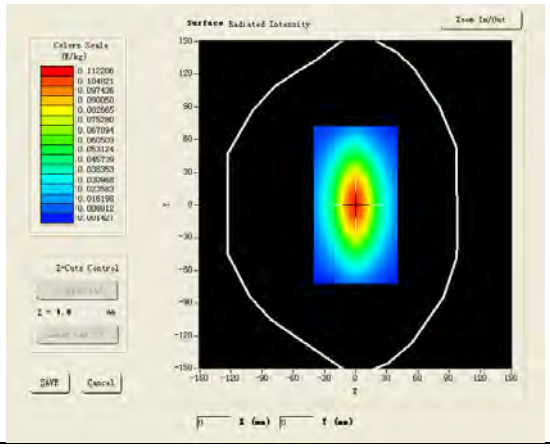
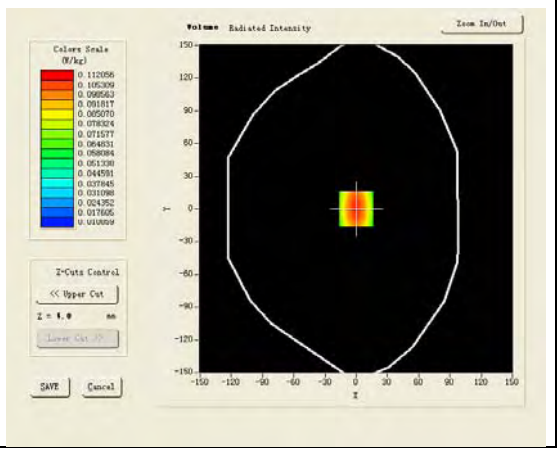
Appendix A. SAR System Validation Data

Test Laboratory: AGC Lab **Date: Mar.21, 2013**
System Check Head 850 MHz
DUT: Dipole 900 MHz Type: SID 900
Communication System CW; Communication System Band: D850 (850.0 MHz); Duty Cycle: 1:1; Conv.F=6.05
Frequency: 850 MHz; Medium parameters used: f = 850 MHz; σ =0.91 mho/m; ε r =41.68; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section ; Input Power=10dBm
Ambient temperature (℃): 21, Liquid temperature (℃): 21

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

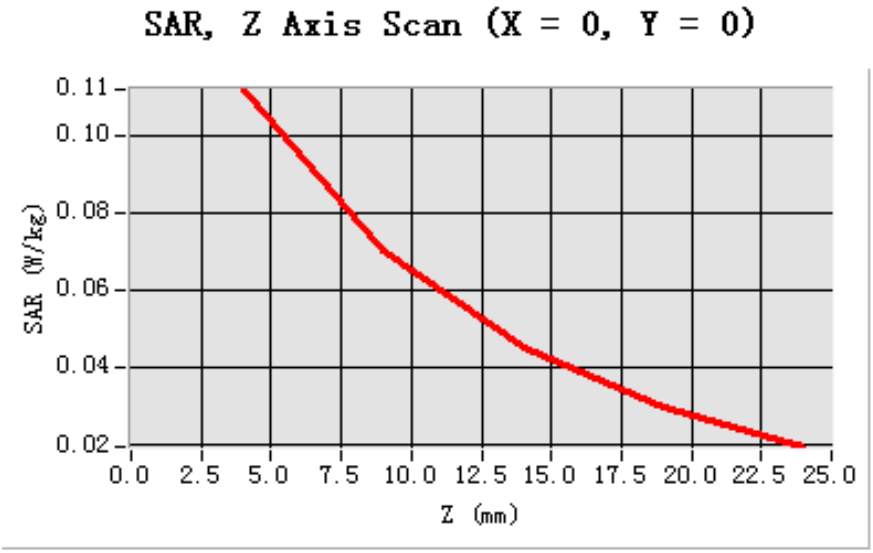
Configuration/System Check GSM850 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm
Configuration/System Check GSM850 Head/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm

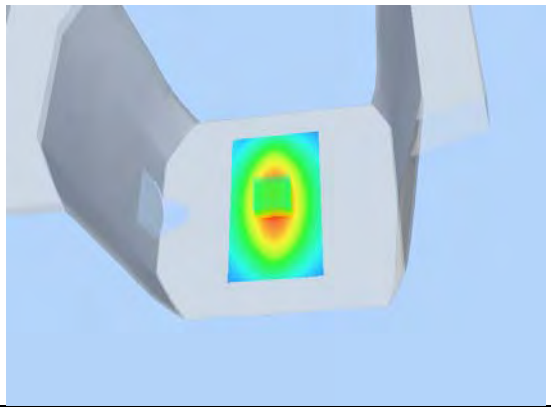
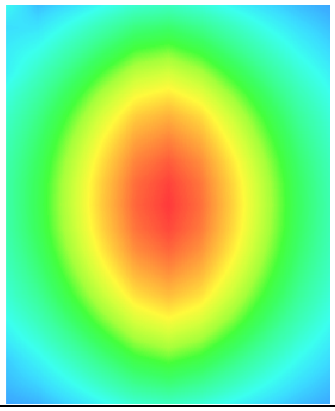
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	0.067895
SAR 1g (W/Kg)	0.110372

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1175	0.0789	0.0421	0.0264

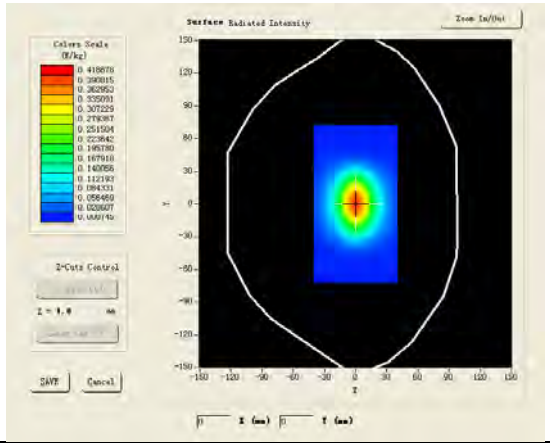
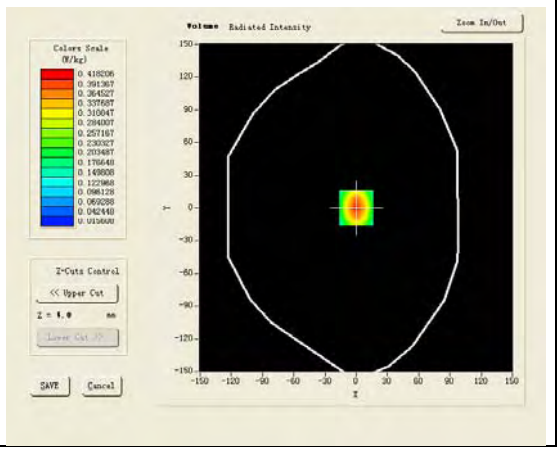


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Mar.21, 2013**
System Check Head 1700MHz
DUT: Dipole 1800 MHz; Type: SID 1800
Communication System: CW; Communication System Band: D1700 (1700.0 MHz); Duty Cycle: 1:1; Conv.F=5.22
Frequency: 1700MHz; Medium parameters used: f = 1700 MHz; σ =1.43 mho/m; ε r =41.36; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (℃): 21, Liquid temperature (℃): 21

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

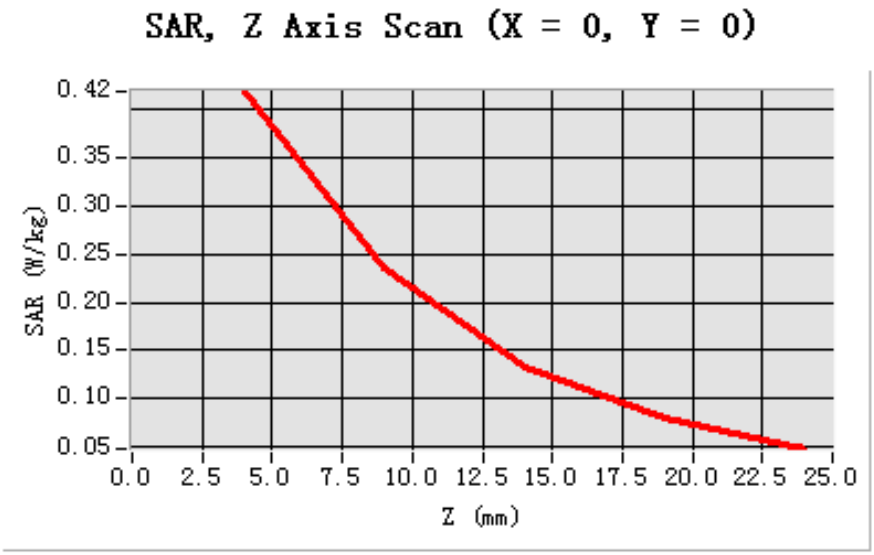
Configuration/System Check WCDMA1700 Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check WCDMA1700 Head/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm

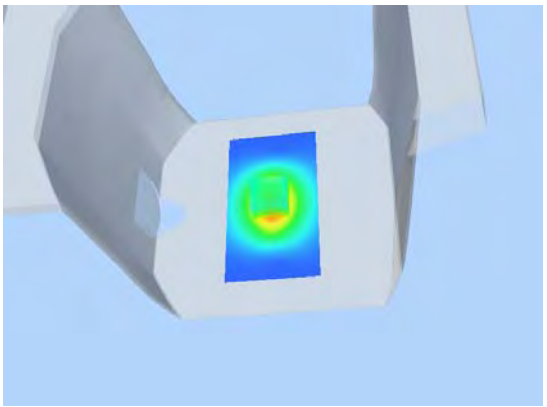
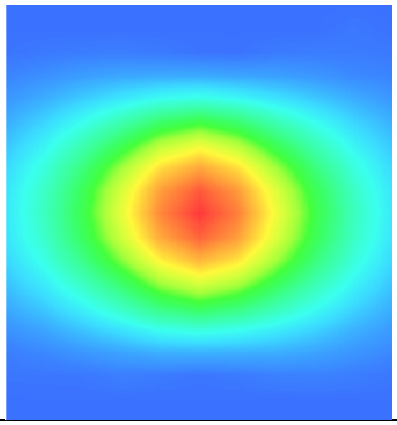
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	0.210410
SAR 1g (W/Kg)	0.390526

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.4182	0.2349	0.1336	0.0803

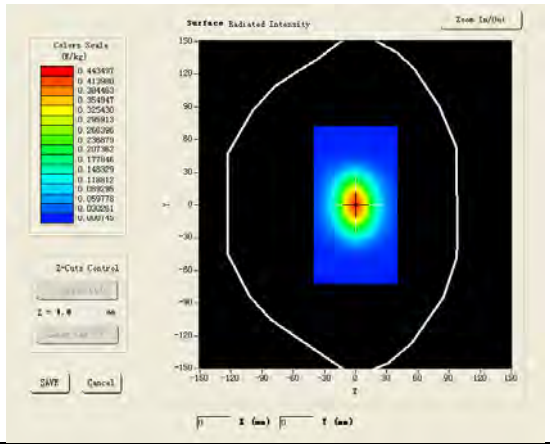
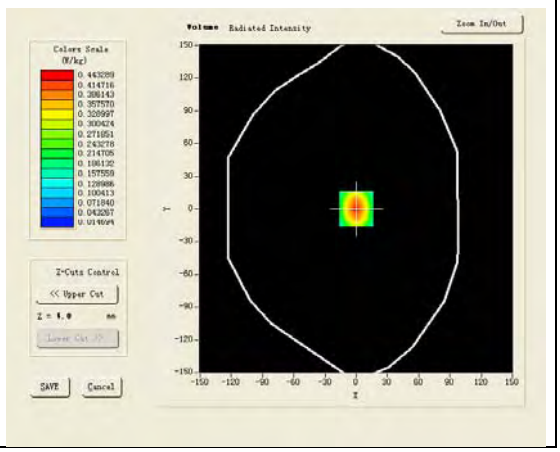


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Mar.21, 2013**
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=5.73
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ =1.39 mho/m; ε r =40.18; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section ; Input Power=10dBm
Ambient temperature (℃): 21, Liquid temperature (℃): 21

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

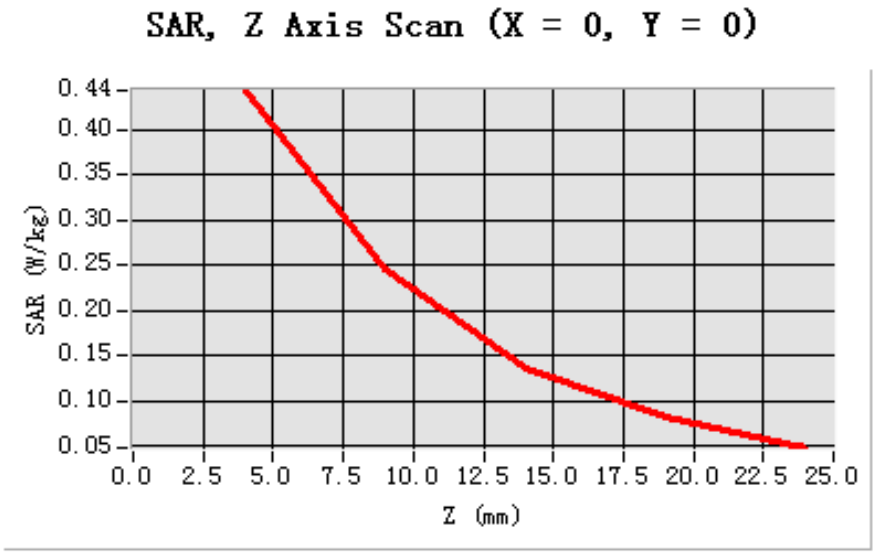
Configuration/System Check PCS1900 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm
Configuration/System Check PCS1900 Head/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm

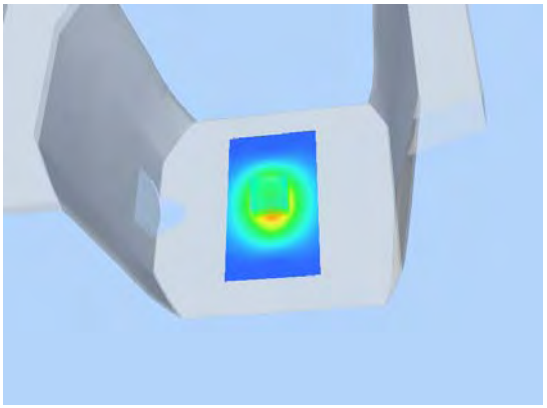
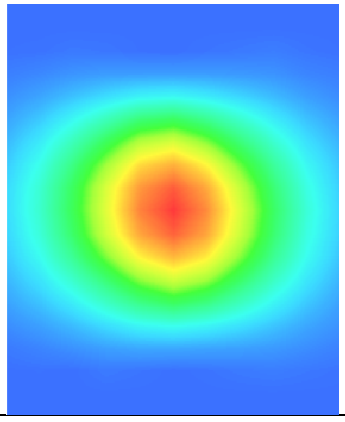
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	0.209792
SAR 1g (W/Kg)	0.411357

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.4433	0.2442	0.1359	0.0808



3D screen shot	Hot spot position
	

Appendix B. SAR measurement Data

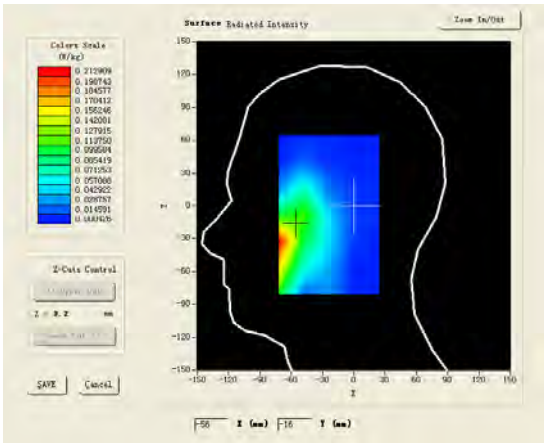
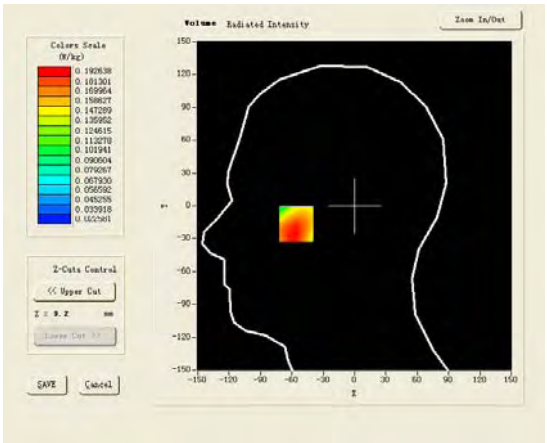
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
GSM 850 Mid-Touch-Left <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=6.05
Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; σ =0.91 mho/m; ε r =41.68; ρ = 1000 kg/m^3 ;
Phantom section: Left Section
Ambient temperature (℃): 21.0, Liquid temperature (℃): 21.0

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/GSM850 Mid-Touch-Left/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm
Configuration/GSM850 Mid-Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

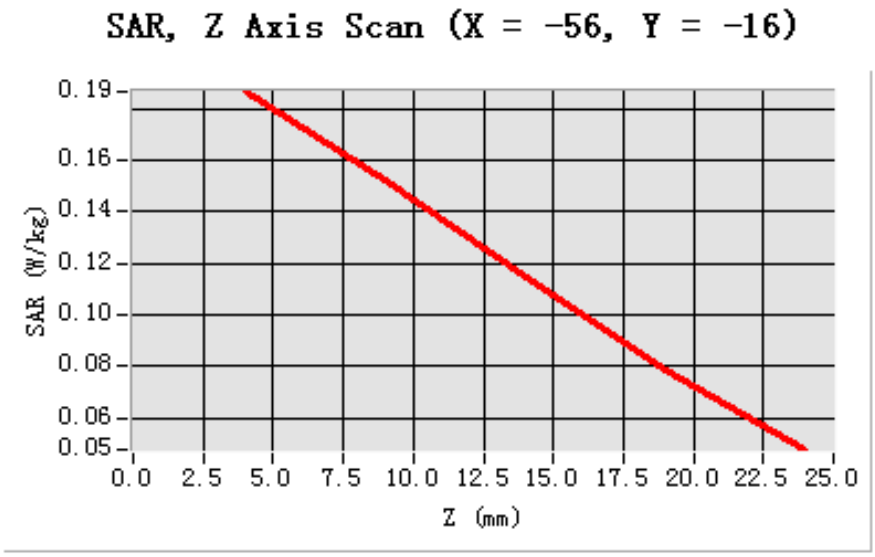
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

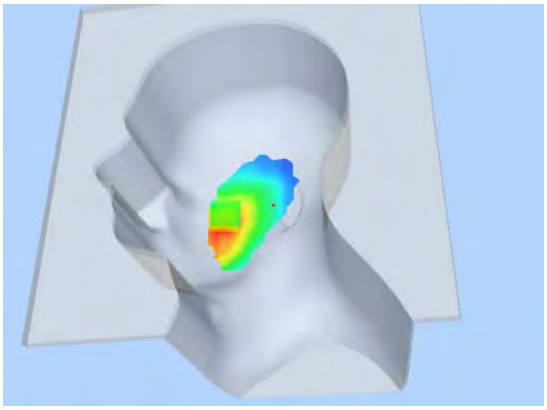
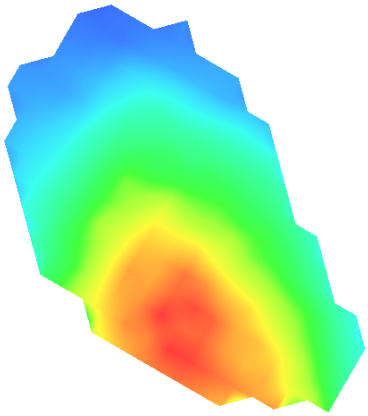
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-56.00, Y=-16.00

SAR 10g (W/Kg)	0.137496
SAR 1g (W/Kg)	0.181537

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1893	0.1548	0.1116	0.0788



3D screen shot	Hot spot position
	

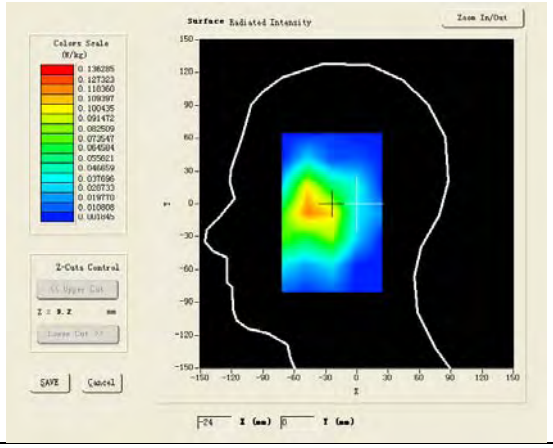
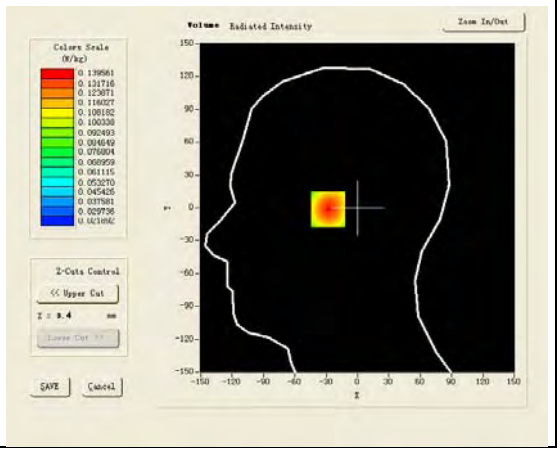
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
GSM 850 Mid-Tilt-Left <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=6.05;
Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; σ =0.91 mho/m; ε r =41.68 ; ρ = 1000 kg/m^3 ;
Phantom section: Left Section
Ambient temperature (℃): 21.0, Liquid temperature(℃): 21.0

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/GSM850 Mid-Tilt-Left/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm
Configuration/GSM850 Mid-Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,dz=5mm;

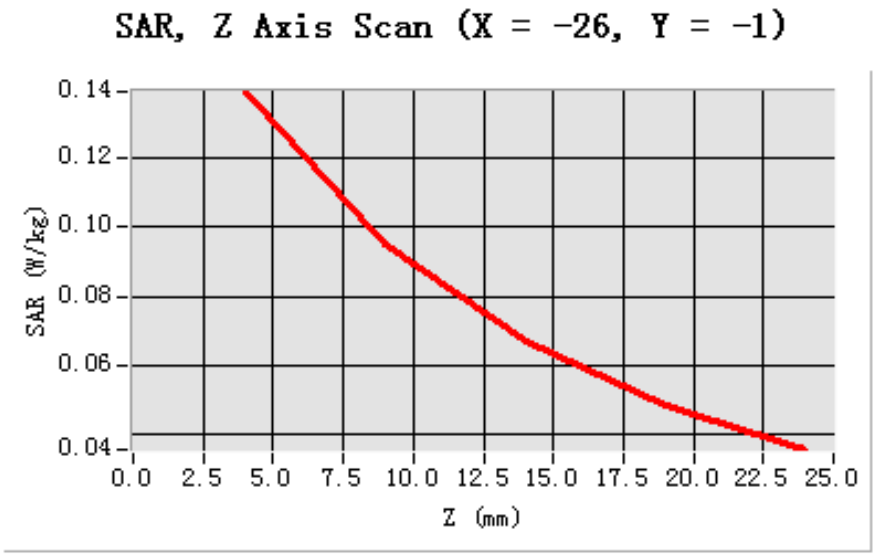
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

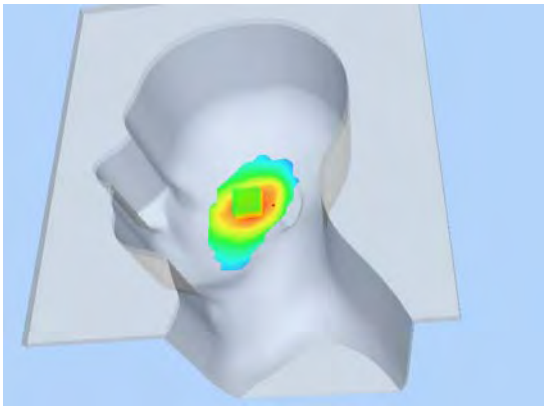
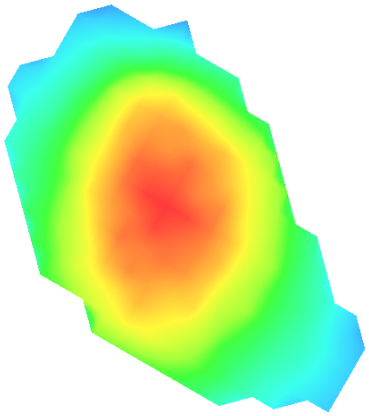
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=-26.00, Y=-1.00

SAR 10g (W/Kg)	0.084269
SAR 1g (W/Kg)	0.134386

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1390	0.0916	0.0637	0.0461



3D screen shot	Hot spot position
	

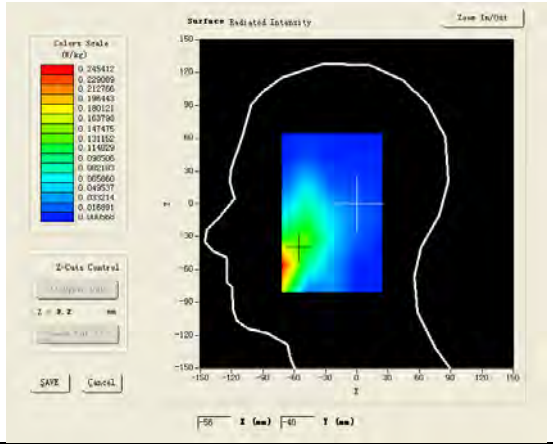
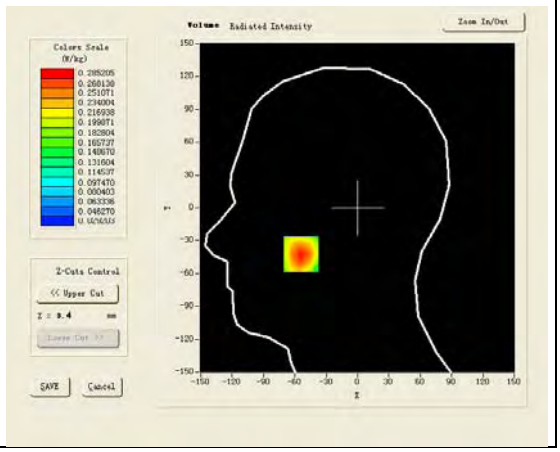
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
GSM 850 Mid-Touch-Right <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=6.05; Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; σ = 0.91 mho/m; ε r = 41.68; ρ = 1000 kg/m^3 ;
Phantom section: Right Section
Ambient temperature (℃): 21.0, Liquid temperature (℃): 21.0

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/GSM850 Mid-Touch-Right/Area Scan: Measurement grid: dx=20mm, dy=20mm
Configuration/GSM850 Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

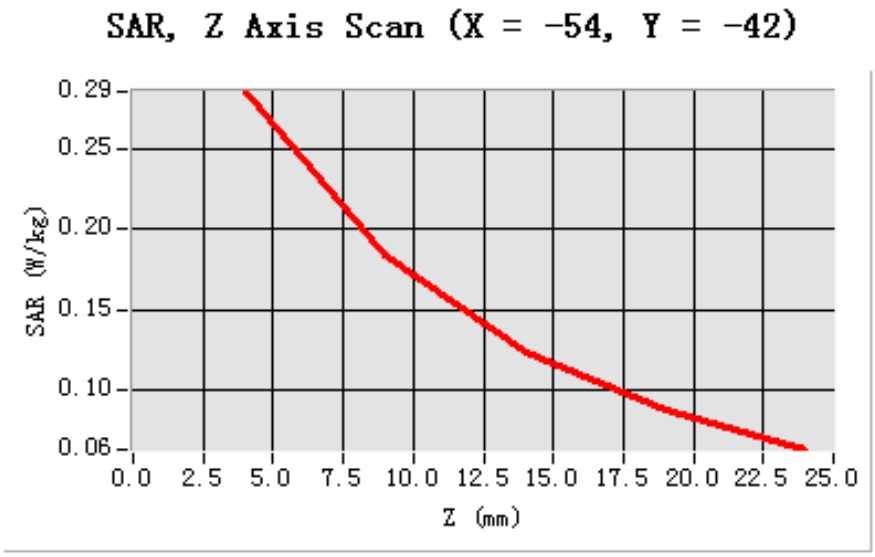
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

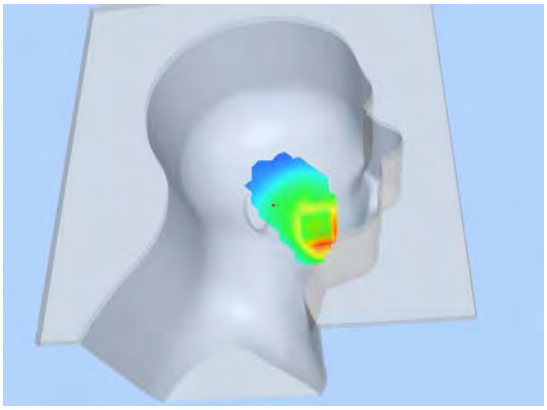
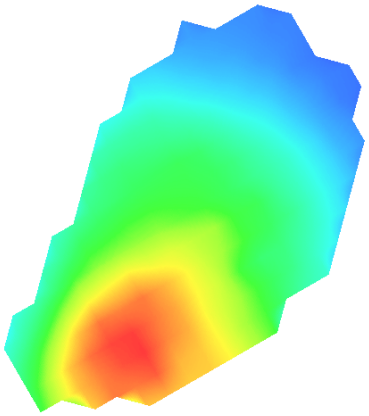
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=-54.00, Y=-42.00

SAR 10g (W/Kg)	0.179672
SAR 1g (W/Kg)	0.274869

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2852	0.1836	0.1251	0.0875



3D screen shot	Hot spot position
	

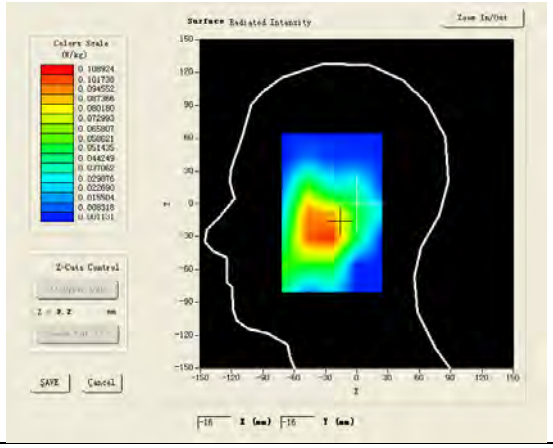
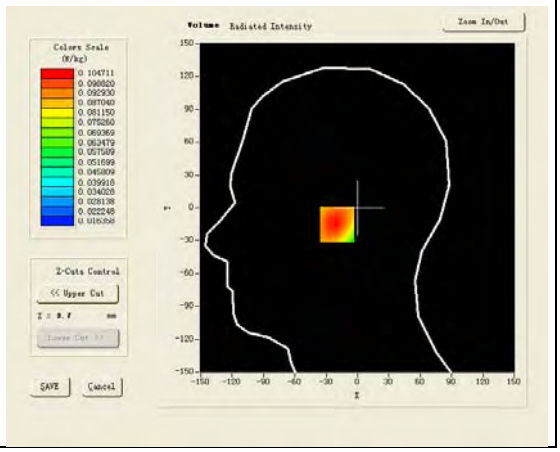
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
GSM 850 Mid-Tilt-Right <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=6.05;
Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; σ =0.91 mho/m; ε r =41.68 ; ρ = 1000 kg/m^3 ;
Phantom section: Right Section
Ambient temperature (℃): 21.0, Liquid temperature (℃): 21.0

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/GSM850 Mid-Tilt-Right/Area Scan: Measurement grid: dx=20mm, dy=20mm
Configuration/GSM850 Mid-Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

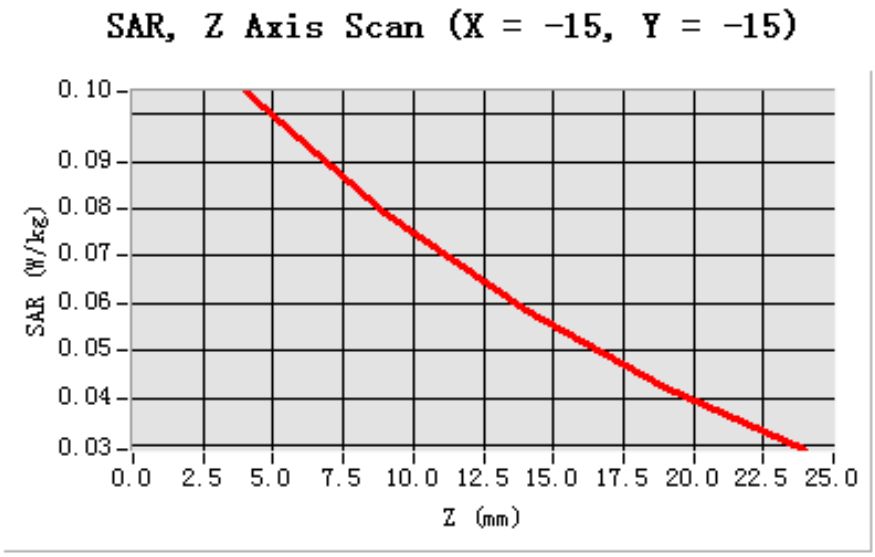
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

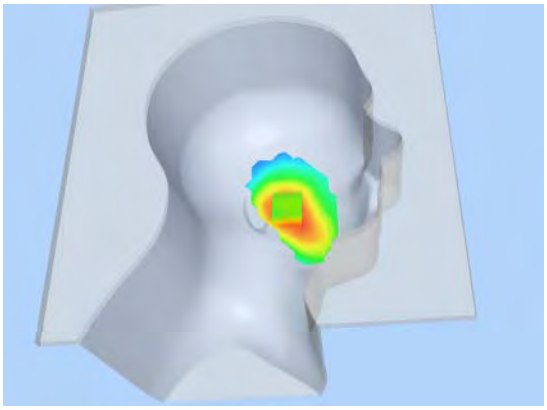
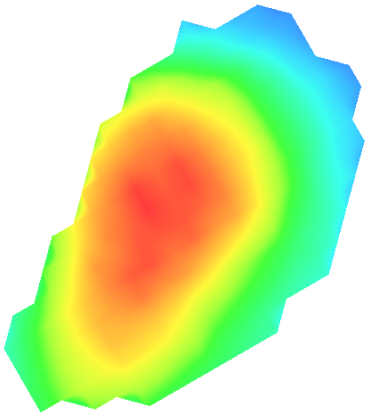
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.079045
SAR 1g (W/Kg)	0.105347

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1099	0.0774	0.0583	0.0421



3D screen shot	Hot spot position
	

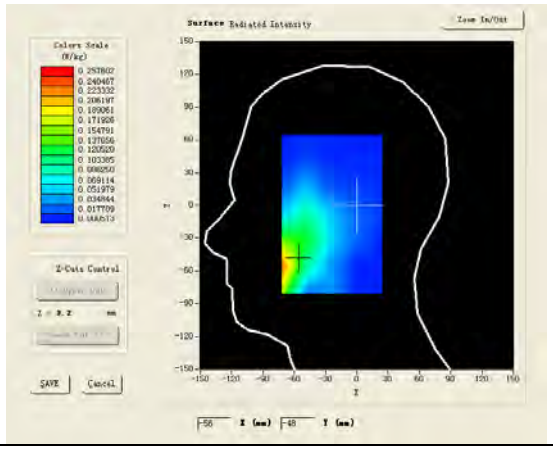
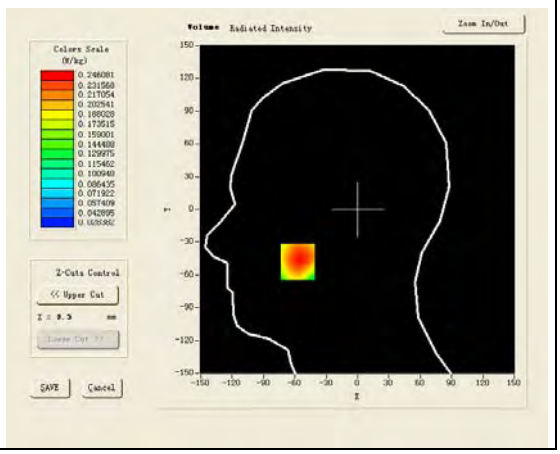
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
GSM 850 Mid-Touch-Right <SIM 2>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=6.05
Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; σ =0.91 mho/m; ε r =41.68; ρ = 1000 kg/m^3 ;
Phantom section: Right Section
Ambient temperature (℃): 21.0, Liquid temperature (℃): 21.0

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/GSM850 Mid-Touch-Right/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm
Configuration/GSM850 Mid-Touch-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

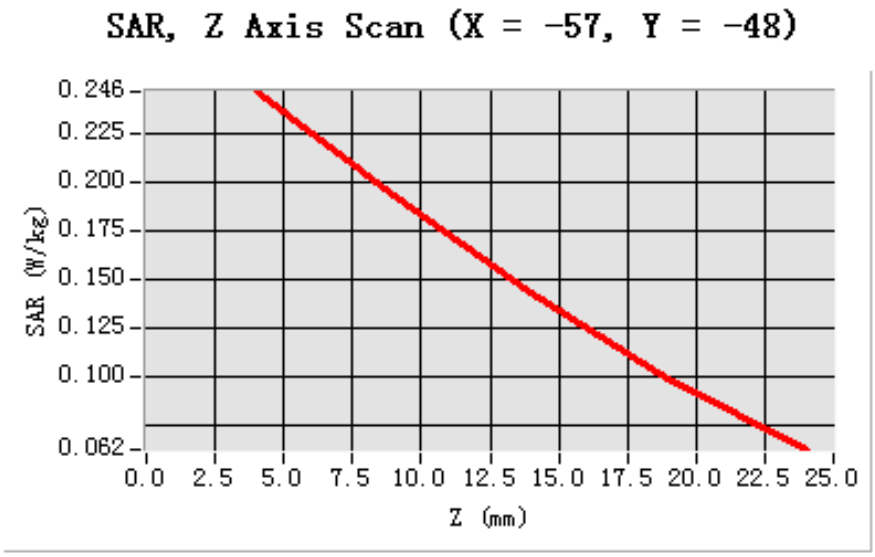
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

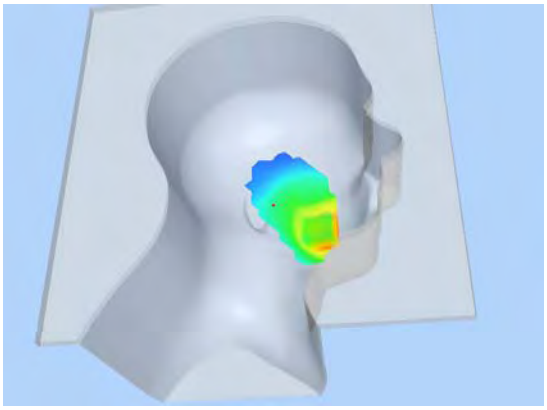
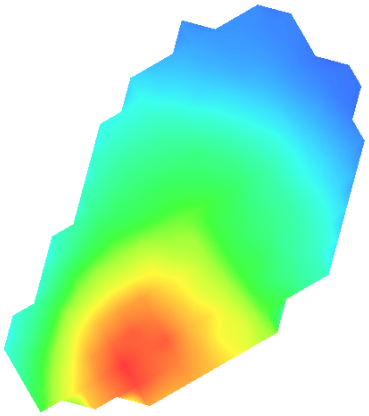
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.164672
SAR 1g (W/Kg)	0.234860

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2458	0.1926	0.1463	0.0947



3D screen shot	Hot spot position
	

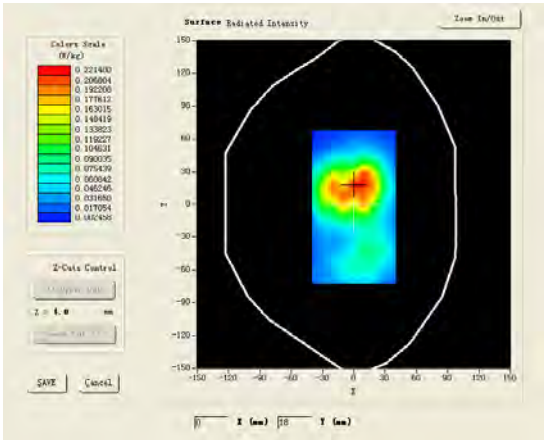
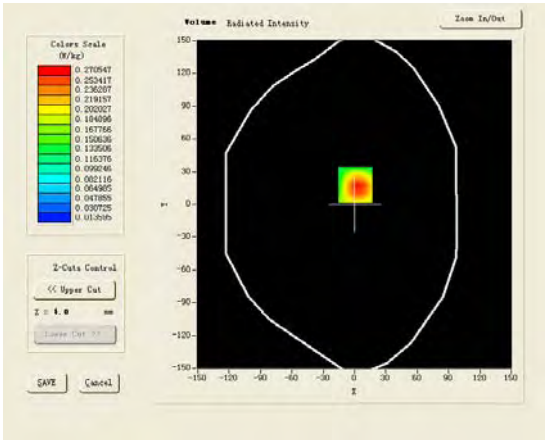
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
GPRS 850 Mid- Body - Back (2up) <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: GPRS -2 Slot; Communication System Band: GSM850; Duty Cycle: 1:4.2; Conv.F=6.05;
Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; σ = 0.98 mho/m; ε r = 53.45; ρ = 1000kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 21.0, Liquid temperature (℃): 21.0

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/GPRS850 Mid-Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm
Configuration/GPRS850 Mid-Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

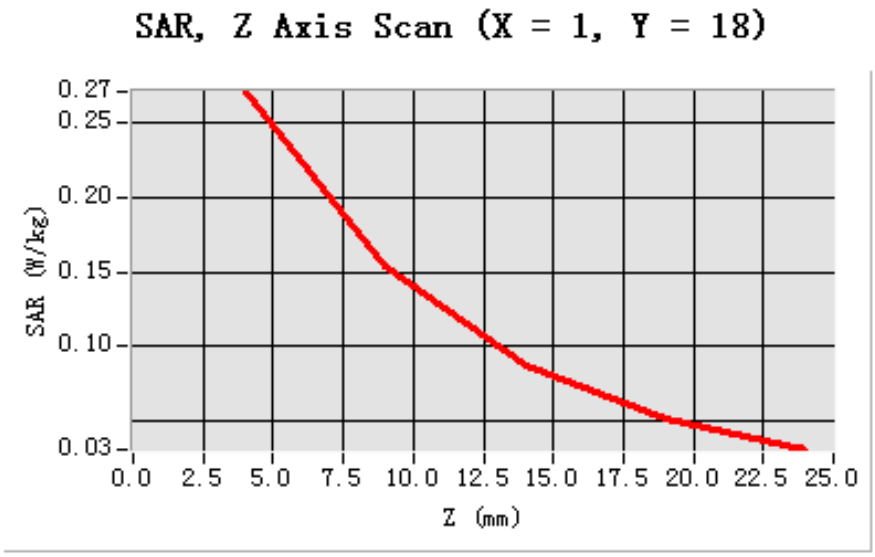
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Back
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 4.0)

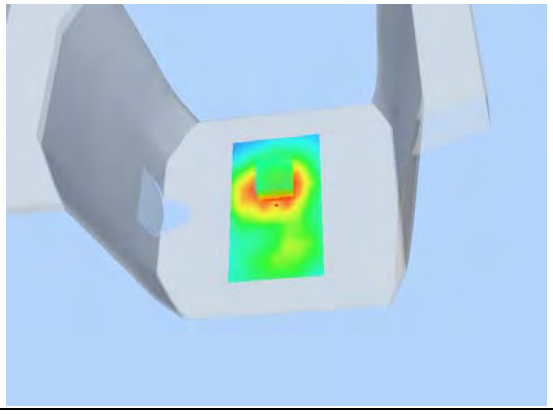
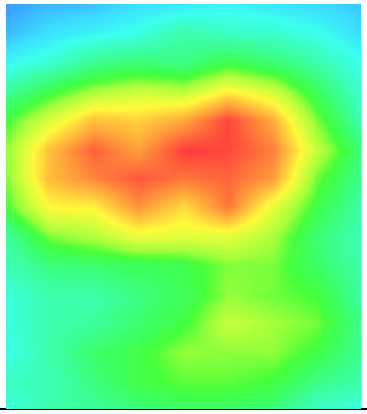
SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=18.00

SAR 10g (W/Kg)	0.150873
SAR 1g (W/Kg)	0.285783

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2788	0.1557	0.0876	0.0524



3D screen shot	Hot spot position
	

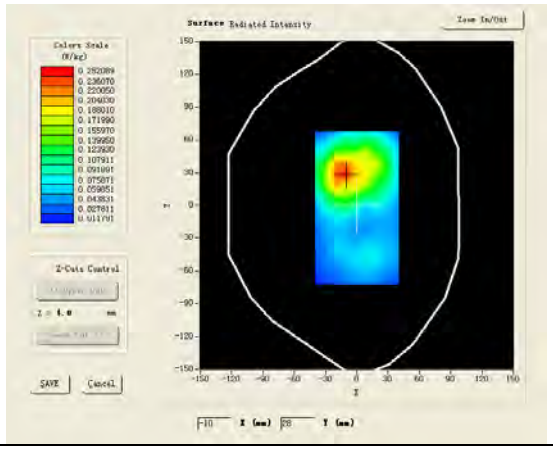
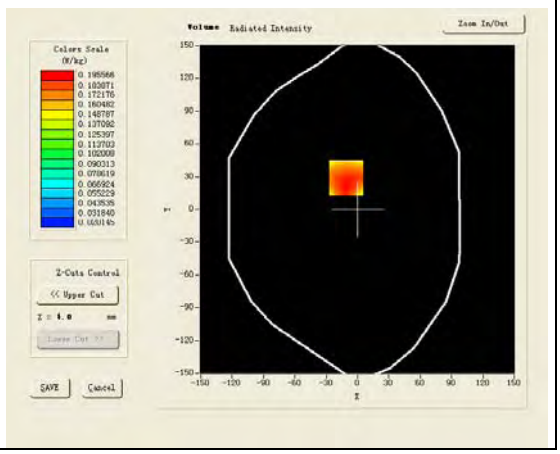
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
GPRS 850 Mid- Body- Front (2up) <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: GPRS -2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Conv.F=6.05;
Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; σ = 0.98mho/m; ε r = 53.45; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 21.0, Liquid temperature (℃): 21.0

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/GPRS850 Mid-Body- Front /Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm
Configuration/GPRS850 Mid-Body- Front Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

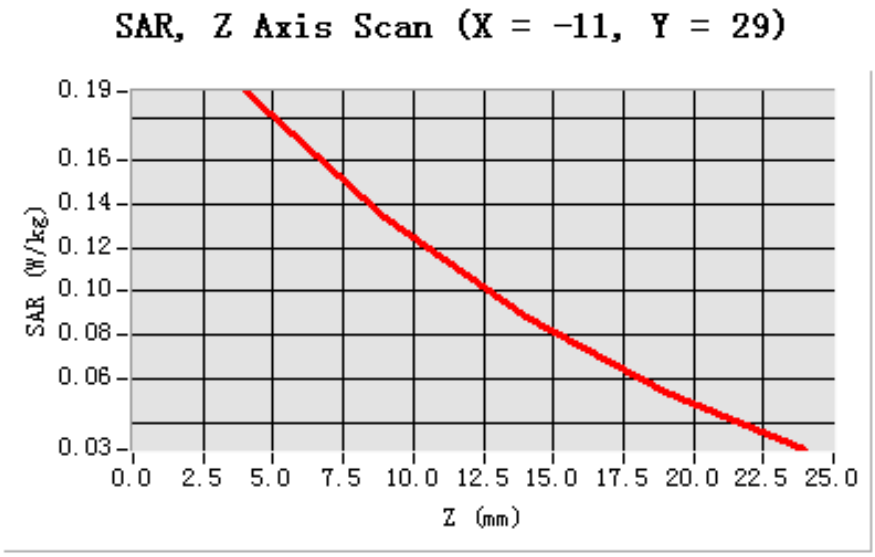
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Front
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 4.0)

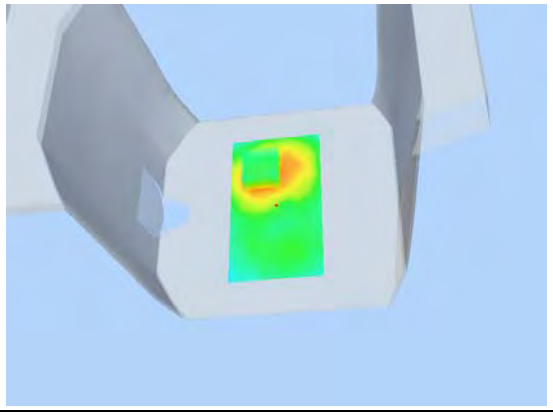
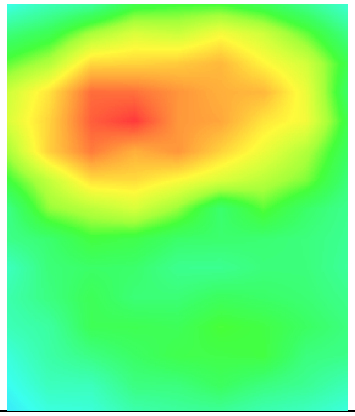
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-11.00, Y=29.00

SAR 10g (W/Kg)	0.139056
SAR 1g (W/Kg)	0.207588

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1972	0.1348	0.0858	0.0523



3D screen shot	Hot spot position
	

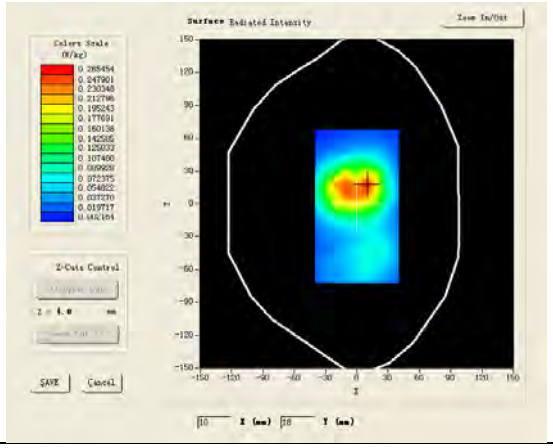
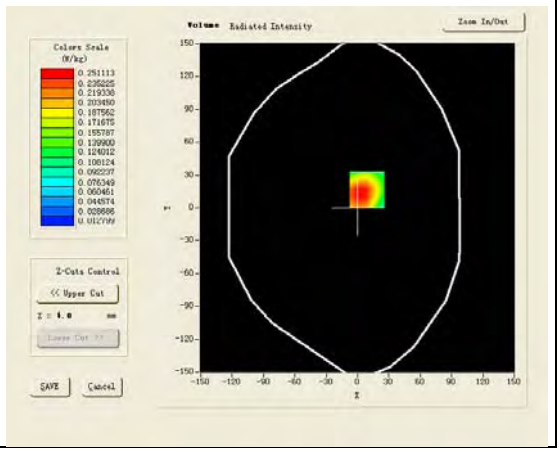
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
GPRS 850 Mid- Body- Back (2up) - with earphone <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: GPRS -2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Conv.F=6.05;
Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; σ = 0.98mho/m; ε r = 53.45; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 21.0, Liquid temperature (℃): 21.0

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/GPRS850 Mid-Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm
Configuration/GPRS850 Mid-Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

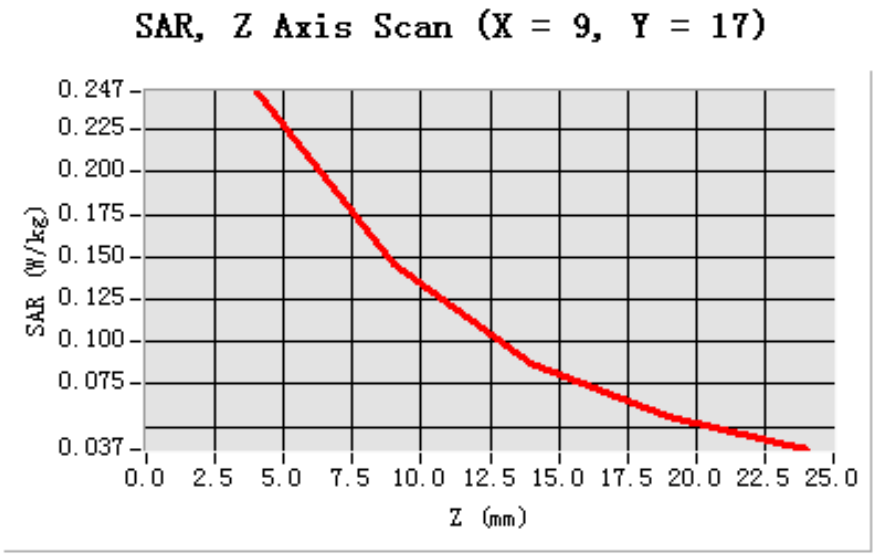
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Back
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 4.0)

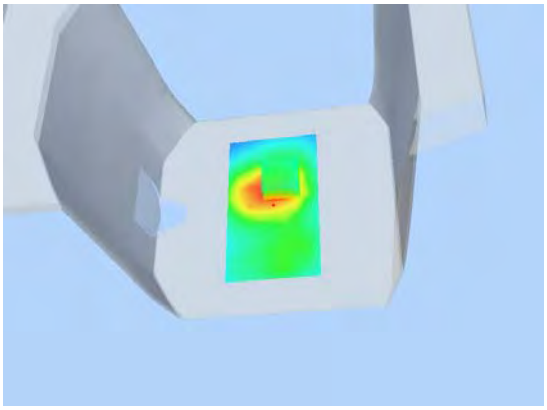
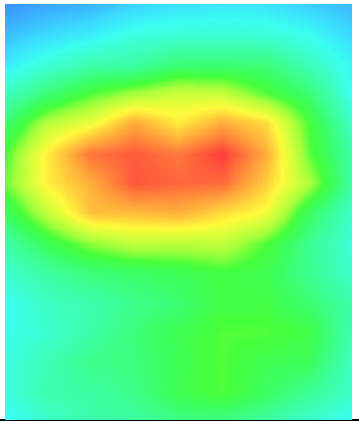
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=9.00, Y=17.00

SAR 10g (W/Kg)	0.154650
SAR 1g (W/Kg)	0.263487

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2438	0.1475	0.0879	0.0564



3D screen shot	Hot spot position
	

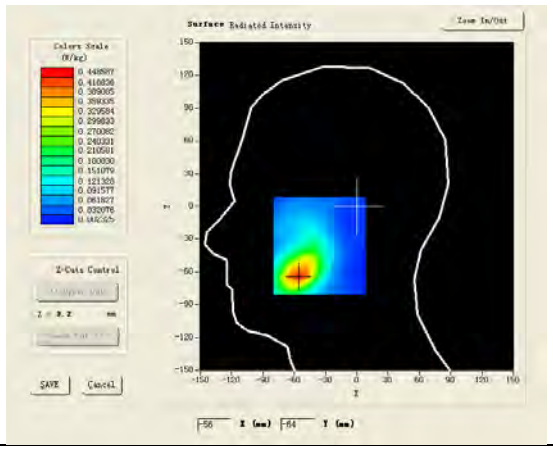
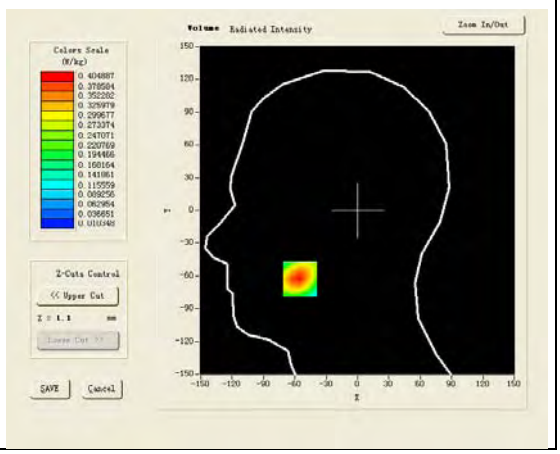
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
PCS 1900 Mid-Touch-Left <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=5.73;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ = 1.39 mho/m; ε r =40.18; ρ = 1000 kg/m^3 ;
Phantom section: Left Section
Ambient temperature (℃): 21.0, Liquid temperature (℃): 21.0

Satimo Configuration:
- Probe: EP159; Calibrated: 12/11/2012
- 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;

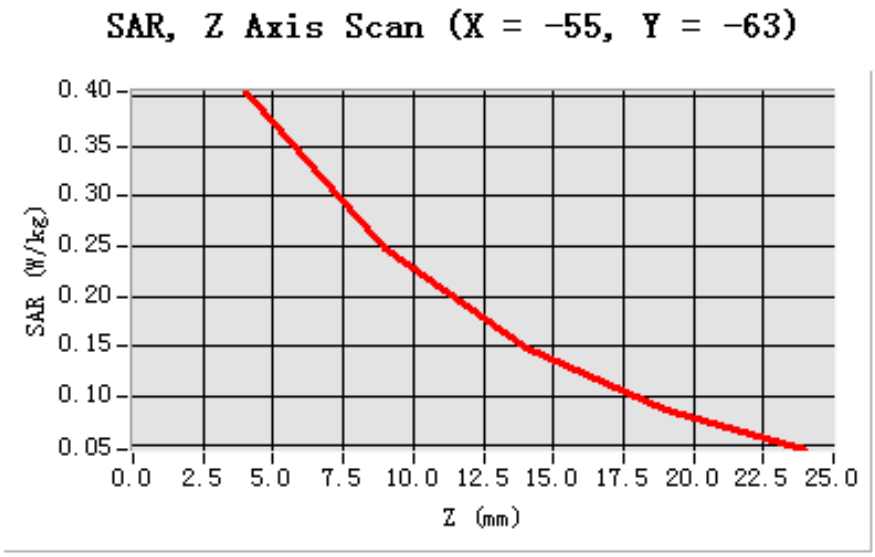
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Cheek
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

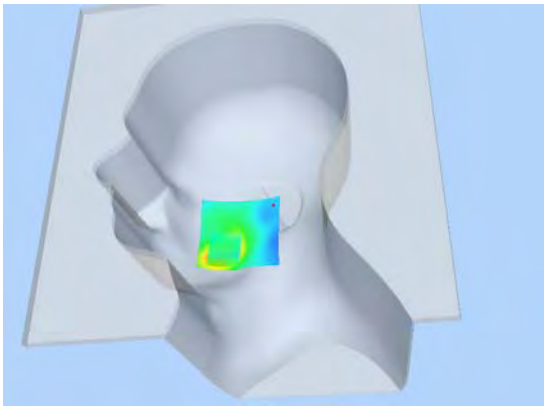
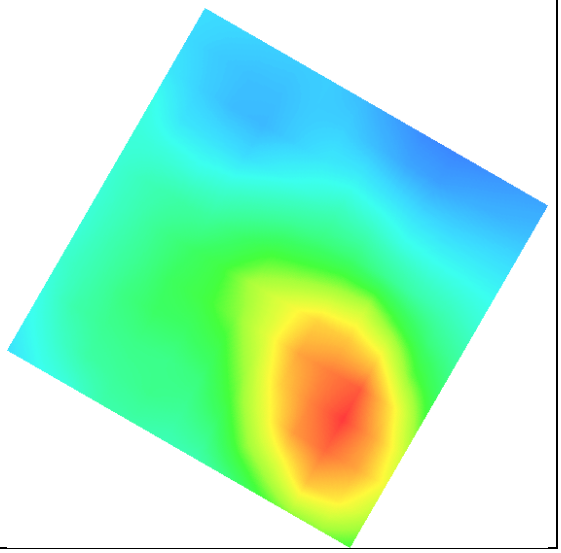
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-55.00, Y=-63.00

SAR 10g (W/Kg)	0.219783
SAR 1g (W/Kg)	0.384537

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.4050	0.2458	0.1493	0.0874



3D screen shot	Hot spot position
	

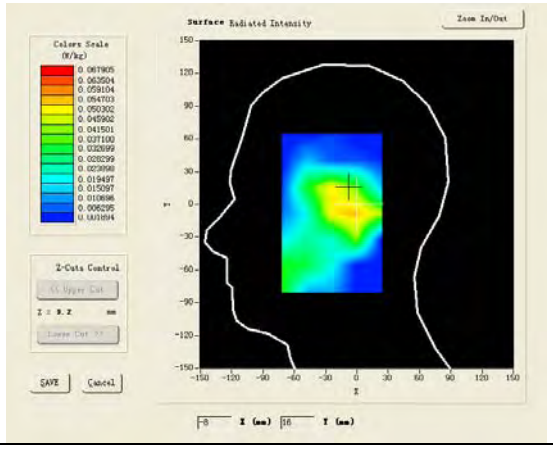
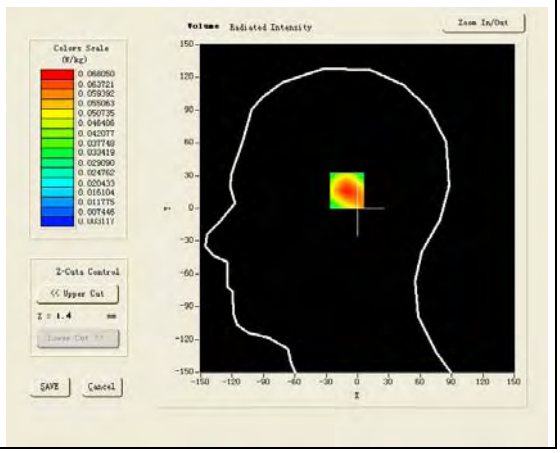
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
PCS 1900 Mid-Tilt-Left <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=5.73; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ = 1.39 mho/m; ε r =40.18; ρ = 1000 kg/m^3 ;
Phantom section: Left Section
Ambient temperature (℃): 21.0, Liquid temperature (℃): 21.0

Satimo Configuration:
- Probe:EP159; Calibrated: 12/11/2012
- 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;

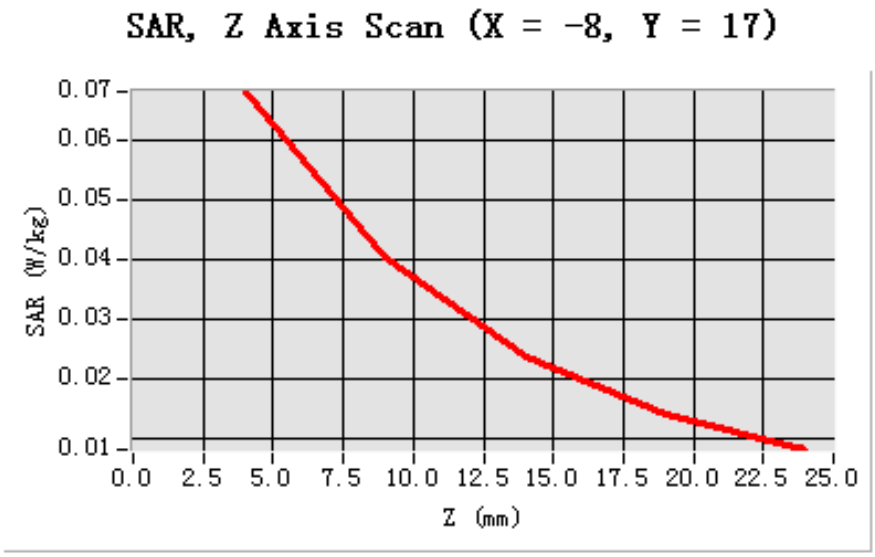
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Tilt
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

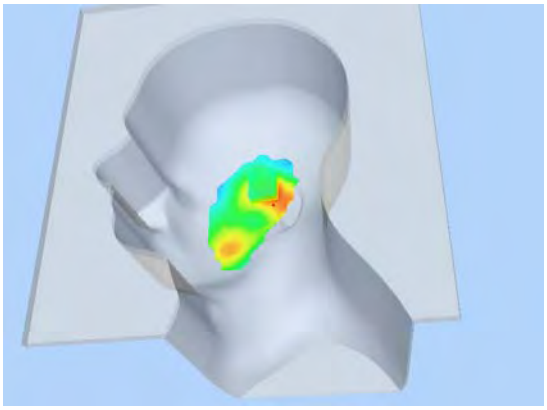
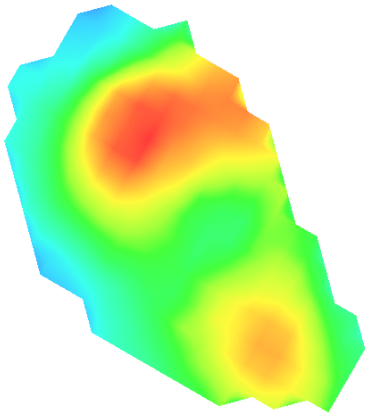
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=-8.00, Y=17.00

SAR 10g (W/Kg)	0.038566
SAR 1g (W/Kg)	0.064369

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0686	0.0475	0.0239	0.0144



3D screen shot	Hot spot position
	

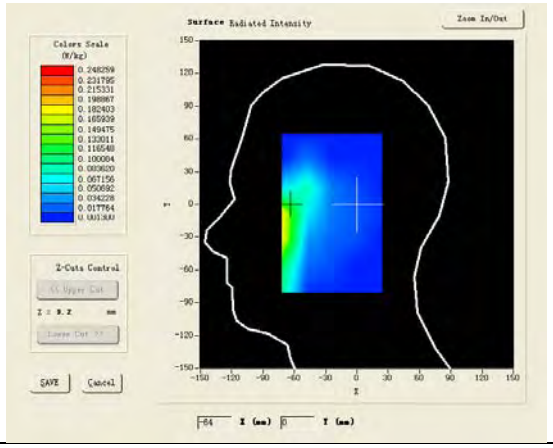
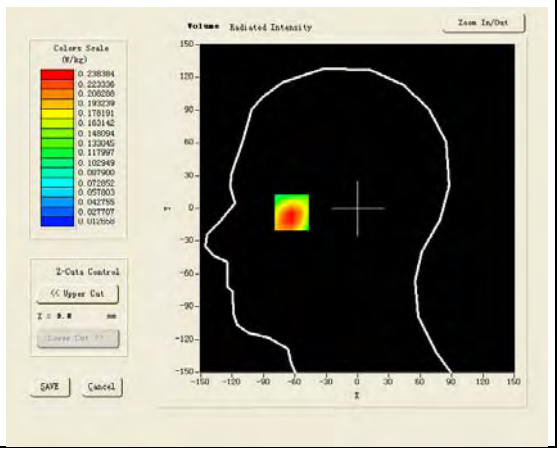
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
PCS 1900 Mid-Touch-Right <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=5.73; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ = 1.39 mho/m; ε r =40.18; ρ = 1000 kg/m^3 ;
Phantom section: Right Section
Ambient temperature (℃): 21.0, Liquid temperature (℃): 21.0

Satimo Configuration:
- Probe: EP159; Calibrated: 12/11/2012
- 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;

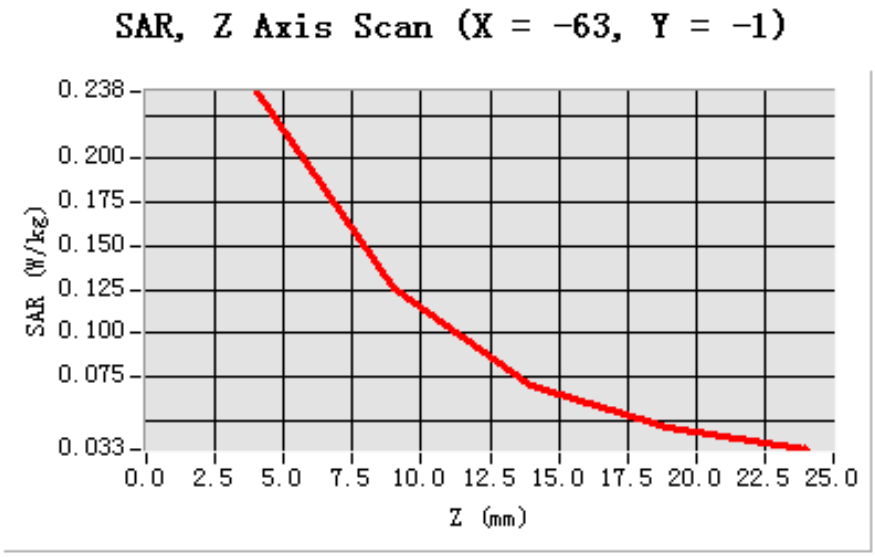
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Cheek
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

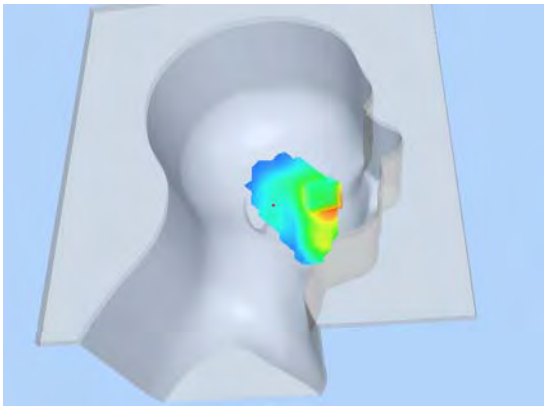
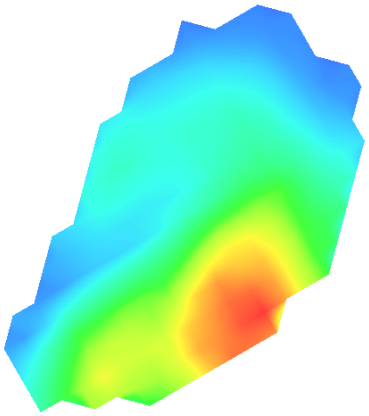
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-63.00, Y=-1.00

SAR 10g (W/Kg)	0.135860
SAR 1g (W/Kg)	0.237522

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2372	0.1259	0.0707	0.0462



3D screen shot	Hot spot position
	

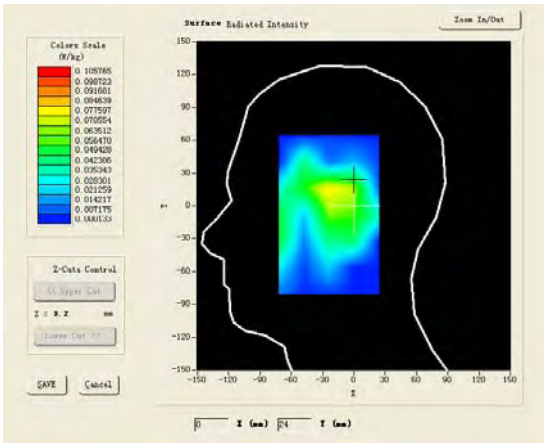
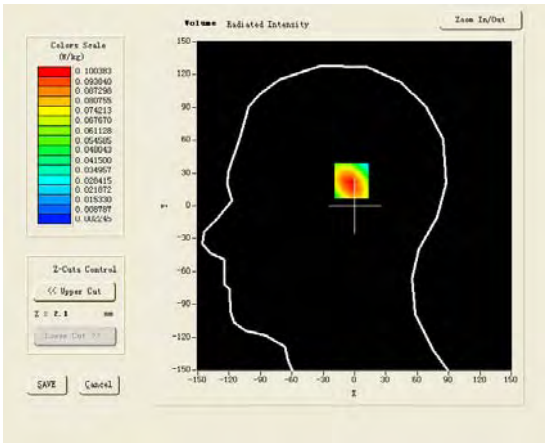
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
PCS 1900 Mid-Tilt-Right <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=5.73;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ = 1.39 mho/m; ε r =40.18; ρ = 1000 kg/m^3 ;
Phantom section: Right Section
Ambient temperature (℃): 21.0, Liquid temperature (℃): 21.0

Satimo Configuration:
- Probe: EP159; Calibrated: 12/11/2012
- 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;

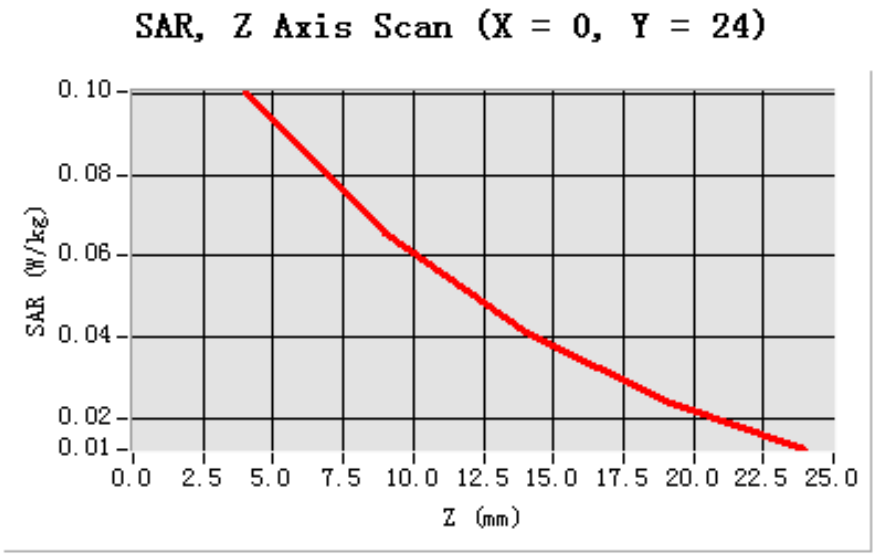
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Tilt
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

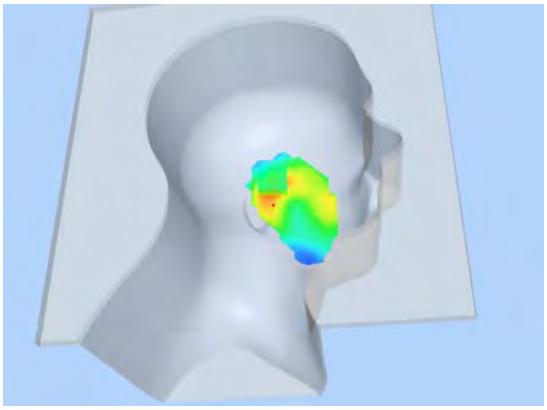
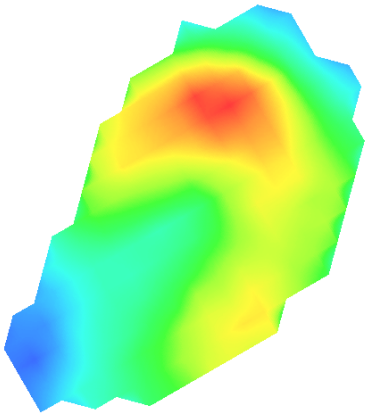
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=24.00

SAR 10g (W/Kg)	0.059045
SAR 1g (W/Kg)	0.096871

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1064	0.0673	0.0448	0.0244



3D screen shot	Hot spot position
	

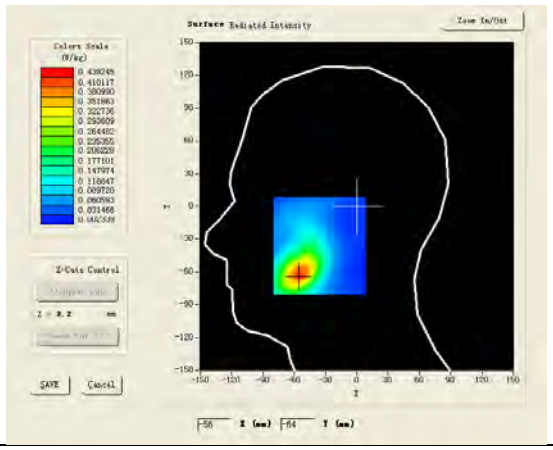
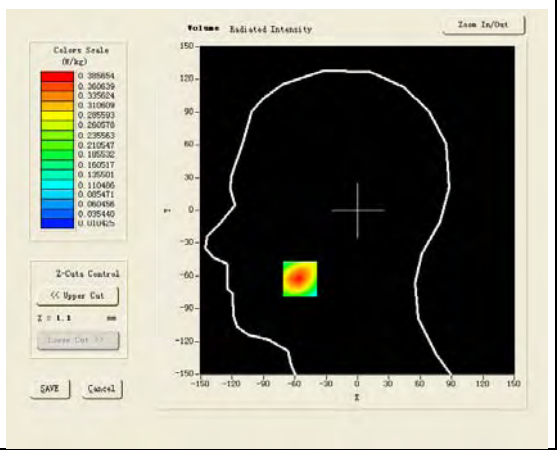
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
PCS 1900 Mid-Touch-Left <SIM 2>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=5.73;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ = 1.39 mho/m; ε r =40.18; ρ = 1000 kg/m^3 ;
Phantom section: Left Section
Ambient temperature (℃): 21.0, Liquid temperature (℃): 21.0

Satimo Configuration:
- Probe: EP159; Calibrated: 12/11/2012
- 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;

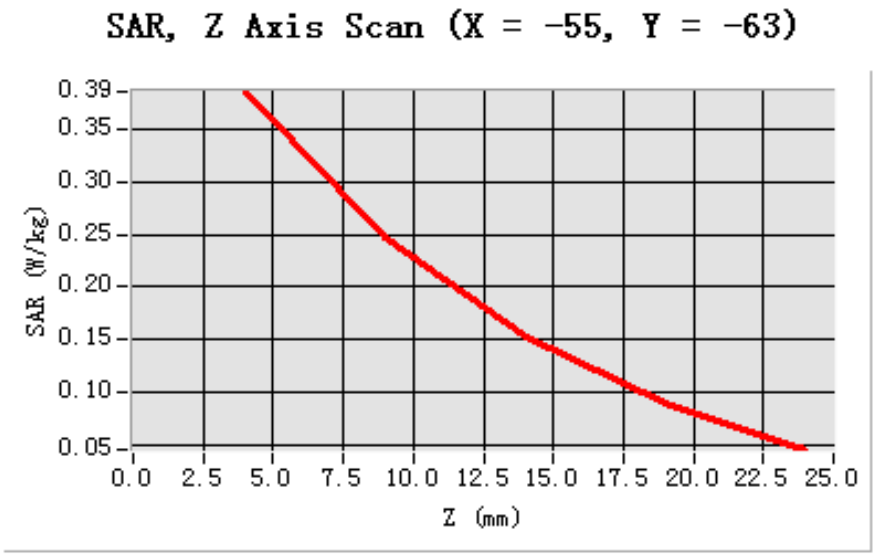
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Cheek
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

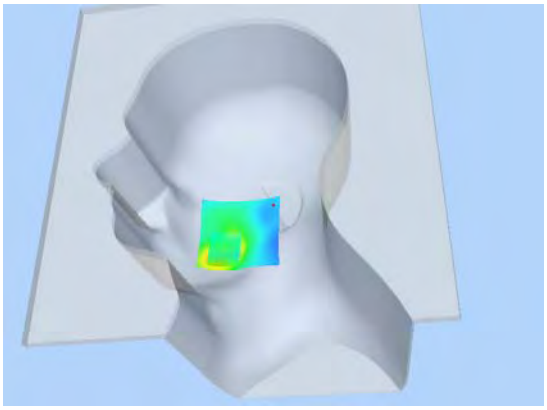
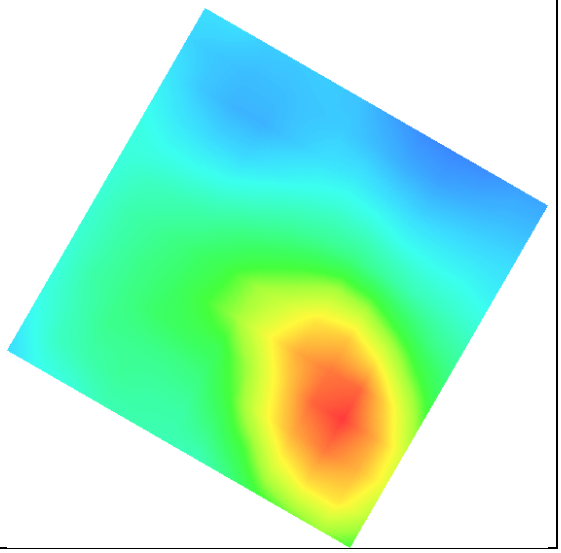
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-55.00, Y=-63.00

SAR 10g (W/Kg)	0.200784
SAR 1g (W/Kg)	0.369758

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3837	0.2448	0.1523	0.0888



3D screen shot	Hot spot position
	

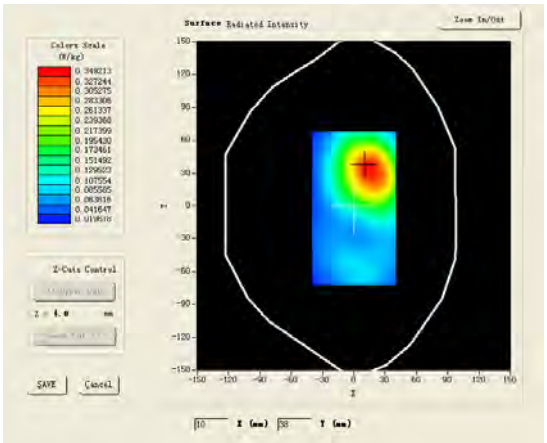
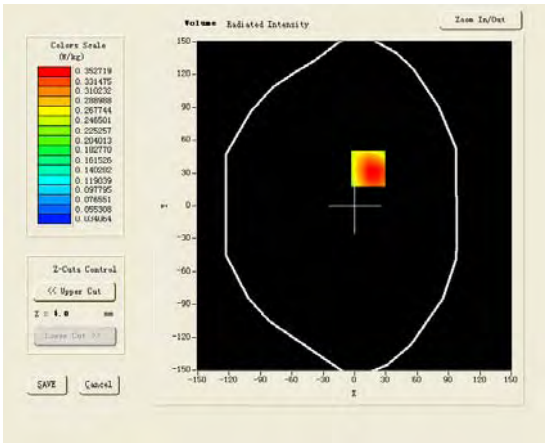
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
GPRS 1900 Mid-Body-Back (3up) <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: GPRS-3 Slot; Communication System Band: PCS 1900; Duty Cycle:1:2.8 ; Conv.F=5.73;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ = 1.50 mho/m; ε r =52.73 ; ρ = 1000kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 21.0, Liquid temperature (℃): 21.0

Satimo Configuration:
- Probe: EP159; Calibrated: 12/11/2012
- 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=5mm;

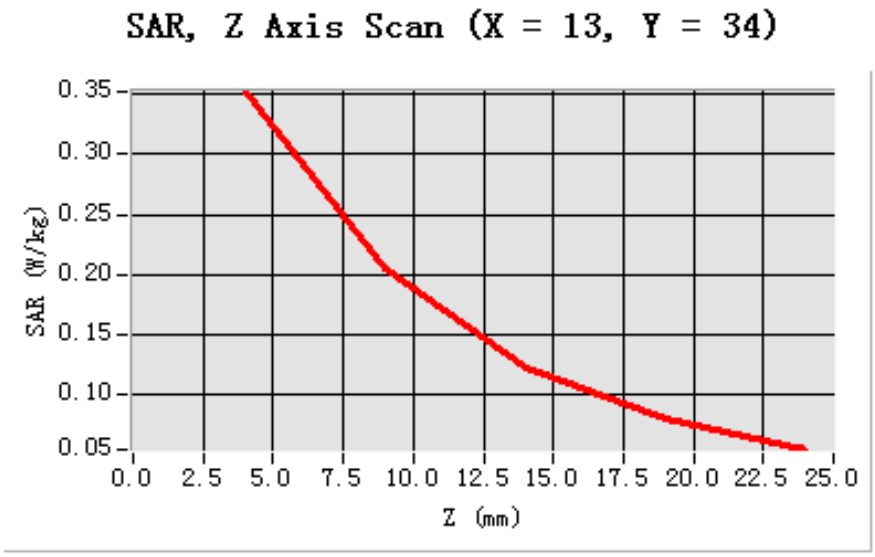
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Back
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 2.7)

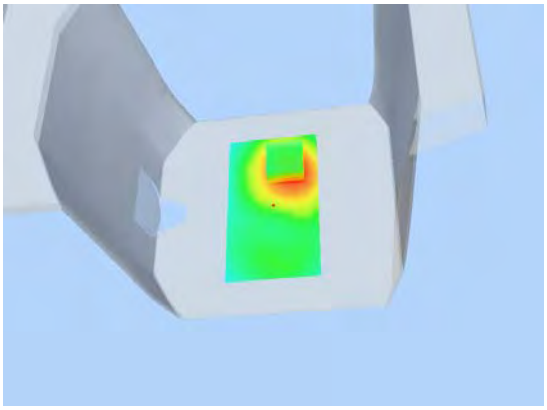
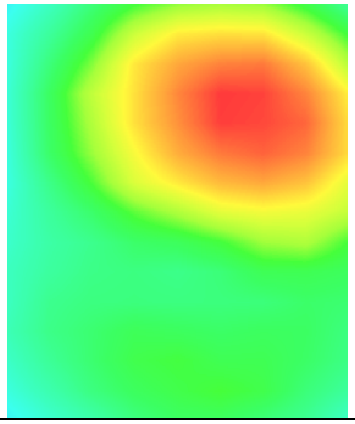
SURFACE SAR	VOLUME SAR
	

Maximum location: X=13.00, Y=34.00

SAR 10g (W/Kg)	0.223785
SAR 1g (W/Kg)	0.379053

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3563	0.2047	0.1297	0.0807



3D screen shot	Hot spot position
	

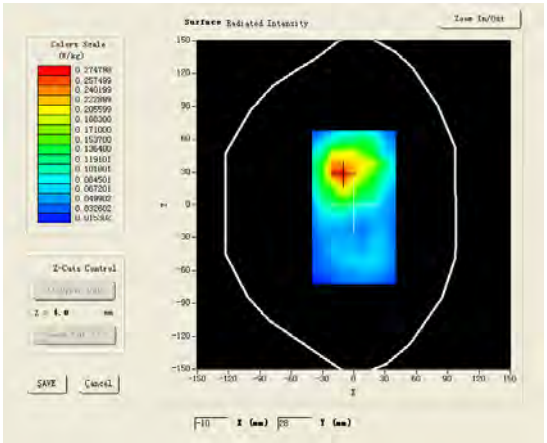
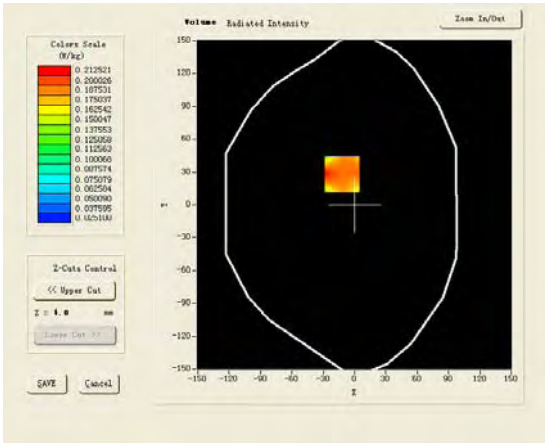
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
GPRS 1900 Mid-Body -Front (3up) <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: GPRS-3 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.8; Conv.F=5.73; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ = 1.50 mho/m; ε r =52.73; ρ = 1000 kg/m^3 ; Phantom section: Flat Section
Ambient temperature (℃): 21.0, Liquid temperature (℃): 21.0

Satimo Configuration:
- Probe: EP159; Calibrated: 12/11/2012
- 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=5mm;

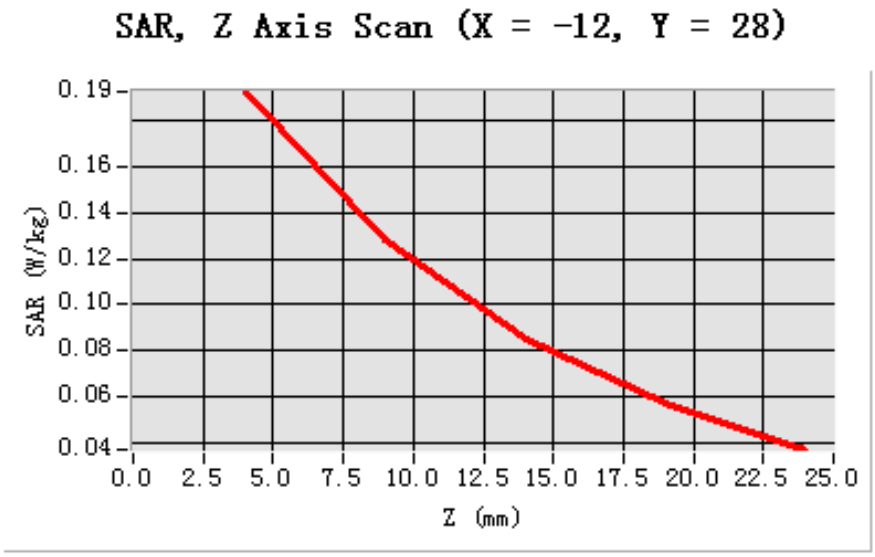
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Front
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 2.7)

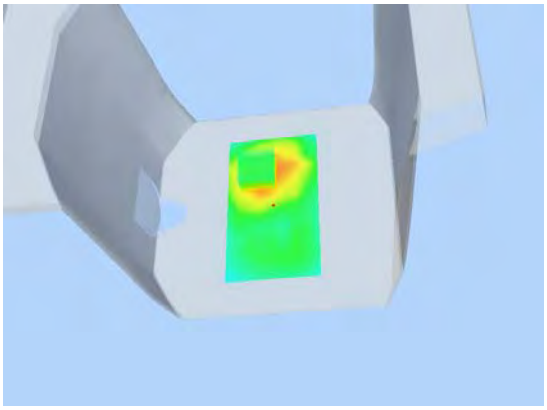
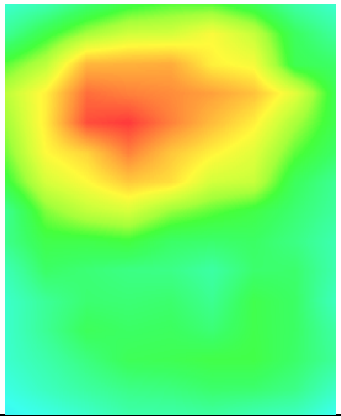
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-12.00, Y=28.00

SAR 10g (W/Kg)	0.139033
SAR 1g (W/Kg)	0.214647

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1947	0.1285	0.0894	0.0561



3D screen shot	Hot spot position
	

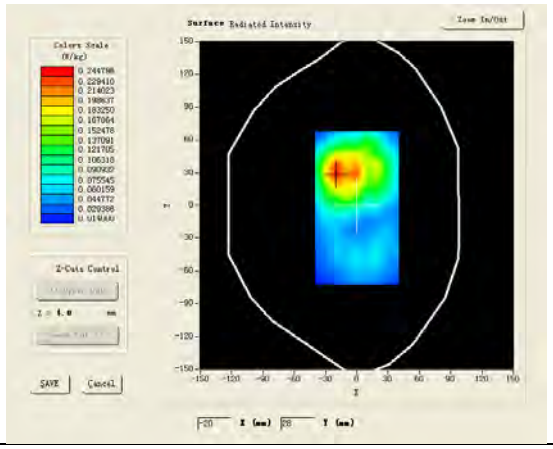
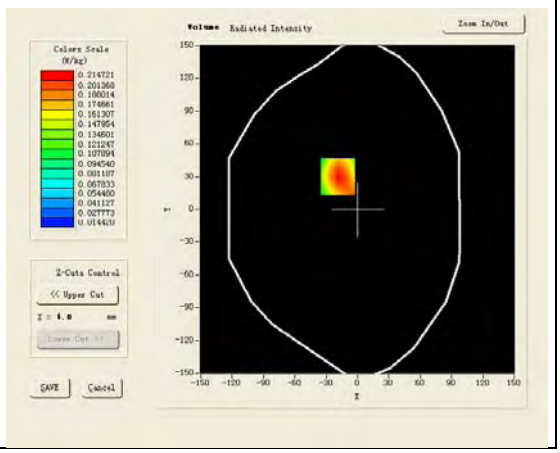
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
GPRS 1900 Mid-Body- Back (3up) - with earphone <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: GPRS-3 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.8; Conv.F=5.73; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ = 1.50 mho/m; ε r =52.73; ρ = 1000 kg/m^3 ; Phantom section: Flat Section
Ambient temperature (℃): 21.0, Liquid temperature (℃): 21.0

Satimo Configuration:
- Probe: EP159; Calibrated: 12/11/2012
- 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=5mm;

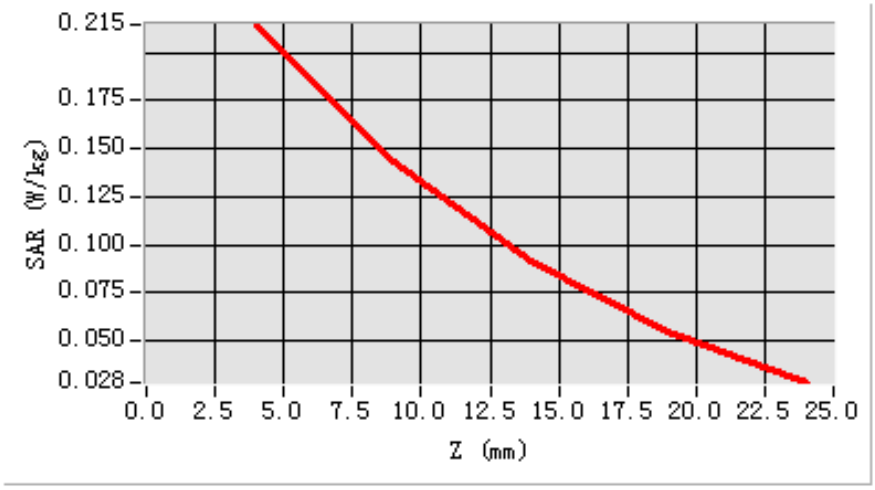
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Back
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 2.7)

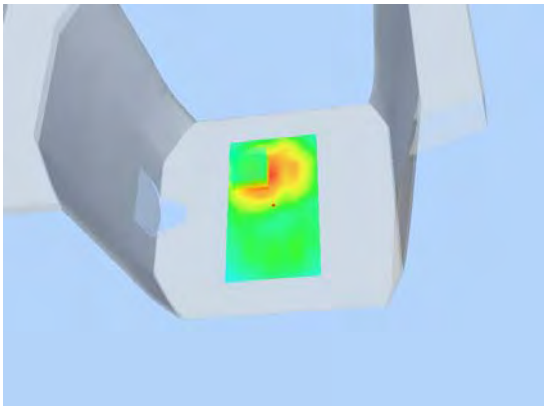
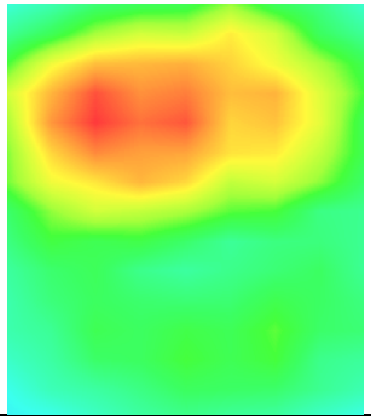
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-19.00, Y=30.00

SAR 10g (W/Kg)	0.136894
SAR 1g (W/Kg)	0.227459

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2183	0.1436	0.0917	0.0546



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Mar.21, 2013**

WCDMA Band Ⅴ Mid-Touch-Left (RMC) <SIM 1>

DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

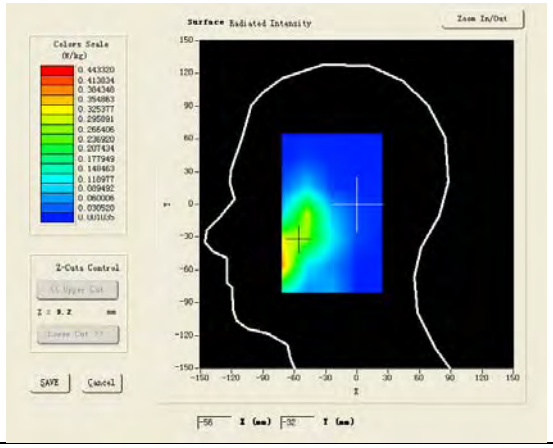
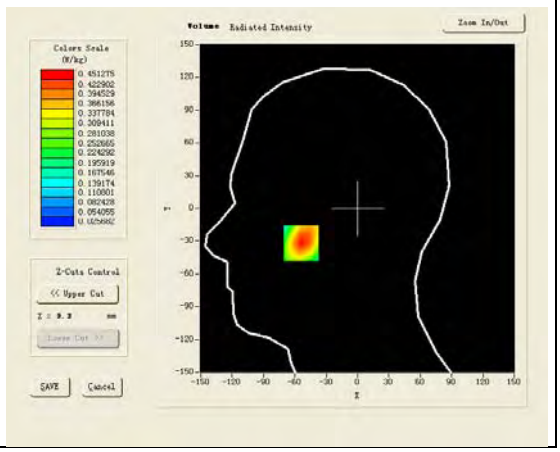
Communication System: UMTS; Communication System Band: BAND Ⅴ UTRA/FDD ; Duty Cycle:1: 1; Conv.F=6.05
Frequency: 835 MHz; Medium parameters used: f = 850 MHz; σ =0.91 mho/m; εr =41.68; ρ = 1000 kg/m³ ;
Phantom section: Left Section
Ambient temperature (℃): 21, Liquid temperature (℃): 21

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/ WCDMA Band Ⅴ Mid-Touch-Left/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm
Configuration/ WCDMA Band Ⅴ Mid-Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

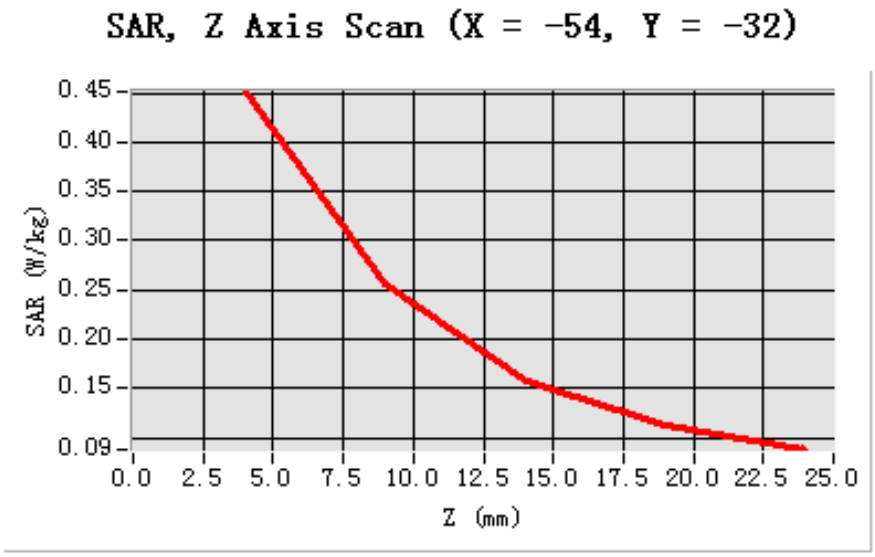
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Cheek
Band	WCDMA Band Ⅴ
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

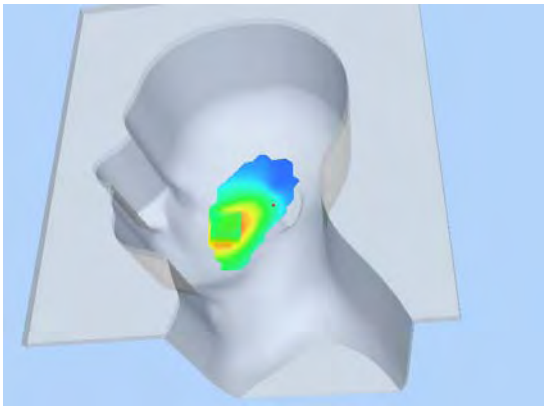
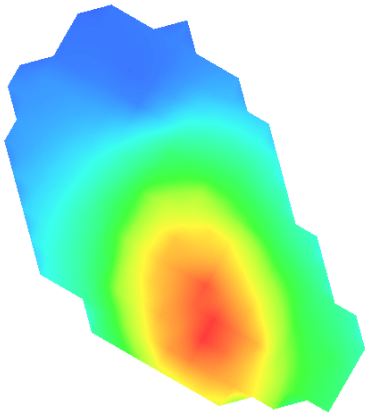
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=-54.00, Y=-32.00

SAR 10g (W/Kg)	0.253460
SAR 1g (W/Kg)	0.427437

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.4574	0.2583	0.1589	0.1122



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Mar.21, 2013**

WCDMA Band Ⅴ Mid-Tilt-Left (RMC) <SIM 1>

DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

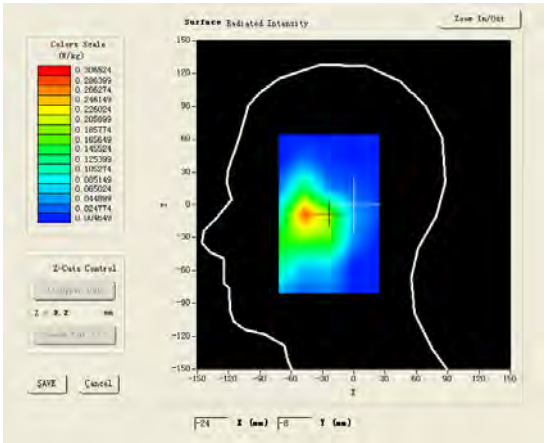
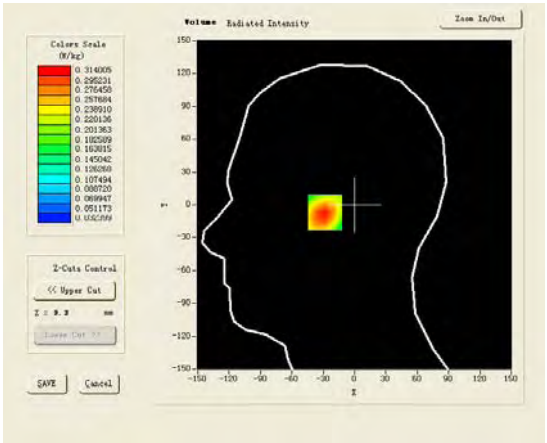
Communication System: UMTS; Communication System Band: BAND Ⅴ UTRA/FDD ; Duty Cycle:1: 1; Conv.F=6.05
Frequency: 835 MHz; Medium parameters used: f = 850 MHz; σ =0.91 mho/m; εr =41.68; ρ = 1000 kg/m³ ;
Phantom section: Left Section
Ambient temperature (℃): 21, Liquid temperature (℃): 21

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/ WCDMA Band Ⅴ Mid-Tilt-Left/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm
Configuration/ WCDMA Band Ⅴ Mid-Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

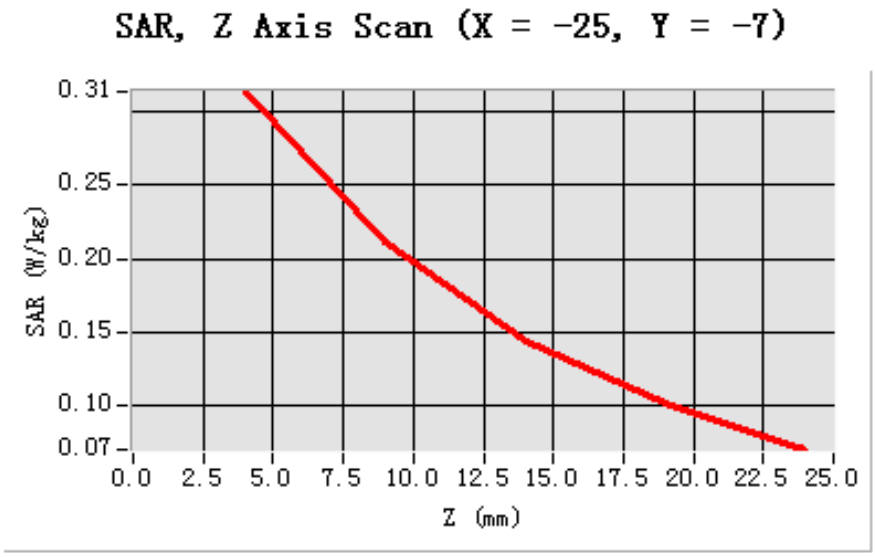
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Tilt
Band	WCDMA Band Ⅴ
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

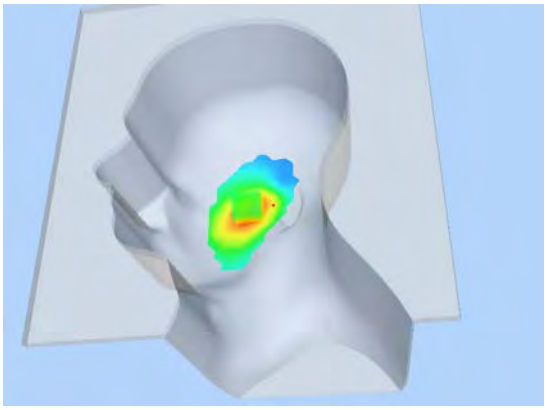
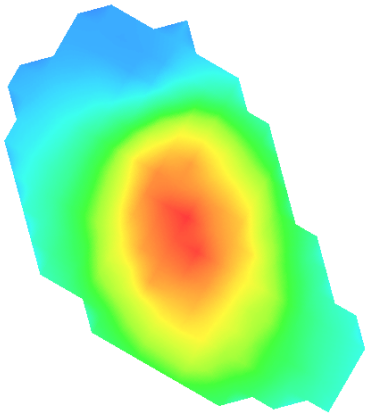
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=-25.00, Y=-7.00

SAR 10g (W/Kg)	0.197569
SAR 1g (W/Kg)	0.299743

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3176	0.2149	0.1438	0.1006



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Mar.21, 2013**

WCDMA Band Ⅴ Mid- Touch-Right (RMC) <SIM 1>

DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

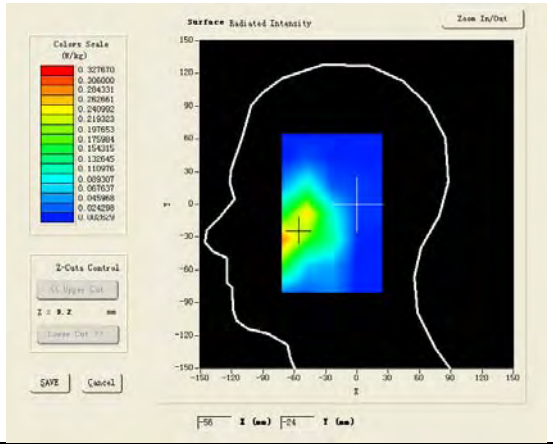
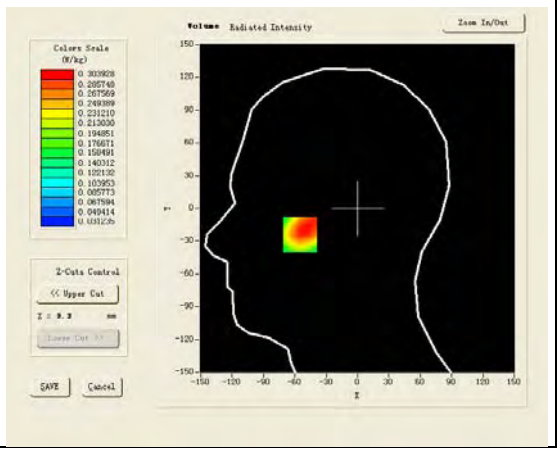
Communication System: UMTS; Communication System Band: BAND Ⅴ UTRA/FDD ; Duty Cycle:1: 1; Conv.F=6.05
Frequency: 835 MHz; Medium parameters used: f = 850 MHz; σ =0.91 mho/m; εr =41.68; ρ = 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21, Liquid temperature (℃): 21

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/ WCDMA Band Ⅴ Mid-Touch-Right/Area Scan: Measurement grid: dx=20mm, dy=20mm
Configuration/ WCDMA Band Ⅴ Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

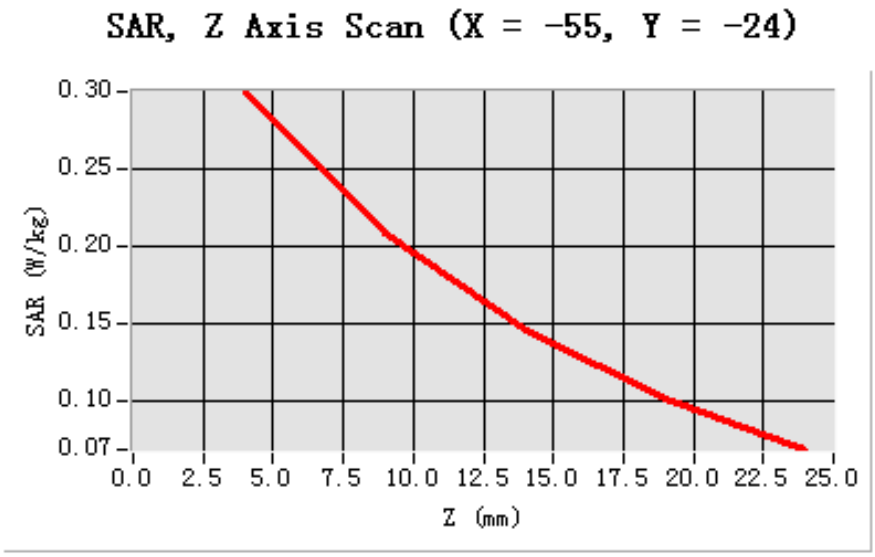
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Cheek
Band	WCDMA Band Ⅴ
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

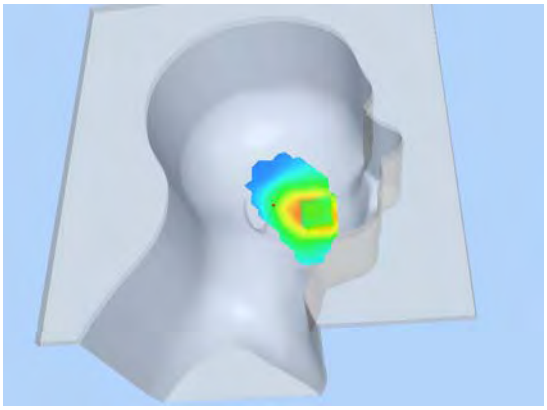
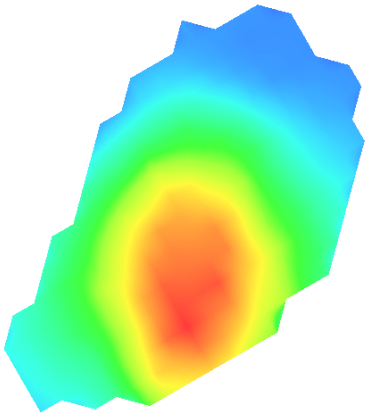
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=-55.00, Y=-24.00

SAR 10g (W/Kg)	0.198680
SAR 1g (W/Kg)	0.295374

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3003	0.2075	0.1438	0.1011



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Mar.21, 2013**

WCDMA Band Ⅴ Mid-Tilt-Right (RMC) <SIM 1>

DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

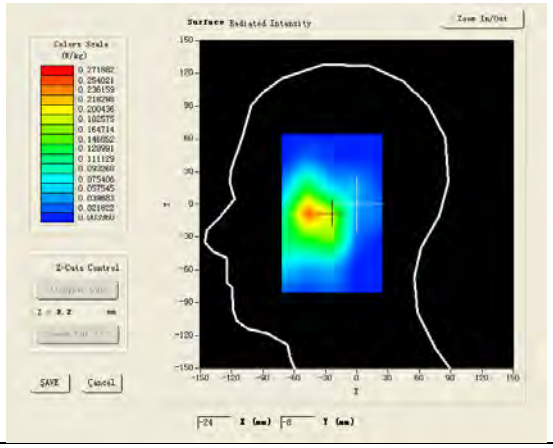
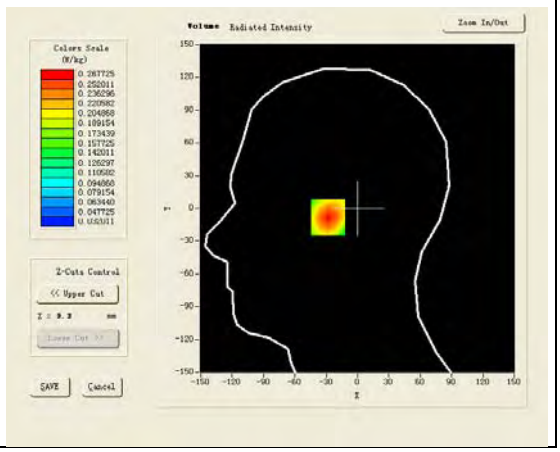
Communication System: UMTS; Communication System Band: BAND Ⅴ UTRA/FDD ; Duty Cycle:1: 1; Conv.F=6.05
Frequency: 835 MHz; Medium parameters used: f = 850 MHz; σ =0.91 mho/m; εr =41.68; ρ = 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21, Liquid temperature (℃): 21

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/ WCDMA Band Ⅴ Mid-Tilt-Right/Area Scan: Measurement grid: dx=20mm, dy=20mm
Configuration/ WCDMA Band Ⅴ Mid-Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

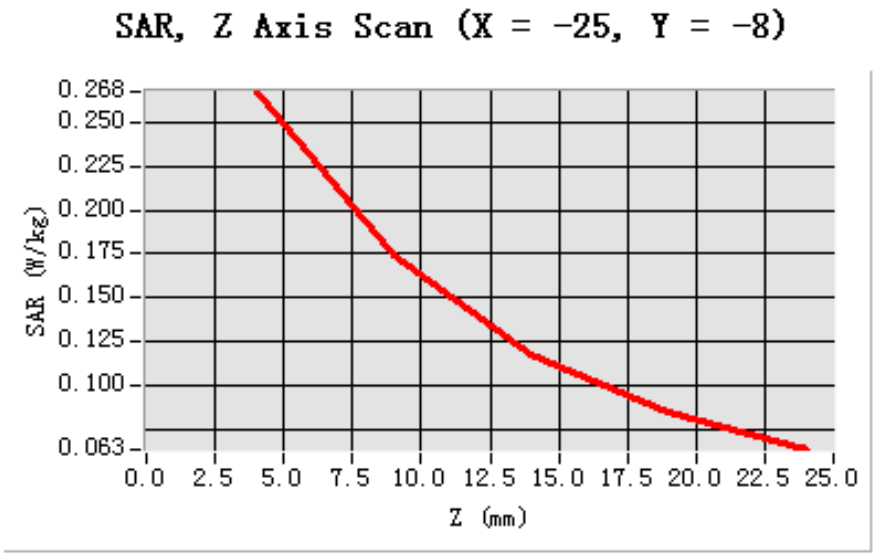
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Tilt
Band	WCDMA Band Ⅴ
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

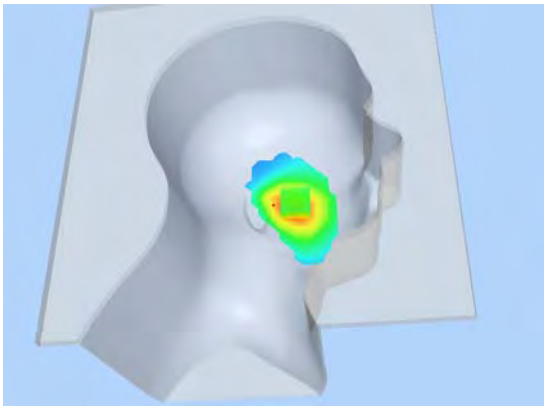
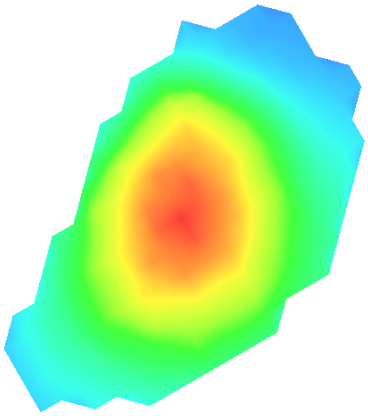
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=-25.00, Y=-8.00

SAR 10g (W/Kg)	0.163896
SAR 1g (W/Kg)	0.259347

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2659	0.1761	0.1176	0.0850



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Mar.21, 2013**

WCDMA Band Ⅴ Mid-Body-Towards Grounds (RMC) <SIM 1>

DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

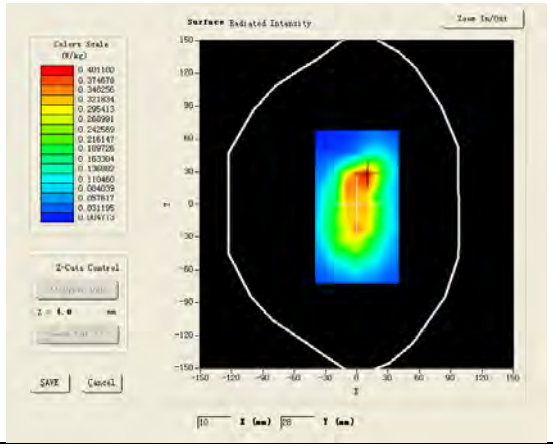
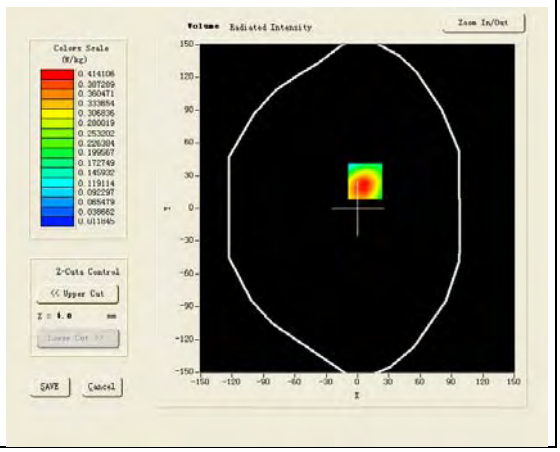
Communication System: UMTS; Communication System Band: BAND Ⅴ UTRA/FDD; Duty Cycle:1: 1; Conv.F=6.05
Frequency: 835 MHz; Medium parameters used: f = 850 MHz; σ =0.98 mho/m; ε r =53.45; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃):21, Liquid temperature (℃):21

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/ WCDMA Band Ⅴ Mid-Body-Front/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm
Configuration/ WCDMA Band Ⅴ Mid-Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

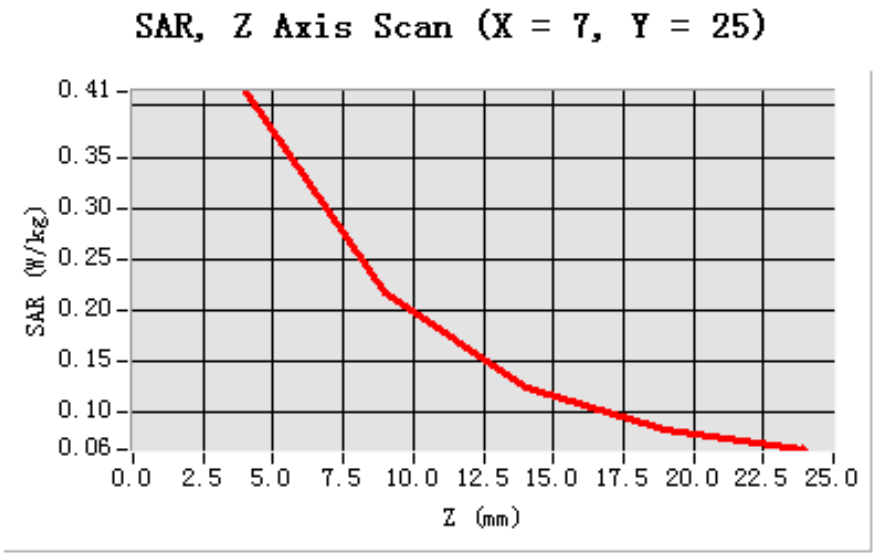
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band Ⅴ
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

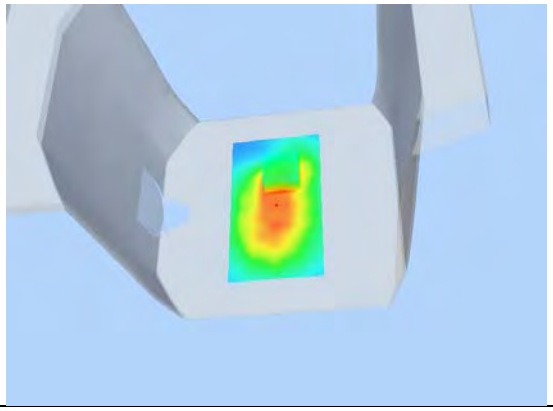
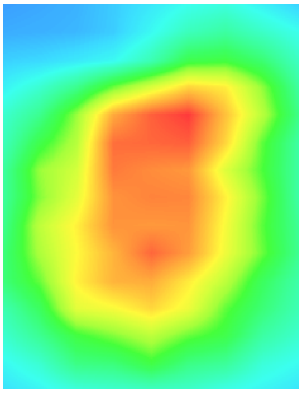
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=7.00, Y=25.00

SAR 10g (W/Kg)	0.249704
SAR 1g (W/Kg)	0.433464

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.4164	0.2161	0.1225	0.0821



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Mar.21, 2013**

WCDMA Band Ⅴ Mid- Body - Towards Phantom (RMC) <SIM 1>

DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

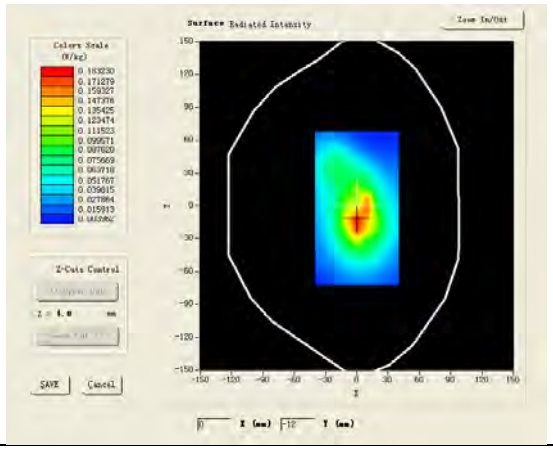
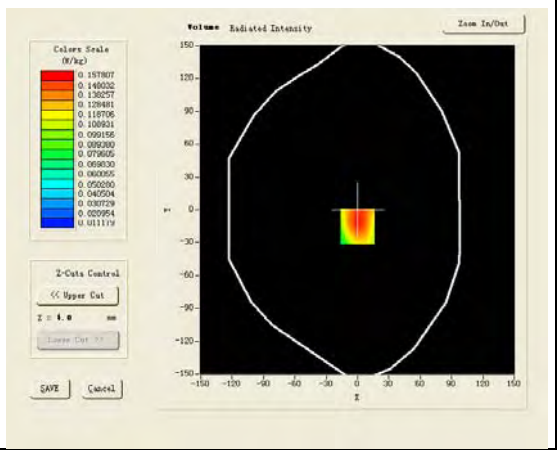
Communication System: UMTS; Communication System Band: BAND Ⅴ UTRA/FDD ; Duty Cycle:1: 1; Conv.F=6.05
Frequency: 835 MHz; Medium parameters used: f = 850 MHz; σ =0.98 mho/m; εr =53.45; ρ = 1000kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21, Liquid temperature (℃):21

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/ WCDMA BandⅤMid-Body- Back /Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm
Configuration/ WCDMA BandⅤMid-Body- Back /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

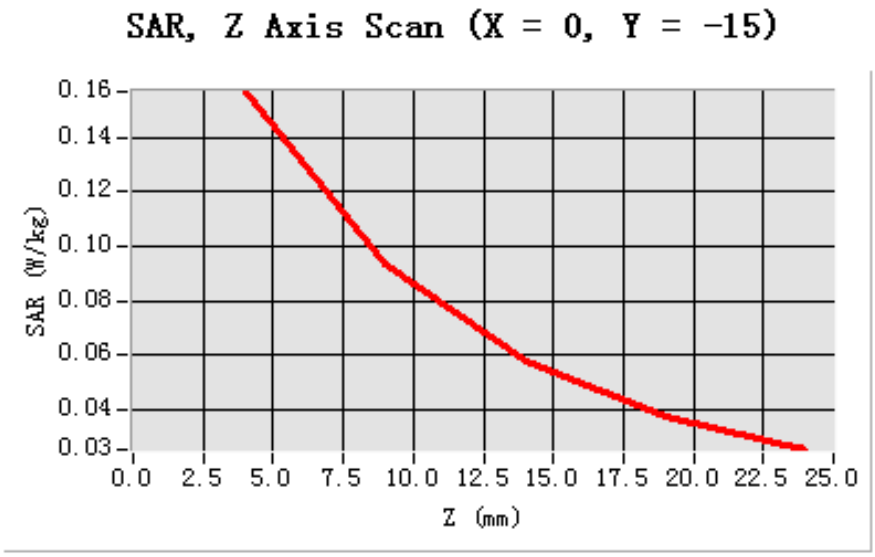
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Front
Band	WCDMA Band Ⅴ
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

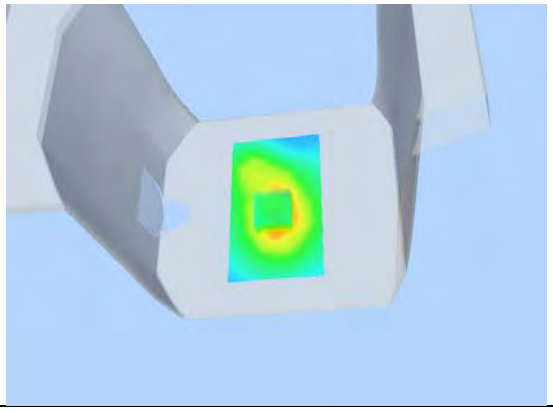
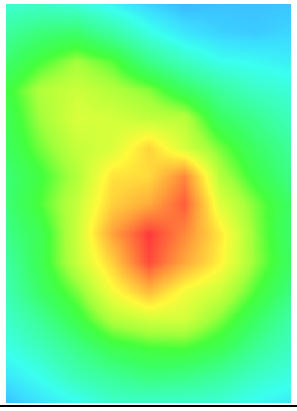
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=-15.00

SAR 10g (W/Kg)	0.094759
SAR 1g (W/Kg)	0.169596

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1563	0.0935	0.0575	0.0378



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Mar.21, 2013**

WCDMA Band Ⅴ Mid- Body - Towards Grounds(HSPA) <SIM 1>

DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

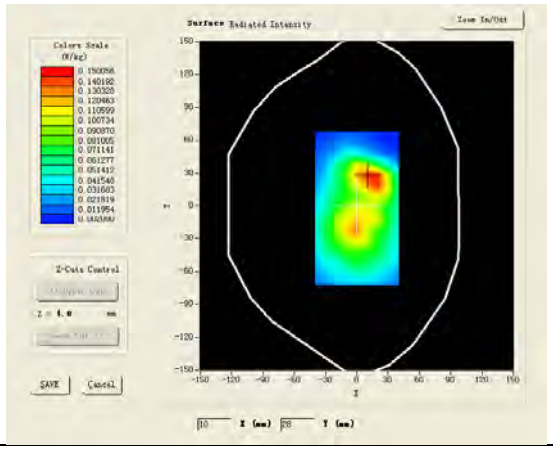
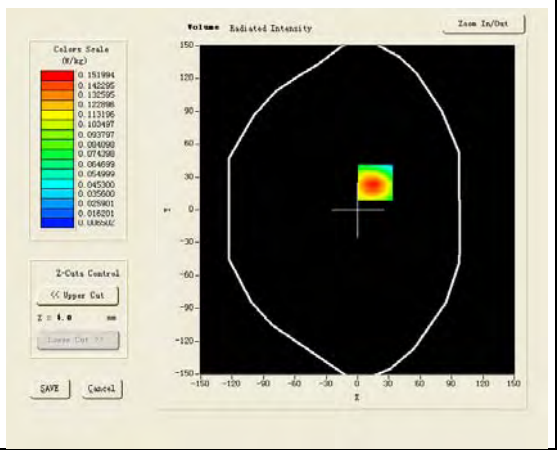
Communication System: UMTS; Communication System Band: BAND Ⅴ UTRA/FDD ; Duty Cycle:1: 1; Conv.F=6.05
Frequency: 835 MHz; Medium parameters used: f = 850 MHz; σ =0.98 mho/m; εr =53.45; ρ = 1000kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21, Liquid temperature (℃):21

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/ WCDMA BandⅤMid-Body- Back /Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm
Configuration/ WCDMA BandⅤMid-Body- Back /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

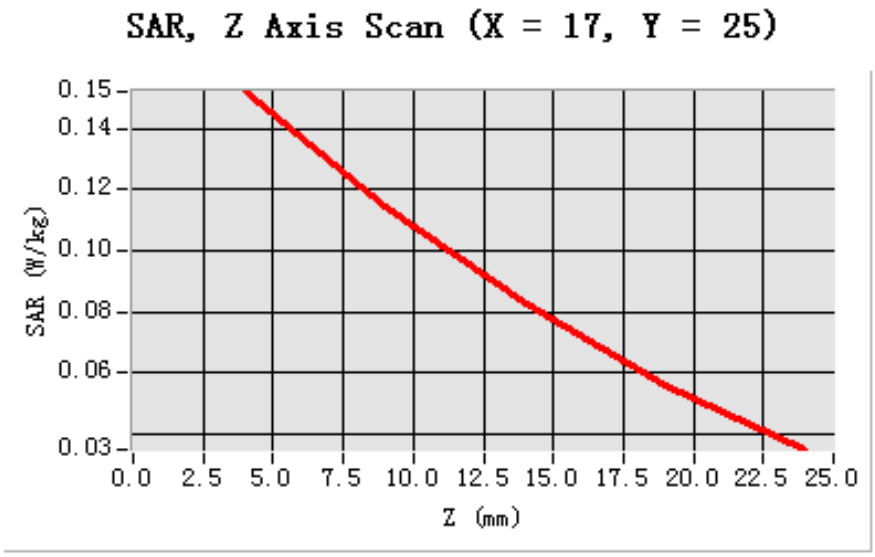
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band Ⅴ
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

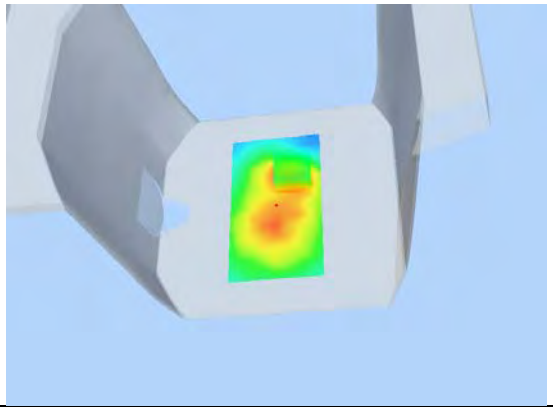
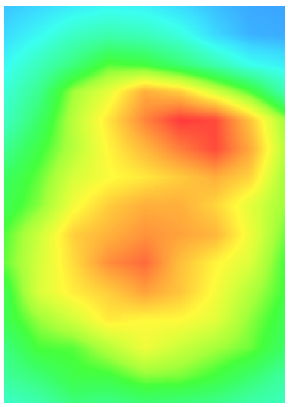
SURFACE SAR	VOLUME SAR
	

Maximum location: X=17.00, Y=25.00

SAR 10g (W/Kg)	0.104486
SAR 1g (W/Kg)	0.158562

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1567	0.1153	0.0858	0.0566



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Mar.21, 2013**

WCDMA Band Ⅴ Mid- Body - Towards Grounds (HSPA)-with earphone <SIM 1>

DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

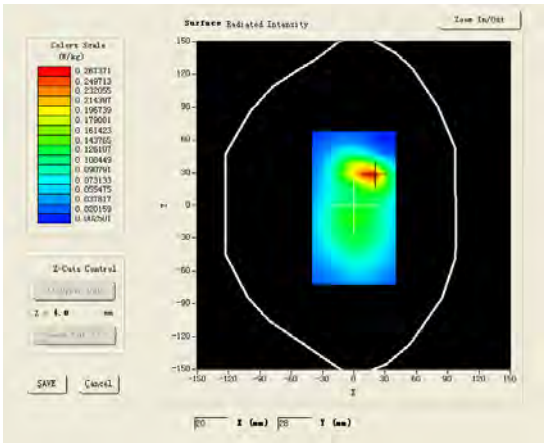
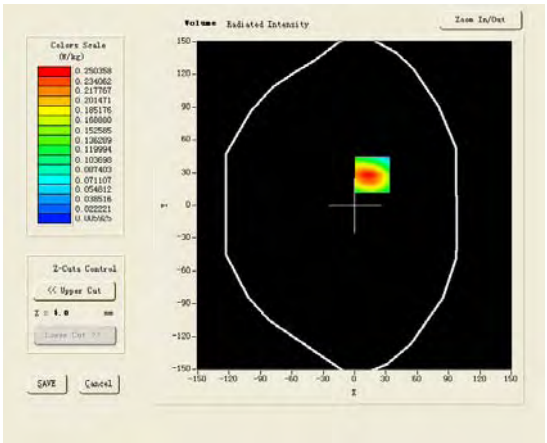
Communication System: UMTS; Communication System Band: BAND Ⅴ UTRA/FDD ; Duty Cycle:1: 1; Conv.F=6.05
Frequency: 835 MHz; Medium parameters used: f = 850 MHz; σ =0.98 mho/m; εr =53.45; ρ = 1000kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21, Liquid temperature (℃):21

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/ WCDMA Band Ⅴ Mid-Body- Back /Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm
Configuration/ WCDMA Band Ⅴ Mid-Body- Back /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

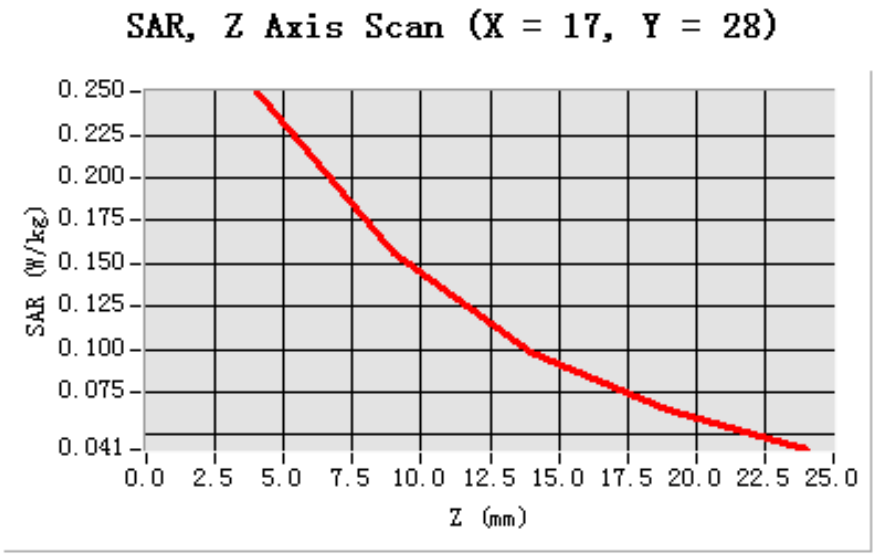
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band Ⅴ
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

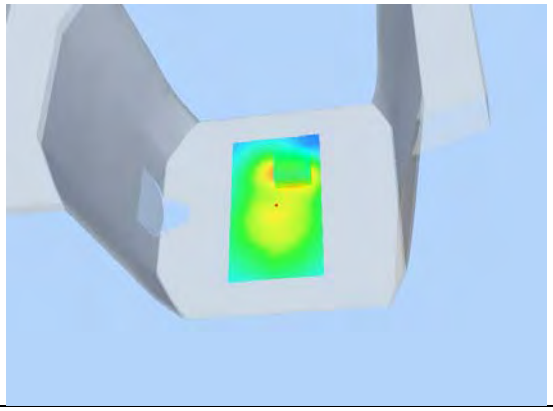
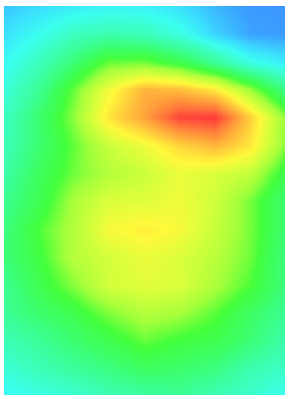
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=17.00, Y=28.00

SAR 10g (W/Kg)	0.146428
SAR 1g (W/Kg)	0.257489

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2537	0.1591	0.0937	0.0642



3D screen shot	Hot spot position
	

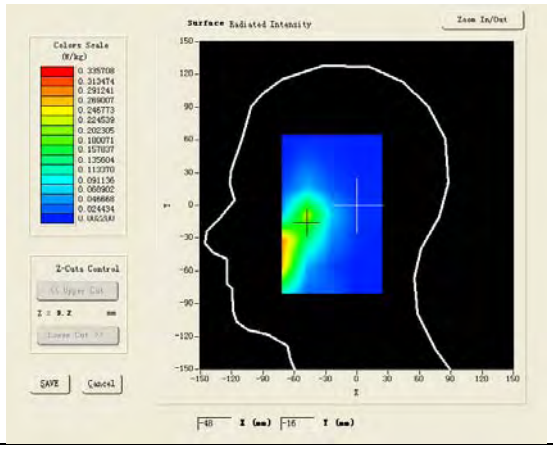
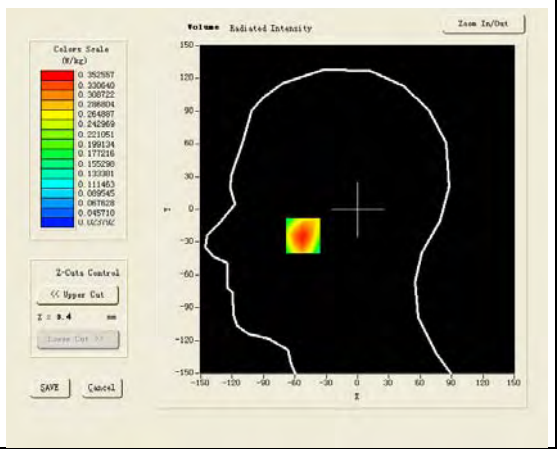
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
WCDMA Band IV Mid-Touch-Left (RMC) <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: UMTS; Communication System Band: Band IV UTRA/FDD ; Duty Cycle: 1:1; Conv.F=5.22; Frequency: 1732.5MHz; Medium parameters used: f = 1700 MHz; σ = 1.43 mho/m; ε r =41.36; ρ = 1000 kg/m^3 ;
Phantom section: Left Section
Ambient temperature (℃):21, Liquid temperature (℃):21

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/ WCDMA Band IV Mid-Touch-Left/Area Scan: Measurement grid: dx=20mm, dy=20mm
Configuration/ WCDMA Band IV Mid-Touch-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

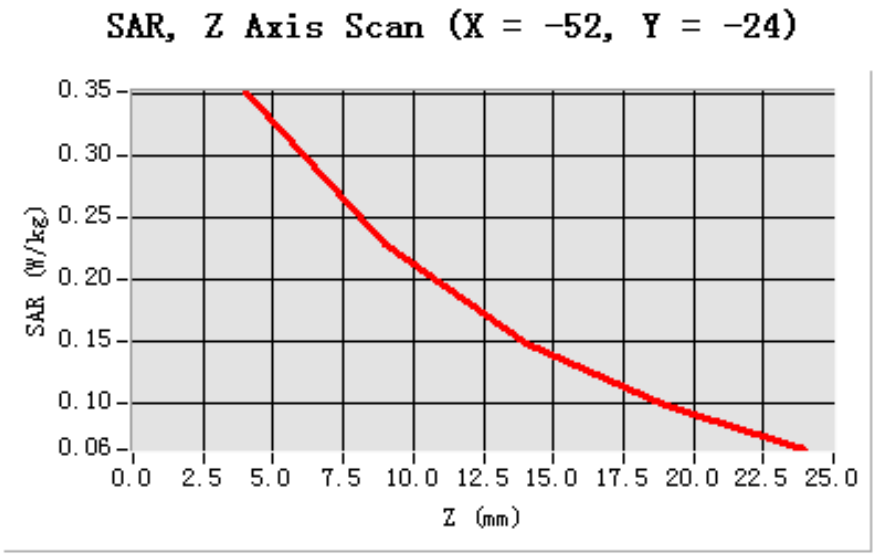
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Cheek
Band	WCDMA Band IV
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

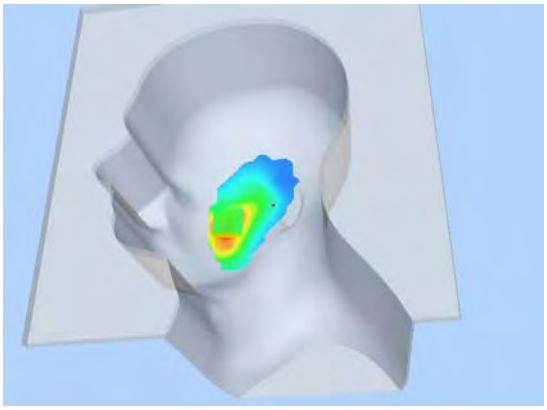
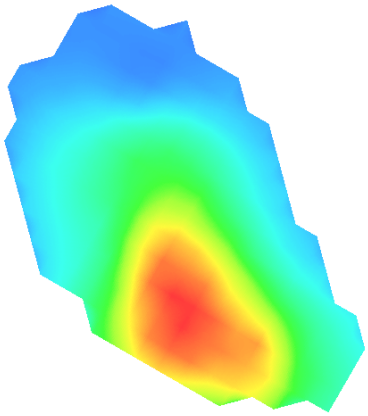
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=-52.00, Y=-24.00

SAR 10g (W/Kg)	0.200872
SAR 1g (W/Kg)	0.333875

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3553	0.2271	0.1484	0.0974



3D screen shot	Hot spot position
	

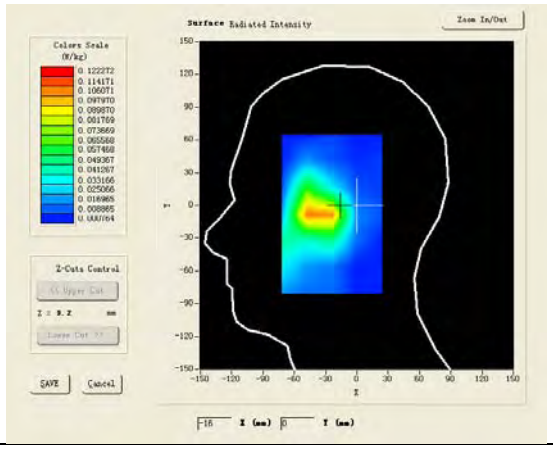
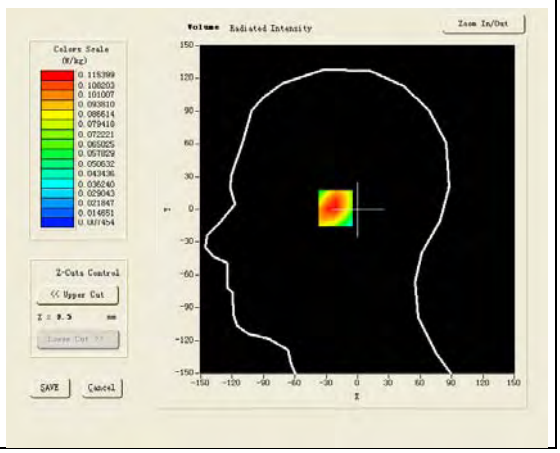
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
WCDMA Band IV Mid-Tilt-Left (RMC) <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: UMTS; Communication System Band: Band IV UTRA/FDD ;Duty Cycle:1:1;Conv.F=5.22;
Frequency: 1732.5MHz; Medium parameters used: f = 1700 MHz; σ = 1.43 mho/m; ε r =41.36; ρ = 1000 kg/m^3 ;
Phantom section: Left Section
Ambient temperature (℃):21, Liquid temperature (℃):21

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/ WCDMA Band IV Mid-Tilt-Left/Area Scan: Measurement grid: dx=20mm, dy=20mm
Configuration/ WCDMA Band IV Mid-Tilt-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

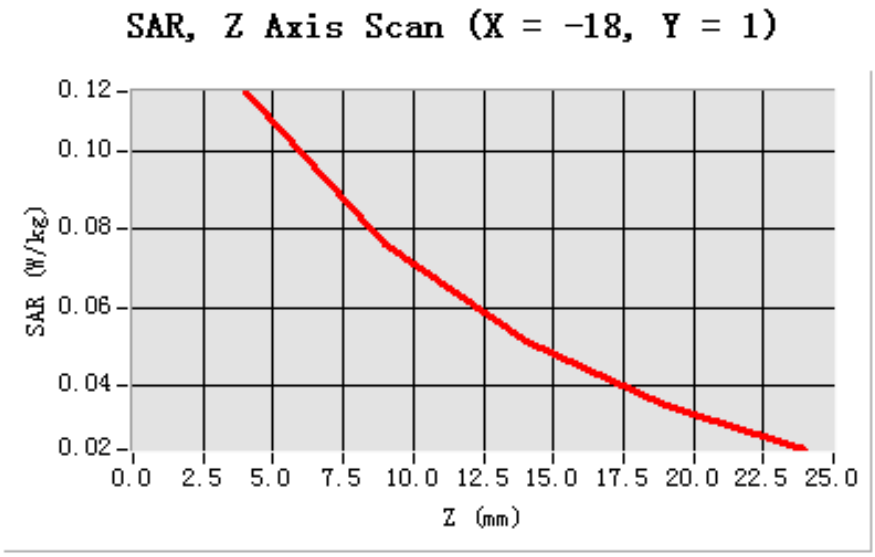
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Tilt
Band	WCDMA Band IV
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

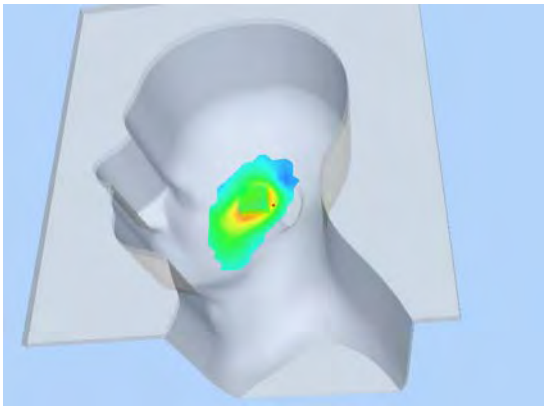
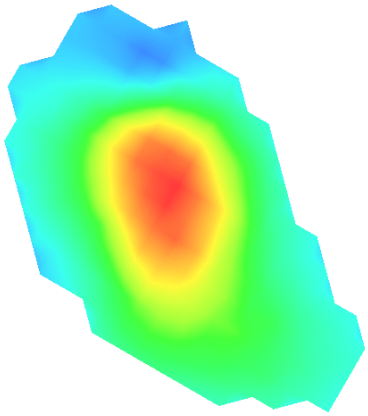
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=-18.00, Y=1.00

SAR 10g (W/Kg)	0.069425
SAR 1g (W/Kg)	0.110777

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1163	0.0765	0.0513	0.0351



3D screen shot	Hot spot position
	

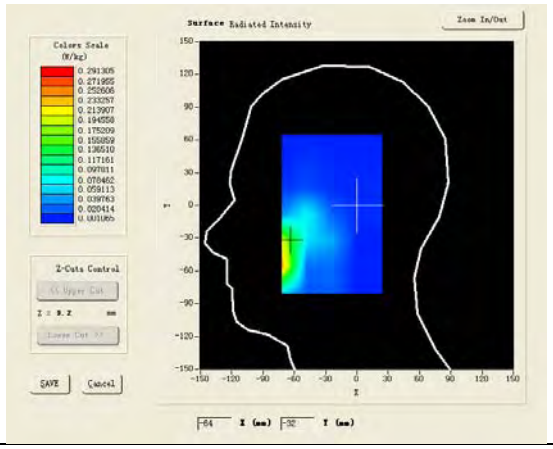
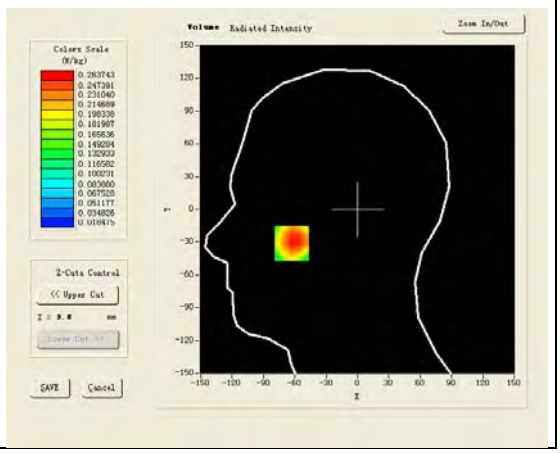
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
WCDMA Band IV Mid-Touch-Right (RMC) <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: UMTS; Communication System Band: Band IV UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.22;
Frequency: 1735.2 MHz; Medium parameters used: f = 1700 MHz; σ = 1.43 mho/m; ε r =41.36; ρ = 1000 kg/m^3 ;
Phantom section: Left Section
Ambient temperature (℃):21, Liquid temperature (℃):21

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/ WCDMA Band IV Mid-Touch-Right/Area Scan: Measurement grid: dx=20mm, dy=20mm
Configuration/ WCDMA Band IV Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

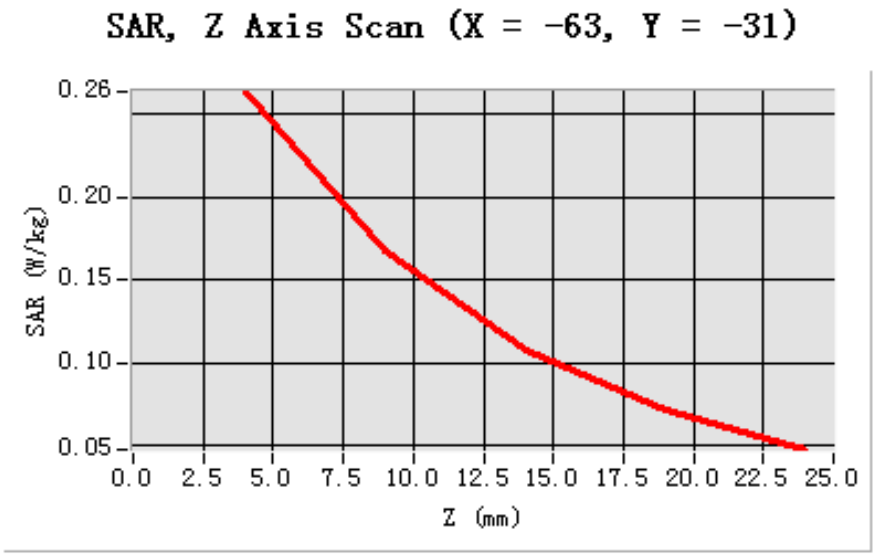
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Cheek
Band	WCDMA Band IV
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

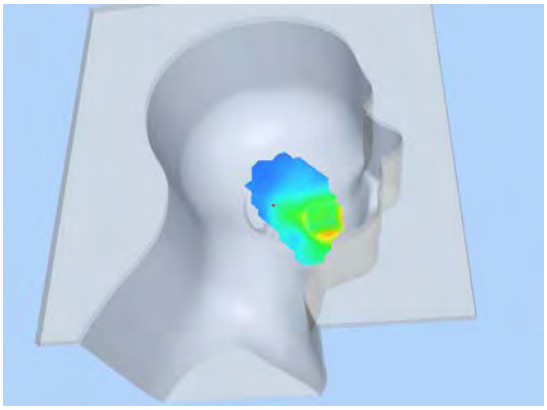
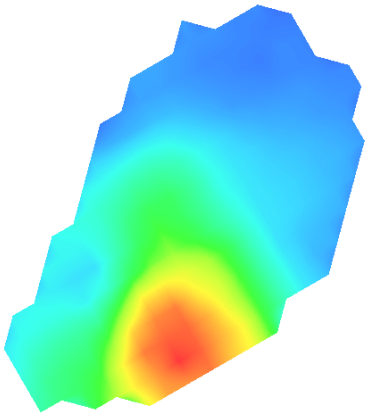
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=-63.00, Y=-31.00

SAR 10g (W/Kg)	0.153785
SAR 1g (W/Kg)	0.258824

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2615	0.1659	0.1084	0.0723



3D screen shot	Hot spot position
	

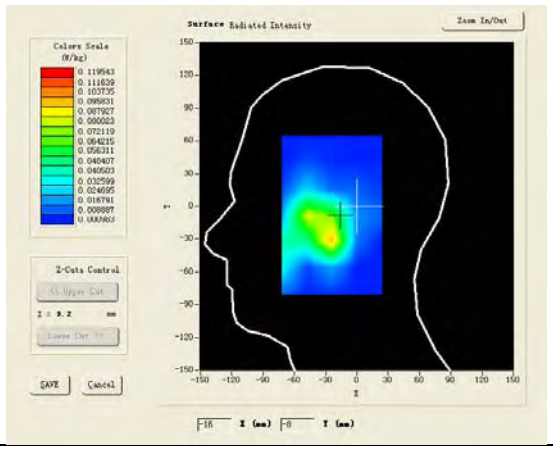
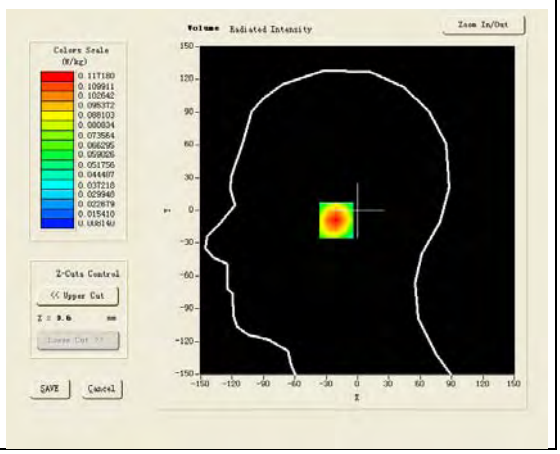
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
WCDMA Band IV Mid-Tilt-Right <RMC> <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: UMTS; Communication System Band: Band IV UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.22; Frequency: 1735.2MHz; Medium parameters used: f = 1700 MHz; σ = 1.43 mho/m; ε r =41.36; ρ = 1000 kg/m^3 ;
Phantom section: Left Section
Ambient temperature (℃):21, Liquid temperature (℃):21

Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/WCDMA Band IV Mid-Tilt-Right/Area Scan: Measurement grid: dx=20mm, dy=20mm
Configuration/ WCDMA Band IV Mid-Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

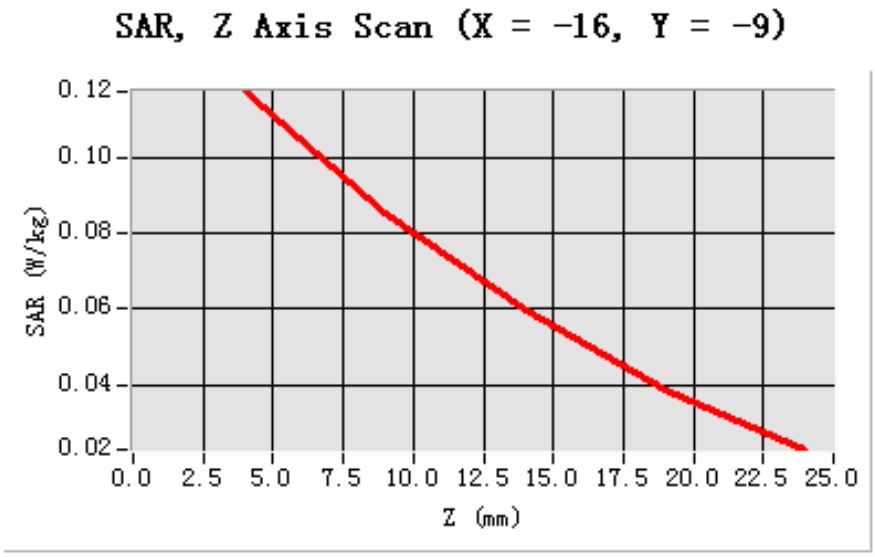
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Tilt
Band	WCDMA Band IV
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

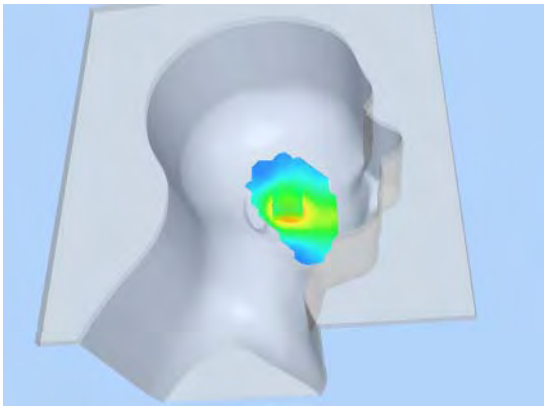
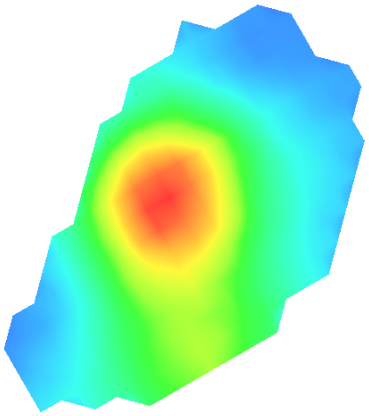
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=-16.00, Y=-9.00

SAR 10g (W/Kg)	0.068560
SAR 1g (W/Kg)	0.112755

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1137	0.0885	0.0537	0.0348



3D screen shot	Hot spot position
	

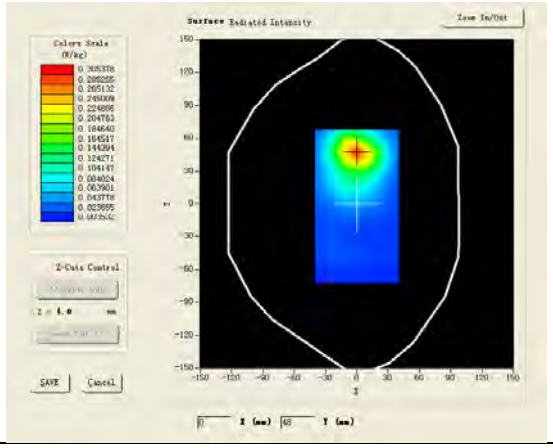
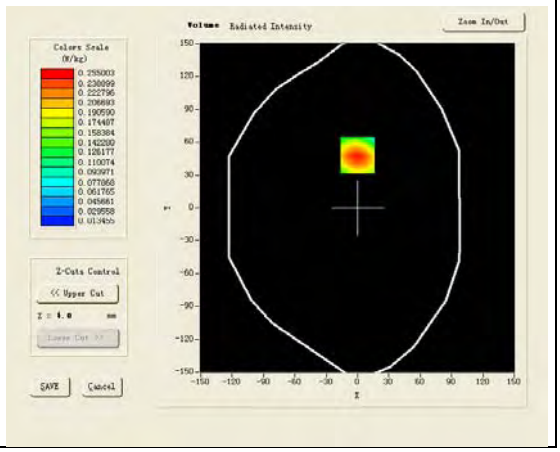
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
WCDMA Band IV Mid-Body-Towards Grounds (RMC) <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: UMTS; Communication System Band: Band IV UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.22; Frequency: 1735.2MHz; Medium parameters used: f = 1700 MHz; σ = 1.49mho/m; ε_r =53.15; ρ = 1000 kg/m^3 ;

Phantom section: Flat Section
Ambient temperature (℃):21, Liquid temperature (℃):21
Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/WCDMA Band IV Mid-Body-Back/Area Scan: Measurement grid: dx=20mm, dy=20mm
Configuration/ WCDMA Band IV Mid-Body-Back//Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

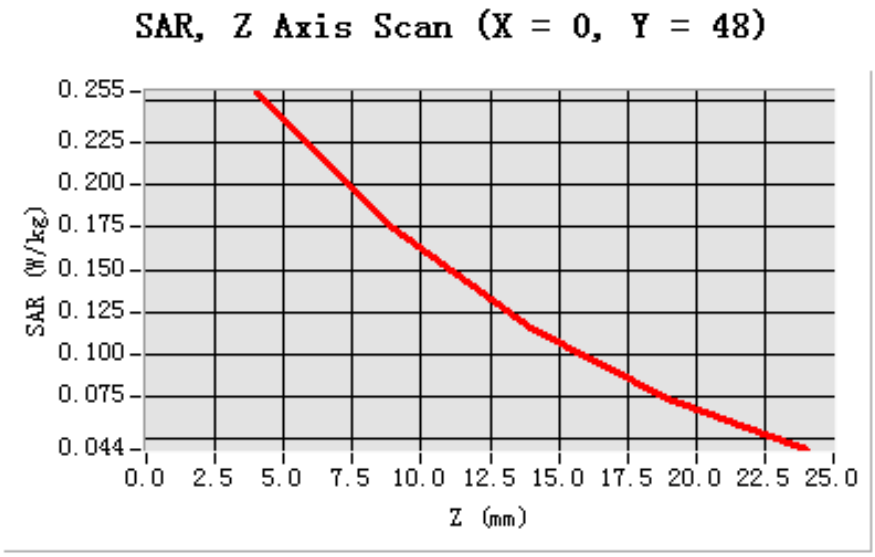
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band IV
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

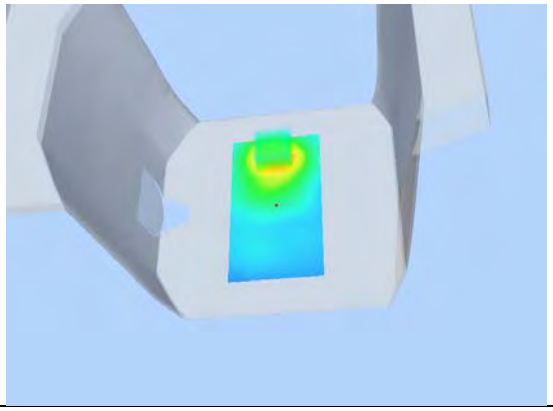
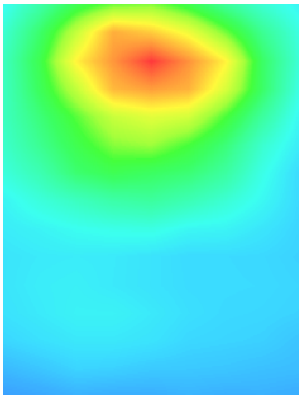
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=0.00, Y=48.00

SAR 10g (W/Kg)	0.167593
SAR 1g (W/Kg)	0.263779

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2564	0.1736	0.1158	0.0715



3D screen shot	Hot spot position
	

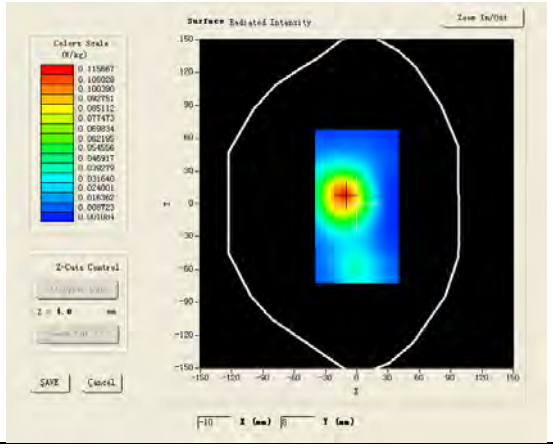
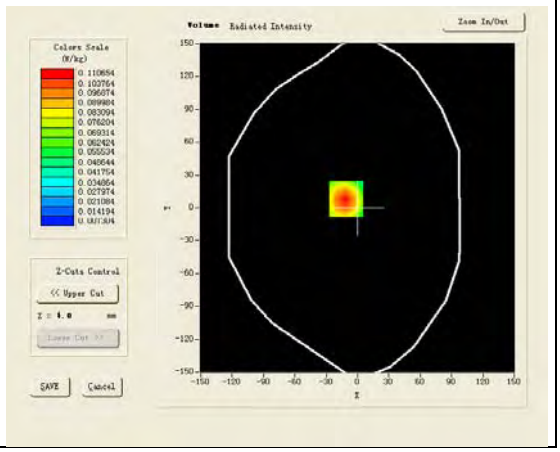
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
WCDMA Band IV Mid- Body- Towards Phantom (RMC) <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: UMTS; Communication System Band: Band IV UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.22; Frequency: 1735.2MHz; Medium parameters used: f = 1700 MHz; σ = 1.49mho/m; ε_r =53.15; ρ = 1000 kg/m^3 ;

Phantom section: Flat Section
Ambient temperature (℃):21, Liquid temperature (℃):21
Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/WCDMA Band IV Mid-Body-Front/Area Scan: Measurement grid: dx=20mm, dy=20mm
Configuration/ WCDMA Band IV Mid-Body-Front//Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

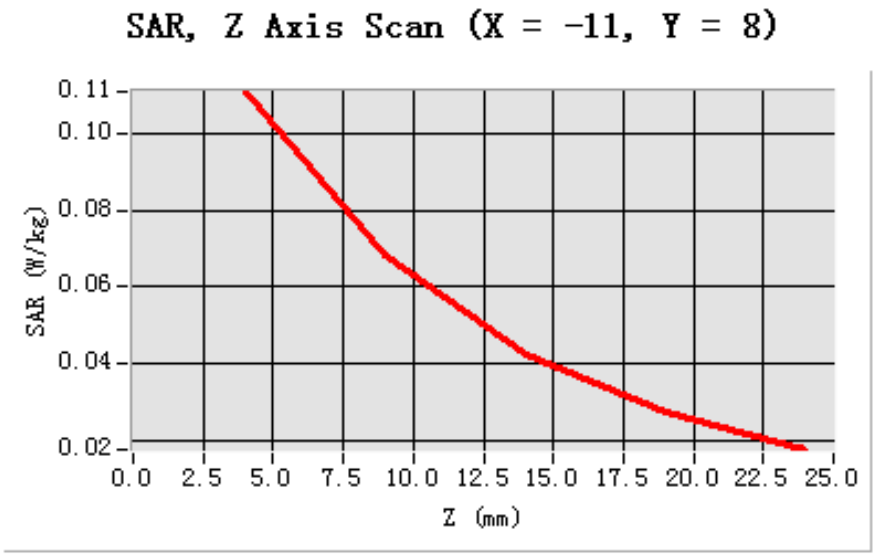
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Front
Band	WCDMA Band IV
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

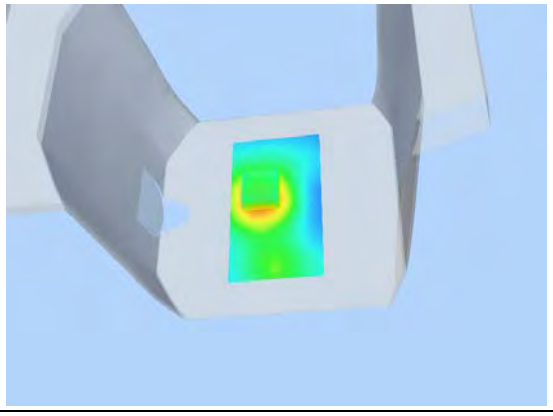
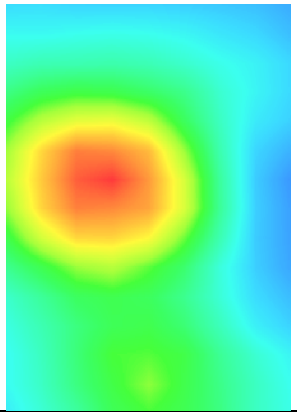
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=-11.00, Y=8.00

SAR 10g (W/Kg)	0.063855
SAR 1g (W/Kg)	0.117459

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1137	0.0641	0.0426	0.0277



3D screen shot	Hot spot position
	

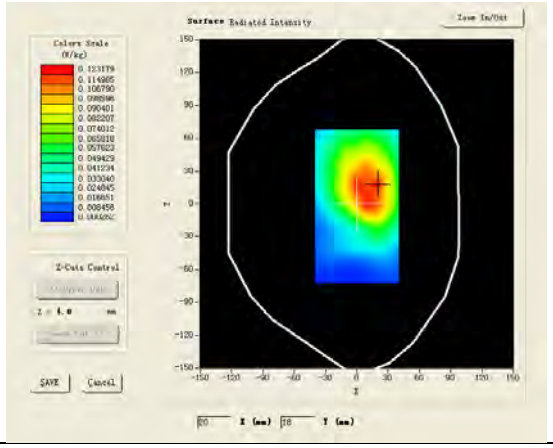
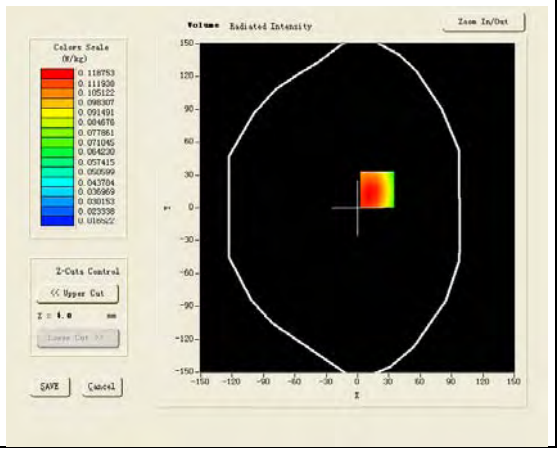
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
WCDMA Band IV Mid- Body - Towards Grounds (HSPA) <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: UMTS; Communication System Band: Band IV UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.22; Frequency: 1735.2MHz; Medium parameters used: f =1700 MHz; σ = 1.49mho/m; ε r =53.15; ρ = 1000 kg/m^3 ;

Phantom section: Flat Section
Ambient temperature (℃):21, Liquid temperature (℃):21
Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/WCDMA Band IV Mid-Body-Back/Area Scan: Measurement grid: dx=20mm, dy=20mm
Configuration/ WCDMA Band IV Mid-Body-Back//Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

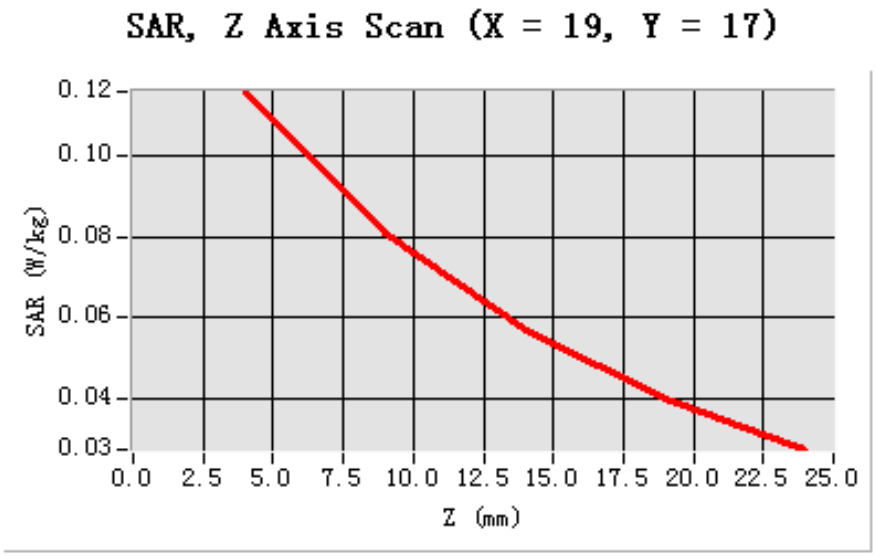
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band IV
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

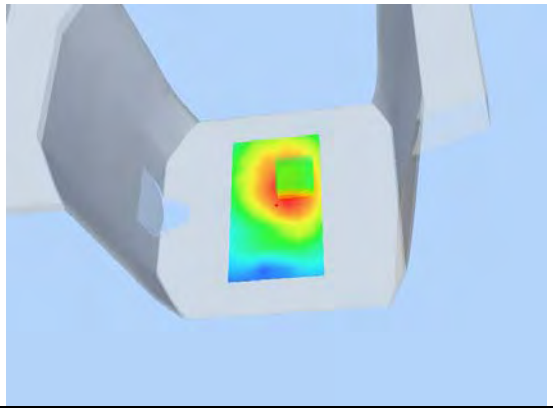
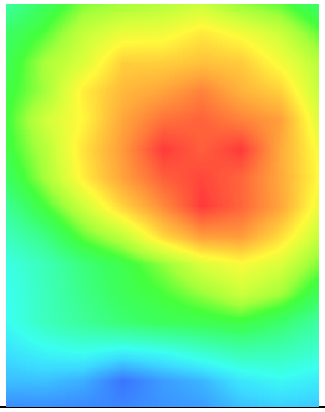
SURFACE SAR	VOLUME SAR
	

Maximum location: X=19.00, Y=17.00

SAR 10g (W/Kg)	0.074962
SAR 1g (W/Kg)	0.119672

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1112	0.0810	0.0567	0.0400



3D screen shot	Hot spot position
	

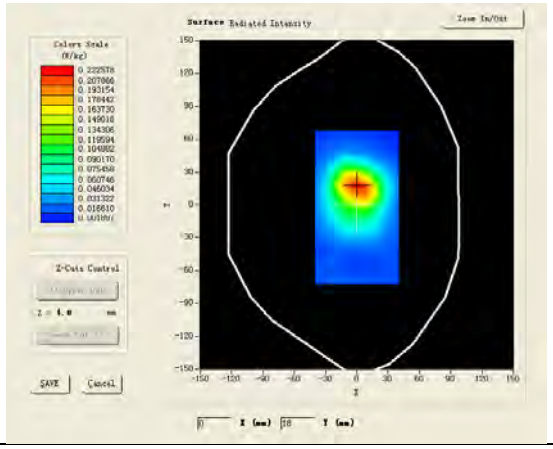
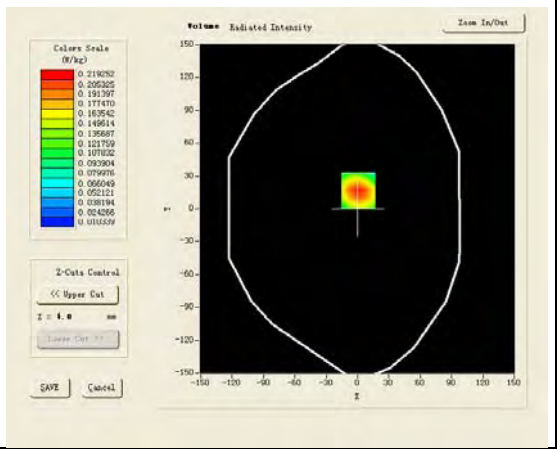
Test Laboratory: AGC Lab **Date: Mar.21, 2013**
WCDMA Band IV Mid- Body - Towards Grounds (HSPA) -with earphone <SIM 1>
DUT: WCDMA MOBILE PHONE ; Type: Orbit 5700T

Communication System: UMTS; Communication System Band: Band IV UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.22; Frequency: 1735.2MHz; Medium parameters used: f = 1700 MHz; σ = 1.49mho/m; ε_r =53.15; ρ = 1000 kg/m^3 ;

Phantom section: Flat Section
Ambient temperature (℃):21, Liquid temperature (℃):21
Satimo Configuration:
Probe: EP159; Calibrated: 12/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4_02_01

Configuration/WCDMA Band IV Mid-Body-Back/Area Scan: Measurement grid: dx=20mm, dy=20mm
Configuration/ WCDMA Band IV Mid-Body-Back//Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

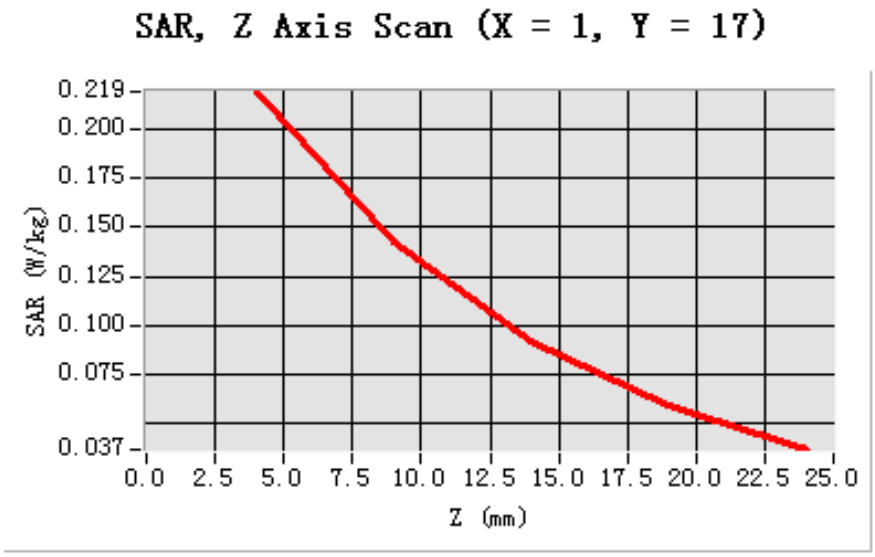
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band IV
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

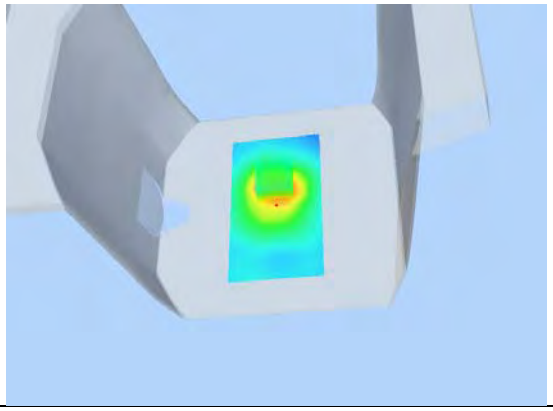
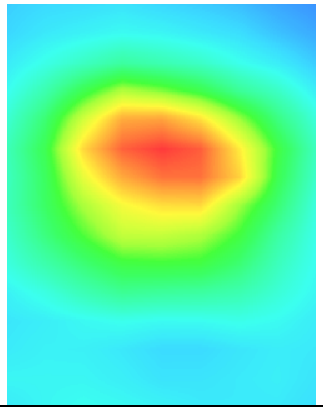
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=1.00, Y=17.00

SAR 10g (W/Kg)	0.137459
SAR 1g (W/Kg)	0.229635

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2139	0.1485	0.0919	0.0593

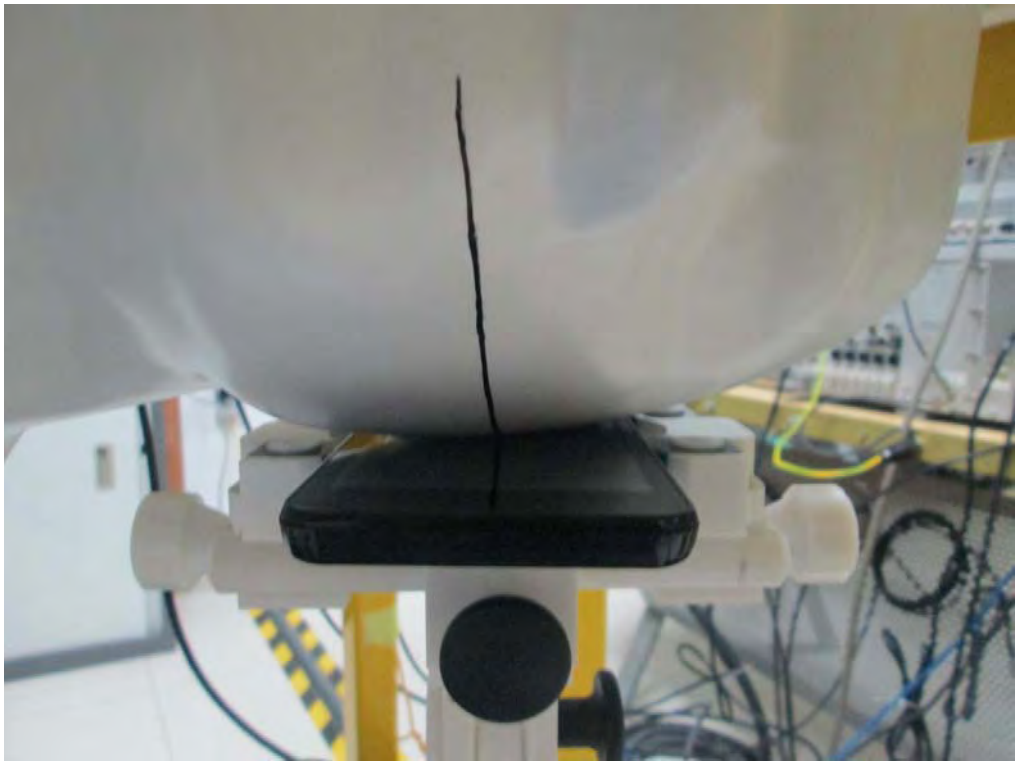


3D screen shot	Hot spot position
	

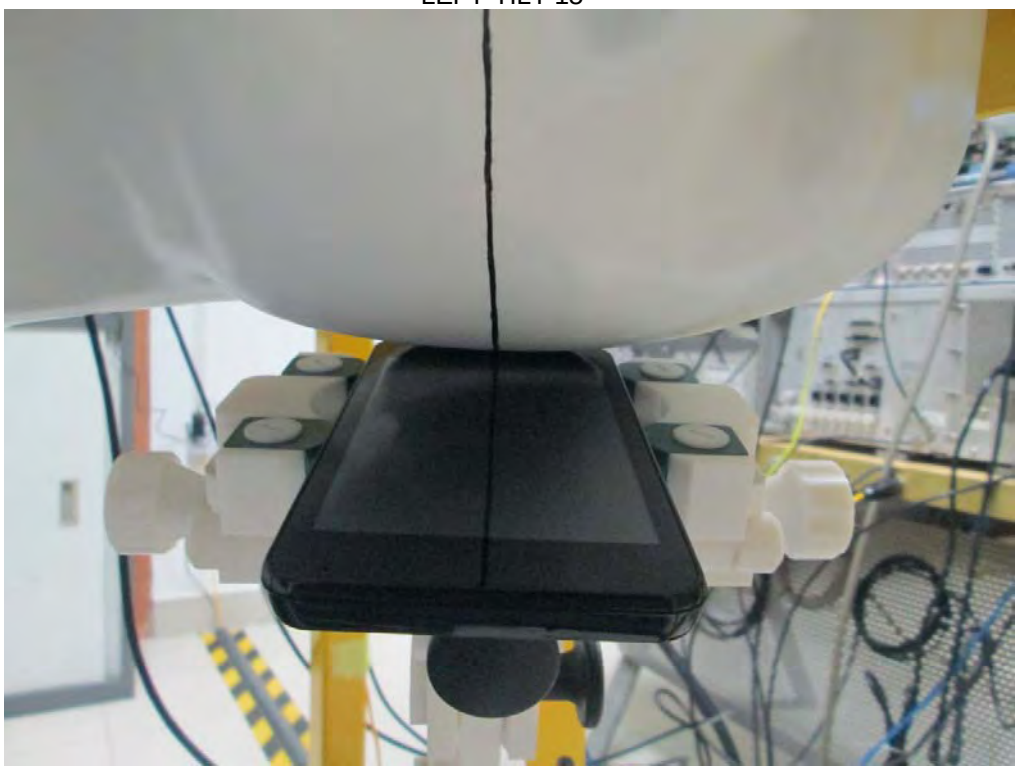
Appendix C. TEST SETUP PHOTOGRAPHS &EUT PHOTOGRAPHS

Test Setup Photographs

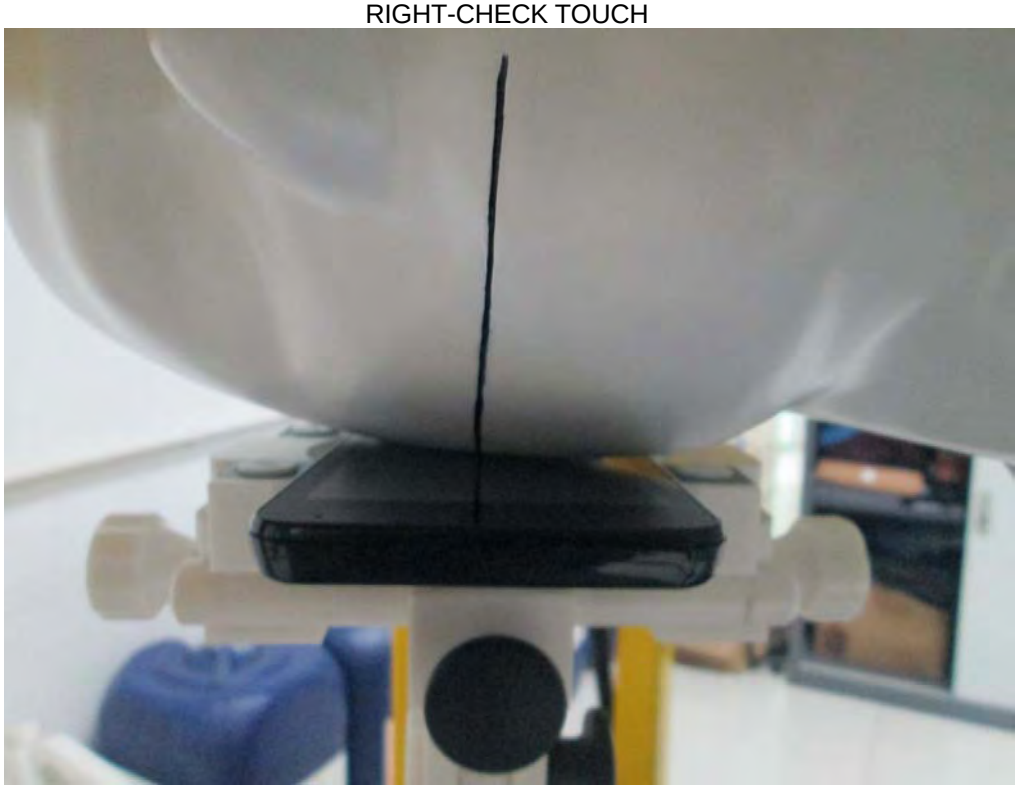
LEFT-CHECK TOUCH



LEFT-TILT 15^0



RIGHT-CHECK TOUCH



RIGHT-TILT 15^0

Body Back15mm

Body Front15mm

Body back with Headset

DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

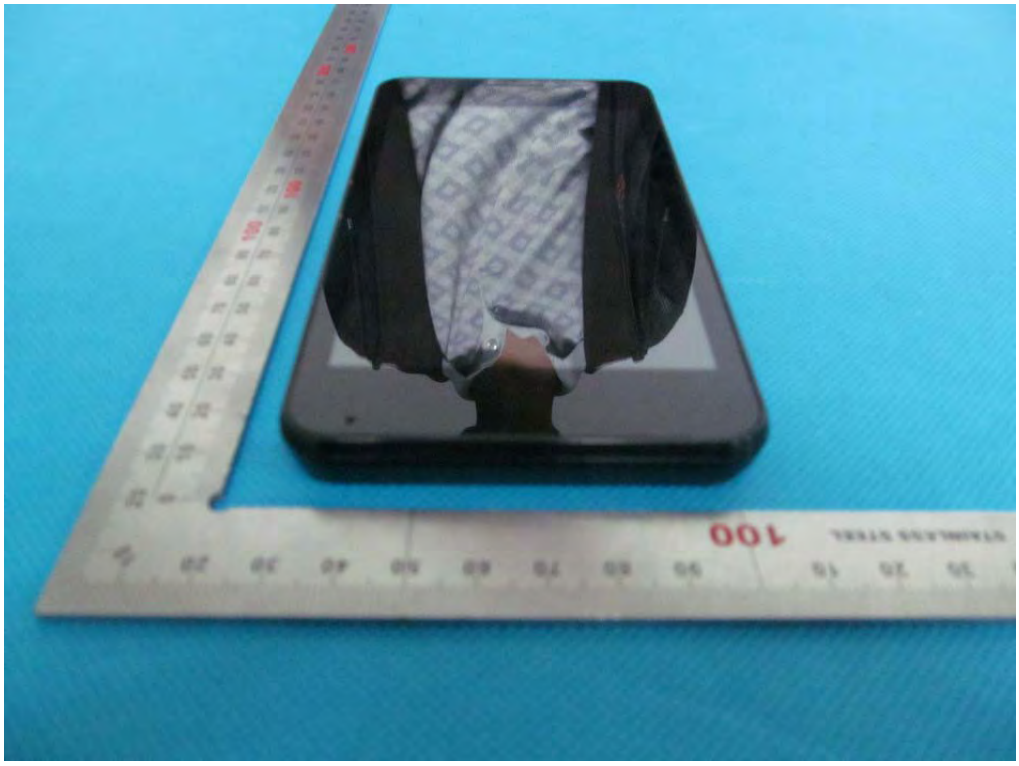
Note：The position used in the measurement were according to IEEE 1528-2003

EUT PHOTOGRAPHS

TOTAL VIEW OF EUT

TOP VIEW OF EUT

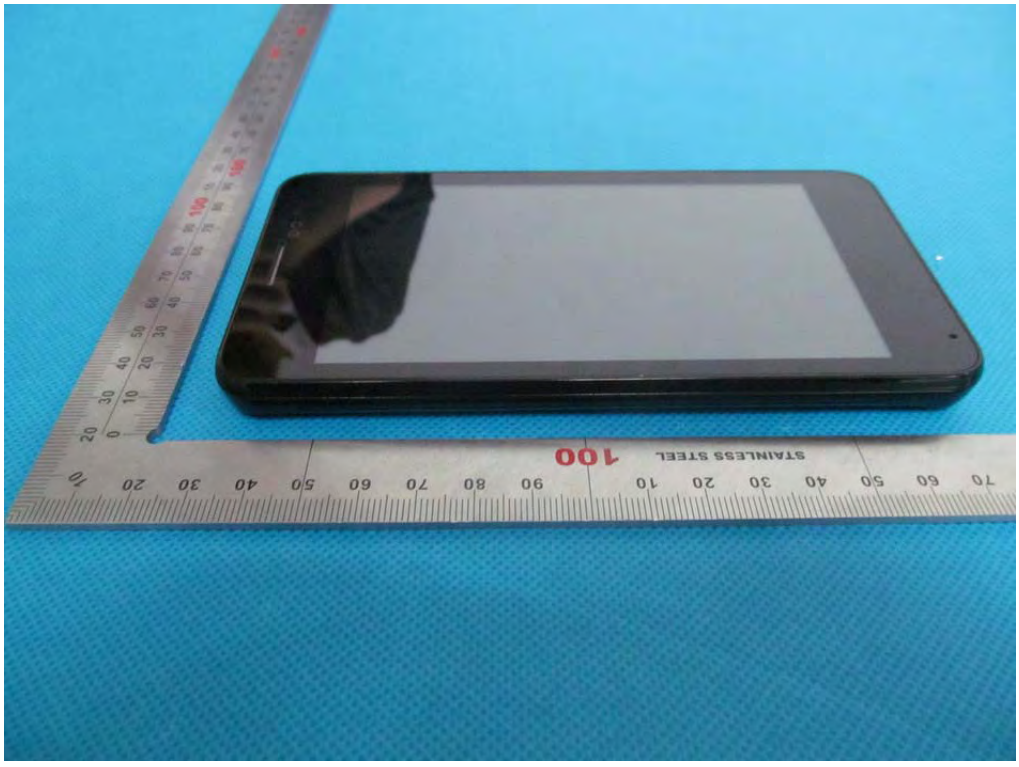
BOTTOM VIEW OF EUT



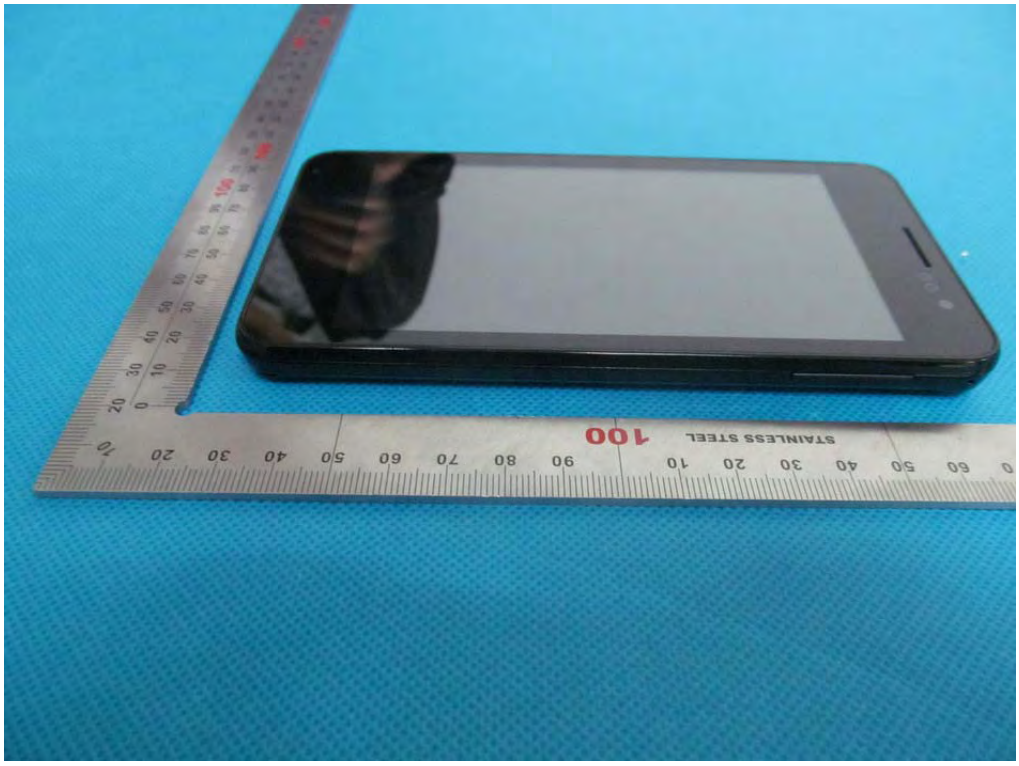
FRONT VIEW OF EUT

BACK VIEW OF EUT

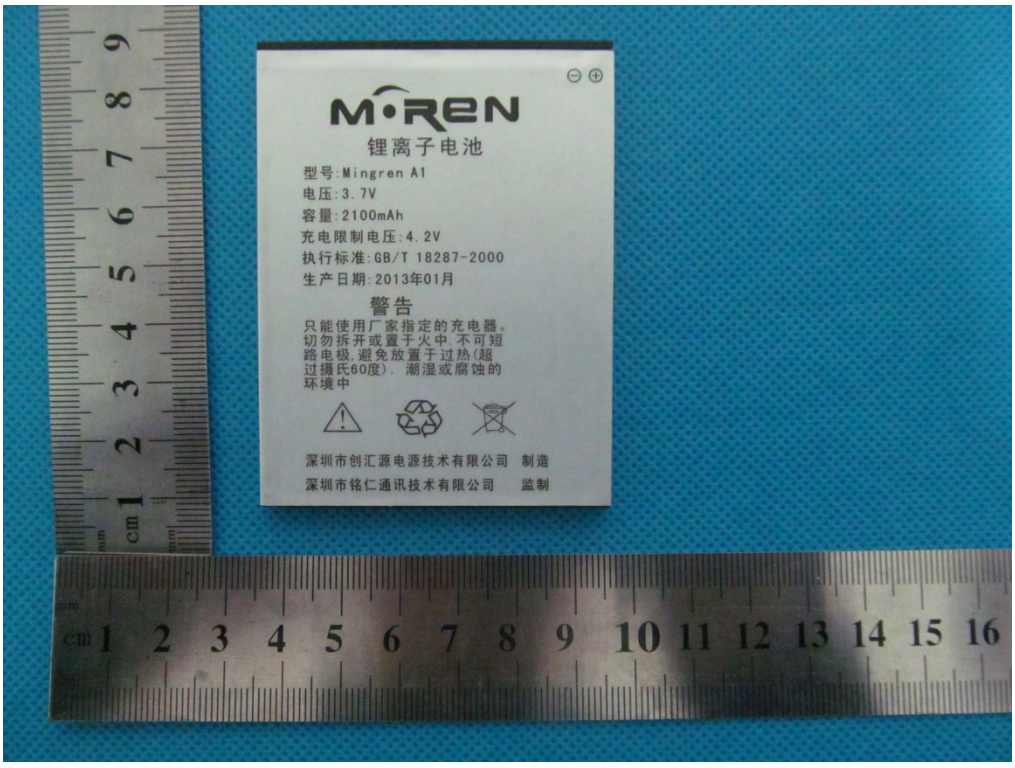
LEFT VIEW OF EUT



RIGHT VIEW OF EUT



DETAIL VIEW OF BATTERY

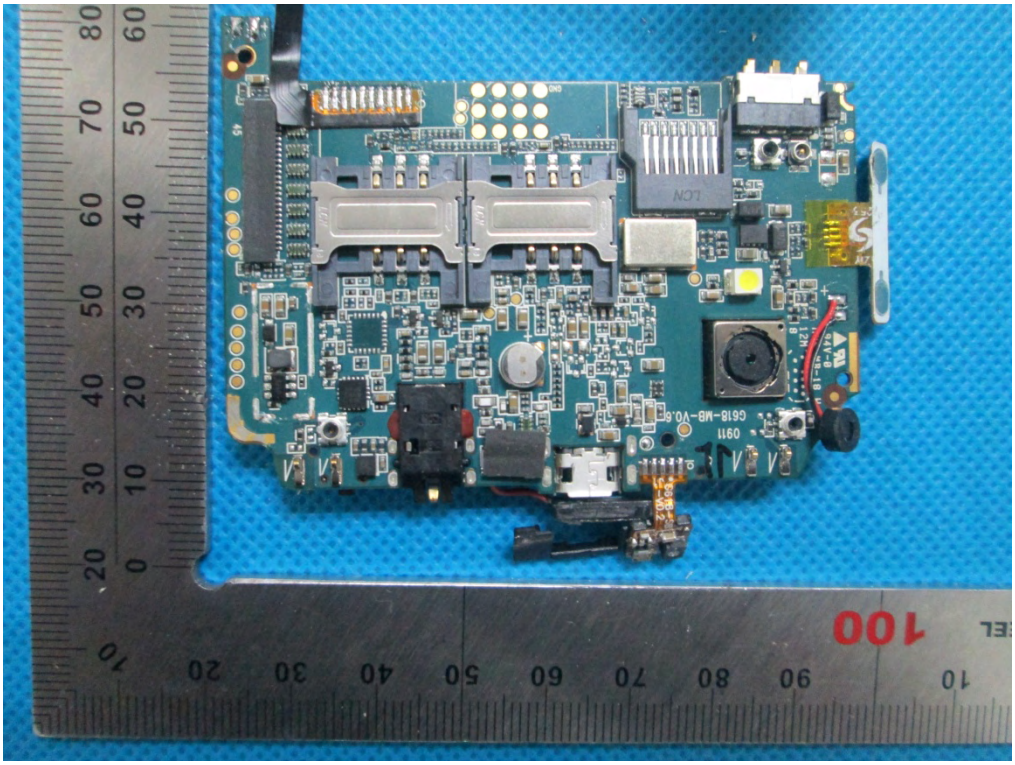


OPEN VIEW OF EUT-1

OPEN VIEW OF EUT-2

OPEN VIEW OF EUT-3

INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2