



ANNEX B

of

CCIC-SET

CONFORMANCE TEST REPORT FOR

HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SET2016-18877

LTE Ufi

Type Name: MF920T

Hardware Version: dkeB

Software Version: BD_LAMF920TV1.0.0B04

System Performance Check Data and Highest SAR Plots

This Annex consists of 16 pages

Date of Report: 2016-10-31

System Performance Check (Body, 835MHz)

Type: Validation measurement

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

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

Date of measurement: 14/10/2016

Measurement duration: 22 minutes 14seconds

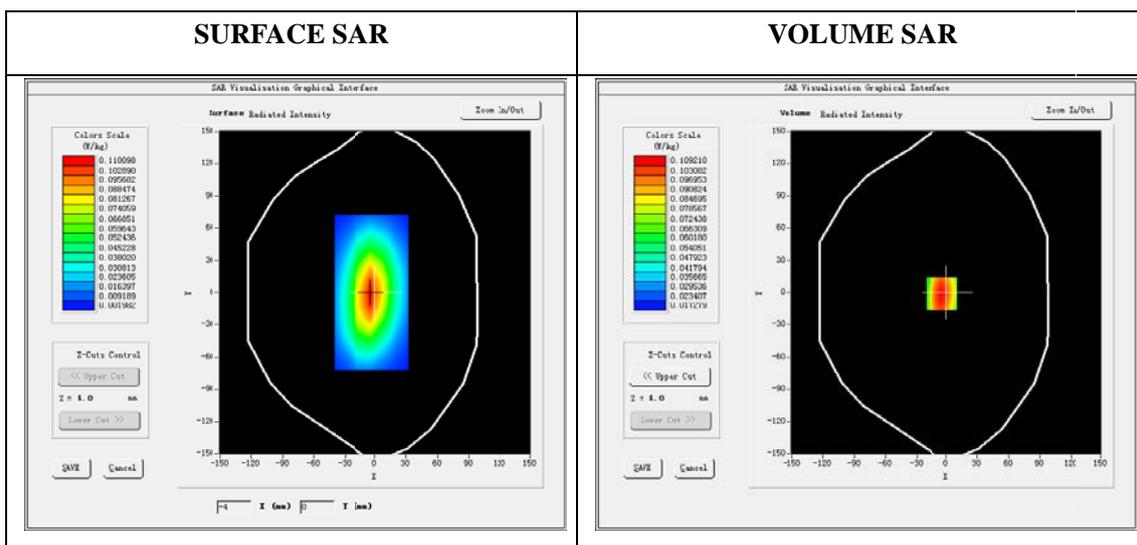
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	5x5x7,dx=8mm dy=8mm dz=5mm
Device Position	Dipole
Band	835MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

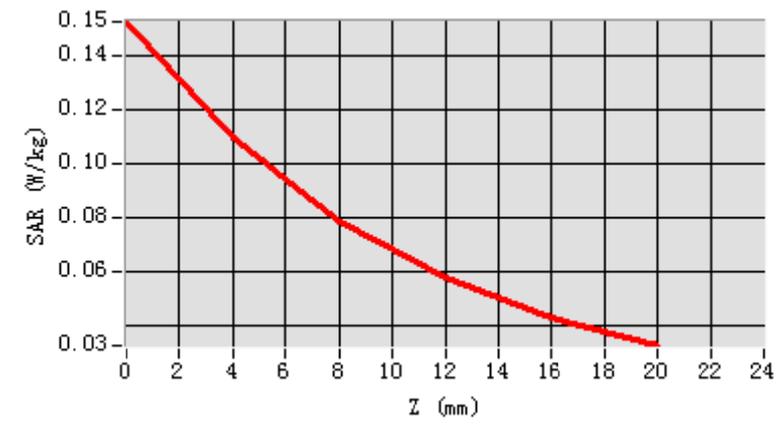
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	835
Relative permittivity (real part)	55.23
Relative permittivity	21.13
Conductivity (S/m)	0.98
Power drift (%)	1.24
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	7.07
Duty factor:	1:1

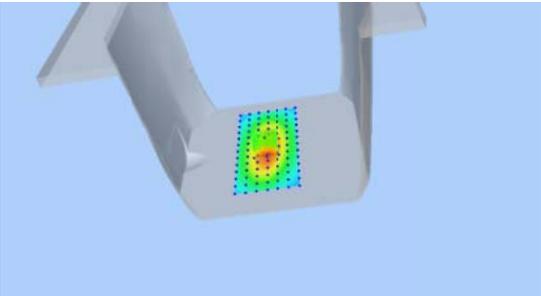
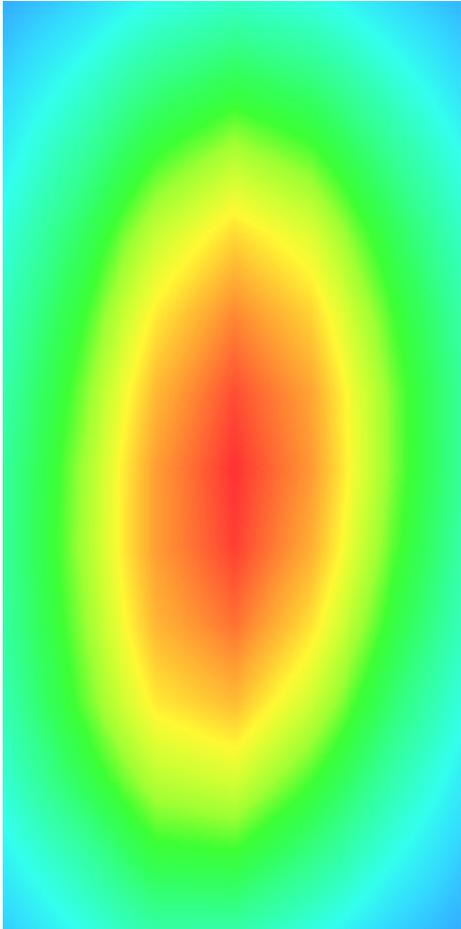


Maximum location: X=-5.00, Y=-1.00

SAR 10g (W/Kg)	0.066449
SAR 1g (W/Kg)	0.103121

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1524	0.1092	0.0785	0.0575	0.0432



3D screen shot	Hot spot position
	

System Performance Check (Body, 1800MHz)

Type: Phone measurement

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

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

Date of measurement: 15/10/2016

Measurement duration: 22 minutes 03 seconds

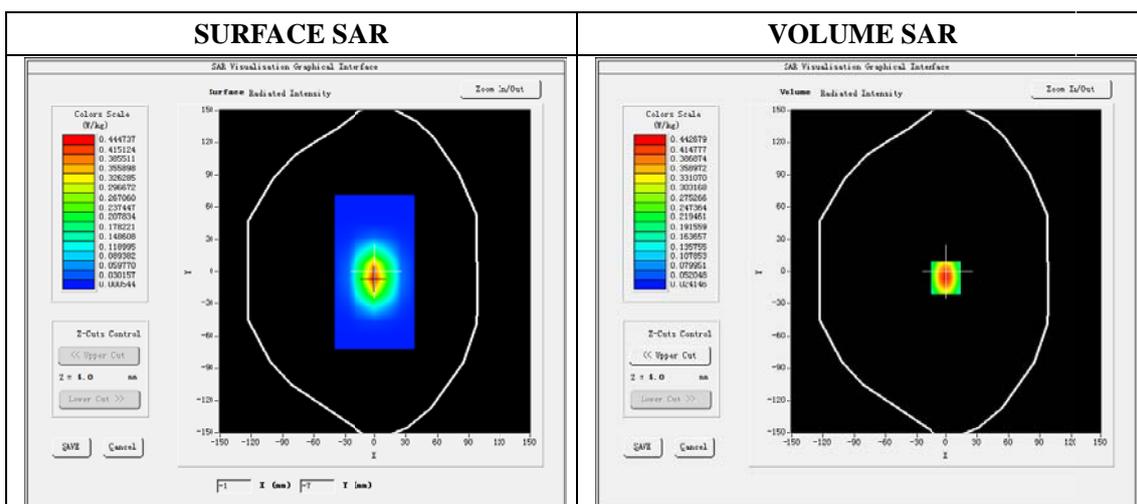
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	5x5x7,dx=8mm dy=8mm dz=5mm
Device Position	Dipole
Band	1800MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

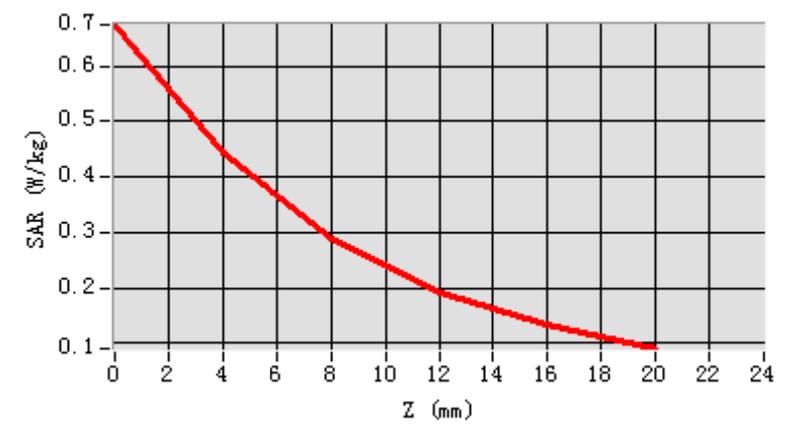
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1800
Relative permittivity (real part)	53.34
Relative permittivity	15.61
Conductivity (S/m)	1.56
Power drift (%)	-0.28
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.62
Crest factor:	1:1

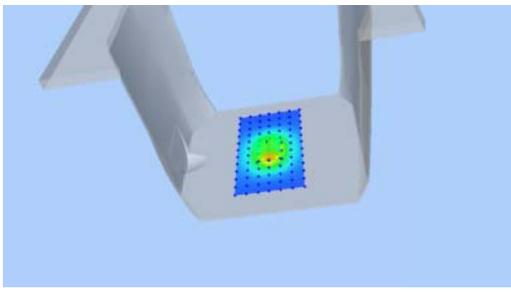
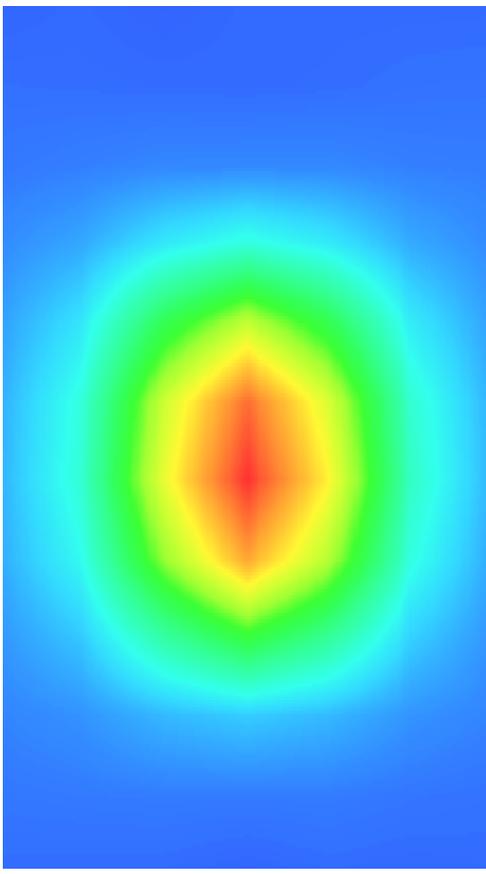


Maximum location: X=-1.00, Y=-6.00

SAR 10g (W/Kg)	0.223713
SAR 1g (W/Kg)	0.406599

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.6748	0.4427	0.2889	0.1921	0.1321



3D screen shot	Hot spot position
	

System Performance Check (Body, 1900MHz)

Type: Validation measurement

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

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

Date of measurement: 17/10/2016

Measurement duration: 21 minutes 48 seconds

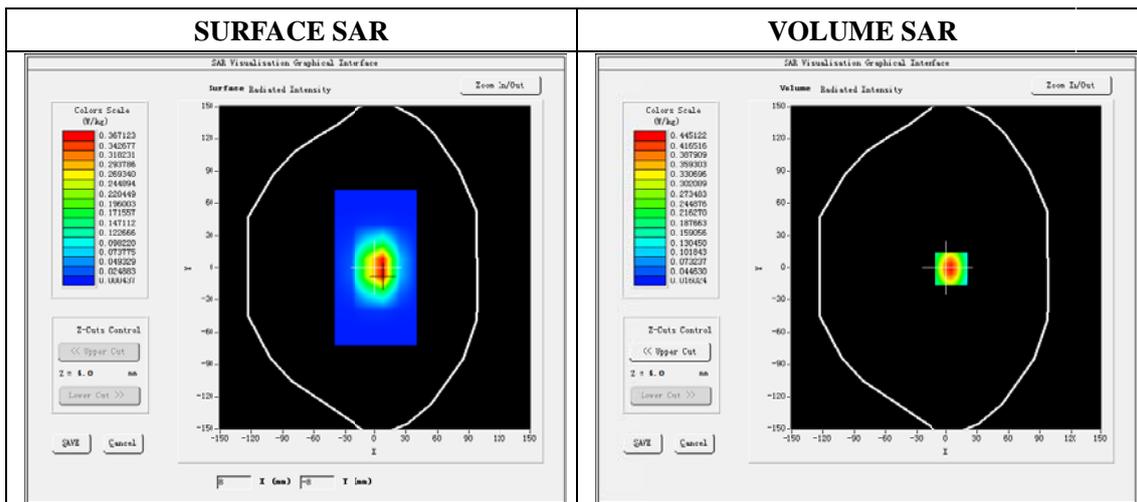
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	5x5x7,dx=8mm dy=8mm dz=5mm
Device Position	Dipole
Band	1900MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

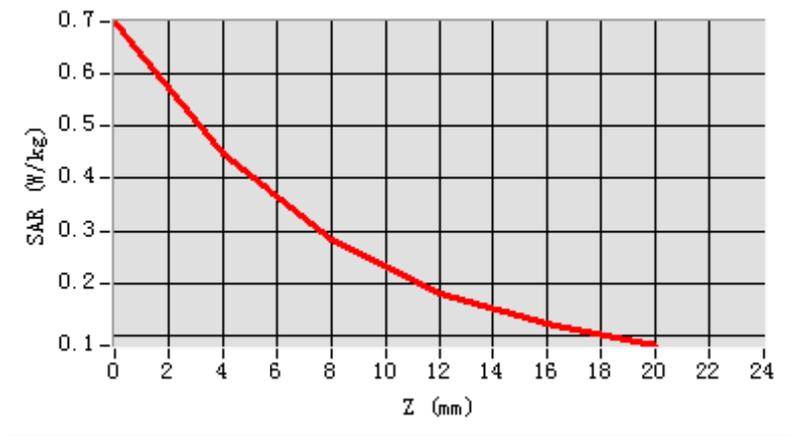
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1900
Relative permittivity (real part)	53.26
Relative permittivity	14.21
Conductivity (S/m)	1.50
Power Drift (%)	1.05
Ambient Temperature:	22.1°C
Liquid Temperature:	22.6°C
ConvF:	6.18
Duty factor:	1:1

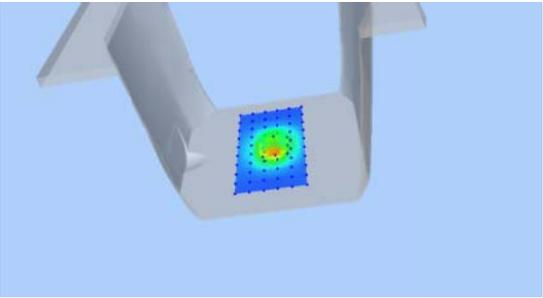
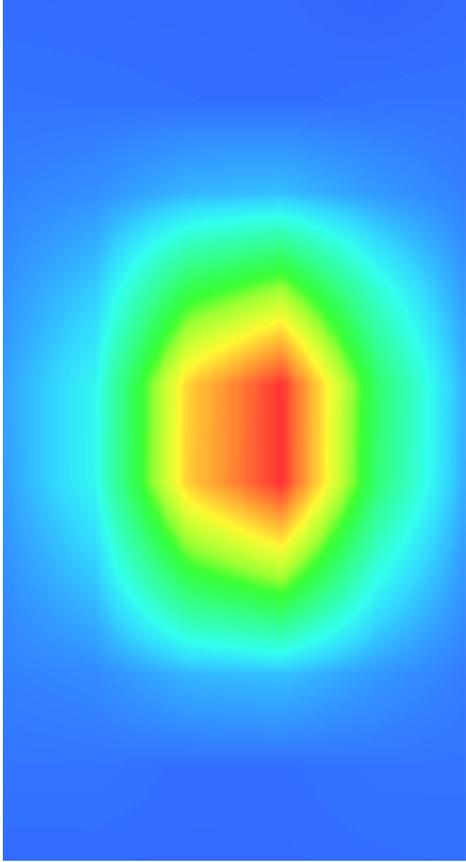


Maximum location: X=5.00, Y=-1.00

SAR 10g (W/Kg)	0.216303
SAR 1g (W/Kg)	0.407405

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.6971	0.4451	0.2821	0.1824	0.1228



3D screen shot	Hot spot position
	

System Performance Check (Body, 2450MHz)

Type: Phone measurement

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

Zoom scan resolution: dx=5mm, dy=5mm, dz=4mm

Date of measurement: 18/10/2016

Measurement duration: 22 minutes 23 seconds

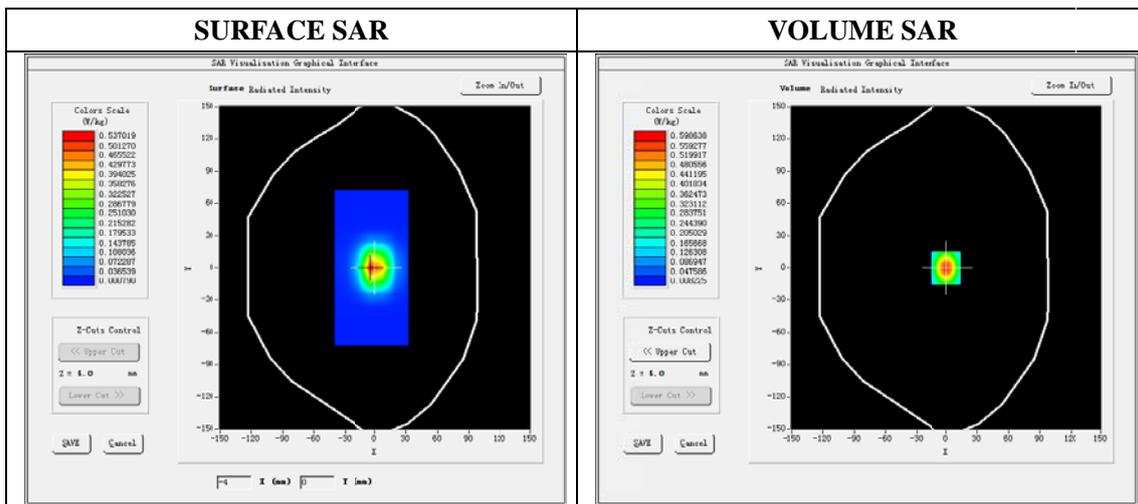
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	7x7x8,dx=5mm dy=5mm dz=4mm
Device Position	Dipole
Band	2450MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

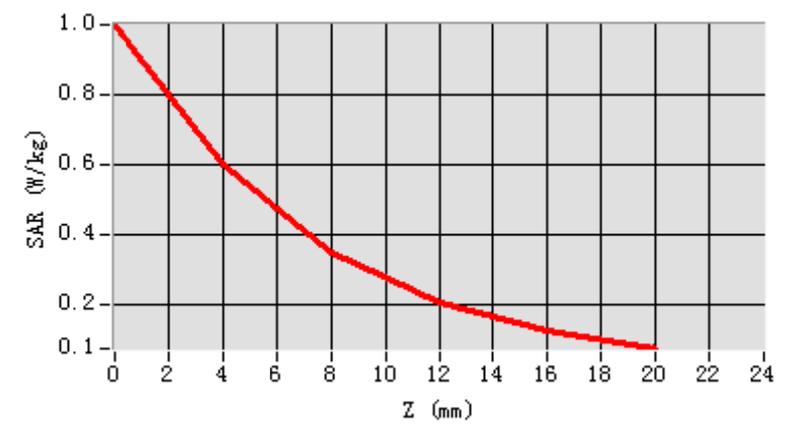
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	2450
Relative permittivity (real part)	52.66
Relative permittivity	13.97
Conductivity (S/m)	1.90
Power Drift (%)	2.75
Duty factor:	1:1
ConvF:	5.70

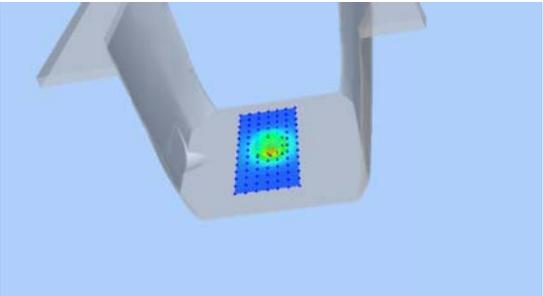
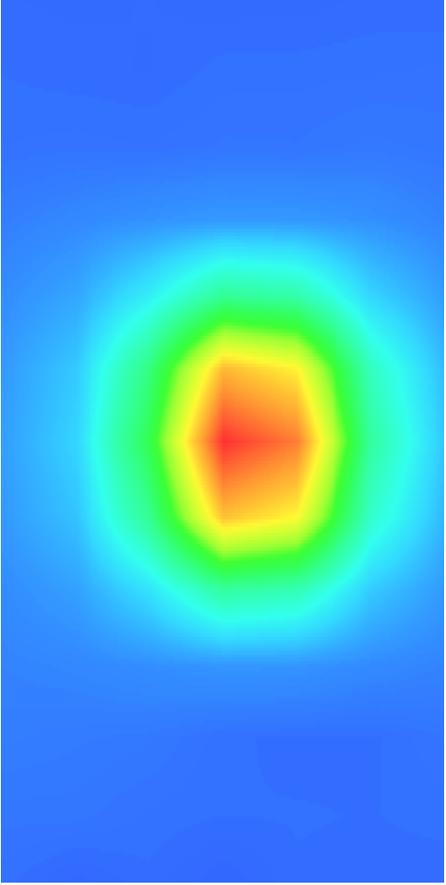


Maximum location: X=-1.00, Y=0.00

SAR 10g (W/Kg)	0.252316
SAR 1g (W/Kg)	0.535939

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.9998	0.5986	0.3506	0.2069	0.1266



3D screen shot	Hot spot position
	

System Performance Check (Body, 2600MHz)

Type: Phone measurement

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

Zoom scan resolution: dx=5mm, dy=5mm, dz=4mm

Date of measurement: 19/10/2016

Measurement duration: 22 minutes 15 seconds

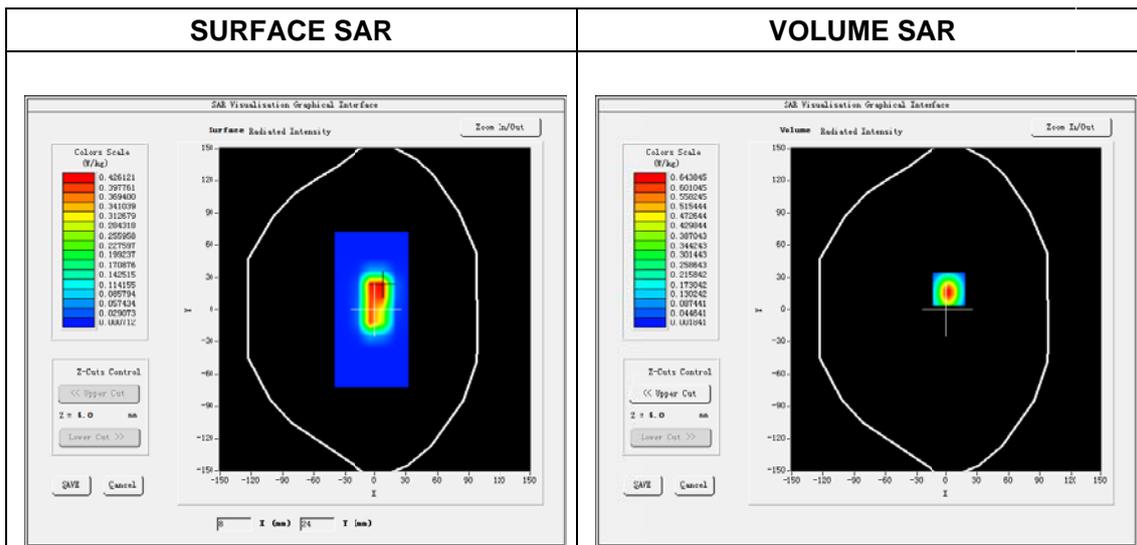
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	7x7x8,dx=5mm dy=5mm dz=4mm
Device Position	Dipole
Band	2600MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

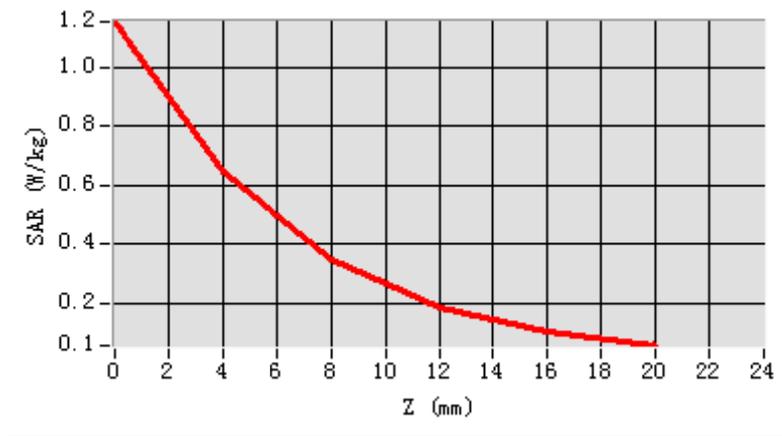
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	2600
Relative permittivity (real part)	54.23
Relative permittivity	14.37
Conductivity (S/m)	2.08
Power drift (%)	2.35
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
Crest factor:	1:1
ConvF:	5.73

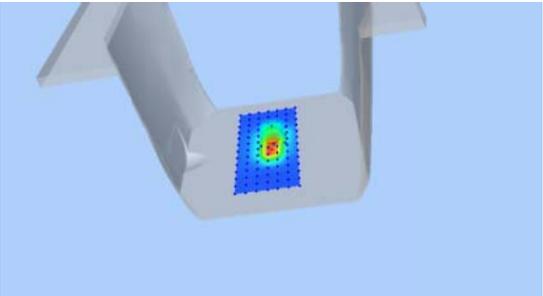
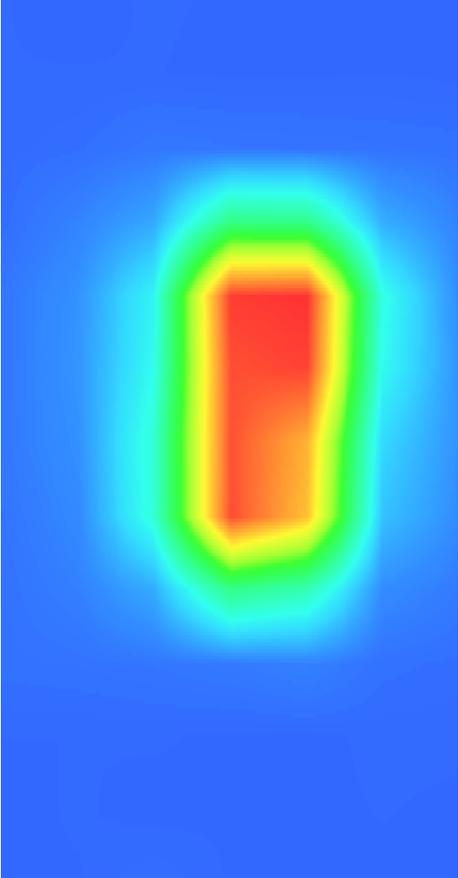


Maximum location: X=3.00, Y=19.00

SAR 10g (W/Kg)	0.241881
SAR 1g (W/Kg)	0.575809

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.1562	0.6438	0.3448	0.1843	0.1026



3D screen shot	Hot spot position
	

Plot 1: GSM850, Back, Middle

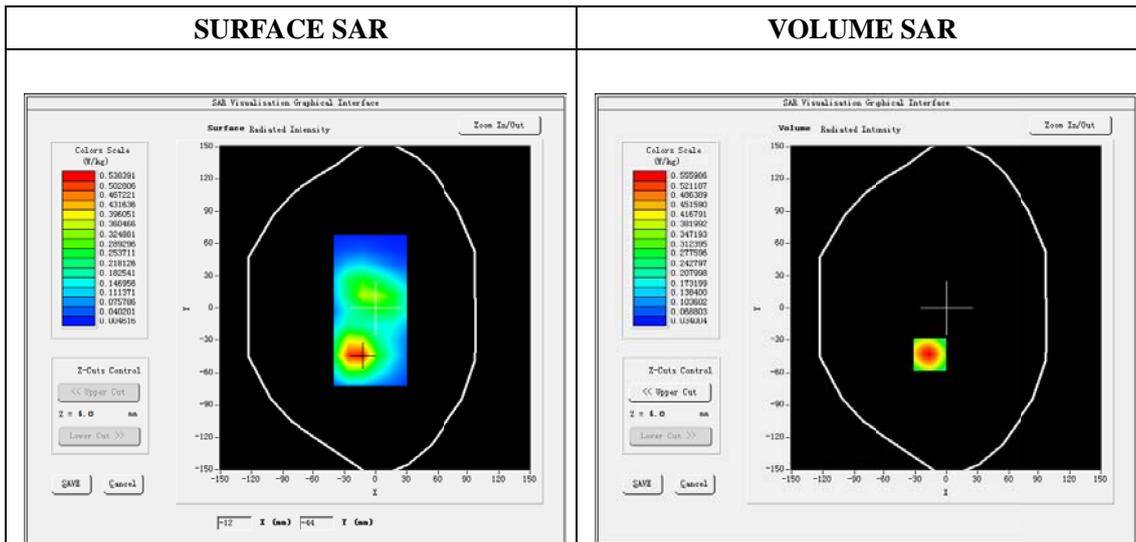
Type: Phone measurement
 Date of measurement: 14/10/2016
 Measurement duration: 22 minutes 15 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	GSPRS850_2Tx
Channels	190
Signal	GPRS(Duty cycle: 1:4)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	836.6
Relative permittivity (real part)	55.23
Relative permittivity (imaginary part)	21.13
Conductivity (S/m)	0.98
Variation (%)	-3.90
ConvF:	7.07

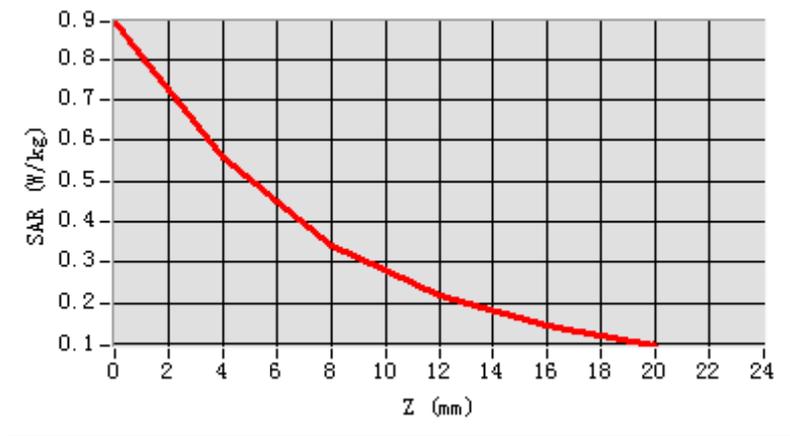


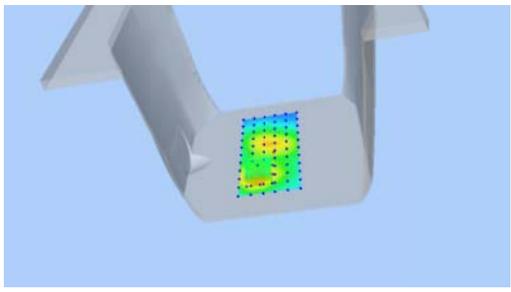
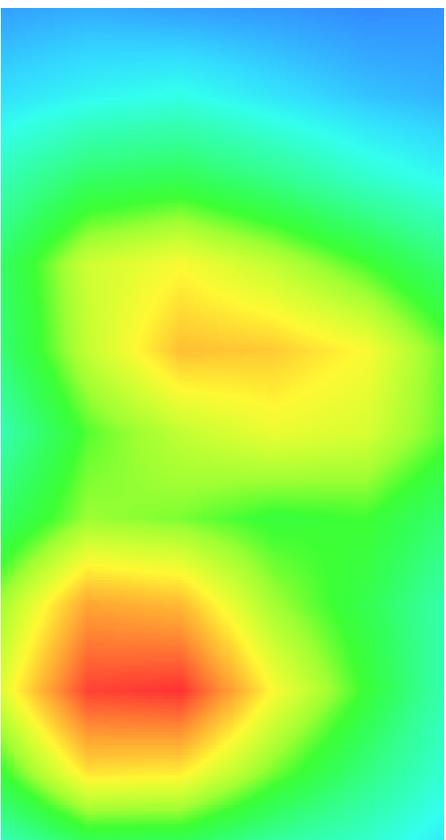
Maximum location: X=-16.00, Y=-43.00

SAR Peak: 0.89 W/kg

SAR 10g (W/Kg)	0.286298
SAR 1g (W/Kg)	0.518487

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.8923	0.5560	0.3432	0.2168	0.1438



3D screen shot	Hot spot position
	

Plot 2: GSM1900, Back Middle

Type: Phone measurement

Date of measurement: 17/10/2016

Measurement duration: 22 minutes 13 seconds

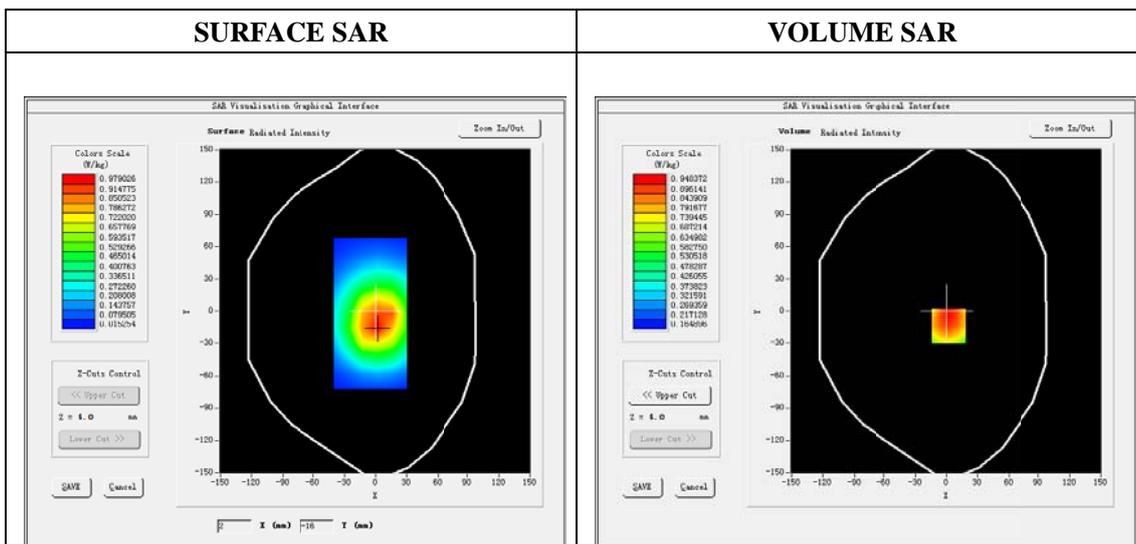
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	GPRS1900_2Tx
Channels	661
Signal	GPRS (Duty cycle: 1:4)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1880.0
Relative permittivity (real part)	53.26
Relative permittivity (imaginary part)	14.41
Conductivity (S/m)	1.50
Variation (%)	-4.24
ConvF:	6.18

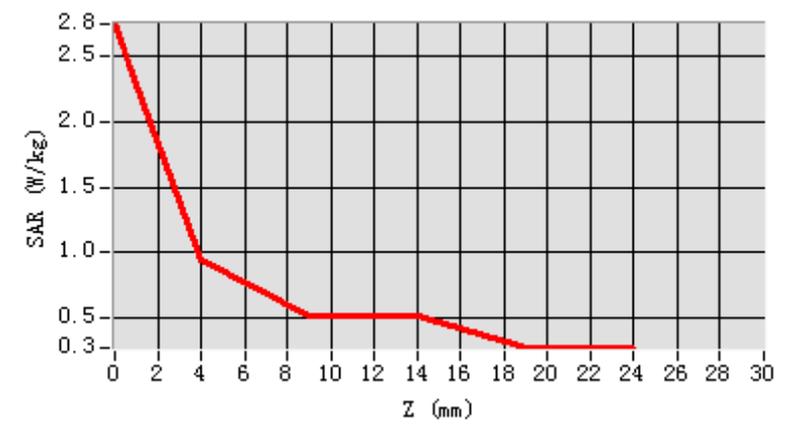


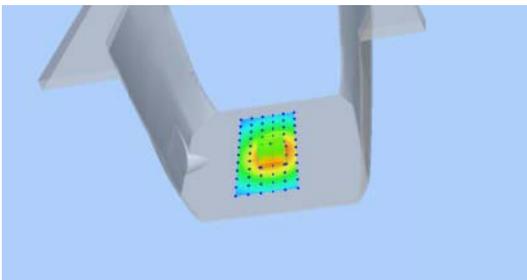
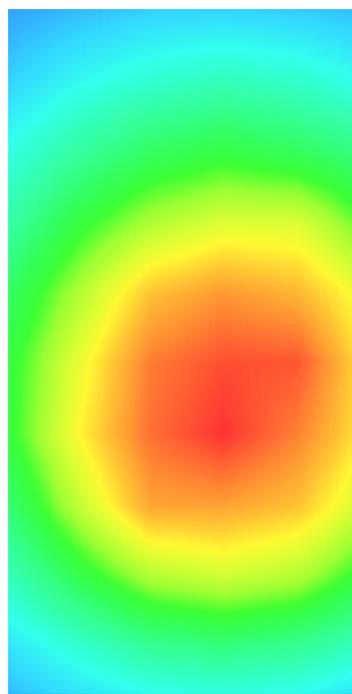
Maximum location: X=2.00, Y=-14.00

SAR Peak: 1.23 W/kg

SAR 10g (W/Kg)	0.436052
SAR 1g (W/Kg)	0.775768

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	2.7508	0.9484	0.5154	0.5111	0.2799



3D screen shot	Hot spot position
	

Plot 3: WCDMA850, Back, Middle

Type: Phone measurement

Date of measurement: 14/10/2016

Measurement duration: 22 minutes 15 seconds

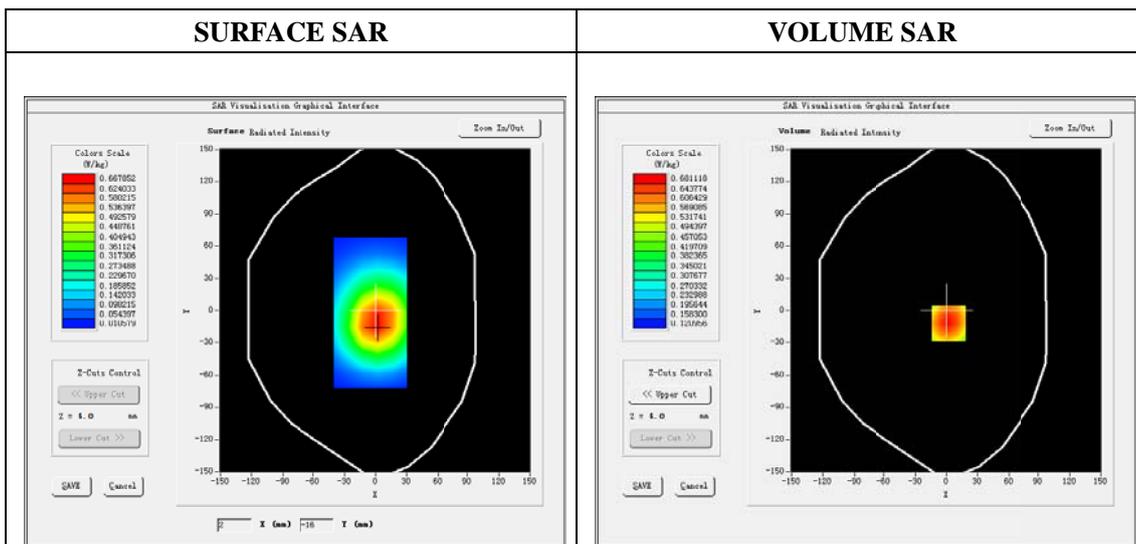
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	Band5_WCDMA850
Channels	4283
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	836.6
Relative permittivity (real part)	55.23
Relative permittivity (imaginary part)	20.13
Conductivity (S/m)	0.98
Variation (%)	0.04
ConvF:	7.07

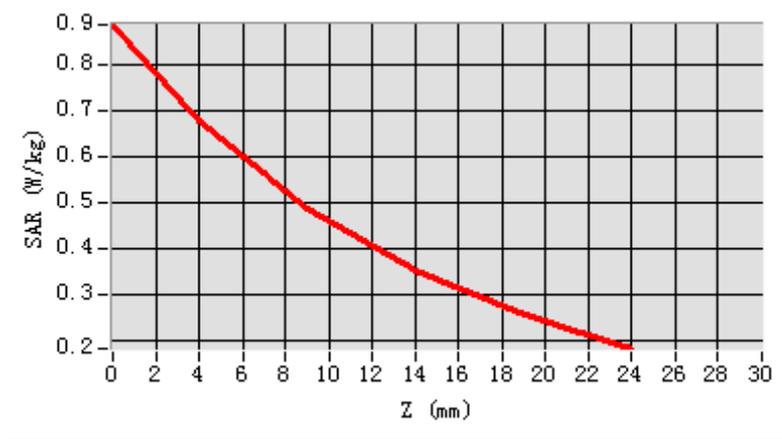


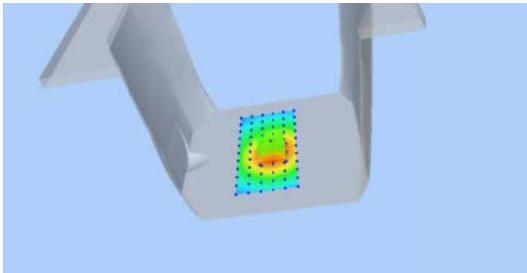
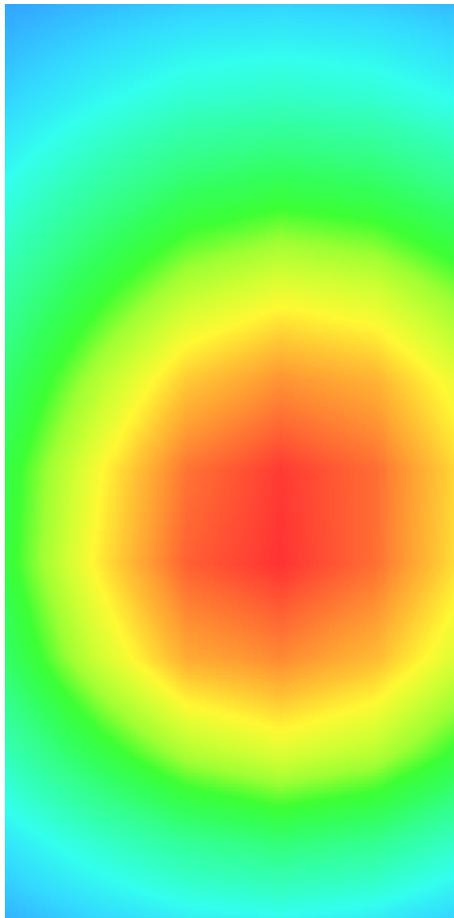
Maximum location: X=2.00, Y=-12.00

SAR Peak: 0.89 W/kg

SAR 10g (W/Kg)	0.449578
SAR 1g (W/Kg)	0.652848

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.8880	0.6811	0.4878	0.3520	0.2569



3D screen shot	Hot spot position
	

Plot 4: WCDMA1700, Back, Middle

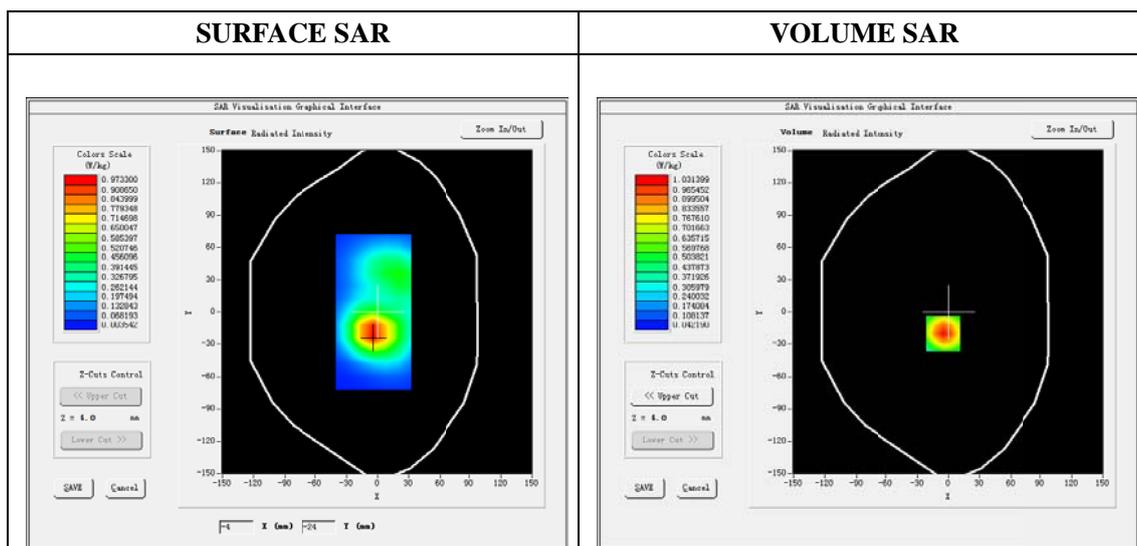
Type: Phone measurement
 Date of measurement: 15/10/2016
 Measurement duration: 22 minutes 05 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	Band2_WCDMA1700
Channels	1413
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1732.6
Relative permittivity (real part)	53.34
Relative permittivity (imaginary)	15.61
Conductivity (S/m)	1.56
Variation (%)	-1.94
ConvF:	5.62

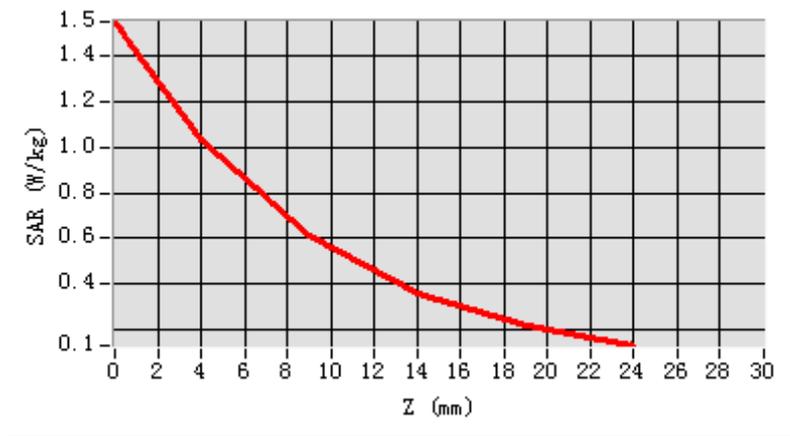


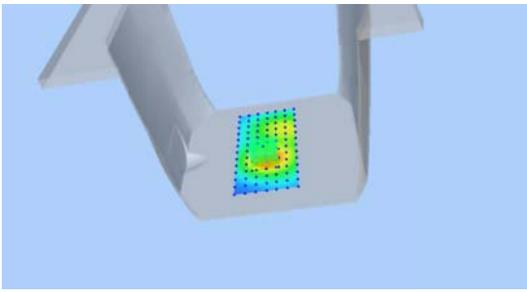
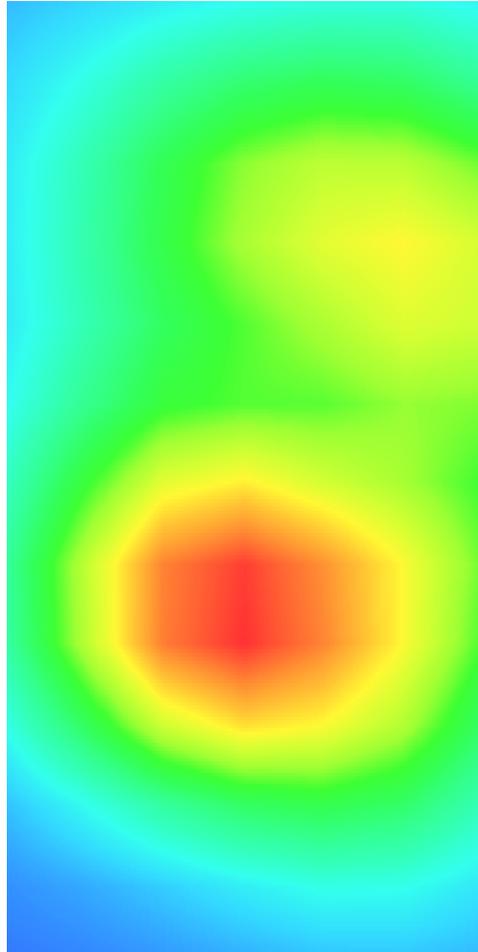
Maximum location: X=-5.00, Y=-20.00

SAR Peak: 1.55 W/kg

SAR 10g (W/Kg)	0.555149
SAR 1g (W/Kg)	0.986693

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.5460	1.0314	0.6104	0.3631	0.2224



3D screen shot	Hot spot position
	

Plot 5: WCDMA1900, Back, Middle

Type: Phone measurement

Date of measurement: 17/10/2016

Measurement duration: 22 minutes 13 seconds

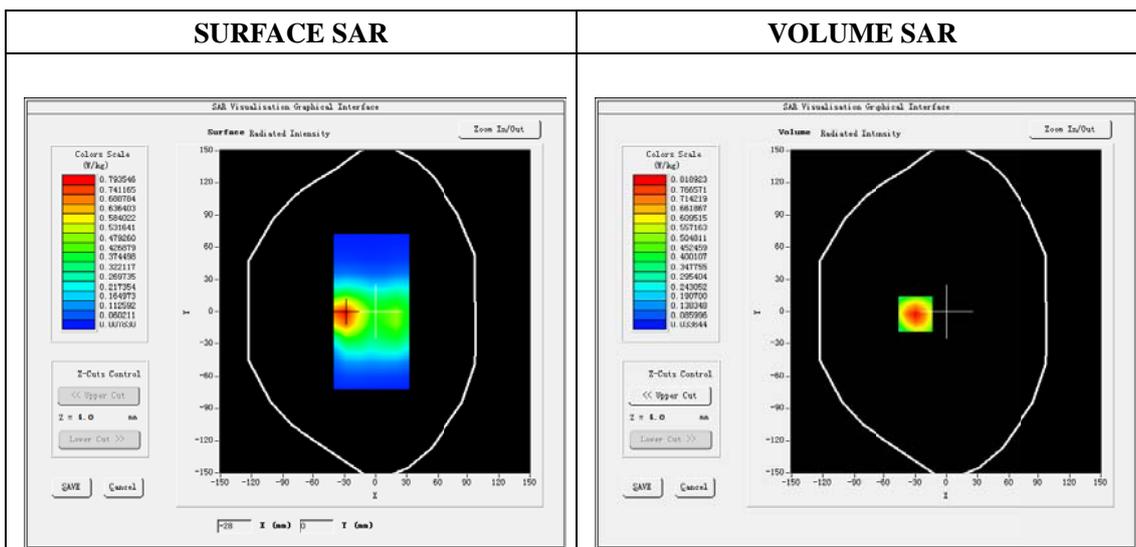
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	Band2_WCDMA1900
Channels	9538
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

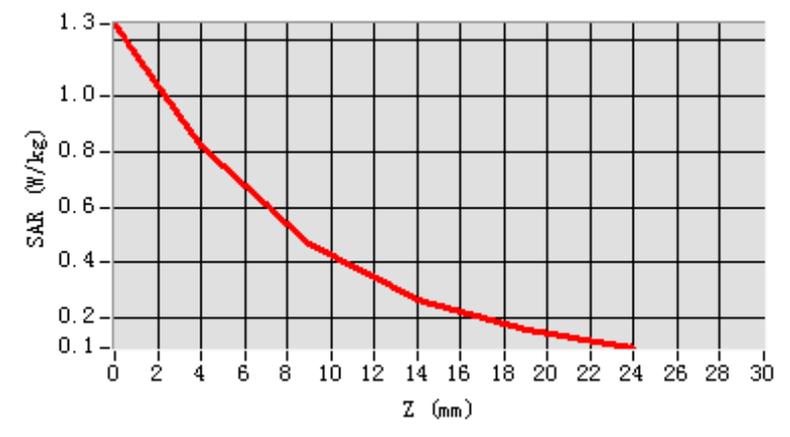
E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1907.6
Relative permittivity (real part)	53.26
Relative permittivity (imaginary)	14.21
Conductivity (S/m)	1.50
Variation (%)	1.53
ConvF:	6.18

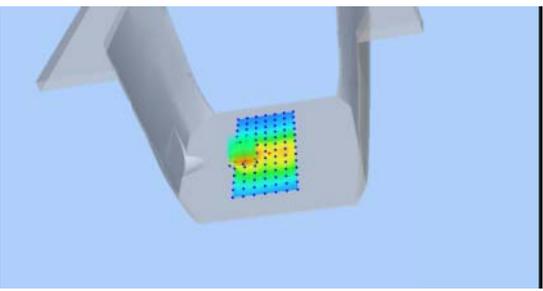
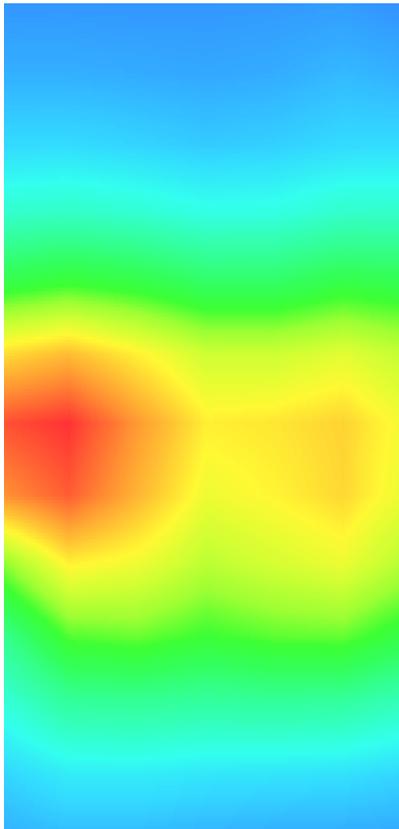


Maximum location: X=-30.00, Y=-2.00
SAR Peak: 1.26 W/kg

SAR 10g (W/Kg)	0.431263
SAR 1g (W/Kg)	0.757506

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.2606	0.8189	0.4668	0.2676	0.1594



3D screen shot	Hot spot position
	

Plot 6: LTE Band4, 20MHz, Back Middle

Type: Phone measurement

Date of measurement: 15/10/2016

Measurement duration: 22 minutes 12 seconds

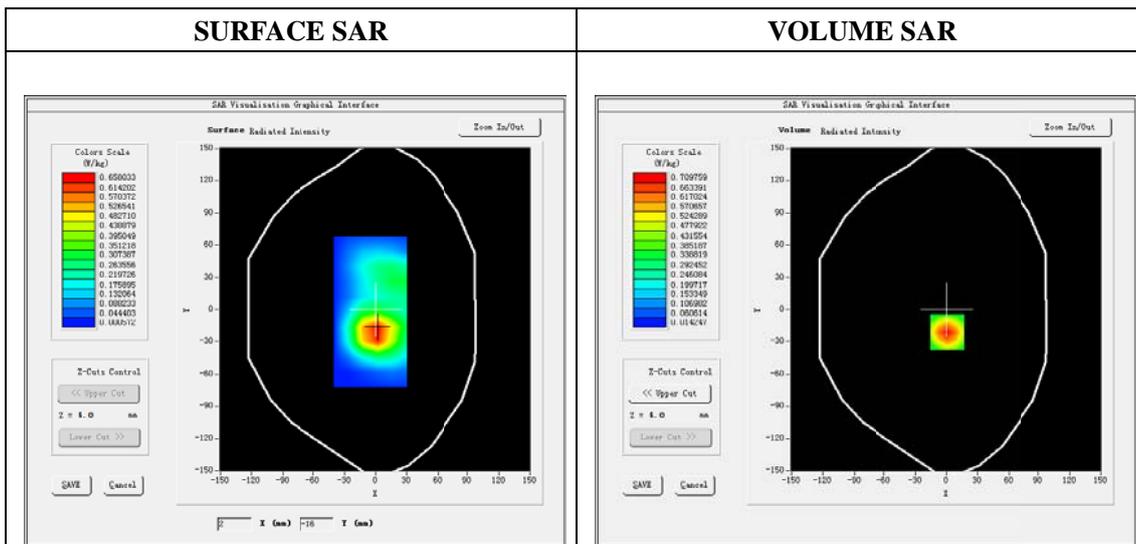
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	LTE Band 4
Channels	20175
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1732.5
Relative permittivity (real part)	53.34
Relative permittivity (imaginary)	15.61
Conductivity (S/m)	1.56
Variation (%)	-2.38
ConvF:	5.62

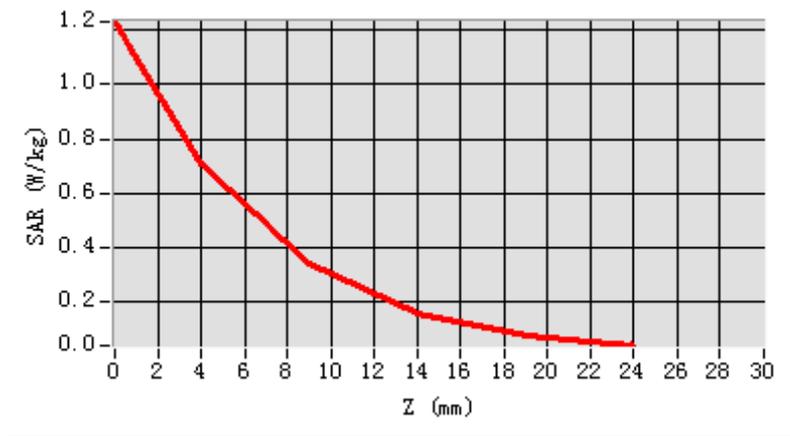


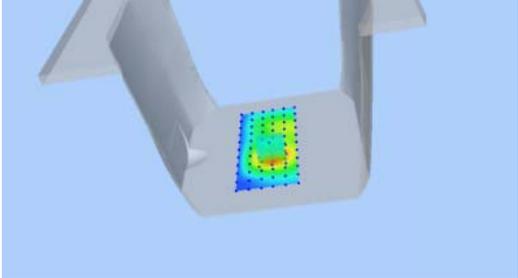
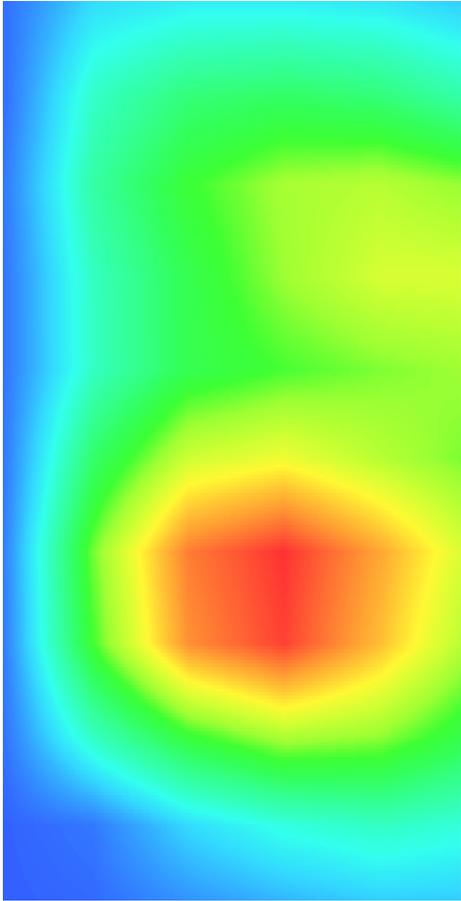
Maximum location: X=1.00, Y=-21.00

SAR Peak: 1.23 W/kg

SAR 10g (W/Kg)	0.254617
SAR 1g (W/Kg)	0.337461

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.2314	0.7098	0.3357	0.1556	0.0765



3D screen shot	Hot spot position
	

Plot 7: LTE Band7, 20MHz, Back, Middle

Type: Phone measurement

Date of measurement: 19/10/2016

Measurement duration: 22 minutes 11 seconds

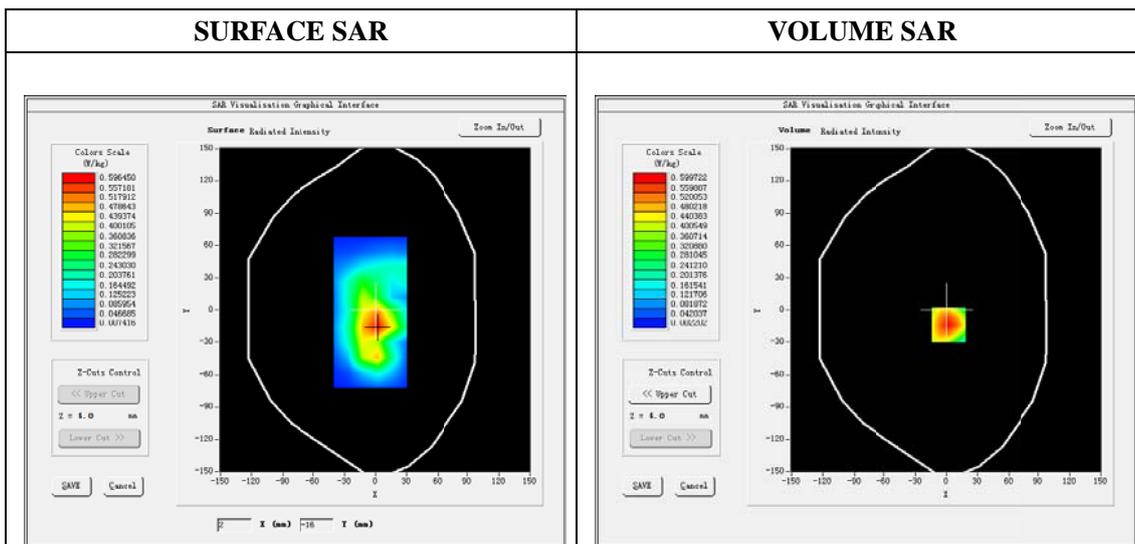
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	LTE Band 7
Channels	21100
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	2535
Relative permittivity (real part)	52.23
Relative permittivity (imaginary)	14.37
Conductivity (S/m)	2.08
Variation (%)	3.19
ConvF:	5.73

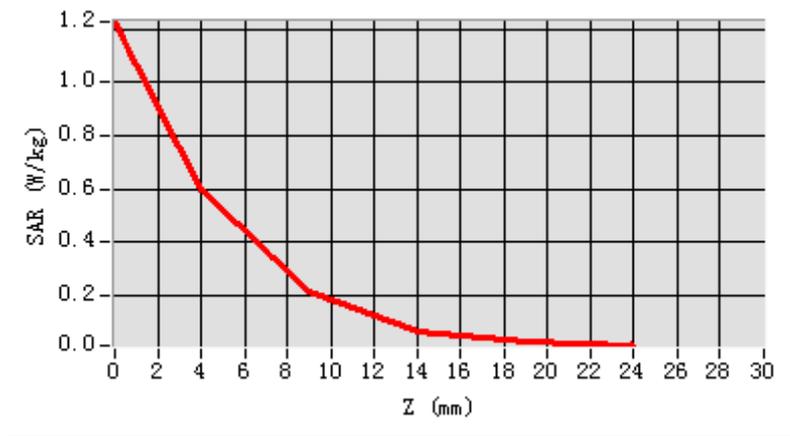


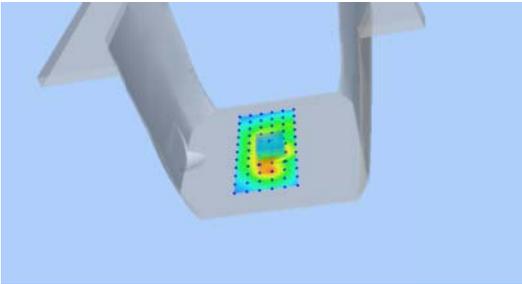
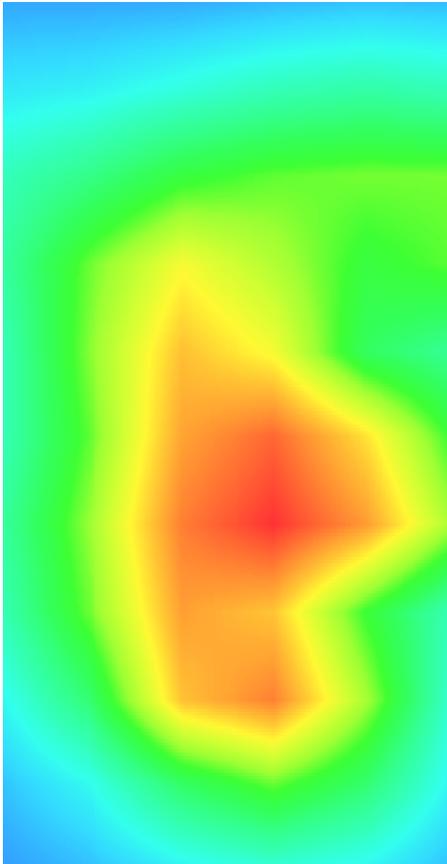
Maximum location: X=2.00, Y=-14.00

SAR Peak: 1.23 W/kg

SAR 10g (W/Kg)	0.269689
SAR 1g (W/Kg)	0.580317

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.2285	0.5997	0.2106	0.0664	0.0238



3D screen shot	Hot spot position
	

Plot 8: WIFI Face, Middle

Type: Phone measurement

Date of measurement: 18/10/2016

Measurement duration: 22 minutes 11 seconds

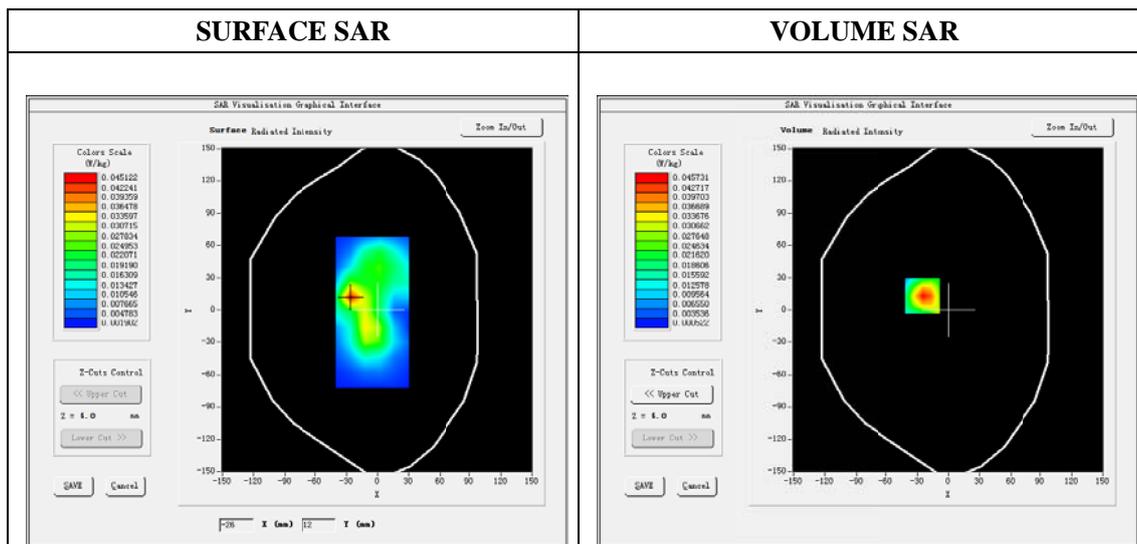
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face
Band	WIFI
Channels	6
Signal	OFDM (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	2437
Relative permittivity (real part)	52.66
Relative permittivity (imaginary)	13.97
Conductivity (S/m)	1.90
Variation (%)	2.41
ConvF:	5.70

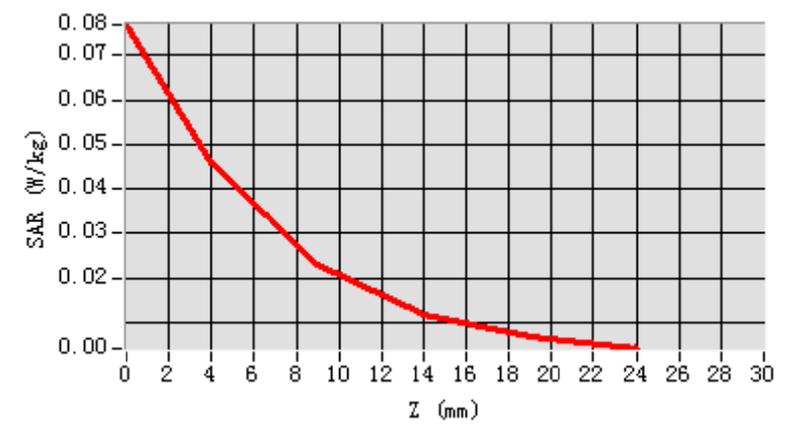


Maximum location: X=-25.00, Y=13.00

SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.021443
SAR 1g (W/Kg)	0.042977

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0769	0.0457	0.0230	0.0119	0.0068



3D screen shot	Hot spot position
