

Annex B: Measurement Results

Project Name: W3

Report Number:

FCC16093987A-6



Type: Phone measurement (Complete)

Date of measurement: 6/10/2016

Measurement duration: 9 minutes 18 seconds

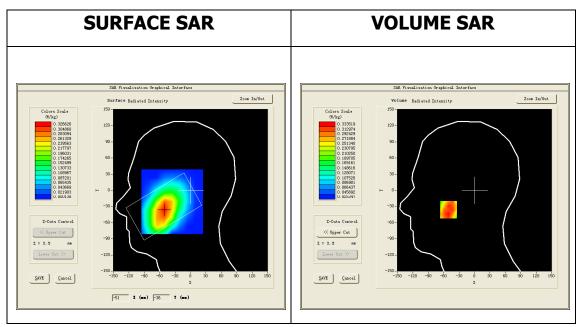
A. Experimental conditions.

<u>Area Scan</u>	dx=15mm dy=15mm	
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete	
<u>Phantom</u>	Right head	
<u>Device Position</u>	<u>Cheek</u>	
<u>Band</u>	CUSTOM (GPRS850 4Tx)	
<u>Channels</u>	Low	
<u>Signal</u>	Duty Cycle: 2.00 (Crest factor: 2.0)	
Conversion factor	<u>4.93</u>	

C. SAR Measurement Results

Frequency (MHz)	824.200012
Relative permittivity (real part)	40.336941
Relative permittivity (imaginary part)	19.790300
Conductivity (S/m)	0.906176
Variation (%)	-1.560000

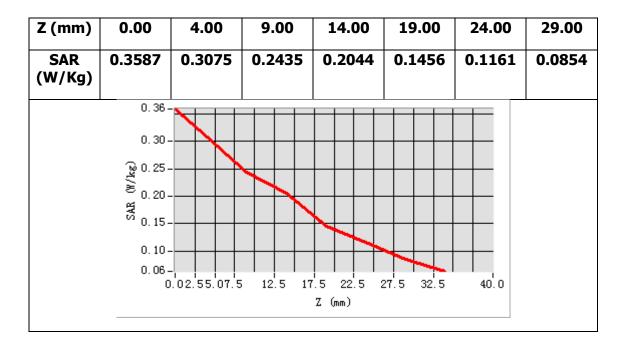


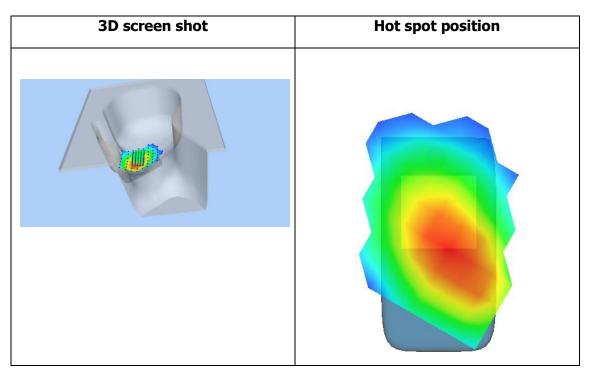


Maximum location: X=-51.00, Y=-36.00

SAR Peak: 0.45 W/kg

SAR 10g (W/Kg)	0.230416
SAR 1g (W/Kg)	0.323298







Rear-side-low

Type: Phone measurement (Complete)

Date of measurement: 6/10/2016

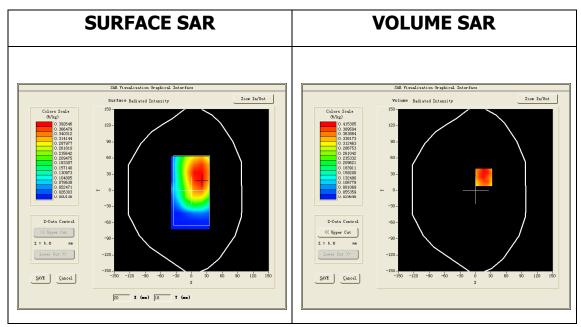
Measurement duration: 11 minutes 21 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=15mm dy=15mm	
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete	
<u>Phantom</u>	<u>Validation plane</u>	
<u>Device Position</u>	<u>Body</u>	
<u>Band</u>	CUSTOM (GPRS850 4Tx)	
<u>Channels</u>	<u>Low</u>	
<u>Signal</u>	Duty Cycle: 2.00 (Crest factor: 2.0)	
Conversion factor	<u>5.07</u>	

C. SAR Measurement Results

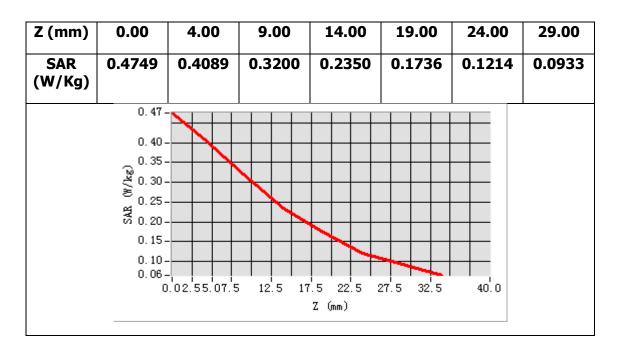
Frequency (MHz)	824.200012
Relative permittivity (real part)	40.676079
Relative permittivity (imaginary part)	19.941540
Conductivity (S/m)	0.913101
Variation (%)	1.210000

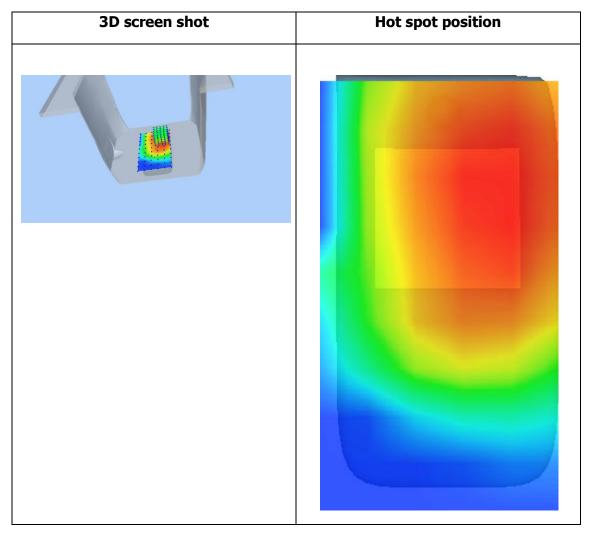


Maximum location: X=16.00, Y=24.00

SAR Peak: 0.56 W/kg

SAR 10g (W/Kg)	0.293887
SAR 1g (W/Kg)	0.418719







Towards-ground-low

Type: Phone measurement (Complete)

Date of measurement: 6/10/2016

Measurement duration: 11 minutes 24 seconds

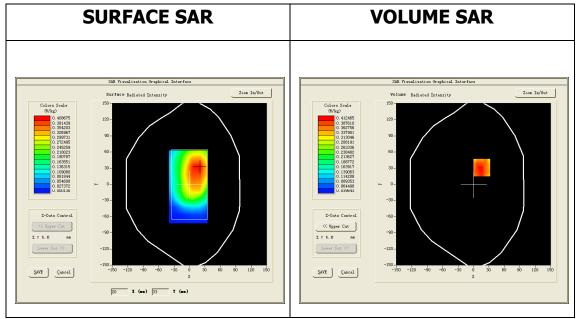
A. Experimental conditions.

<u>Area Scan</u>	dx=15mm dy=15mm	
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete	
<u>Phantom</u>	<u>Validation plane</u>	
<u>Device Position</u>	Body	
<u>Band</u>	CUSTOM (GPRS850 4Tx)	
<u>Channels</u>	<u>Low</u>	
<u>Signal</u>	Duty Cycle: 2.00 (Crest factor: 2.0)	
Conversion factor	5.07	

C. SAR Measurement Results

Frequency (MHz)	824.200012
Relative permittivity (real part)	40.676079
Relative permittivity (imaginary part)	19.941540
Conductivity (S/m)	0.913101
Variation (%)	1.600000

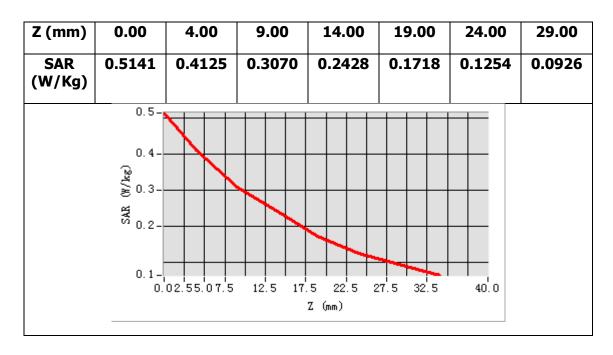


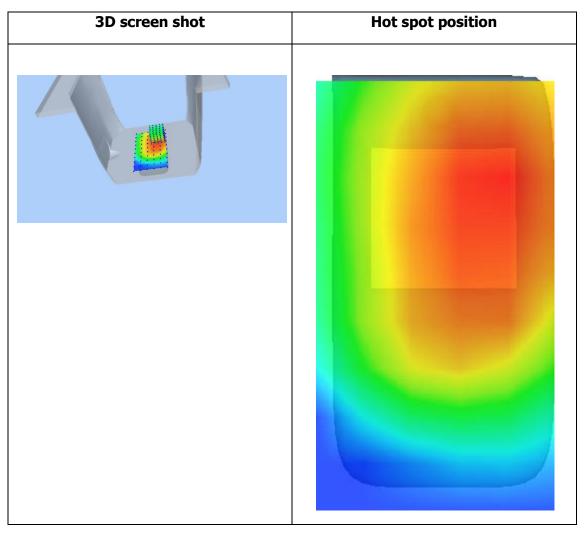


Maximum location: X=16.00, Y=31.00

SAR Peak: 0.54 W/kg

SAR 10g (W/Kg)	0.287104
SAR 1g (W/Kg)	0.413242







Type: Phone measurement (Complete)

Date of measurement: 11/10/2016

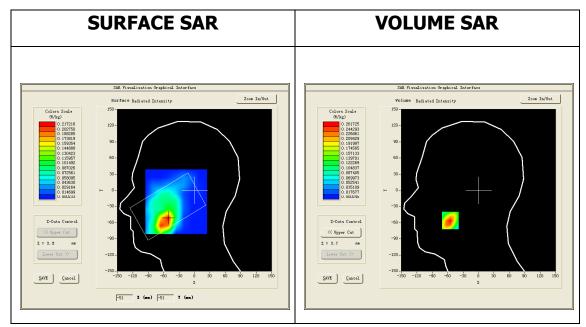
Measurement duration: 10 minutes 19 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=15mm dy=15mm	
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete	
<u>Phantom</u>	<u>Right head</u>	
<u>Device Position</u>	<u>Cheek</u>	
<u>Band</u>	CUSTOM (GPRS1900 4Tx)	
<u>Channels</u>	<u>Middle</u>	
<u>Signal</u>	Duty Cycle: 2.00 (Crest factor: 2.0)	
Conversion factor	<u>4.63</u>	

C. SAR Measurement Results

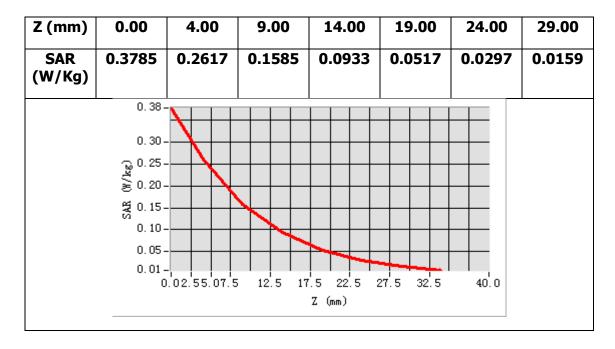
Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.914200
Relative permittivity (imaginary part)	13.434300
Conductivity (S/m)	1.403138
Variation (%)	-2.020000

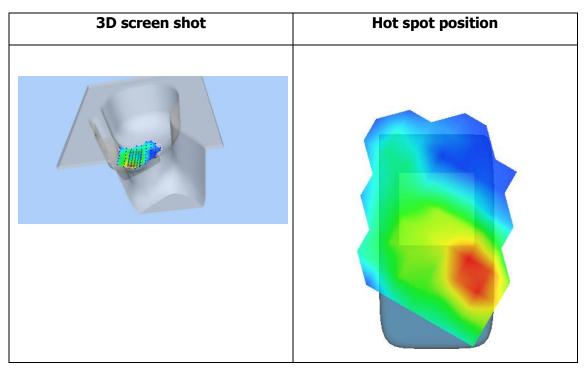


Maximum location: X=-55.00, Y=-56.00

SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.134466
SAR 1g (W/Kg)	0.246090







Bottom-Side-middle

Type: Phone measurement (Complete)

Date of measurement: 11/10/2016

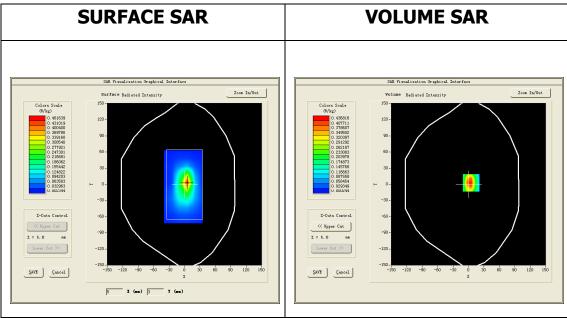
Measurement duration: 10 minutes 57 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=15mm dy=15mm	
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete	
<u>Phantom</u>	<u>Validation plane</u>	
<u>Device Position</u>	Body	
<u>Band</u>	CUSTOM (GPRS1900 4Tx)	
<u>Channels</u>	<u>Middle</u>	
<u>Signal</u>	Duty Cycle: 2.00 (Crest factor: 2.0)	
Conversion factor	4.78	

C. SAR Measurement Results

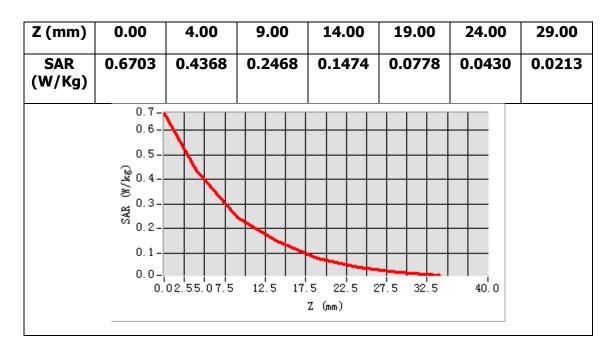
Frequency (MHz)	1880.000000
Relative permittivity (real part)	53.356098
Relative permittivity (imaginary part)	14.668600
Conductivity (S/m)	1.532054
Variation (%)	-1.250000

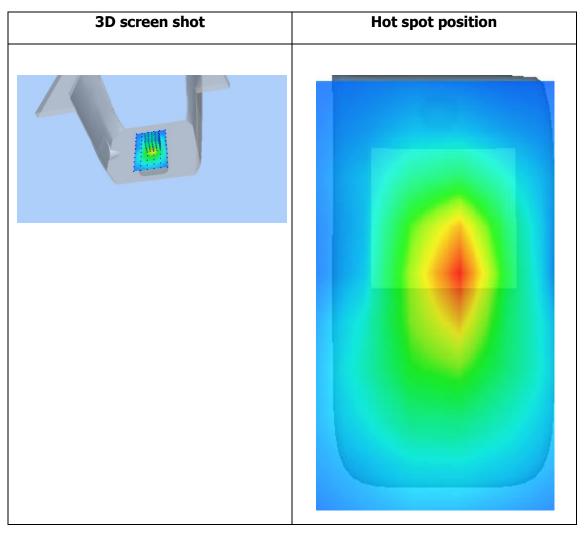


Maximum location: X=5.00, Y=3.00

SAR Peak: 0.71 W/kg

SAR 10g (W/Kg)	0.215008
SAR 1g (W/Kg)	0.435121







Towards-phantom-middle

Type: Phone measurement (Complete)

Date of measurement: 11/10/2016

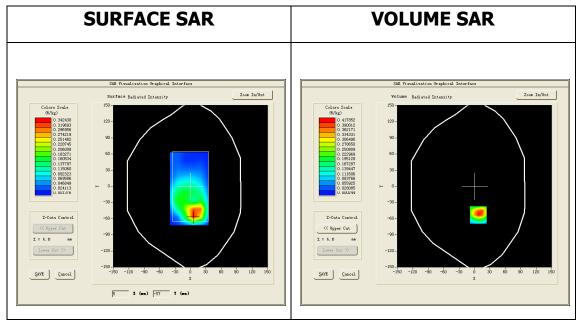
Measurement duration: 11 minutes 3 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=15mm dy=15mm	
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete	
<u>Phantom</u>	<u>Validation plane</u>	
<u>Device Position</u>	Body	
<u>Band</u>	CUSTOM (GPRS1900 4Tx)	
<u>Channels</u>	<u>Middle</u>	
<u>Signal</u>	Duty Cycle: 2.00 (Crest factor: 2.0)	
Conversion factor	<u>4.78</u>	

C. SAR Measurement Results

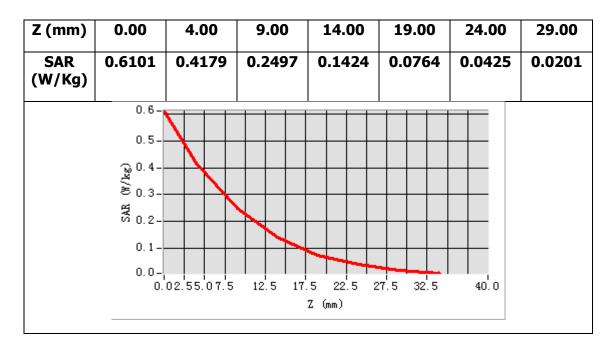
Frequency (MHz)	1880.000000
Relative permittivity (real part)	53.356098
Relative permittivity (imaginary part)	14.668600
Conductivity (S/m)	1.532054
Variation (%)	1.510000

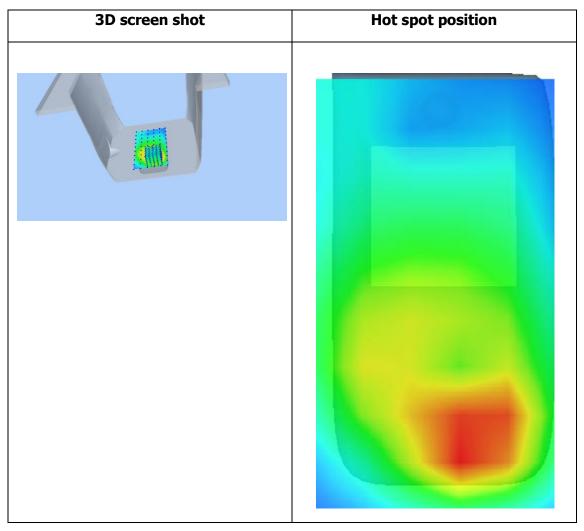


Maximum location: X=7.00, Y=-53.00

SAR Peak: 0.68 W/kg

SAR 10g (W/Kg)	0.208406
SAR 1g (W/Kg)	0.413752







Type: Phone measurement (Complete)

Date of measurement: 7/10/2016

Measurement duration: 13 minutes 16 seconds

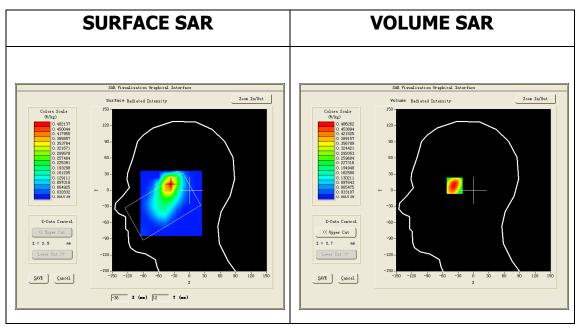
A. Experimental conditions.

<u>Area Scan</u>	dx=15mm dy=15mm	
<u>ZoomScan</u>	7x7x7,dx=5mm dy=5mm dz=5mm,Complete	
<u>Phantom</u>	<u>Right head</u>	
<u>Device Position</u>	<u>Cheek</u>	
<u>Band</u>	<u>IEEE 802.11b ISM</u>	
<u>Channels</u>	<u>Low</u>	
<u>Signal</u>	IEEE802.b (Crest factor: 1.0)	
Conversion factor	4.00	

C. SAR Measurement Results

Lower Band SAR (Channel 1):

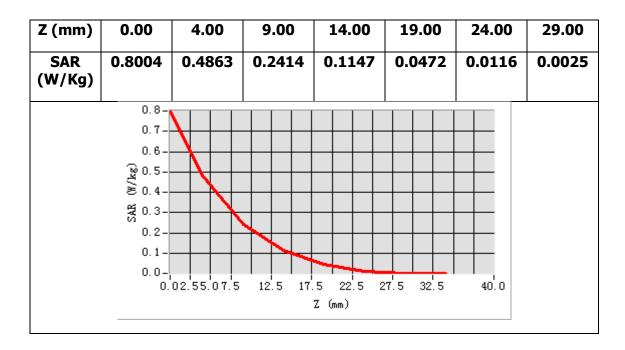
Frequency (MHz)	2412.000000
Relative permittivity (real part)	39.006599
Relative permittivity (imaginary part)	13.260500
Conductivity (S/m)	1.776907
Variation (%)	-1.290000

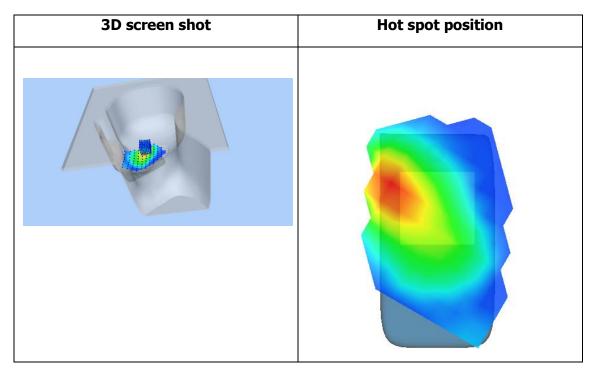


Maximum location: X=-37.00, Y=11.00

SAR Peak: 0.81 W/kg

SAR 10g (W/Kg)	0.232017
SAR 1g (W/Kg)	0.464182







Front-side-low

Type: Phone measurement (Complete)

Date of measurement: 7/10/2016

Measurement duration: 11 minutes 39 seconds

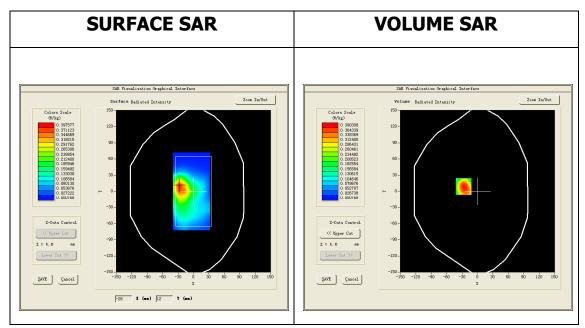
A. Experimental conditions.

<u>Area Scan</u>	dx=15mm dy=15mm	
<u>ZoomScan</u>	7x7x7,dx=5mm dy=5mm dz=5mm,Complete	
<u>Phantom</u>	<u>Validation plane</u>	
<u>Device Position</u>	<u>Body</u>	
<u>Band</u>	IEEE 802.11b ISM	
<u>Channels</u>	<u>Low</u>	
<u>Signal</u>	IEEE802.b (Crest factor: 1.0)	
Conversion factor	4.11	

C. SAR Measurement Results

Lower Band SAR (Channel 1):

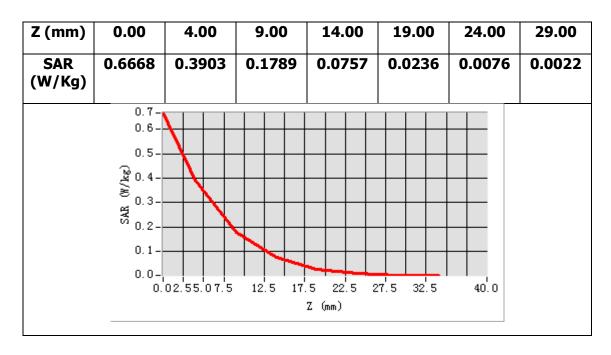
Frequency (MHz)	2412.000000
Relative permittivity (real part)	52.417801
Relative permittivity (imaginary part)	14.706300
Conductivity (S/m)	1.970644
Variation (%)	-4.050000

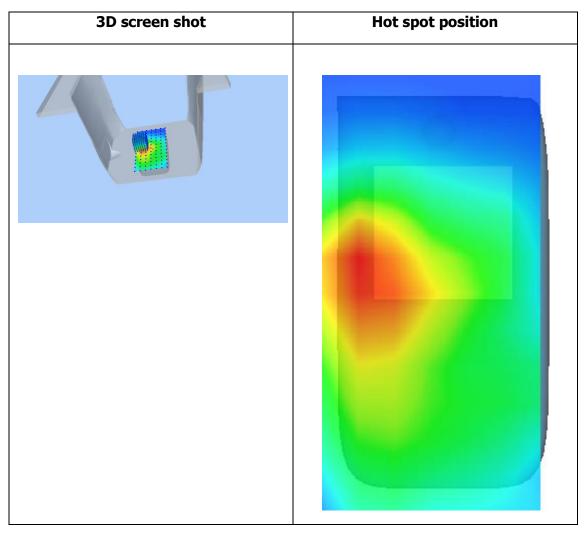


Maximum location: X=-27.00, Y=9.00

SAR Peak: 0.73 W/kg

SAR 10g (W/Kg)	0.204110
SAR 1g (W/Kg)	0.415869







Towards-phantom-low

Type: Phone measurement (Complete)

Date of measurement: 7/10/2016

Measurement duration: 11 minutes 41 seconds

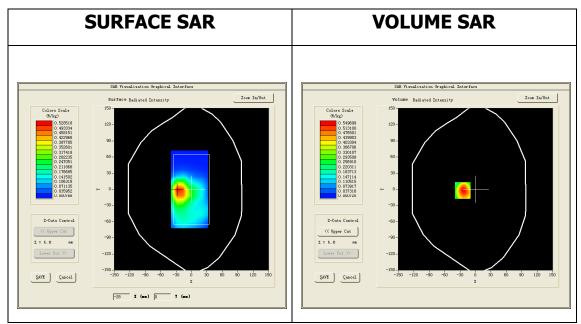
A. Experimental conditions.

<u>Area Scan</u>	dx=15mm dy=15mm	
<u>ZoomScan</u>	7x7x7,dx=5mm dy=5mm dz=5mm,Complete	
<u>Phantom</u>	<u>Validation plane</u>	
<u>Device Position</u>	<u>Body</u>	
<u>Band</u>	IEEE 802.11b ISM	
<u>Channels</u>	Low	
<u>Signal</u>	IEEE802.b (Crest factor: 1.0)	
Conversion factor	4.11	

C. SAR Measurement Results

Lower Band SAR (Channel 1):

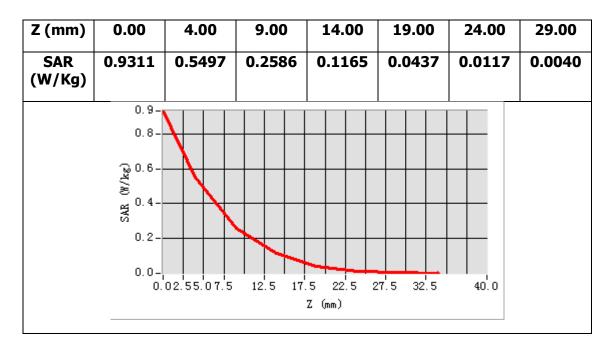
Frequency (MHz)	2412.000000
Relative permittivity (real part)	52.417801
Relative permittivity (imaginary part)	14.706300
Conductivity (S/m)	1.970644
Variation (%)	-0.110000

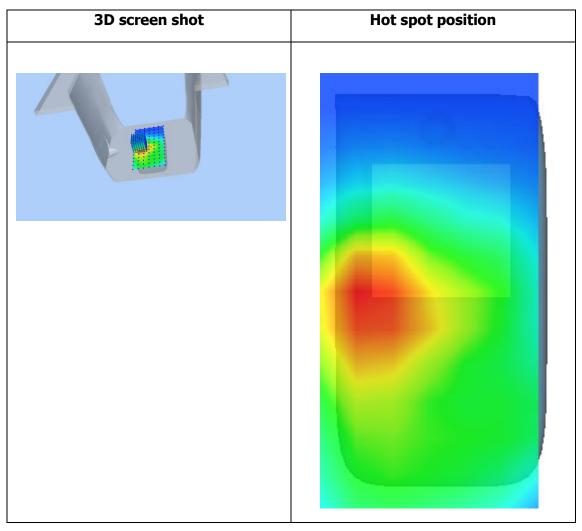


Maximum location: X=-25.00, Y=-2.00

SAR Peak: 1.03 W/kg

SAR 10g (W/Kg)	0.291750
SAR 1g (W/Kg)	0.588356







Type: Phone measurement (Complete)

Date of measurement: 11/10/2016

Measurement duration: 10 minutes 19 seconds

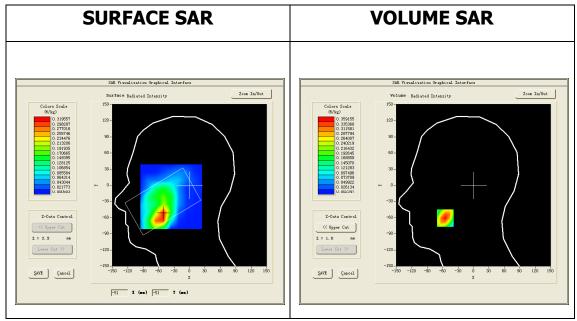
A. Experimental conditions.

<u>Area Scan</u>	dx=15mm dy=15mm	
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete	
<u>Phantom</u>	<u>Right head</u>	
<u>Device Position</u>	<u>Cheek</u>	
<u>Band</u>	Band2 WCDMA1900	
<u>Channels</u>	<u>Middle</u>	
<u>Signal</u>	WCDMA (Crest factor: 1.0)	
Conversion factor	<u>4.63</u>	

C. SAR Measurement Results

Middle Band SAR (Channel 9400):

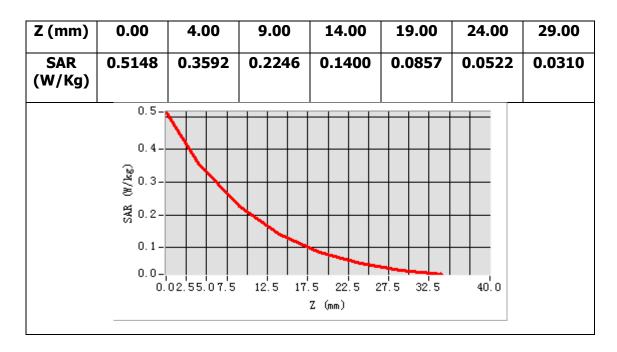
Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.914200
Relative permittivity (imaginary part)	13.434300
Conductivity (S/m)	1.403138
Variation (%)	4.280000

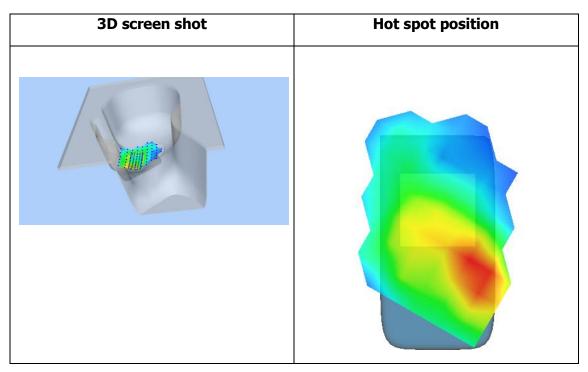


Maximum location: X=-55.00, Y=-61.00

SAR Peak: 0.52 W/kg

SAR 10g (W/Kg)	0.194603
SAR 1g (W/Kg)	0.340278







Towards-phantom-middle

Type: Phone measurement (Complete)

Date of measurement: 11/10/2016

Measurement duration: 11 minutes 32 seconds

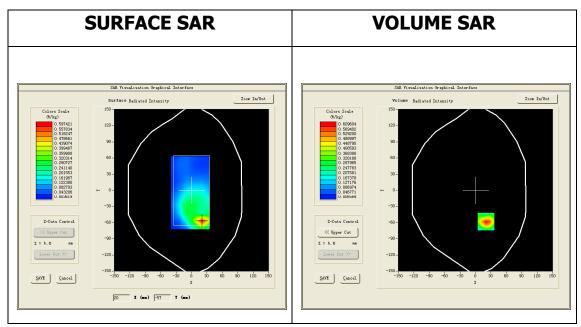
A. Experimental conditions.

<u>Area Scan</u>	dx=15mm dy=15mm	
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete	
<u>Phantom</u>	<u>Validation plane</u>	
<u>Device Position</u>	<u>Body</u>	
<u>Band</u>	Band2 WCDMA1900	
<u>Channels</u>	<u>Middle</u>	
<u>Signal</u>	WCDMA (Crest factor: 1.0)	
Conversion factor	<u>4.78</u>	

C. SAR Measurement Results

Middle Band SAR (Channel 9400):

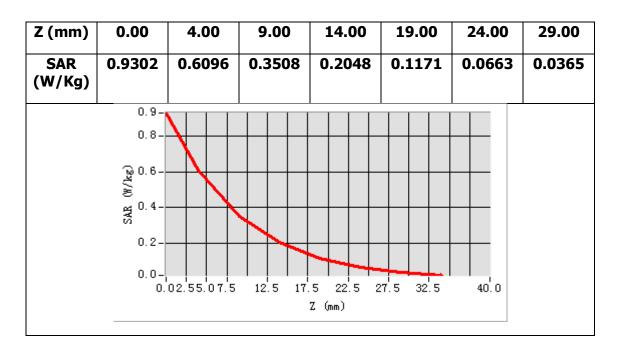
Frequency (MHz)	1880.000000
Relative permittivity (real part)	53.356098
Relative permittivity (imaginary part)	14.668600
Conductivity (S/m)	1.532054
Variation (%)	-0.380000

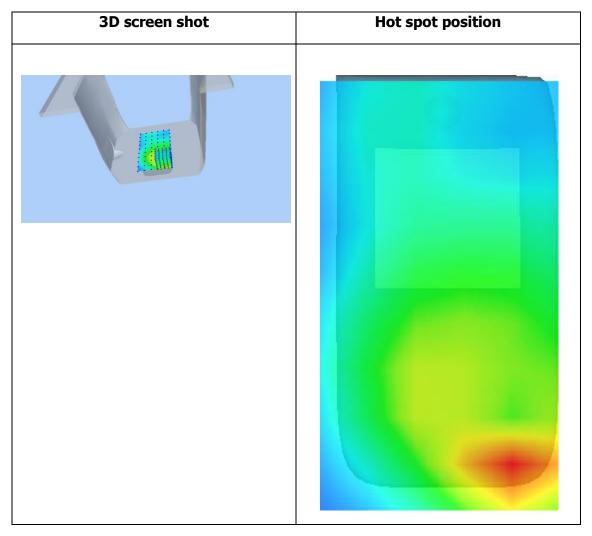


Maximum location: X=20.00, Y=-58.00

SAR Peak: 1.03 W/kg

SAR 10g (W/Kg)	0.320306
SAR 1g (W/Kg)	0.623564







Front-side-middle

Type: Phone measurement (Complete)

Date of measurement: 11/10/2016

Measurement duration: 11 minutes 2 seconds

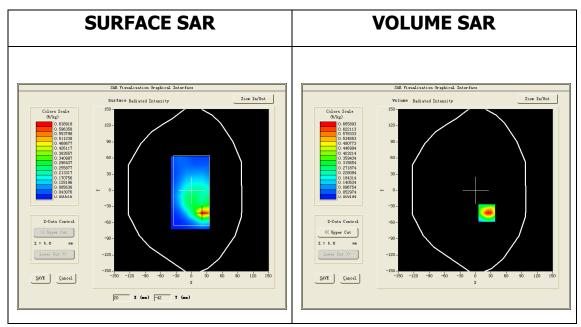
A. Experimental conditions.

<u>Area Scan</u>	dx=15mm dy=15mm	
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete	
<u>Phantom</u>	<u>Validation plane</u>	
<u>Device Position</u>	<u>Body</u>	
<u>Band</u>	Band2 WCDMA1900	
<u>Channels</u>	<u>Middle</u>	
<u>Signal</u>	WCDMA (Crest factor: 1.0)	
Conversion factor	<u>4.78</u>	

C. SAR Measurement Results

Middle Band SAR (Channel 9400):

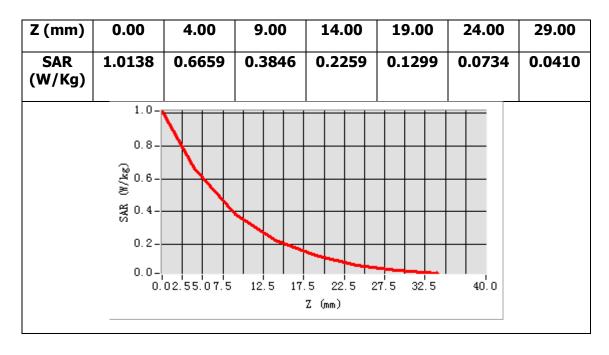
Frequency (MHz)	1880.000000
Relative permittivity (real part)	53.356098
Relative permittivity (imaginary part)	14.668600
Conductivity (S/m)	1.532054
Variation (%)	-0.670000

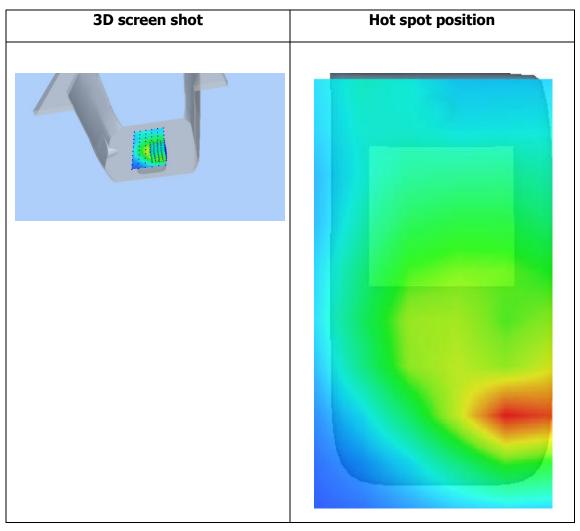


Maximum location: X=22.00, Y=-42.00

SAR Peak: 1.17 W/kg

SAR 10g (W/Kg)	0.353118
SAR 1g (W/Kg)	0.694736







Type: Phone measurement (Complete)

Date of measurement: 6/10/2016

Measurement duration: 9 minutes 10 seconds

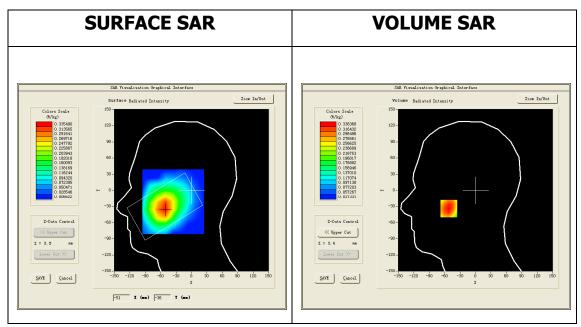
A. Experimental conditions.

<u>Area Scan</u>	dx=15mm dy=15mm				
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete				
<u>Phantom</u>	<u>Left head</u>				
<u>Device Position</u>	<u>Cheek</u>				
<u>Band</u>	Band5 WCDMA850				
<u>Channels</u>	<u>Middle</u>				
<u>Signal</u>	WCDMA (Crest factor: 1.0)				
Conversion factor	<u>4.93</u>				

C. SAR Measurement Results

Middle Band SAR (Channel 4182):

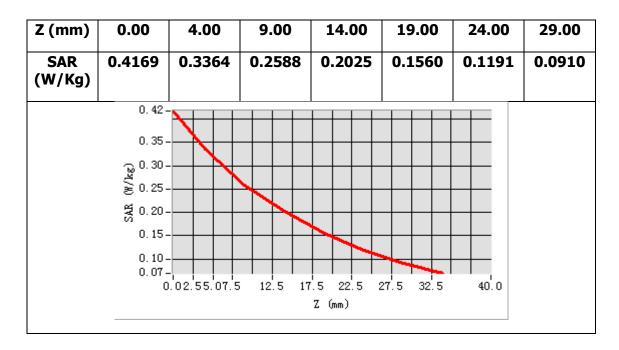
Frequency (MHz)	836.400024
Relative permittivity (real part)	40.234680
Relative permittivity (imaginary part)	19.852501
Conductivity (S/m)	0.922480
Variation (%)	0.470000

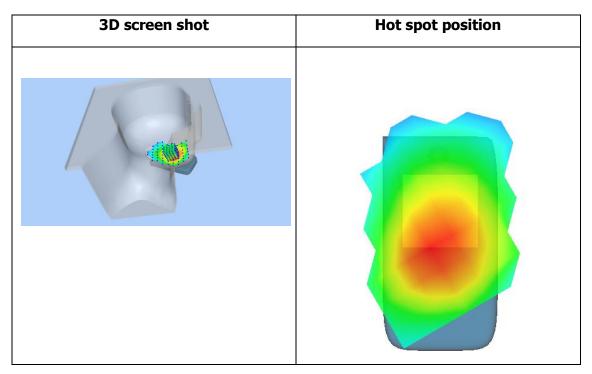


Maximum location: X=-52.00, Y=-34.00

SAR Peak: 0.42 W/kg

SAR 10g (W/Kg)	0.239985		
SAR 1g (W/Kg)	0.332173		







Towards-ground-middle

Type: Phone measurement (Complete)

Date of measurement: 6/10/2016

Measurement duration: 11 minutes 26 seconds

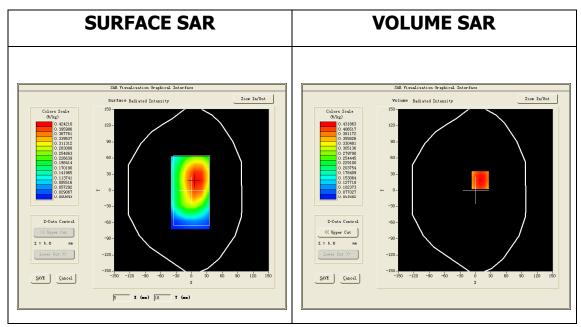
A. Experimental conditions.

Area Scan	dx=15mm dy=15mm				
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete				
<u>Phantom</u>	<u>Validation plane</u>				
<u>Device Position</u>	<u>Body</u>				
<u>Band</u>	Band5 WCDMA850				
<u>Channels</u>	<u>Middle</u>				
<u>Signal</u>	WCDMA (Crest factor: 1.0)				
Conversion factor	5.07				

C. SAR Measurement Results

Middle Band SAR (Channel 4182):

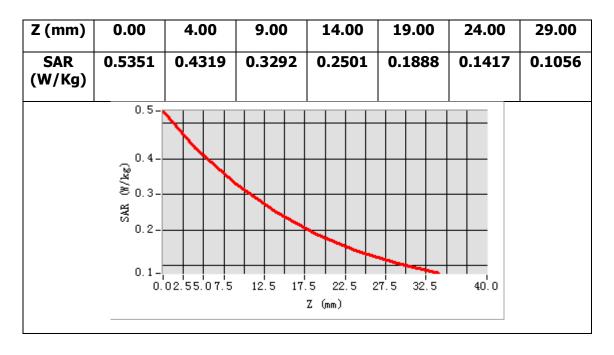
Frequency (MHz)	836.400024
Relative permittivity (real part)	53.916260
Relative permittivity (imaginary part)	21.316219
Conductivity (S/m)	0.990494
Variation (%)	-0.200000

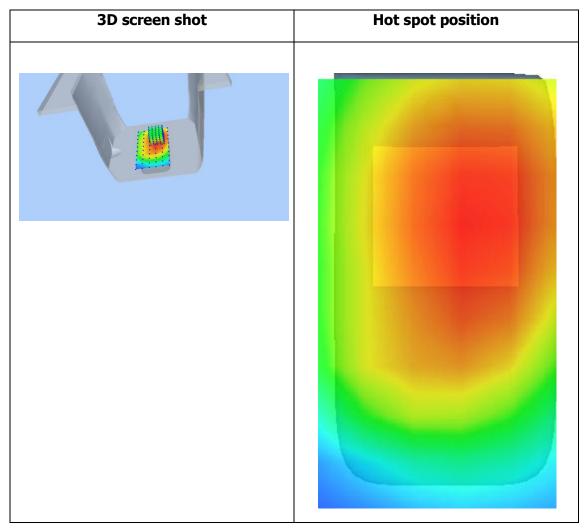


Maximum location: X=9.00, Y=19.00

SAR Peak: 0.58 W/kg

SAR 10g (W/Kg)	0.332175		
SAR 1g (W/Kg)	0.455791		







Rear-side-middle

Type: Phone measurement (Complete)

Date of measurement: 6/10/2016

Measurement duration: 11 minutes 10 seconds

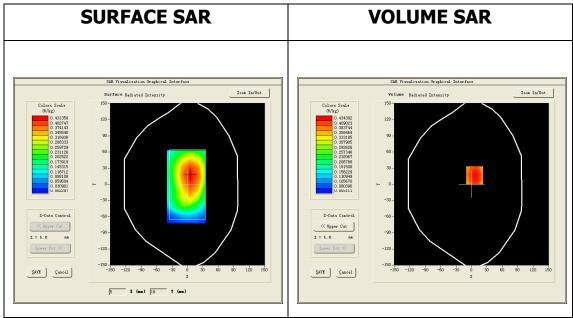
A. Experimental conditions.

<u>Area Scan</u>	dx=15mm dy=15mm				
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete				
<u>Phantom</u>	<u>Validation plane</u>				
<u>Device Position</u>	Body				
<u>Band</u>	Band5 WCDMA850				
<u>Channels</u>	<u>Middle</u>				
<u>Signal</u>	WCDMA (Crest factor: 1.0)				
Conversion factor	<u>5.07</u>				

C. SAR Measurement Results

Middle Band SAR (Channel 4182):

Frequency (MHz)	836.400024
Relative permittivity (real part)	53.916260
Relative permittivity (imaginary part)	21.316219
Conductivity (S/m)	0.990494
Variation (%)	-0.080000



Maximum location: X=6.00, Y=17.00

SAR Peak: 0.58 W/kg

SAR 10g (W/Kg)	0.332622		
SAR 1g (W/Kg)	0.457335		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5395	0.4343	0.3299	0.2499	0.1888	0.1419	0.1064
	0.5- 0.5- 0.4- 0.4- 0.3- 0.2- 0.1-	02.55.07.5	12.5 17.	.5 22.5 2 Z (mm)	27.5 32.5	40.0	

