Appendix B: SAR Measurement results Plots

Plot	Frequency/Mode	Testing Position and Channel	Test Date
1	GSM850	Right Cheek Middle	2020/01/09
2	GSM850/GPRS4Tx	Body Back, Middle ,10mm	2020/01/09
3	GSM1900	Left Cheek Middle	2020/01/11
4	GSM1900/GPRS4Tx	Body Face, Middle ,10mm	2020/01/11
5	GSM1900/GPRS4Tx	Edge C, Middle ,10mm	2020/01/11
6	WCDMA1900	Left Cheek Middle	2020/01/11
7	WCDMA1900	Body Back, Middle ,10mm	2020/01/11
8	WCDMA1700	Left Cheek Middle	2020/01/10
9	WCDMA1700	Body Face, Middle ,10mm	2020/01/10
10	WCDMA850	Right Cheek Low	2020/01/09
11	WCDMA850	Body Back, Low ,10mm	2020/01/09
12	LTE Band2	Left Cheek Middle	2020/01/11
13	LTE Band2	Body Face, Middle ,10mm	2020/01/11
14	LTE Band2	Edge C, Middle ,10mm	2020/01/11
15	LTE Band4	Left Cheek Middle	2020/01/10
16	LTE Band4	Body Face, Middle ,10mm	2020/01/10
17	LTE Band5	Right Cheek Middle	2020/01/09
18	LTE Band5	Body Back, Middle ,10mm	2020/01/09
19	LTE Band7	Left Cheek Middle	2020/01/13
20	LTE Band7	Body Back, Middle ,10mm	2020/01/13
21	LTE Band26	Right Cheek Middle	2020/01/09
22	LTE Band26	Body Back, Middle ,10mm	2020/01/09
23	LTE Band66	Left Cheek Middle	2020/01/10
24	LTE Band66	Body Face, Middle ,10mm	2020/01/10
25	WIFI 2.4G 802.11b	Left Cheek Middle	2020/01/12
26	WIFI 2.4G 802.11b	Body Back, Middle ,10mm	2020/01/12
27	BT	Left Cheek Middle	2020/01/12
28	BT	Body Back, Middle ,10mm	2020/01/12

Plot 1: GSM850, Right Cheek, Middle

Type: Phone measurement

Date of measurement: 01/09/2020

Measurement duration: 22 minutes 04 seconds

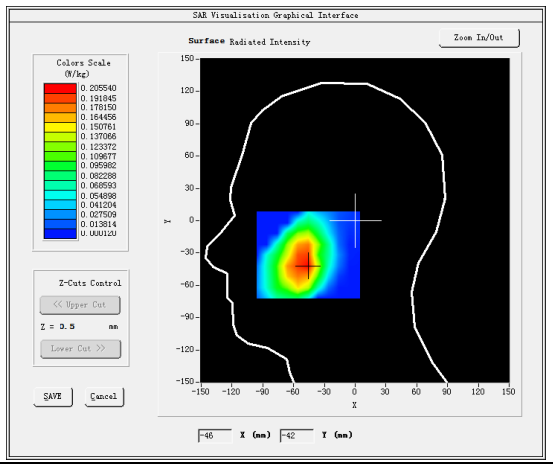
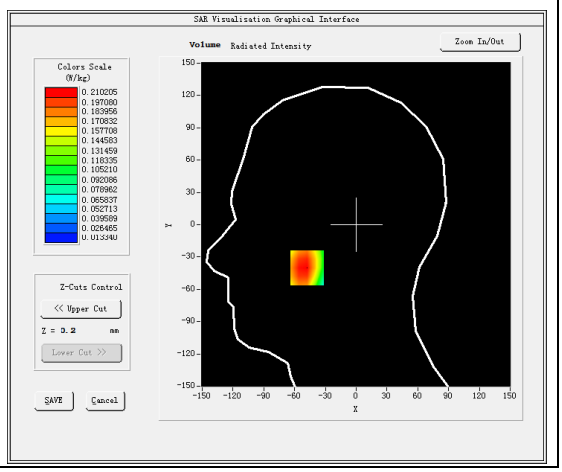
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Cheek
Band	GSM850
Channels	190
Signal	GSM (Duty cycle: 1:8.3)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.6
Relative permittivity (real part)	41.53
Relative permittivity (imaginary part)	19.83
Conductivity (S/m)	0.92
Variation (%)	3.51
ConvF:	1.92

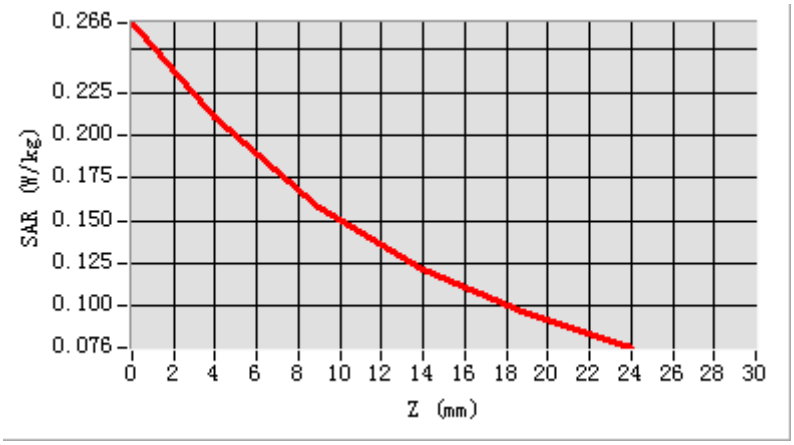
SURFACE SAR	VOLUME SAR
	

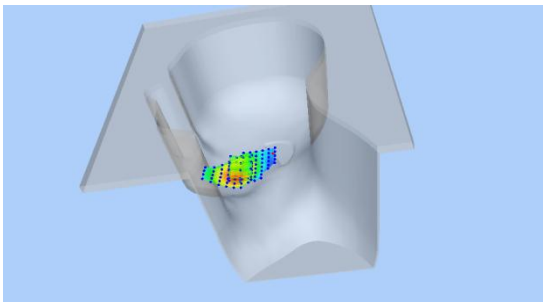
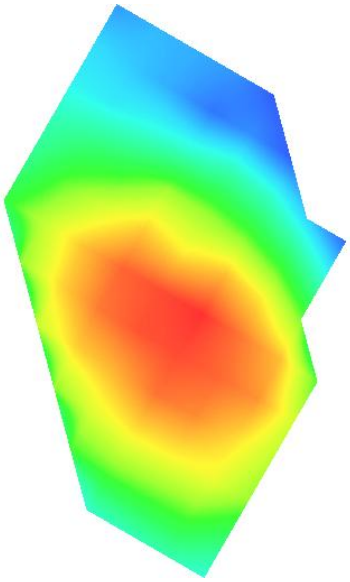
Maximum location: X=-48.00, Y=-40.00

SAR Peak: 0.27W/kg

SAR 10g (W/Kg)	0.144958
SAR 1g (W/Kg)	0.204920

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.2656	0.2102	0.1581	0.1214	0.0957



3D screen shot	Hot spot position
	

Plot 2: GPRS850, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 01/09/2020

Measurement duration: 22 minutes 03 seconds

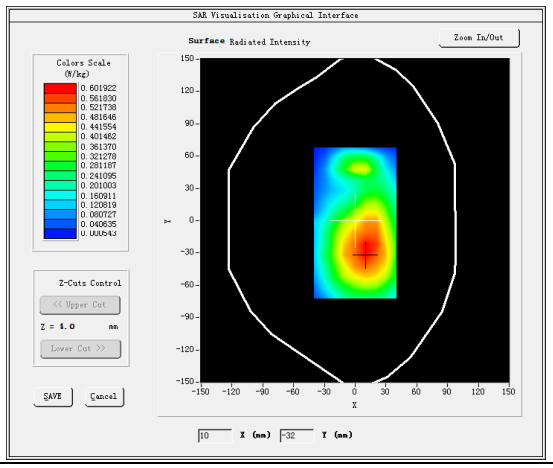
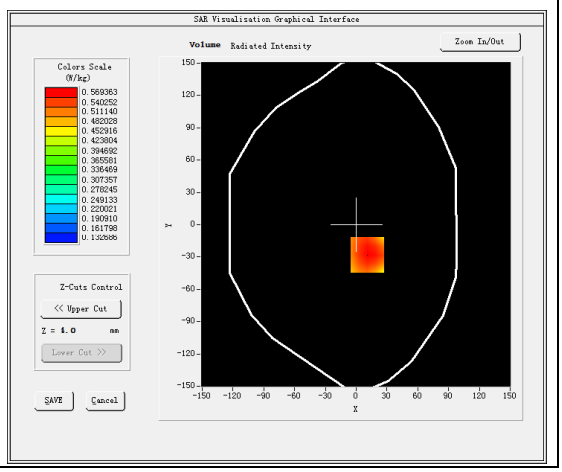
Mobile Phone IMEI number: --

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_4Tx
Channels	190
Signal	GPRS(Duty cycle: 1:2)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.6
Relative permittivity (real part)	55.31
Relative permittivity (imaginary part)	20.91
Conductivity (S/m)	0.97
Variation (%)	-1.37
ConvF:	1.99

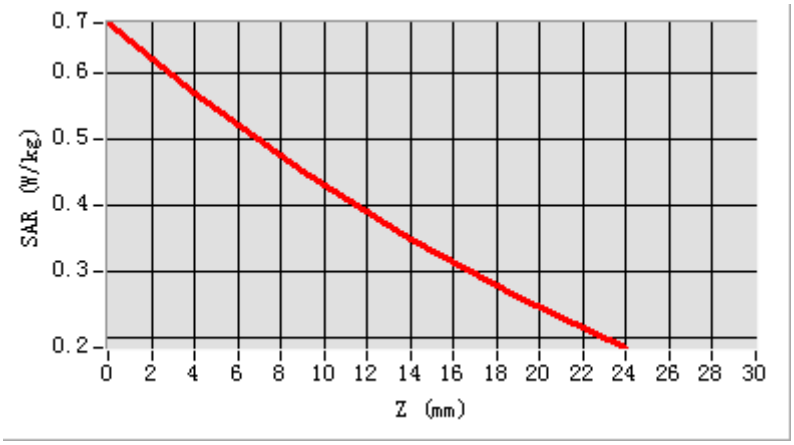
SURFACE SAR	**VOLUME SAR**
	

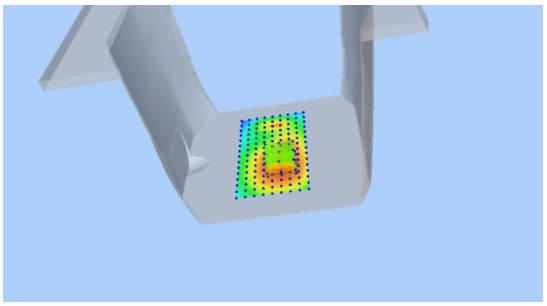
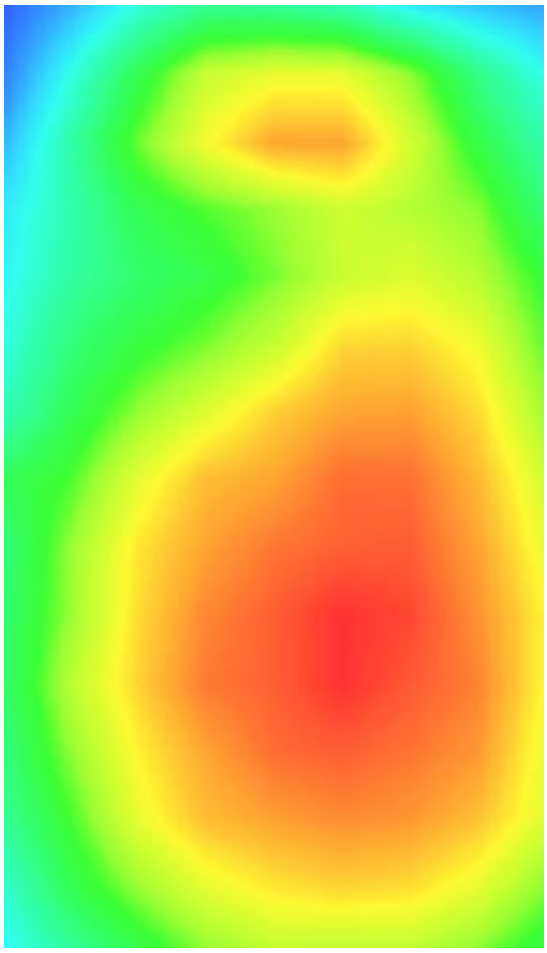
Maximum location: X=11.00, Y=-28.00

SAR Peak: 0.75 W/kg

SAR 10g (W/Kg)	0.420880
SAR 1g (W/Kg)	0.570124

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.6739	0.5694	0.4523	0.3498	0.2613



3D screen shot	Hot spot position
	

Plot 3: GSM1900, Left Cheek, Middle

Type: Phone measurement

Date of measurement: 01/11/2020

Measurement duration: 22 minutes 02 seconds

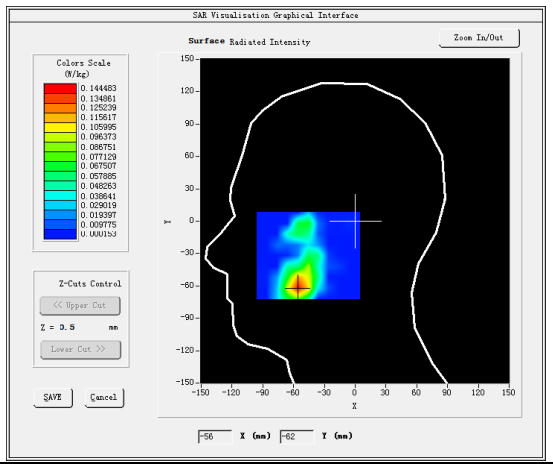
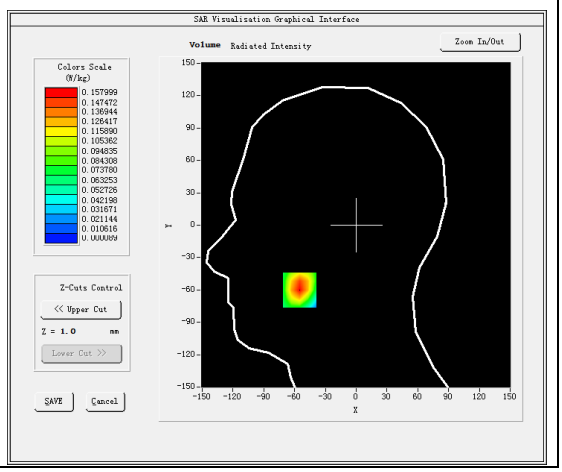
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Left Cheek
Band	GSM1900
Channels	661
Signal	GSM (Duty cycle: 1:8.3)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	40.40
Relative permittivity (imaginary part)	13.36
Conductivity (S/m)	1.41
Variation (%)	2.14
ConvF:	2.34

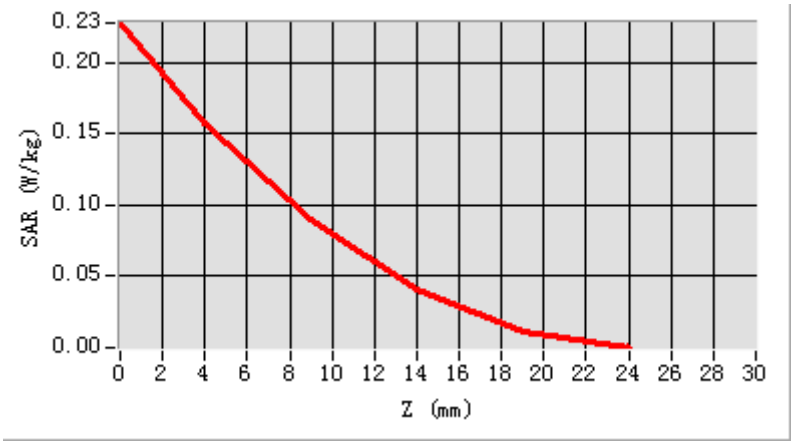
SURFACE SAR	**VOLUME SAR**
	

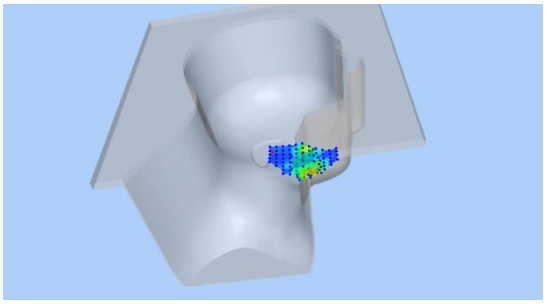
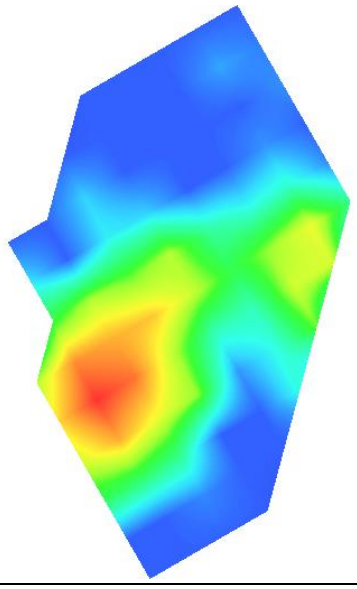
Maximum location: X=-55.00, Y=-60.00

SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.074066
SAR 1g (W/Kg)	0.145922

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.2276	0.1580	0.0897	0.0411	0.0115



3D screen shot	Hot spot position
	

Plot 4: GPRS1900, Face, Middle ,10mm

Type: Phone measurement

Date of measurement: 01/11/2019

Measurement duration: 22 minutes 01 seconds

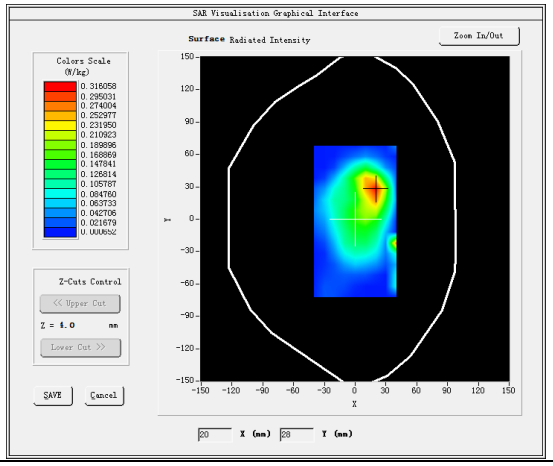
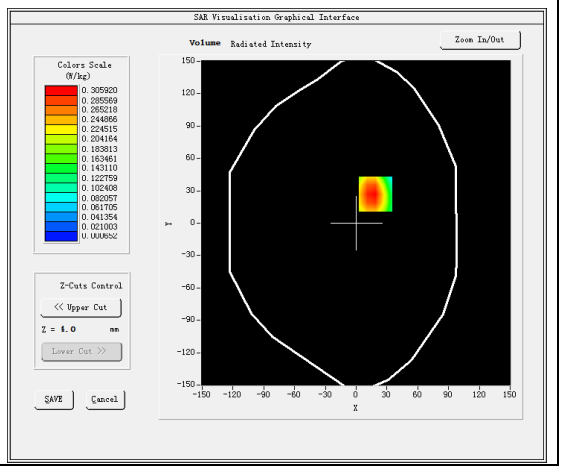
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face
Band	GPRS1900_4Tx
Channels	661
Signal	GPRS(Duty cycle: 1:2)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.38
Relative permittivity (imaginary part)	14.59
Conductivity (S/m)	1.54
Variation (%)	-1.31
ConvF:	2.39

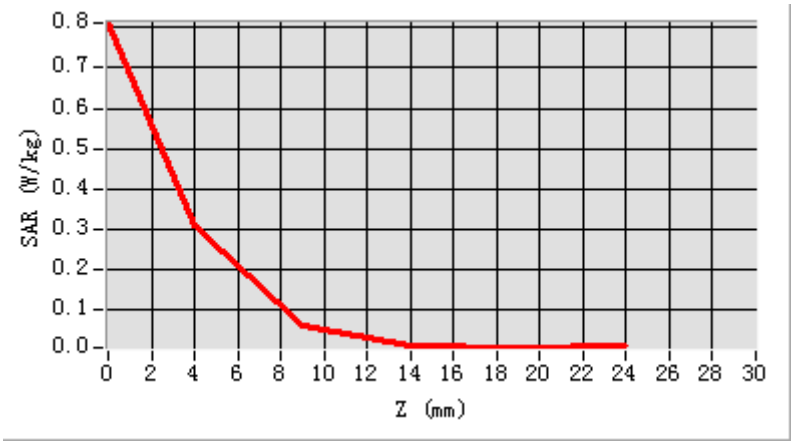
SURFACE SAR	**VOLUME SAR**
	

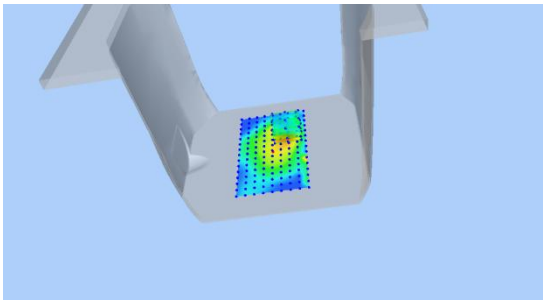
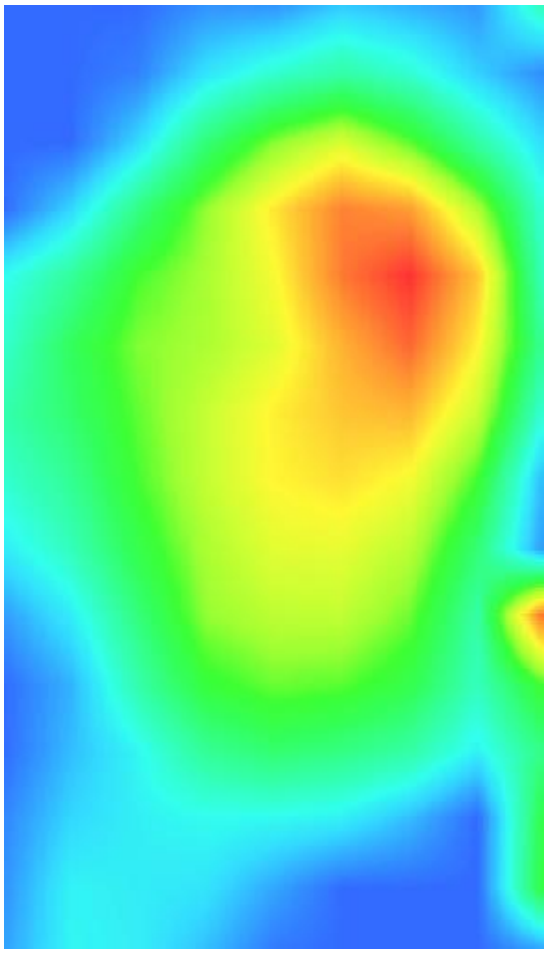
Maximum location: X=19.00, Y=27.00

SAR Peak: 0.81W/kg

SAR 10g (W/Kg)	0.146767
SAR 1g (W/Kg)	0.331014

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.8123	0.3059	0.0591	0.0073	0.0035



3D screen shot	Hot spot position
	

Plot 5: GPRS1900, Edge C, Middle ,10mm

Type: Phone measurement

Date of measurement: 01/11/2019

Measurement duration: 22 minutes 07 seconds

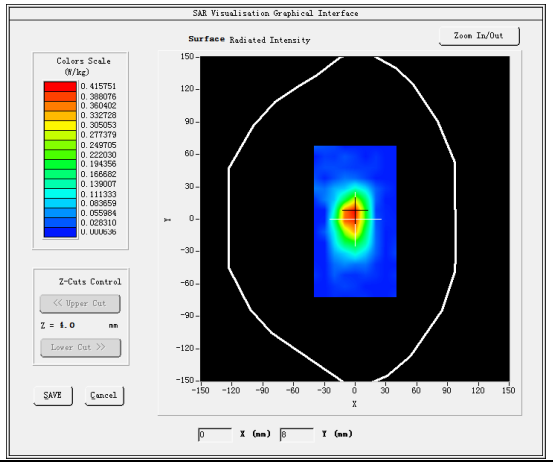
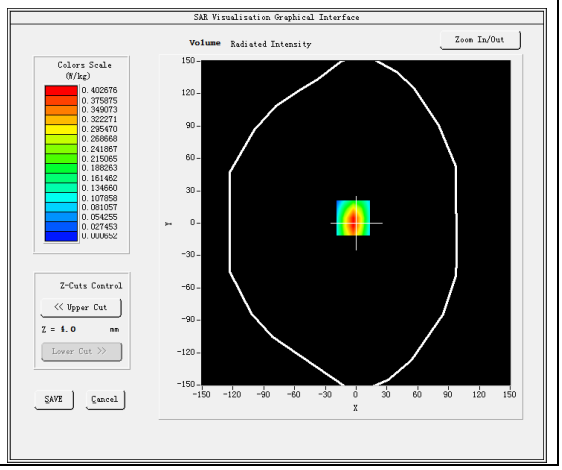
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge C
Band	GPRS1900_4Tx
Channels	661
Signal	GPRS(Duty cycle: 1:2)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.38
Relative permittivity (imaginary part)	14.59
Conductivity (S/m)	1.54
Variation (%)	-0.49
ConvF:	2.39

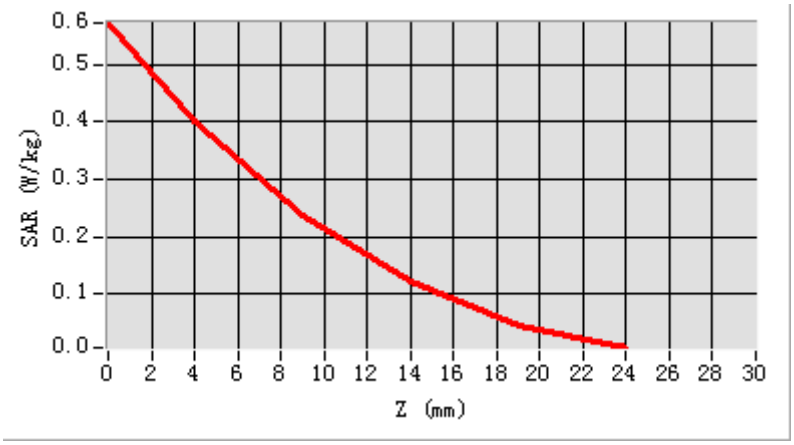
SURFACE SAR	**VOLUME SAR**
	

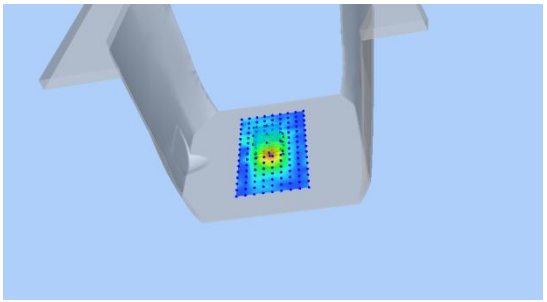
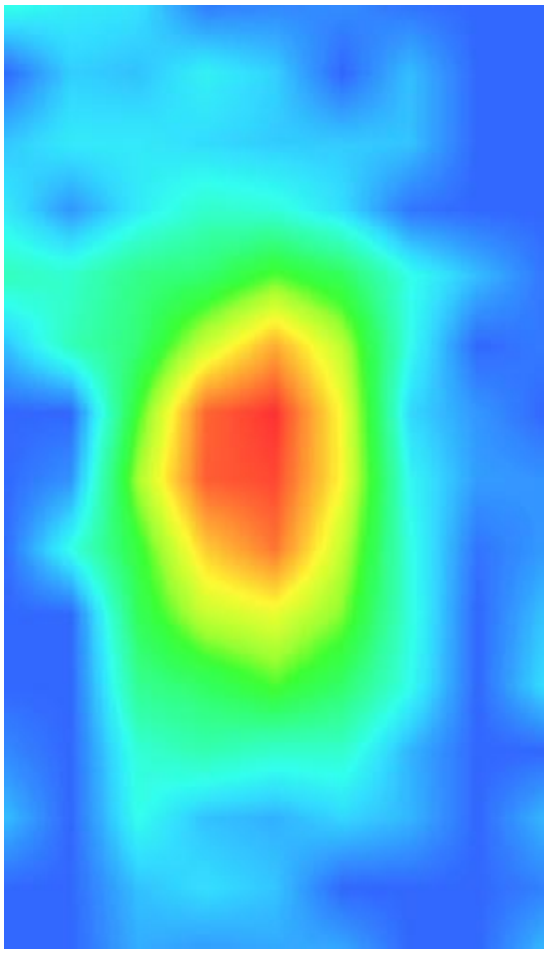
Maximum location: X=-3.00, Y=5.00

SAR Peak: 0.60W/kg

SAR 10g (W/Kg)	0.186429
SAR 1g (W/Kg)	0.375227

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5726	0.4027	0.2387	0.1221	0.0466



3D screen shot	Hot spot position
	

Plot 6: WCDMA1900, Left Cheek, Middle,10mm

Type: Phone measurement

Date of measurement: 01/11/2020

Measurement duration: 22 minutes 08 seconds

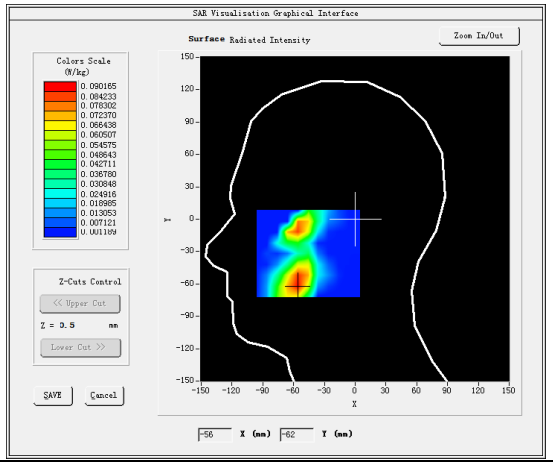
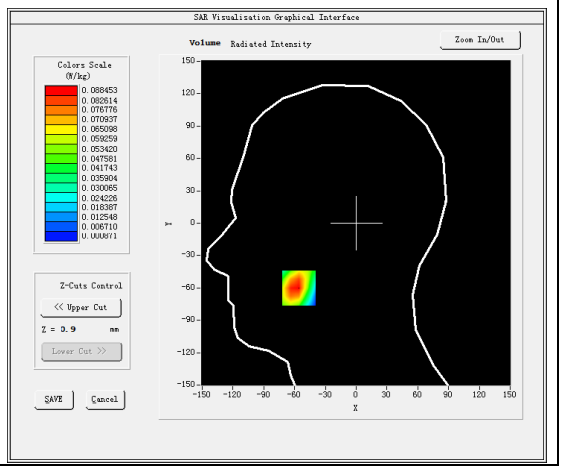
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Left Cheek
Band	Band2_WCDMA1900
Channels	9400
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	40.40
Relative permittivity (imaginary	13.36
Conductivity (S/m)	1.41
Variation (%)	4.07
ConvF:	2.34

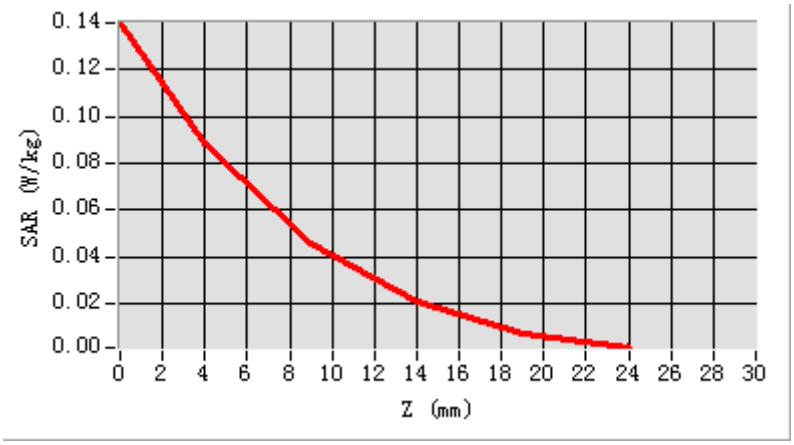
SURFACE SAR	**VOLUME SAR**
	

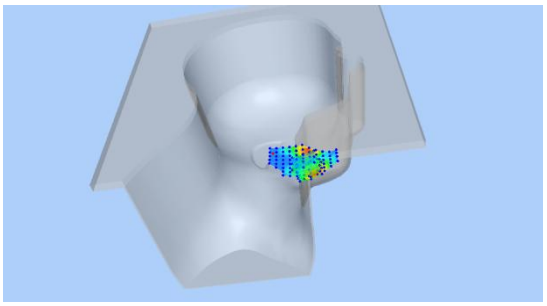
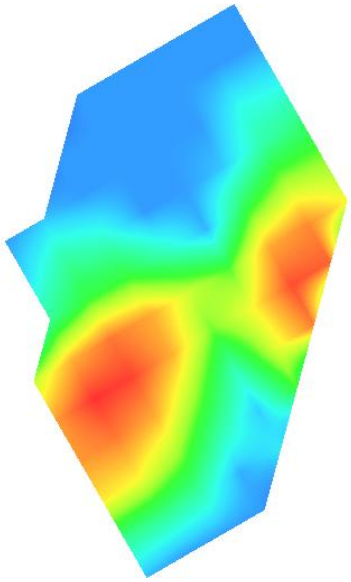
Maximum location: X=-56.00, Y=-60.00

SAR Peak: 0.15W/kg

SAR 10g (W/Kg)	0.041604
SAR 1g (W/Kg)	0.084899

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1400	0.0885	0.0460	0.0210	0.0076



3D screen shot	Hot spot position
	

Plot 7: WCDMA1900, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 01/11/2020

Measurement duration: 22 minutes 06 seconds

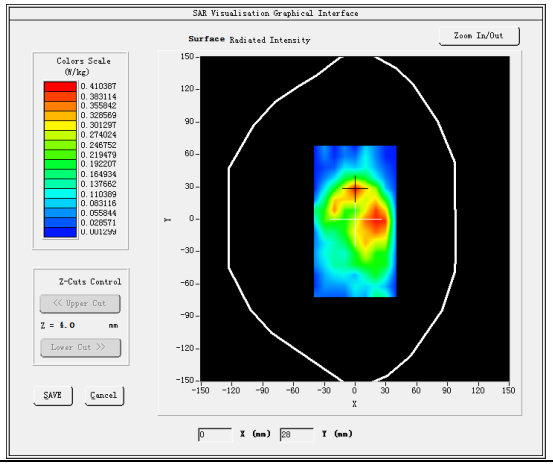
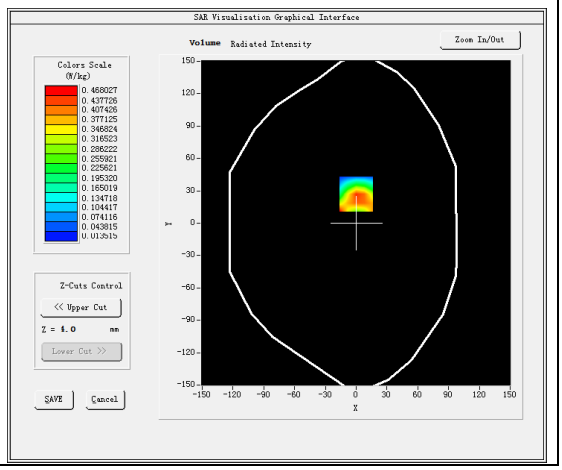
Mobile Phone IMEI number: --

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	9400
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.38
Relative permittivity (imaginary	14.59
Conductivity (S/m)	1.54
Variation (%)	3.77
ConvF:	2.39

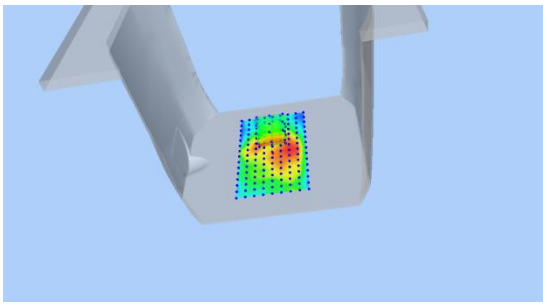
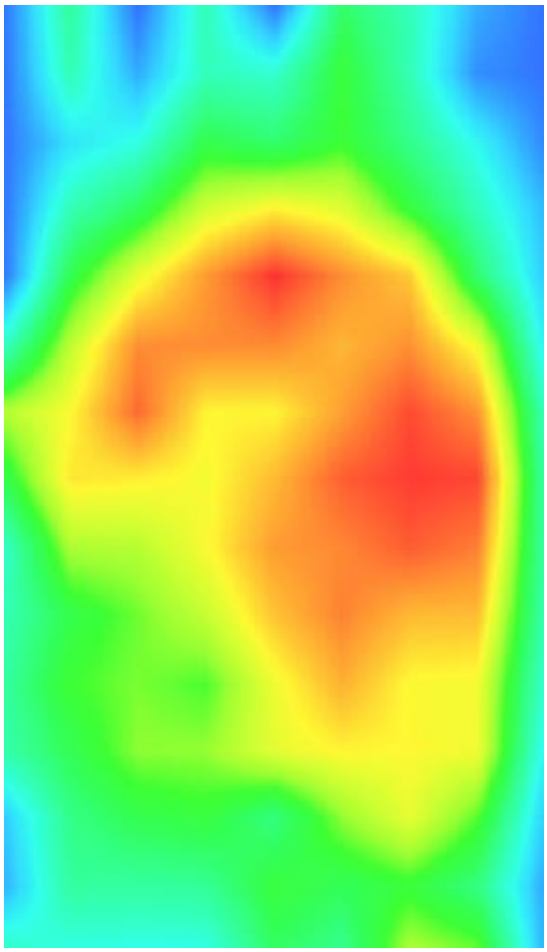
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=0.00, Y=27.00

SAR Peak: 0.99W/kg

SAR 10g (W/Kg)	0.243846
SAR 1g (W/Kg)	0.451676

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	2.3393	0.4680	0.0319	0.1185	0.0205

3D screen shot	Hot spot position
	

Plot 8: WCDMA1700, Left Cheek, Middle

Type: Phone measurement

Date of measurement: 01/10/2019

Measurement duration: 22 minutes 09 seconds

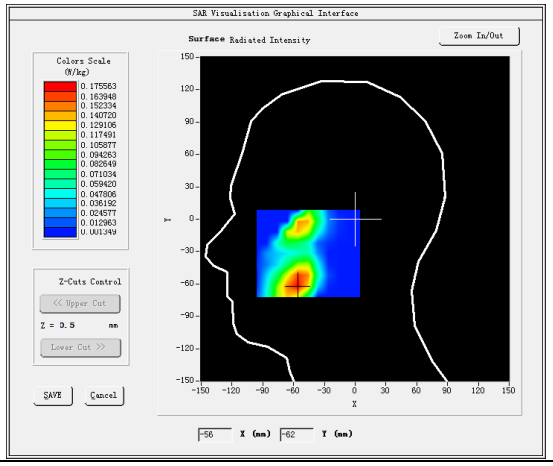
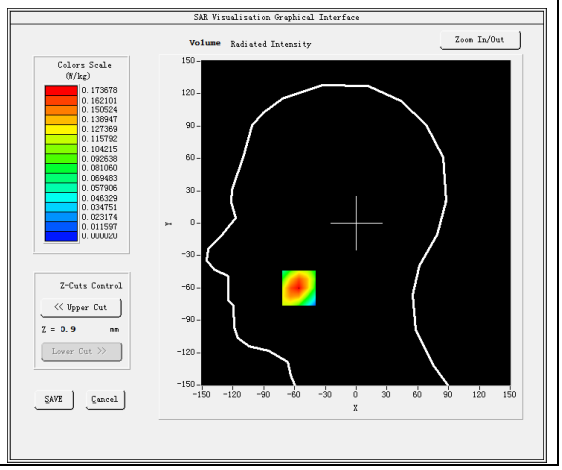
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.6
Relative permittivity (real part)	40.48
Relative permittivity (imaginary	14.00
Conductivity (S/m)	1.40
Variation (%)	1.10
ConvF:	2.14

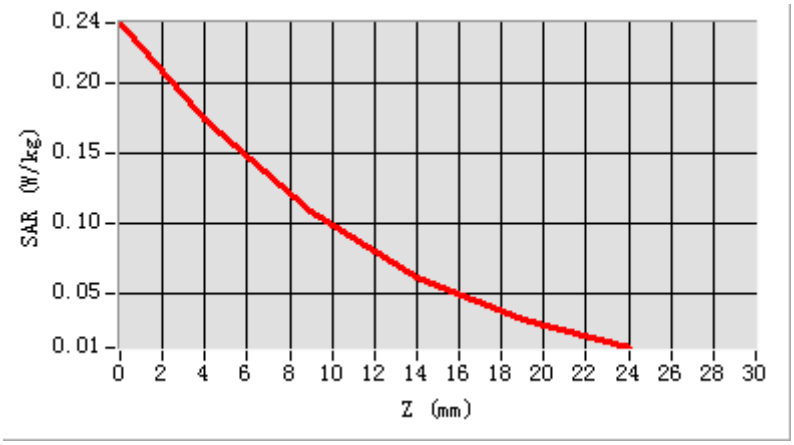
SURFACE SAR	**VOLUME SAR**
	

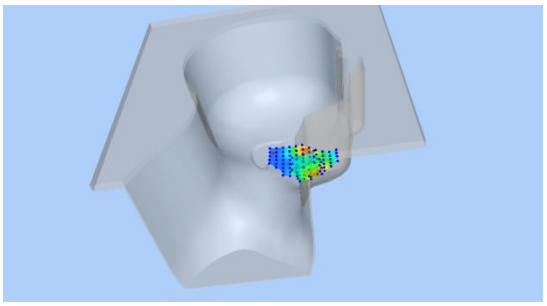
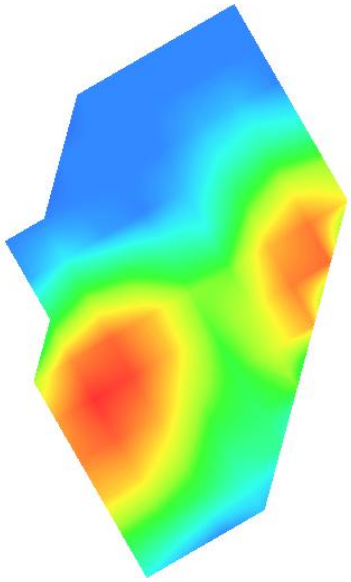
Maximum location: X=-56.00, Y=-60.00

SAR Peak: 0.24W/kg

SAR 10g (W/Kg)	0.090223
SAR 1g (W/Kg)	0.165696

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.2431	0.1737	0.1080	0.0616	0.0303



3D screen shot	Hot spot position
	

Plot 9: WCDMA1700, Face, Middle,10mm

Type: Phone measurement

Date of measurement: 01/10/2020

Measurement duration: 22 minutes 05 seconds

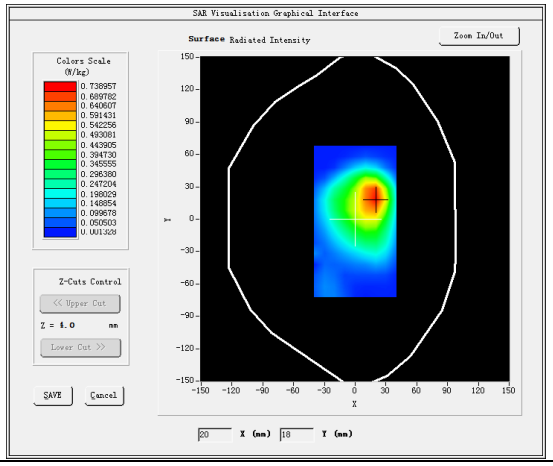
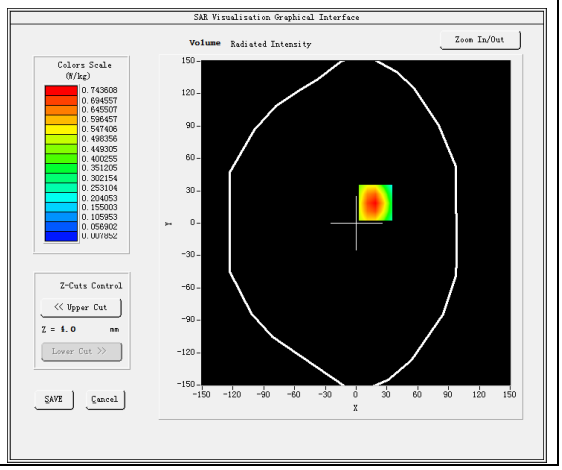
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.6
Relative permittivity (real part)	53.45
Relative permittivity (imaginary	15.50
Conductivity (S/m)	1.55
Variation (%)	-3.30
ConvF:	2.22

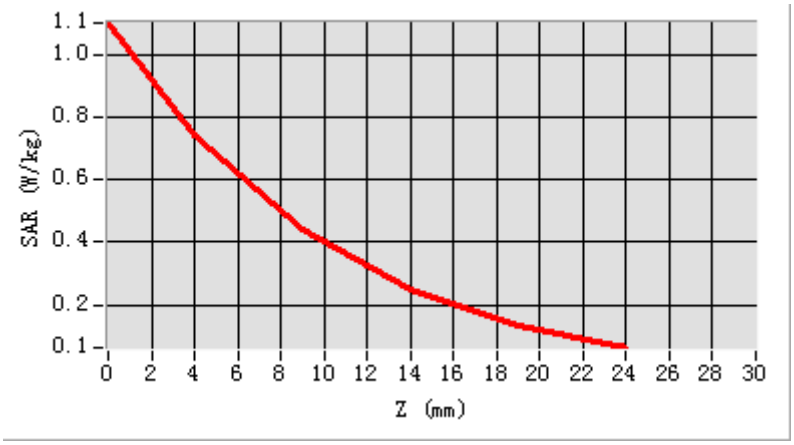
SURFACE SAR	**VOLUME SAR**
	

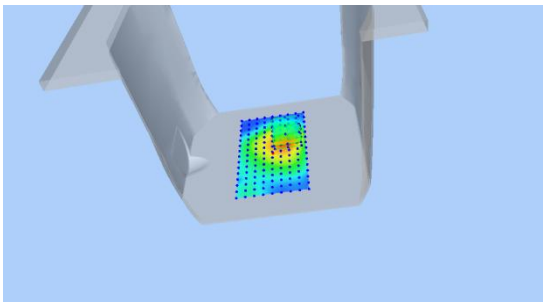
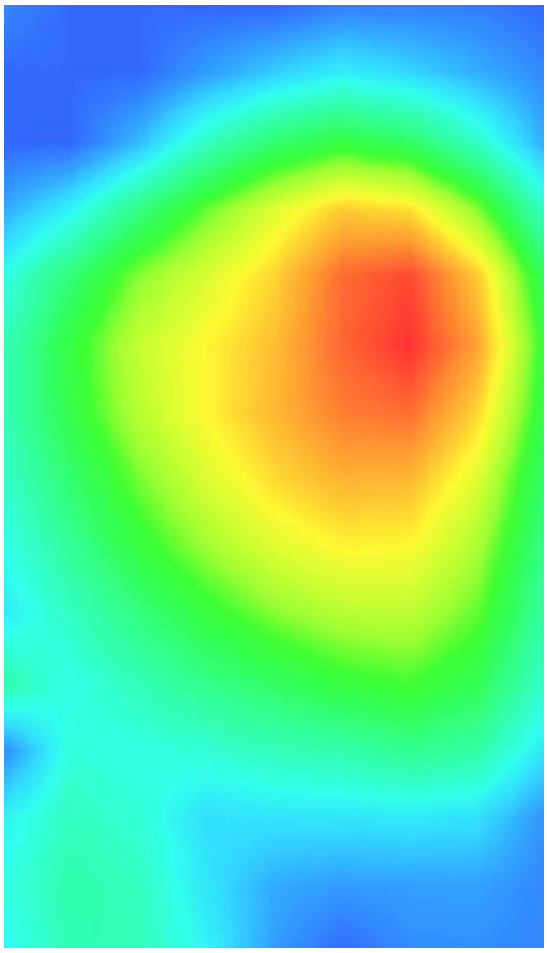
Maximum location: X=19.00, Y=19.00

SAR Peak: 1.11W/kg

SAR 10g (W/Kg)	0.395666
SAR 1g (W/Kg)	0.702468

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.0995	0.7436	0.4398	0.2502	0.1356



3D screen shot	Hot spot position
	

Plot 10: WCDMA850, Right Cheek, Low

Type: Phone measurement

Date of measurement: 01/09/2020

Measurement duration: 22 minutes 13 seconds

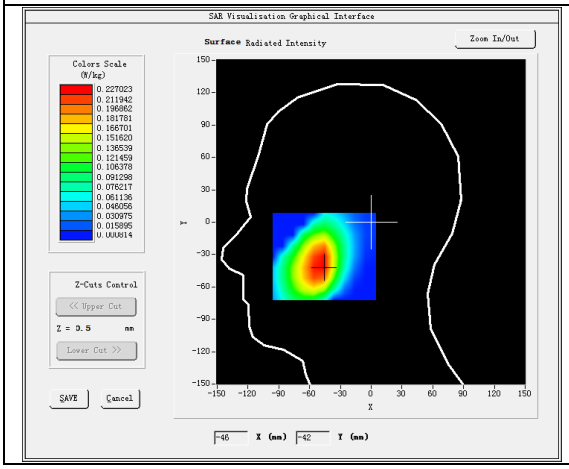
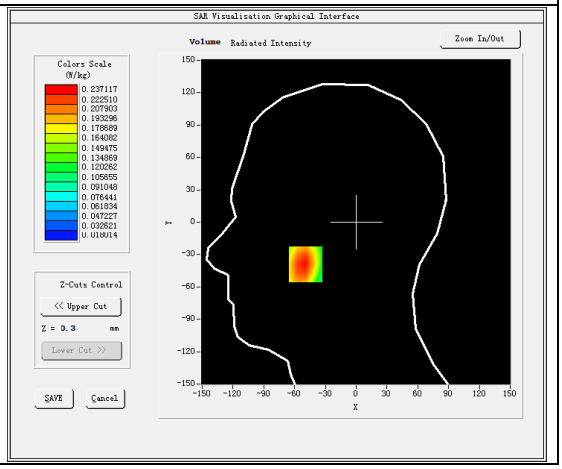
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Cheek
Band	Band5_WCDMA850
Channels	4132
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	826.4
Relative permittivity (real part)	41.53
Relative permittivity (imaginary	19.83
Conductivity (S/m)	0.92
Variation (%)	-4.29
ConvF:	1.92

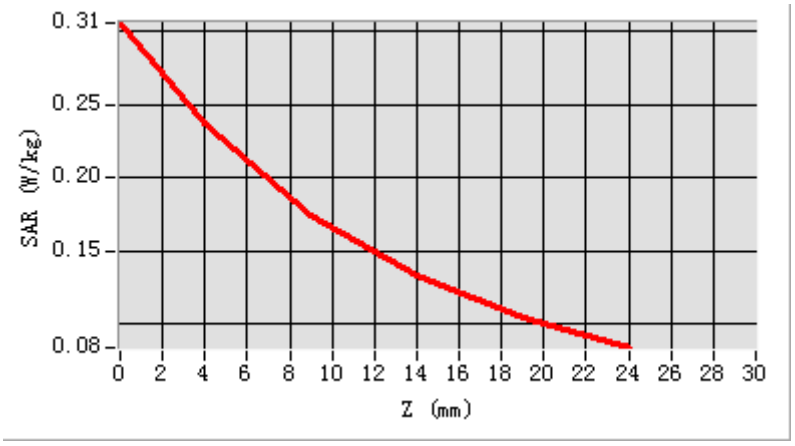
SURFACE SAR	**VOLUME SAR**
	

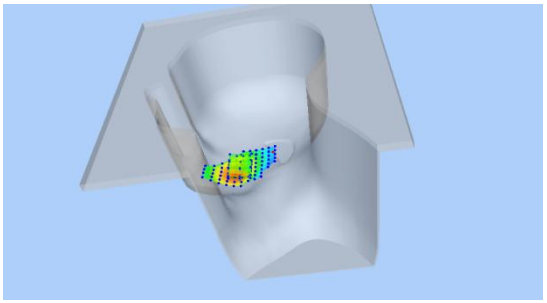
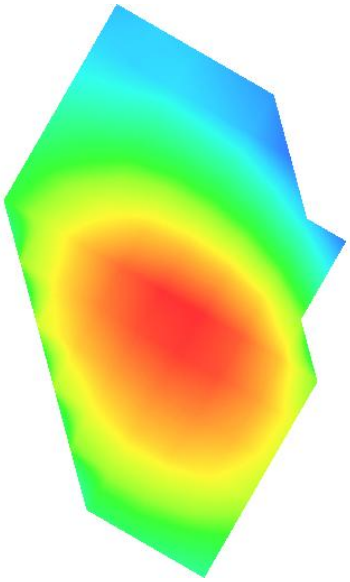
Maximum location: X=-49.00, Y=-39.00

SAR Peak: 0.31W/kg

SAR 10g (W/Kg)	0.161739
SAR 1g (W/Kg)	0.228665

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.3055	0.2371	0.1748	0.1328	0.1049



3D screen shot	Hot spot position
	

Plot 11: WCDMA850, Back, Low,10mm

Type: Phone measurement

Date of measurement: 01/09/2020

Measurement duration: 22 minutes 10 seconds

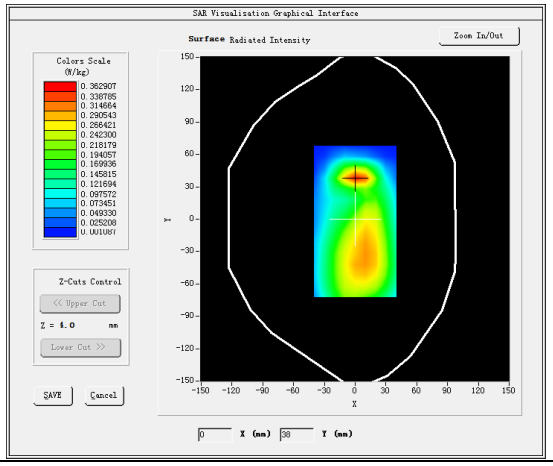
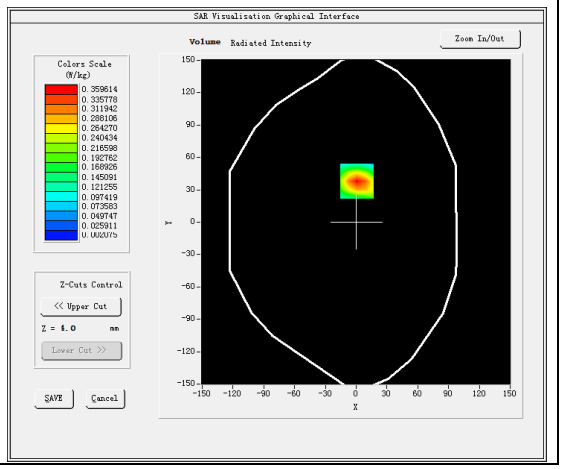
Mobile Phone IMEI number: --

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	4132
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	826.4
Relative permittivity (real part)	55.31
Relative permittivity (imaginary	20.91
Conductivity (S/m)	0.97
Variation (%)	-3.26
ConvF:	1.99

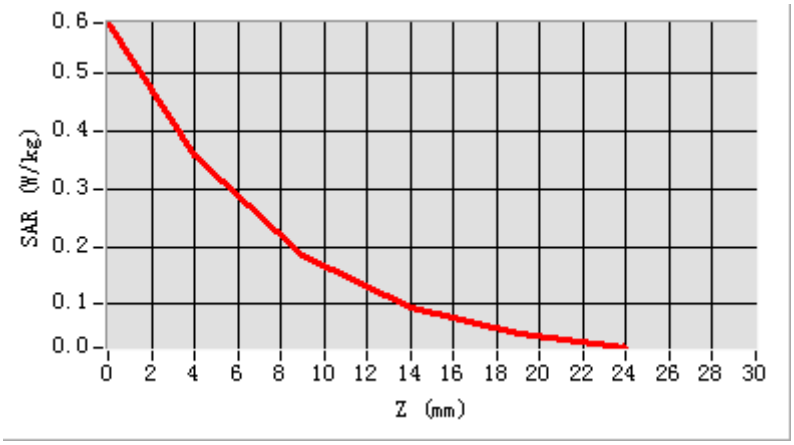
SURFACE SAR	**VOLUME SAR**
	

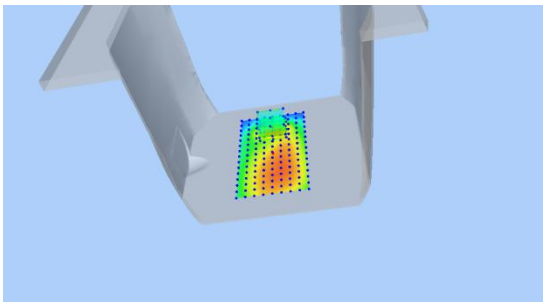
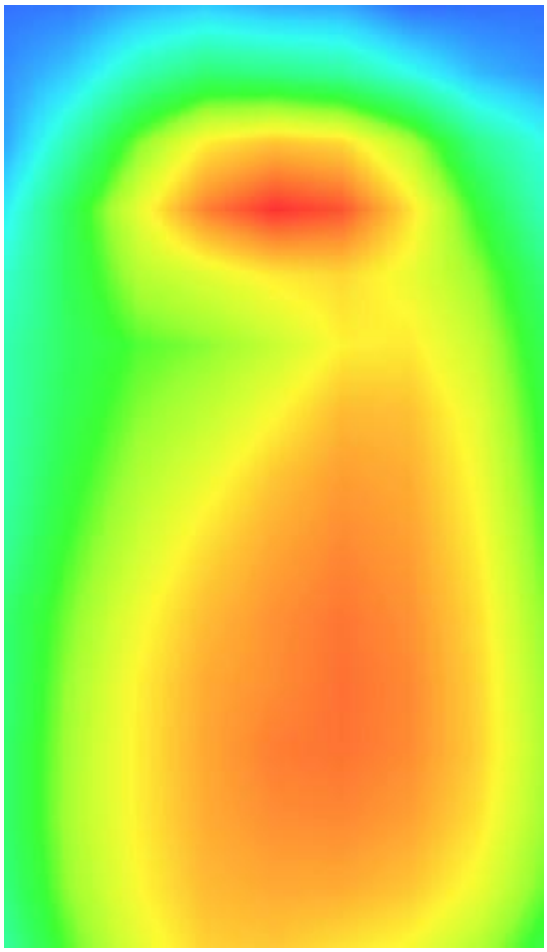
Maximum location: X=1.00, Y=38.00

SAR Peak: 0.59W/kg

SAR 10g (W/Kg)	0.171684
SAR 1g (W/Kg)	0.340007

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5882	0.3596	0.1861	0.0948	0.0496



3D screen shot	Hot spot position
	

Plot 12: LTE Band2, 20MHz,Left Cheek, Middle

Type: Phone measurement

Date of measurement: 01/11/2020

Measurement duration: 22 minutes 12 econds

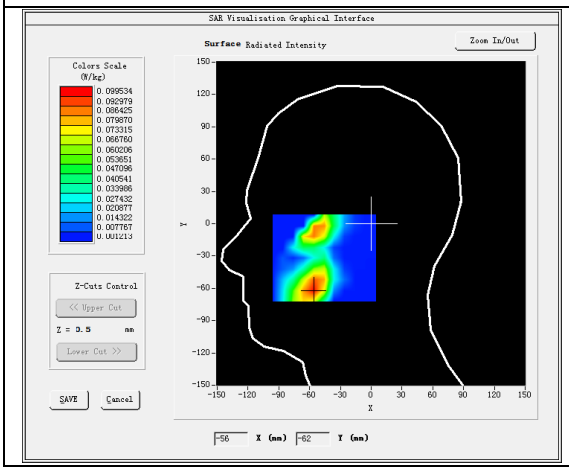
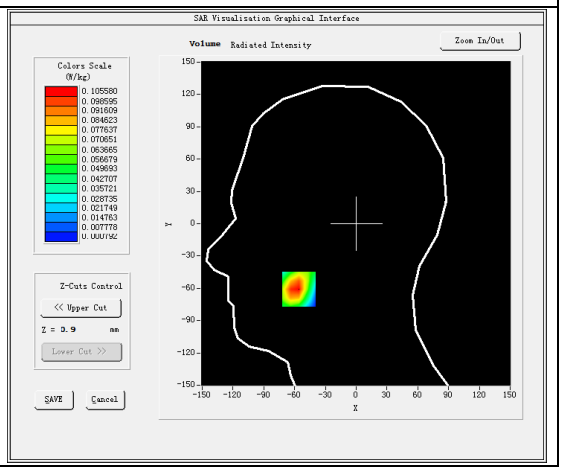
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Left Cheek
Band	LTE Band 2
Channels	18900
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	40.40
Relative permittivity (imaginary	13.36
Conductivity (S/m)	1.41
Variation (%)	1.44
ConvF:	2.34

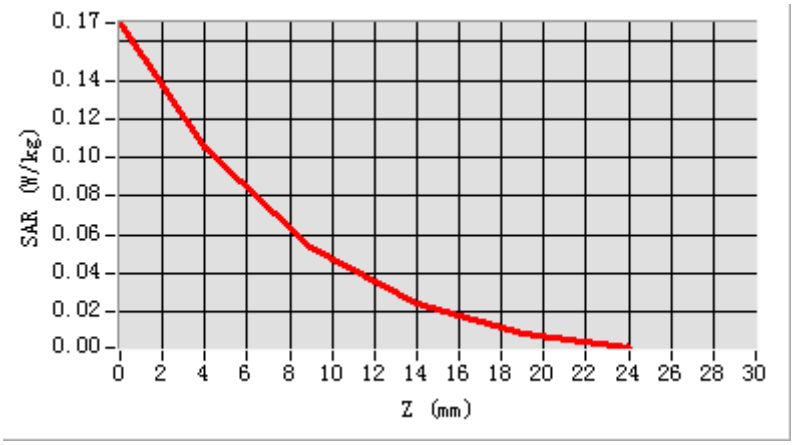
SURFACE SAR	**VOLUME SAR**
	

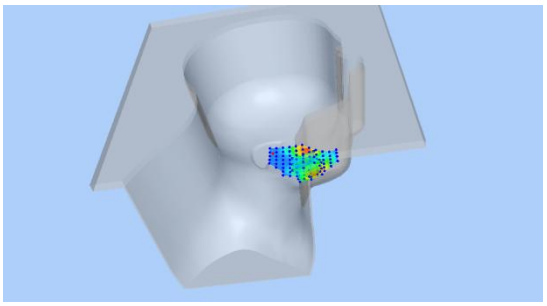
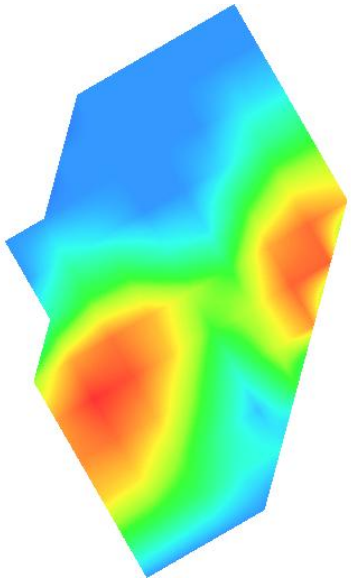
Maximum location: X=-56.00, Y=-61.00

SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.048846
SAR 1g (W/Kg)	0.100742

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1698	0.1056	0.0536	0.0238	0.0083



3D screen shot	Hot spot position
	

Plot 13: LTE Band2, 20MHz, Face, Middle,10mm

Type: Phone measurement

Date of measurement: 01/11/2020

Measurement duration: 22 minutes 11 seconds

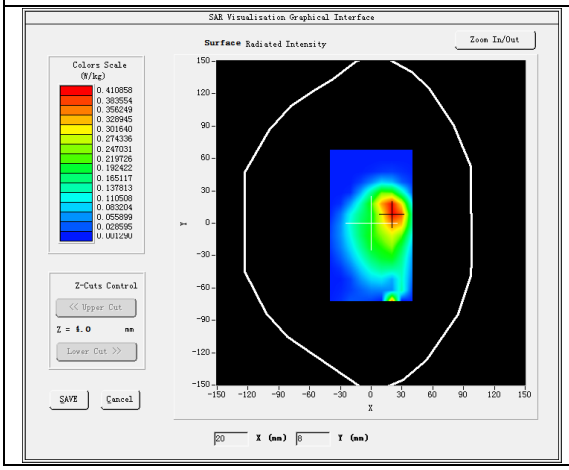
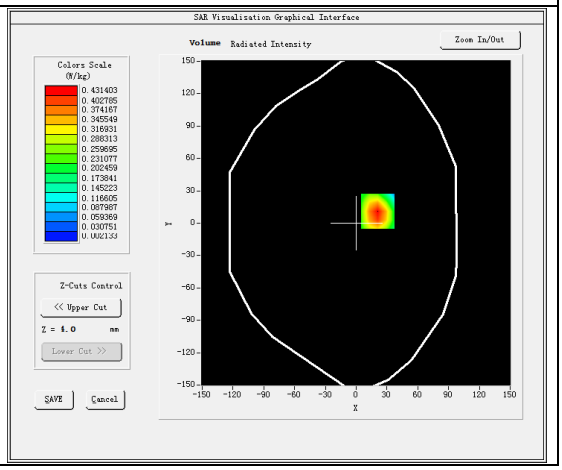
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face
Band	LTE Band 2
Channels	18900
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.38
Relative permittivity (imaginary	14.59
Conductivity (S/m)	1.54
Variation (%)	-2.93
ConvF:	2.39

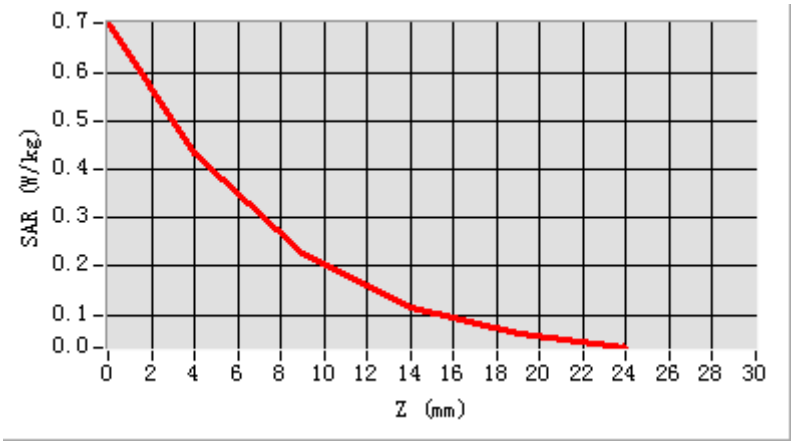
SURFACE SAR	**VOLUME SAR**
	

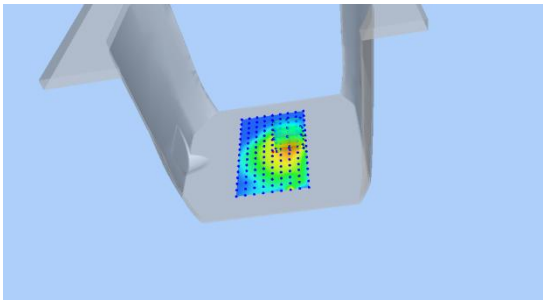
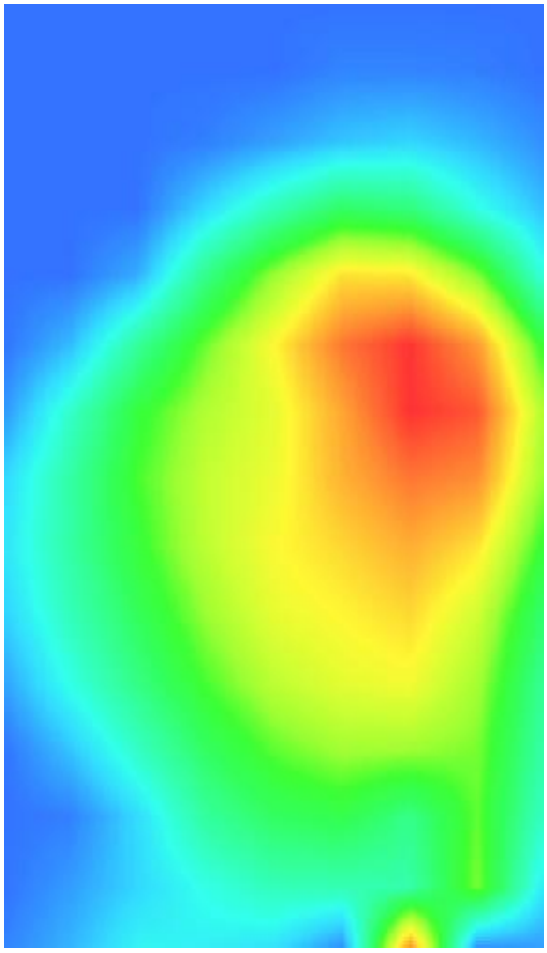
Maximum location: X=21.00, Y=11.00

SAR Peak: 0.70W/kg

SAR 10g (W/Kg)	0.210700
SAR 1g (W/Kg)	0.405680

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.7018	0.4314	0.2255	0.1166	0.0623



3D screen shot	Hot spot position
	

Plot 14: LTE Band2, 20MHz, Edge C, Middle,10mm

Type: Phone measurement

Date of measurement: 01/11/2020

Measurement duration: 22 minutes 19 seconds

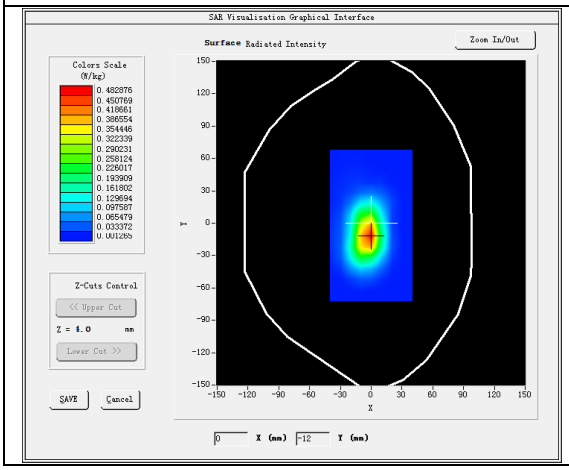
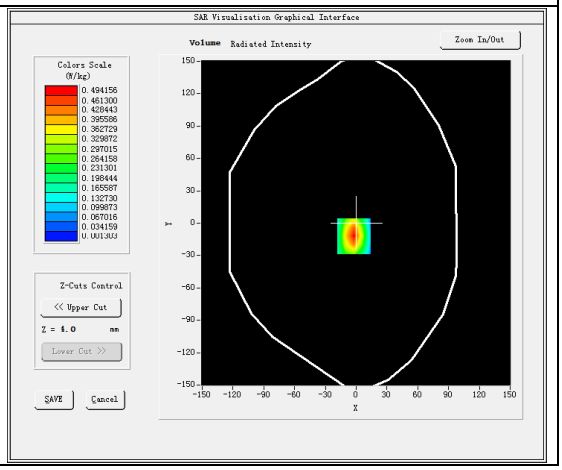
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge C
Band	LTE Band 2
Channels	18900
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.38
Relative permittivity (imaginary	14.59
Conductivity (S/m)	1.54
Variation (%)	-1.91
ConvF:	2.39

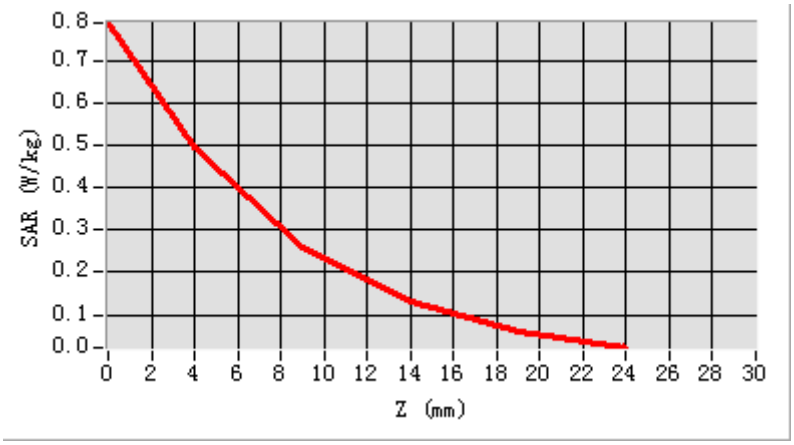
SURFACE SAR	**VOLUME SAR**
	

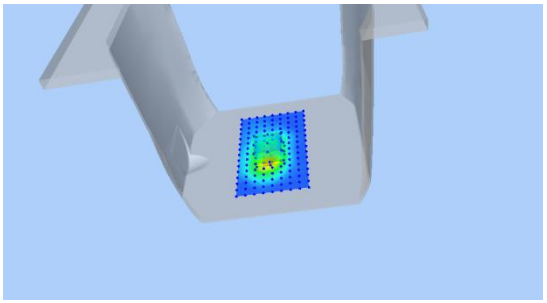
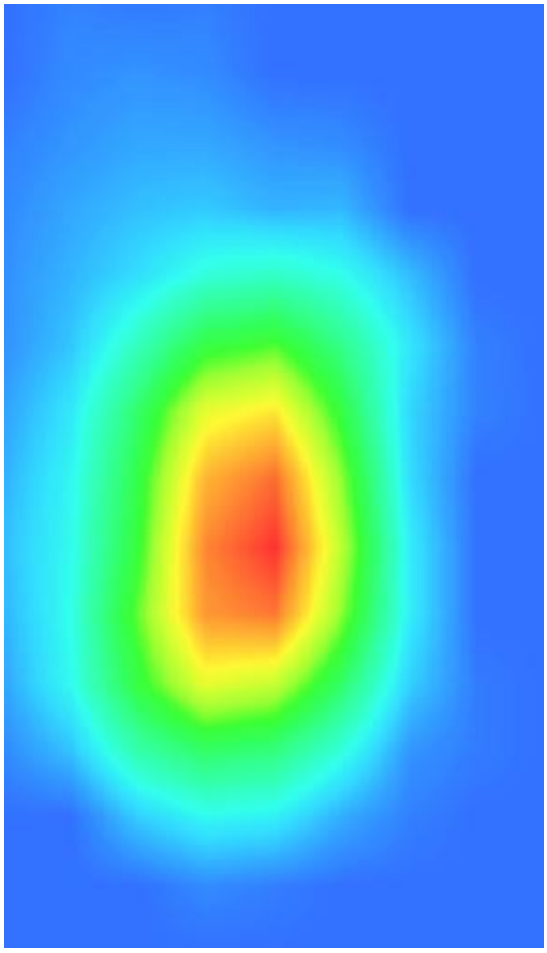
Maximum location: X=-2.00, Y=-12.00

SAR Peak: 0.79W/kg

SAR 10g (W/Kg)	0.217914
SAR 1g (W/Kg)	0.452896

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.7890	0.4942	0.2606	0.1295	0.0602



3D screen shot	Hot spot position
	

Plot 15: LTE Band4, 20MHz,Left Cheek, Middle

Type: Phone measurement

Date of measurement: 01/10/2020

Measurement duration: 22 minutes 16 econds

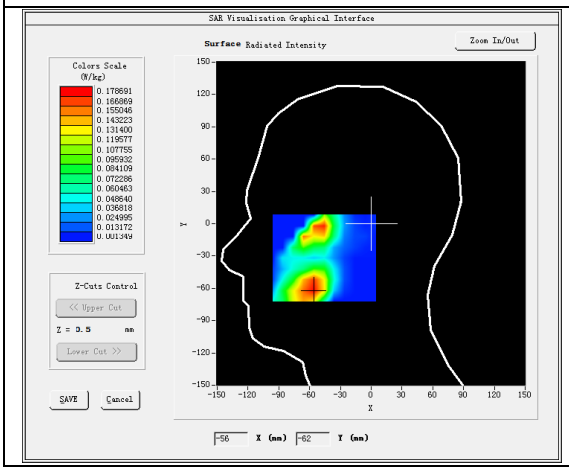
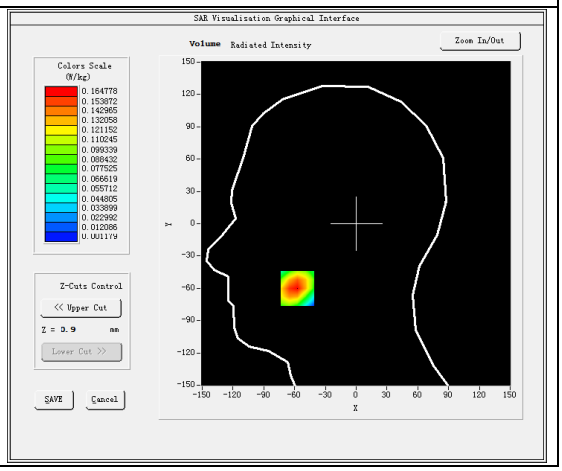
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	40.48
Relative permittivity (imaginary	14.00
Conductivity (S/m)	1.40
Variation (%)	-4.13
ConvF:	2.14

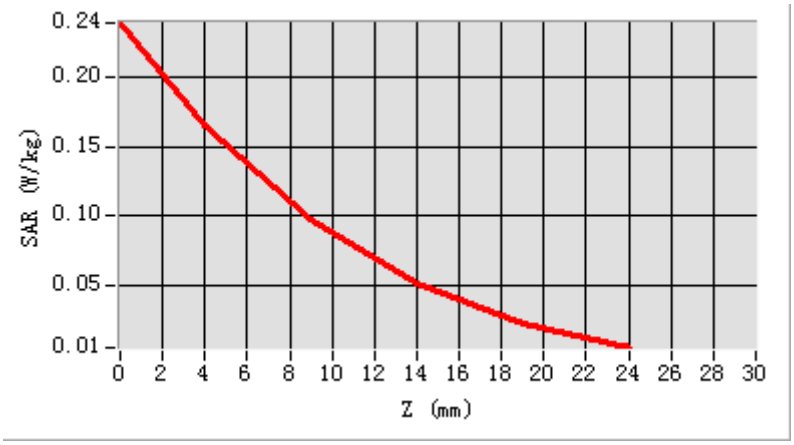
SURFACE SAR	**VOLUME SAR**
	

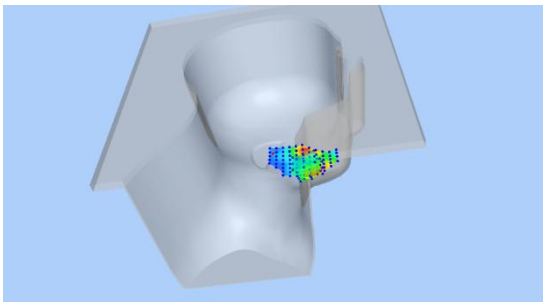
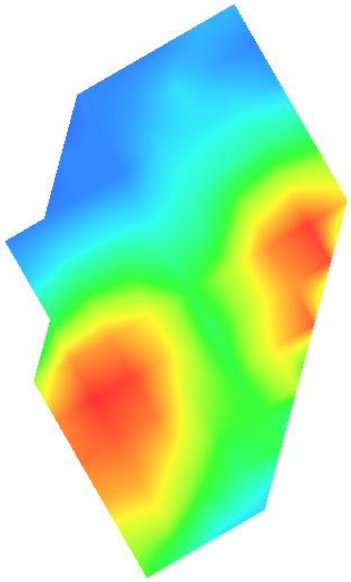
Maximum location: X=-57.00, Y=-60.00

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.083997
SAR 1g (W/Kg)	0.158081

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.2385	0.1648	0.0972	0.0514	0.0224



3D screen shot	Hot spot position
	

Plot 16: LTE Band4, 20MHz, Face, Middle,10mm

Type: Phone measurement

Date of measurement: 01/10/2020

Measurement duration: 22 minutes 18 seconds

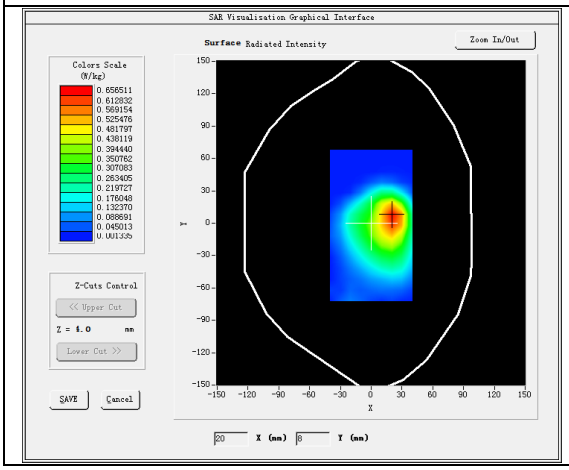
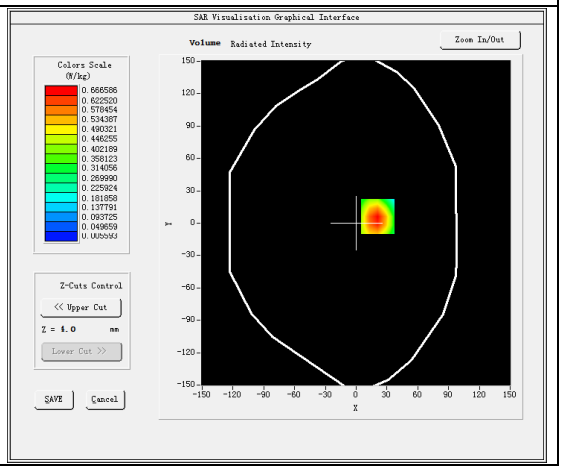
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	53.45
Relative permittivity (imaginary	15.50
Conductivity (S/m)	1.55
Variation (%)	-1.91
ConvF:	2.22

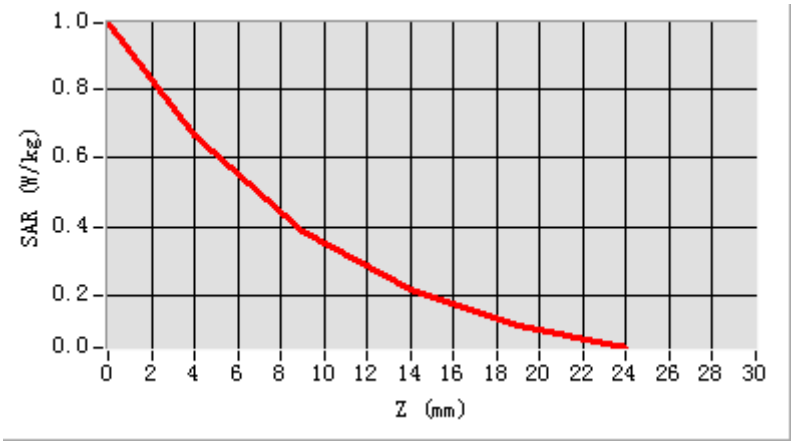
SURFACE SAR	**VOLUME SAR**
	

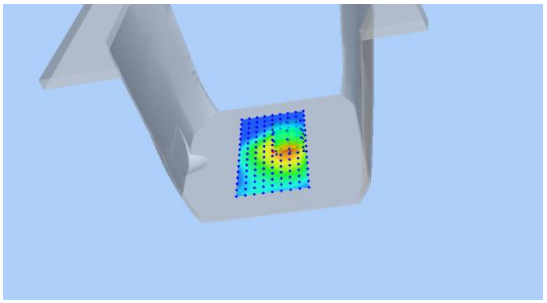
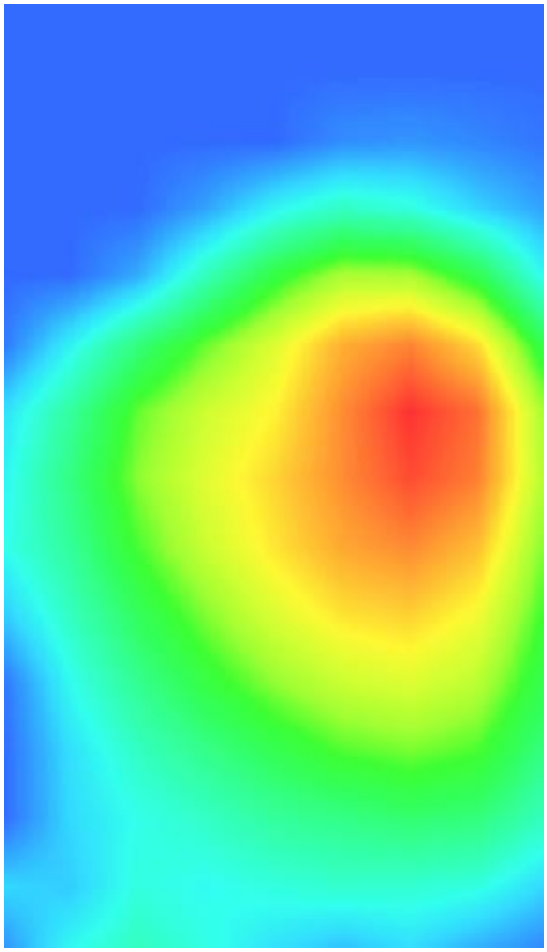
Maximum location: X=21.00, Y=6.00

SAR Peak: 1.00W/kg

SAR 10g (W/Kg)	0.351424
SAR 1g (W/Kg)	0.628835

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.9919	0.6666	0.3894	0.2170	0.1136



3D screen shot	Hot spot position
	

Plot 17: LTE Band5, 10MHz,Right Cheek, Middle

Type: Phone measurement

Date of measurement: 01/09/2020

Measurement duration: 22 minutes 17 seconds

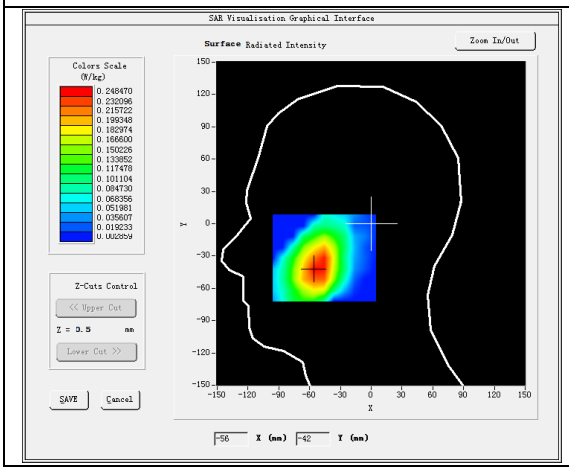
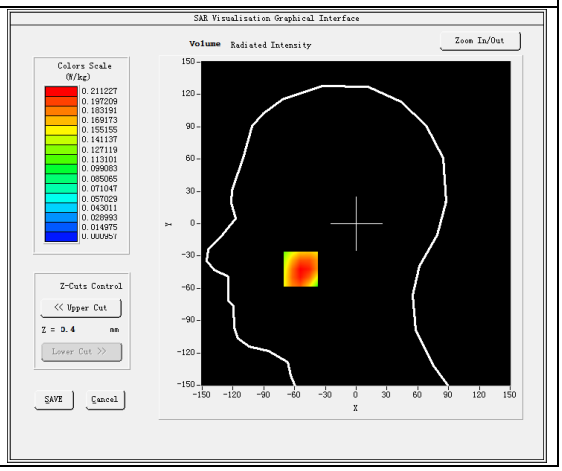
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Cheek
Band	LTE Band 5
Channels	20525
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.5
Relative permittivity (real part)	41.53
Relative permittivity (imaginary	19.83
Conductivity (S/m)	0.92
Variation (%)	-2.80
ConvF:	1.92

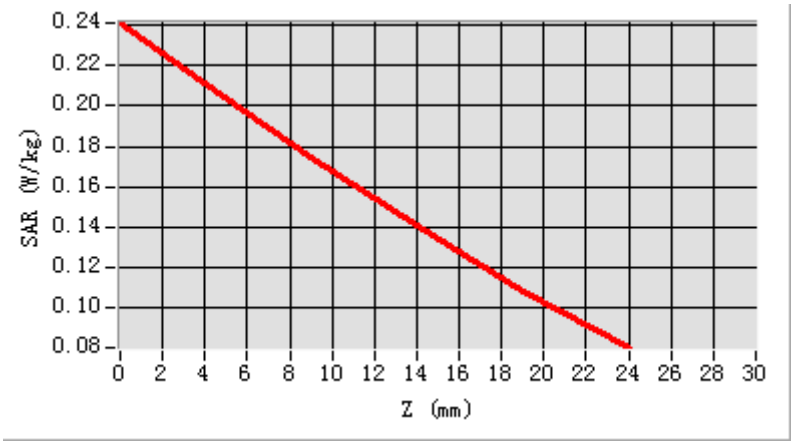
SURFACE SAR	**VOLUME SAR**
	

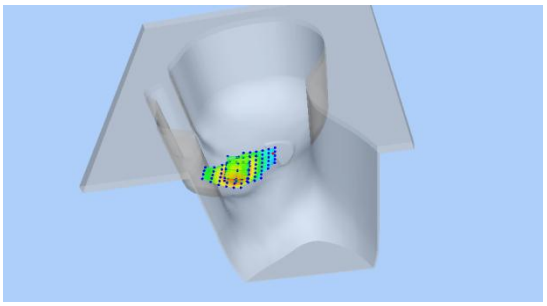
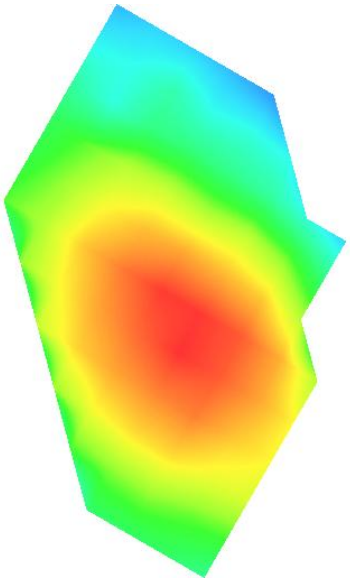
Maximum location: X=-54.00, Y=-42.00

SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.154849
SAR 1g (W/Kg)	0.209449

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.2412	0.2112	0.1749	0.1405	0.1086



3D screen shot	Hot spot position
	

Plot 18: LTE Band5, 10MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 01/09/2020

Measurement duration: 22 minutes 14 seconds

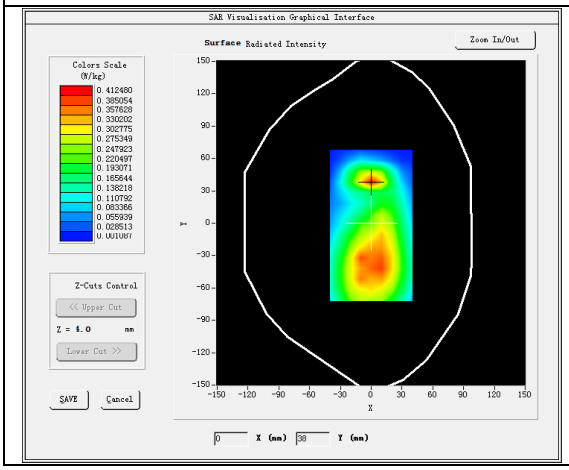
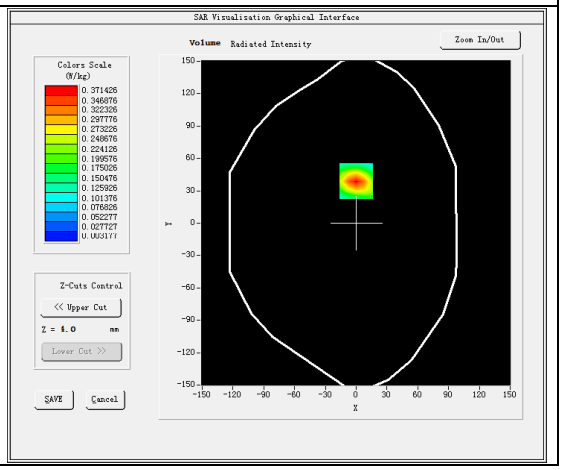
Mobile Phone IMEI number: --

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 5
Channels	20525
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.5
Relative permittivity (real part)	55.31
Relative permittivity (imaginary	20.91
Conductivity (S/m)	0.97
Variation (%)	-3.00
ConvF:	1.99

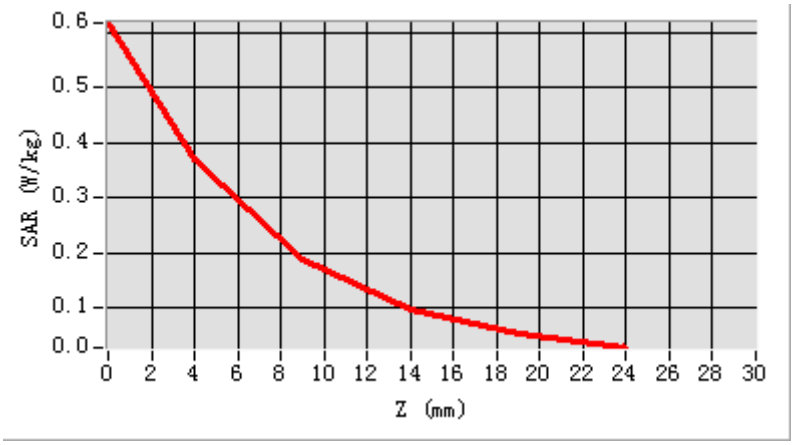
SURFACE SAR	**VOLUME SAR**
	

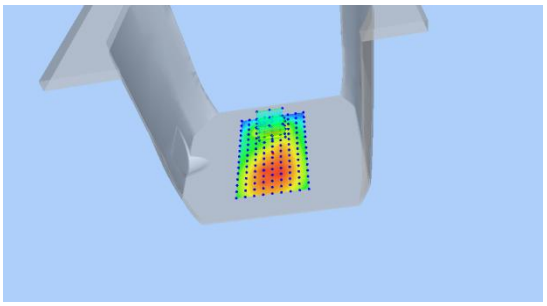
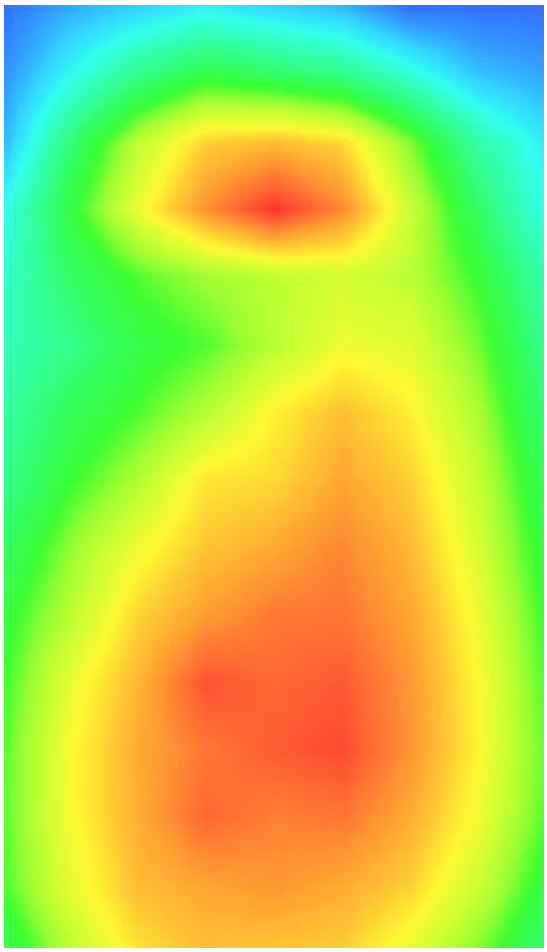
Maximum location: X=0.00, Y=39.00

SAR Peak: 0.62W/kg

SAR 10g (W/Kg)	0.175937
SAR 1g (W/Kg)	0.350256

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.6182	0.3714	0.1884	0.0955	0.0517



3D screen shot	Hot spot position
	

Plot 19: LTE Band7, 20MHz,Left Cheek, Middle

Type: Phone measurement

Date of measurement: 01/13/2020

Measurement duration: 22 minutes 15 seconds

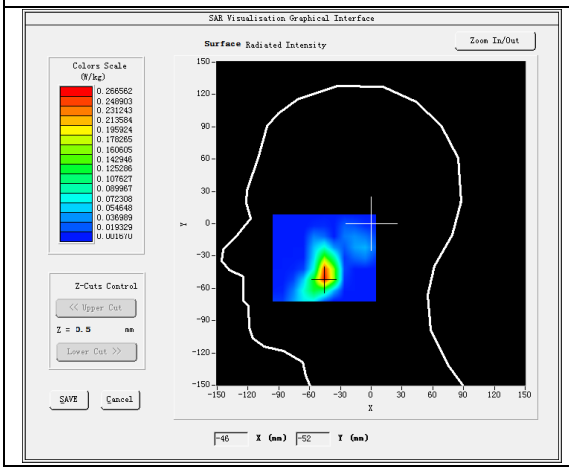
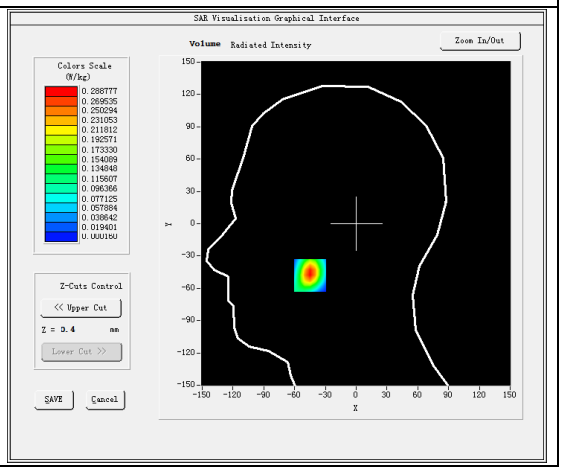
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Left Cheek
Band	LTE Band 7
Channels	21350
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2560
Relative permittivity (real part)	39.09
Relative permittivity (imaginary	13.64
Conductivity (S/m)	1.97
Variation (%)	-4.87
ConvF:	2.35

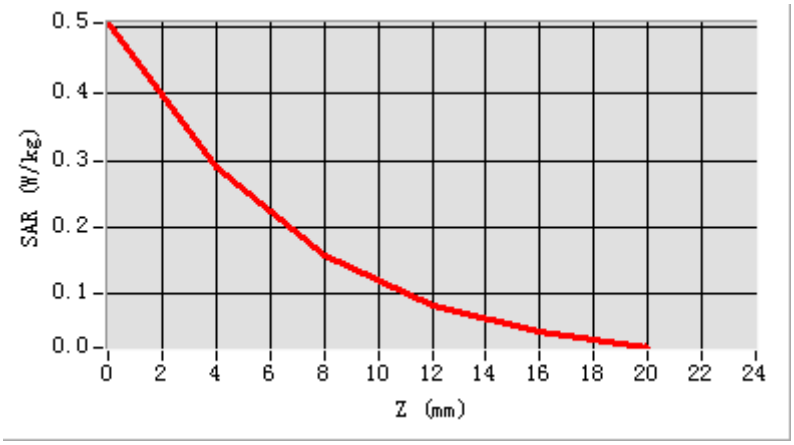
SURFACE SAR	VOLUME SAR
	

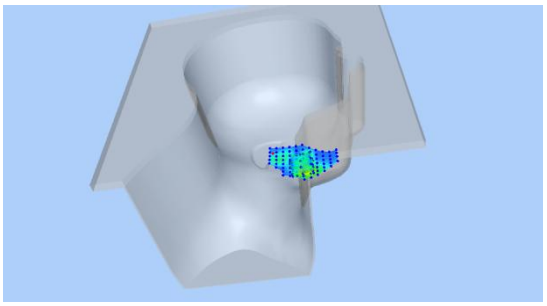
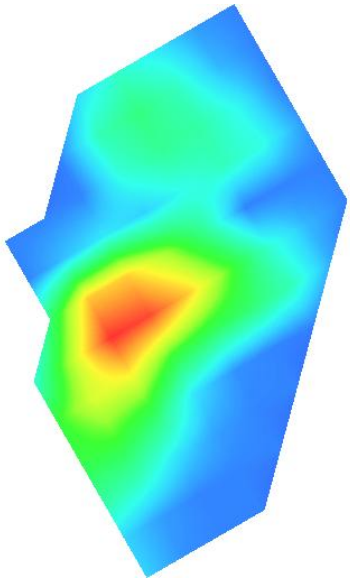
Maximum location: X=-45.00 Y=-48.00

SAR Peak: 0.51W/kg

SAR 10g (W/Kg)	0.109540
SAR 1g (W/Kg)	0.261775

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.5060	0.2888	0.1572	0.0828	0.0428



3D screen shot	Hot spot position
	

Plot 20: LTE Band7, 20MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 01/13/2020

Measurement duration: 22 minutes 23 seconds

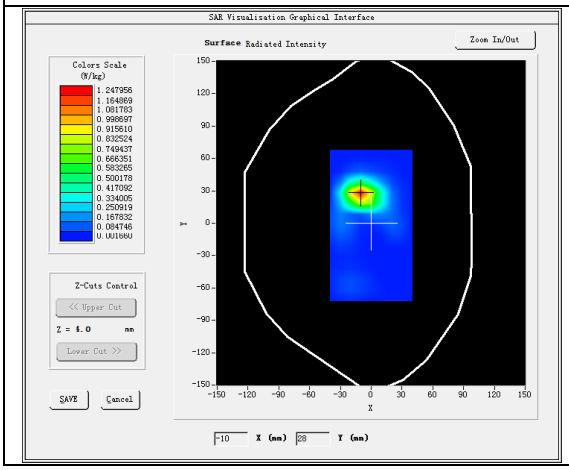
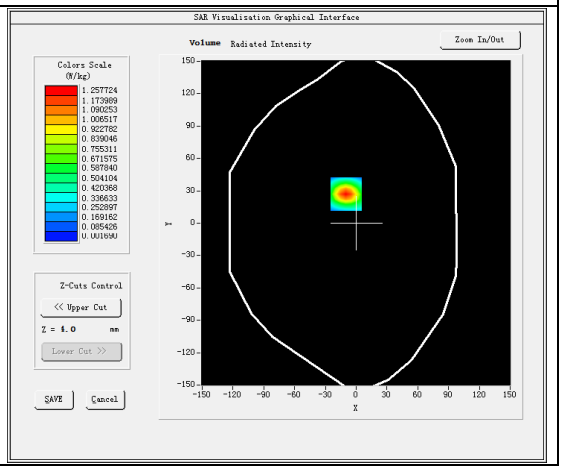
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Back
Band	LTE Band 7
Channels	21350
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2560
Relative permittivity (real part)	52.61
Relative permittivity (imaginary	15.09
Conductivity (S/m)	2.18
Variation (%)	3.94
ConvF:	2.43

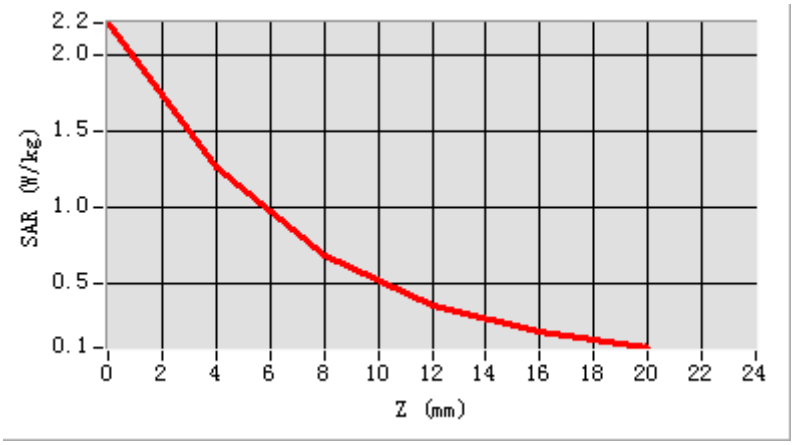
SURFACE SAR	**VOLUME SAR**
	

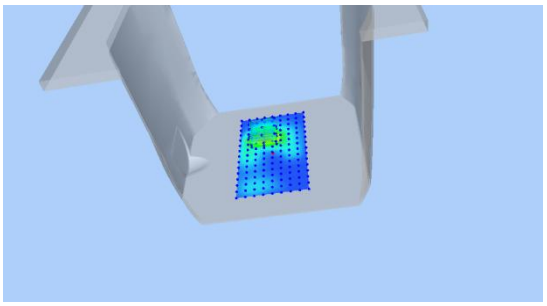
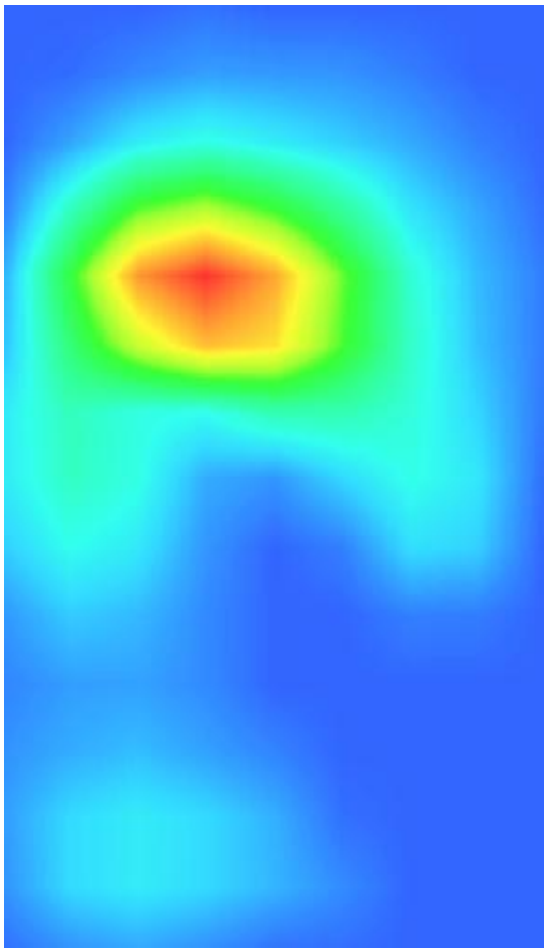
Maximum location: X=-10.00 , Y=27.00

SAR Peak: 2.20 W/kg

SAR 10g (W/Kg)	0.480934
SAR 1g (W/Kg)	1.113732

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	2.2049	1.2577	0.6828	0.3571	0.1813



3D screen shot	Hot spot position
	

Plot 21: LTE Band26, 10MHz,Right Cheek, Middle

Type: Phone measurement

Date of measurement: 01/09/2020

Measurement duration: 22 minutes 21 seconds

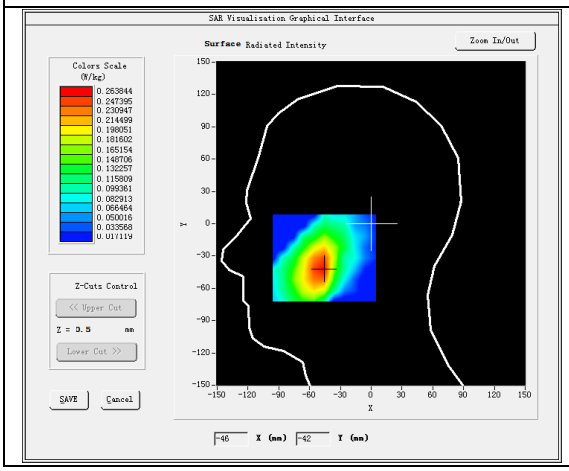
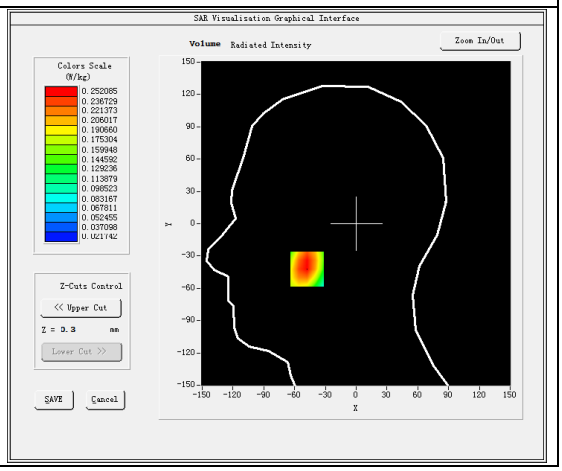
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Cheek
Band	LTE Band 26
Channels	26865
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	831.5
Relative permittivity (real part)	41.53
Relative permittivity (imaginary	19.83
Conductivity (S/m)	0.92
Variation (%)	-1.50
ConvF:	1.92

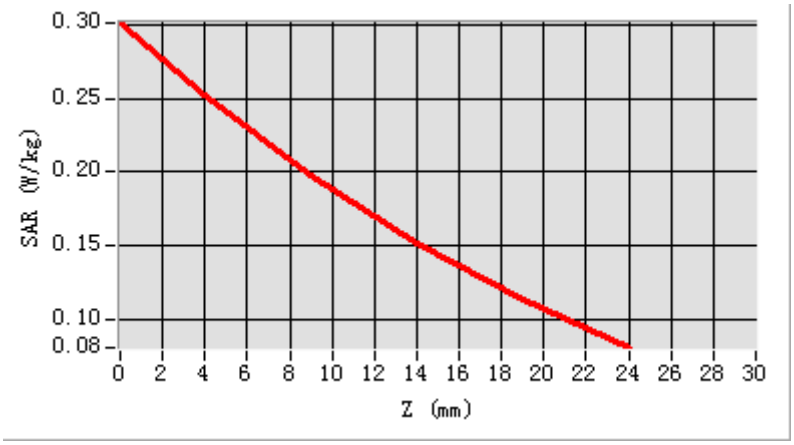
SURFACE SAR	**VOLUME SAR**
	

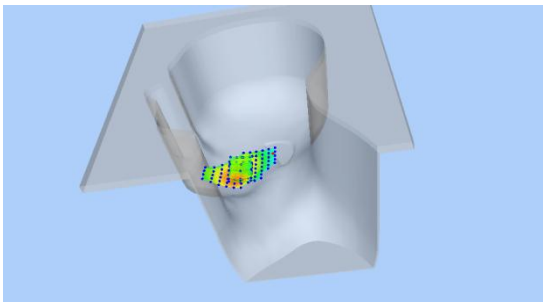
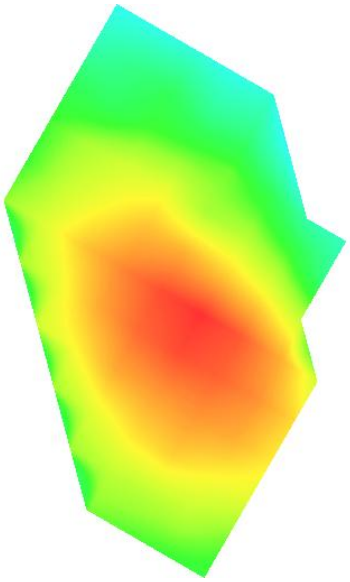
Maximum location: X=-48.00, Y=-42.00

SAR Peak: 0.31 W/kg

SAR 10g (W/Kg)	0.175385
SAR 1g (W/Kg)	0.243630

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.3013	0.2521	0.1982	0.1523	0.1135



3D screen shot	Hot spot position
	

Plot 22: LTE Band26, 10MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 01/09/2020

Measurement duration: 22 minutes 22 seconds

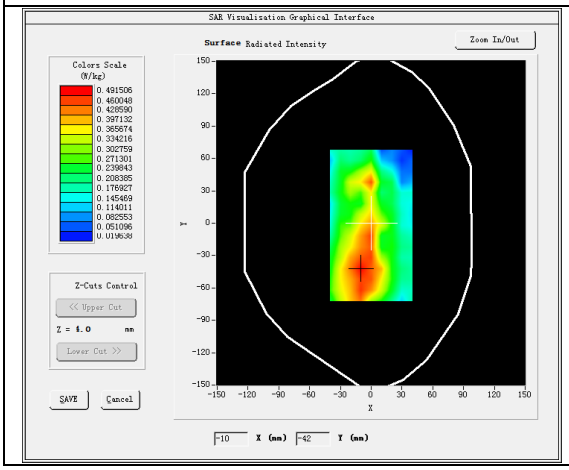
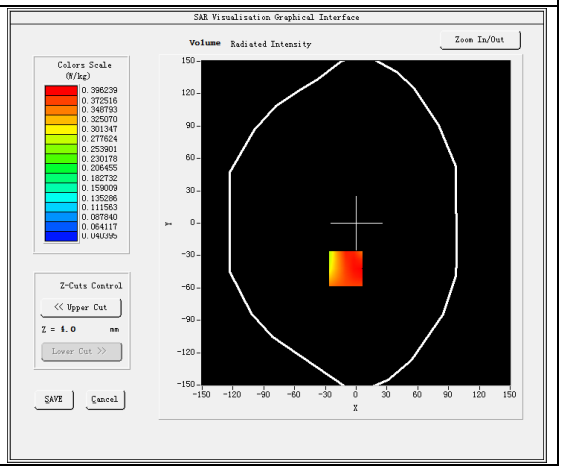
Mobile Phone IMEI number: --

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 26
Channels	26865
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	831.5
Relative permittivity (real part)	55.31
Relative permittivity (imaginary	20.91
Conductivity (S/m)	0.97
Variation (%)	-2.35
ConvF:	1.99

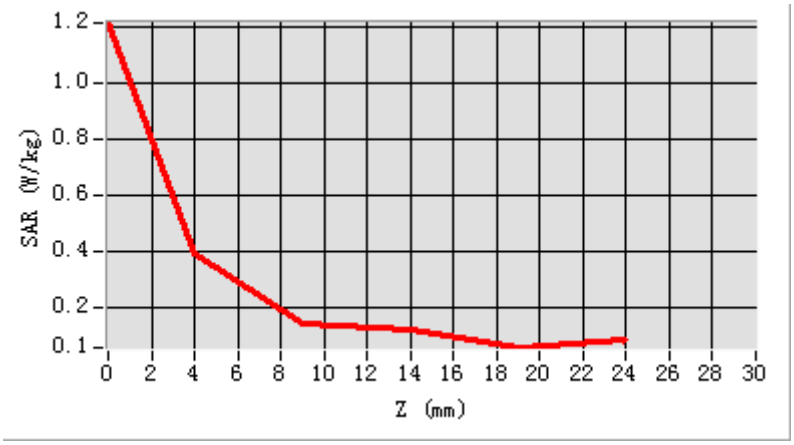
SURFACE SAR	**VOLUME SAR**
	

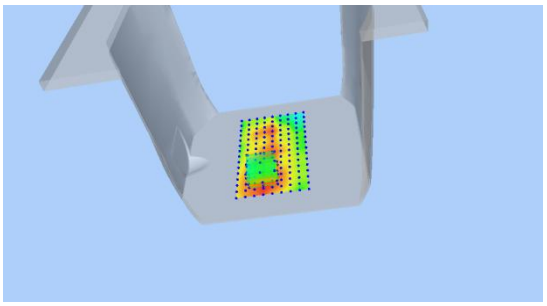
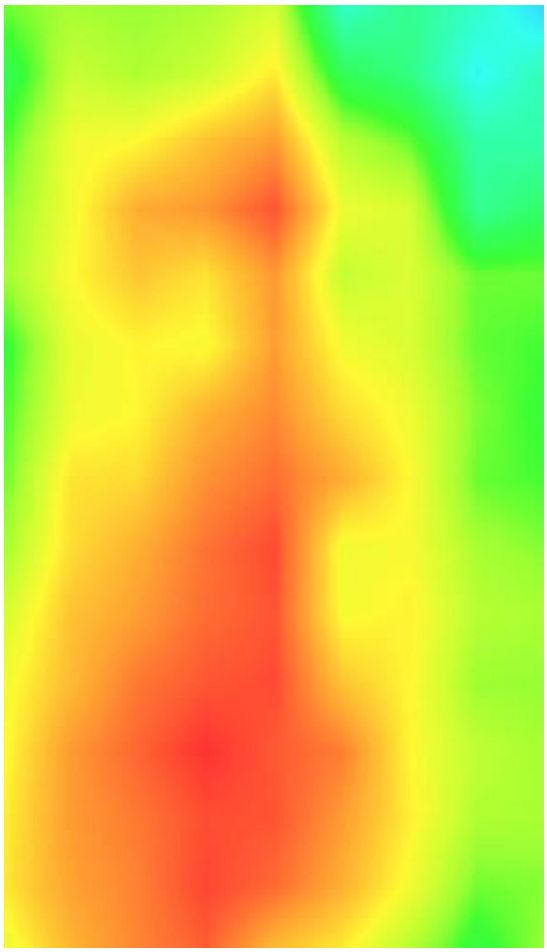
Maximum location: X=-10.00, Y=-42.00

SAR Peak: 0.70W/kg

SAR 10g (W/Kg)	0.259425
SAR 1g (W/Kg)	0.420170

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.2146	0.3962	0.1418	0.1210	0.0572



3D screen shot	Hot spot position
	

Plot 23: LTE Band66, 20MHz,Left Cheek, Middle

Type: Phone measurement

Date of measurement: 01/10/2020

Measurement duration: 22 minutes 20 seconds

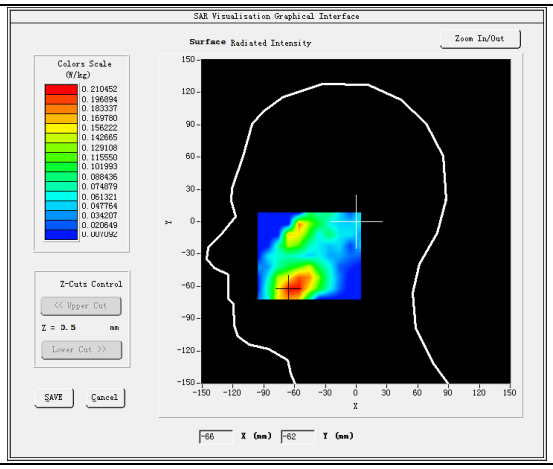
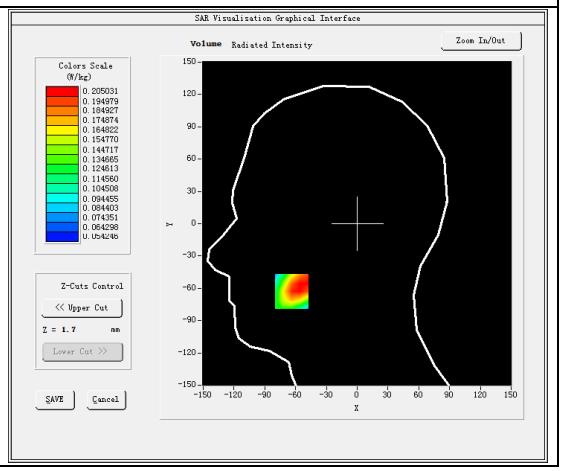
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Left Cheek
Band	LTE Band 66
Channels	132197
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	40.48
Relative permittivity (imaginary	14.00
Conductivity (S/m)	1.40
Variation (%)	4.19
ConvF:	2.14

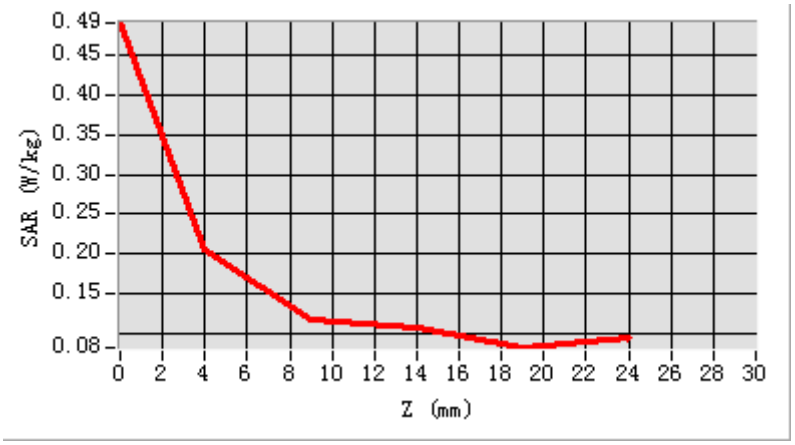
SURFACE SAR	**VOLUME SAR**
	

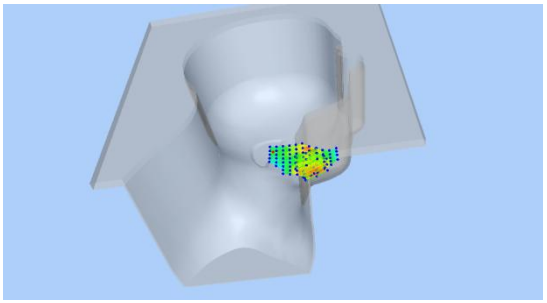
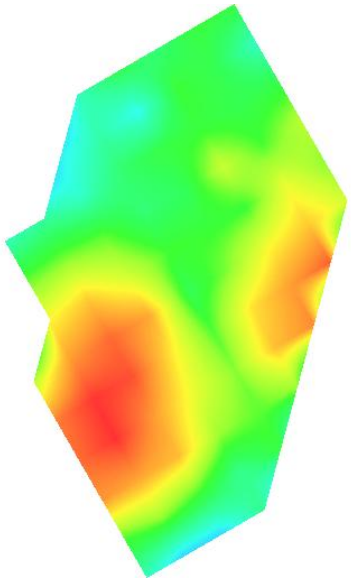
Maximum location: X=-64.00, Y=-63.00

SAR Peak: 0.30W/kg

SAR 10g (W/Kg)	0.142204
SAR 1g (W/Kg)	0.204274

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4912	0.2050	0.1160	0.1063	0.0814



3D screen shot	Hot spot position
	

Plot 24: LTE Band66, 20MHz, Face, Middle,10mm

Type: Phone measurement

Date of measurement: 01/10/2020

Measurement duration: 22 minutes 28 seconds

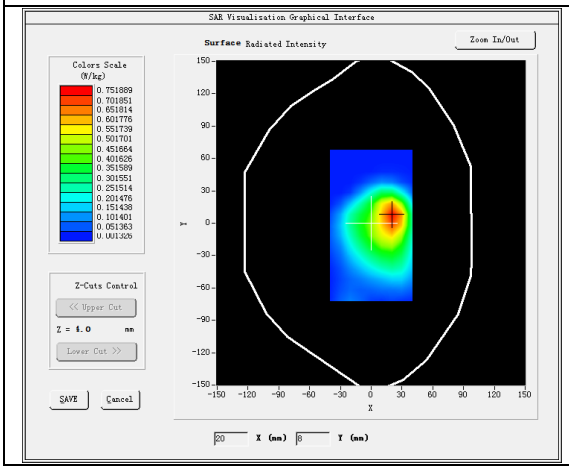
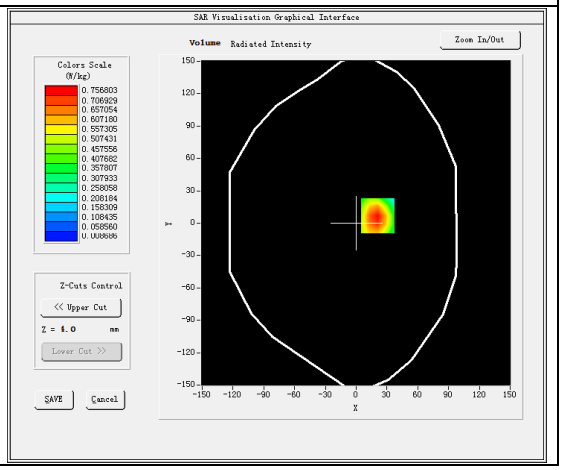
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face
Band	LTE Band 66
Channels	132197
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	53.45
Relative permittivity (imaginary	15.50
Conductivity (S/m)	1.55
Variation (%)	-1.97
ConvF:	2.22

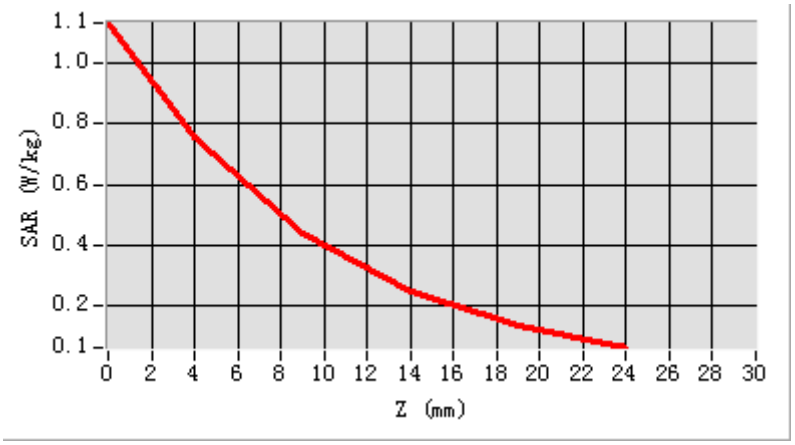
SURFACE SAR	**VOLUME SAR**
	

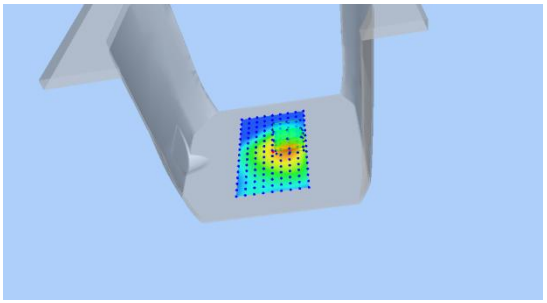
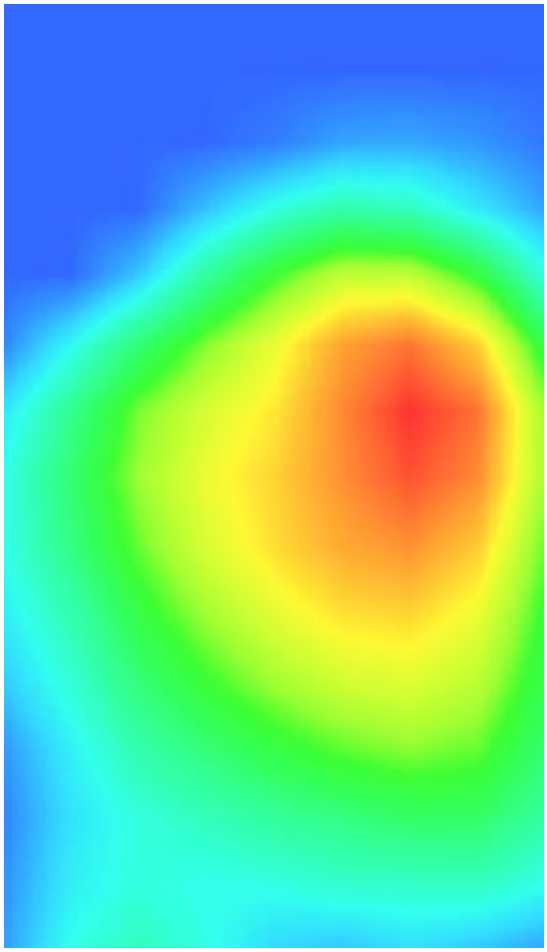
Maximum location: X=21.00, Y=7.00

SAR Peak: 1.14W/kg

SAR 10g (W/Kg)	0.399954
SAR 1g (W/Kg)	0.714687

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.1318	0.7568	0.4410	0.2476	0.1331



3D screen shot	Hot spot position
	

Plot 25: Wi-Fi 802.11b Left Cheek, Middle

Type: Phone measurement

Date of measurement: 01/12/2020

Measurement duration: 22 minutes 25 seconds

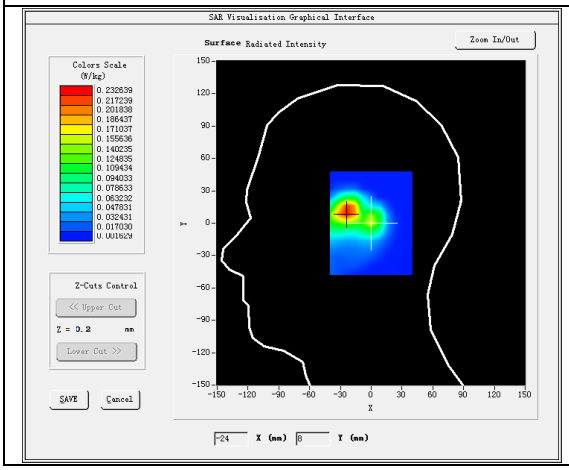
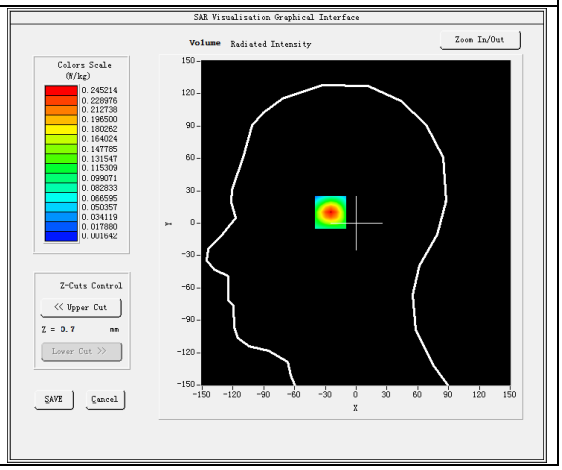
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Left Cheek
Band	WIFI
Channels	6
Signal	DSSS (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2437
Relative permittivity (real part)	39.32
Relative permittivity (imaginary	13.30
Conductivity (S/m)	1.81
Variation (%)	0.38
ConvF:	2.37

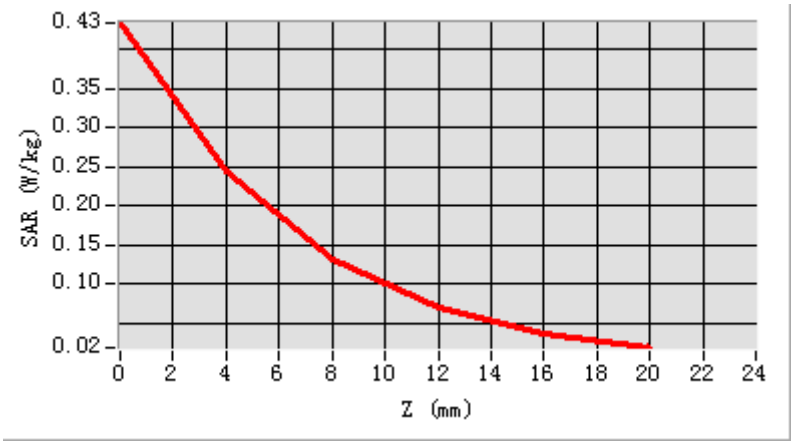
SURFACE SAR	**VOLUME SAR**
	

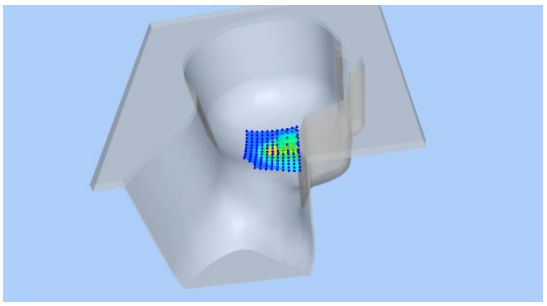
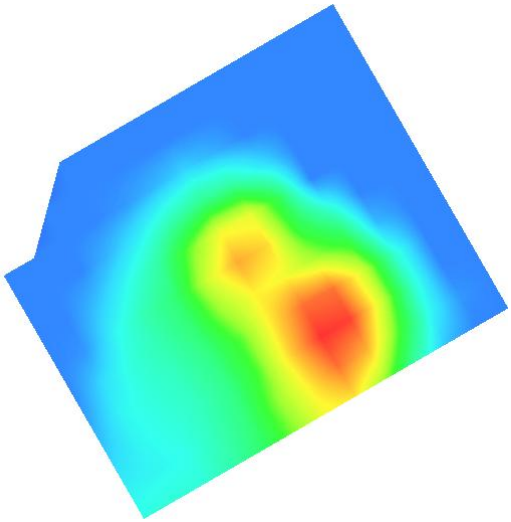
Maximum location: X=-24.00 Y=11.00

SAR Peak: 0.43 W/kg

SAR 10g (W/Kg)	0.101470
SAR 1g (W/Kg)	0.224553

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.4346	0.2452	0.1323	0.0698	0.0369



3D screen shot	Hot spot position
	

Plot 26: Wi-Fi 802.11b, Back ,Middle, 10mm

Type: Phone measurement

Date of measurement: 01/12/2020

Measurement duration: 22 minutes 24 seconds

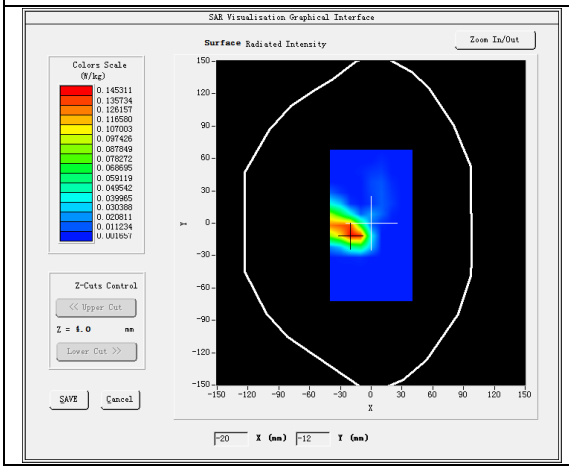
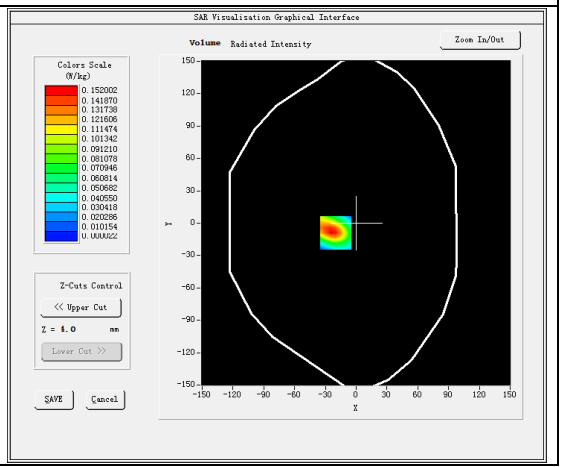
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Back
Band	WIFI
Channels	6
Signal	DSSS (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2437
Relative permittivity (real part)	52.80
Relative permittivity (imaginary	14.47
Conductivity (S/m)	1.97
Variation (%)	1.53
ConvF:	2.46

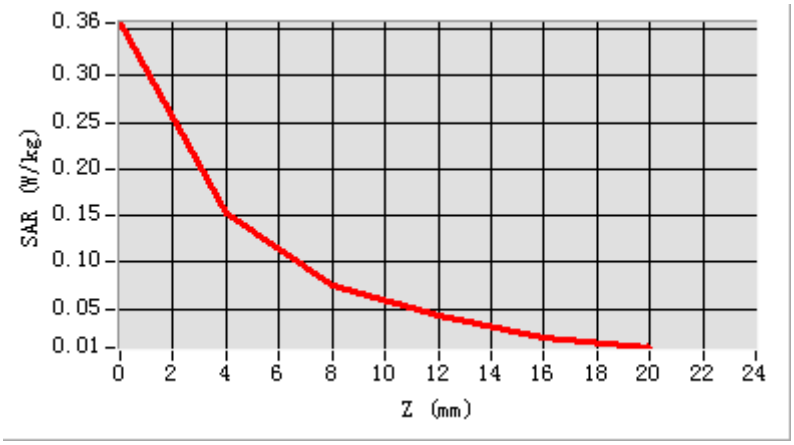
SURFACE SAR	**VOLUME SAR**
	

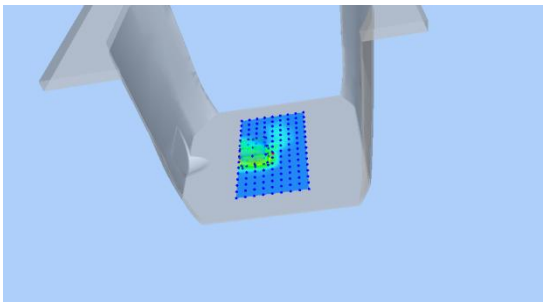
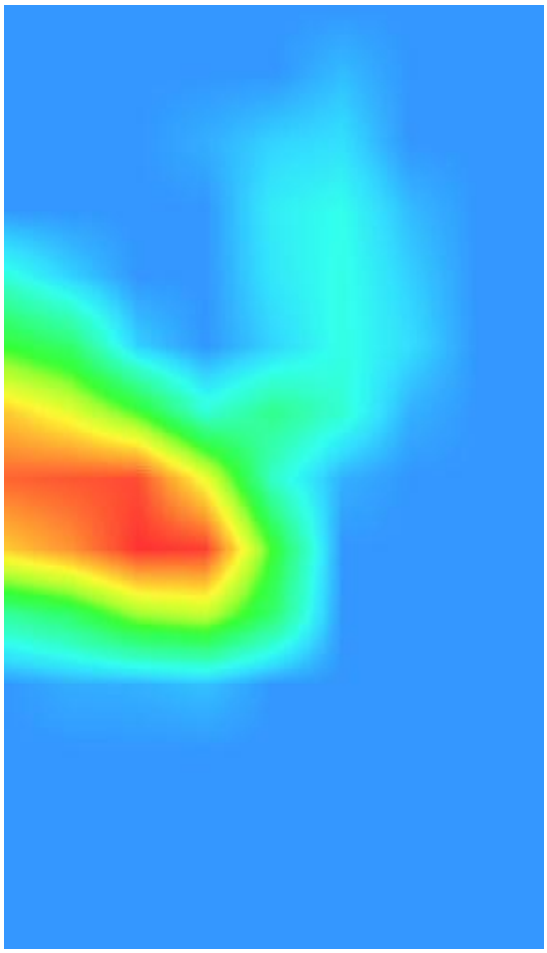
Maximum location: X=-20.00 Y=-9.00

SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.064962
SAR 1g (W/Kg)	0.144989

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.3562	0.1520	0.0743	0.0423	0.0186



3D screen shot	Hot spot position
	

Plot 27: BT, Left Cheek, Middle

Type: Phone measurement

Date of measurement: 01/12/2020

Measurement duration: 22 minutes 27 seconds

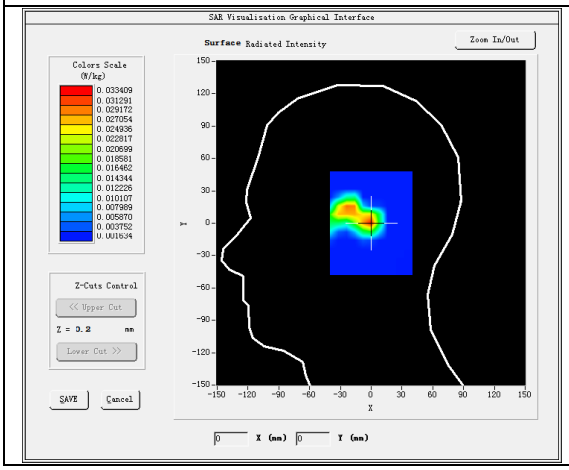
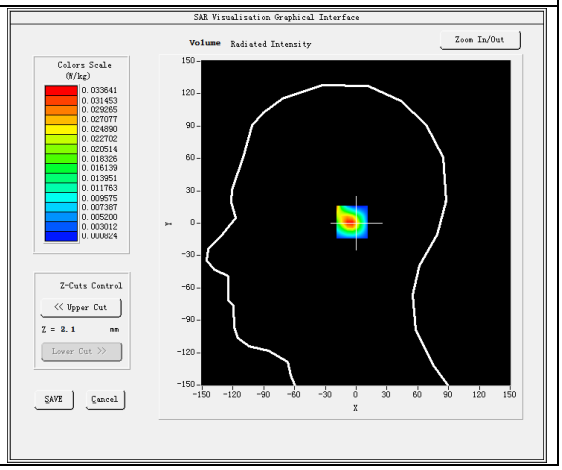
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Left Cheek
Band	BT
Channels	39
Signal	GFSK (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2441
Relative permittivity (real part)	39.32
Relative permittivity (imaginary	13.30
Conductivity (S/m)	1.81
Variation (%)	-1.27
ConvF:	2.37

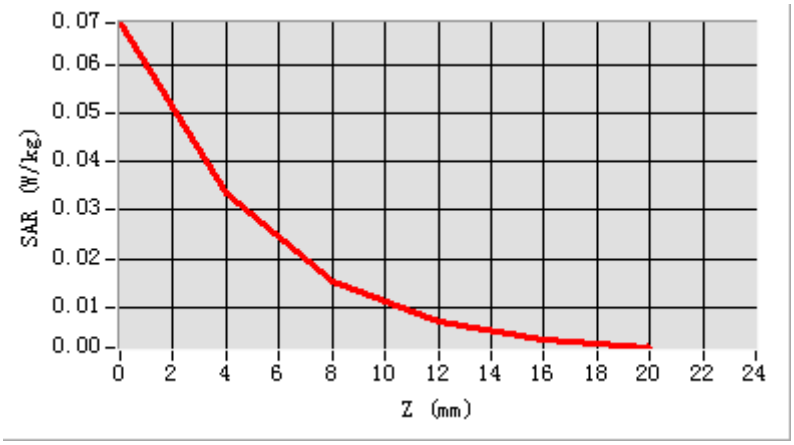
SURFACE SAR	**VOLUME SAR**
	

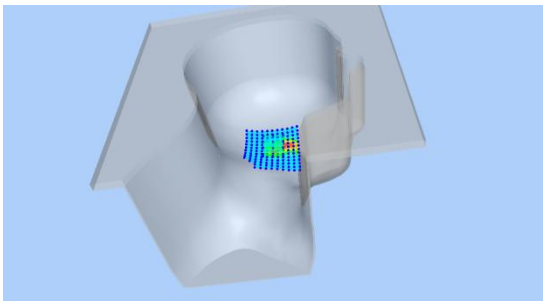
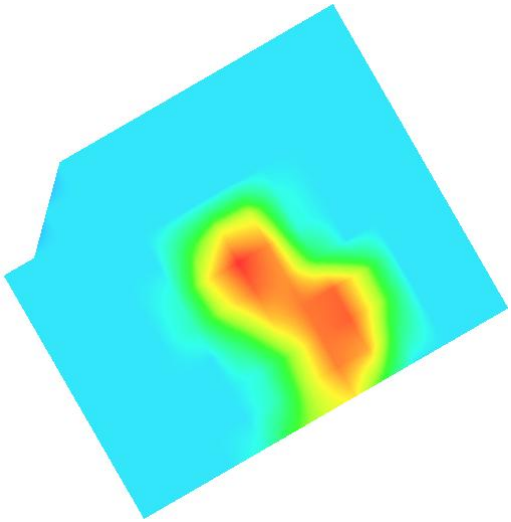
Maximum location: X=-1.00 Y=1.00

SAR Peak: 0.07 W/kg

SAR 10g (W/Kg)	0.012017
SAR 1g (W/Kg)	0.030774

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.0685	0.0336	0.0153	0.0068	0.0033



3D screen shot	Hot spot position
	

Plot 28: BT, Back, Middle, 10mm

Type: Phone measurement

Date of measurement: 01/12/2020

Measurement duration: 22 minutes 29 seconds

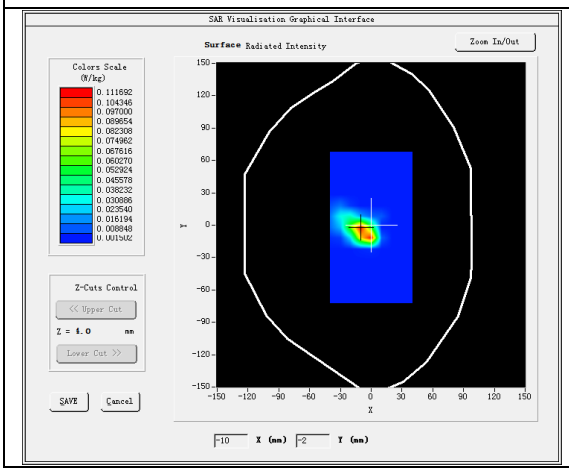
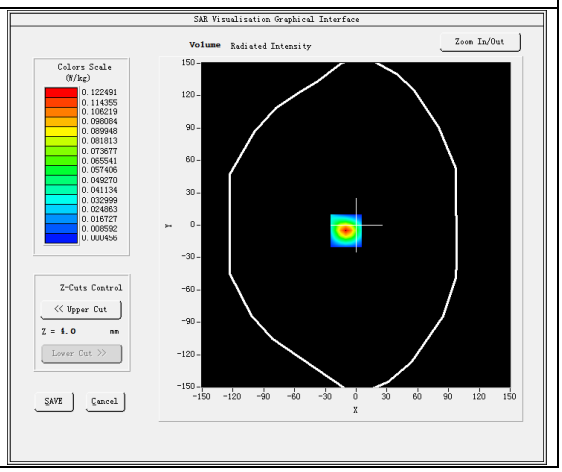
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	BT3.0
Channels	39
Signal	GFSK (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2441
Relative permittivity (real part)	52.80
Relative permittivity (imaginary	14.47
Conductivity (S/m)	1.97
Variation (%)	-4.49
ConvF:	2.46

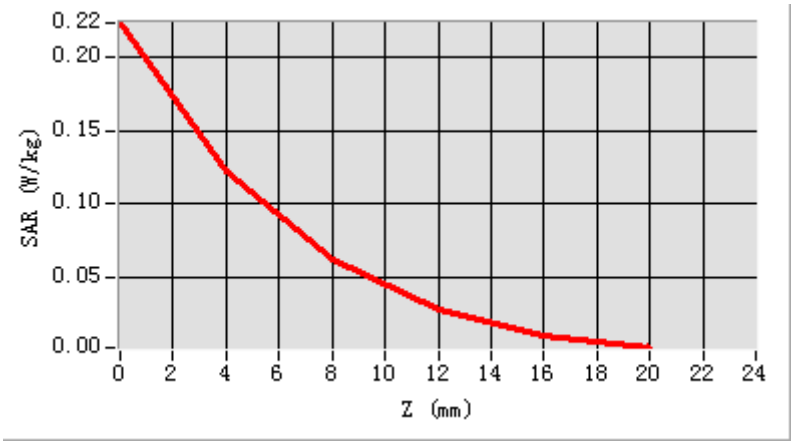
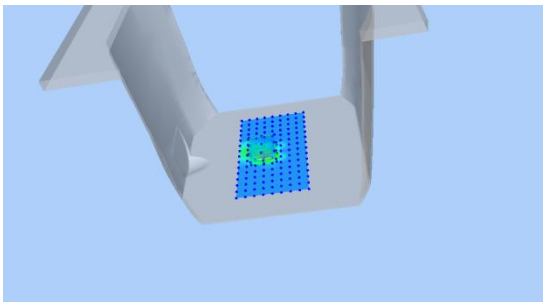
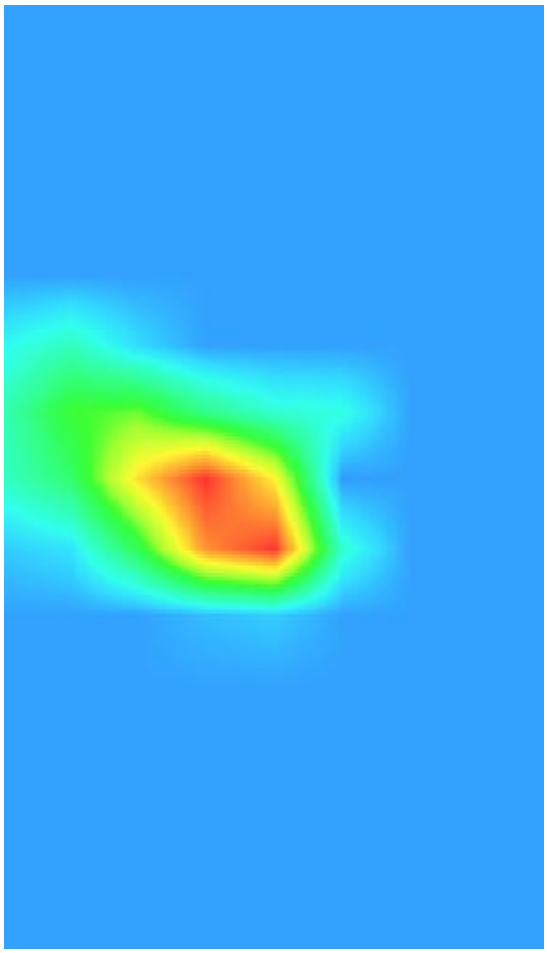
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=-10.00 Y=-5.00

SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.038138
SAR 1g (W/Kg)	0.105688

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2234	0.1225	0.0614	0.0273	0.0098



3D screen shot	Hot spot position