

Appendix B: SAR Measurement results Plots

Plot	Frequency/Mode	Testing Position and Channel	Test Date
1	GSM850	Right Cheek Middle	2020/03/25
2	GSM850/GPRS4Tx	Body Back, Middle ,10mm	2020/03/25
3	GSM1900	Right Cheek Middle	2020/03/27
4	GSM1900/GPRS4Tx	Body Back, Middle ,10mm	2020/03/27
5	WCDMA1900	Right Cheek Middle	2020/03/27
6	WCDMA1900	Body Back, Middle ,10mm	2020/03/27
7	WCDMA1700	Right Cheek Middle	2020/03/26
8	WCDMA1700	Body Back, Middle ,10mm	2020/03/26
9	WCDMA850	Right Cheek Middle	2020/03/25
10	WCDMA850	Body Back, Middle ,10mm	2020/03/25
11	LTE Band2	Right Cheek Middle	2020/03/27
12	LTE Band2	Body Back, Middle ,10mm	2020/03/27
13	LTE Band4	Right Cheek Middle	2020/03/26
14	LTE Band4	Body Back, Middle ,10mm	2020/03/26
15	LTE Band5	Right Cheek Middle	2020/03/25
16	LTE Band5	Body Back, Middle ,10mm	2020/03/25
17	LTE Band7	Right Cheek Middle	2020/03/30
18	LTE Band7	Body Back, Middle ,10mm	2020/03/30
19	LTE Band7, upper Antenna	Left Cheek Middle	2020/03/30
20	LTE Band7 upper Antenna	Body Back, Middle ,10mm	2020/03/30
21	LTE Band7 upper Antenna	Edge A, Middle ,10mm	2020/03/30
22	LTE Band12	Right Cheek Middle	2020/03/24
23	LTE Band12	Body Back, Middle ,10mm	2020/03/24
24	LTE Band17	Right Cheek Middle	2020/03/24
25	LTE Band17	Body Back, Middle ,10mm	2020/03/24
26	LTE Band26	Right Cheek Middle	2020/03/25
27	LTE Band26	Body Back, Middle ,10mm	2020/03/25
28	LTE Band66	Right Cheek Middle	2020/03/26
29	LTE Band66	Body Back, Middle ,10mm	2020/03/26
30	WIFI 2.4G 802.11b	Right Cheek Middle	2020/03/28
31	WIFI 2.4G 802.11b	Body Back, Middle ,10mm	2020/03/28
32	WIFI 5G 802.11a	Right Cheek Middle	2020/03/31
33	WIFI 5G 802.11a	Body Back, Middle ,10mm	2020/03/31

Plot 1: GSM850, Right Cheek, Middle

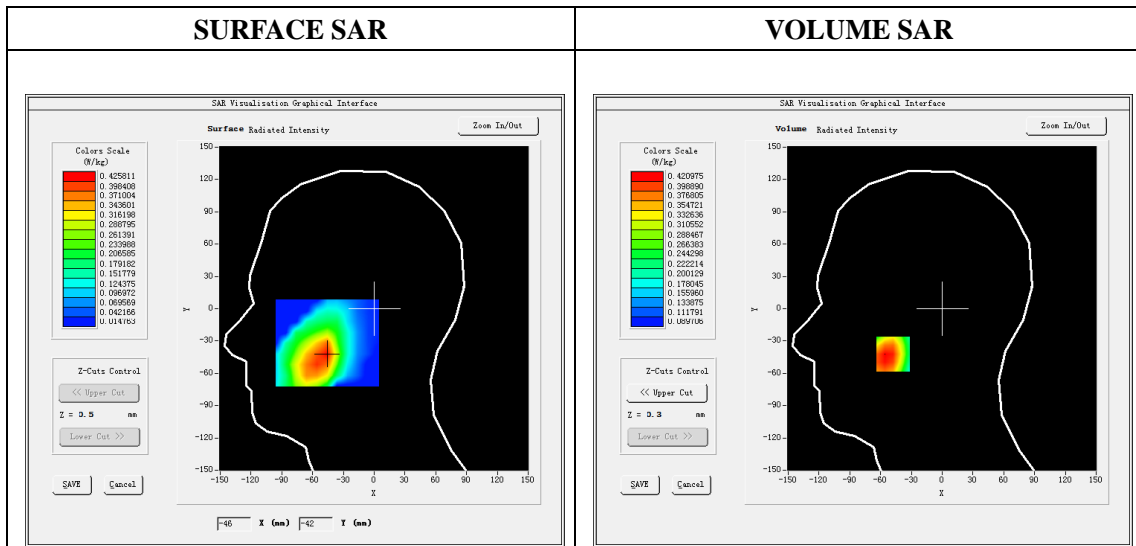
Type: Phone measurement
 Date of measurement: 03/25/2020
 Measurement duration: 22 minutes 05 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	836.6
Relative permittivity (real part)	41.59
Relative permittivity (imaginary part)	18.85
Conductivity (S/m)	0.89
Variation (%)	-4.55
ConvF:	1.60

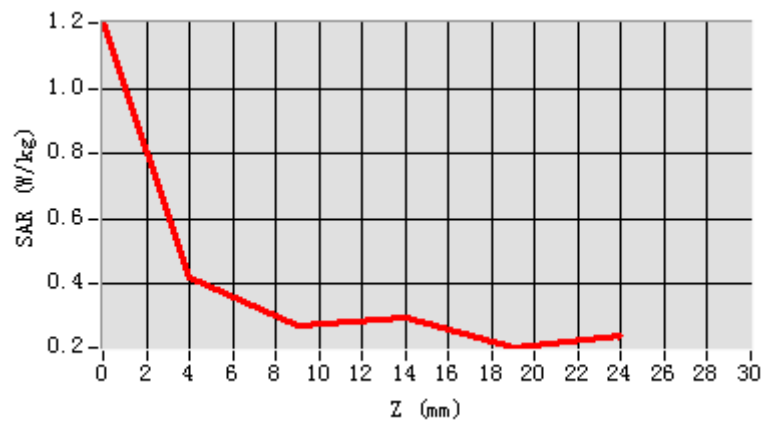


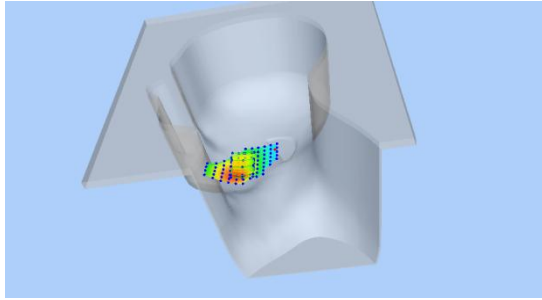
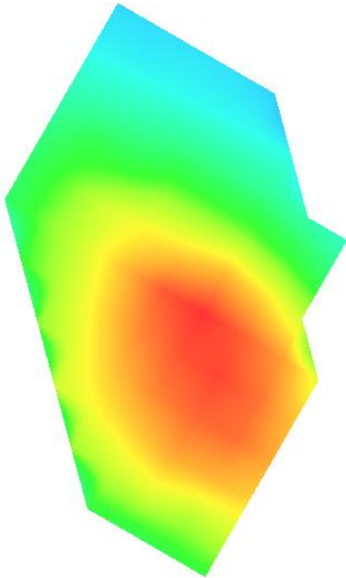
Maximum location: X=-48.00, Y=-42.00

SAR Peak: 0.52W/kg

SAR 10g (W/Kg)	0.324094
SAR 1g (W/Kg)	0.412414

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.1999	0.4210	0.2715	0.2960	0.2053



3D screen shot	Hot spot position
	

Plot 2: GPRS850, Back, Middle,10mm

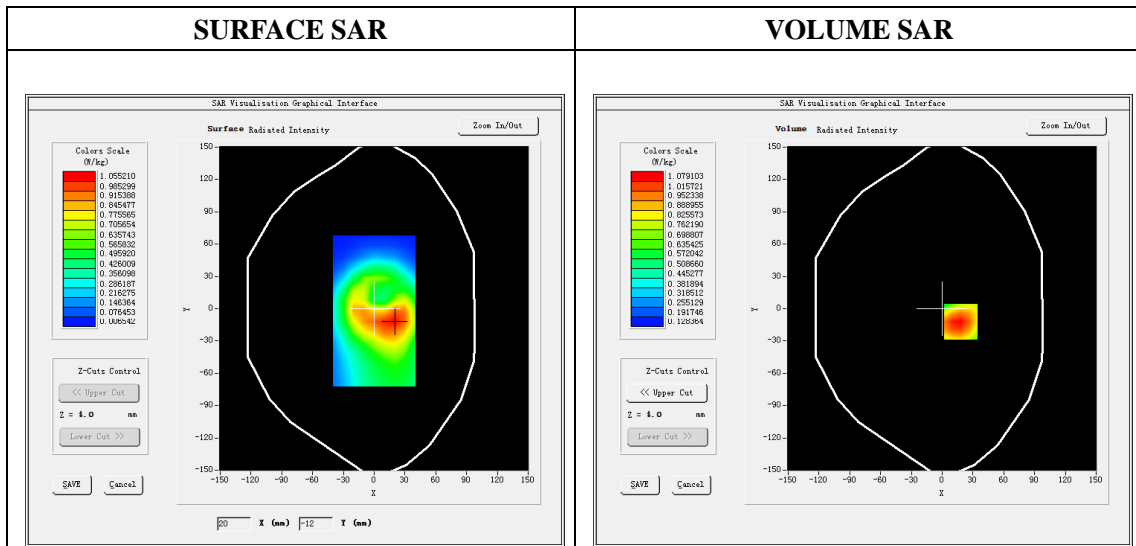
Type: Phone measurement
 Date of measurement: 03/25/2020
 Measurement duration: 22 minutes 02 seconds
 Mobile Phone IMEI number: --

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_41/18_EPG0330
Frequency (MHz)	836.6
Relative permittivity (real part)	55.19
Relative permittivity (imaginary part)	21.34
Conductivity (S/m)	0.99
Variation (%)	1.32
ConvF:	1.64

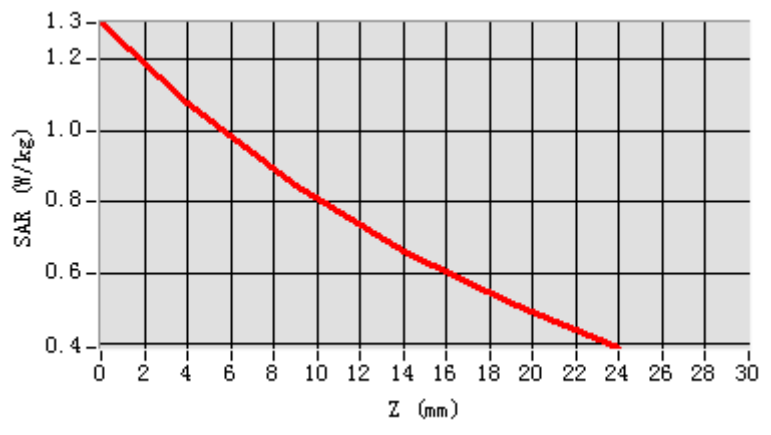


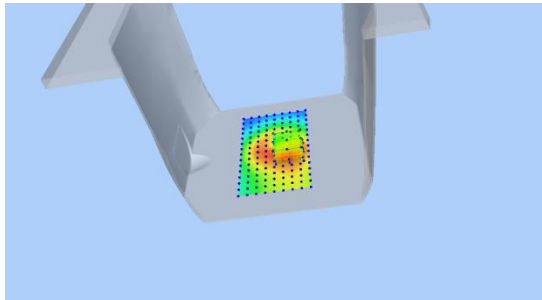
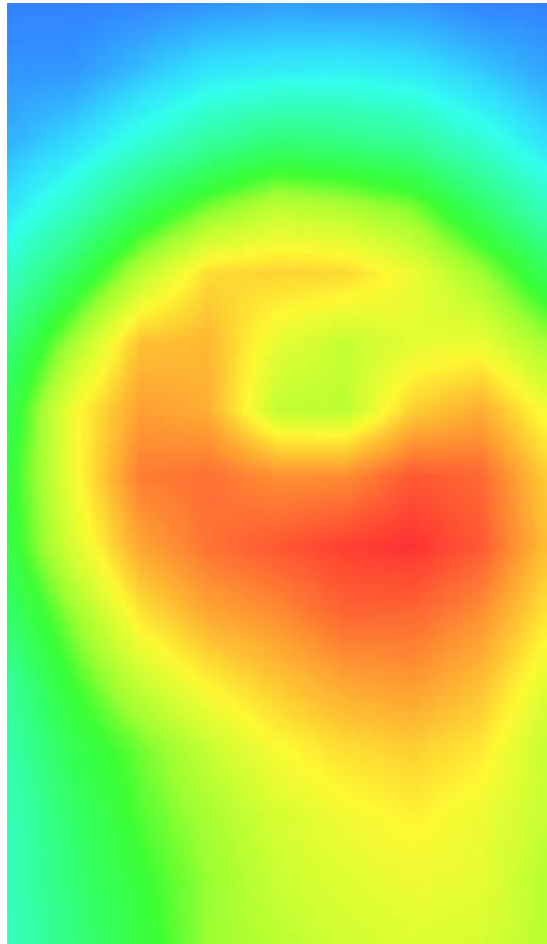
Maximum location: X=18.00, Y=-12.00

SAR Peak: 1.32 W/kg

SAR 10g (W/Kg)	0.772790
SAR 1g (W/Kg)	1.042764

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.3022	1.0791	0.8478	0.6624	0.5135



3D screen shot	Hot spot position
	

Plot 3: GSM1900, Right Cheek, Middle

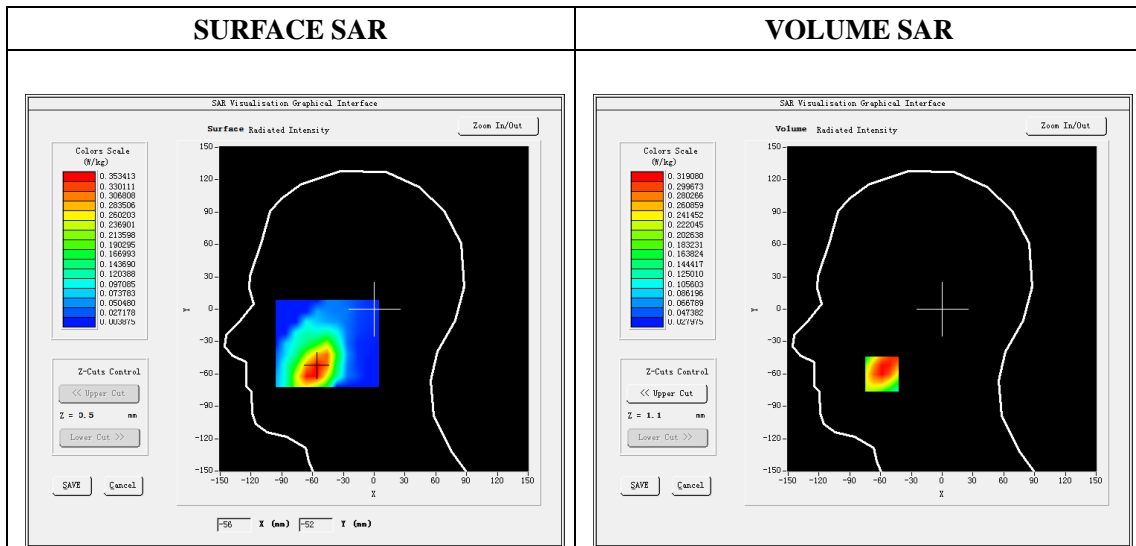
Type: Phone measurement
 Date of measurement: 03/27/2020
 Measurement duration: 22 minutes 01 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	1880
Relative permittivity (real part)	40.53
Relative permittivity (imaginary part)	13.36
Conductivity (S/m)	1.41
Variation (%)	-3.41
ConvF:	2.03

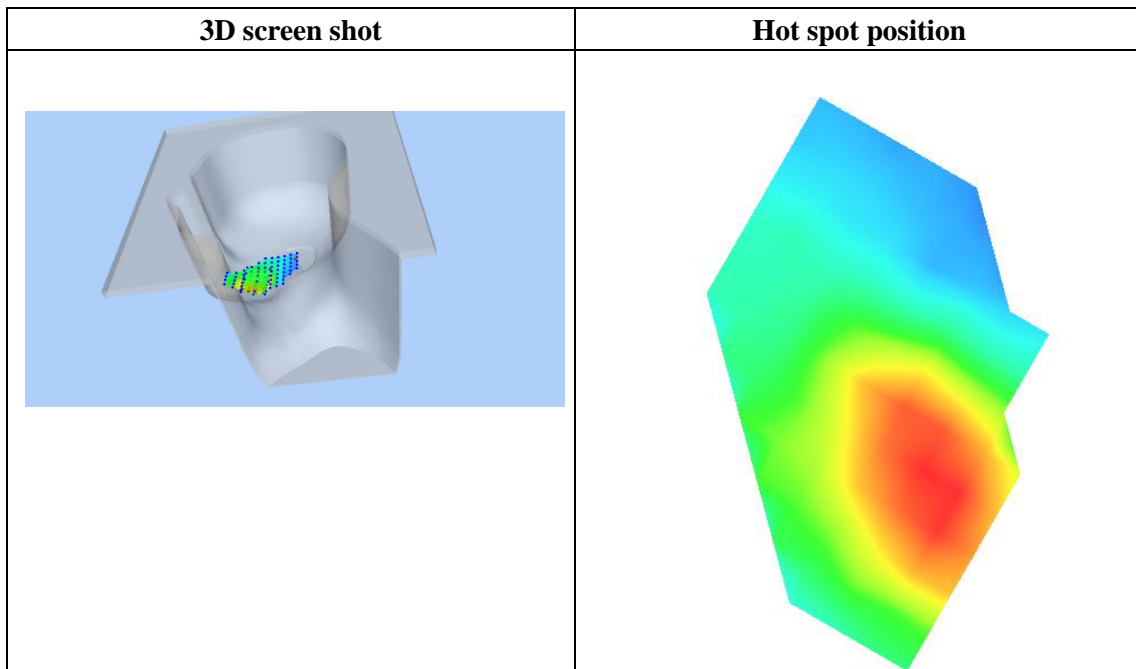
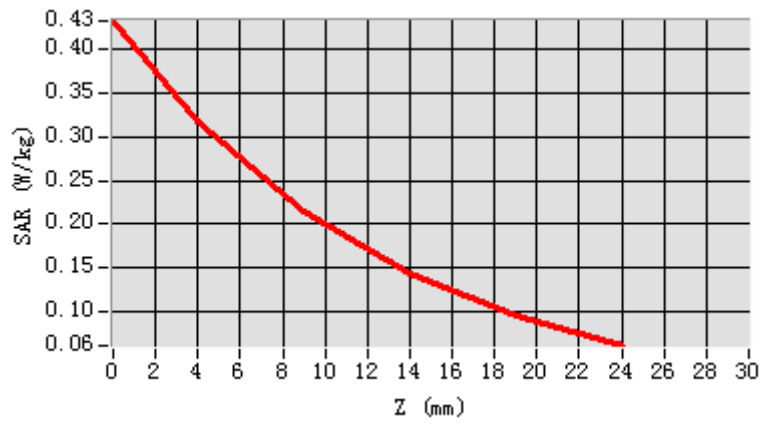


Maximum location: X=-59.00, Y=-60.00

SAR Peak: 0.49 W/kg

SAR 10g (W/Kg)	0.199352
SAR 1g (W/Kg)	0.311658

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4330	0.3191	0.2149	0.1437	0.0954



Plot 4: GPRS1900, Back, Middle ,10mm

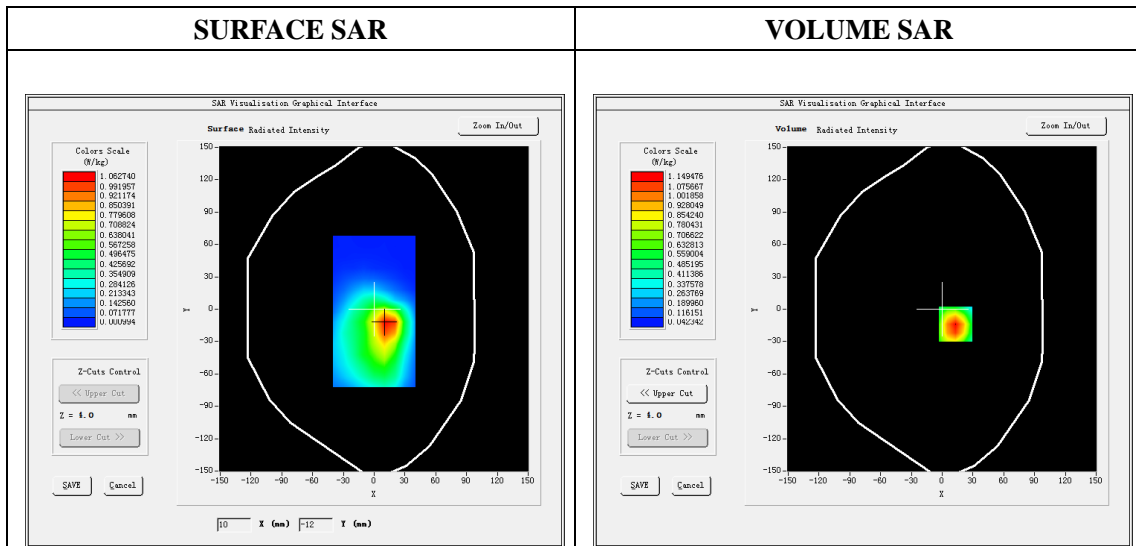
Type: Phone measurement
 Date of measurement: 03/27/2020
 Measurement duration: 22 minutes 03 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	1880
Relative permittivity (real part)	53.18
Relative permittivity (imaginary part)	14.21
Conductivity (S/m)	1.50
Variation (%)	0.94
ConvF:	2.08

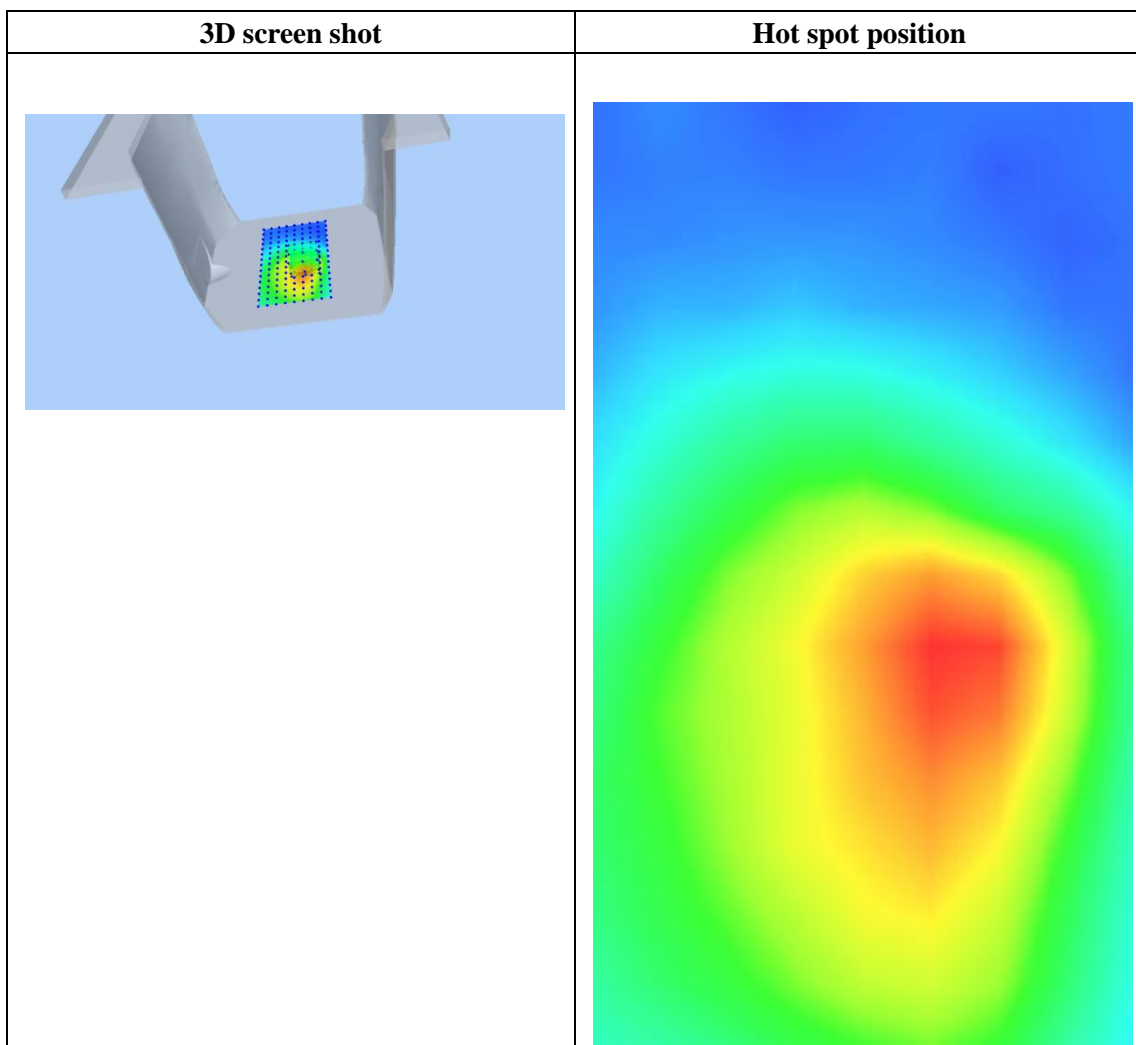
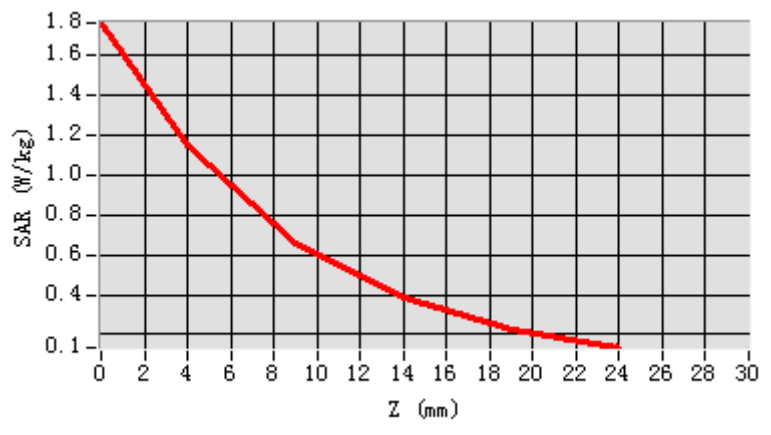


Maximum location: X=13.00, Y=-14.00

SAR Peak: 1.77 W/kg

SAR 10g (W/Kg)	0.602685
SAR 1g (W/Kg)	1.082903

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.7604	1.1495	0.6601	0.3814	0.2287



Plot 5: WCDMA1900, Right Cheek, Middle

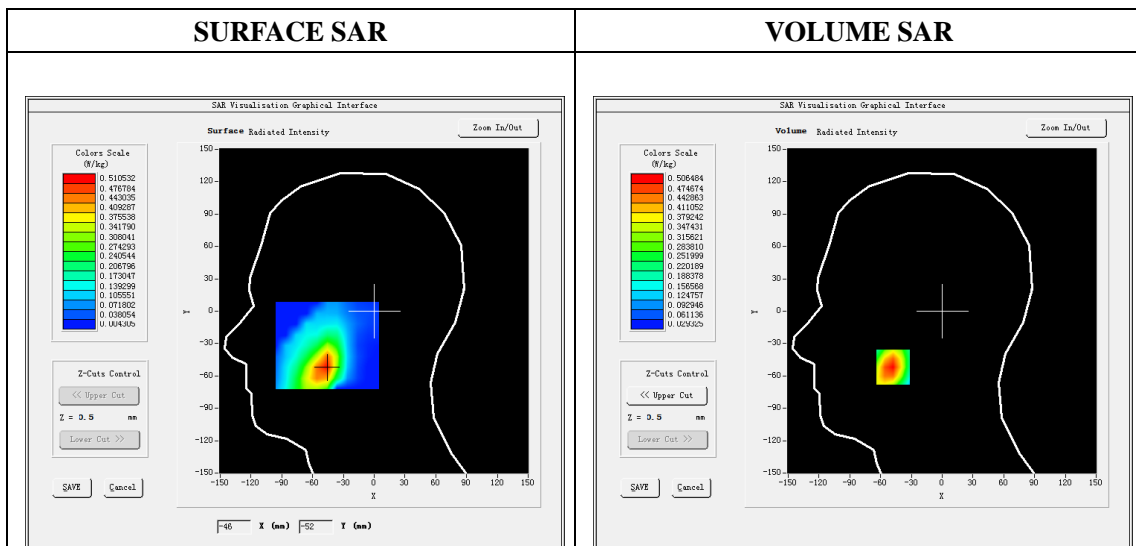
Type: Phone measurement
 Date of measurement: 03/27/2020
 Measurement duration: 22 minutes 04 seconds
 Mobile Phone IMEI number: --

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	Band2_WCDMA1900
Channels	9400
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	1880
Relative permittivity (real part)	40.53
Relative permittivity (imaginary)	13.36
Conductivity (S/m)	1.41
Variation (%)	-3.73
ConvF:	2.03

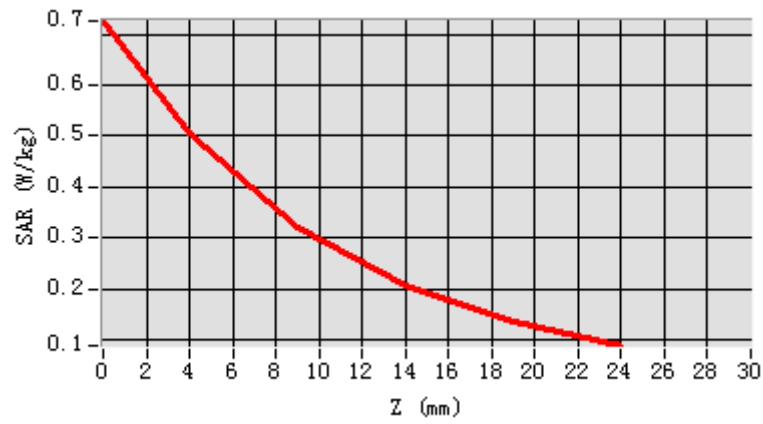


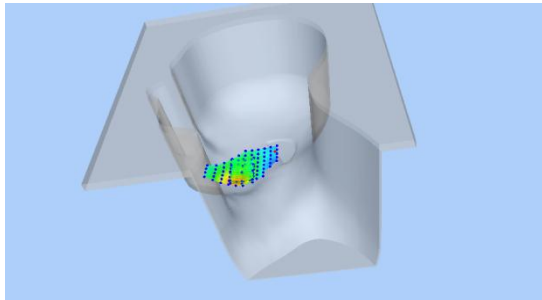
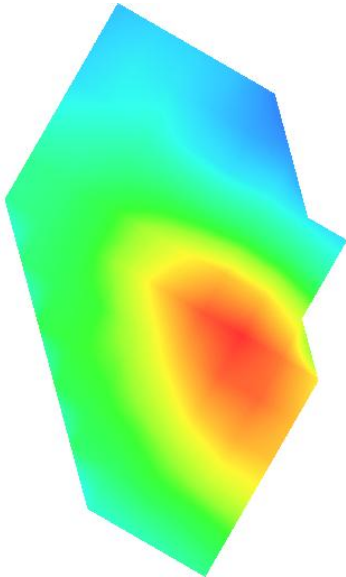
Maximum location: X=-48.00, Y=-52.00

SAR Peak: 0.73W/kg

SAR 10g (W/Kg)	0.285911
SAR 1g (W/Kg)	0.479388

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.7255	0.5065	0.3206	0.2059	0.1366



3D screen shot	Hot spot position
	

Plot 6: WCDMA1900, Back, Middle,10mm

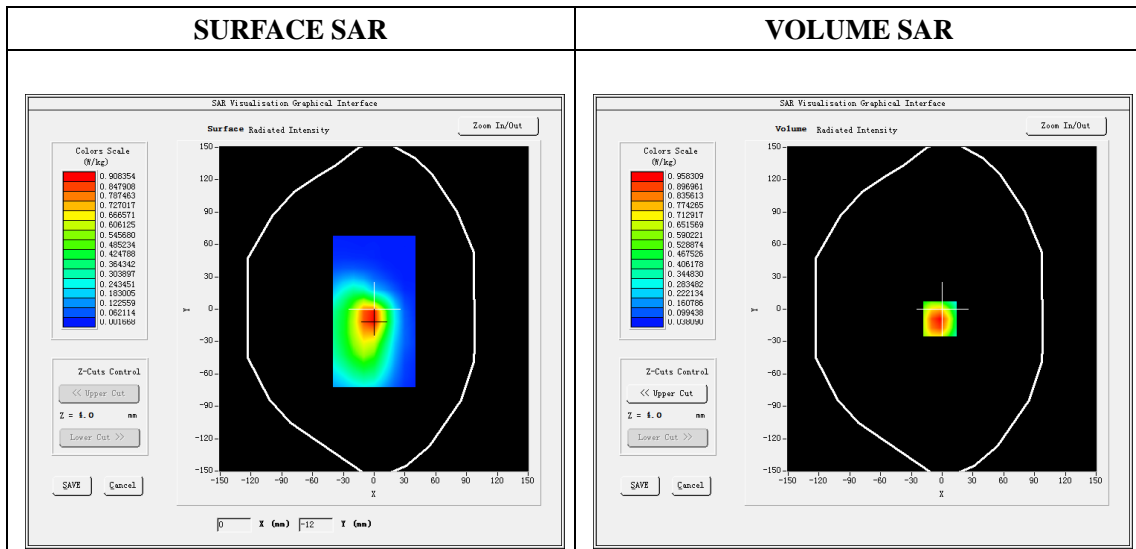
Type: Phone measurement
 Date of measurement: 03/27/2020
 Measurement duration: 22 minutes 06 seconds
 Mobile Phone IMEI number: --

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_41/18_EPG0330
Frequency (MHz)	1880
Relative permittivity (real part)	53.18
Relative permittivity (imaginary)	14.21
Conductivity (S/m)	1.50
Variation (%)	-0.16
ConvF:	2.08

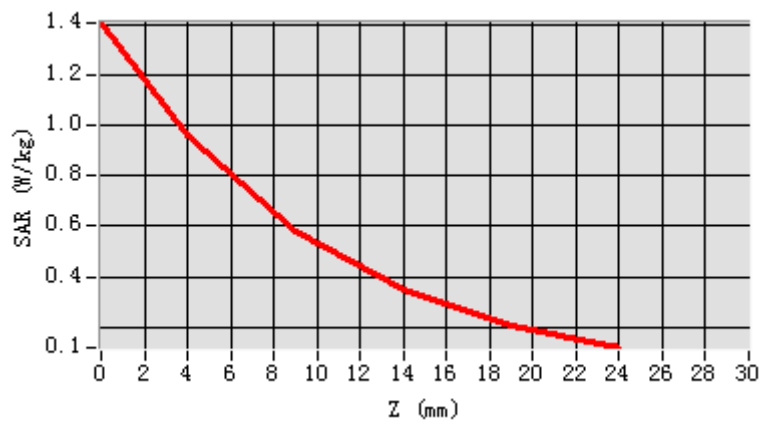


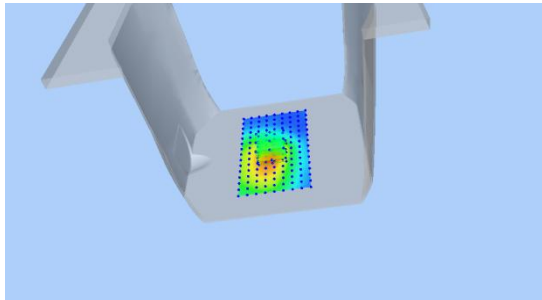
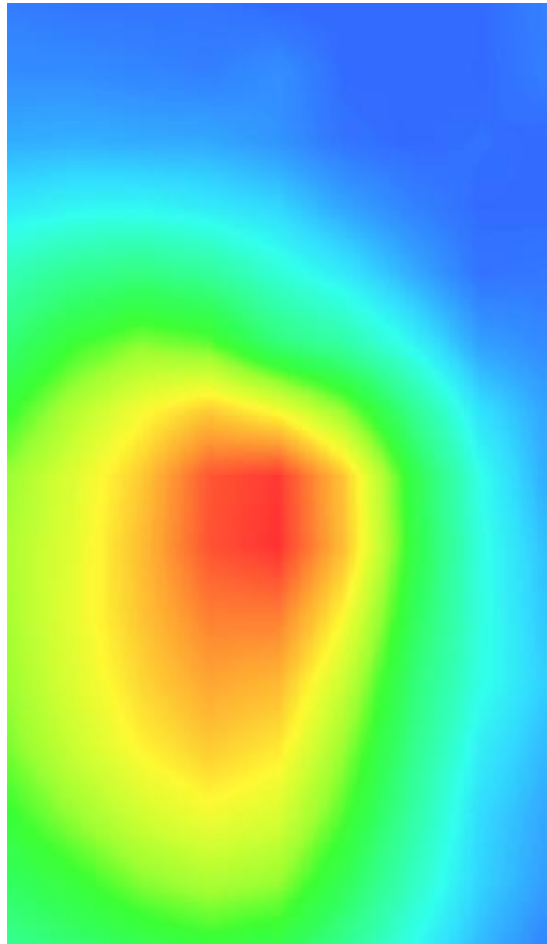
Maximum location: X=-2.00, Y=-9.00

SAR Peak: 1.42W/kg

SAR 10g (W/Kg)	0.521080
SAR 1g (W/Kg)	0.908405

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.4075	0.9583	0.5795	0.3471	0.2080



3D screen shot	Hot spot position
	

Plot 7: WCDMA1700, Right Cheek, Middle

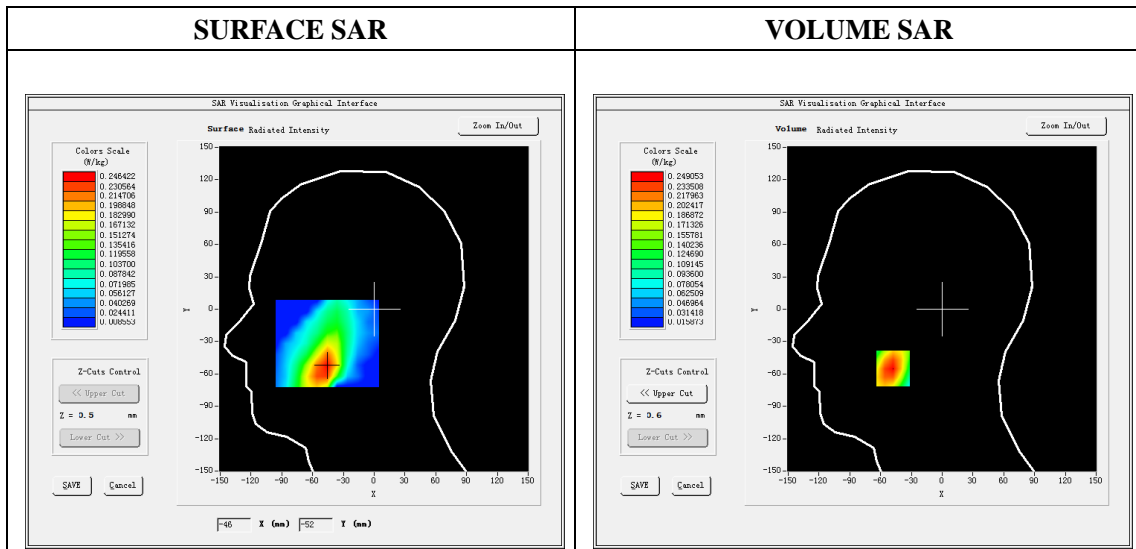
Type: Phone measurement
 Date of measurement: 03/26/2019
 Measurement duration: 22 minutes 08 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right 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)	40.62
Relative permittivity (imaginary)	13.90
Conductivity (S/m)	1.39
Variation (%)	-0.10
ConvF:	2.14

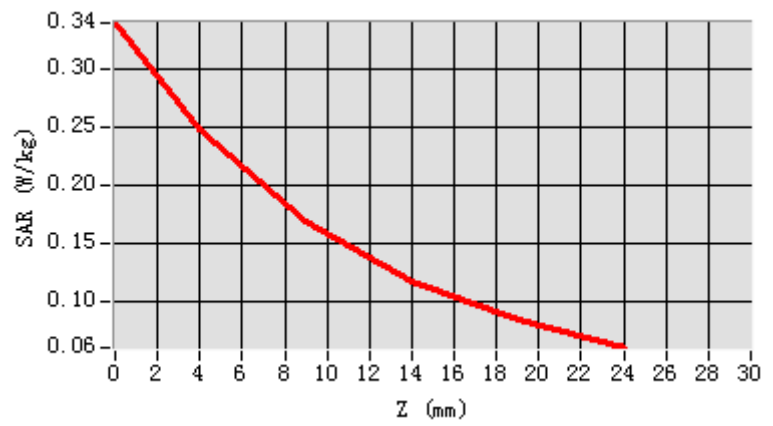


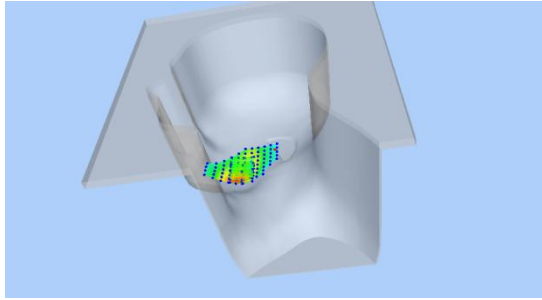
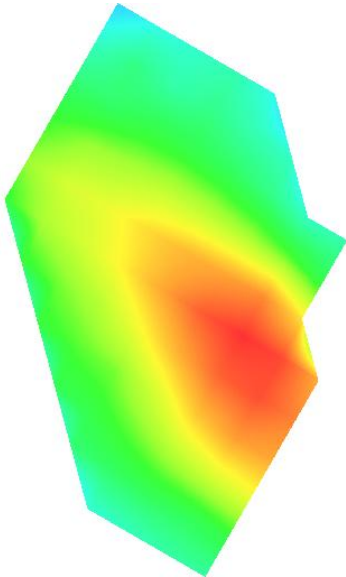
Maximum location: X=-48.00, Y=-55.00

SAR Peak: 0.34W/kg

SAR 10g (W/Kg)	0.153905
SAR 1g (W/Kg)	0.242199

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.3405	0.2491	0.1686	0.1166	0.0834



3D screen shot	Hot spot position
	

Plot 8: WCDMA1700, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 03/26/2020

Measurement duration: 22 minutes 07 seconds

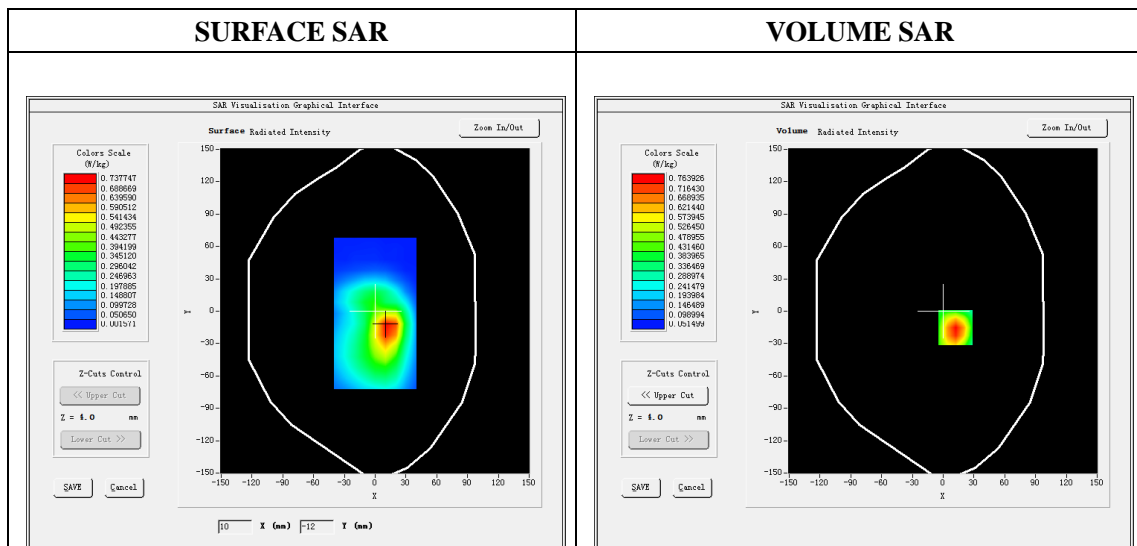
Mobile Phone IMEI number: --

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_27/15_EPG0261
Frequency (MHz)	1732.6
Relative permittivity (real part)	53.27
Relative permittivity (imaginary)	15.10
Conductivity (S/m)	1.51
Variation (%)	-3.90
ConvF:	2.22

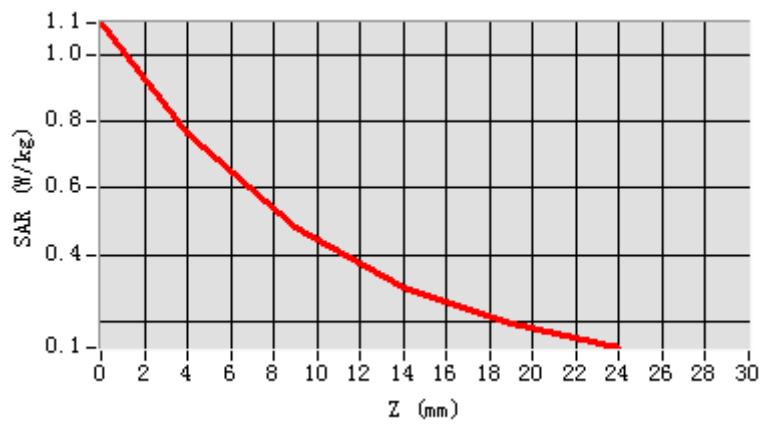


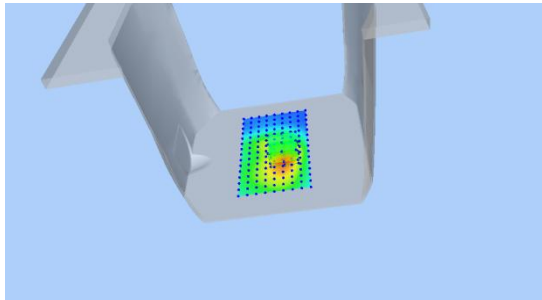
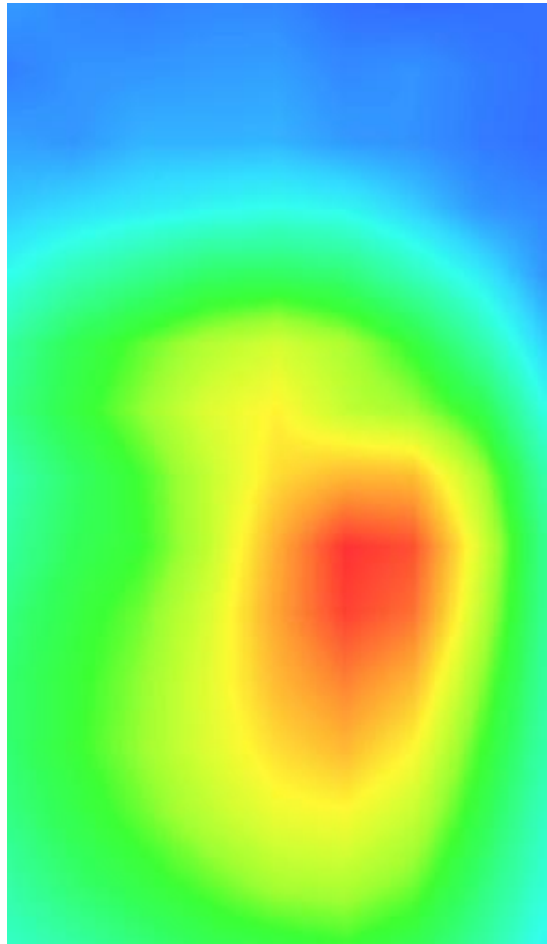
Maximum location: X=12.00, Y=-15.00

SAR Peak: 1.10W/kg

SAR 10g (W/Kg)	0.432933
SAR 1g (W/Kg)	0.735857

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.0939	0.7639	0.4811	0.3038	0.1946



3D screen shot	Hot spot position
	

Plot 9: WCDMA850, Right Cheek, Middle

Type: Phone measurement

Date of measurement: 03/25/2020

Measurement duration: 22 minutes 09 seconds

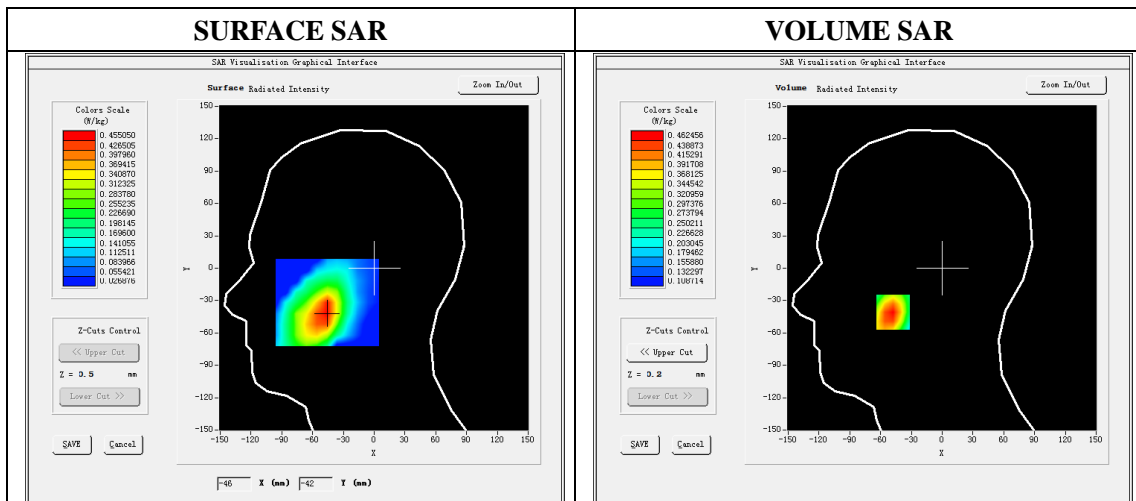
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Cheek
Band	Band5_WCDMA850
Channels	4183
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

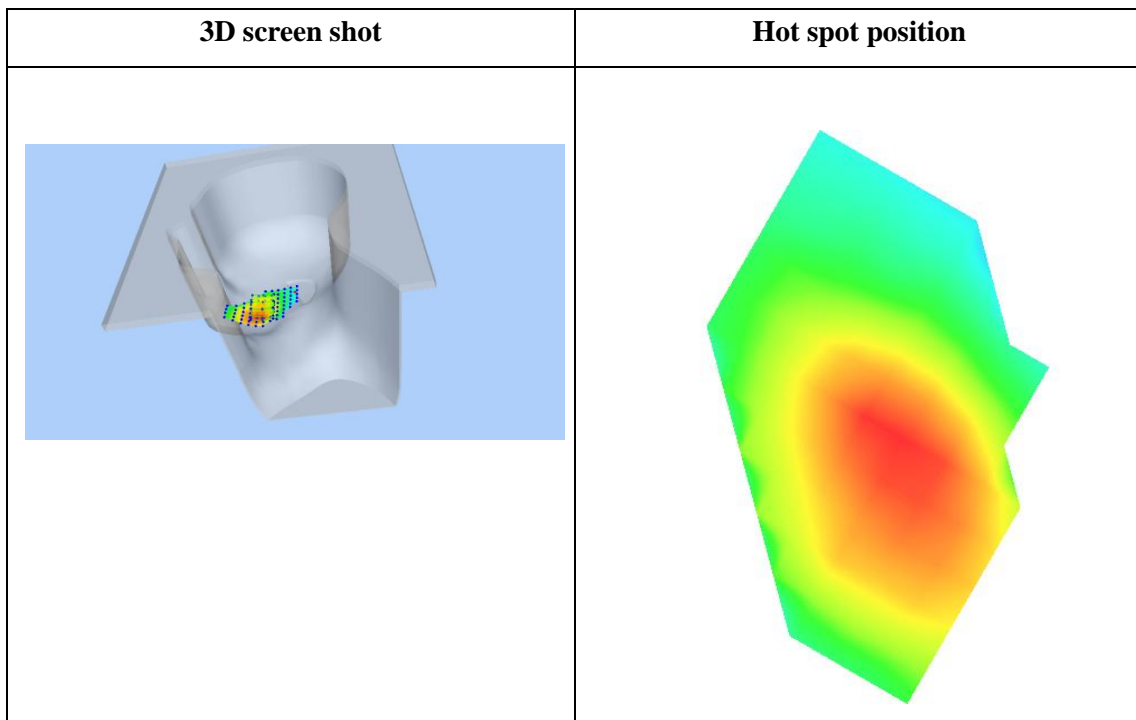
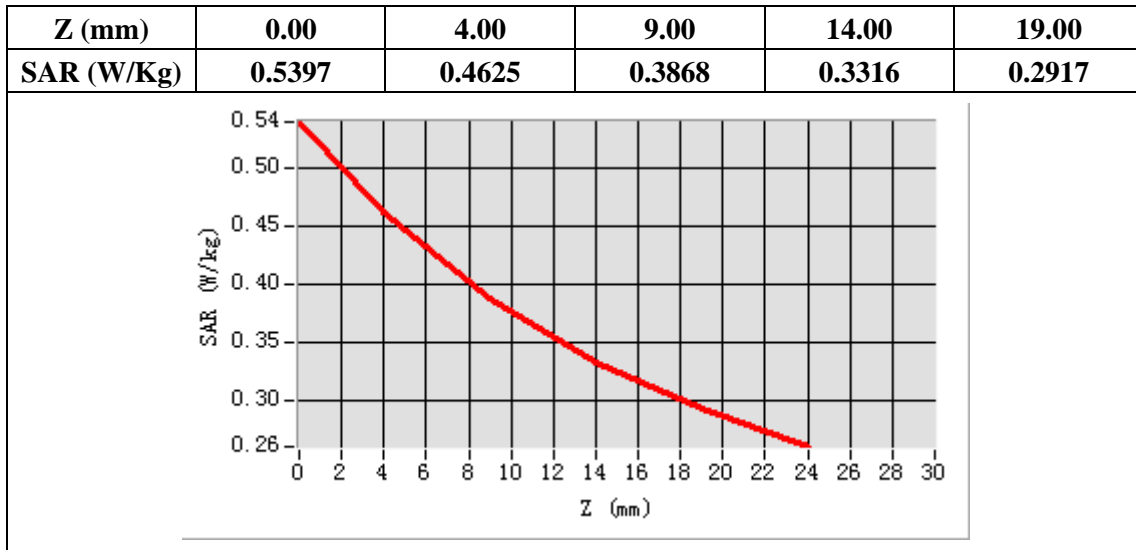
E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	836.6
Relative permittivity (real part)	41.59
Relative permittivity (imaginary)	18.85
Conductivity (S/m)	0.89
Variation (%)	-4.62
ConvF:	1.60



Maximum location: X=-48.00, Y=-41.00

SAR Peak: 0.55W/kg

SAR 10g (W/Kg)	0.349636
SAR 1g (W/Kg)	0.448014



Plot 10: WCDMA850, Back, Middle,10mm

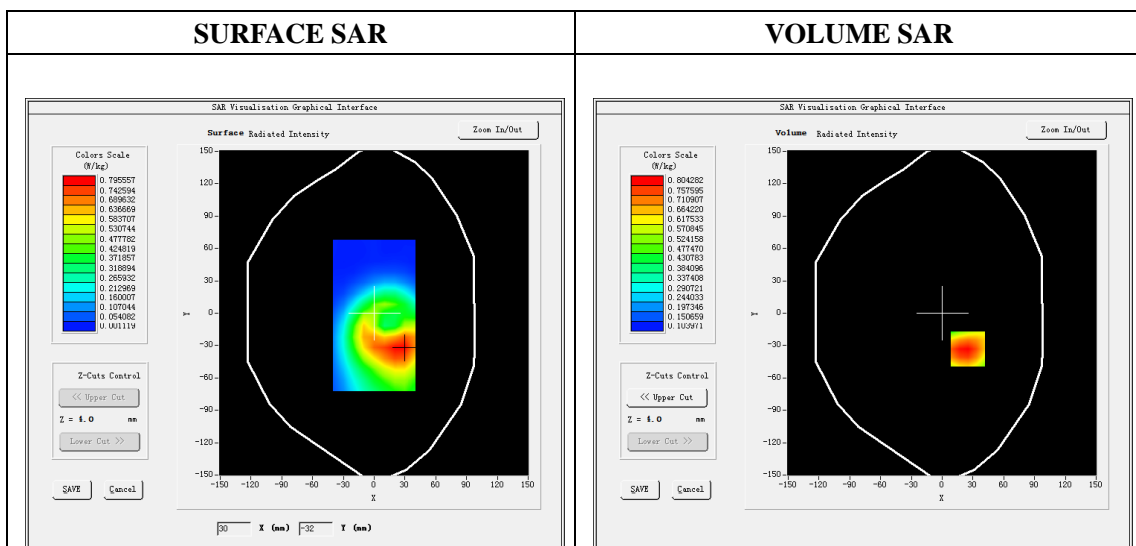
Type: Phone measurement
 Date of measurement: 03/25/2020
 Measurement duration: 22 minutes 14 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	Band5_WCDMA850
Channels	4183
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	836.6
Relative permittivity (real part)	55.19
Relative permittivity (imaginary)	21.34
Conductivity (S/m)	0.99
Variation (%)	-1.19
ConvF:	1.64

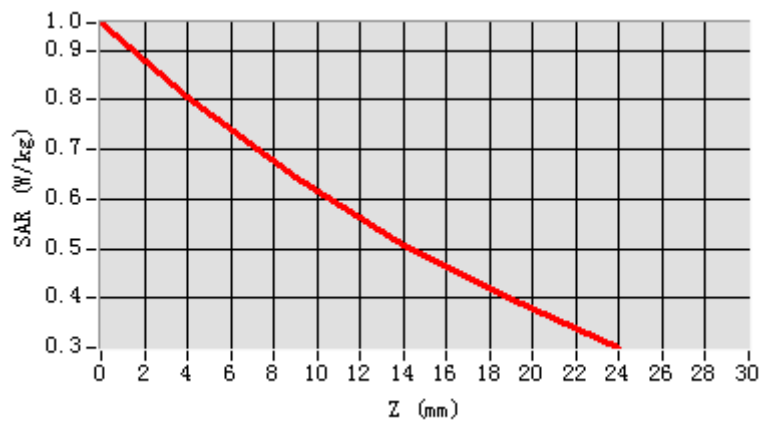


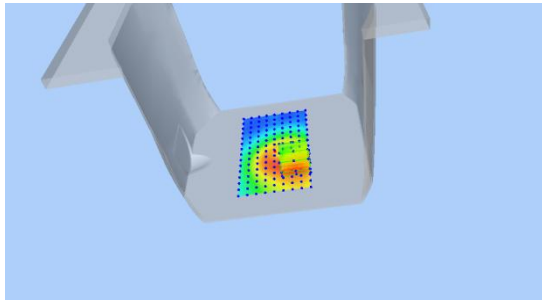
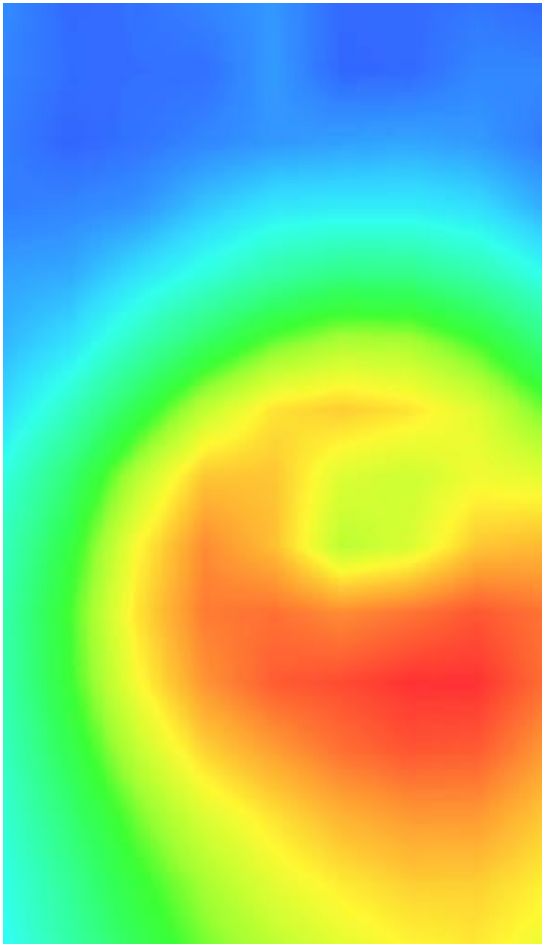
Maximum location: X=25.00, Y=-33.00

SAR Peak: 0.97W/kg

SAR 10g (W/Kg)	0.587707
SAR 1g (W/Kg)	0.779673

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.9557	0.8043	0.6422	0.5073	0.3949



3D screen shot	Hot spot position
	

Plot 11: LTE Band2, 20MHz, Right Cheek, Middle

Type: Phone measurement

Date of measurement: 03/27/2020

Measurement duration: 22 minutes 10 seconds

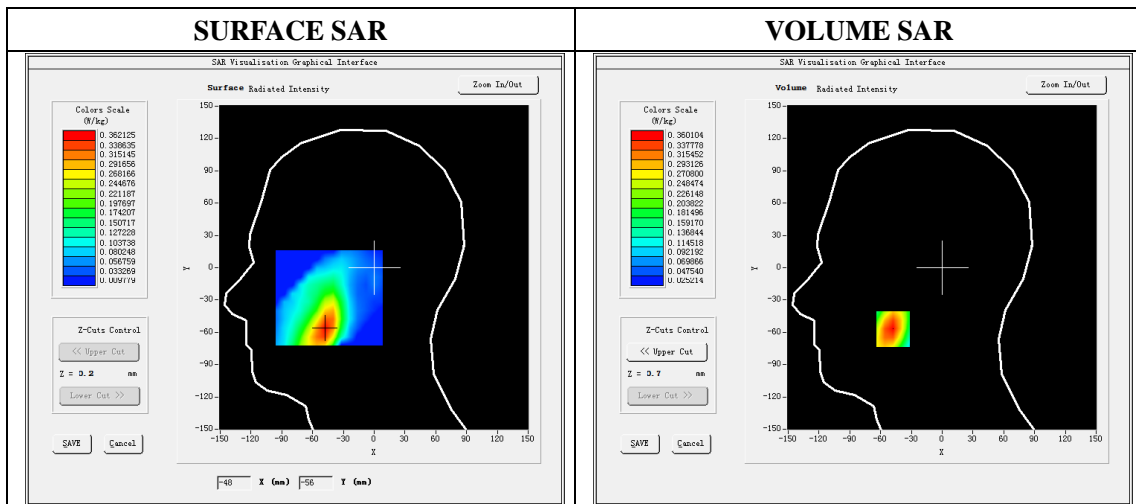
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	1880
Relative permittivity (real part)	40.53
Relative permittivity (imaginary)	13.36
Conductivity (S/m)	1.41
Variation (%)	-4.37
ConvF:	2.03

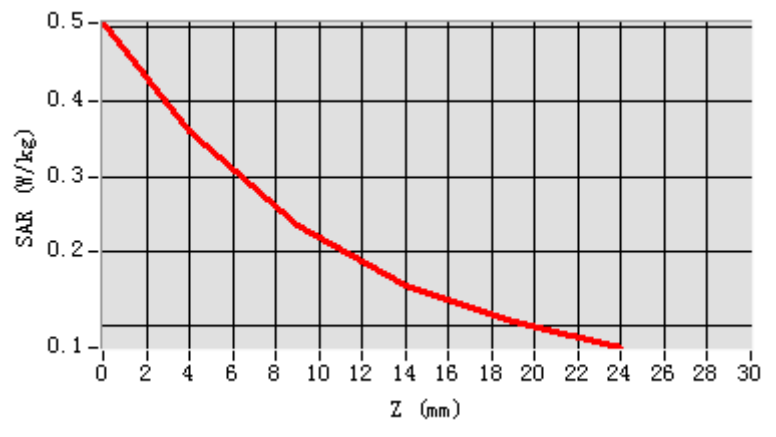


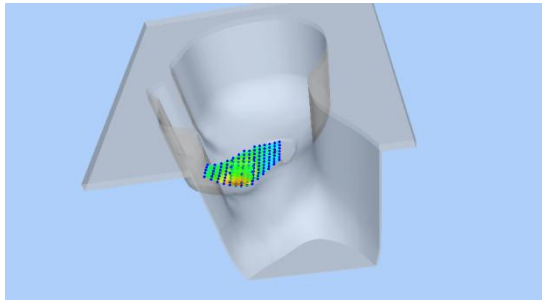
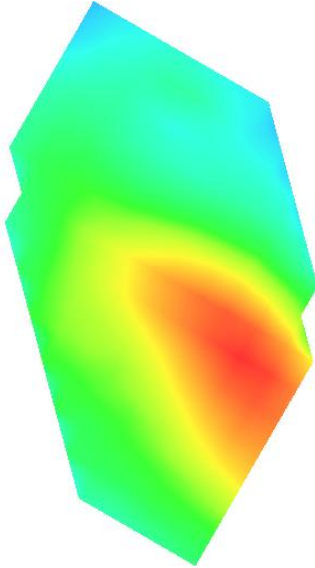
Maximum location: X=-48.00, Y=-57.00

SAR Peak: 0.51 W/kg

SAR 10g (W/Kg)	0.210855
SAR 1g (W/Kg)	0.341786

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5046	0.3601	0.2350	0.1557	0.1062



3D screen shot	Hot spot position
	

Plot 12: LTE Band2, 20MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 03/27/2020

Measurement duration: 22 minutes 13 seconds

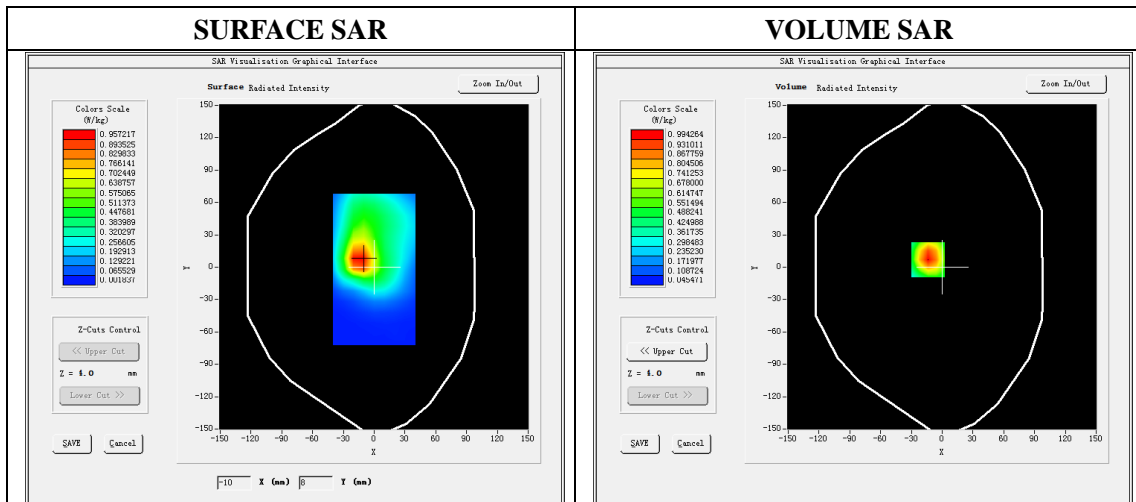
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

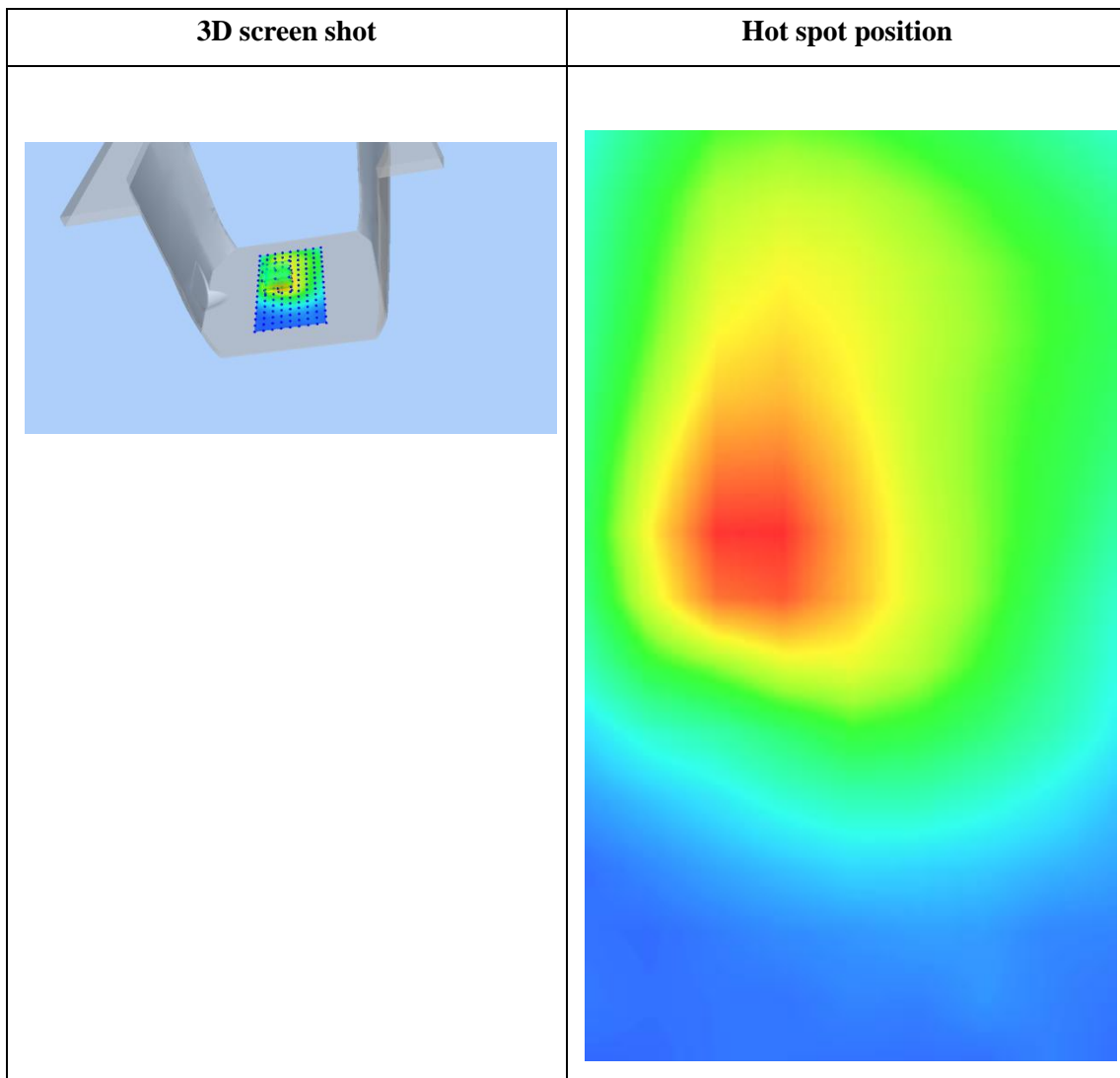
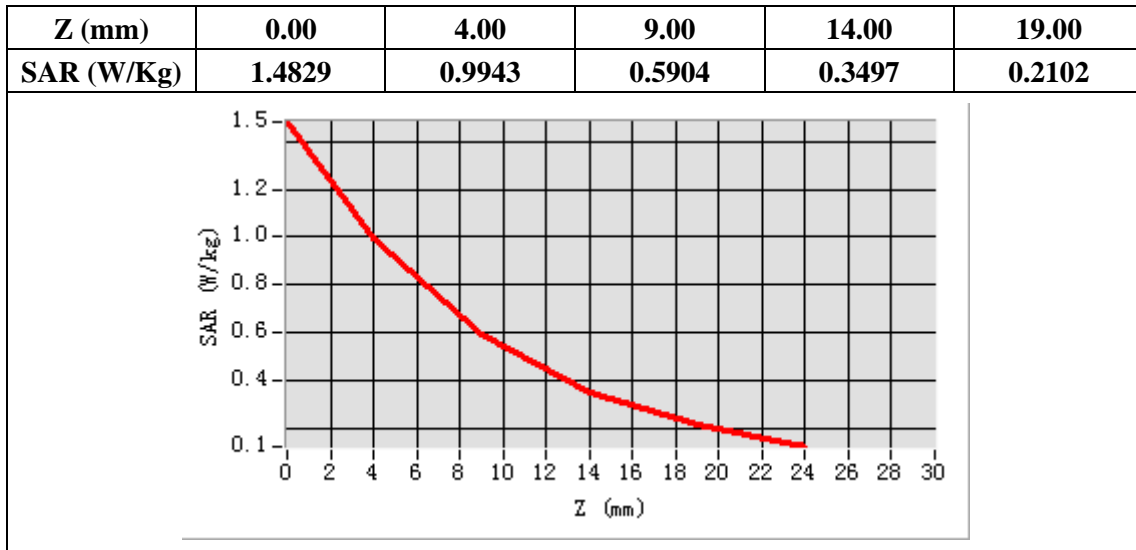
E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	1880
Relative permittivity (real part)	53.18
Relative permittivity (imaginary)	14.21
Conductivity (S/m)	1.50
Variation (%)	-1.74
ConvF:	2.08



Maximum location: X=-14.00, Y=7.00

SAR Peak: 1.49W/kg

SAR 10g (W/Kg)	0.526177
SAR 1g (W/Kg)	0.932427



Plot 13: LTE Band4, 20MHz, Right Cheek, Middle

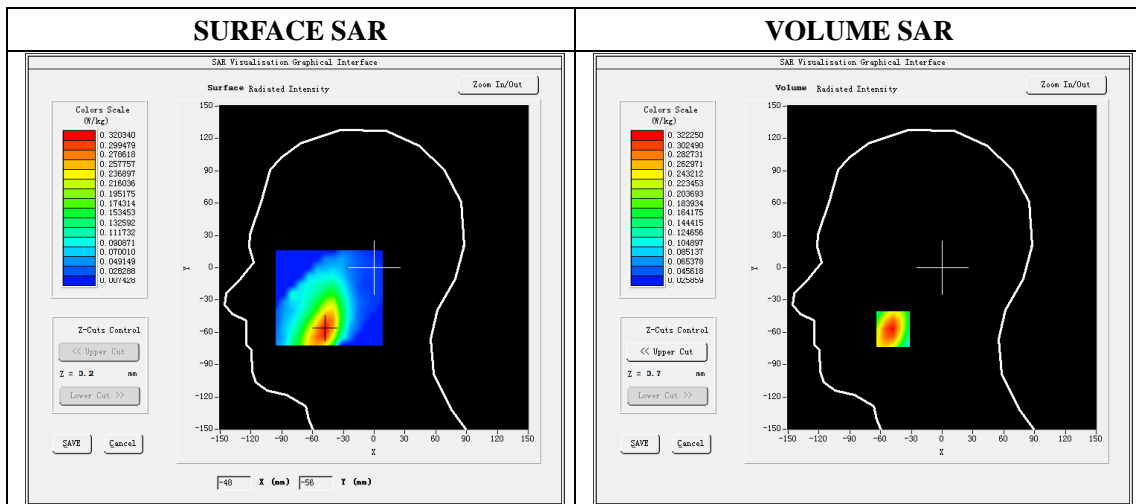
Type: Phone measurement
 Date of measurement: 03/26/2020
 Measurement duration: 22 minutes 12 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	1732.5
Relative permittivity (real part)	40.62
Relative permittivity (imaginary)	13.90
Conductivity (S/m)	1.39
Variation (%)	4.61
ConvF:	1.74

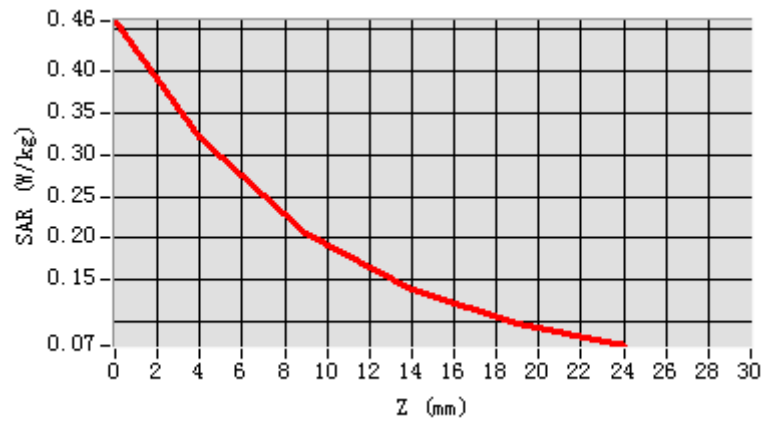


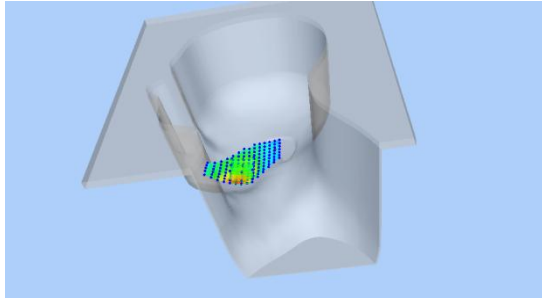
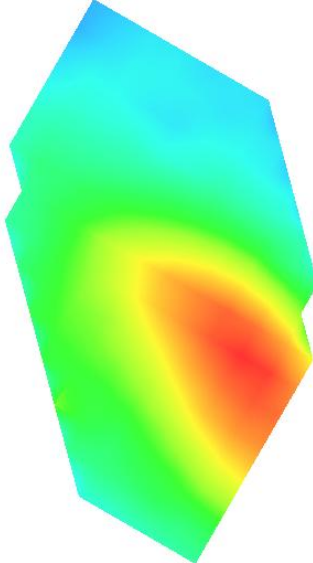
Maximum location: X=-48.00, Y=-57.00

SAR Peak: 0.46 W/kg

SAR 10g (W/Kg)	0.191444
SAR 1g (W/Kg)	0.312003

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4608	0.3222	0.2068	0.1378	0.0979



3D screen shot	Hot spot position
	

Plot 14: LTE Band4, 20MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 03/26/2020

Measurement duration: 22 minutes 11 seconds

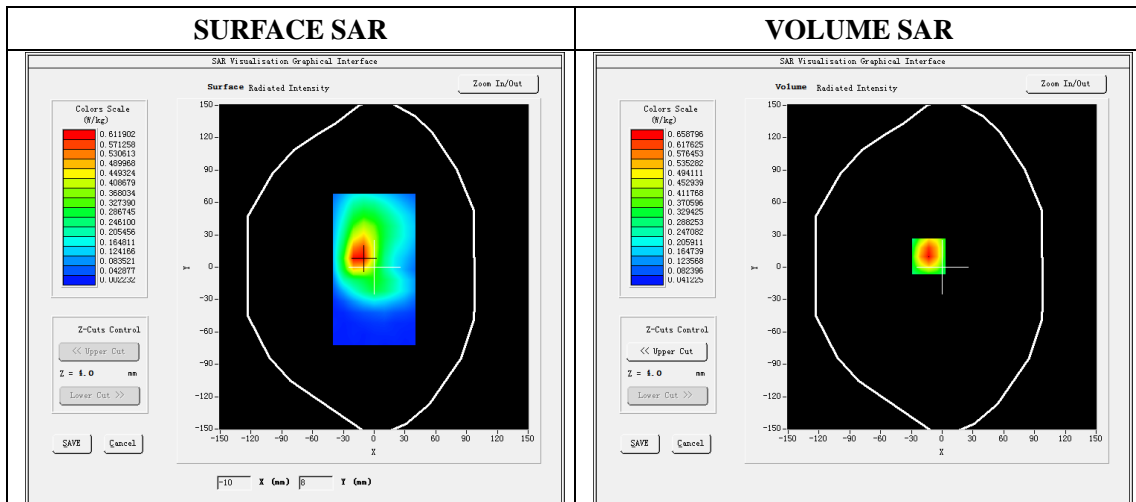
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

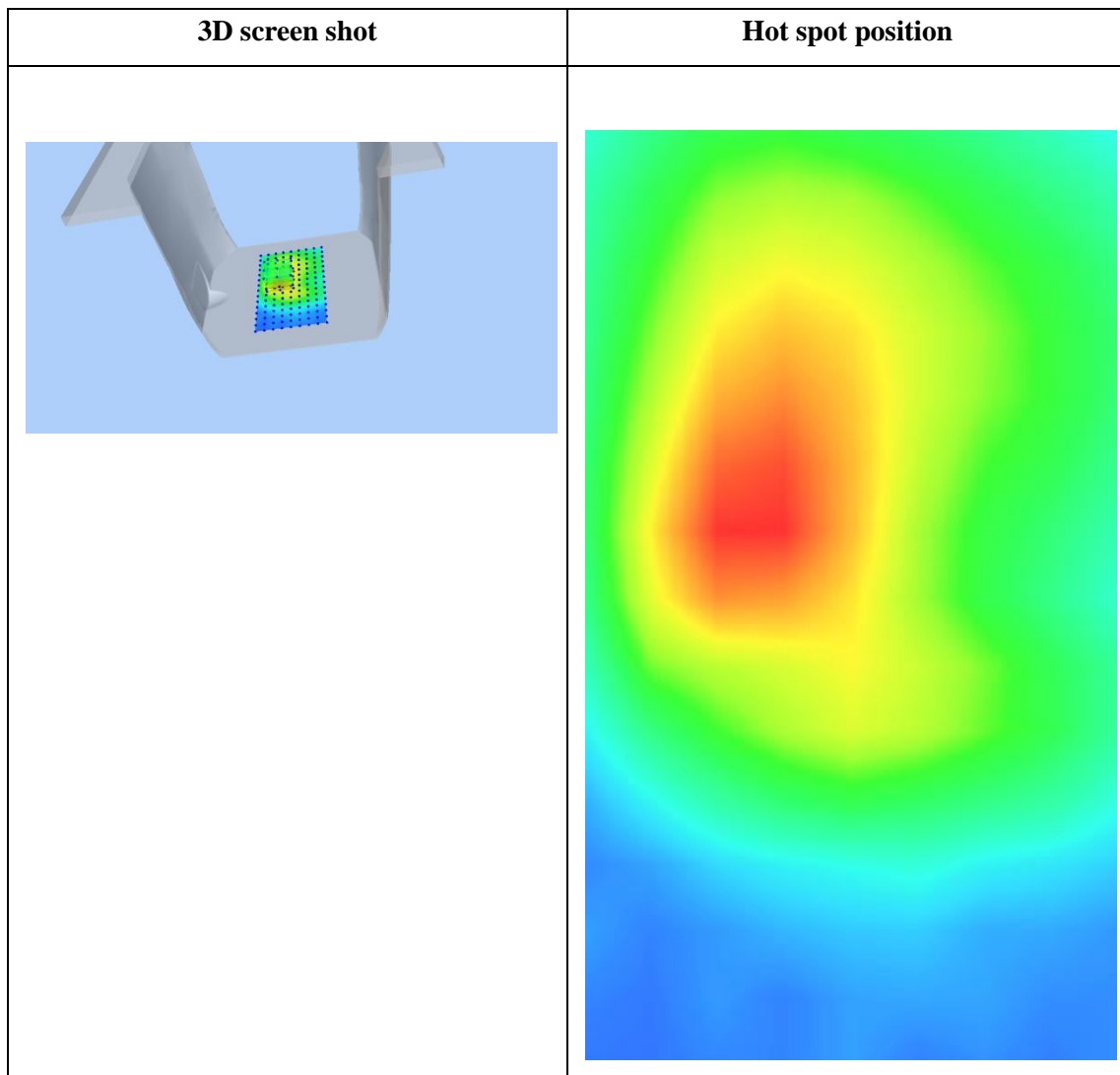
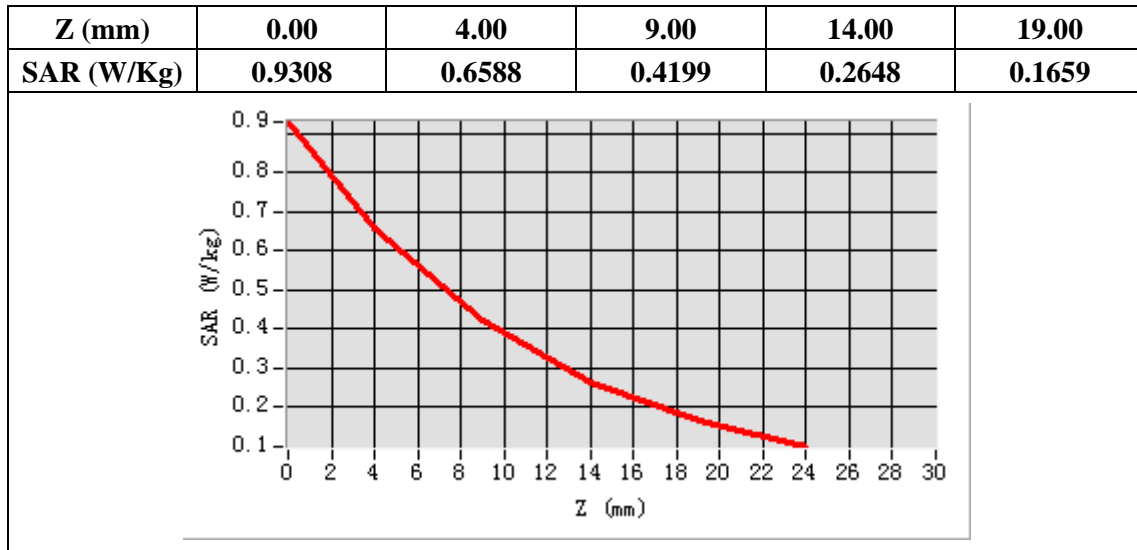
E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	1732.5
Relative permittivity (real part)	53.27
Relative permittivity (imaginary)	15.10
Conductivity (S/m)	1.51
Variation (%)	-0.93
ConvF:	1.81



Maximum location: X=-13.00, Y=10.00

SAR Peak: 0.94W/kg

SAR 10g (W/Kg)	0.365106
SAR 1g (W/Kg)	0.619313



Plot 15: LTE Band5, 10MHz,Right Cheek, Middle

Type: Phone measurement

Date of measurement: 03/25/2020

Measurement duration: 22 minutes 17 seconds

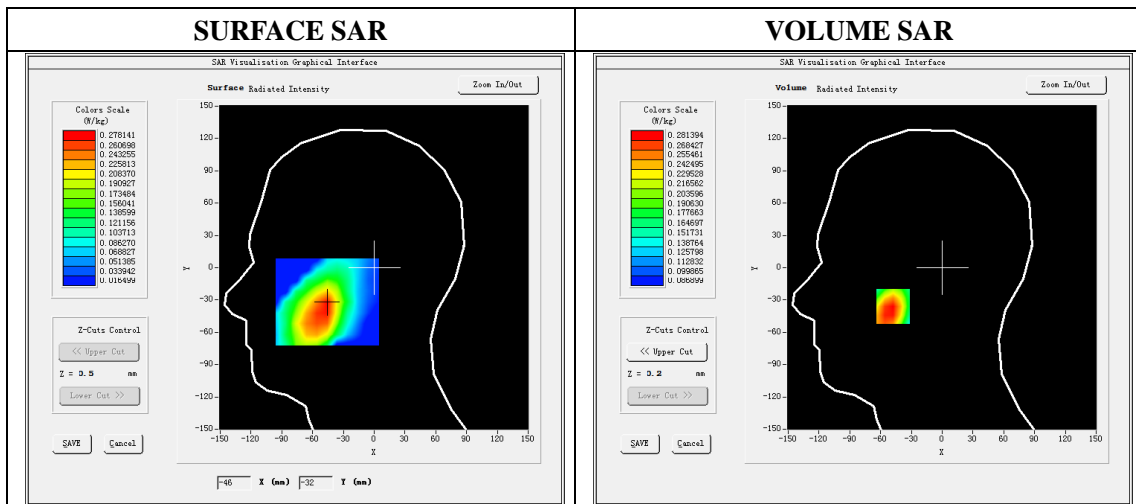
Mobile Phone IMEI number: --

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_41/18_EPG0330
Frequency (MHz)	836.5
Relative permittivity (real part)	41.59
Relative permittivity (imaginary)	18.85
Conductivity (S/m)	0.89
Variation (%)	0.97
ConvF:	1.60

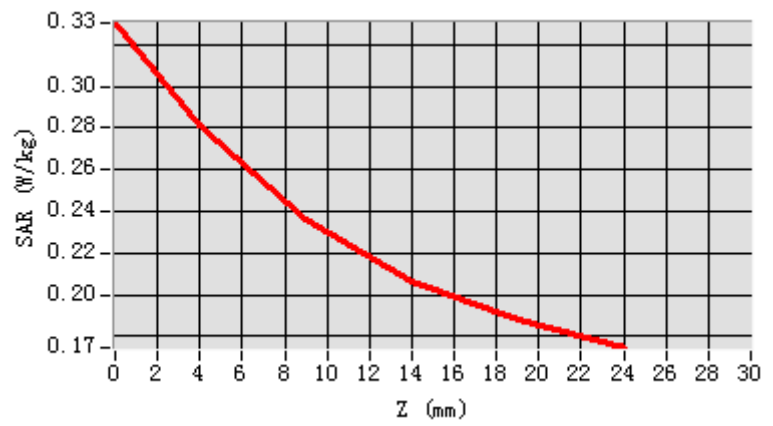


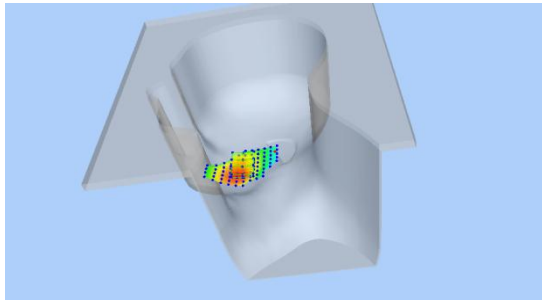
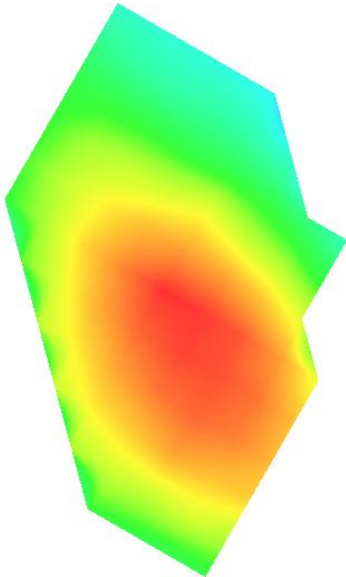
Maximum location: X=-48.00, Y=-36.00

SAR Peak: 0.33 W/kg

SAR 10g (W/Kg)	0.224007
SAR 1g (W/Kg)	0.276802

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.3304	0.2814	0.2359	0.2060	0.1876



3D screen shot	Hot spot position
	

Plot 16: LTE Band5, 10MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 03/25/2020

Measurement duration: 22 minutes 15 seconds

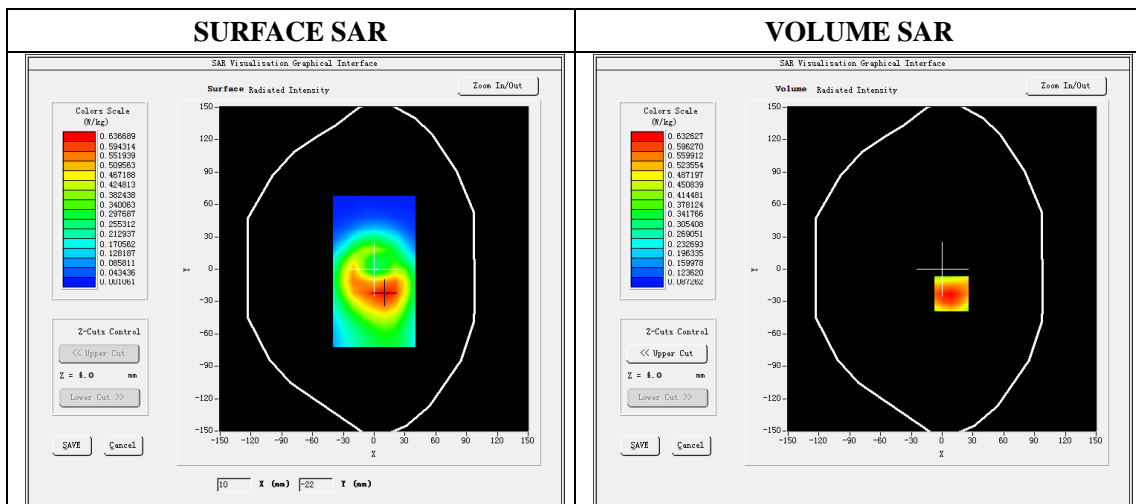
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	836.5
Relative permittivity (real part)	55.19
Relative permittivity (imaginary)	21.34
Conductivity (S/m)	0.99
Variation (%)	-1.38
ConvF:	1.64

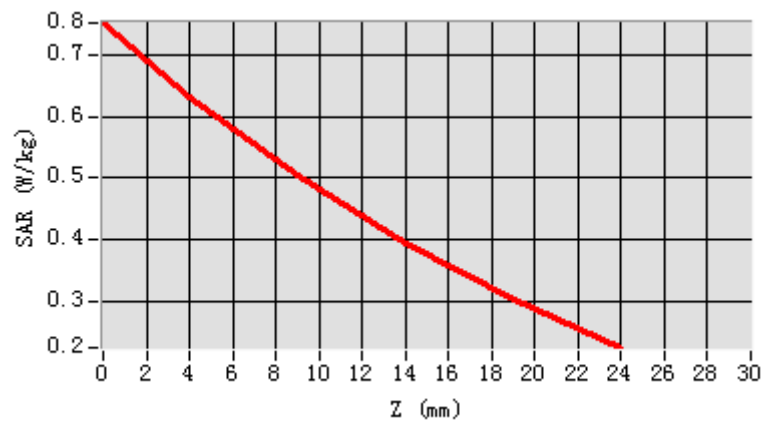


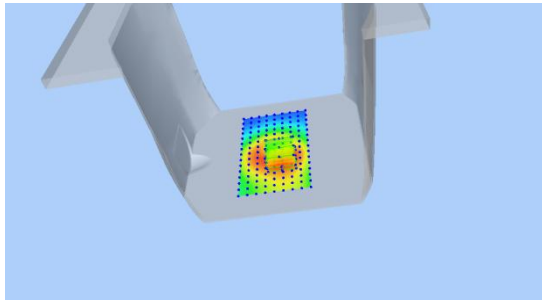
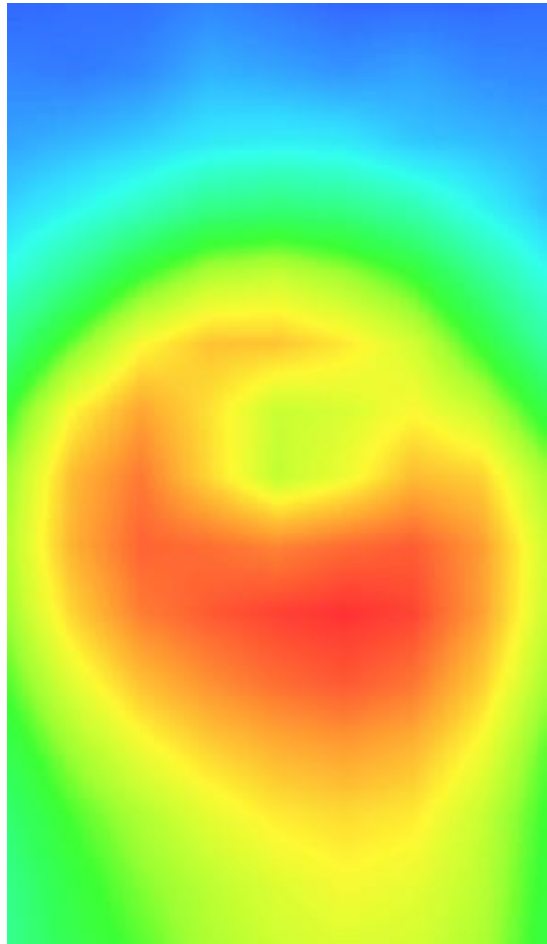
Maximum location: X=9.00, Y=-23.00

SAR Peak: 0.76W/kg

SAR 10g (W/Kg)	0.464839
SAR 1g (W/Kg)	0.623266

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.7523	0.6326	0.5031	0.3940	0.3023



3D screen shot	Hot spot position
	

Plot 17: LTE Band7, 20MHz, Right Cheek, Middle

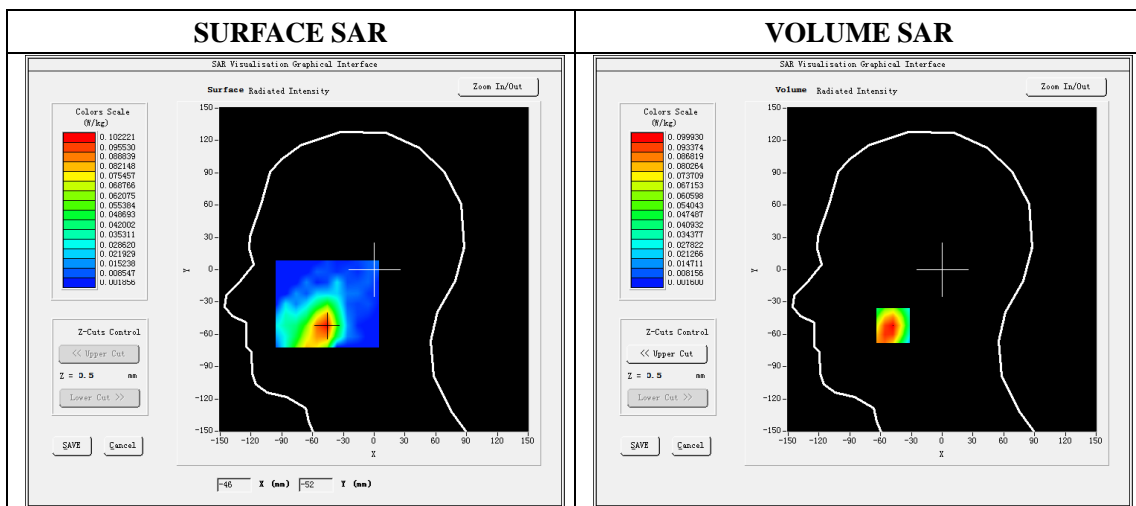
Type: Phone measurement
 Date of measurement: 03/30/2020
 Measurement duration: 22 minutes 16 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Right 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)	39.10
Relative permittivity (imaginary)	13.43
Conductivity (S/m)	1.94
Variation (%)	-3.02
ConvF:	2.35

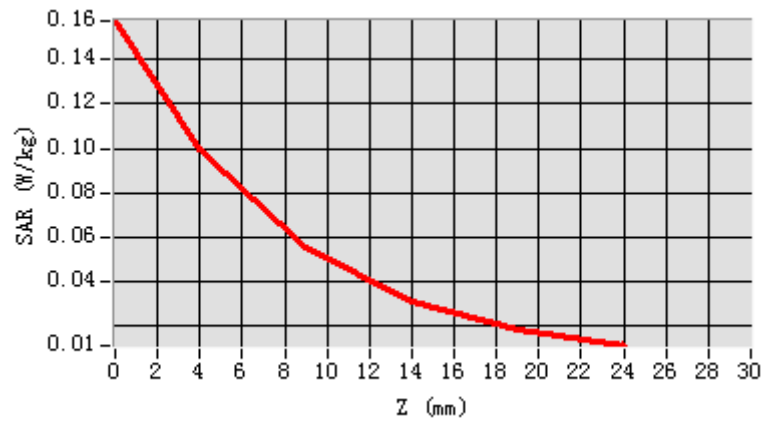


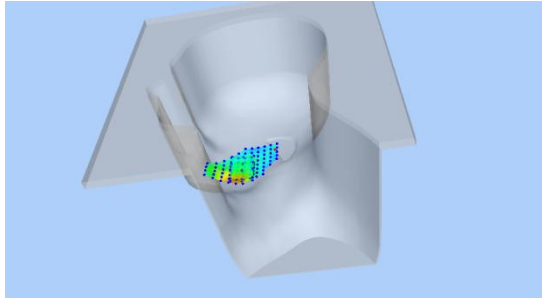
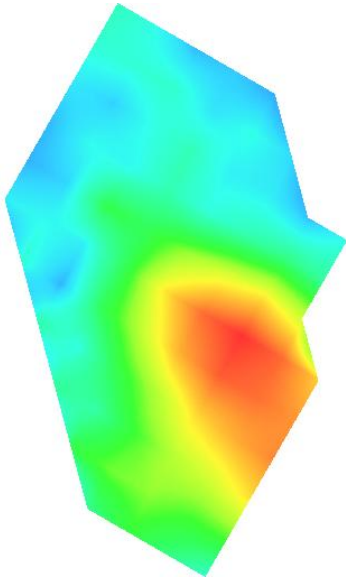
Maximum location: X=-48.00 Y=-52.00

SAR Peak: 0.16W/kg

SAR 10g (W/Kg)	0.052822
SAR 1g (W/Kg)	0.096932

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1574	0.0999	0.0554	0.0312	0.0187



3D screen shot	Hot spot position
	

Plot 18: LTE Band7, 20MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 03/30/2020

Measurement duration: 22 minutes 18 seconds

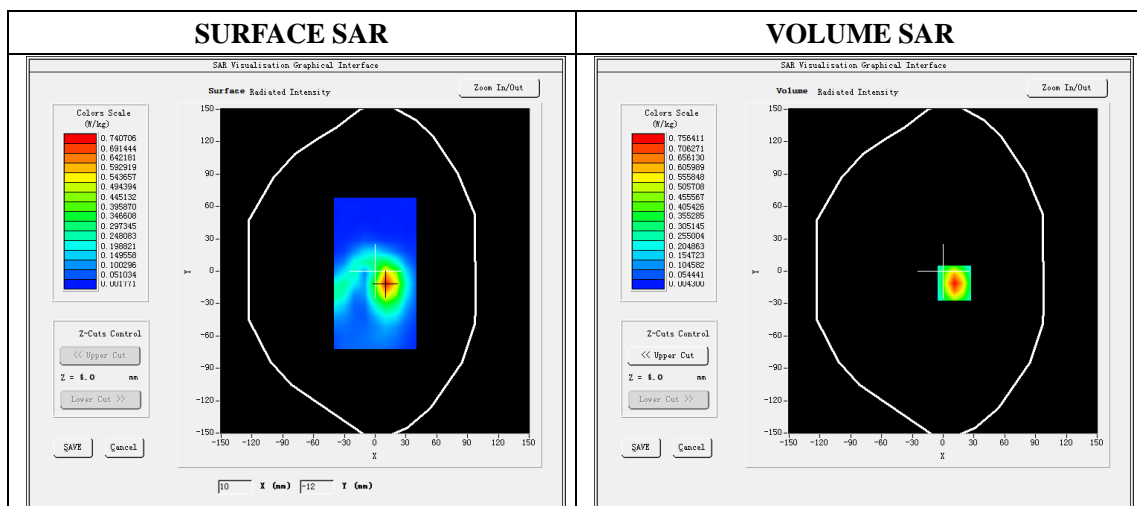
Mobile Phone IMEI number: --

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)	52.52
Relative permittivity (imaginary)	14.88
Conductivity (S/m)	2.15
Variation (%)	-1.50
ConvF:	2.43

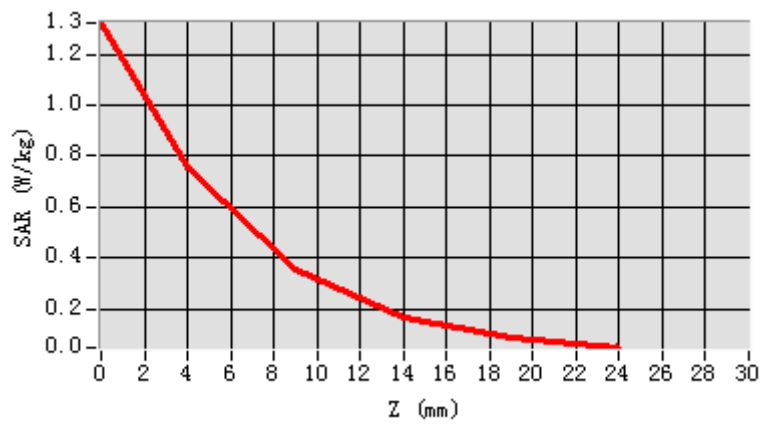


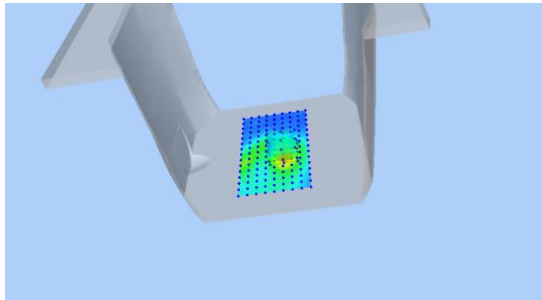
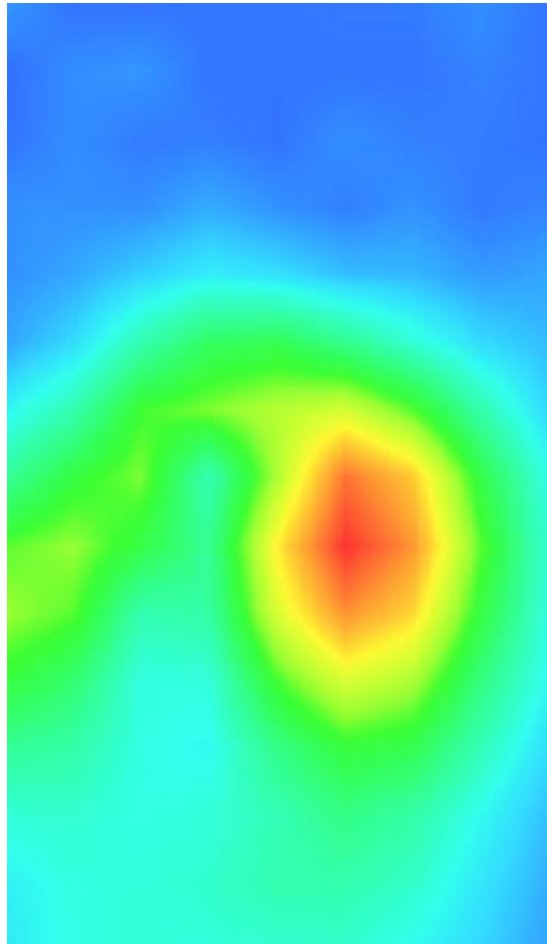
Maximum location: X=11.00 Y=-11.00

SAR Peak: 1.32 W/kg

SAR 10g (W/Kg)	0.333126
SAR 1g (W/Kg)	0.701509

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.3239	0.7564	0.3553	0.1670	0.0870



3D screen shot	Hot spot position
	

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

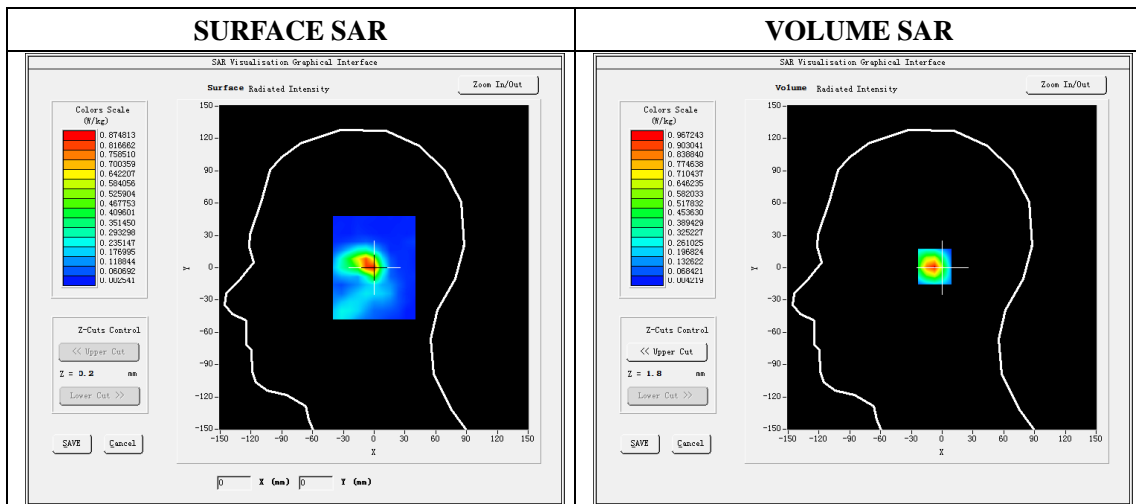
Type: Phone measurement
 Date of measurement: 03/30/2020
 Measurement duration: 22 minutes 19 seconds
 Mobile Phone IMEI number: --

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

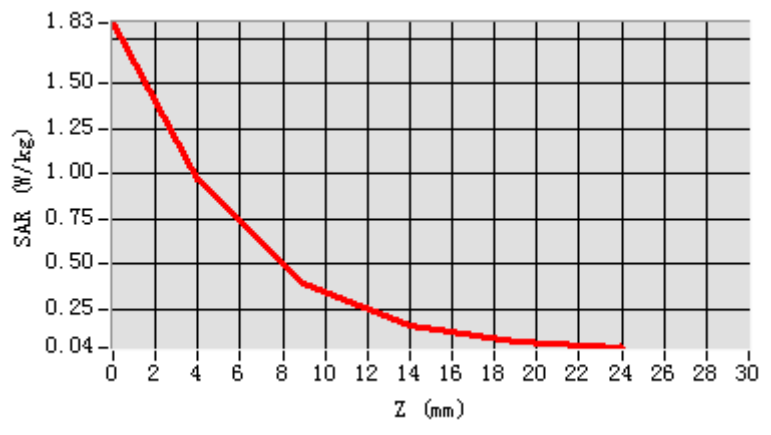
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2560
Relative permittivity (real part)	39.10
Relative permittivity (imaginary)	13.43
Conductivity (S/m)	1.94
Variation (%)	-0.86
ConvF:	2.35

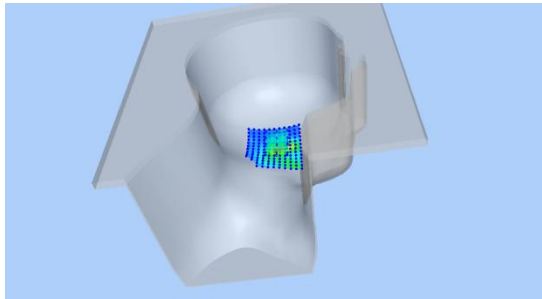
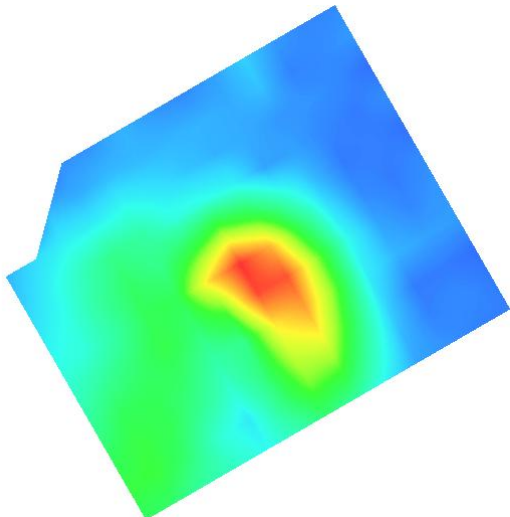


Maximum location: X=-3.00 Y=1.00
SAR Peak: 1.88W/kg

SAR 10g (W/Kg)	0.375332
SAR 1g (W/Kg)	0.902759

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.8336	0.9672	0.3963	0.1585	0.0737



3D screen shot	Hot spot position
	

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

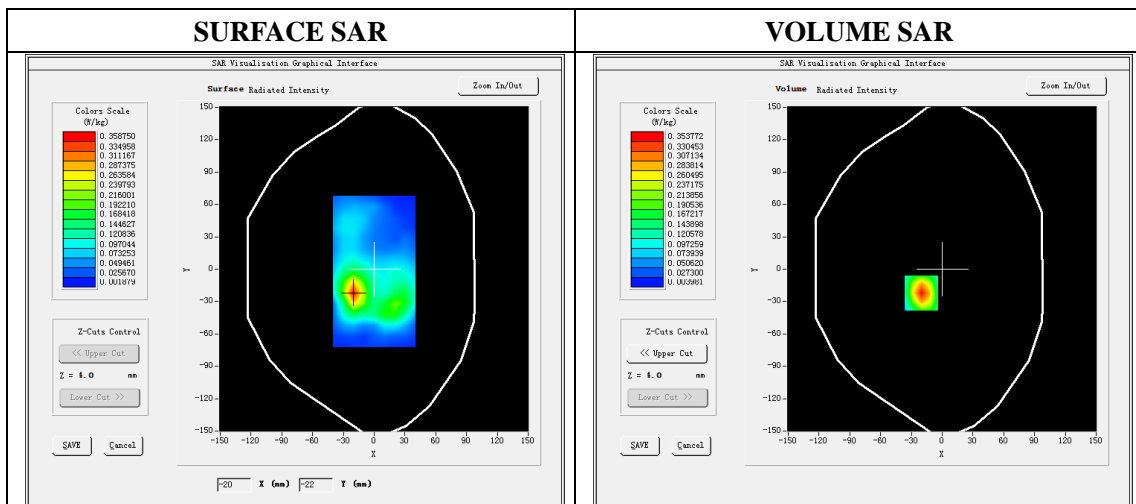
Type: Phone measurement
 Date of measurement: 03/30/2020
 Measurement duration: 22 minutes 25 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	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)	52.52
Relative permittivity (imaginary)	14.88
Conductivity (S/m)	2.15
Variation (%)	-1.42
ConvF:	2.43

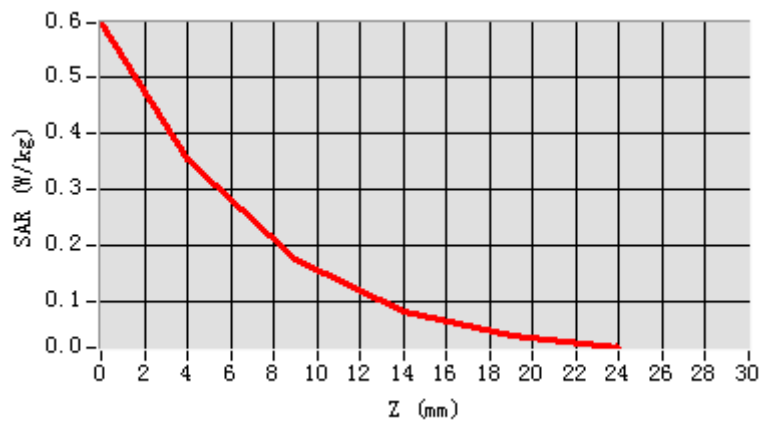


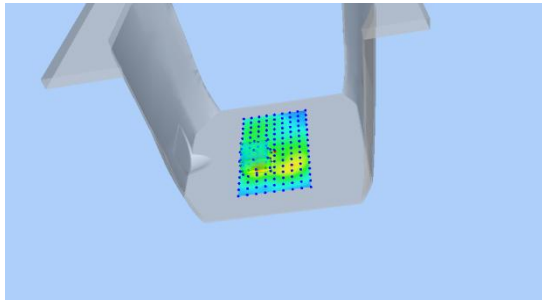
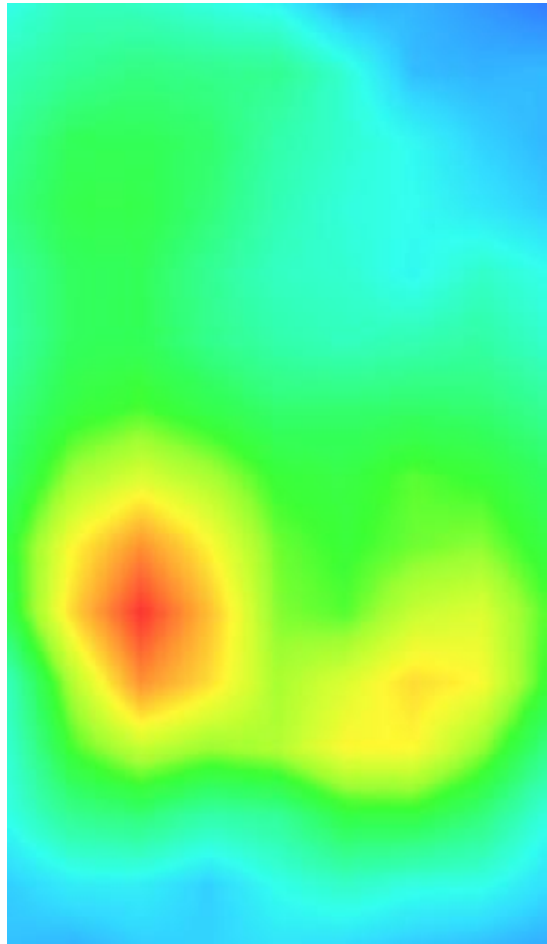
Maximum location: X=-20.00 Y=-22.00

SAR Peak: 0.60 W/kg

SAR 10g (W/Kg)	0.158728
SAR 1g (W/Kg)	0.326520

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5958	0.3538	0.1748	0.0844	0.0419



3D screen shot	Hot spot position
	

Plot 21: LTE Band7, 20MHz, Edge A, Middle,10mm, upper Antenna

Type: Phone measurement

Date of measurement: 03/30/2020

Measurement duration: 22 minutes 20 seconds

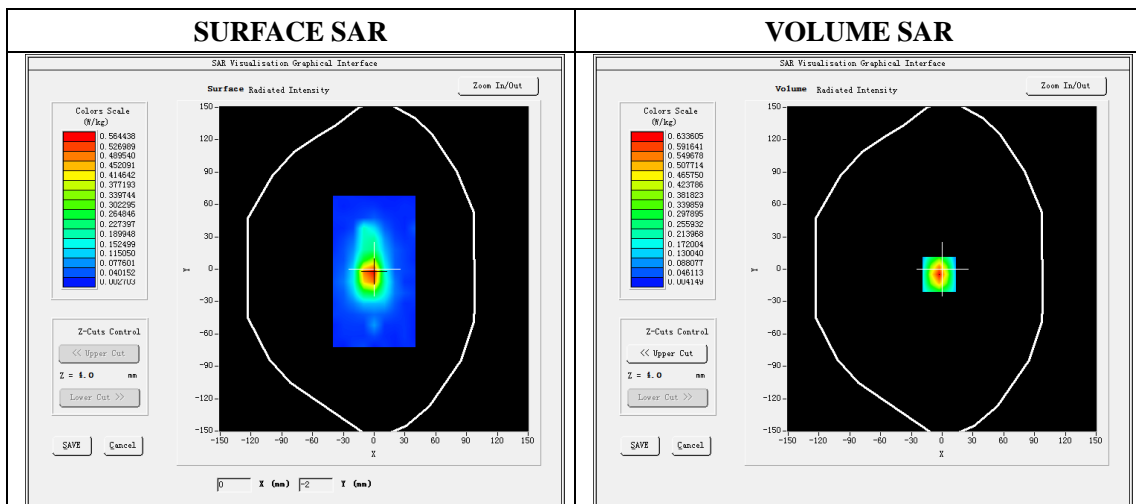
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Edge A
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)	52.52
Relative permittivity (imaginary)	14.88
Conductivity (S/m)	2.15
Variation (%)	-0.19
ConvF:	2.43

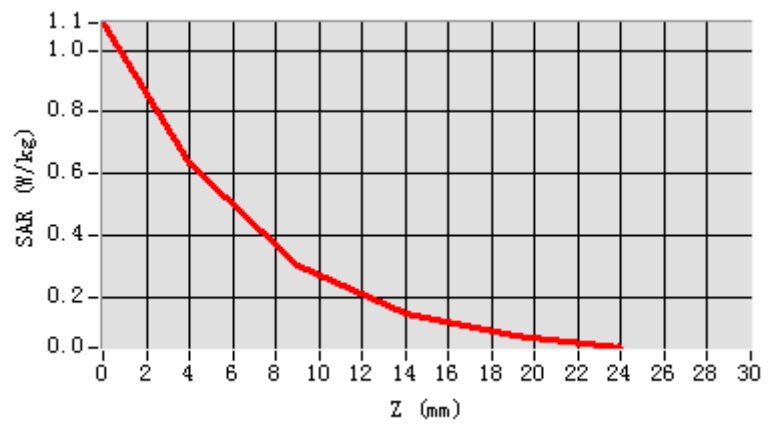


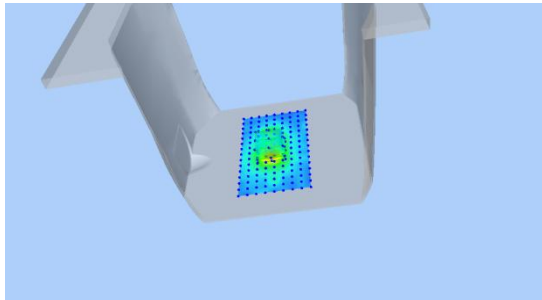
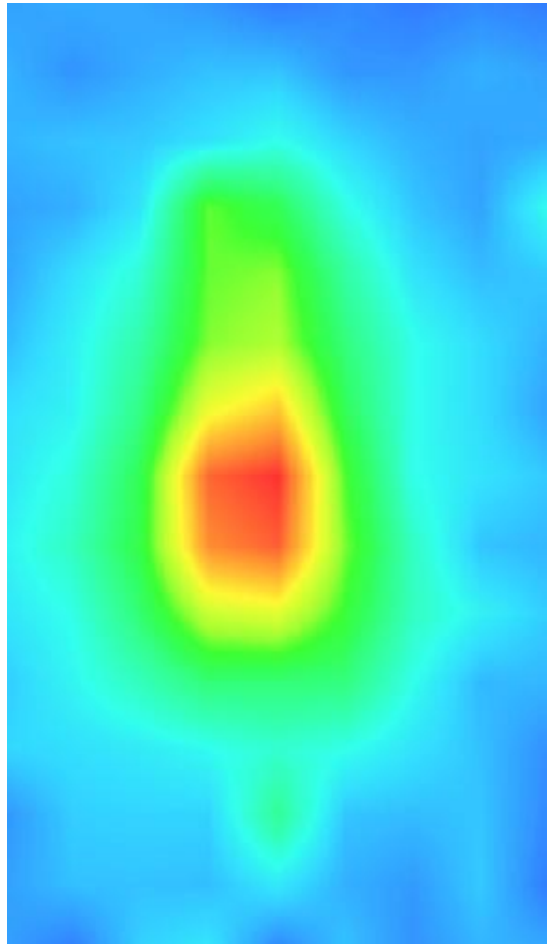
Maximum location: X=-3.00 Y=-5.00

SAR Peak: 1.09 W/kg

SAR 10g (W/Kg)	0.261436
SAR 1g (W/Kg)	0.573040

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.0896	0.6336	0.3039	0.1430	0.0710



3D screen shot	Hot spot position
	

Plot 22: LTE Band12, 10MHz,Right Cheek, Middle

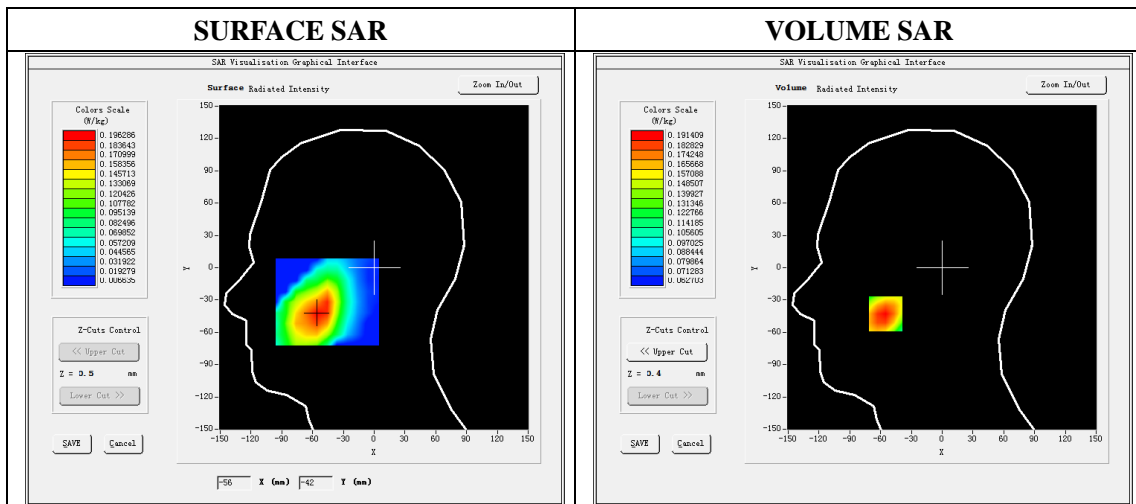
Type: Phone measurement
 Date of measurement: 03/24/2020
 Measurement duration: 22 minutes 24 seconds
 Mobile Phone IMEI number: --

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 12
Channels	23095
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	707.5
Relative permittivity (real part)	41.85
Relative permittivity (imaginary)	21.60
Conductivity (S/m)	0.90
Variation (%)	3.81
ConvF:	1.54

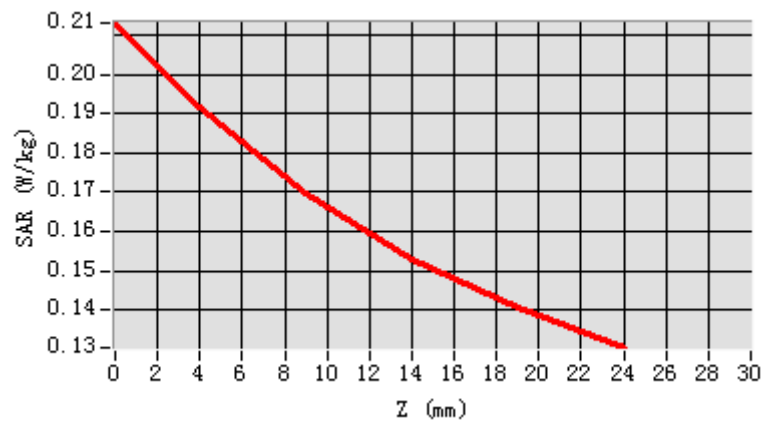


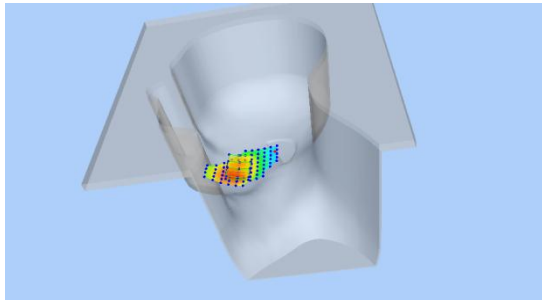
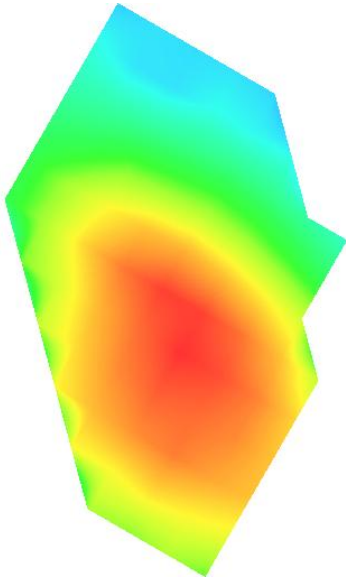
Maximum location: X=-55.00, Y=-43.00

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.161861
SAR 1g (W/Kg)	0.191389

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.2130	0.1914	0.1695	0.1530	0.1406



3D screen shot	Hot spot position
	

Plot 23: LTE Band12, 10MHz, Back, Middle,10mm

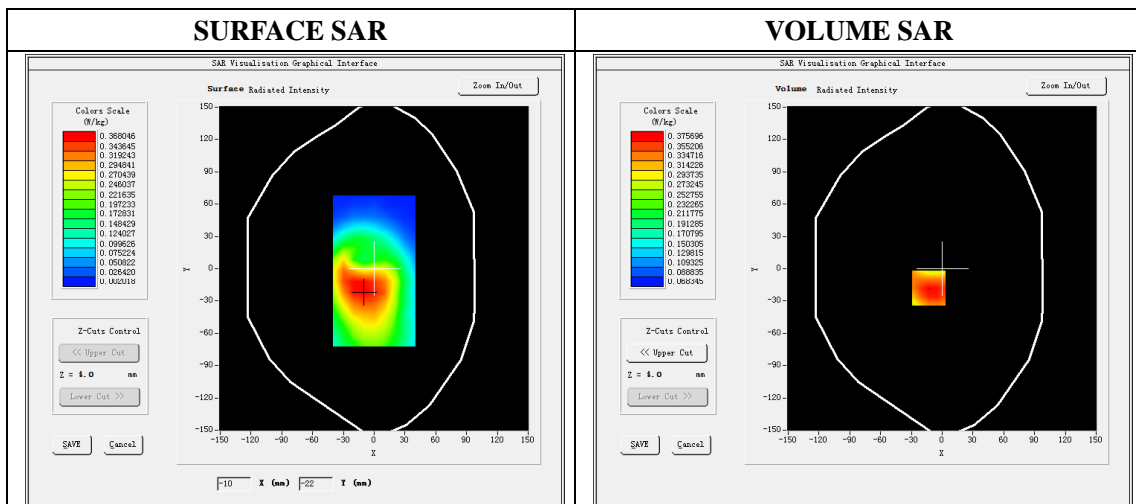
Type: Phone measurement
 Date of measurement: 03/24/2020
 Measurement duration: 22 minutes 22 seconds
 Mobile Phone IMEI number: --

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 12
Channels	23095
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	707.5
Relative permittivity (real part)	55.54
Relative permittivity (imaginary)	23.28
Conductivity (S/m)	0.97
Variation (%)	-0.13
ConvF:	1.59

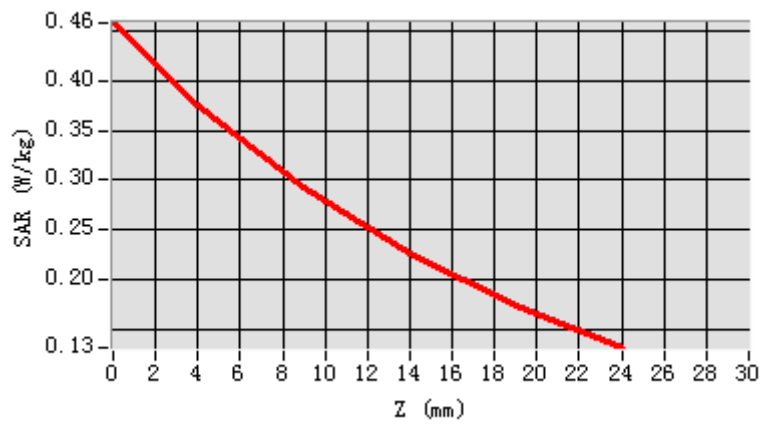


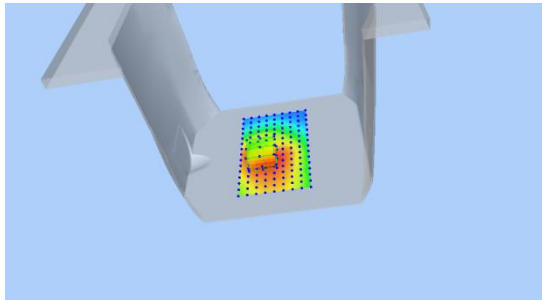
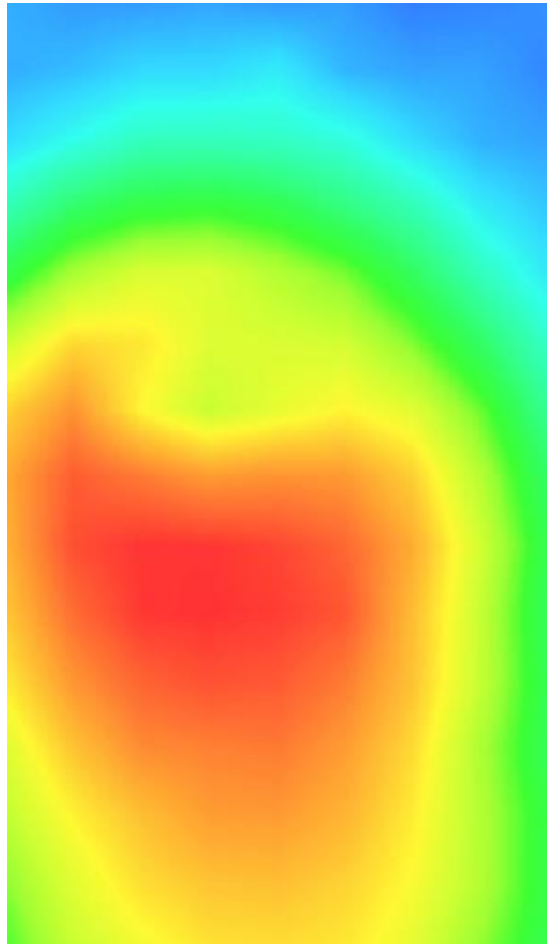
Maximum location: X=-13.00, Y=-18.00

SAR Peak: 0.46W/kg

SAR 10g (W/Kg)	0.286592
SAR 1g (W/Kg)	0.373748

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4578	0.3757	0.2919	0.2262	0.1744



3D screen shot	Hot spot position
	

Plot 24: LTE Band17, 10MHz,Right Check, Middle

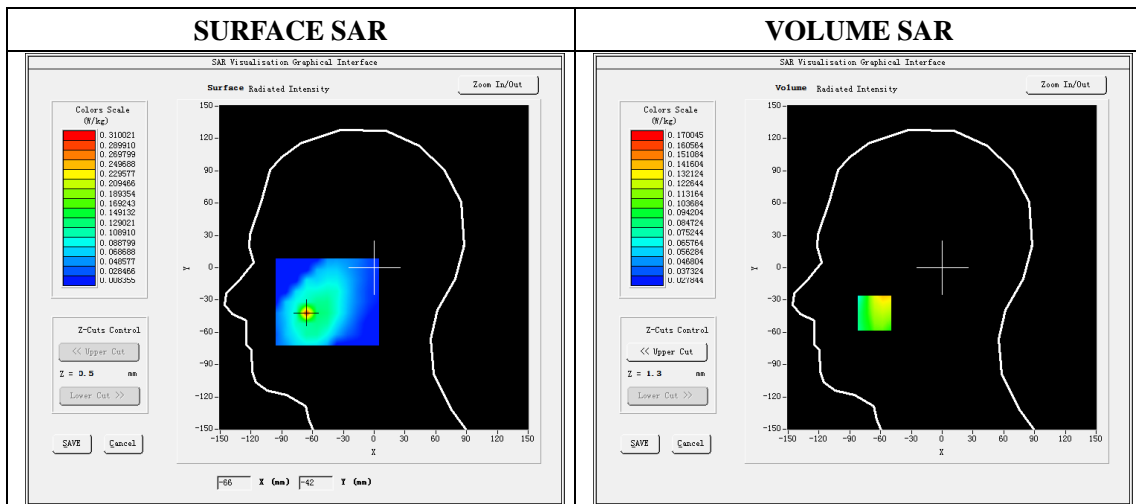
Type: Phone measurement
 Date of measurement: 03/24/2020
 Measurement duration: 22 minutes 21 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Check
Band	LTE Band 17
Channels	23790
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	710
Relative permittivity (real part)	41.85
Relative permittivity (imaginary)	21.60
Conductivity (S/m)	0.90
Variation (%)	-4.78
ConvF:	1.54

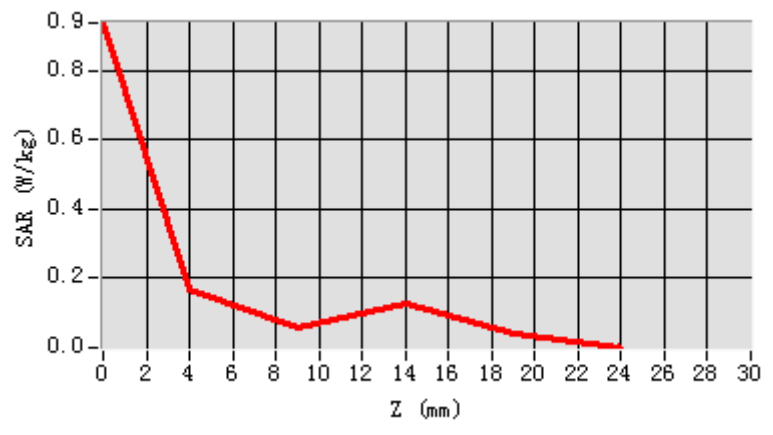


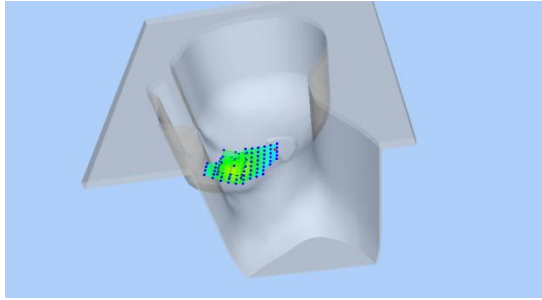
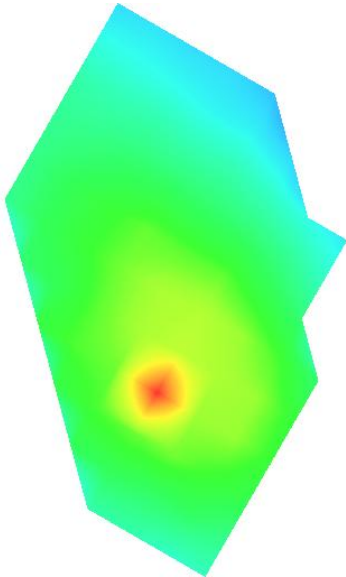
Maximum location: X=-66.00, Y=-42.00

SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.107643
SAR 1g (W/Kg)	0.155077

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.9387	0.1700	0.0591	0.1255	0.0417



3D screen shot	Hot spot position
	

Plot 25: LTE Band 17, 10MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 03/24/2020

Measurement duration: 22 minutes 24 seconds

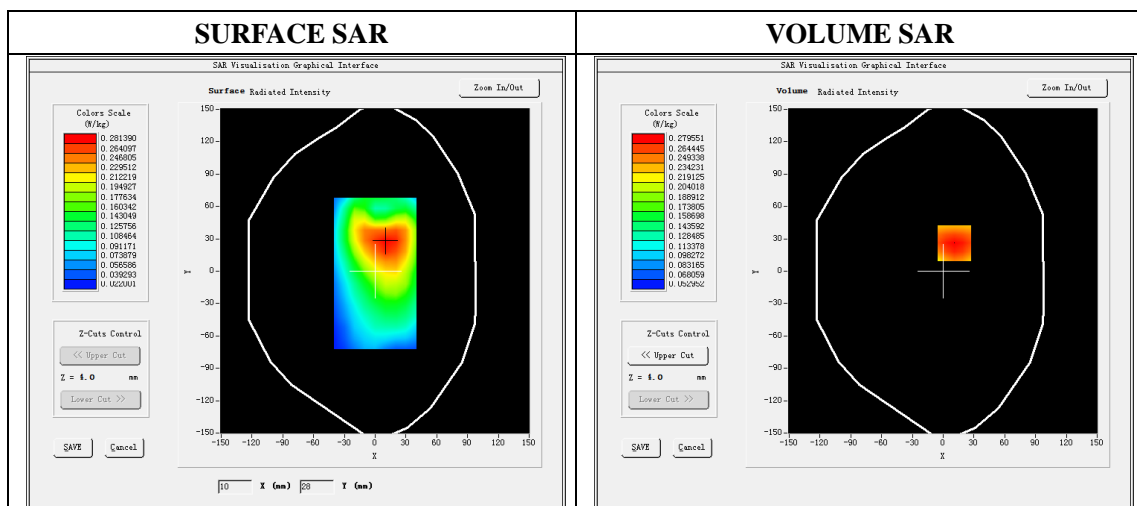
Mobile Phone IMEI number: --

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 17
Channels	23790
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	710
Relative permittivity (real part)	55.54
Relative permittivity (imaginary)	23.28
Conductivity (S/m)	0.97
Variation (%)	-2.44
ConvF:	1.59

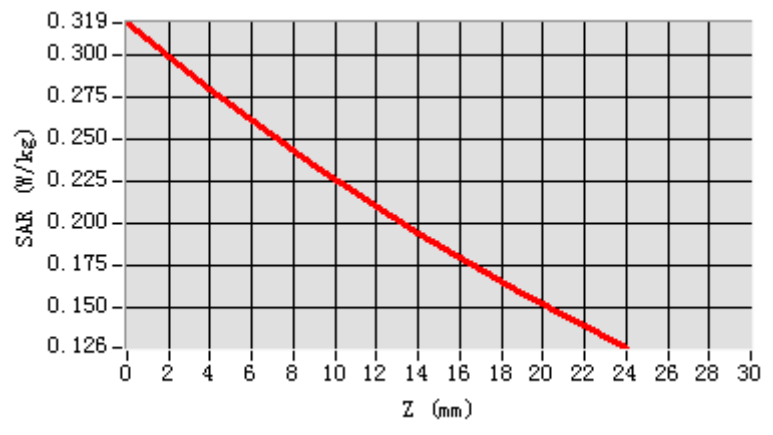


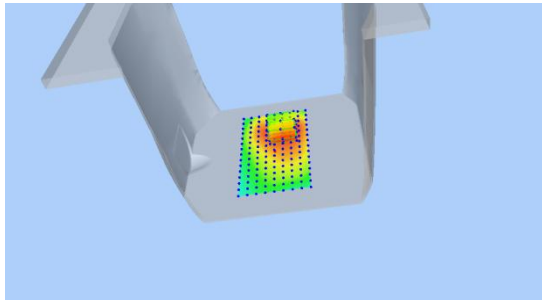
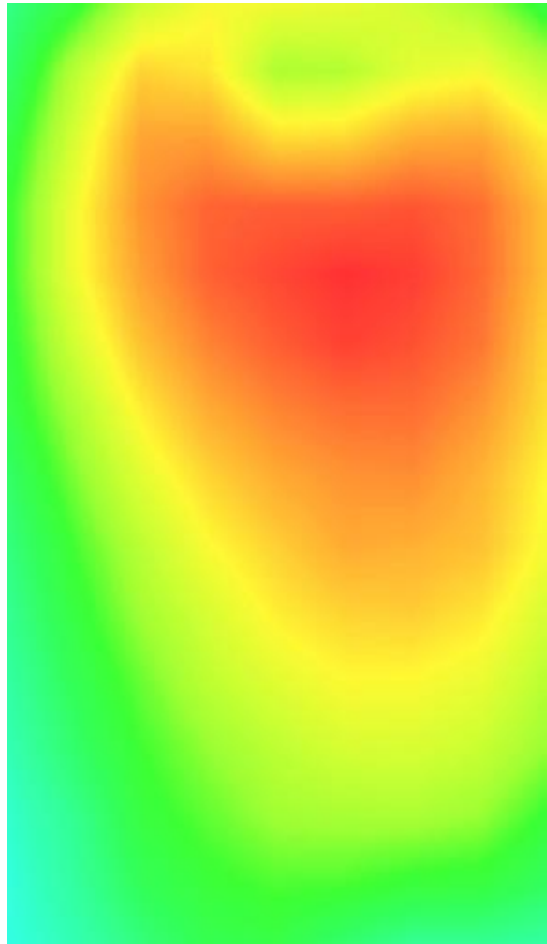
Maximum location: X=11.00, Y=26.00

SAR Peak: 0.33W/kg

SAR 10g (W/Kg)	0.220026
SAR 1g (W/Kg)	0.273260

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.3187	0.2796	0.2348	0.1946	0.1586



3D screen shot	Hot spot position
	

Plot 26: LTE Band26, 15MHz,Right Cheek, Middle

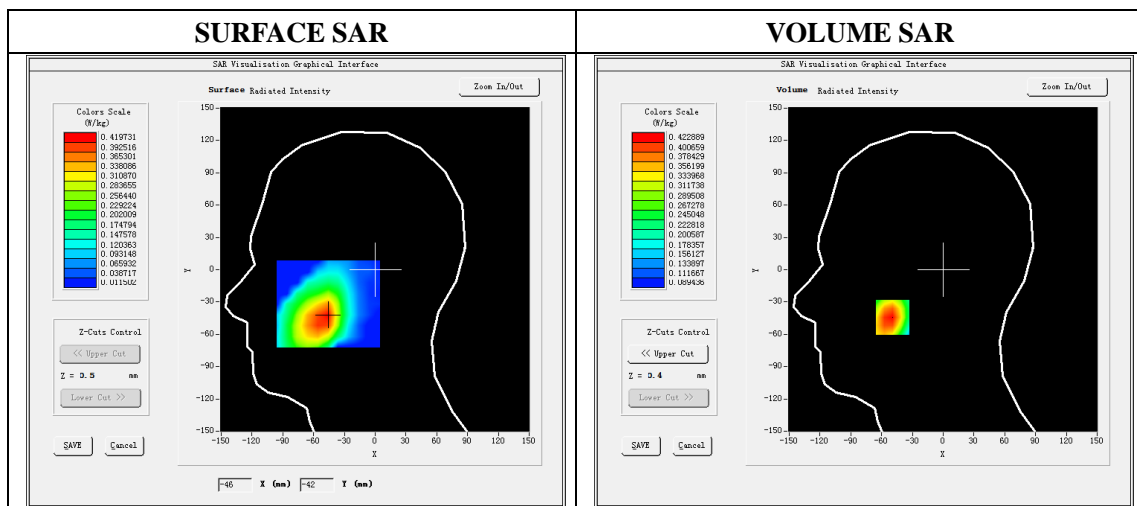
Type: Phone measurement
 Date of measurement: 03/25/2020
 Measurement duration: 22 minutes 23 seconds
 Mobile Phone IMEI number: --

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)	41.59
Relative permittivity (imaginary)	18.85
Conductivity (S/m)	0.89
Variation (%)	2.15
ConvF:	1.92

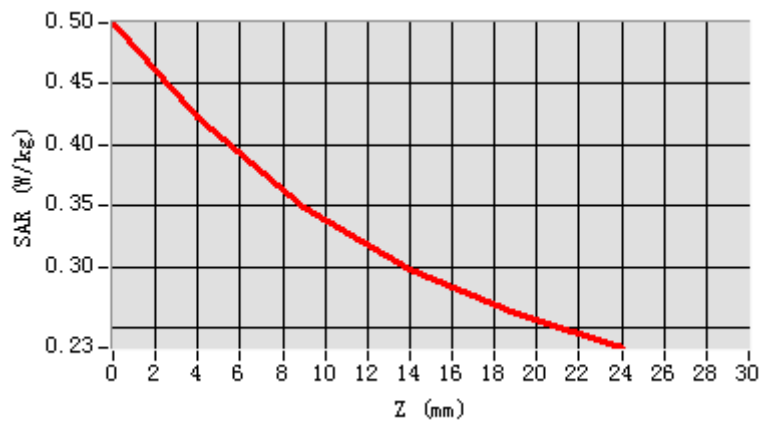


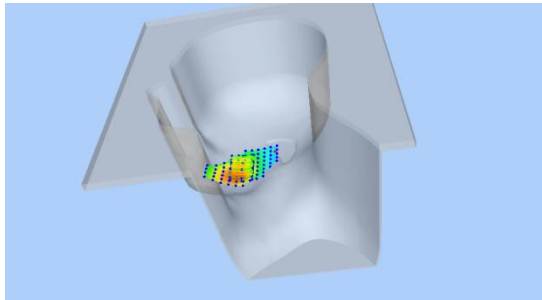
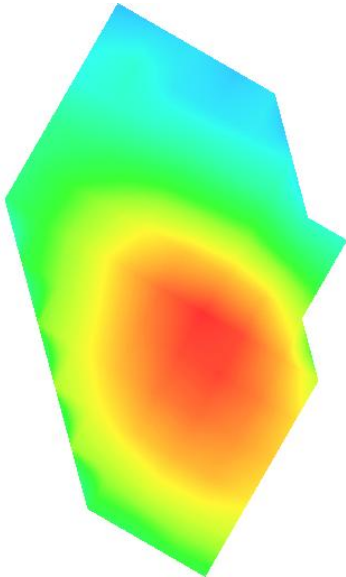
Maximum location: X=-49.00, Y=-44.00

SAR Peak: 0.50 W/kg

SAR 10g (W/Kg)	0.227753
SAR 1g (W/Kg)	0.420948

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5000	0.4229	0.3491	0.2972	0.2614



3D screen shot	Hot spot position
	

Plot 27: LTE Band26, 15MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 03/25/2020

Measurement duration: 22 minutes 29 seconds

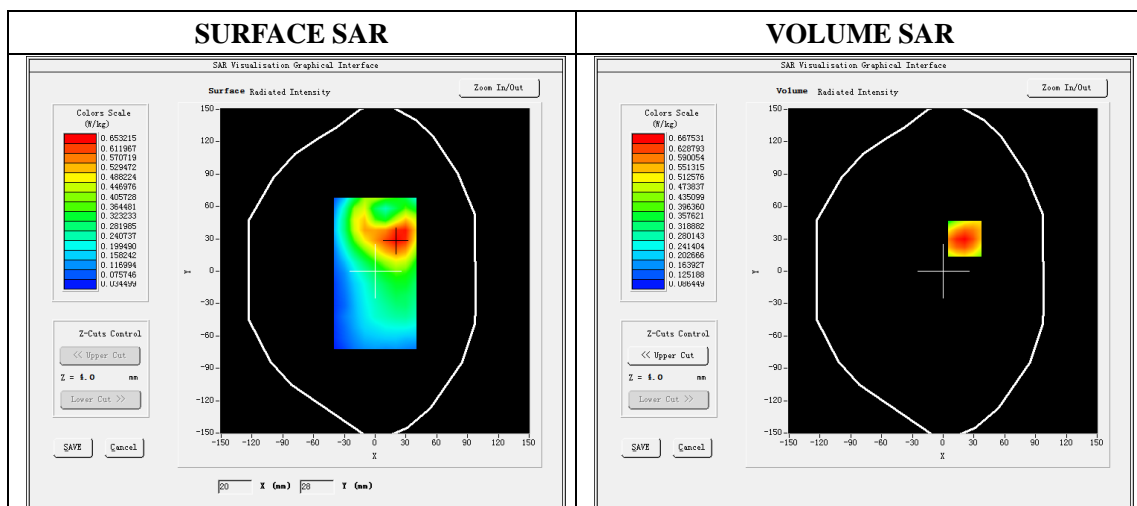
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	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)	55.19
Relative permittivity (imaginary)	21.34
Conductivity (S/m)	0.99
Variation (%)	-2.80
ConvF:	1.99

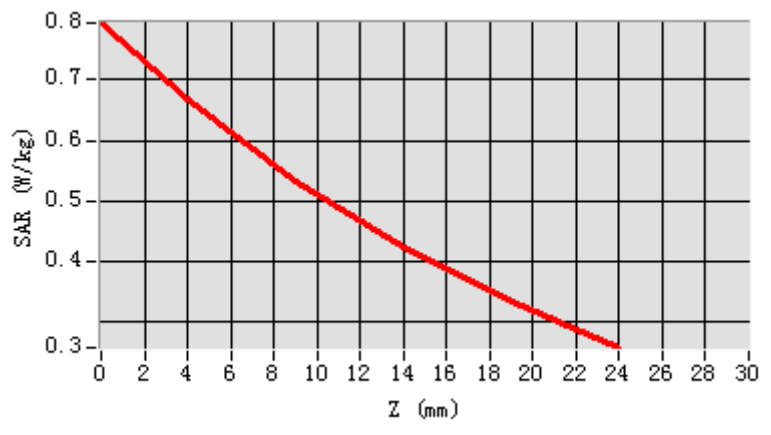


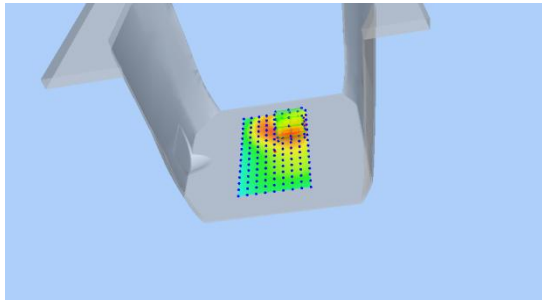
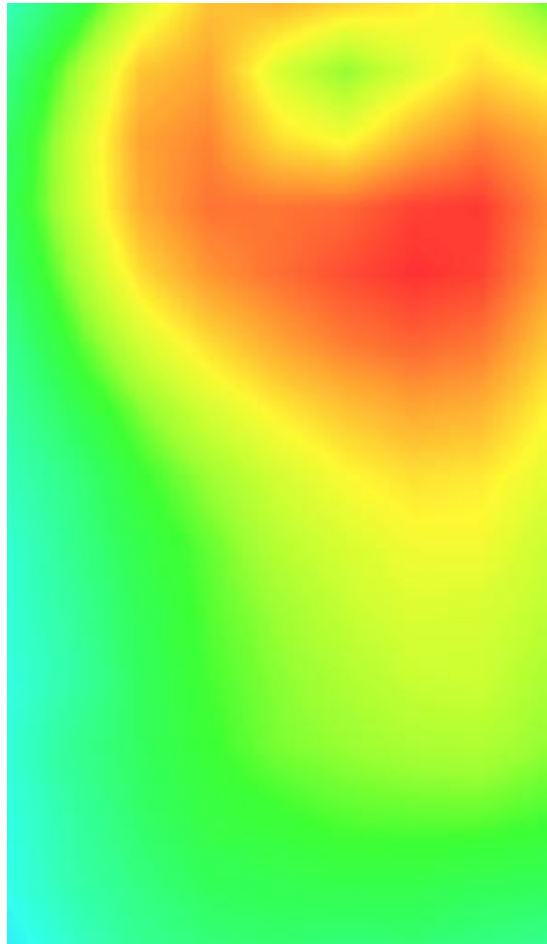
Maximum location: X=21.00, Y=30.00

SAR Peak: 0.80W/kg

SAR 10g (W/Kg)	0.490510
SAR 1g (W/Kg)	0.658392

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.7949	0.6675	0.5330	0.4227	0.3321



3D screen shot	Hot spot position
	

Plot 28: LTE Band66, 20MHz, Right Cheek, Middle

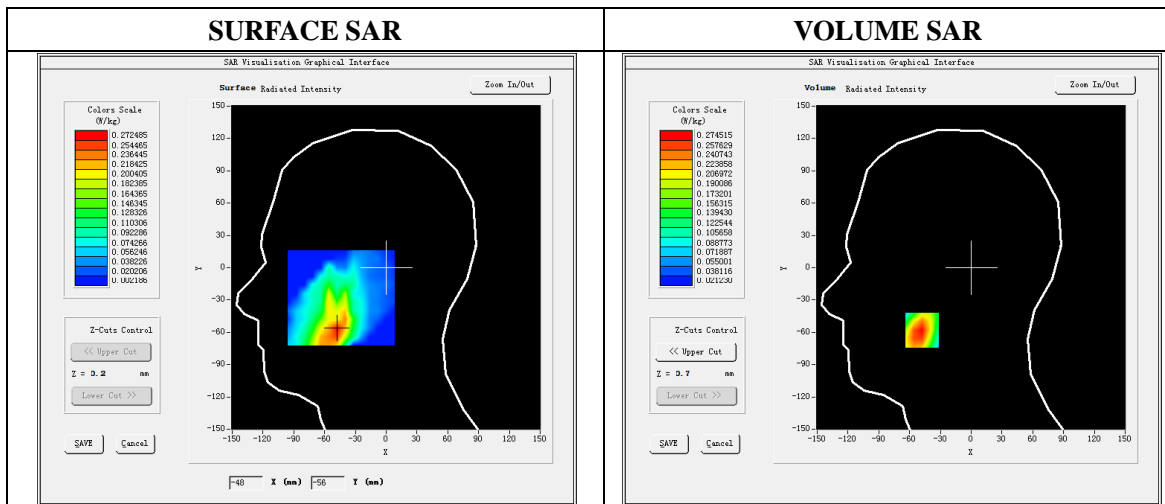
Type: Phone measurement
 Date of measurement: 03/26/2020
 Measurement duration: 22 minutes 26 seconds
 Mobile Phone IMEI number: --

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 66
Channels	132197
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

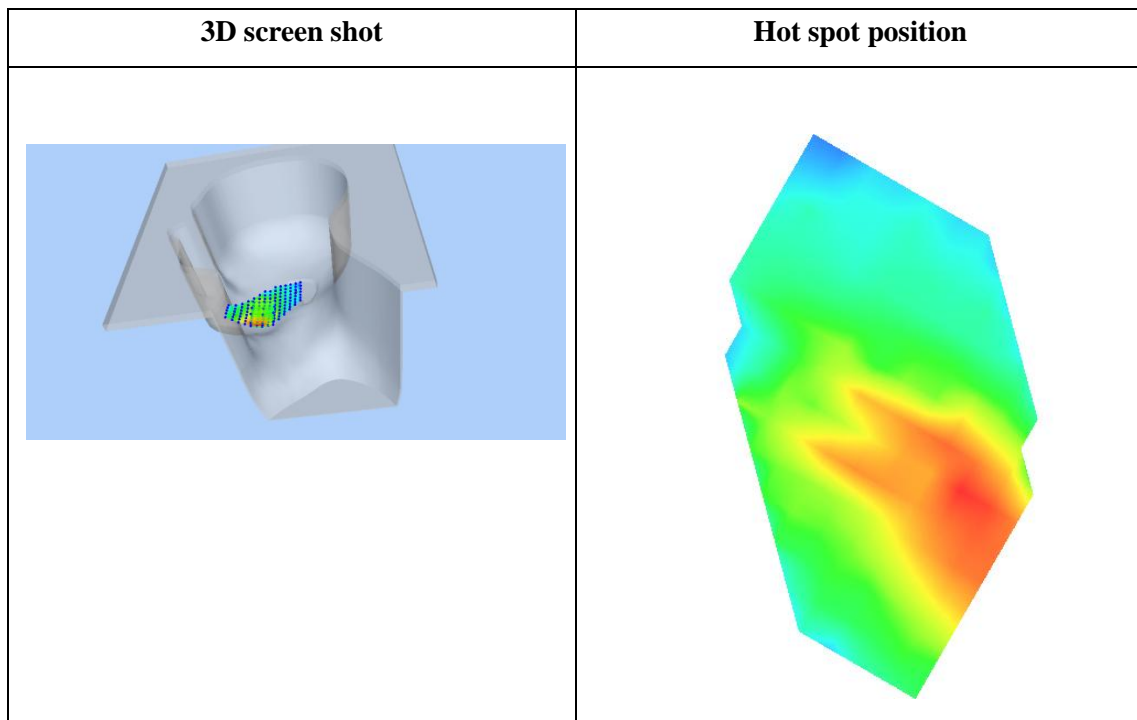
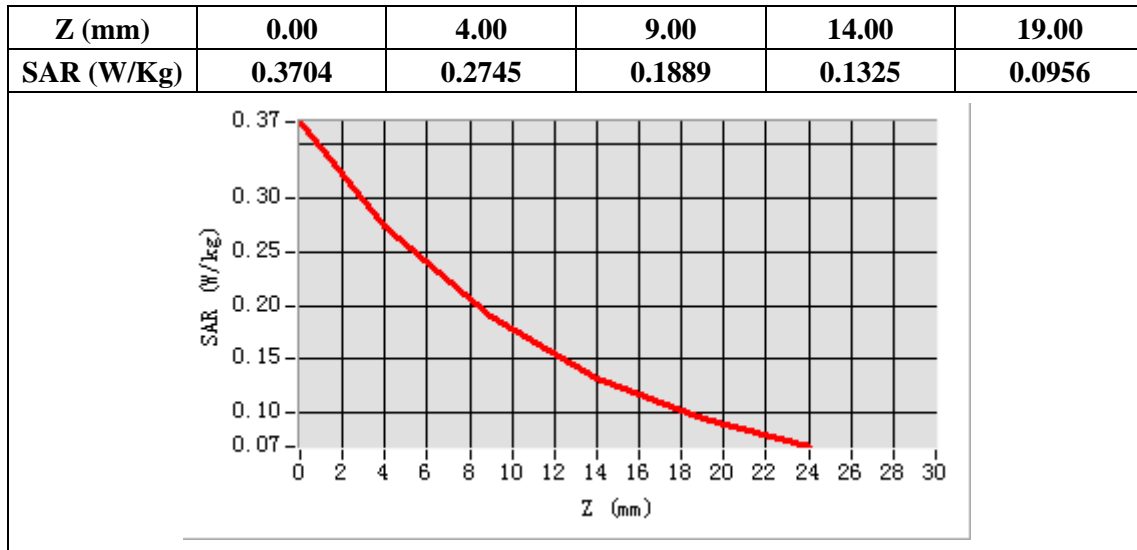
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	40.62
Relative permittivity (imaginary)	13.90
Conductivity (S/m)	1.39
Variation (%)	-4.84
ConvF:	2.14



Maximum location: X=-48.00, Y=-58.00

SAR Peak: 0.38W/kg

SAR 10g (W/Kg)	0.173296
SAR 1g (W/Kg)	0.268790



Plot 29: LTE Band66, 20MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 03/26/2020

Measurement duration: 22 minutes 27 seconds

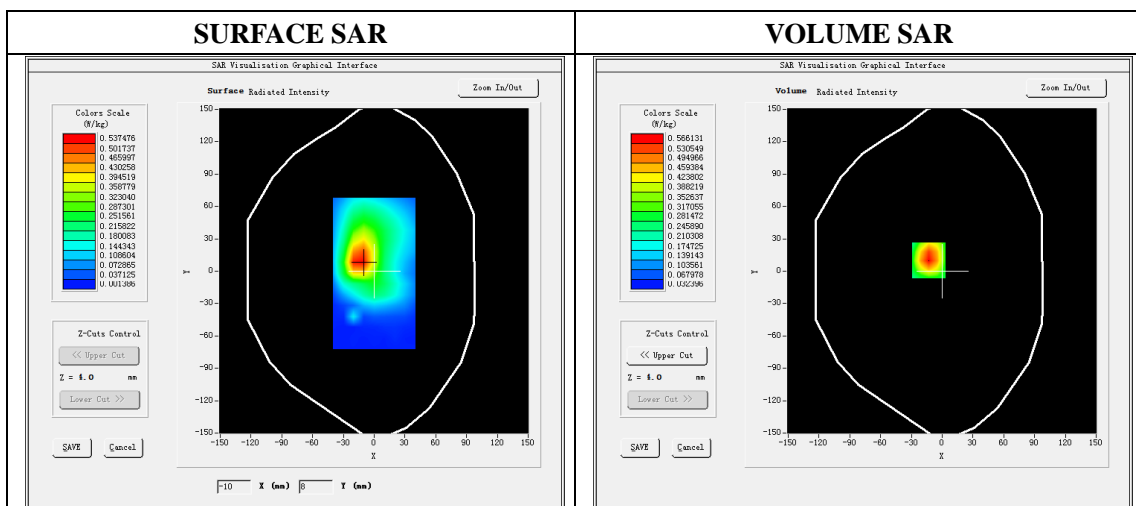
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

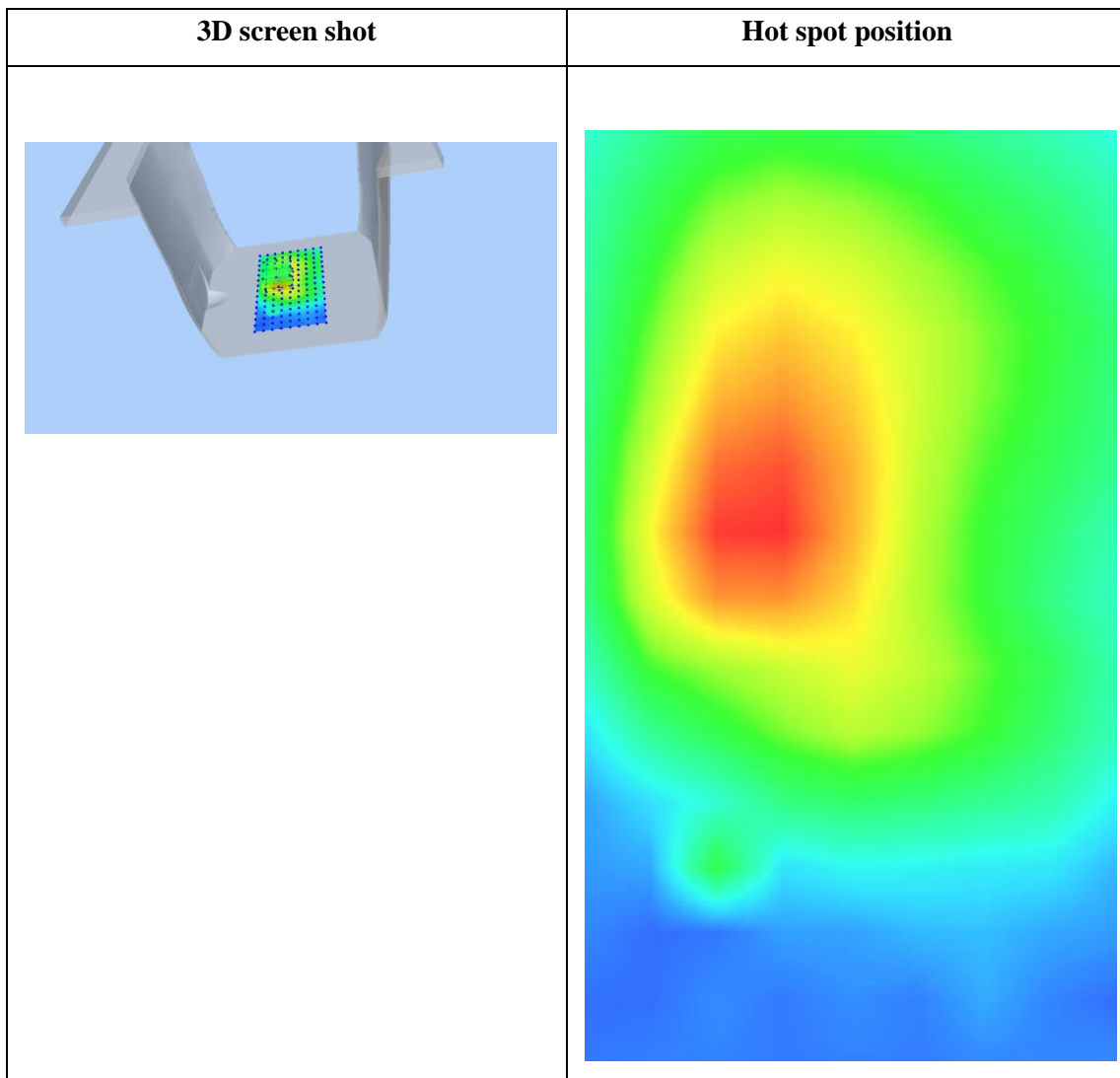
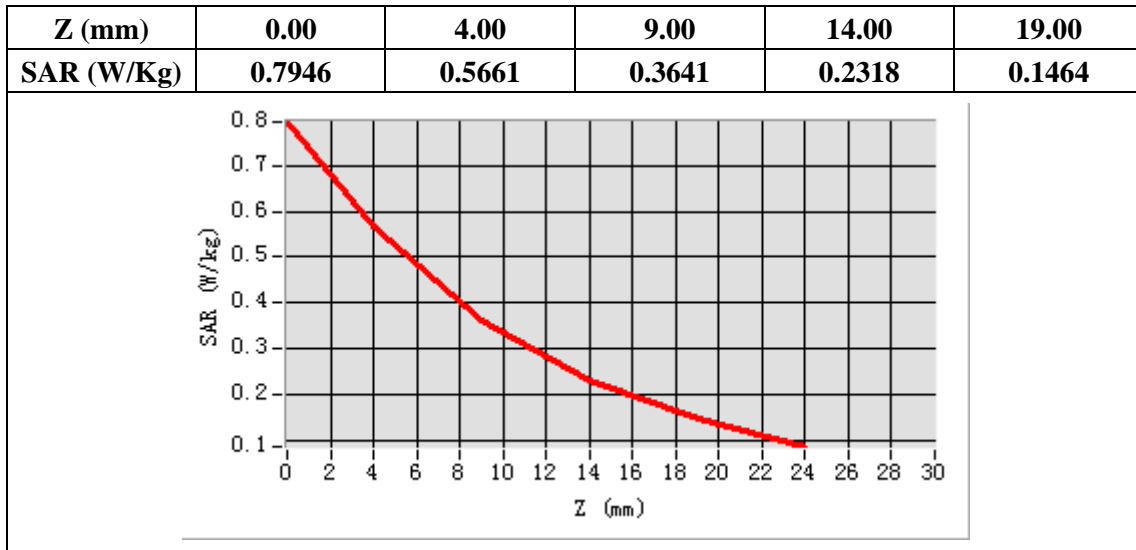
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	53.27
Relative permittivity (imaginary)	15.10
Conductivity (S/m)	1.51
Variation (%)	-1.80
ConvF:	2.22



Maximum location: X=-13.00, Y=10.00

SAR Peak: 0.80W/kg

SAR 10g (W/Kg)	0.313678
SAR 1g (W/Kg)	0.531997



Plot 30: Wi-Fi 802.11b Right Cheek, Middle

Type: Phone measurement

Date of measurement: 03/28/2020

Measurement duration: 22 minutes 28 seconds

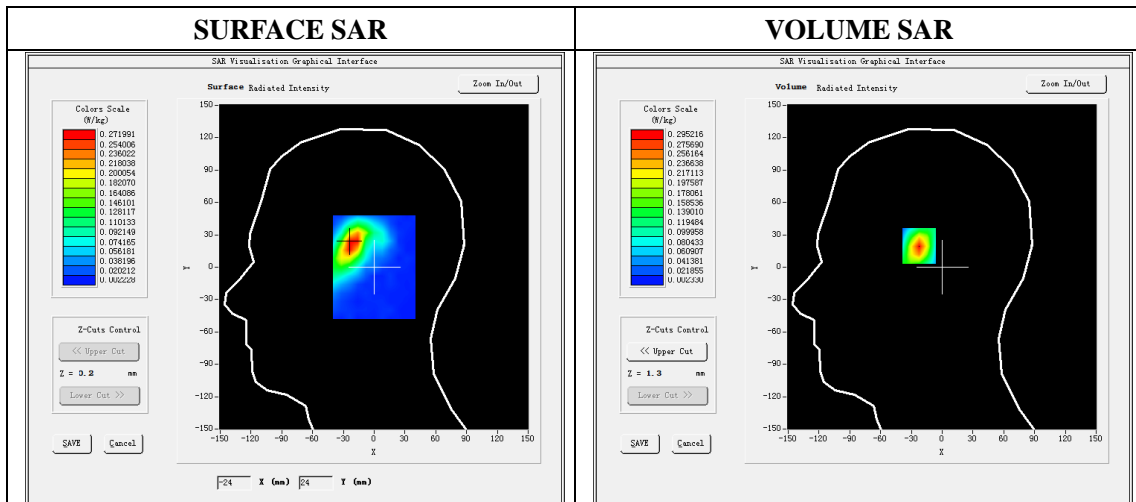
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	2437
Relative permittivity (real part)	39.31
Relative permittivity (imaginary)	13.37
Conductivity (S/m)	1.82
Variation (%)	-1.68
ConvF:	2.05

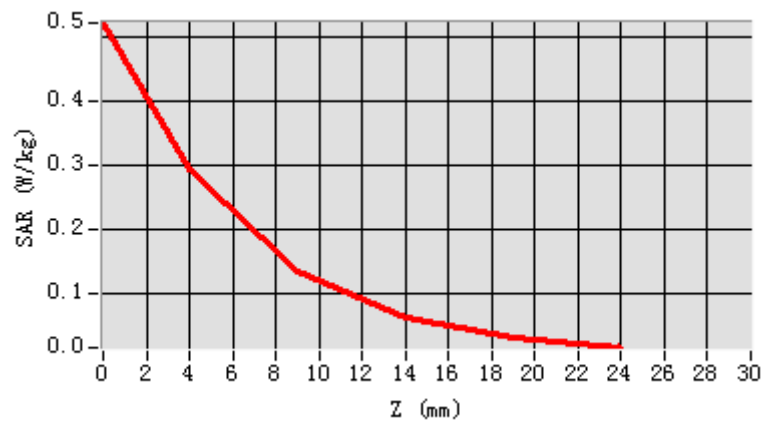


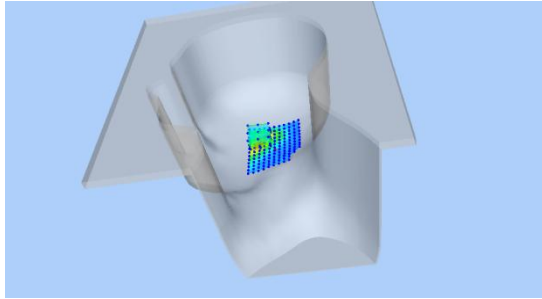
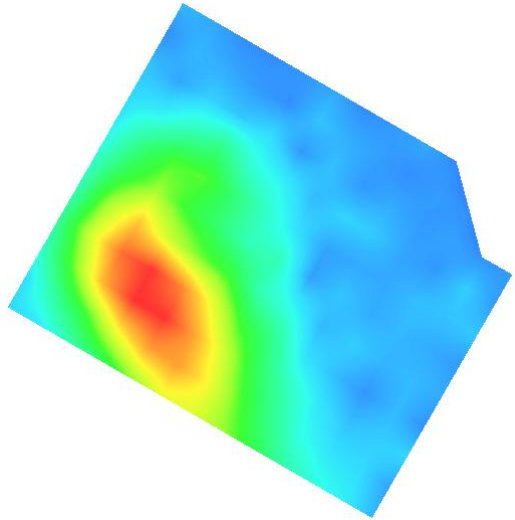
Maximum location: X=-22.00 Y=22.00

SAR Peak:0.52 W/kg

SAR 10g (W/Kg)	0.125990
SAR 1g (W/Kg)	0.276123

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5217	0.2952	0.1362	0.0624	0.0316



3D screen shot	Hot spot position
	

Plot 31: Wi-Fi 802.11b, Back ,Middle, 10mm

Type: Phone measurement

Date of measurement: 03/28/2020

Measurement duration: 22 minutes 32 seconds

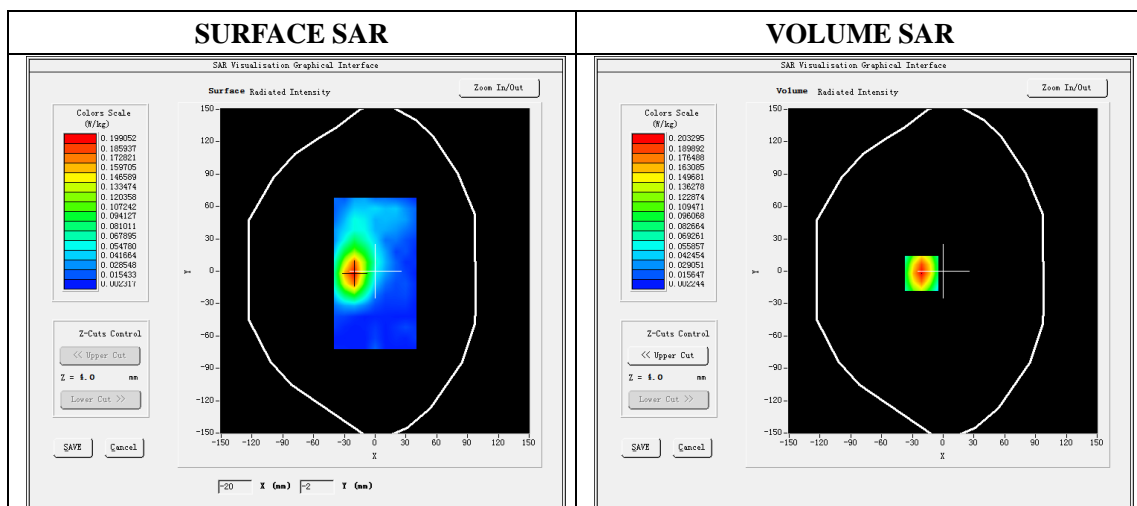
Mobile Phone IMEI number: --

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

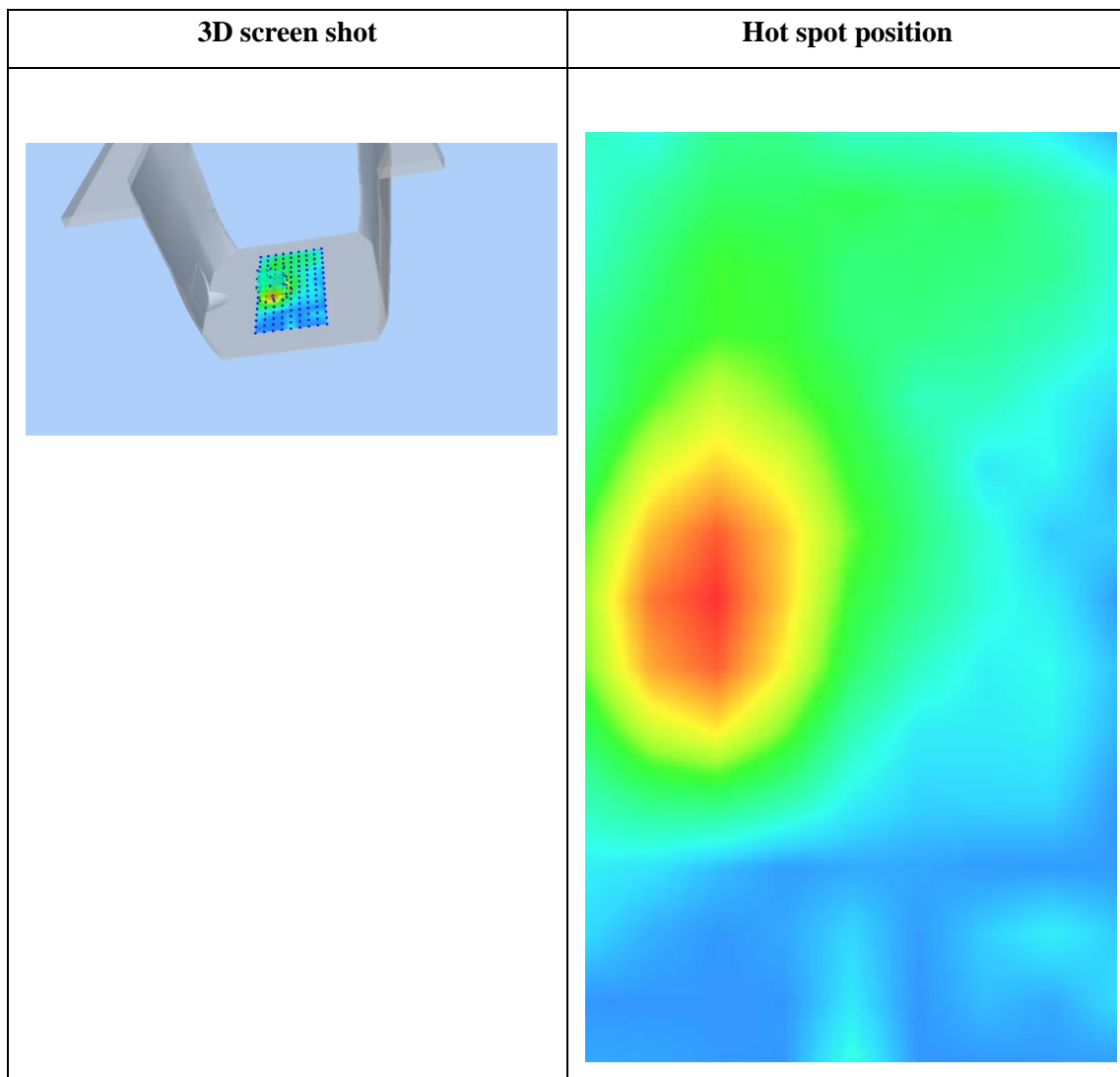
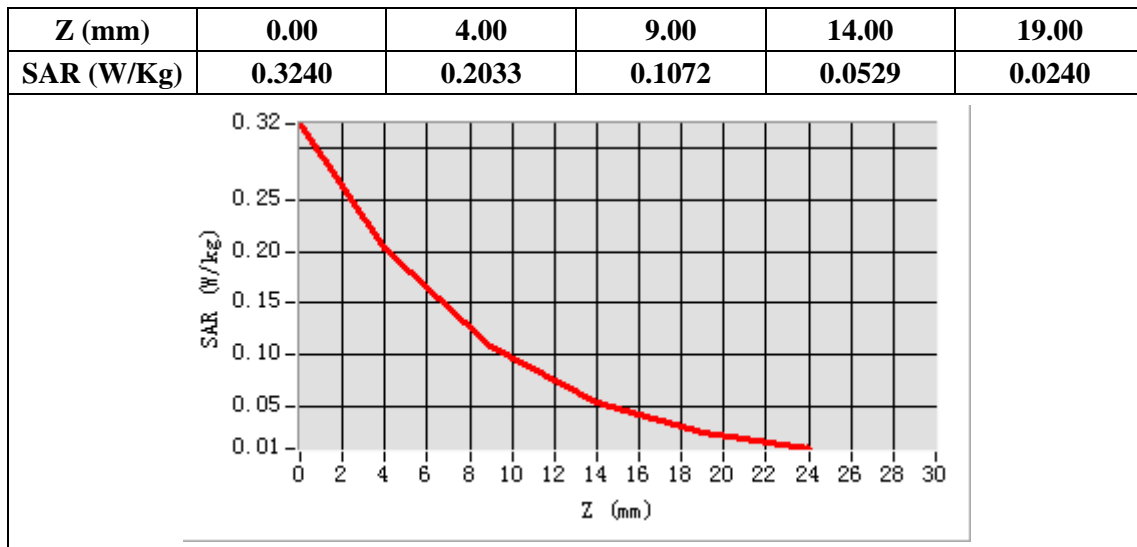
E-Field Probe	SATIMO SN_41/18_EPG0330
Frequency (MHz)	2437
Relative permittivity (real part)	52.52
Relative permittivity (imaginary)	14.47
Conductivity (S/m)	1.97
Variation (%)	-4.64
ConvF:	2.12



Maximum location: X=-21.00 Y=-2.00

SAR Peak: 0.33 W/kg

SAR 10g (W/Kg)	0.097078
SAR 1g (W/Kg)	0.191238



Plot 32: WIFI 5G 802.11a(20MHZ), Right Cheek, Middle

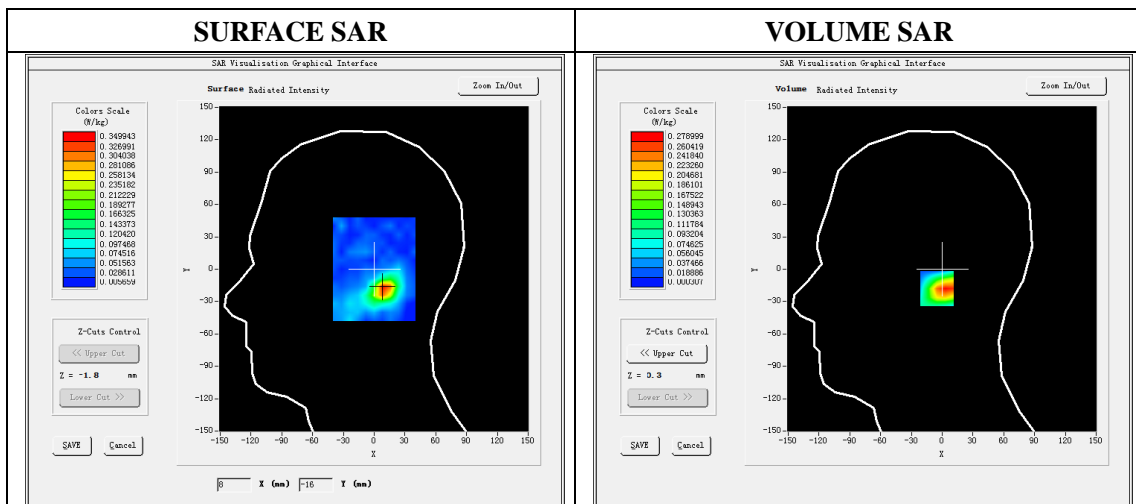
Type: Phone measurement
 Date of measurement: 03/31/2020
 Measurement duration: 22 minutes 31 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=4mm,dy=4mm
ZoomScan	7x7x12,dx=4m, dy=4mm, dz=2mm
Phantom	Validation plane
Device Position	Right Cheek
Band	WIFI 5G
Channels	36
Signal	OFDM (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	5180
Relative permittivity (real part)	36.13
Relative permittivity (imaginary)	16.03
Conductivity (S/m)	4.63
Variation (%)	-3.51
ConvF:	2.15

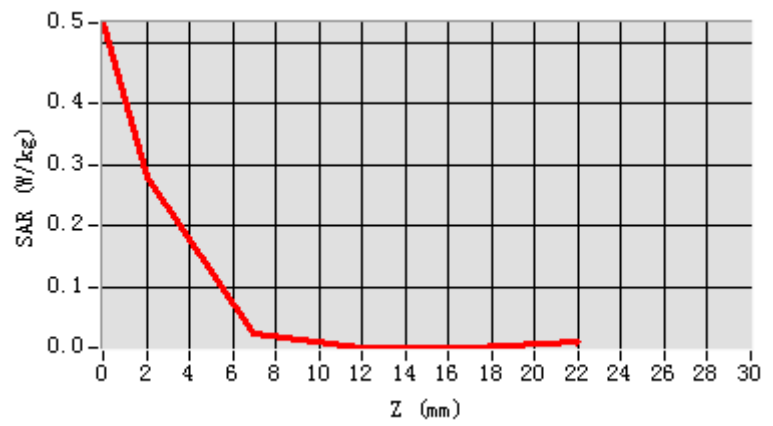


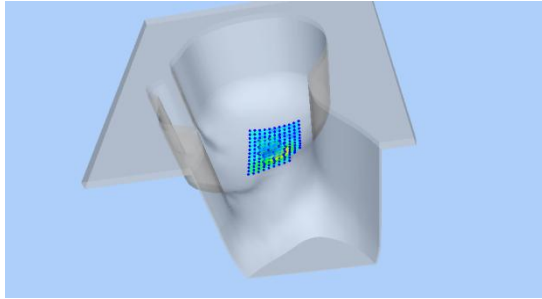
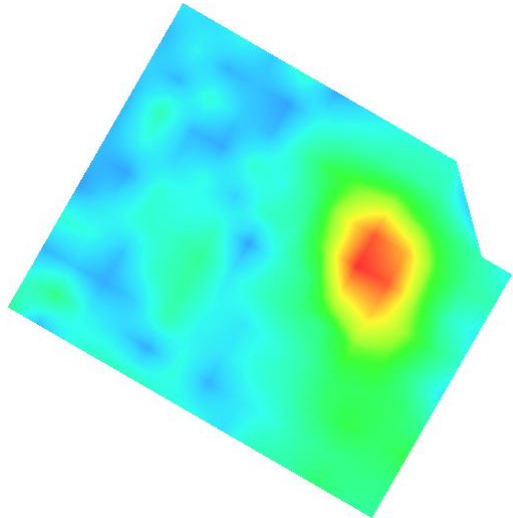
Maximum location: X=1.00 Y=-18.00

SAR Peak: 0.83 W/kg

SAR 10g (W/Kg)	0.114459
SAR 1g (W/Kg)	0.291559

Z (mm)	0.00	2.00	7.00	12.00	17.00
SAR (W/Kg)	0.5325	0.2790	0.0227	0.0013	0.0024



3D screen shot	Hot spot position
	

Plot 33: WIFI 5G 802.11a(20MHz), Back, Middle,10mm

Type: Phone measurement

Date of measurement: 03/31/2020

Measurement duration: 22 minutes 30 seconds

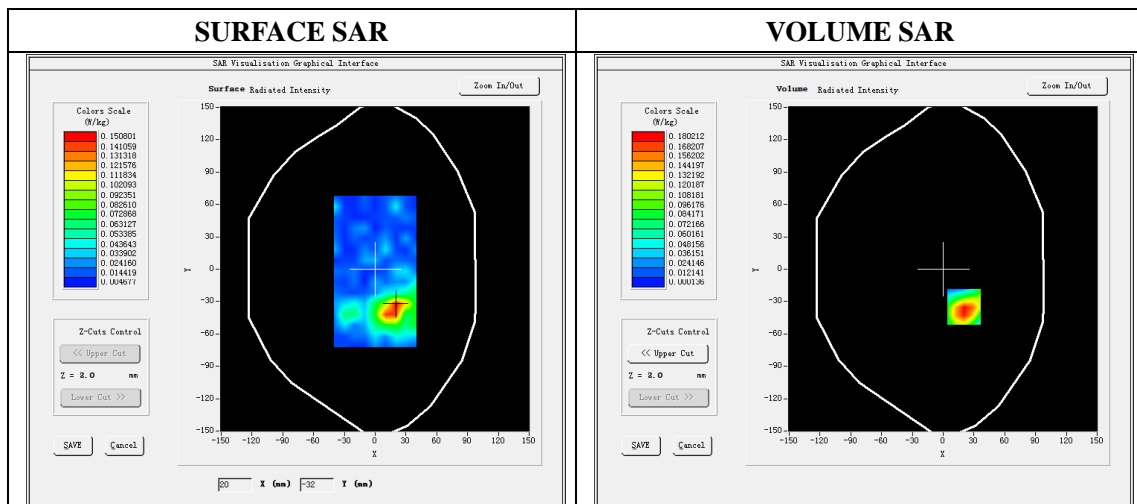
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=4mm,dy=4mm
ZoomScan	7x7x12,dx=4m, dy=4mm, dz=2mm
Phantom	Validation plane
Device Position	Back
Band	WIFI 5G
Channels	36
Signal	OFDM (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	5180
Relative permittivity (real part)	49.08
Relative permittivity (imaginary)	18.24
Conductivity (S/m)	5.27
Variation (%)	-4.99
ConvF:	2.21

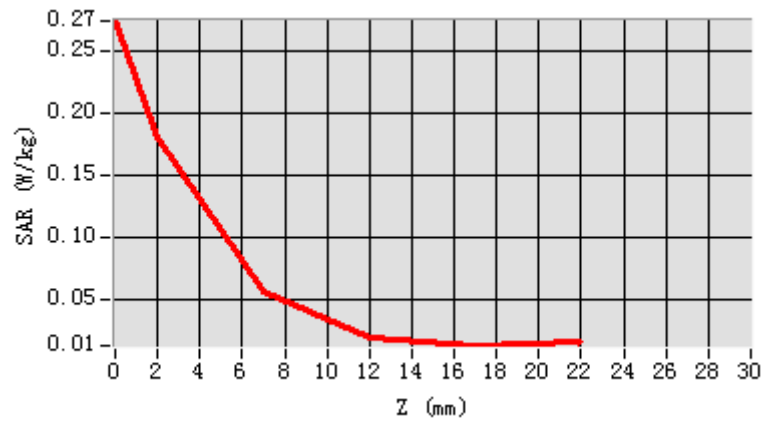


Maximum location: X=20.00 Y=-35.00

SAR Peak: 0.31 W/kg

SAR 10g (W/Kg)	0.056276
SAR 1g (W/Kg)	0.126244

Z (mm)	0.00	2.00	7.00	12.00	17.00
SAR (W/Kg)	0.2741	0.1802	0.0553	0.0182	0.0123



3D screen shot	Hot spot position
