

## Appendix B: SAR Measurement results Plots

### Antenna1

Plot	Frequency/Mode	Testing Position and Channel	Test Date
1	GSM850	Right Cheek Middle	2019/03/15
2	GSM850/GPRS4Tx	Body Back, Middle ,10mm	2019/03/15
3	GSM1900	Right Cheek Middle	2019/03/16
4	GSM1900/GPRS4Tx	Body Back Middle ,10mm	2019/03/16
5	WCDMA850	Right Cheek Middle	2019/03/15
6	WCDMA850	Body Back, Middle ,10mm	2019/03/15
7	WCDMA1900	Right Cheek Middle	2019/03/18
8	WCDMA1900	Body Back, Middle ,10mm	2019/03/18
9	WCDMA1700	Right Cheek Middle	2019/03/17
10	WCDMA1700	Body Back, Middle ,10mm	2019/03/17
11	CDMA0	Right Cheek Middle	2019/03/16
12	CDMA0	Body Back, Middle ,10mm	2019/03/17
13	CDMA1	Right Cheek Middle	2019/03/17
14	CDMA1	Body Back, Middle ,10mm	2019/03/17
15	LTE Band2	Right Cheek Middle	2019/03/18
16	LTE Band2	Body Face, Middle ,10mm	2019/03/18
17	LTE Band4	Right Cheek Middle	2019/03/17
18	LTE Band4	Body Back, Middle ,10mm	2019/03/17
19	LTE Band5	Right Cheek Middle	2019/03/16
20	LTE Band5	Body Back, Middle ,10mm	2019/03/16
21	LTE Band7	Left Cheek Middle	2019/03/19
22	LTE Band7	Body Back, Middle ,10mm	2019/03/19
23	LTE Band12	Right Cheek Middle	2019/03/15
24	LTE Band12	Body Back, Middle ,10mm	2019/03/15
25	LTE Band17	Right Cheek Middle	2019/03/15
26	LTE Band17	Body Back, Middle ,10mm	2019/03/15
27	LTE Band25	Right Cheek Middle	2019/03/18
28	LTE Band25	Body Back, Middle ,10mm	2019/03/18
29	LTE Band26	Right Cheek Middle	2019/03/16
30	LTE Band26	Body Back, Middle ,10mm	2019/03/16



31	LTE Band30	Right Cheek Middle	2019/03/19
32	LTE Band30	Body Back, Middle ,10mm	2019/03/19
33	LTE Band41	Right Cheek Middle	2019/03/19
34	LTE Band41	Body Back, Middle ,10mm	2019/03/19
35	LTE Band66	Right Cheek Middle	2019/03/19
36	LTE Band66	Body Back, Middle ,10mm	2019/03/19

## Antenna2

Plot	Frequency/Mode	Testing Position and Channel	Test Date
41	GSM850	Right Cheek Middle	2019/03/21
42	GSM850/GPRS4Tx	Body Back, Middle ,10mm	2019/03/21
43	GSM1900	Right Cheek Middle	2019/03/24
44	GSM1900/GPRS4Tx	Body Back Middle ,10mm	2019/03/24
41	WCDMA850	Left Cheek Middle	2019/03/22
42	WCDMA850	Body Back, Middle ,10mm	2019/03/22
43	WCDMA1900	Right Cheek Middle	2019/03/24
44	WCDMA1900	Body Back, Middle ,10mm	2019/03/24
45	WCDMA1700	Right Cheek Middle	2019/03/23
46	WCDMA1700	Body Back, Middle ,10mm	2019/03/23
47	CDMA 0	Right Cheek Middle	2019/03/22
48	CDMA 0	Body Back, Middle ,10mm	2019/03/22
49	CDMA 1	Right Cheek Middle	2019/03/23
50	CDMA 1	Body Back, Middle ,10mm	2019/03/23
51	LTE Band2	Right Cheek Middle	2019/03/24
52	LTE Band2	Body Face, Middle ,10mm	2019/03/24
53	LTE Band4	Left Cheek Middle	2019/03/23
54	LTE Band4	Body Back, Middle ,10mm	2019/03/23
55	LTE Band5	Right Cheek Middle	2019/03/22
56	LTE Band5	Body Back, Middle ,10mm	2019/03/22
57	LTE Band7	Left Cheek Middle	2019/03/19
58	LTE Band7	Body Back, Middle ,10mm	2019/03/19
59	LTE Band12	Left Cheek Middle	2019/03/21
60	LTE Band12	Body Back, Middle ,10mm	2019/03/21
61	LTE Band17	Right Cheek Middle	2019/03/21
62	LTE Band17	Body Back, Middle ,10mm	2019/03/21



63	LTE Band25	Right Cheek Middle	2019/03/24
64	LTE Band25	Body Back, Middle ,10mm	2019/03/24
65	LTE Band26	Left Cheek Middle	2019/03/22
66	LTE Band26	Body Back, Middle ,10mm	2019/03/22
67	LTE Band30	Right Cheek Middle	2019/03/19
68	LTE Band30	Body Back, Middle ,10mm	2019/03/19
69	LTE Band41	Left Cheek Middle	2019/03/19
70	LTE Band41	Body Back, Middle ,10mm	2019/03/19
71	LTE Band66	Right Cheek Middle	2019/03/19
72	LTE Band66	Body Back, Middle ,10mm	2019/03/19
73	Wi-Fi 802.11b-0+1	Left Cheek Middle	2019/03/19
74	Wi-Fi 802.11b-0+1	Body Back, Middle ,10mm	2019/03/19
75	Wi-Fi 802.11AC VHT40-	Body Back, Middle ,10mm	2019/03/25
76	Wi-Fi 802.11AC N-VHT40-0	Right Cheek Middle	2019/03/25
77	BT 3.0 GFSK	Right Cheek, High	2019/03/19
78	BT 3.0 GFSK	Body Back, Middle ,10mm	2019/03/19

**Plot 1: GSM850, Right Cheek, Middle**

Type: Phone measurement

Date of measurement: 03/16/2019

Measurement duration: 22 minutes 31 seconds

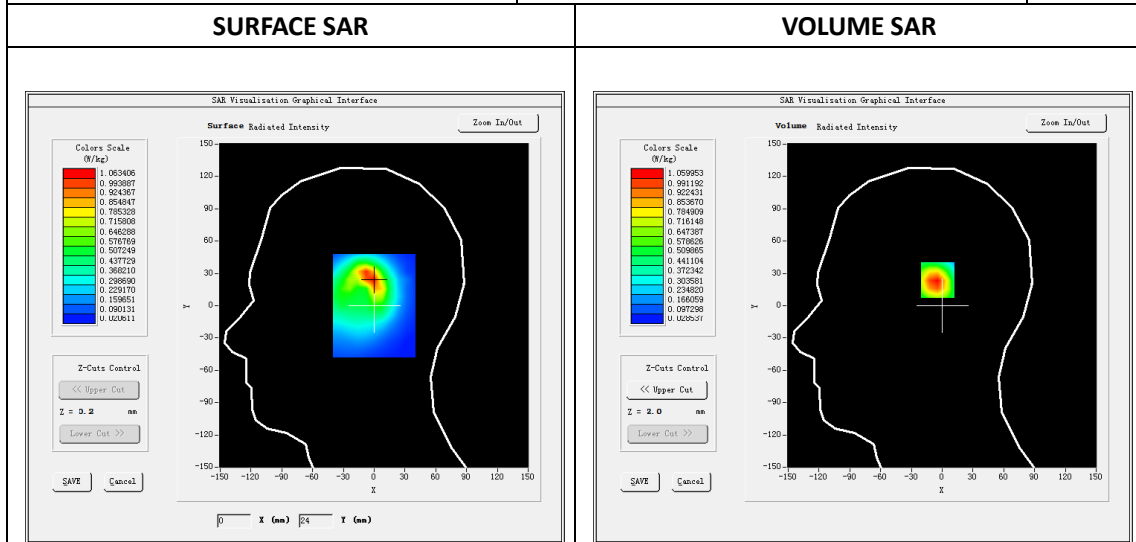
Mobile Phone IMEI number: --

**A. Experimental conditions.**

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

**B. SAR Measurement Results**

<b>E-Field Probe</b>	SATIMO SN_27/15_EPG0261
<b>Frequency (MHz)</b>	836.6
<b>Relative permittivity (real part)</b>	41.32
<b>Relative permittivity (imaginary part)</b>	18.42
<b>Conductivity (S/m)</b>	0.87
<b>Variation (%)</b>	-0.91
<b>ConvF:</b>	1.92

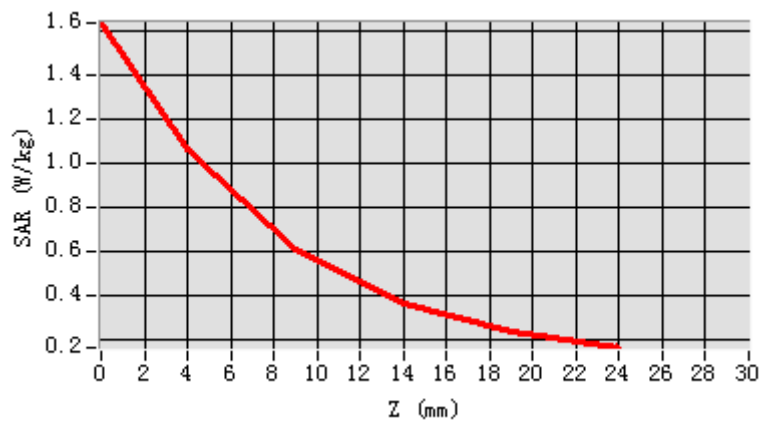


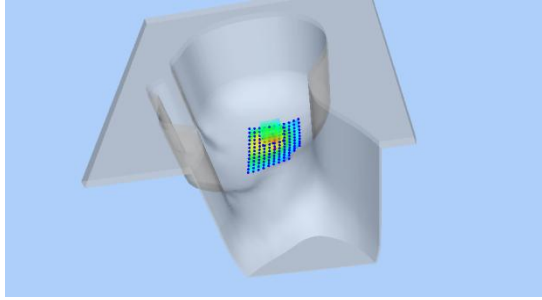
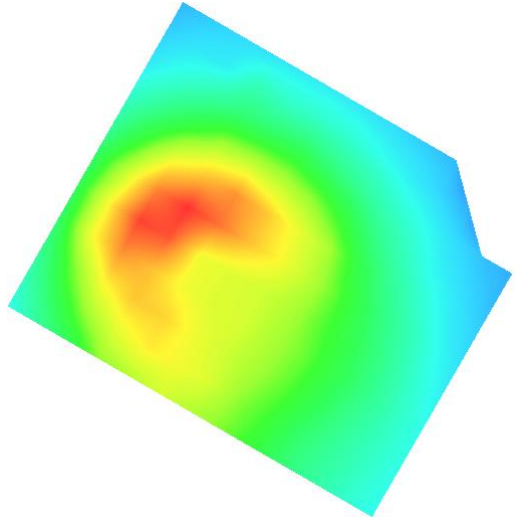
Maximum location: X=-2.00, Y=25.00

SAR Peak: 1.66W/kg

<b>SAR 10g (W/Kg)</b>	0.562751
<b>SAR 1g (W/Kg)</b>	1.026057

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.6356	1.0600	0.6103	0.3649	0.2381



3D screen shot	Hot spot position
	

**Plot 2: GPRS850, Back, Middle,10mm**

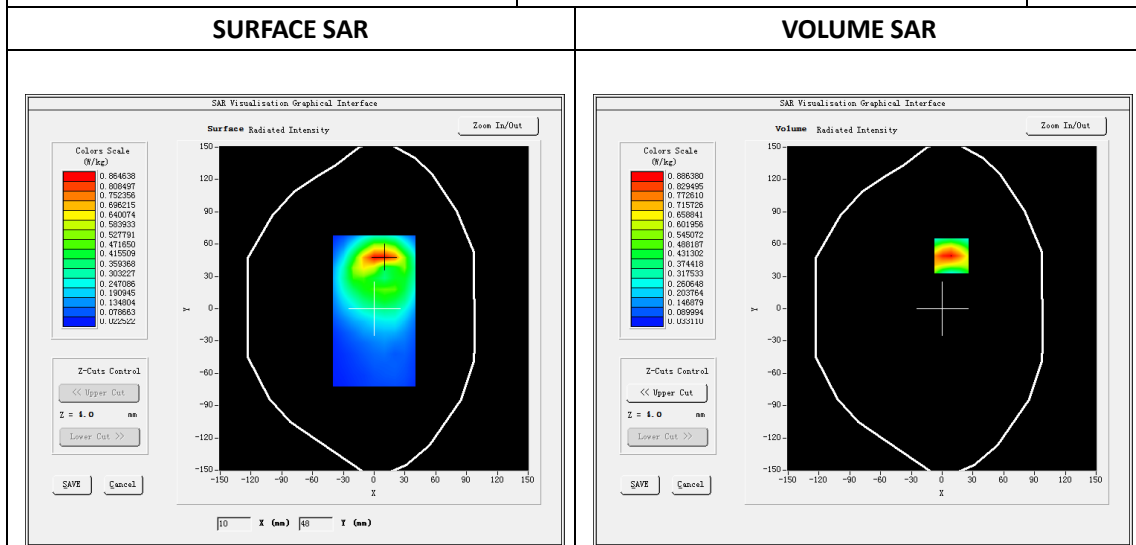
Type: Phone measurement  
 Date of measurement: 03/16/2019  
 Measurement duration: 22 minutes 31 seconds  
 Mobile Phone IMEI number: --

**A. Experimental conditions.**

<b>Area Scan</b>	dx=8mm dy=8mm
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Back
<b>Band</b>	GSPRS850_4Tx
<b>Channels</b>	190
<b>Signal</b>	GPRS(Duty cycle: 1:2)

**B. SAR Measurement Results**

<b>E-Field Probe</b>	SATIMO SN_27/15_EPG0261
<b>Frequency (MHz)</b>	836.6
<b>Relative permittivity (real part)</b>	55.23
<b>Relative permittivity (imaginary part)</b>	21.12
<b>Conductivity (S/m)</b>	0.98
<b>Variation (%)</b>	-2.85
<b>ConvF:</b>	1.99

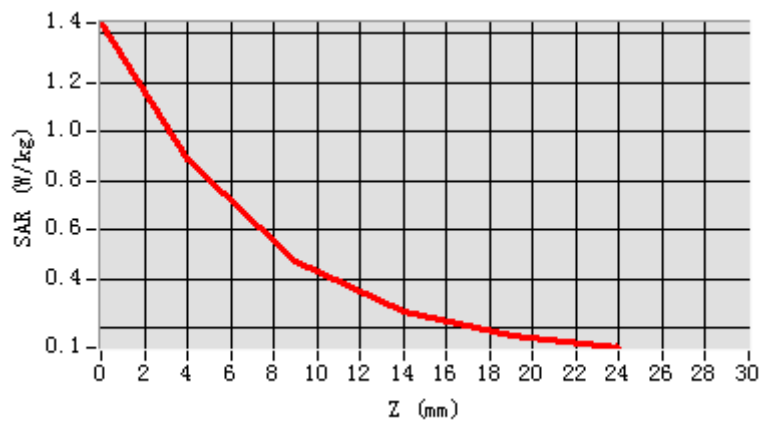


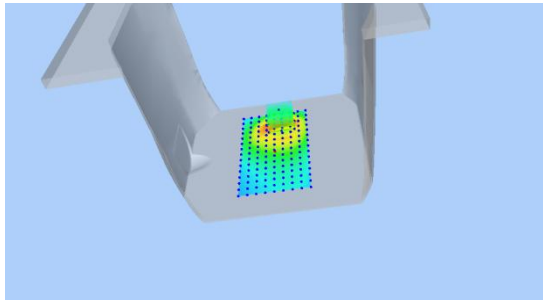
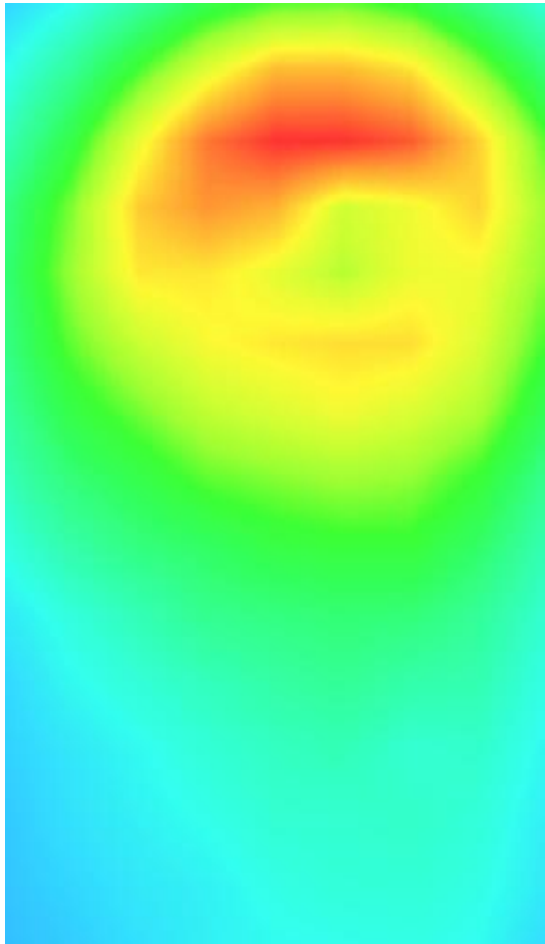
**Maximum location: X=9.00, Y=49.00**

**SAR Peak: 1.45 W/kg**

<b>SAR 10g (W/Kg)</b>	0.451981
<b>SAR 1g (W/Kg)</b>	0.747595

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.4409	0.8864	0.4751	0.2683	0.1731



3D screen shot	Hot spot position
	



**Plot3: GSM1900, Right Cheek Middle**

Type: Phone measurement

Date of measurement: 03/18/2019

Measurement duration: 22 minutes 24 seconds

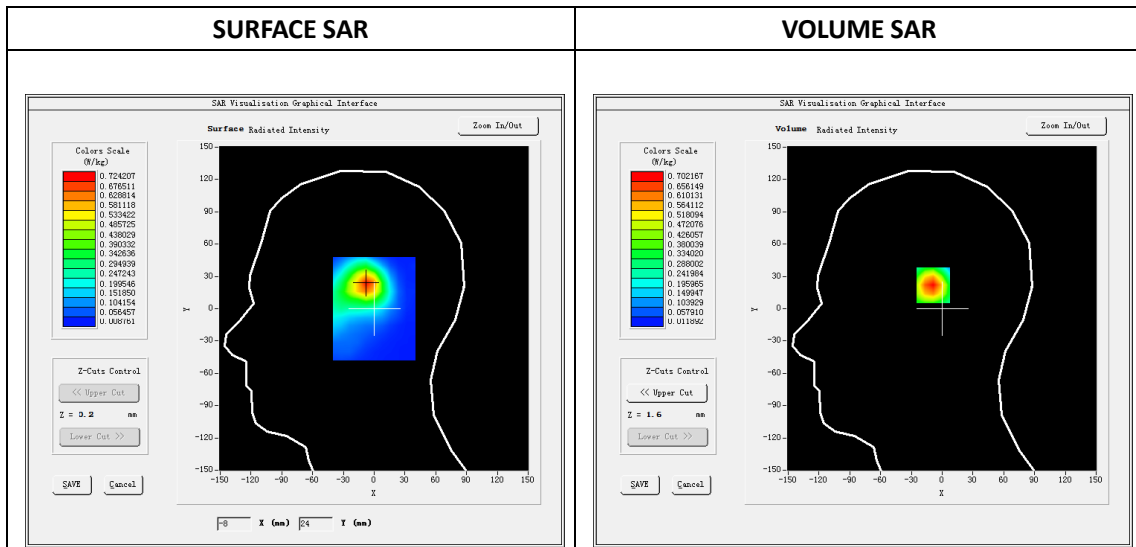
Mobile Phone IMEI number: --

**A. Experimental conditions.**

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

**B. SAR Measurement Results**

<b>E-Field Probe</b>	SATIMO SN_27/15_EPG0261
<b>Frequency (MHz)</b>	1880
<b>Relative permittivity (real part)</b>	40.60
<b>Relative permittivity (imaginary part)</b>	13.16
<b>Conductivity (S/m)</b>	1.39
<b>Variation (%)</b>	-1.59
<b>ConvF:</b>	2.34

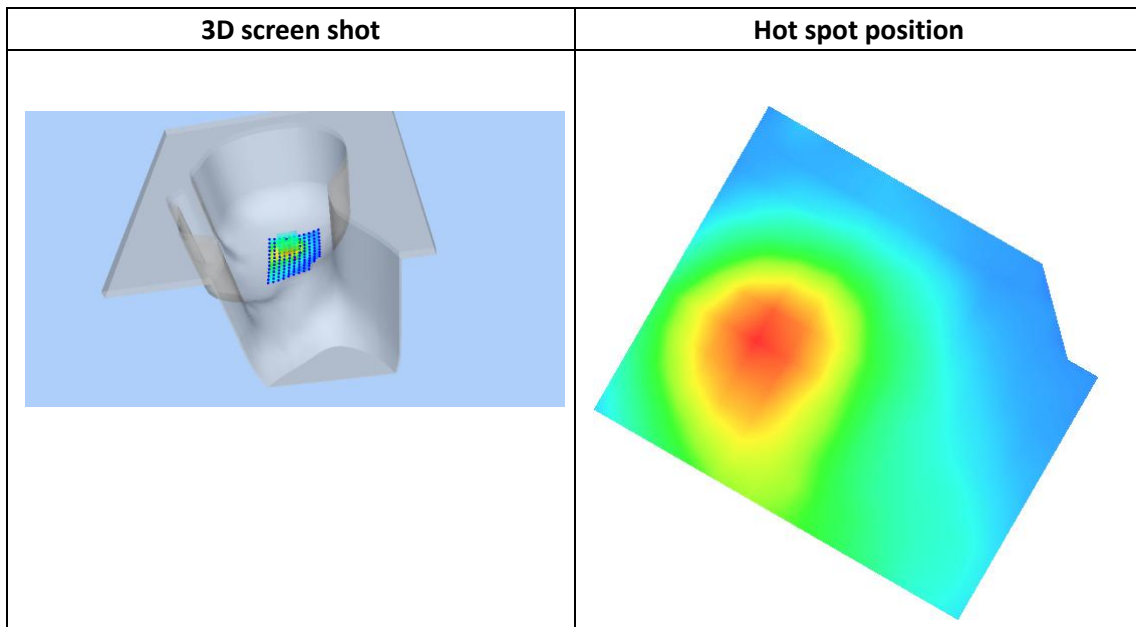
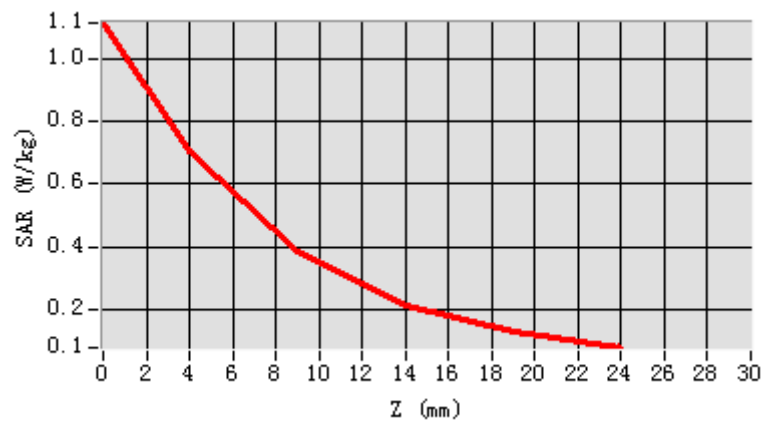


Maximum location: X=-7.00, Y=23.00

SAR Peak: 1.12 W/kg

SAR 10g (W/Kg)	0.352731
SAR 1g (W/Kg)	0.667726

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.1141	0.7022	0.3851	0.2150	0.1287



**Plot4: GPRS1900, Back Middle ,10mm**

Type: Phone measurement

Date of measurement: 03/18/2019

Measurement duration: 22 minutes 23 seconds

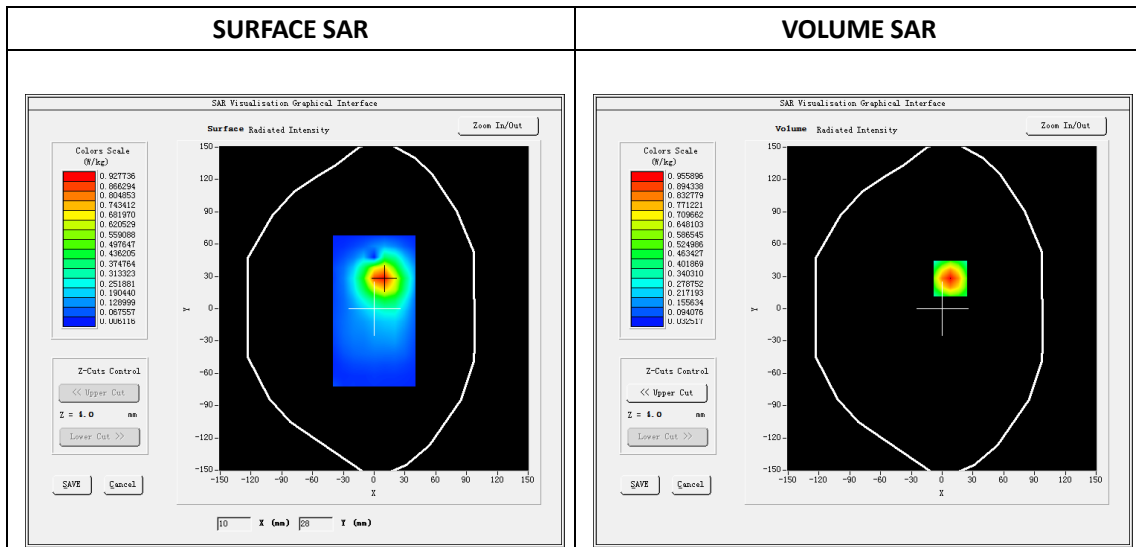
Mobile Phone IMEI number: --

**A. Experimental conditions.**

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

**B. SAR Measurement Results**

<b>E-Field Probe</b>	SATIMO SN_27/15_EPG0261
<b>Frequency (MHz)</b>	1880
<b>Relative permittivity (real part)</b>	53.42
<b>Relative permittivity (imaginary part)</b>	14.30
<b>Conductivity (S/m)</b>	1.51
<b>Variation (%)</b>	-3.59
<b>ConvF:</b>	2.39

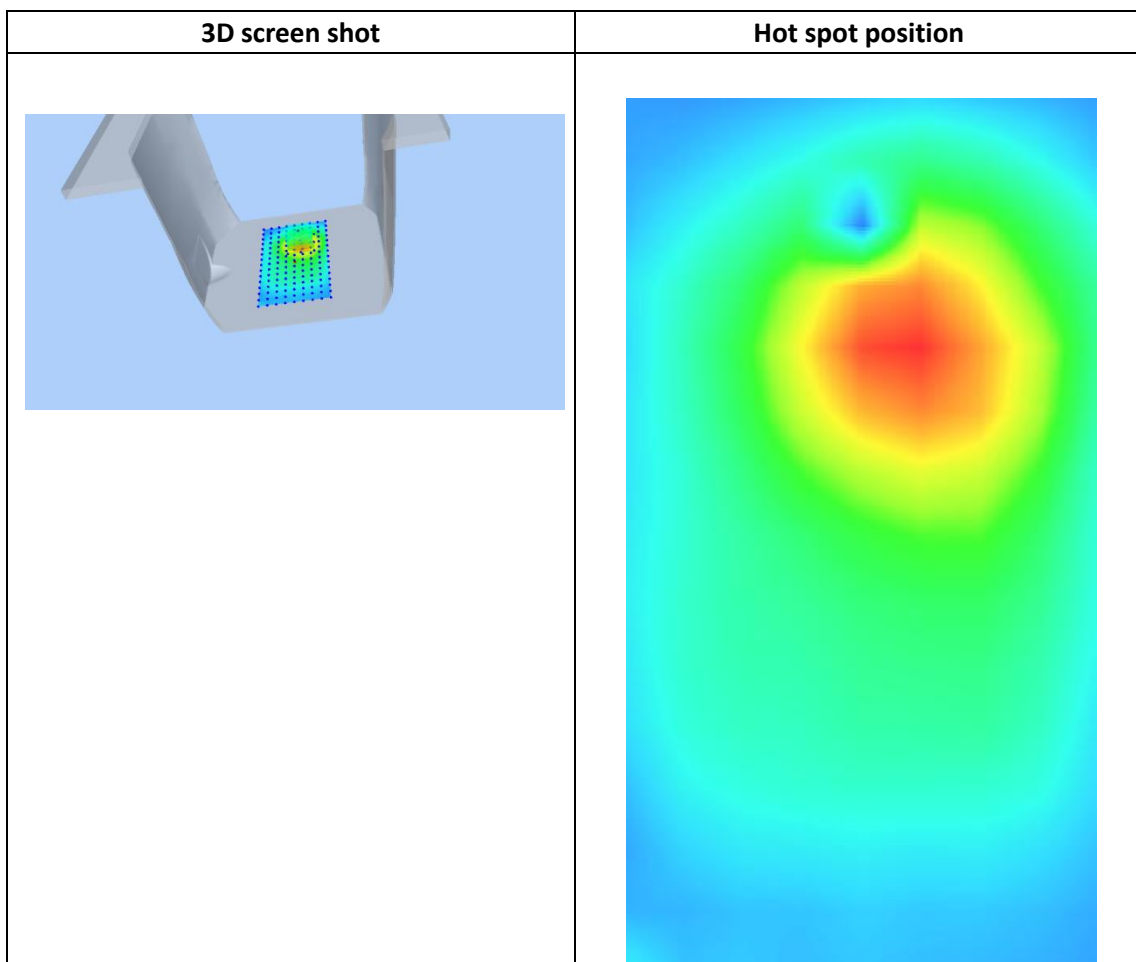
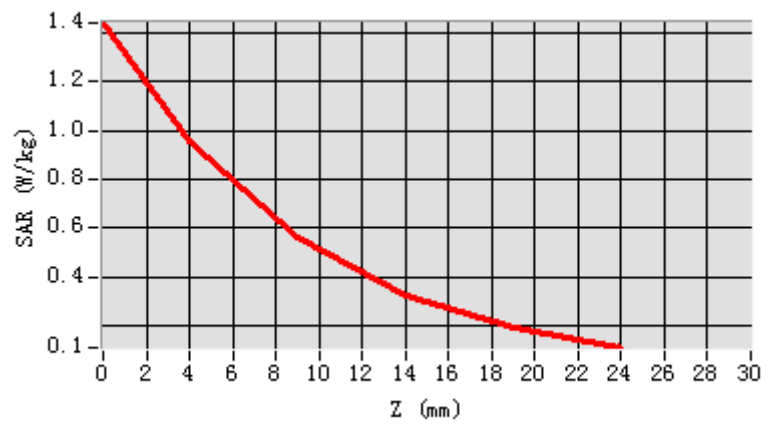


Maximum location: X=8.00, Y=28.00

SAR Peak: 1.44W/kg

SAR 10g (W/Kg)	0.393737
SAR 1g (W/Kg)	0.705734

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.4420	0.9559	0.5587	0.3256	0.1932



## Plot 5: WCDMA850, Right Cheek, Middle

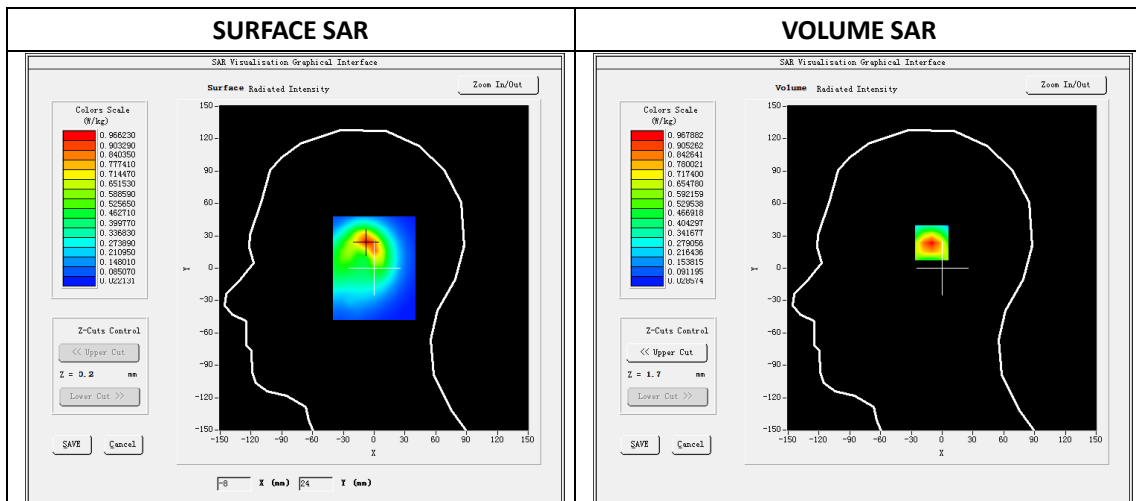
Type: Phone measurement  
 Date of measurement: 03/16/2019  
 Measurement duration: 22 minutes 25 seconds  
 Mobile Phone IMEI number: --

**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_27/15_EPG0261
Frequency (MHz)	836.6
Relative permittivity (real part)	41.32
Relative permittivity (imaginary part)	18.42
Conductivity (S/m)	0.87
Variation (%)	-2.88
ConvF:	1.92

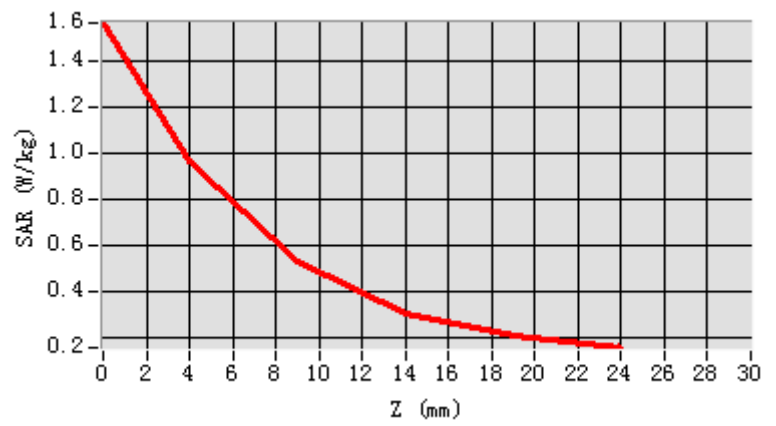


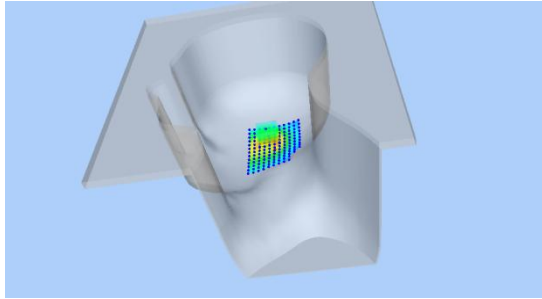
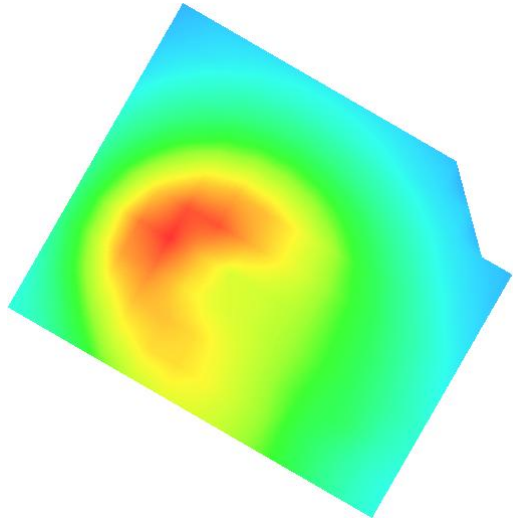
Maximum location: X=-8.00, Y=25.00

SAR Peak: 1.57W/kg

SAR 10g (W/Kg)	0.491288
SAR 1g (W/Kg)	0.920404

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.5649	0.9679	0.5263	0.3062	0.2072



3D screen shot	Hot spot position
	

**Plot 6: WCDMA850, BACK, Middle,10mm**

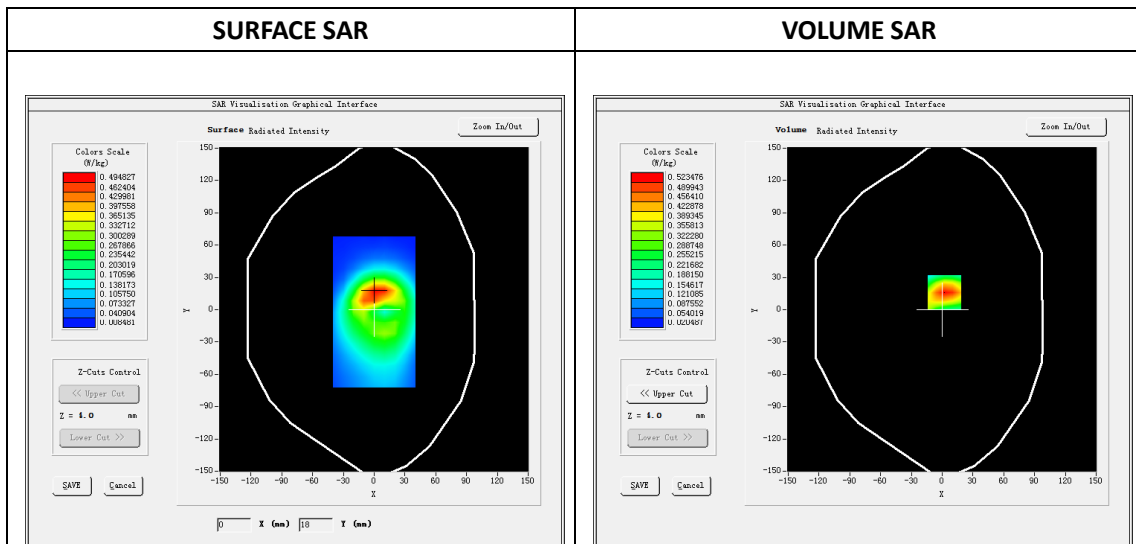
Type: Phone measurement  
 Date of measurement: 03/16/2019  
 Measurement duration: 22 minutes 17 seconds  
 Mobile Phone IMEI number: --

**A. Experimental conditions.**

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

**B. SAR Measurement Results**

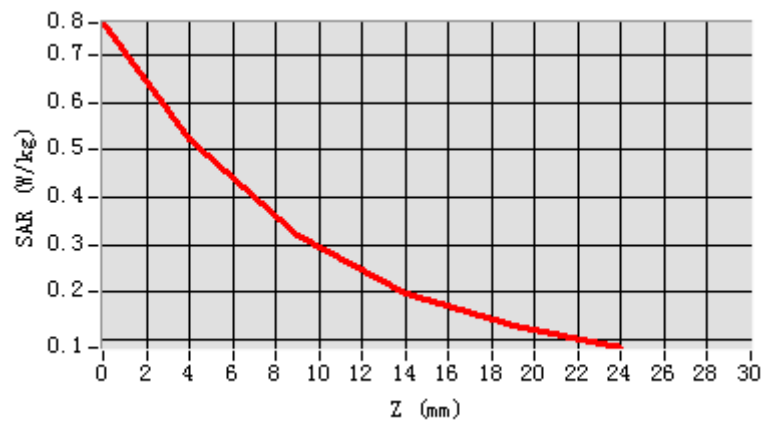
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.6
Relative permittivity (real part)	55.23
Relative permittivity (imaginary part)	2112
Conductivity (S/m)	0.98
Variation (%)	-2.49
ConvF:	1.99

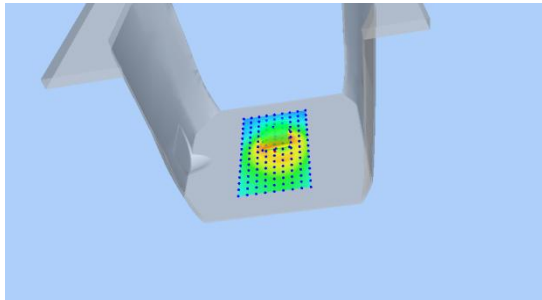
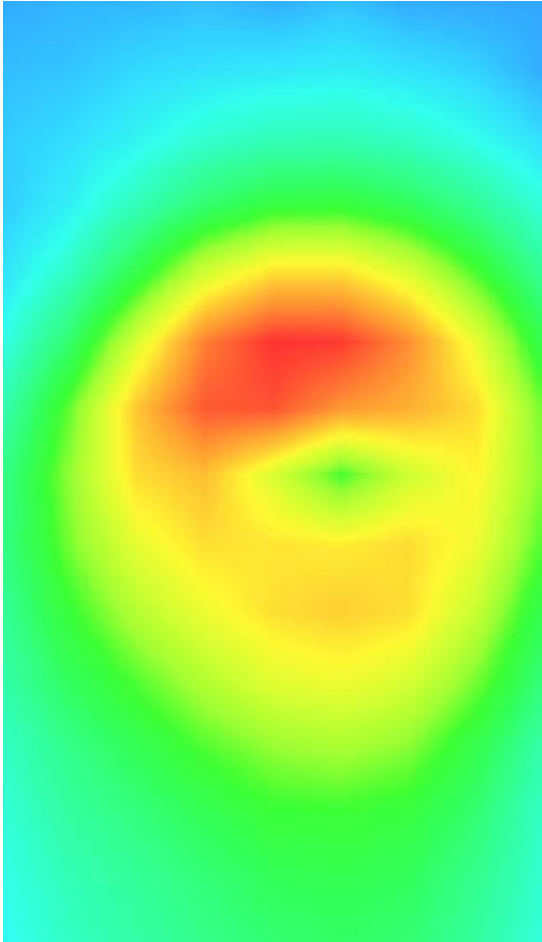


**Maximum location: X=2.00, Y=16.00**

<b>SAR 10g (W/Kg)</b>	0.281980
<b>SAR 1g (W/Kg)</b>	0.498126

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.7691	0.5235	0.3201	0.1988	0.1285



3D screen shot	Hot spot position
	



**Plot 7: WCDMA1900, Right Cheek, Middle,10mm**

Type: Phone measurement

Date of measurement: 03/18/2019

Measurement duration: 22 minutes 18 seconds

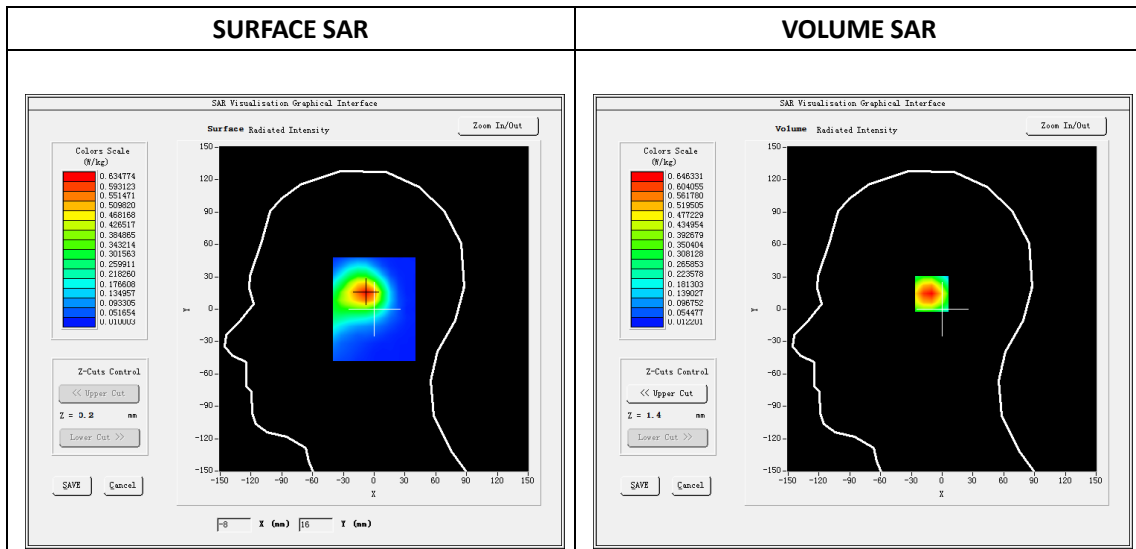
Mobile Phone IMEI number: --

**A. Experimental conditions.**

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

**B. SAR Measurement Results**

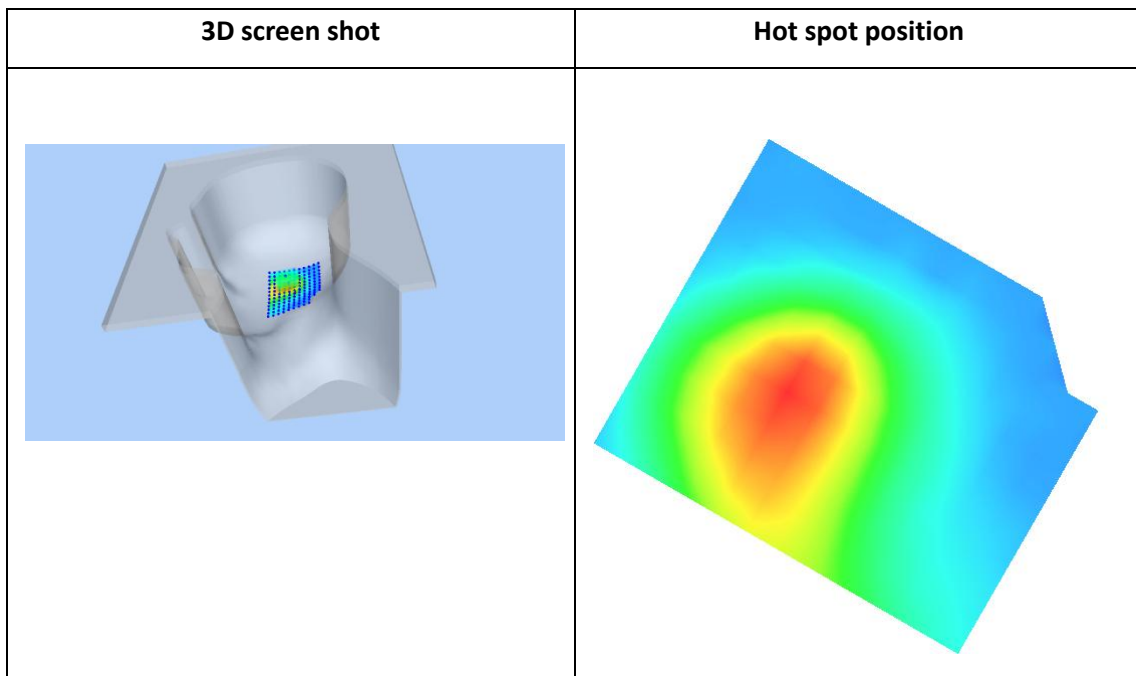
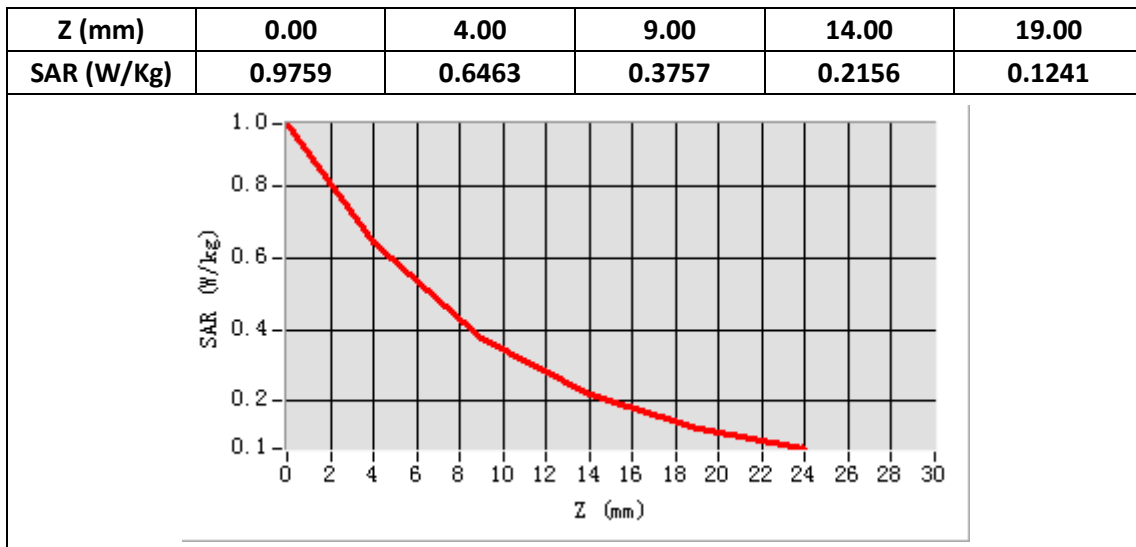
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	40.60
Relative permittivity (imaginary part)	13.16
Conductivity (S/m)	1.39
Variation (%)	-2.88
ConvF:	2.34



Maximum location: X=-8.00, Y=15.00

SAR Peak: 0.99W/kg

SAR 10g (W/Kg)	0.333327
SAR 1g (W/Kg)	0.615406



**Plot 8: WCDMA1900 Back, Middle,10mm**

Type: Phone measurement

Date of measurement: 03/18/2019

Measurement duration: 22 minutes 51 seconds

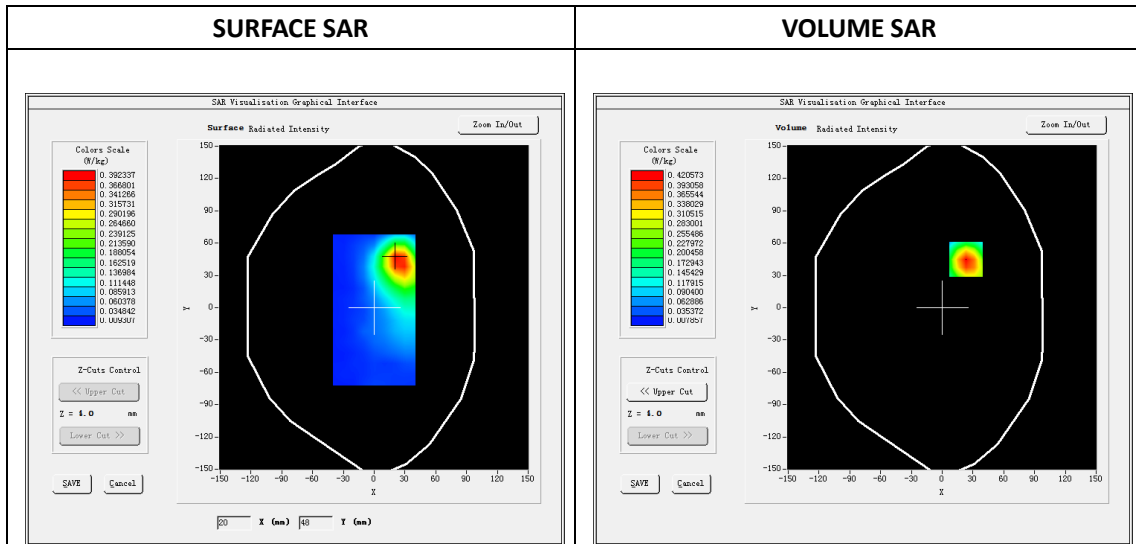
Mobile Phone IMEI number: --

**A. Experimental conditions.**

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

**B. SAR Measurement Results**

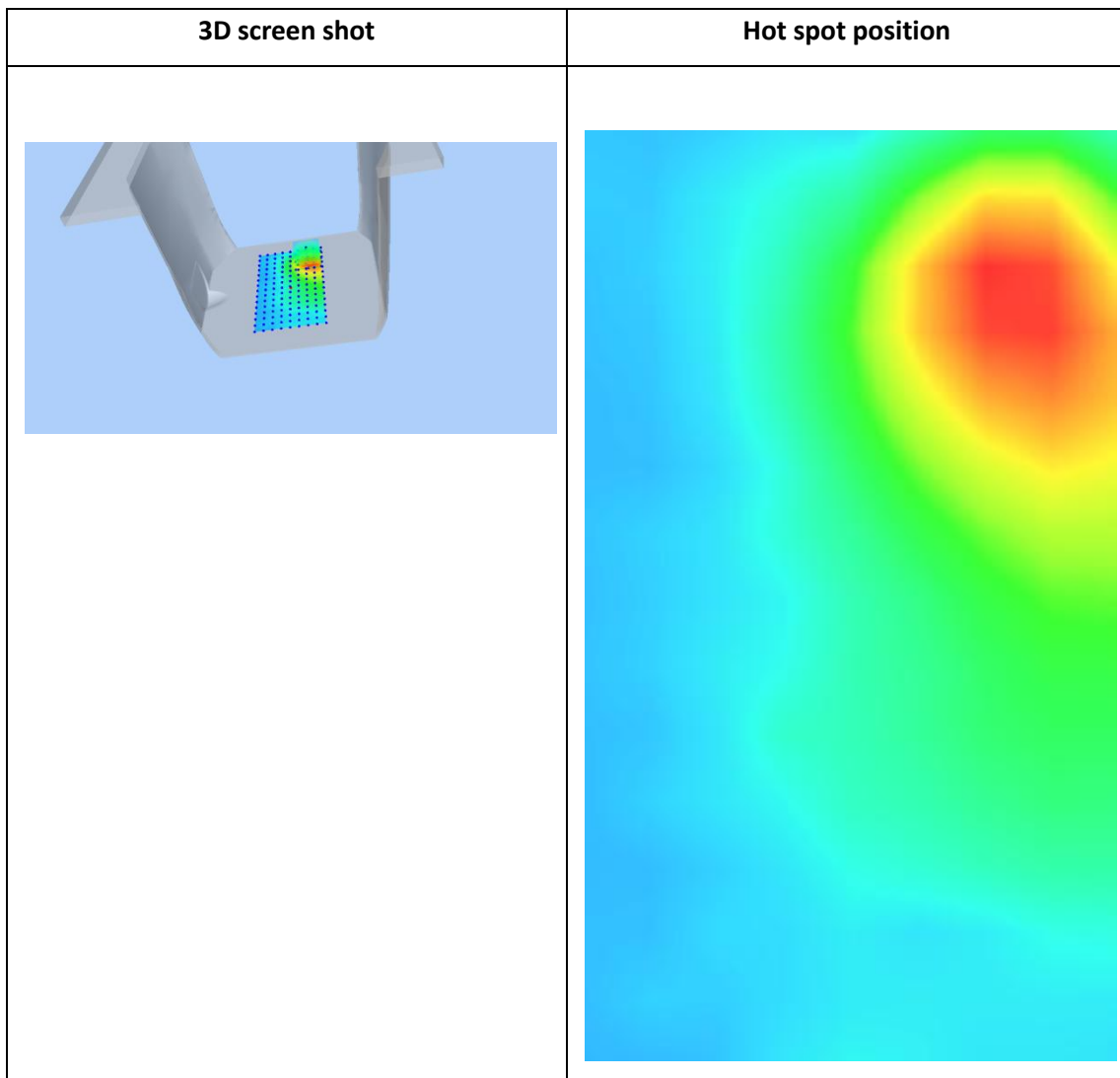
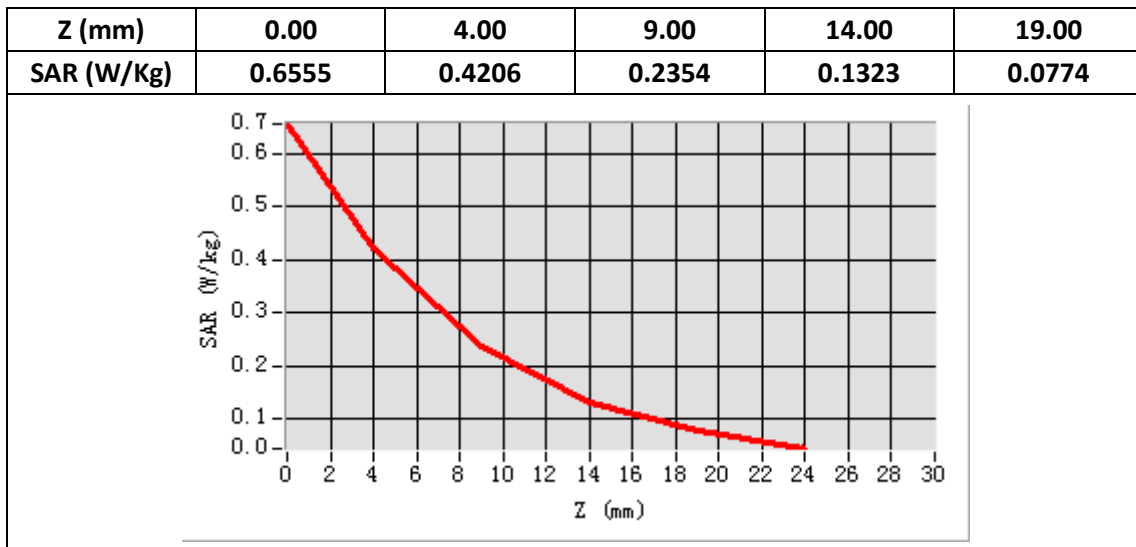
<b>E-Field Probe</b>	SATIMO SN_27/15_EPG0261
<b>Frequency (MHz)</b>	1880
<b>Relative permittivity (real part)</b>	53.42
<b>Relative permittivity (imaginary part)</b>	14.30
<b>Conductivity (S/m)</b>	1.51
<b>Variation (%)</b>	-1.83
<b>ConvF:</b>	6.10



**Maximum location: X=23.00, Y=45.00**

**SAR Peak: 0.66W/kg**

<b>SAR 10g (W/Kg)</b>	0.214198
<b>SAR 1g (W/Kg)</b>	0.402375



**Plot 9: WCDMA1700, Right Cheek, Middle,10mm**

Type: Phone measurement

Date of measurement: 03/17/2019

Measurement duration: 22 minutes 21 seconds

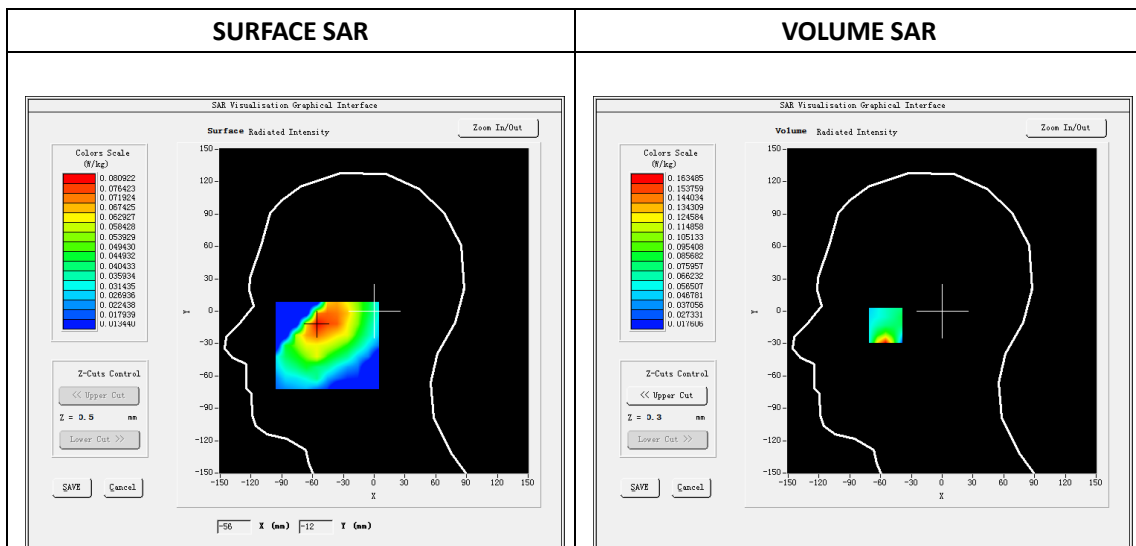
Mobile Phone IMEI number: --

**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	Band2_WCDMA1700
Channels	1413
Signal	WCDMA (Duty cycle: 1:1)

**B. SAR Measurement Results**

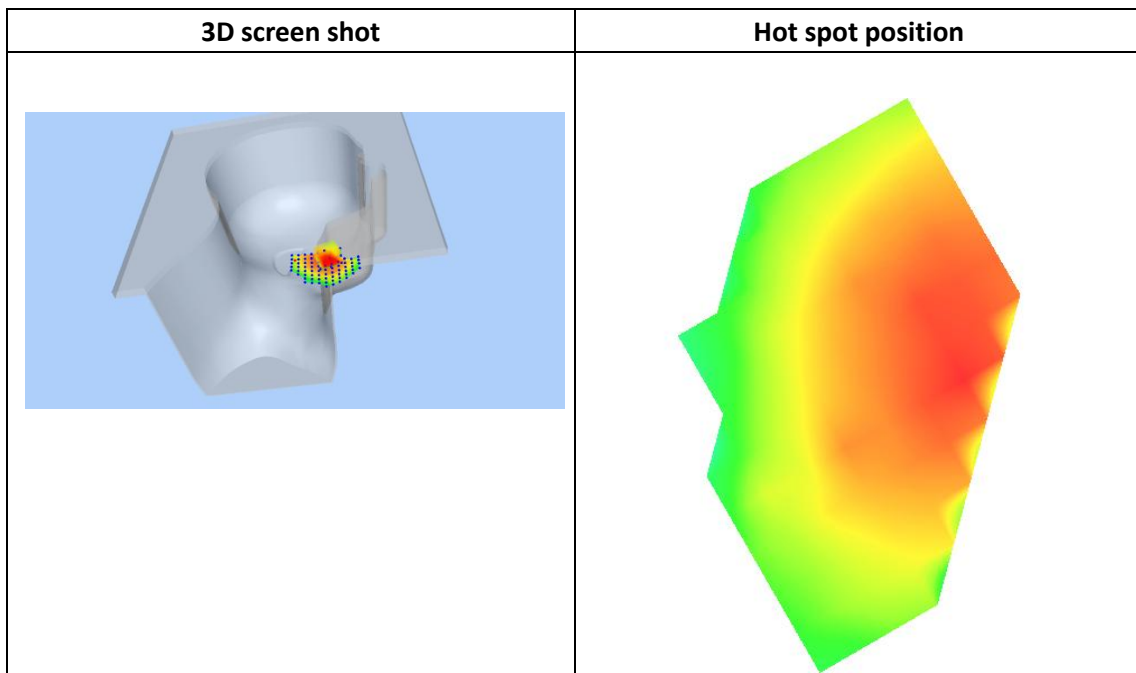
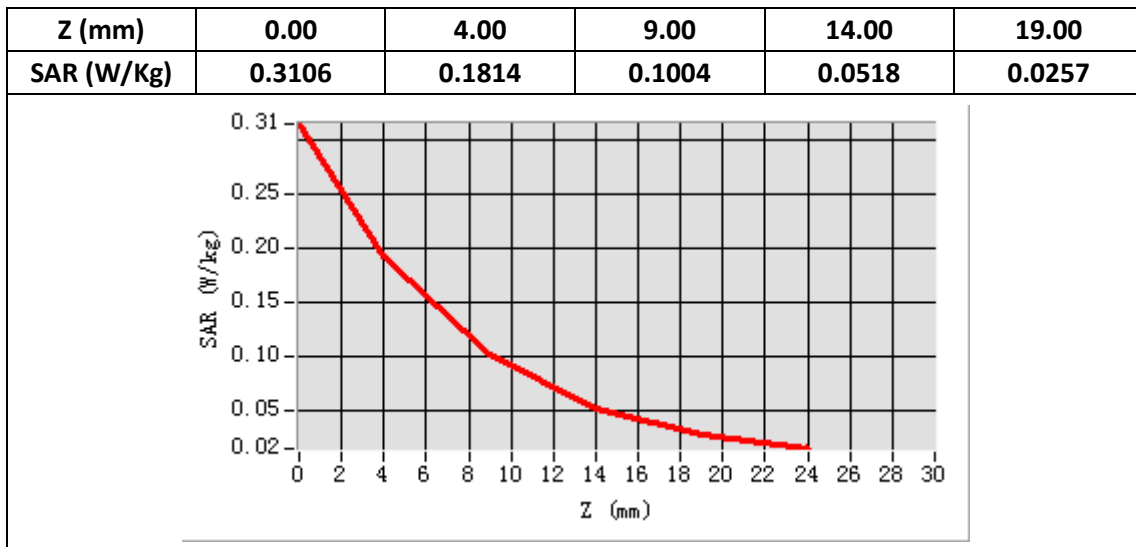
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.6
Relative permittivity (real part)	40.34
Relative permittivity (imaginary part)	13.10
Conductivity (S/m)	1.31
Variation (%)	-2.98
ConvF:	2.14



Maximum location: X=-55.00, Y=-12.00

SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.084045
SAR 1g (W/Kg)	0.135301



**Plot 10: WCDMA1700,Back, Middle,10mm**

Type: Phone measurement

Date of measurement: 03/17/2019

Measurement duration: 22 minutes 35 seconds

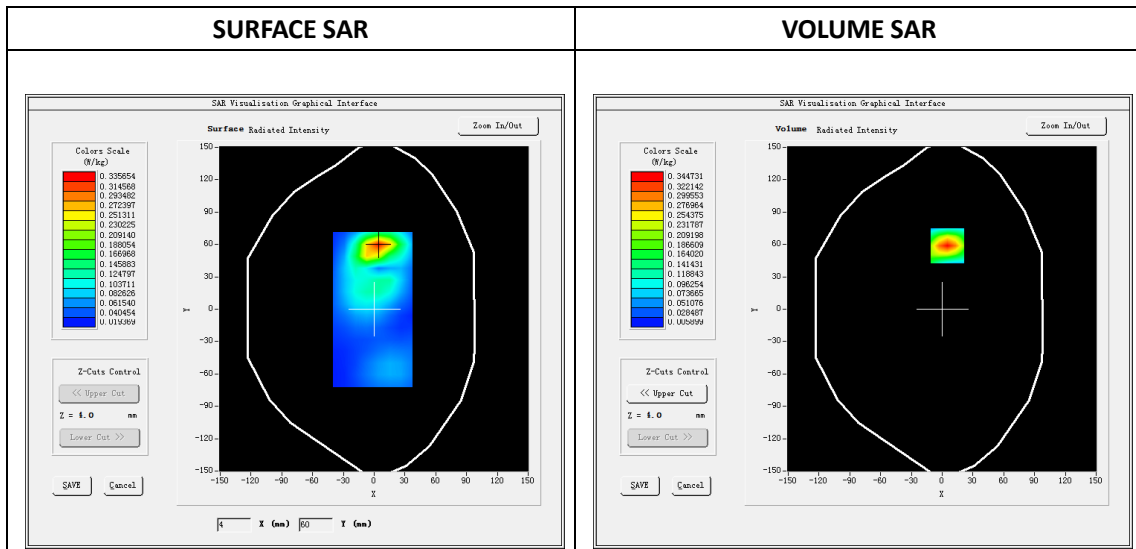
Mobile Phone IMEI number: --

**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)	53.39
Relative permittivity (imaginary part)	15.20
Conductivity (S/m)	1.52
Variation (%)	-0.96
ConvF:	2.22

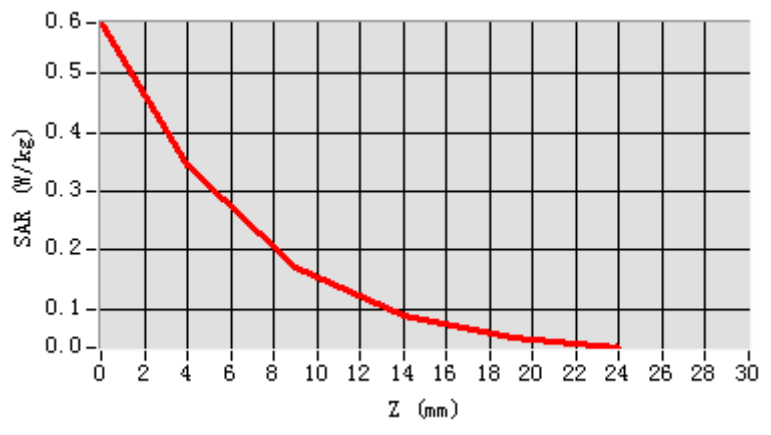


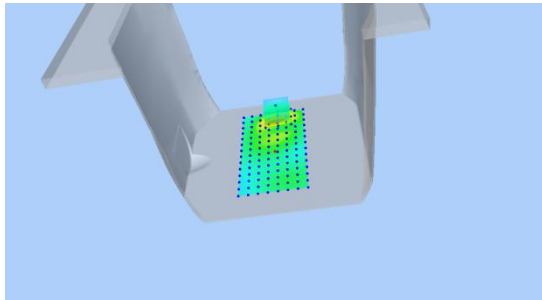
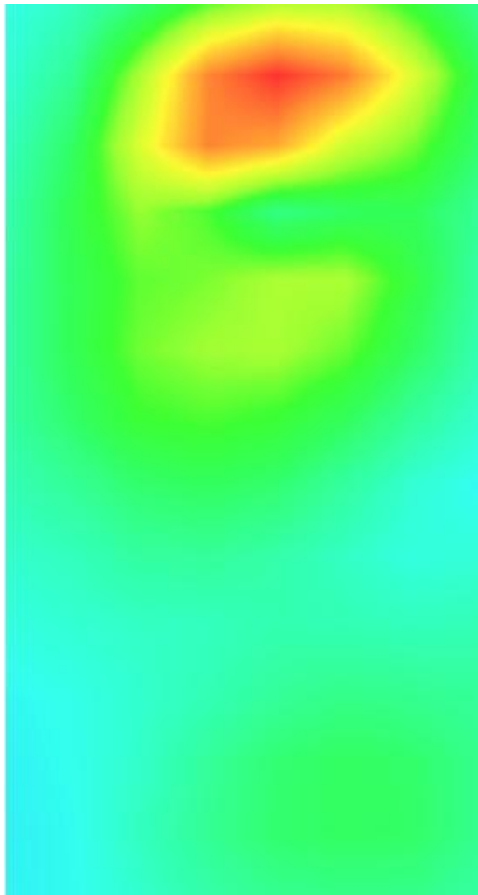
Maximum location: X=5.00, Y=59.00

SAR Peak: 0.59W/kg

SAR 10g (W/Kg)	0.074549
SAR 1g (W/Kg)	0.190087

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5865	0.3447	0.1713	0.0882	0.0523



3D screen shot	Hot spot position
	



**Plot 11: CDMA BC0, Right Cheek, Middle**

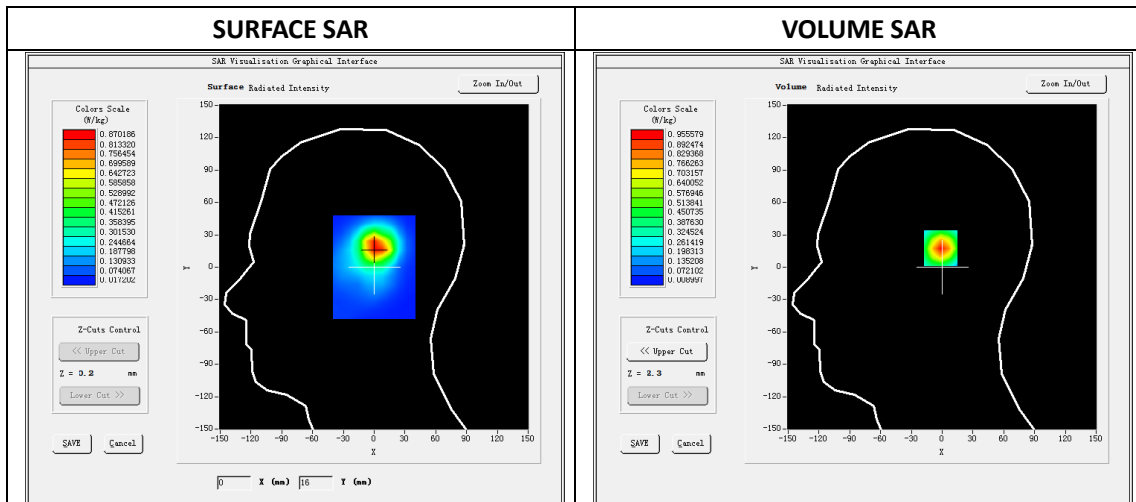
Type: Phone measurement  
 Date of measurement: 03/16/2019  
 Measurement duration: 22 minutes 34 seconds  
 Mobile Phone IMEI number: --

**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	CDMA 0
Channels	384
Signal	CDMA

**B. SAR Measurement Results**

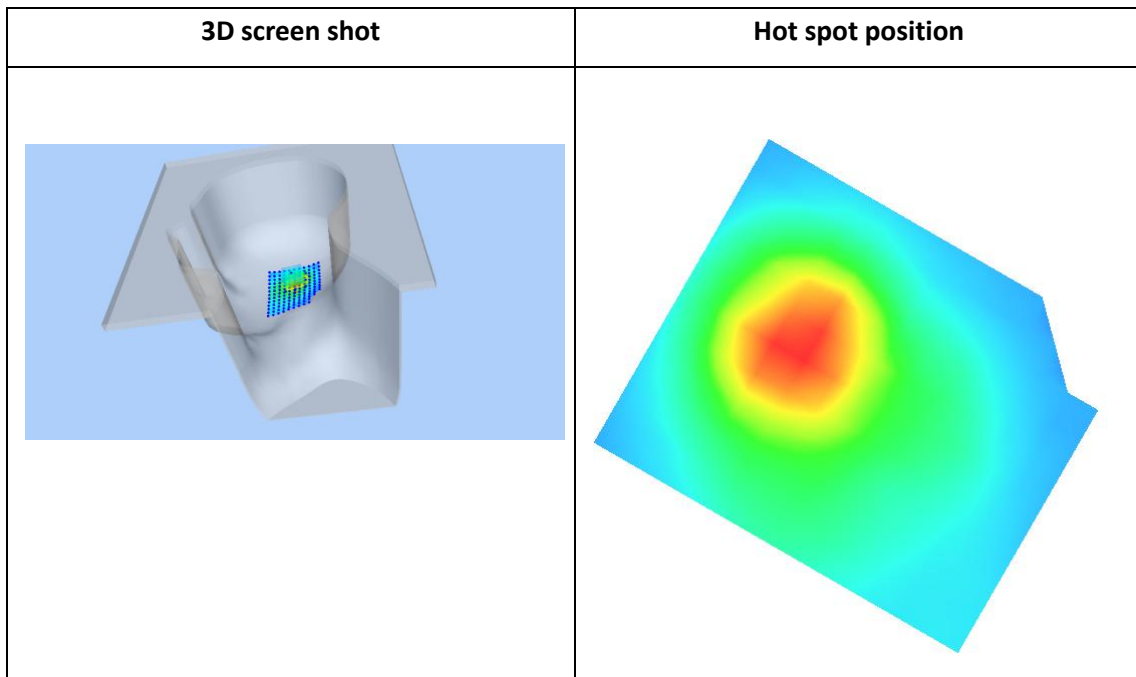
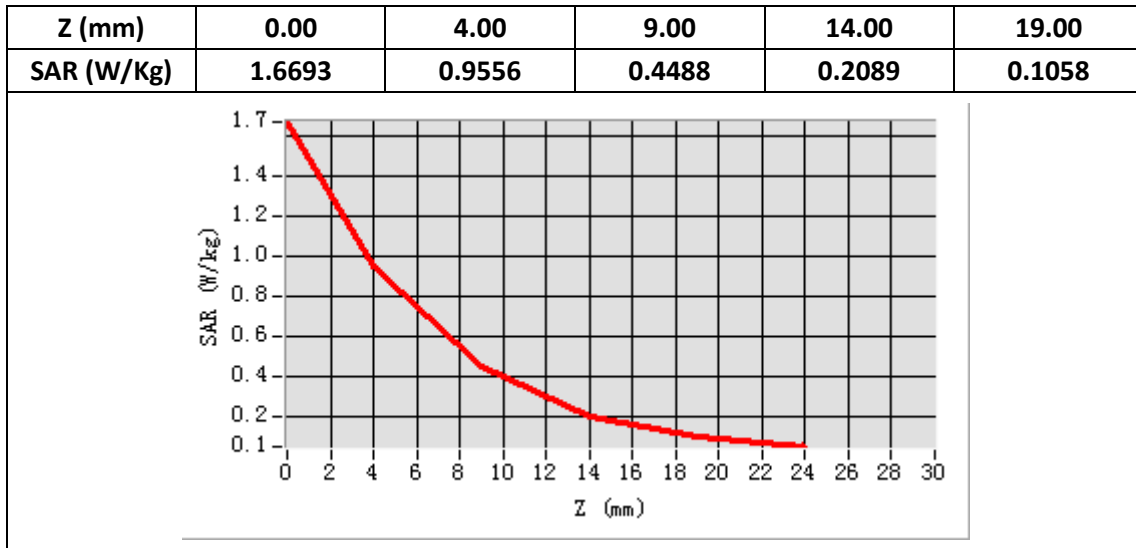
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	824.7
Relative permittivity (real part)	41.32
Relative permittivity (imaginary part)	18.42
Conductivity (S/m)	0.87
Variation (%)	-0.08
ConvF:	1.92



**Maximum location: X=2.00, Y=18.00**

**SAR Peak: 1.67W/kg**

<b>SAR 10g (W/Kg)</b>	0.425662
<b>SAR 1g (W/Kg)</b>	0.905065



**Plot 12: CDMA BC0-,Back ,Middle, 10mm**

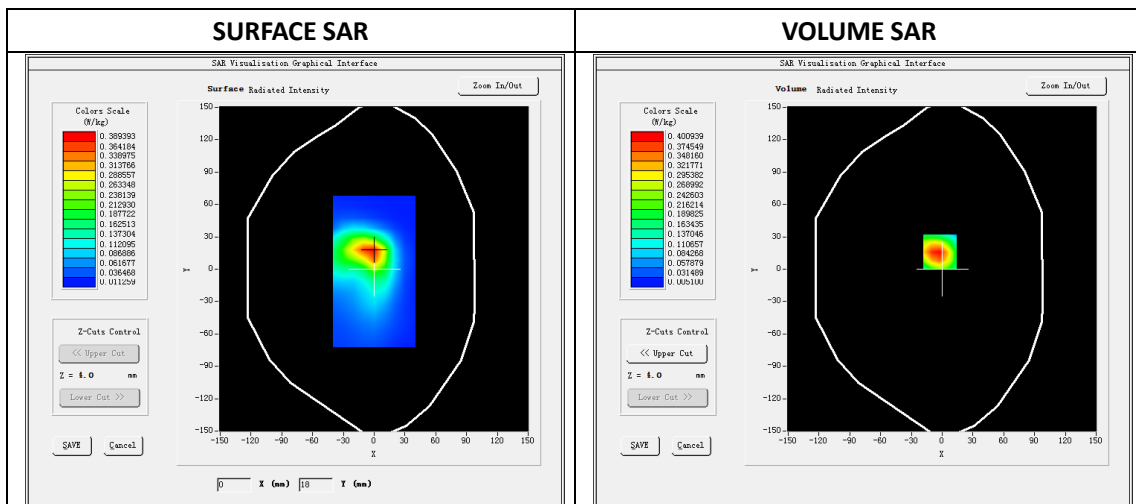
Type: Phone measurement  
 Date of measurement: 03/16/2019  
 Measurement duration: 22 minutes 17 seconds  
 Mobile Phone IMEI number: --

**A. Experimental conditions.**

Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Middle
Band	CAMA BC0
Channels	384
Signal	CDMA

**B. SAR Measurement Results**

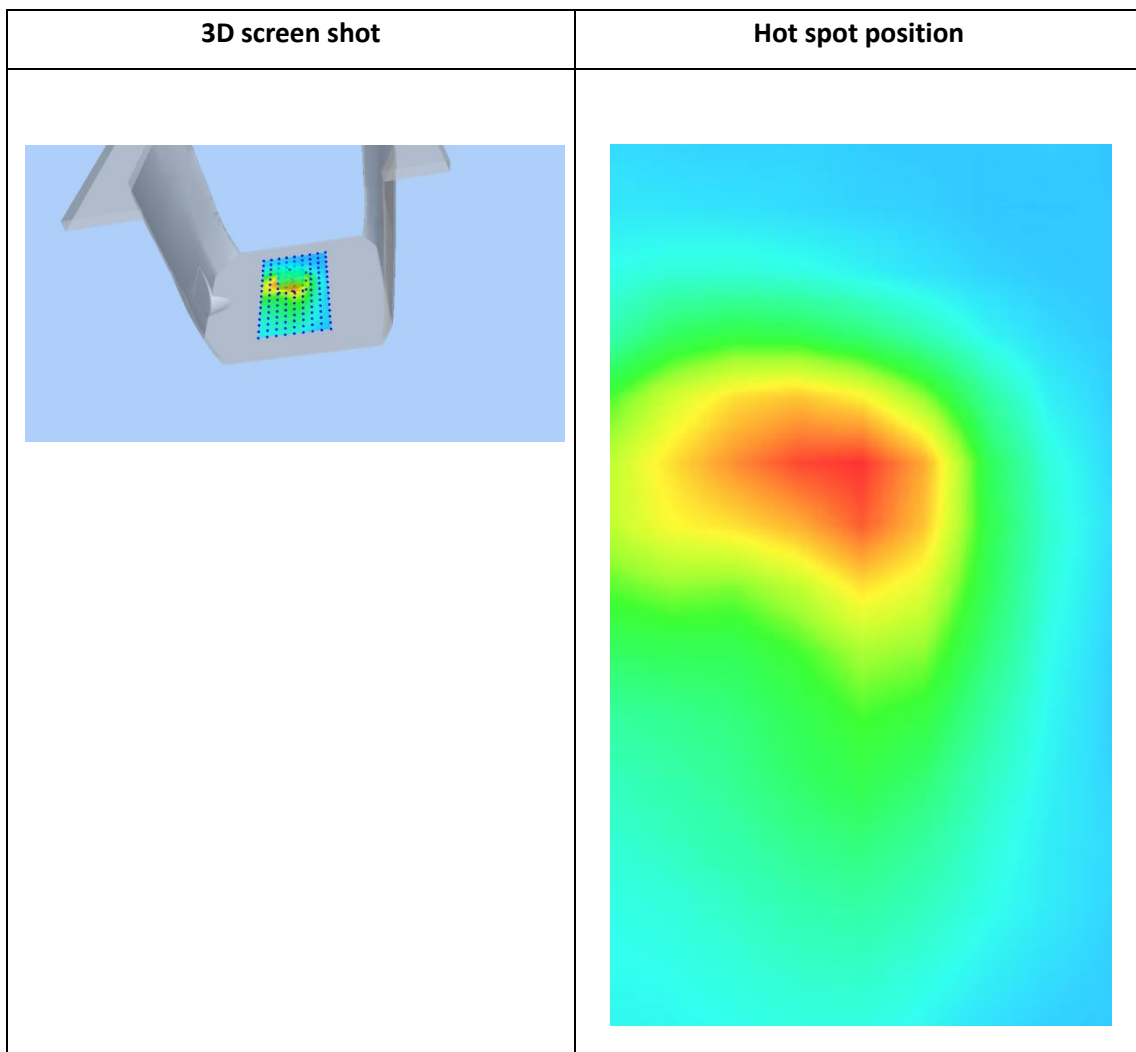
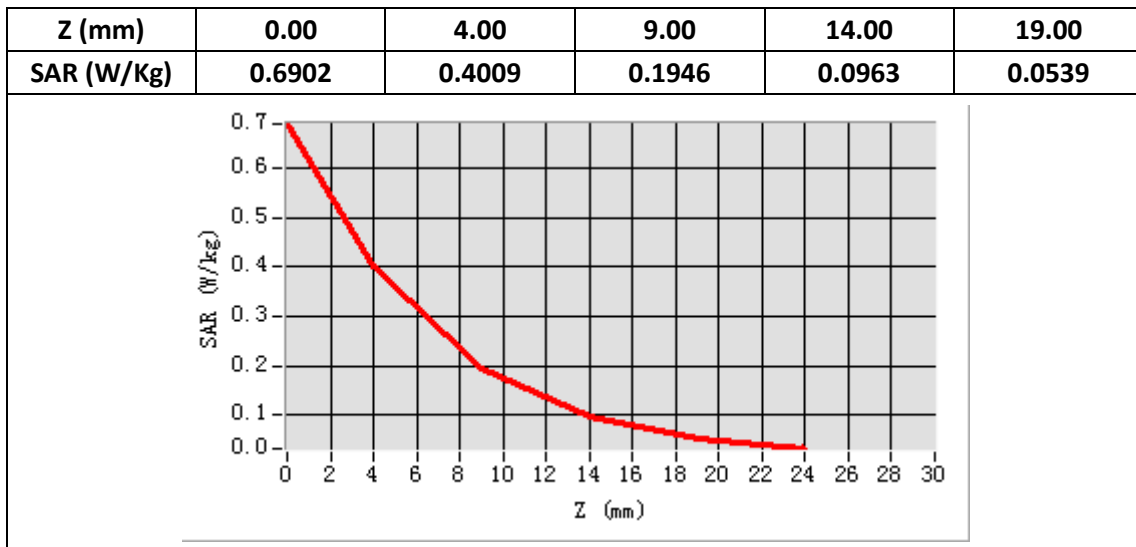
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.5
Relative permittivity (real part)	55.23
Relative permittivity (imaginary part)	21.12
Conductivity (S/m)	0.98
Variation (%)	-3.46
ConvF:	2.11



**Maximum location: X=-2.00, Y=16.00**

**SAR Peak: 0.70W/kg**

<b>SAR 10g (W/Kg)</b>	0.190917
<b>SAR 1g (W/Kg)</b>	0.382794



**Plot 13: CDMA BC1, Right Cheek, Middle**

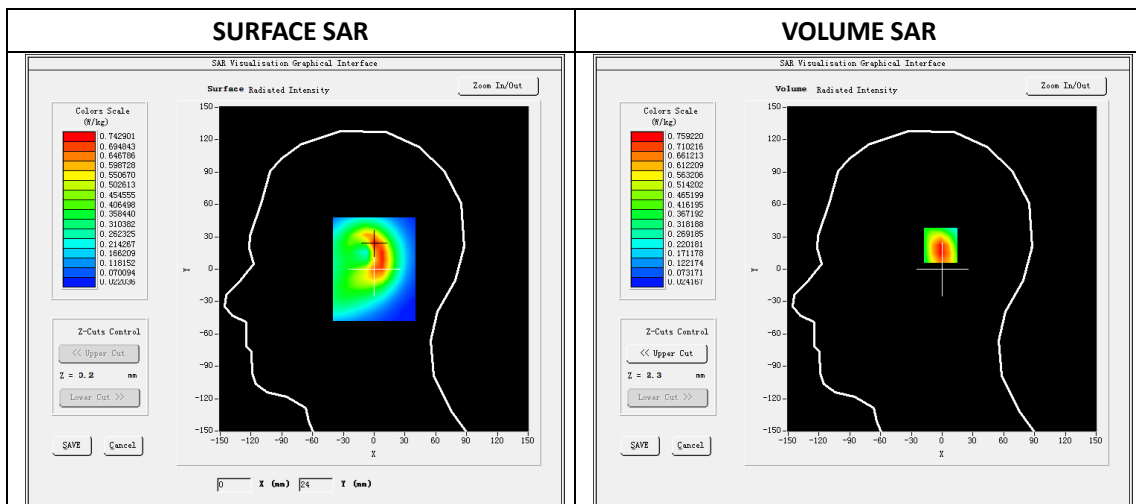
Type: Phone measurement  
 Date of measurement: 03/17/2019  
 Measurement duration: 22 minutes 16 seconds  
 Mobile Phone IMEI number: --

**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	CDMA BC1
Channels	660
Signal	CDMA

**B. SAR Measurement Results**

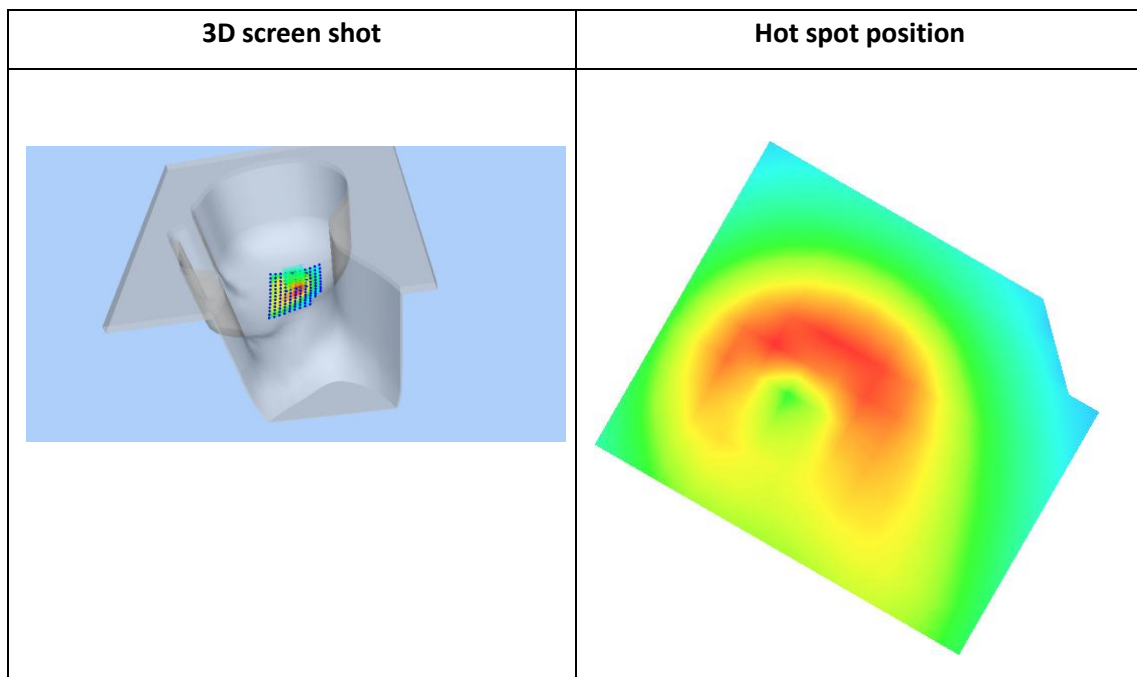
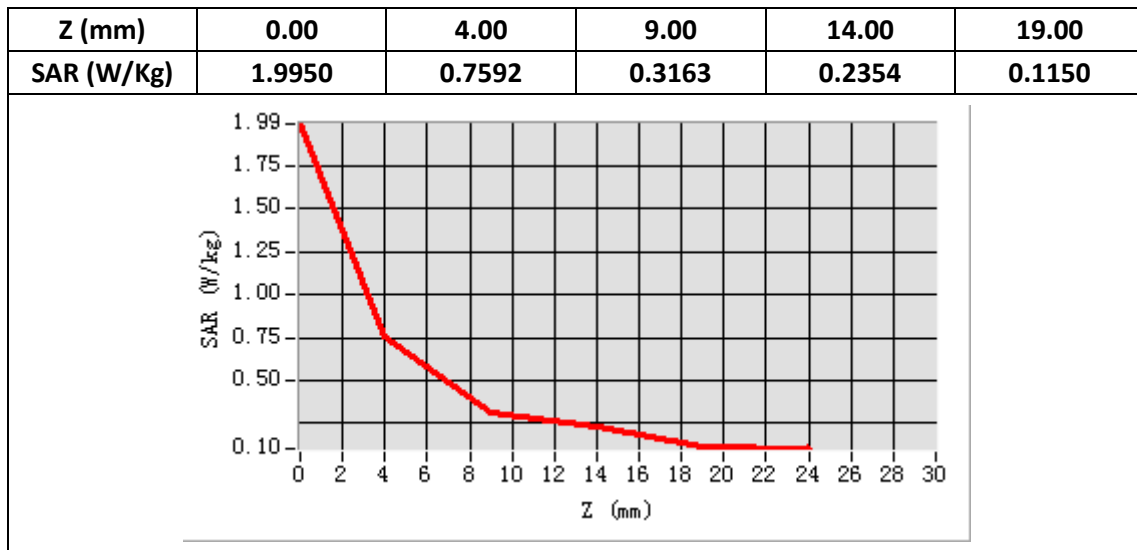
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	40.34
Relative permittivity (imaginary part)	13.10
Conductivity (S/m)	1.31
Variation (%)	-1.57
ConvF:	2.14



Maximum location: X=2.00, Y=23.00

SAR Peak: 1.28W/kg

SAR 10g (W/Kg)	0.402614
SAR 1g (W/Kg)	0.744085



**Plot 14: CDMA BC1,Back ,Middle, 10mm**

Type: Phone measurement

Date of measurement: 03/17/2019

Measurement duration: 22 minutes 14 seconds

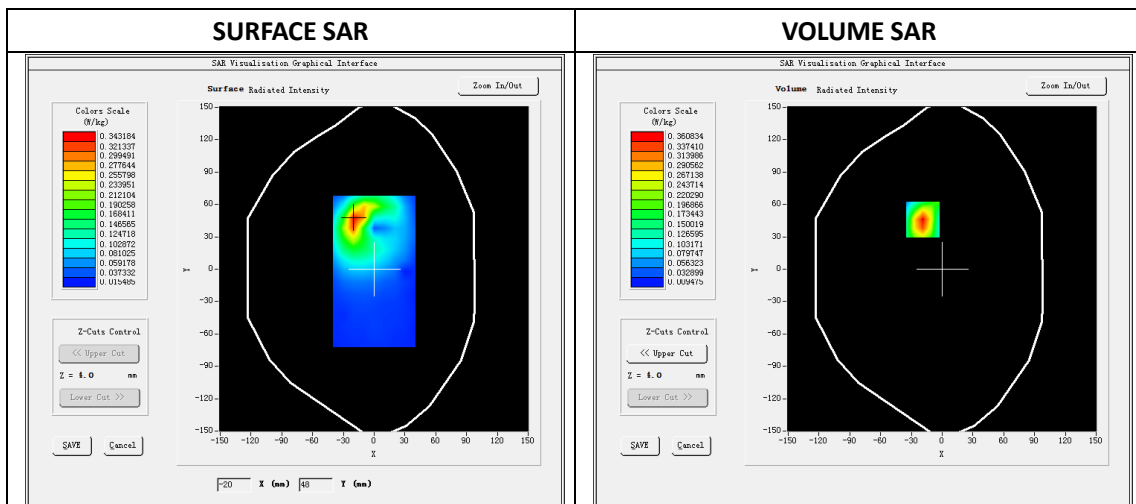
Mobile Phone IMEI number: --

**A. Experimental conditions.**

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Middle
Band	CDMA BC1
Channels	6
Signal	CDMA

**B. SAR Measurement Results**

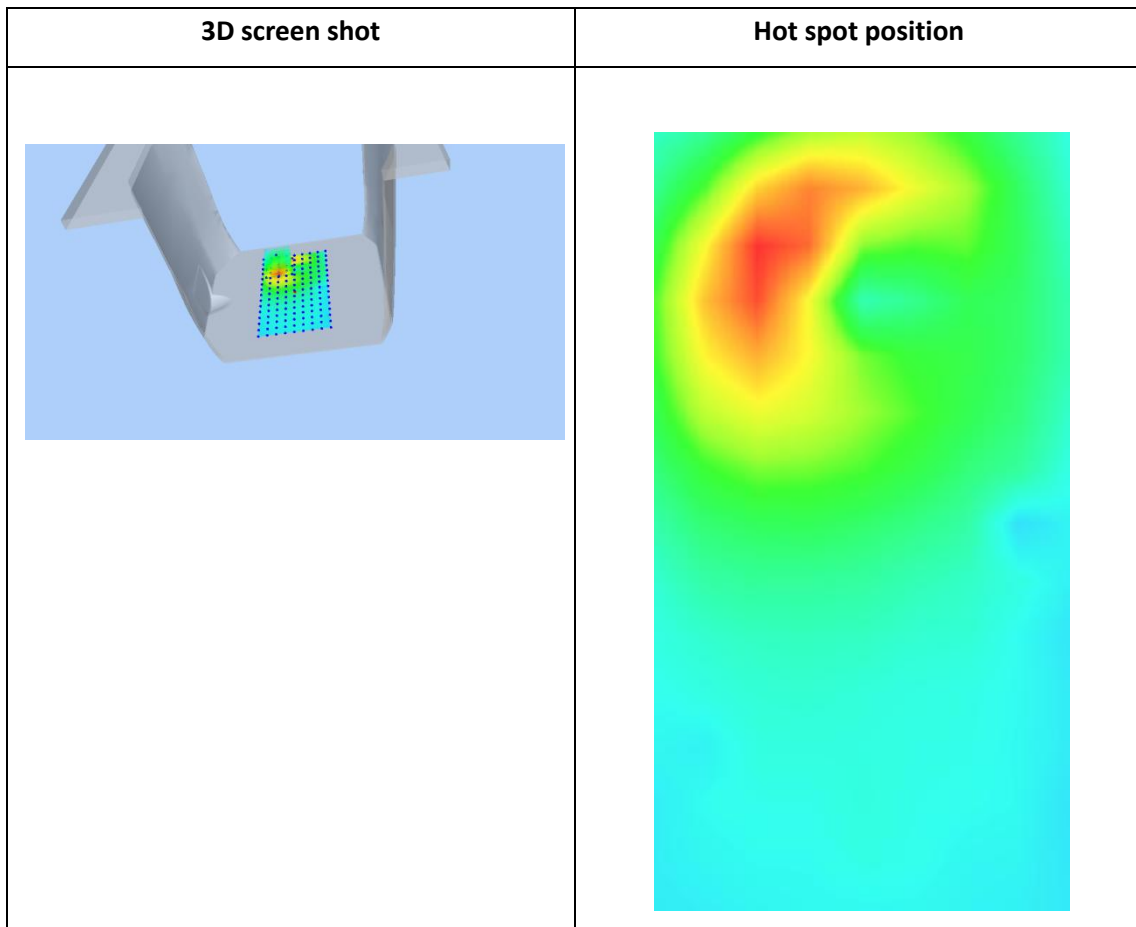
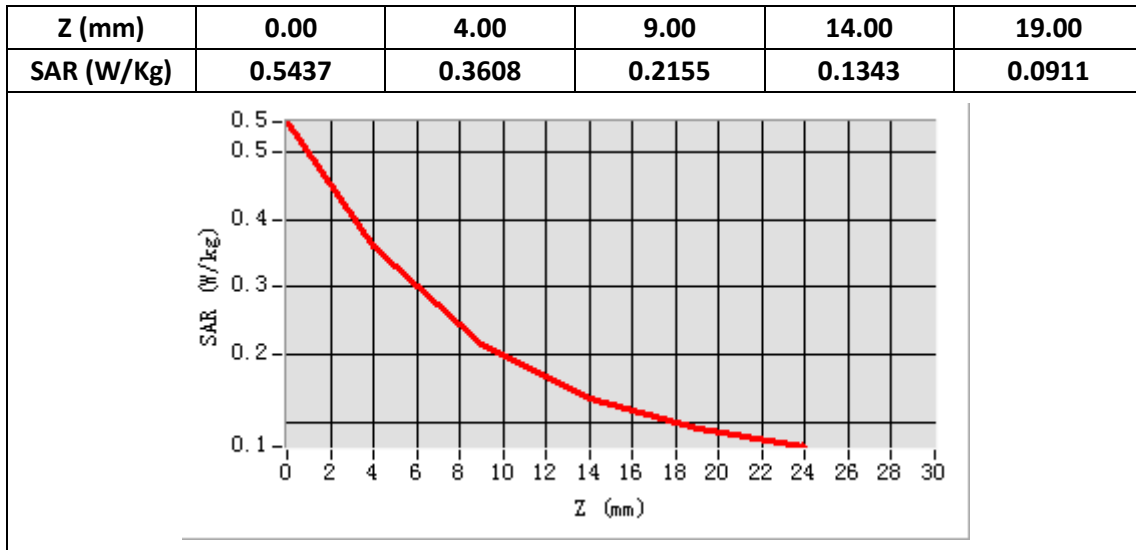
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.39
Relative permittivity (imaginary part)	15.20
Conductivity (S/m)	1.52
Variation (%)	-3.17
ConvF:	2.22



Maximum location: X=-19.00, Y=46.00

SAR Peak: 0.55W/kg

SAR 10g (W/Kg)	0.183863
SAR 1g (W/Kg)	0.341572





**Plot 15: LTE Band 2, 20MHz, Right Cheek , Middle**

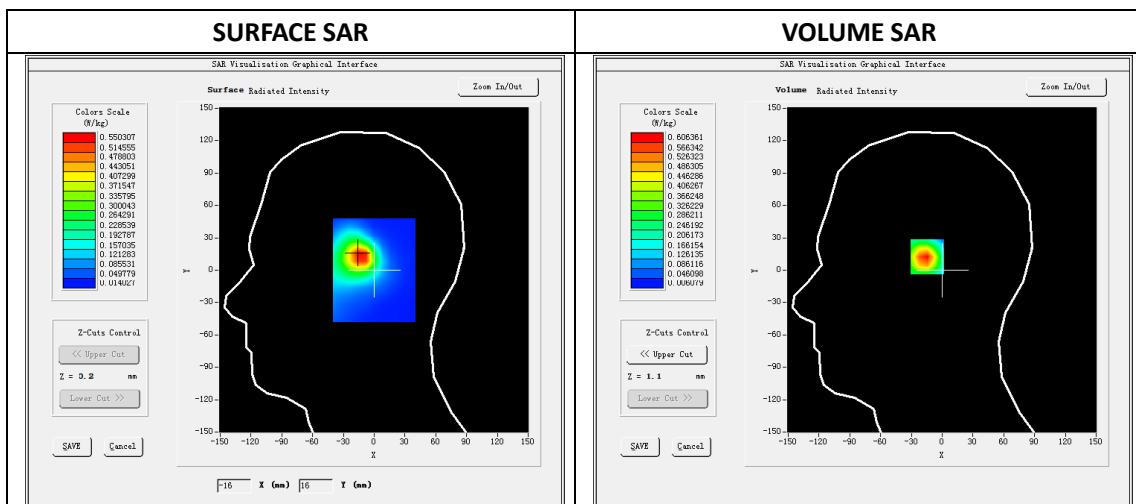
Type: Phone measurement  
 Date of measurement: 03/18/2019  
 Measurement duration: 22 minutes 12 seconds  
 Mobile Phone IMEI number: --

**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 2
Channels	18900
Signal	LTE (Duty cycle: 1:1)

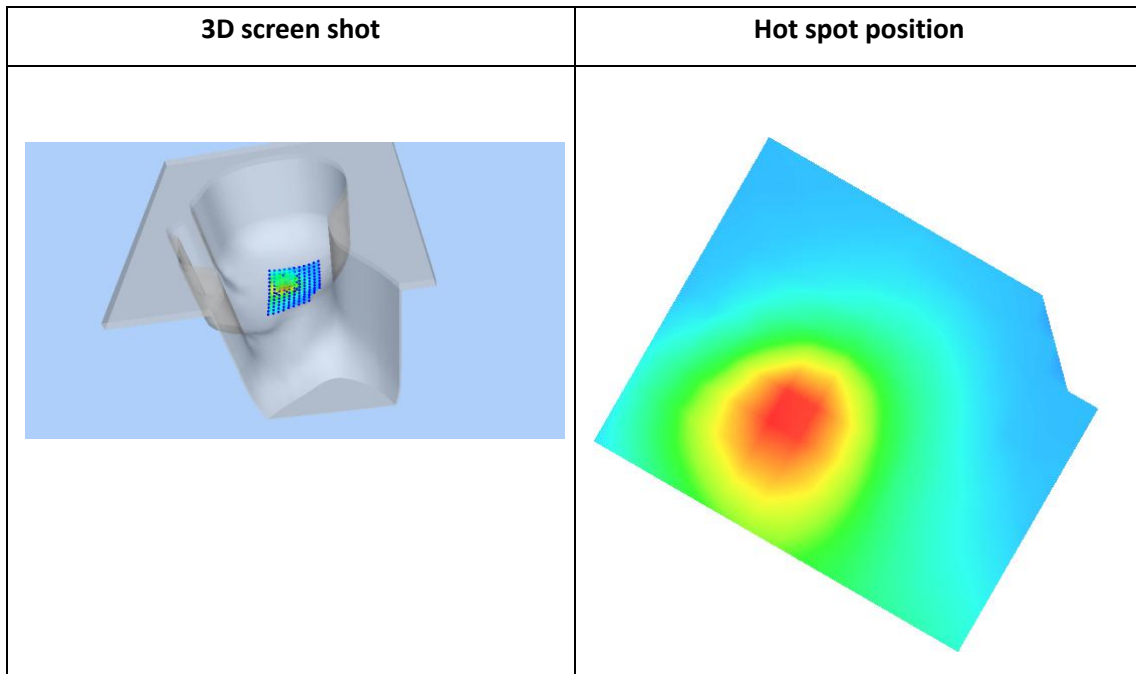
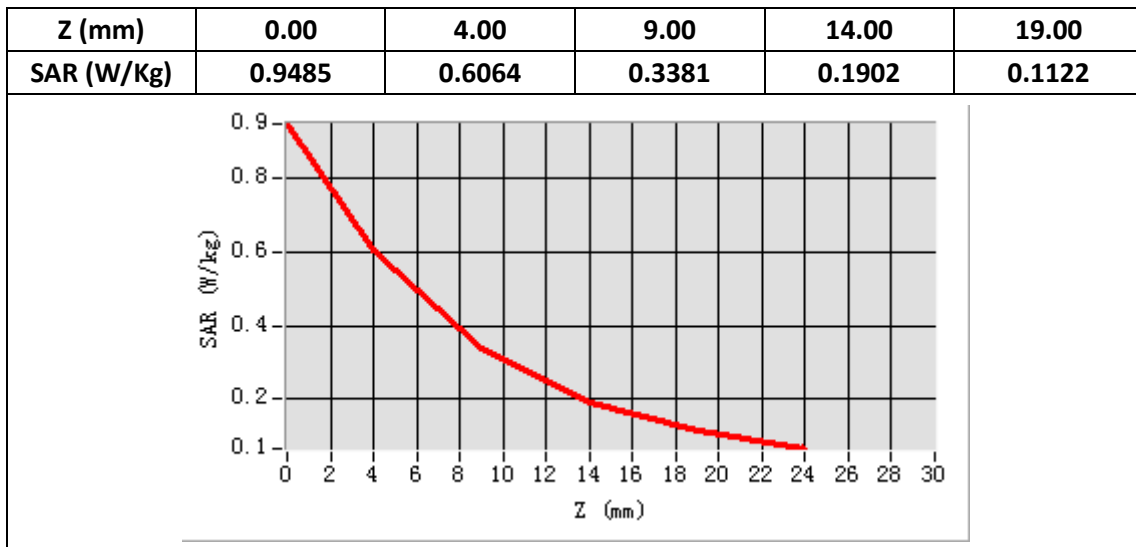
**B. SAR Measurement Results**

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	40.60
Relative permittivity (imaginary part)	13.16
Conductivity (S/m)	1.39
Variation (%)	-3.32
ConvF:	2.34



**Maximum location: X=-12.00, Y=13.00**

SAR 10g (W/Kg)	0.287779
SAR 1g (W/Kg)	0.565183



**Plot 16: LTE Band2, 20MHz, Back Middle,10mm**

Type: Phone measurement

Date of measurement: 03/18/2019

Measurement duration: 22 minutes 35 seconds

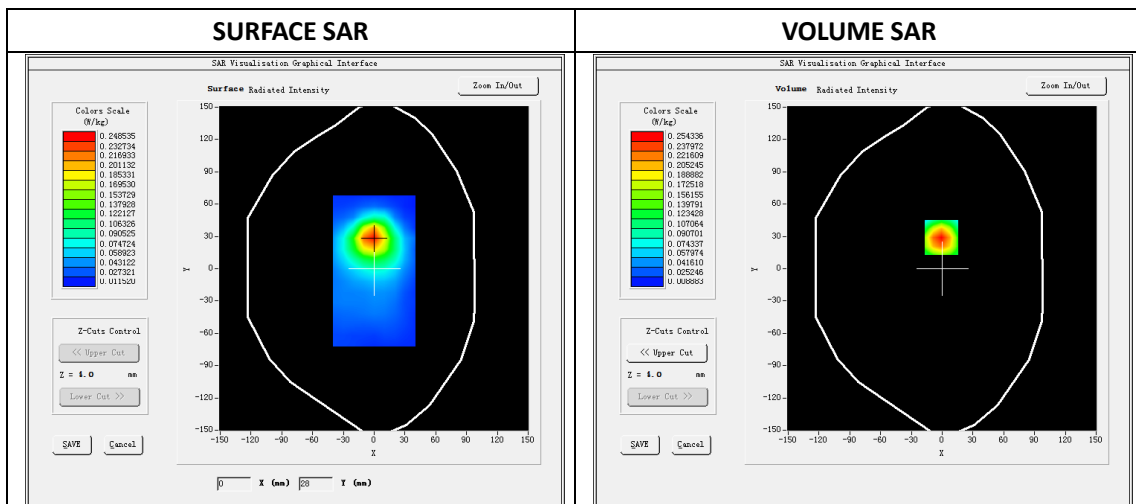
Mobile Phone IMEI number: --

**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**

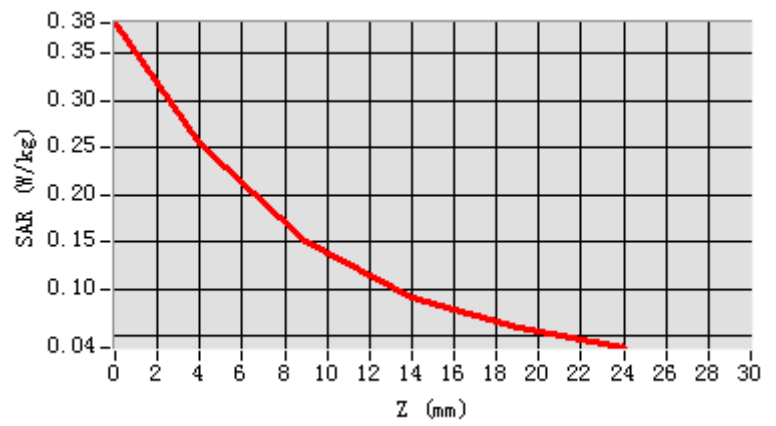
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.42
Relative permittivity (imaginary part)	14.30
Conductivity (S/m)	1.51
Variation (%)	-3.81
ConvF:	2.39

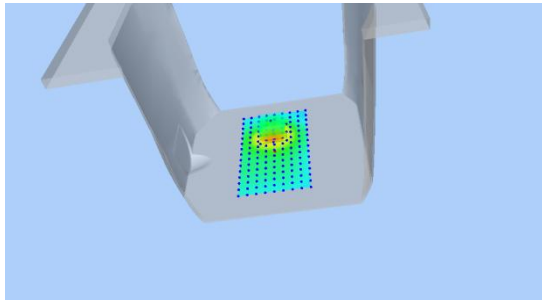
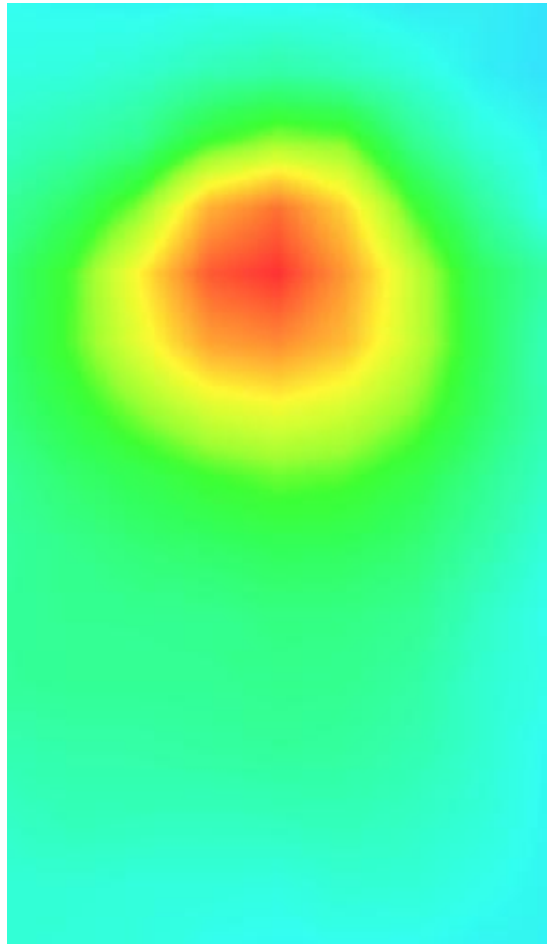


Maximum location: X=-1.00, Y=29.00

SAR 10g (W/Kg)	0.133521
SAR 1g (W/Kg)	0.238230

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.3819	0.2543	0.1513	0.0920	0.0591



3D screen shot	Hot spot position
	

## Plot 17: LTE Band4, 20MHz,Right Cheek, Middle

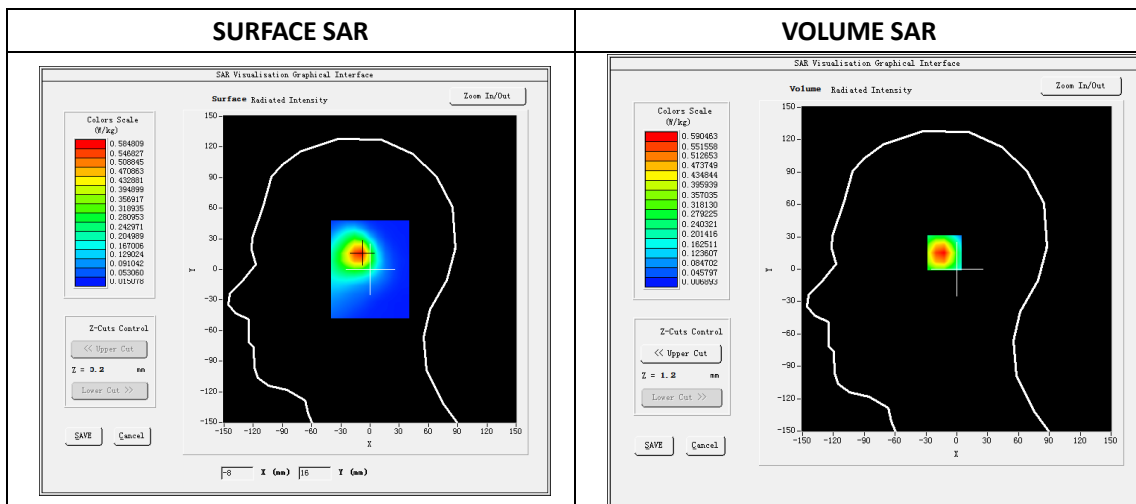
Type: Phone measurement  
 Date of measurement: 03/17/2019  
 Measurement duration: 22 minutes 15 seconds  
 Mobile Phone IMEI number: --

**A. Experimental conditions.**

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

**B. SAR Measurement Results**

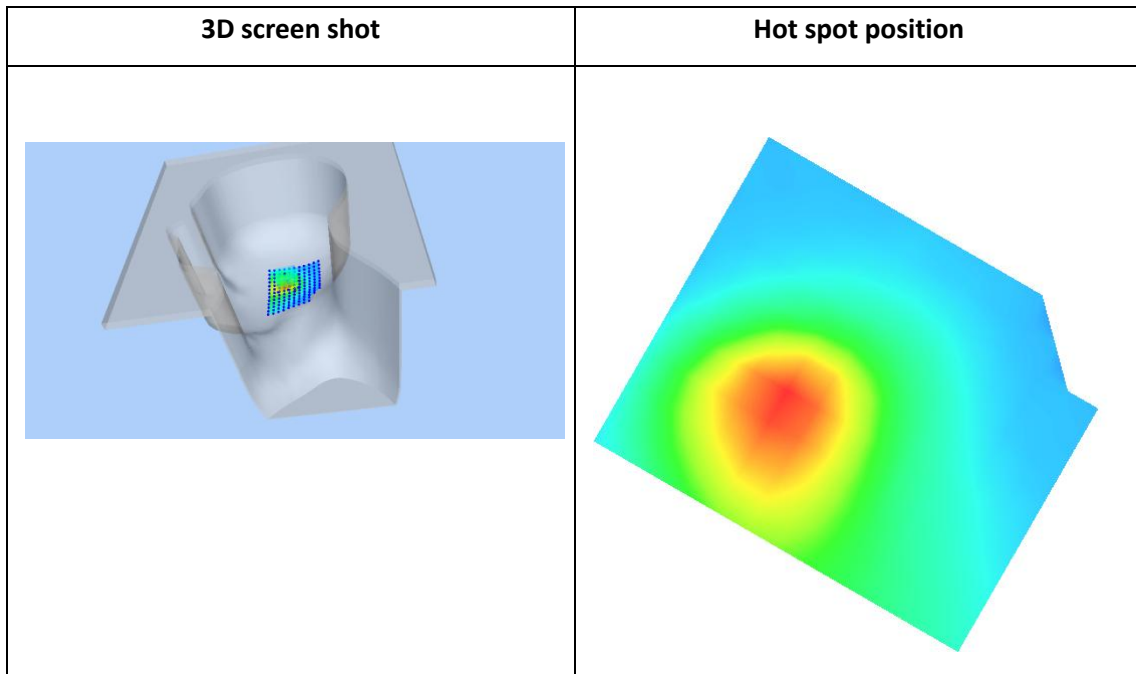
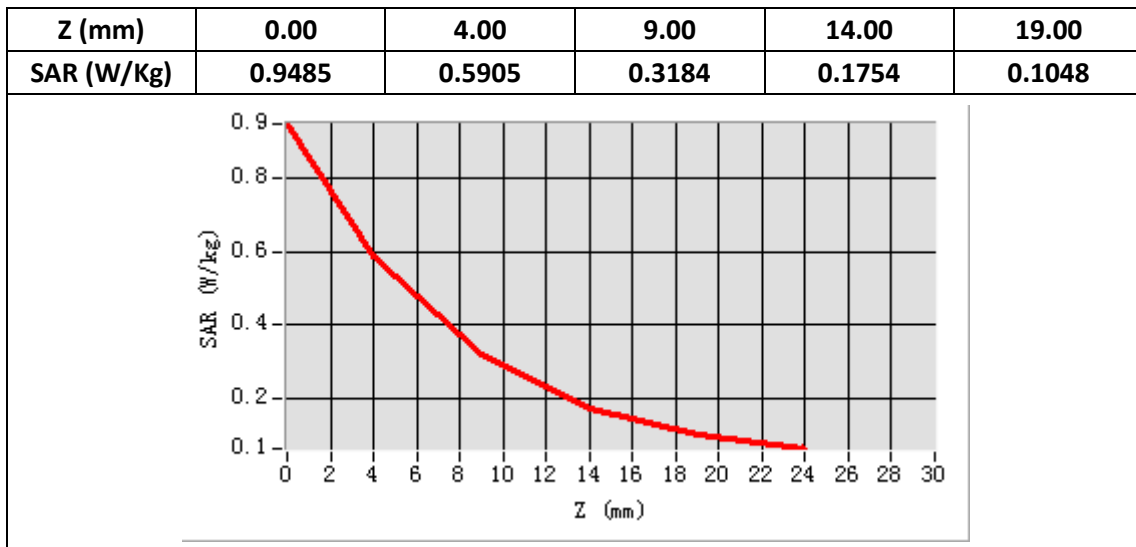
<b>E-Field Probe</b>	SATIMO SN_27/15_EPG0261
<b>Frequency (MHz)</b>	1732.5
<b>Relative permittivity (real part)</b>	40.34
<b>Relative permittivity (imaginary part)</b>	13.10
<b>Conductivity (S/m)</b>	1.31
<b>Variation (%)</b>	-1.74
<b>ConvF:</b>	2.14



**Maximum location: X=-10.00, Y=16.00**

**SAR Peak: 0.97 W/kg**

<b>SAR 10g (W/Kg)</b>	0.291026
<b>SAR 1g (W/Kg)</b>	0.568688



**Plot 18: LTE Band4, 20MHz, Back, Middle,10mm**

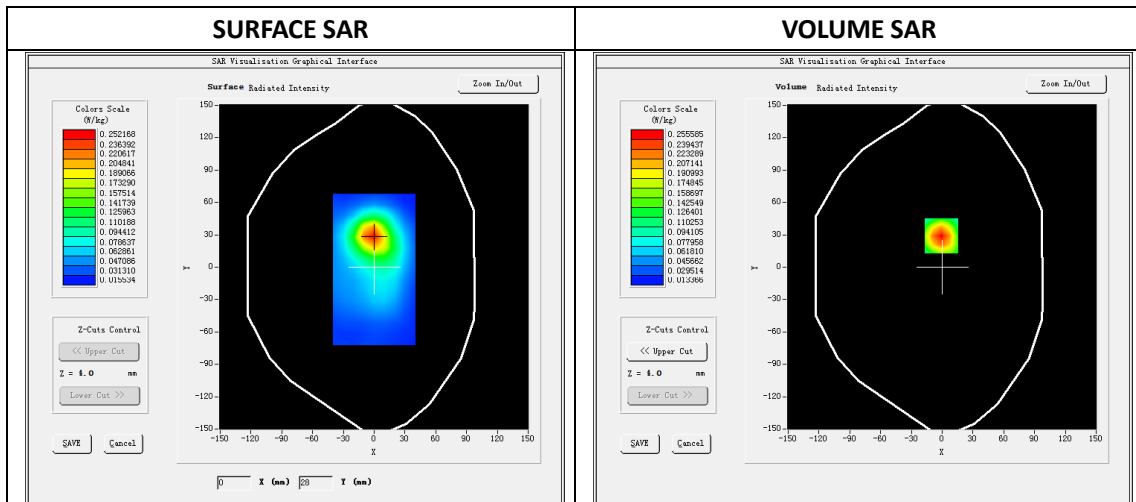
Type: Phone measurement  
 Date of measurement: 03/17/2019  
 Measurement duration: 22 minutes 35 seconds  
 Mobile Phone IMEI number: --

**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_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	53.39
Relative permittivity (imaginary part)	15.20
Conductivity (S/m)	1.52
Variation (%)	-4.10
ConvF:	2.22

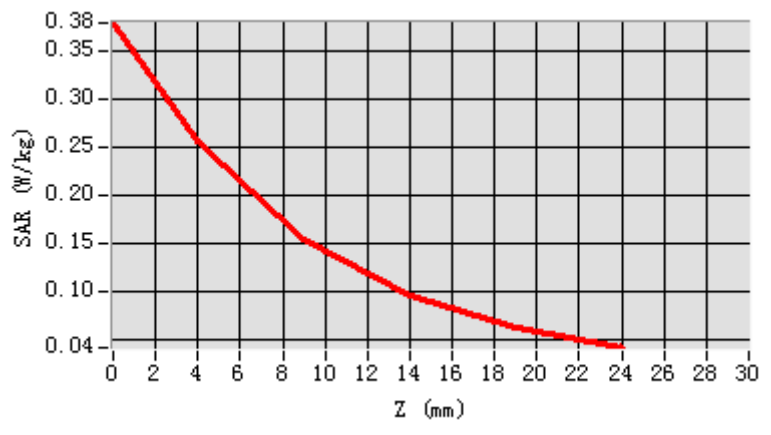


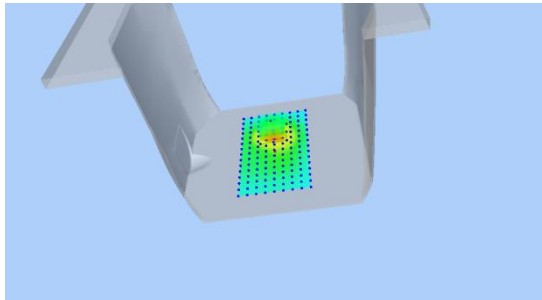
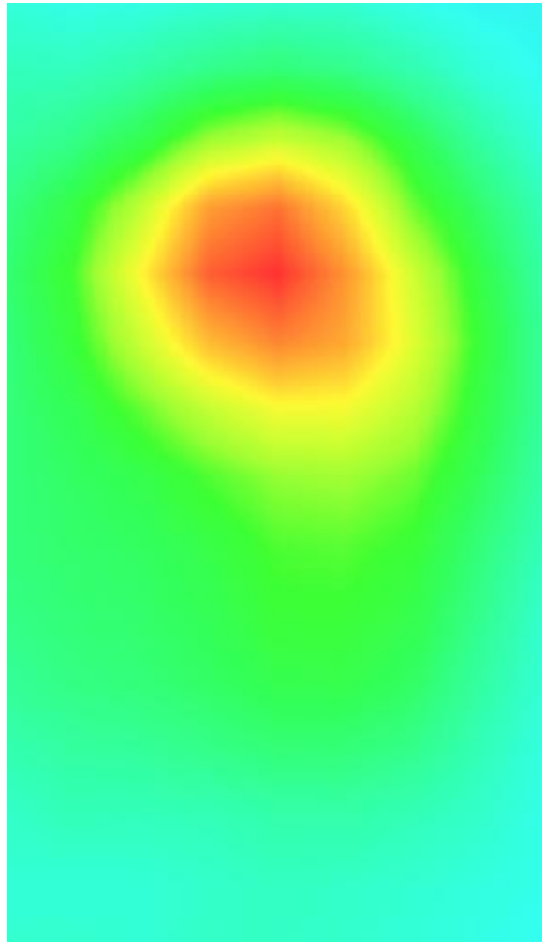
**Maximum location: X=-1.00, Y=29.00**

**SAR Peak: 0.38 W/kg**

SAR 10g (W/Kg)	0.138773
SAR 1g (W/Kg)	0.244298

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.3789	0.2556	0.1549	0.0962	0.0630



3D screen shot	Hot spot position
	



## Plot 19 LTE Band5, 10MHz, Right Cheek, Middle

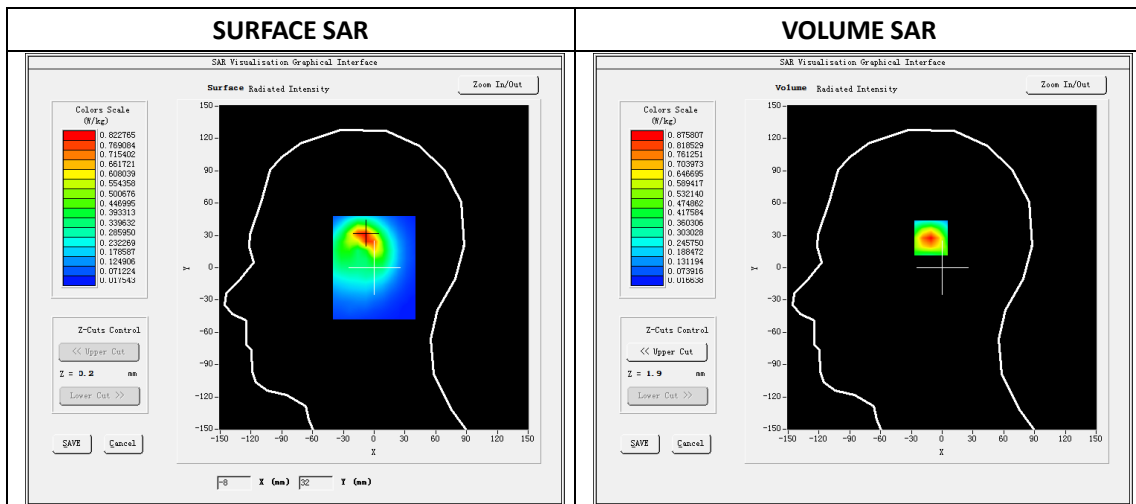
Type: Phone measurement  
 Date of measurement: 03/16/2019  
 Measurement duration: 22 minutes 12 econds  
 Mobile Phone IMEI number: --

**A. Experimental conditions.**

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

**B. SAR Measurement Results**

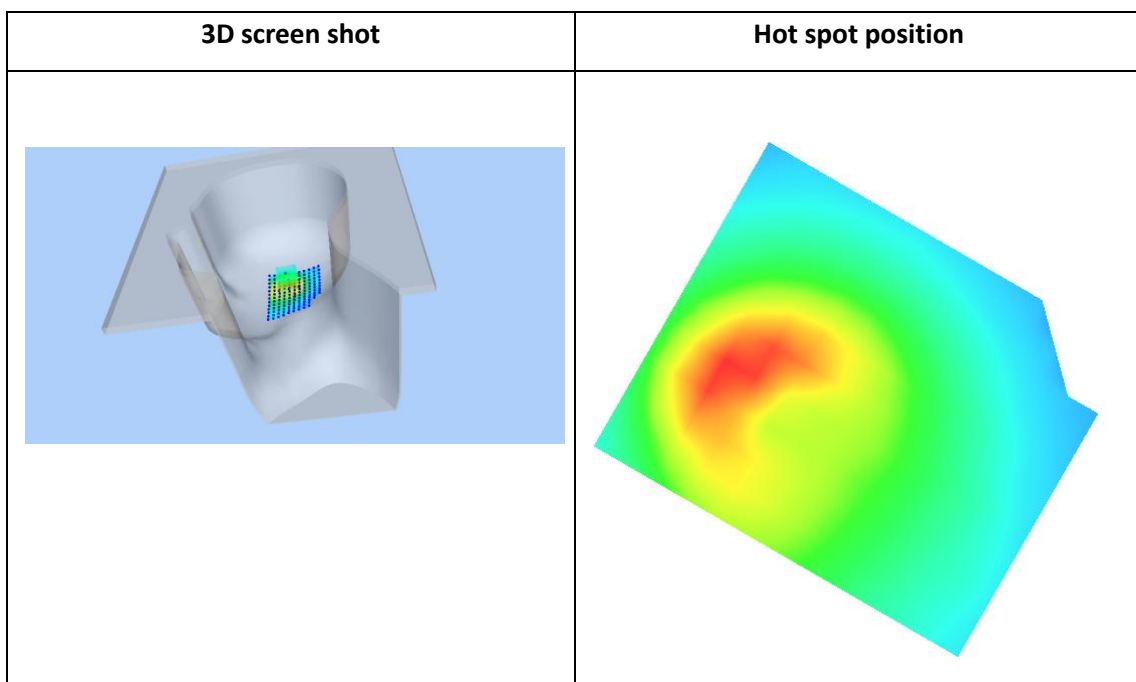
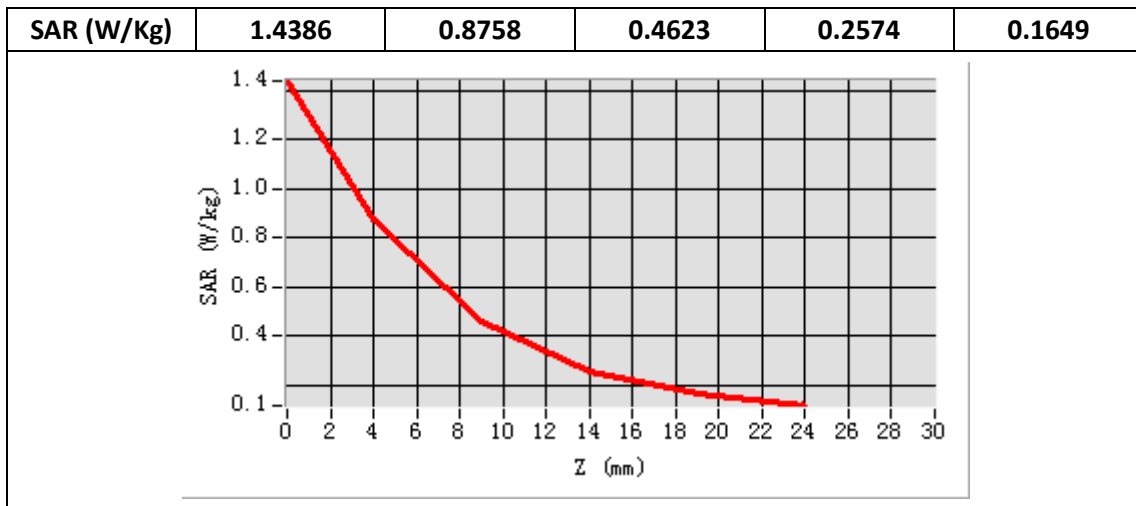
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.5
Relative permittivity (real part)	41.32
Relative permittivity (imaginary part)	18.42
Conductivity (S/m)	0.87
Variation (%)	-1.70
ConvF:	1.92



Maximum location: X=-9.00, Y=30.00

SAR Peak: 1.44 W/kg

SAR 10g (W/Kg)		0.419808			
SAR 1g (W/Kg)		0.724585			
Z (mm)	0.00	4.00	9.00	14.00	19.00



## Plot 20 LTE Band5, 10MHz, Back, Middle,10mm

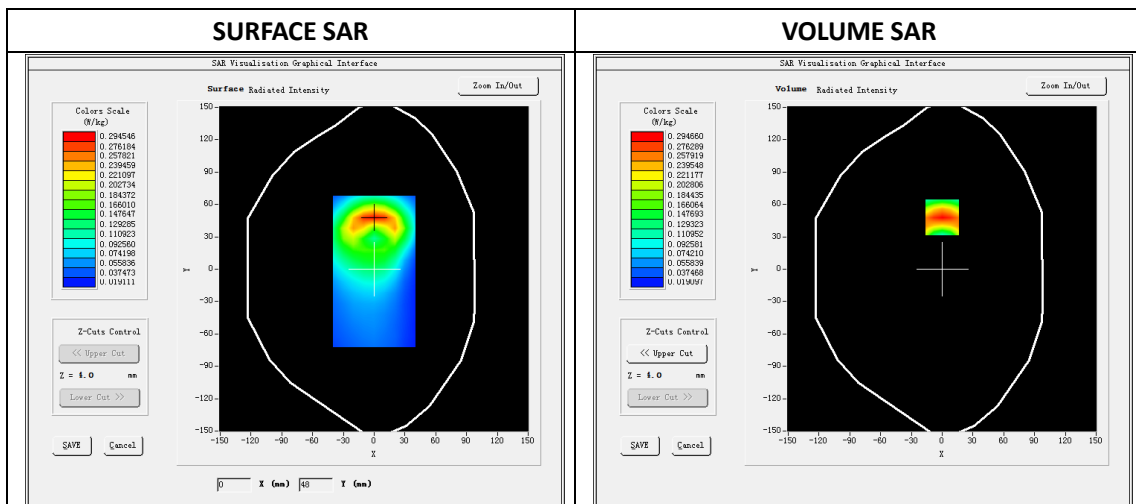
Type: Phone measurement  
 Date of measurement: 03/16/2019  
 Measurement duration: 22 minutes 37 seconds  
 Mobile Phone IMEI number: --

**A. Experimental conditions.**

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

**B. SAR Measurement Results**

<b>E-Field Probe</b>	SATIMO SN_27/15_EPG0261
<b>Frequency (MHz)</b>	836.5
<b>Relative permittivity (real part)</b>	55.22
<b>Relative permittivity (imaginary part)</b>	20.15
<b>Conductivity (S/m)</b>	0.94
<b>Variation (%)</b>	-3.51
<b>ConvF:</b>	1.99

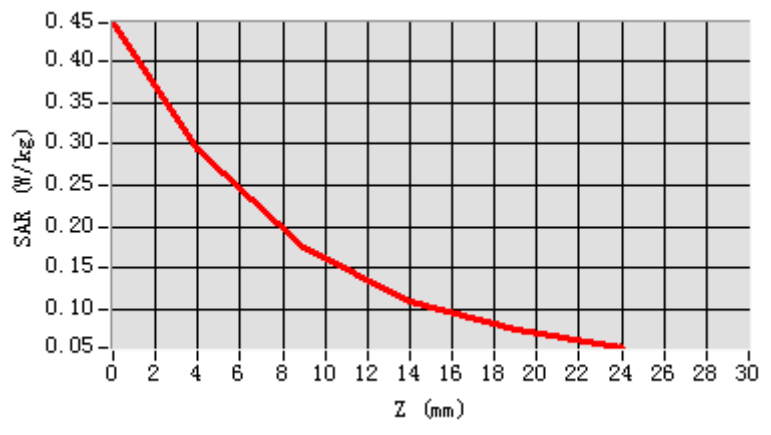


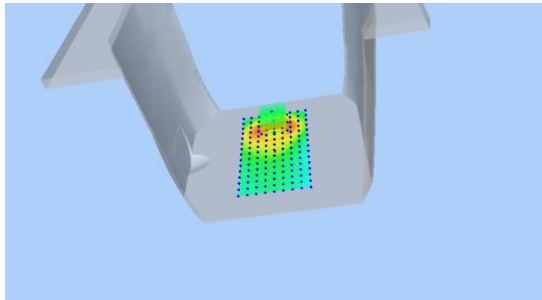
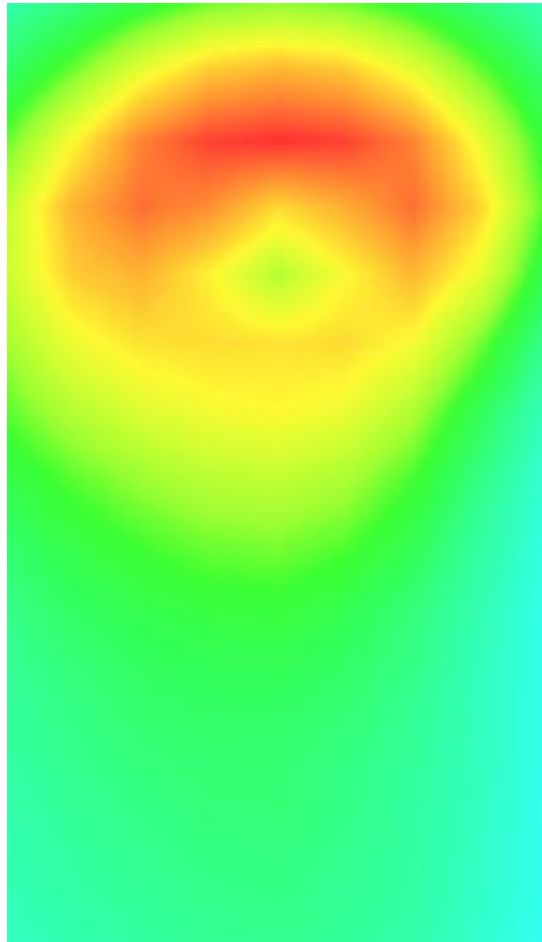
**Maximum location: X=0.00, Y=48.00**

**SAR Peak: 0.45W/kg**

<b>SAR 10g (W/Kg)</b>	0.162771
<b>SAR 1g (W/Kg)</b>	0.280599

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4458	0.2947	0.1754	0.1096	0.0754



3D screen shot	Hot spot position
	

## Plot 21: LTE Band7, 20MHz, Left Cheek, Middle

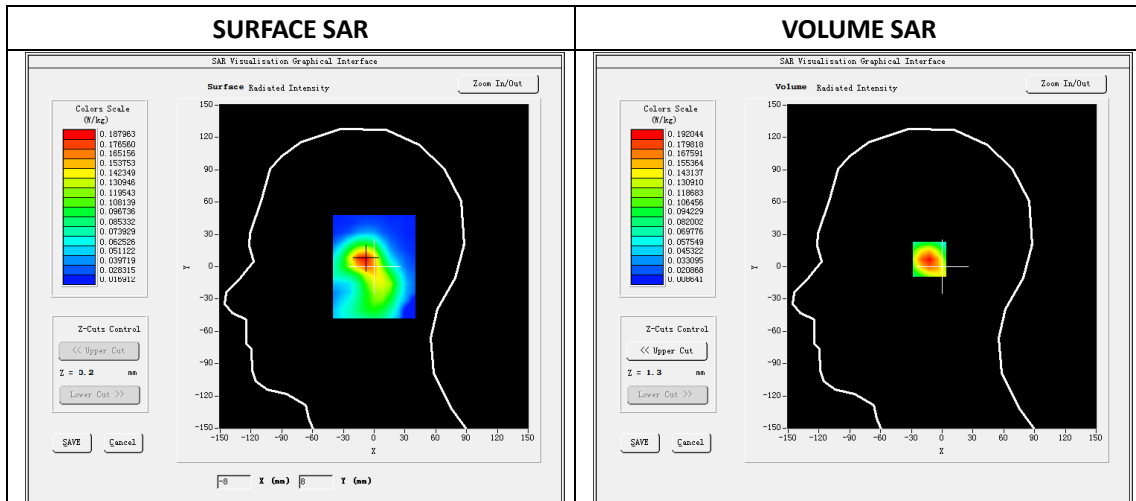
Type: Phone measurement  
 Date of measurement: 03/19/2019  
 Measurement duration: 22 minutes 11 seconds  
 Mobile Phone IMEI number: --

**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	21100
Signal	LTE (Duty cycle: 1:1)

**B. SAR Measurement Results**

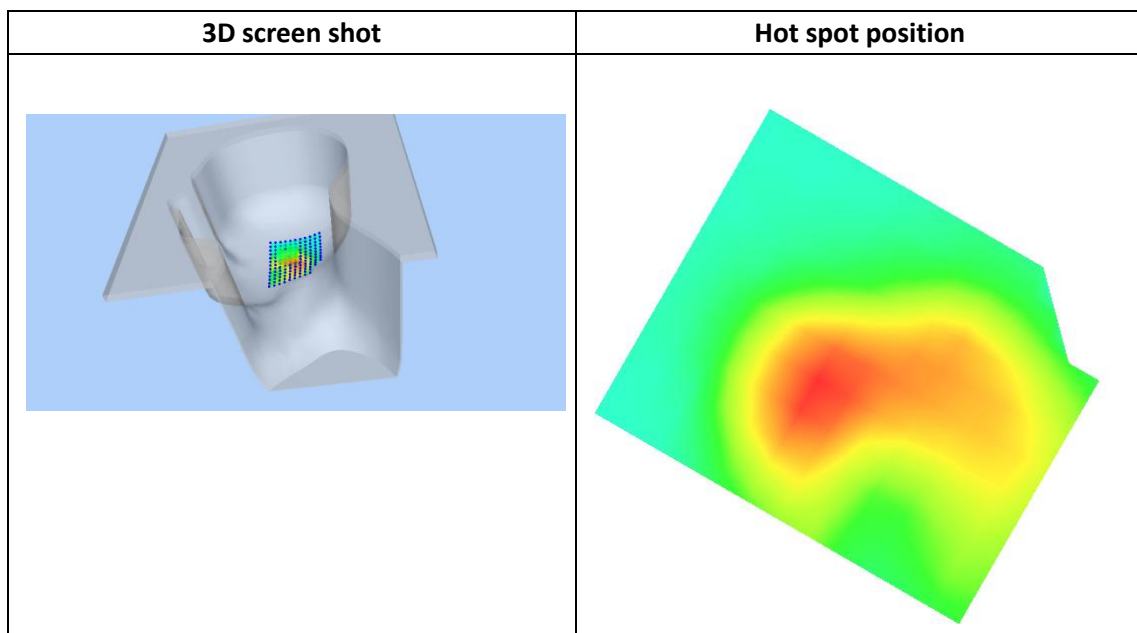
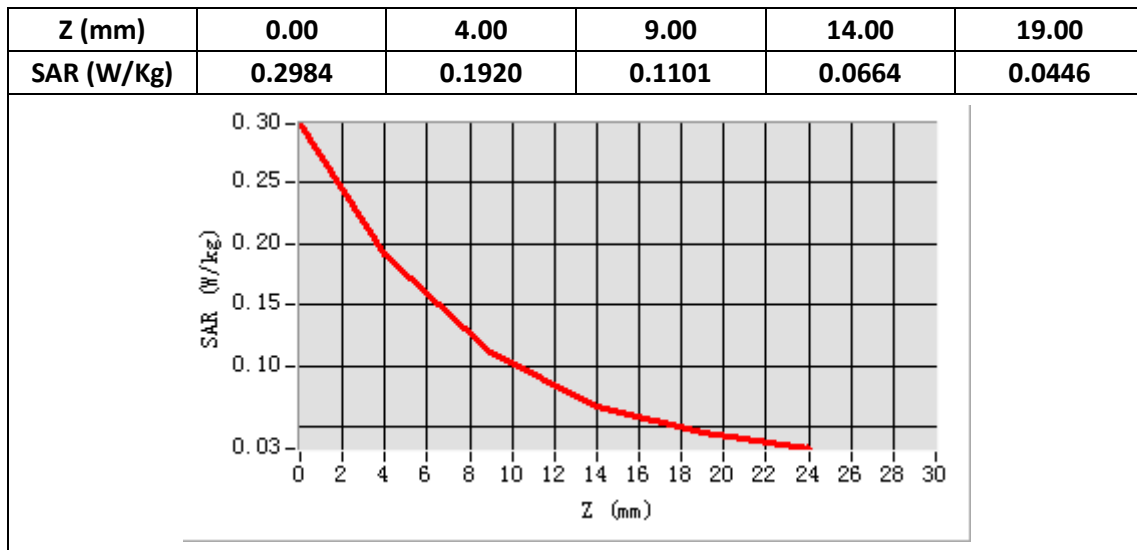
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2535
Relative permittivity (real part)	39.11
Relative permittivity (imaginary part)	13.63
Conductivity (S/m)	1.97
Variation (%)	0.07
ConvF:	2.35



Maximum location: X=-9.00, Y=7.00

SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.093169
SAR 1g (W/Kg)	0.155171



**Plot 22 LTE Band7, 20MHz, Back, Middle,10mm**

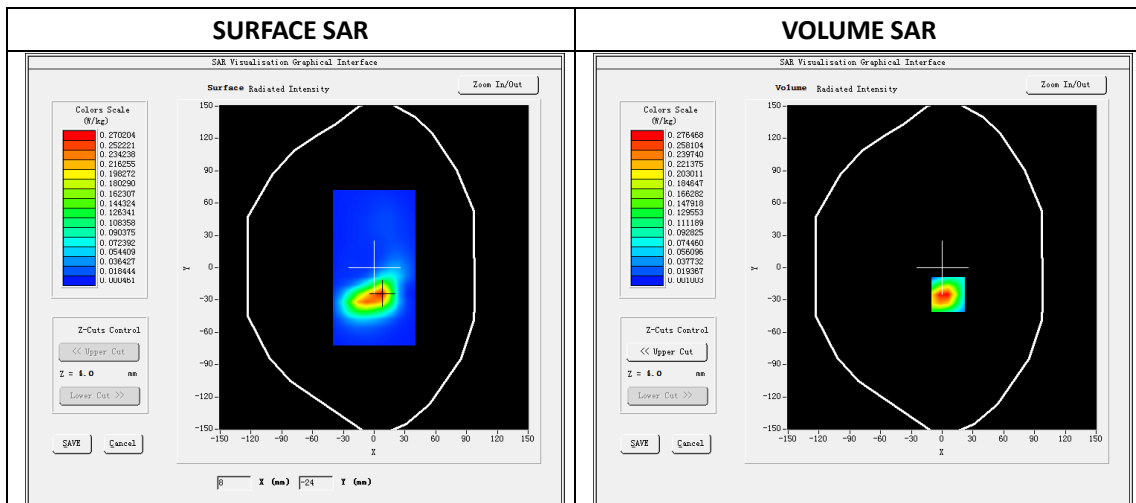
Type: Phone measurement  
 Date of measurement: 03/19/2019  
 Measurement duration: 22 minutes 12 seconds  
 Mobile Phone IMEI number: --

**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	21100
Signal	LTE (Duty cycle: 1:1)

**B. SAR Measurement Results**

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2535
Relative permittivity (real part)	52.28
Relative permittivity (imaginary part)	14.60
Conductivity (S/m)	2.11
Variation (%)	-1.86
ConvF:	2.43

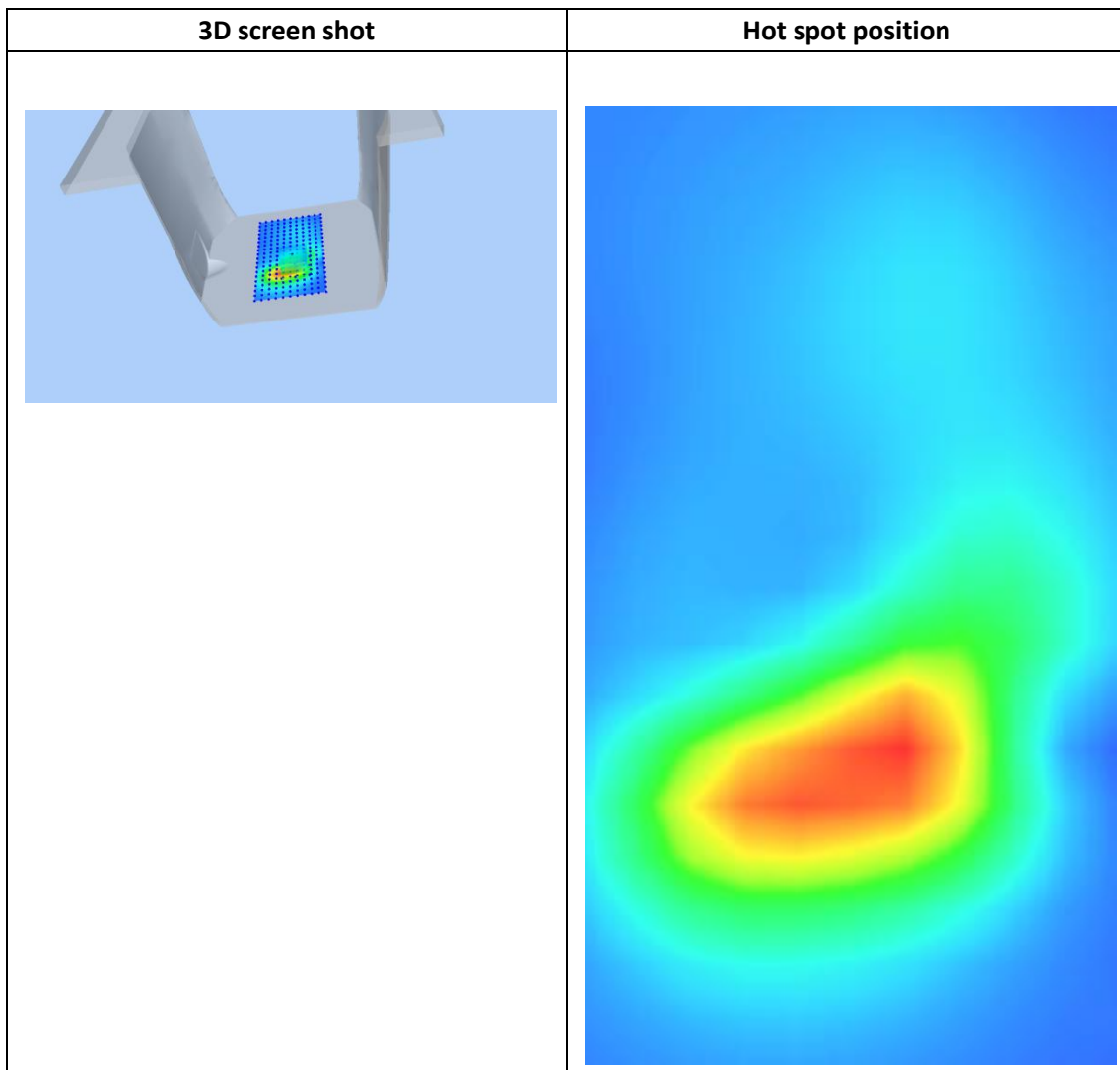
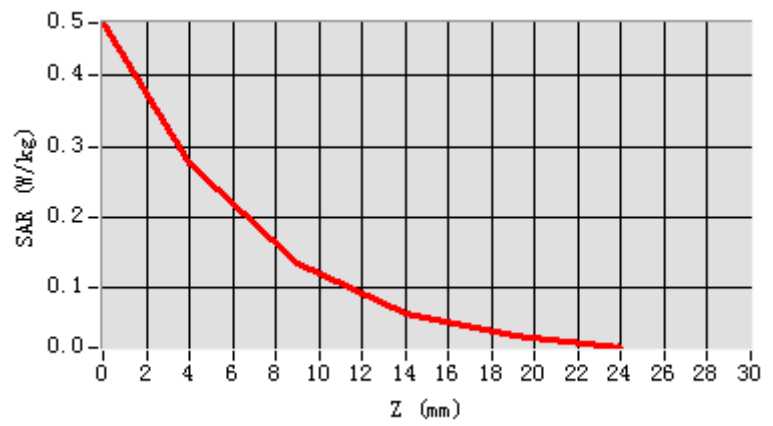


Maximum location: X=6.00, Y=-25.00

SAR Peak: 0.50 W/kg

SAR 10g (W/Kg)	0.122343
SAR 1g (W/Kg)	0.260242

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4749	0.2765	0.1327	0.0623	0.0306





## Plot 23 LTE Band12, 10MHz,Right Cheek, Middle

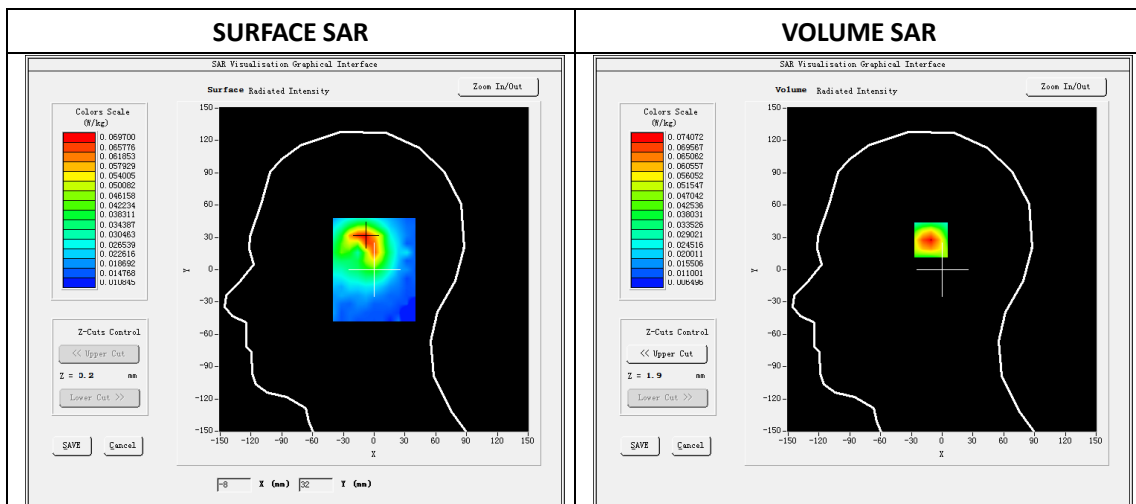
Type: Phone measurement  
 Date of measurement: 03/15/2019  
 Measurement duration: 22 minutes 26 seconds  
 Mobile Phone IMEI number: --

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

**B. SAR Measurement Results**

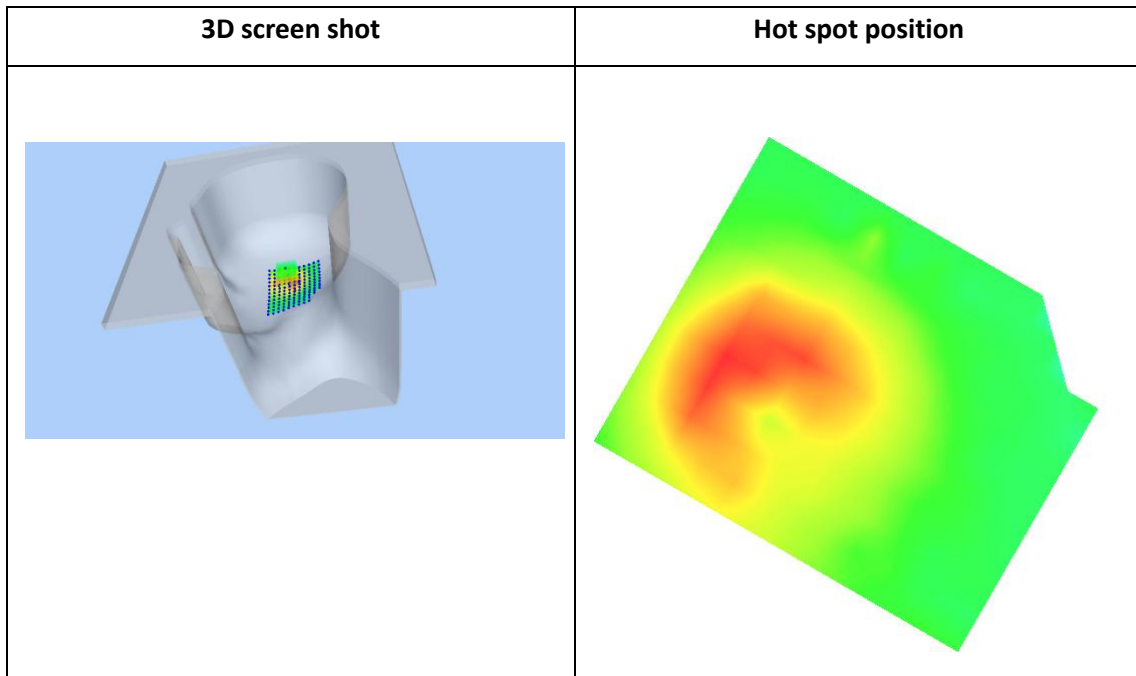
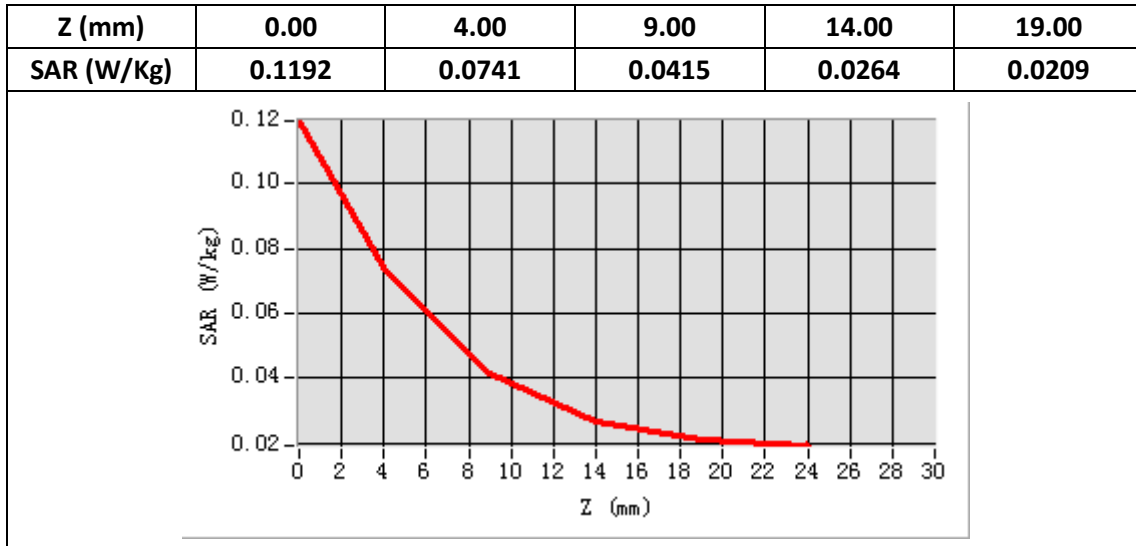
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	707.5
Relative permittivity (real part)	41.95
Relative permittivity (imaginary part)	22.08
Conductivity (S/m)	0.92
Variation (%)	-2.95
ConvF:	1.87



Maximum location: X=-9.00, Y=30.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.041575
SAR 1g (W/Kg)	0.071581



**Plot 24 LTE Band12, 10MHz, Back, Middle,10mm**

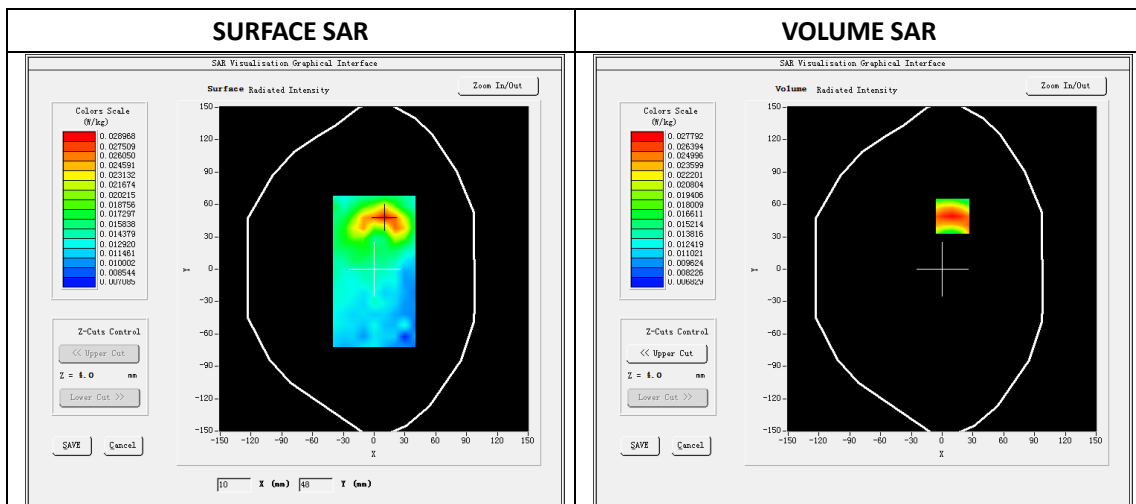
Type: Phone measurement  
 Date of measurement: 03/15/2019  
 Measurement duration: 22 minutes 12 seconds  
 Mobile Phone IMEI number: --

**A. Experimental conditions.**

<b>Area Scan</b>	dx=8mm dy=8mm
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Back
<b>Band</b>	LTE Band 12
<b>Channels</b>	23095
<b>Signal</b>	LTE (Duty cycle: 1:1)

**B. SAR Measurement Results**

<b>E-Field Probe</b>	SATIMO SN_27/15_EPG0261
<b>Frequency (MHz)</b>	707.5
<b>Relative permittivity (real part)</b>	55.53
<b>Relative permittivity (imaginary part)</b>	22.80
<b>Conductivity (S/m)</b>	0.95
<b>Variation (%)</b>	1.13
<b>ConvF:</b>	1.93

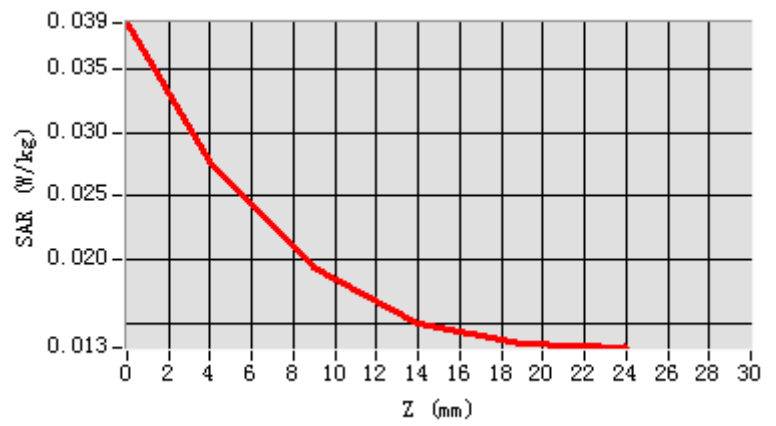


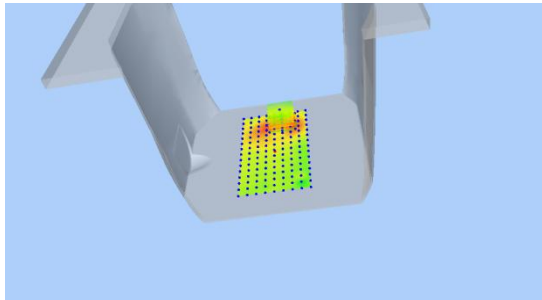
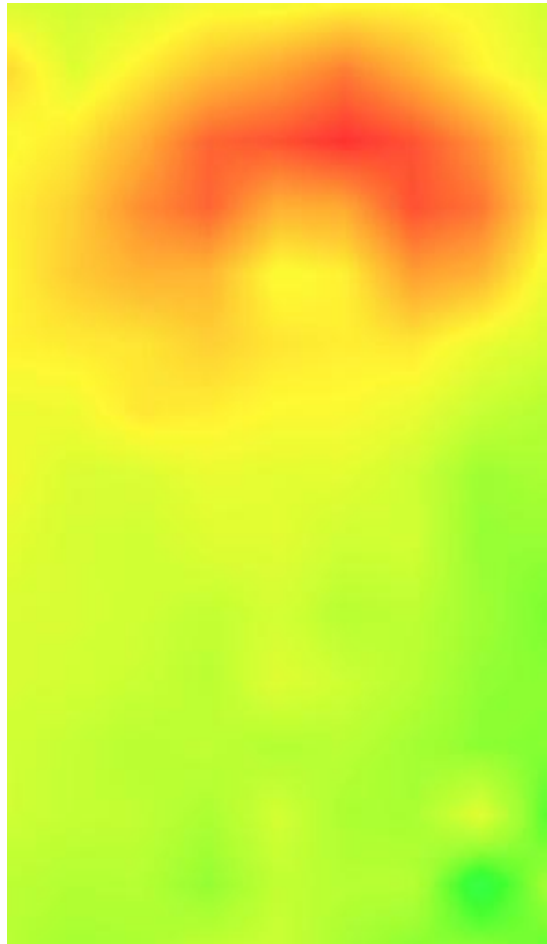
**Maximum location: X=10.00, Y=49.00**

**SAR Peak: 0.04W/kg**

<b>SAR 10g (W/Kg)</b>	0.018938
<b>SAR 1g (W/Kg)</b>	0.026814

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0386	0.0278	0.0193	0.0150	0.0134



3D screen shot	Hot spot position
	

## Plot 25:LTE Band17, 10MHz,Right Check, Middle

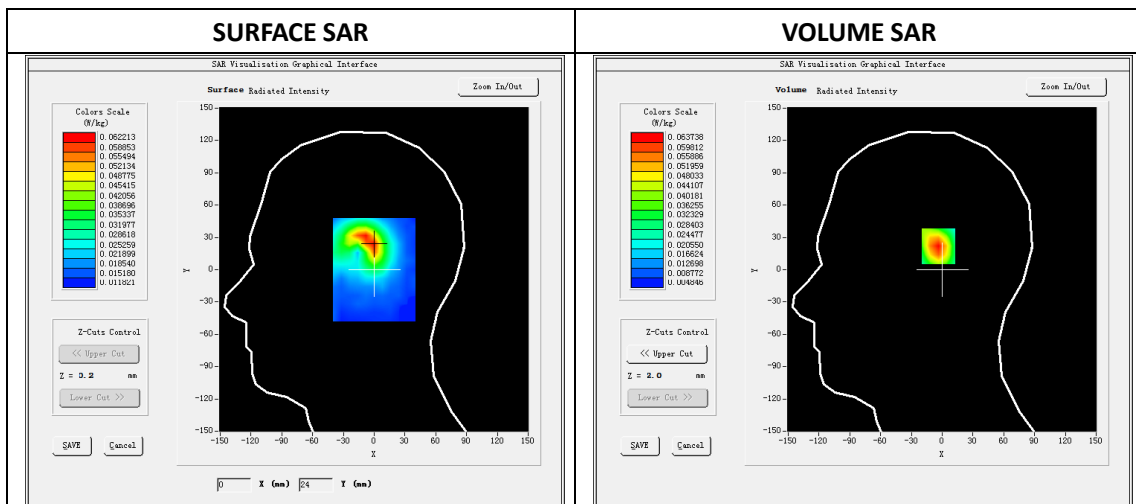
Type: Phone measurement  
 Date of measurement: 03/15/2019  
 Measurement duration: 22 minutes 43 seconds  
 Mobile Phone IMEI number: --

### A. Experimental conditions.

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

### B. SAR Measurement Results

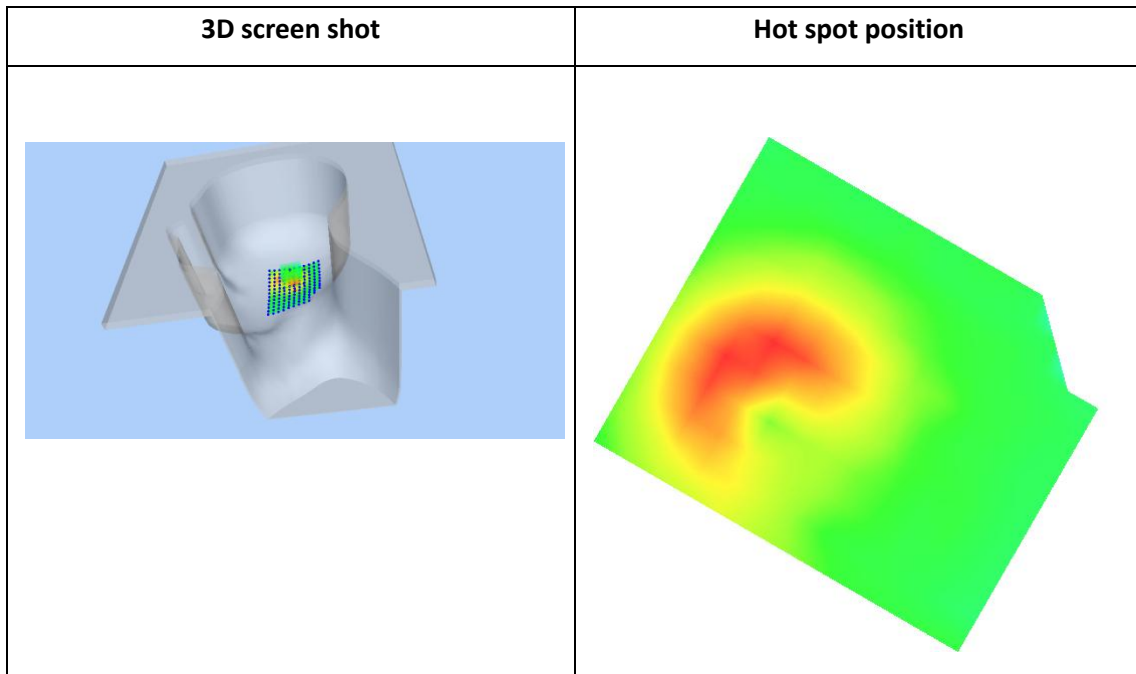
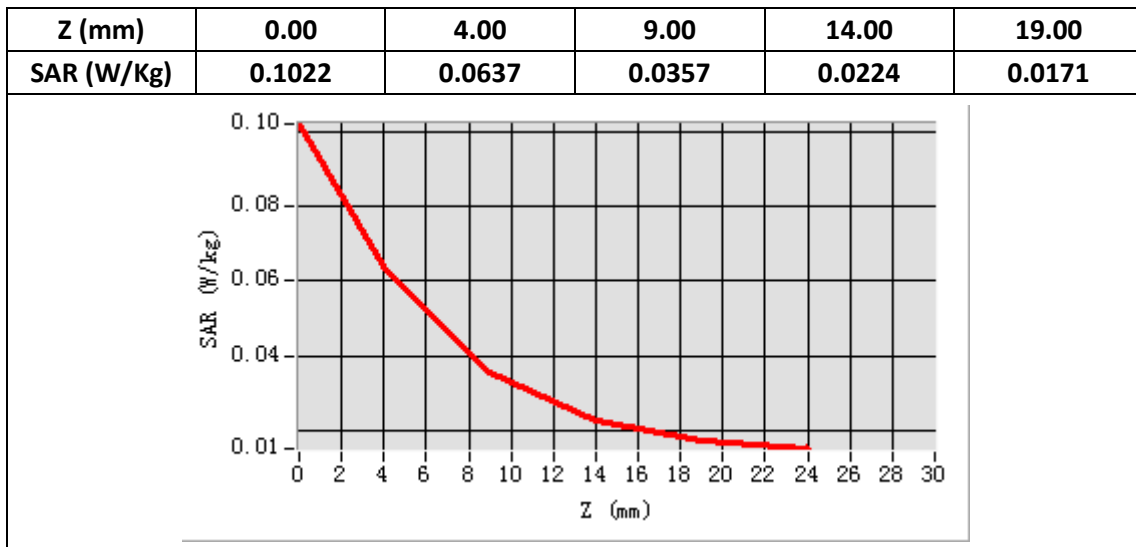
<b>E-Field Probe</b>	SATIMO SN_27/15_EPG0261
<b>Frequency (MHz)</b>	710
<b>Relative permittivity (real part)</b>	41.95
<b>Relative permittivity (imaginary part)</b>	22.08
<b>Conductivity (S/m)</b>	0.92
<b>Variation (%)</b>	-2.87
<b>ConvF:</b>	1.87



**Maximum location: X=-1.00, Y=23.00**

**SAR Peak: 0.10 W/kg**

<b>SAR 10g (W/Kg)</b>	0.017041
<b>SAR 1g (W/Kg)</b>	0.035233



## Plot 26 LTE Band17, 10MHz, Back, Middle,10mm

Type: Phone measurement  
 Date of measurement: 03/15/2019  
 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	Back
Band	LTE Band 17
Channels	23790
Signal	LTE (Duty cycle: 1:1)

**B. SAR Measurement Results**

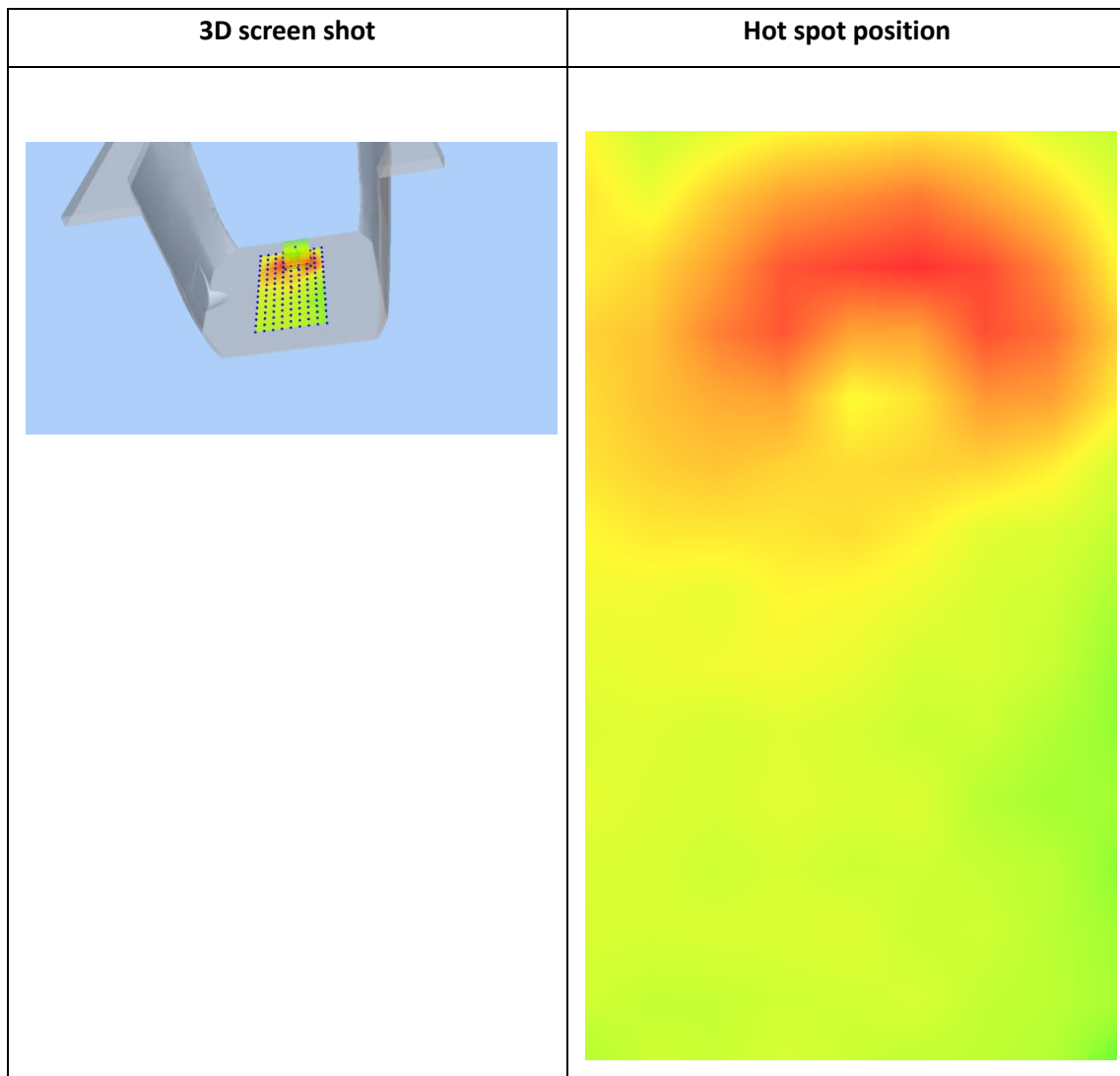
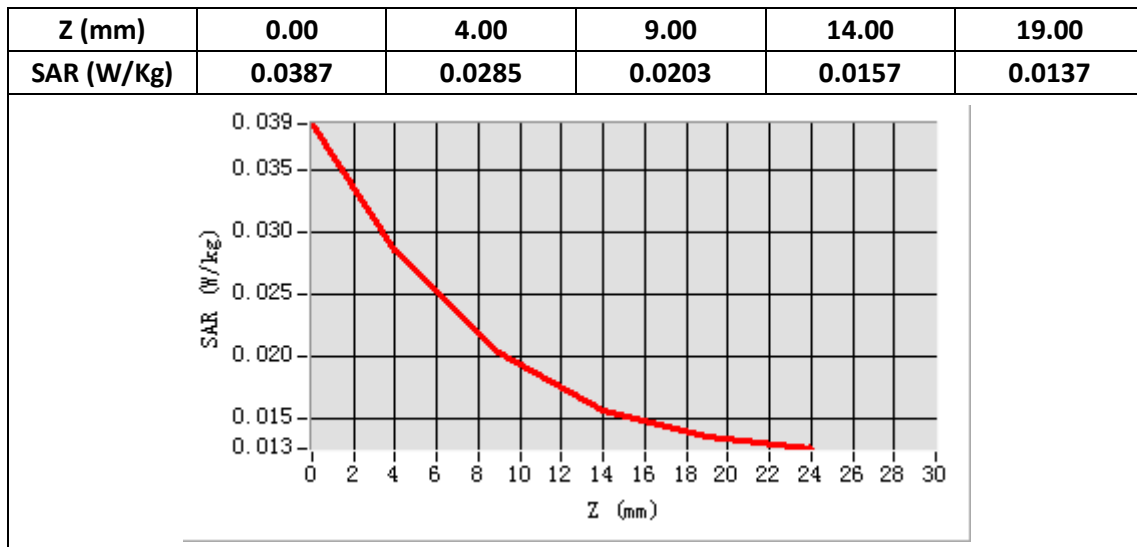
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	710
Relative permittivity (real part)	55.53
Relative permittivity (imaginary part)	22.80
Conductivity (S/m)	0.95
Variation (%)	-1.74
ConvF:	1.93



Maximum location: X=9.00, Y=49.00

SAR Peak: 0.04W/kg

SAR 10g (W/Kg)	0.019413
SAR 1g (W/Kg)	0.027757





## Plot 27: LTE Band25, 20MHz,Right Cheek, Middle

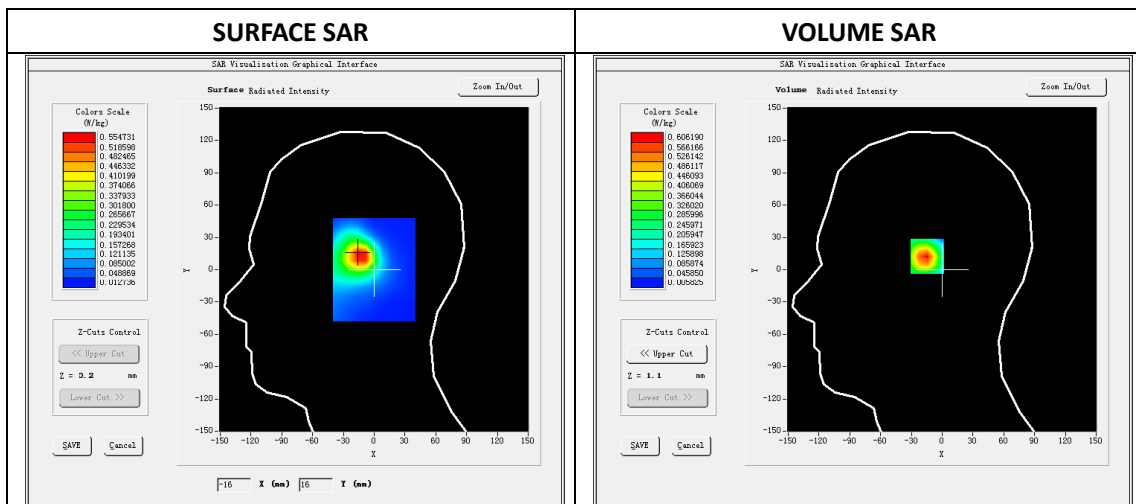
Type: Phone measurement  
 Date of measurement: 03/18/2019  
 Measurement duration: 22 minutes 06 seconds  
 Mobile Phone IMEI number: --

**A. Experimental conditions.**

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Cheek
Band	LTE Band 25
Channels	26365
Signal	LTE (Duty cycle: 1:1)

**B. SAR Measurement Results**

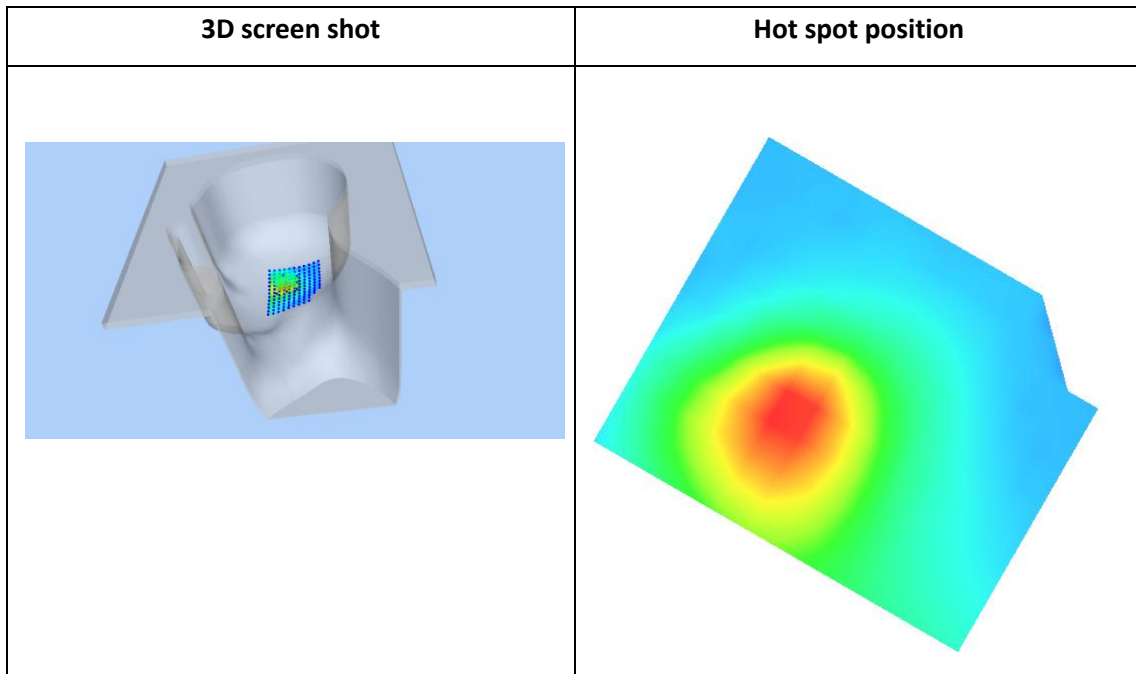
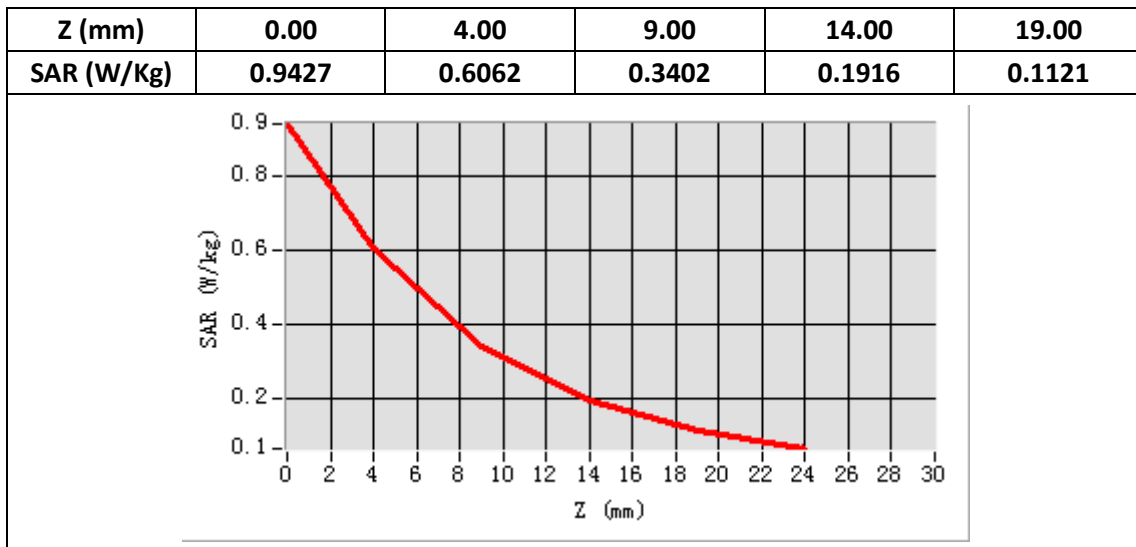
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1882.5
Relative permittivity (real part)	40.60
Relative permittivity (imaginary part)	13.16
Conductivity (S/m)	1.39
Variation (%)	-2.55
ConvF:	2.34



Maximum location: X=-12.00, Y=13.00

SAR Peak: 0.96W/kg

SAR 10g (W/Kg)	0.291443
SAR 1g (W/Kg)	0.575561



**Plot 28: LTE Band25, 20MHz, Back, Middle,10mm**

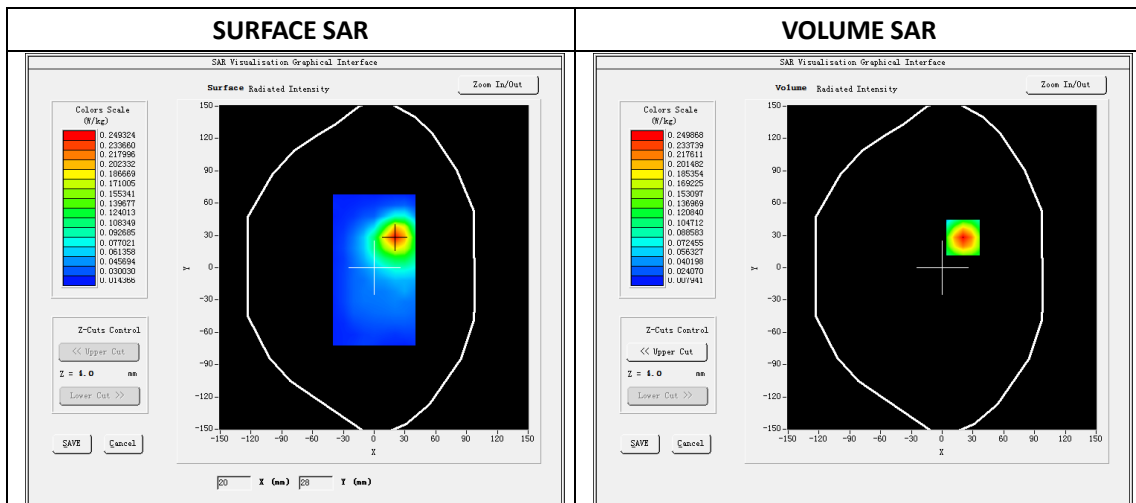
Type: Phone measurement  
 Date of measurement: 03/18/2019  
 Measurement duration: 22 minutes 17 seconds  
 Mobile Phone IMEI number: --

**A. Experimental conditions.**

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	LTE Band 25
Channels	26365
Signal	LTE (Duty cycle: 1:1)

**B. SAR Measurement Results**

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1882.5
Relative permittivity (real part)	55.43
Relative permittivity (imaginary part)	22.15
Conductivity (S/m)	0.95
Variation (%)	-2.35
ConvF:	2.39

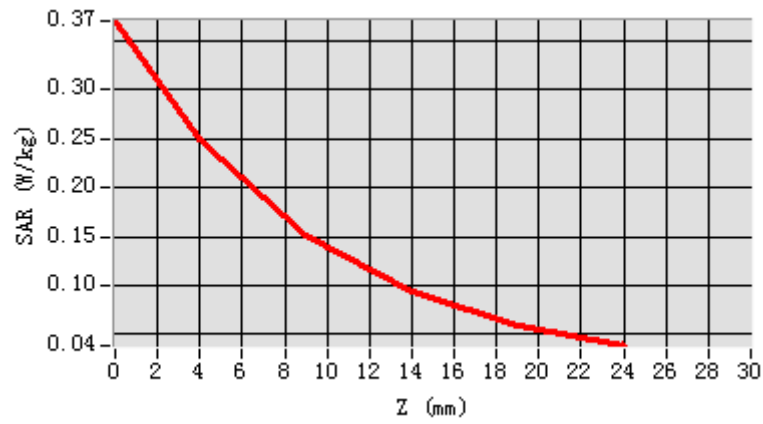


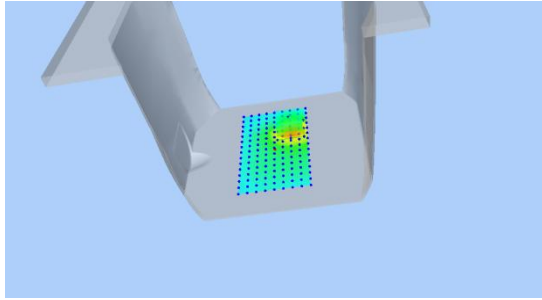
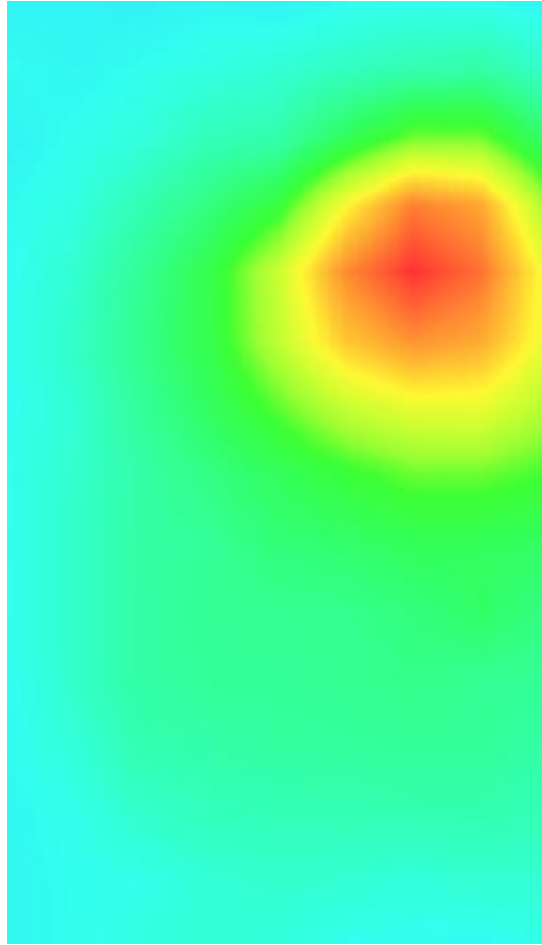
Maximum location: X=20.00, Y=28.00

SAR Peak: 0.37W/kg

SAR 10g (W/Kg)	0.133120
SAR 1g (W/Kg)	0.237719

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.3706	0.2499	0.1509	0.0928	0.0598



3D screen shot	Hot spot position
 <p>A 3D perspective view of a grey, L-shaped device. A grid of small colored dots is overlaid on the device's surface, with a prominent red and yellow hot spot in the center of the grid.</p>	 <p>A 2D heatmap visualization of the hot spot. The background is cyan, transitioning through green to a central red and yellow circular region, indicating the location of maximum SAR exposure.</p>

## Plot 29: LTE Band26, 15MHz,Right Cheek, Middle

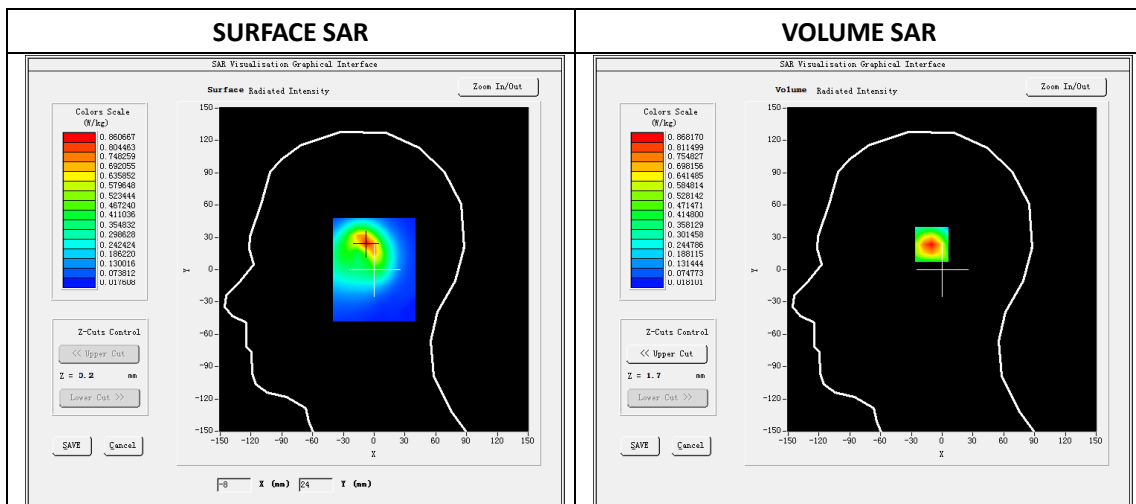
Type: Phone measurement  
 Date of measurement: 03/16/2019  
 Measurement duration: 22 minutes 24 seconds  
 Mobile Phone IMEI number: --

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

**B. SAR Measurement Results**

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	813.5
Relative permittivity (real part)	41.32
Relative permittivity (imaginary part)	18.42
Conductivity (S/m)	0.87
Variation (%)	-1.79
ConvF:	1.92

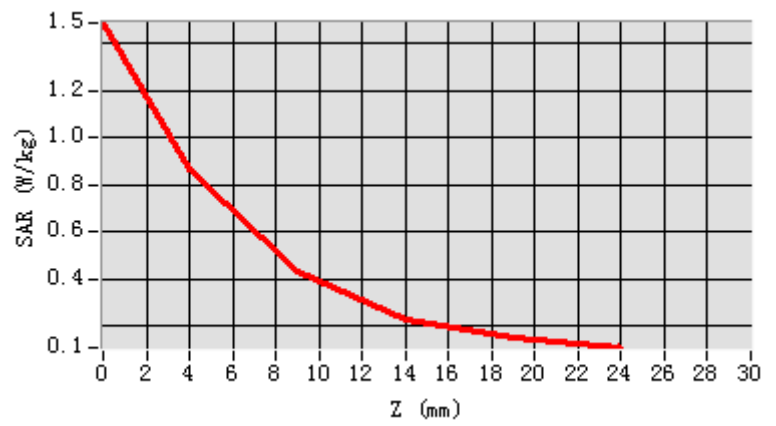


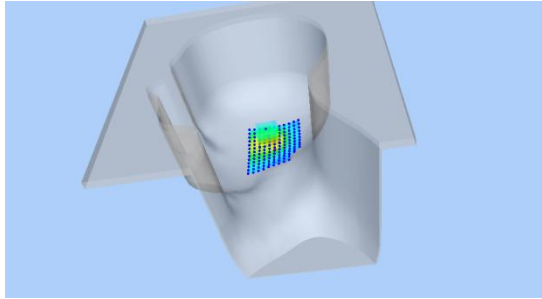
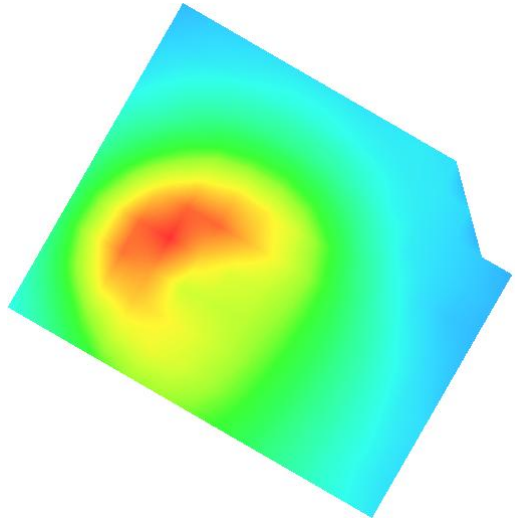
Maximum location: X=-8.00, Y=-25.00

SAR Peak: 1.49W/kg

SAR 10g (W/Kg)	0.418501
SAR 1g (W/Kg)	0.724249

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.4877	0.8682	0.4312	0.2289	0.1468



3D screen shot	Hot spot position
	

**Plot 30: LTE Band26, 15MHz, Back, Middle,10mm**

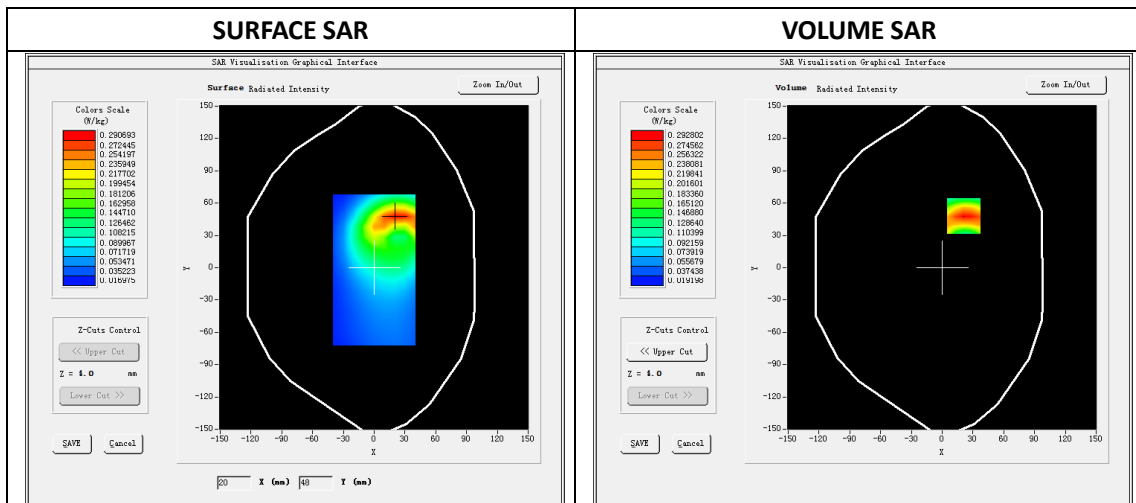
Type: Phone measurement  
 Date of measurement: 03/16/2019  
 Measurement duration: 22 minutes 34 seconds  
 Mobile Phone IMEI number: --

**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)	813.5
Relative permittivity (real part)	55.23
Relative permittivity (imaginary part)	22.12
Conductivity (S/m)	0.98
Variation (%)	-3.77
ConvF:	1.99

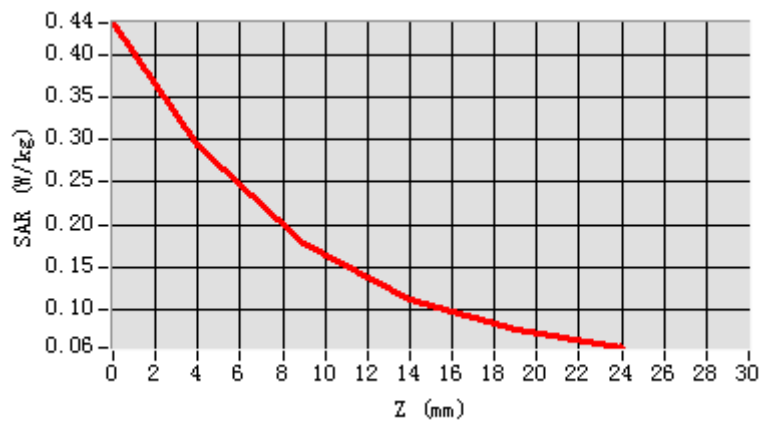


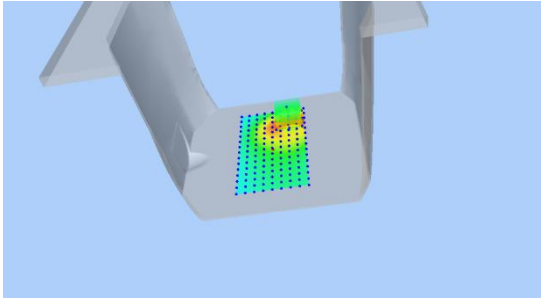
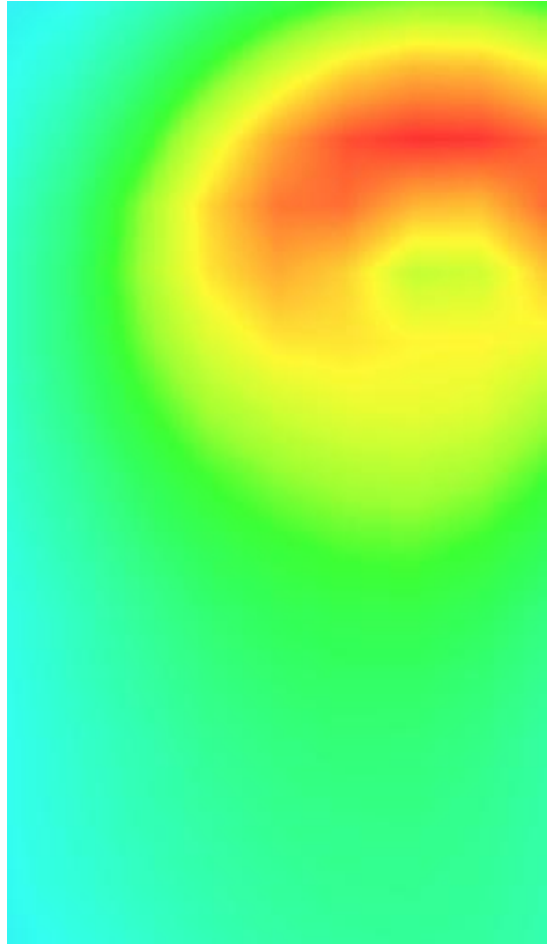
Maximum location: X=21.00, Y=48.00

SAR Peak: 0.44W/kg

SAR 10g (W/Kg)	0.164707
SAR 1g (W/Kg)	0.280047

<b>Z (mm)</b>	<b>0.00</b>	<b>4.00</b>	<b>9.00</b>	<b>14.00</b>	<b>19.00</b>
<b>SAR (W/Kg)</b>	<b>0.4371</b>	<b>0.2928</b>	<b>0.1773</b>	<b>0.1121</b>	<b>0.0770</b>



3D screen shot	Hot spot position
	



### Plot 31: LTE Band30, 10MHz,Right Cheek, Middle

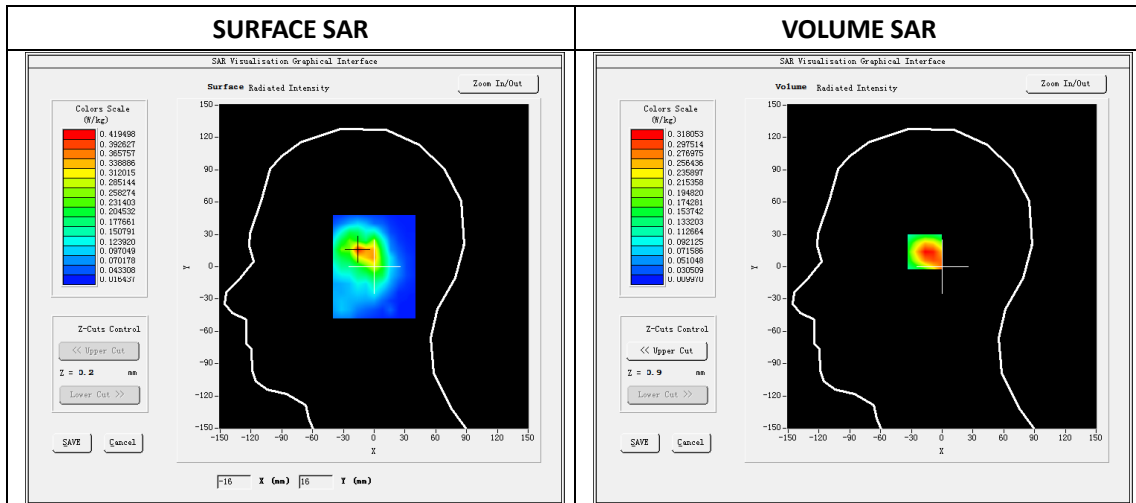
Type: Phone measurement  
 Date of measurement: 03/19/2019  
 Measurement duration: 22 minutes 35 seconds  
 Mobile Phone IMEI number: --

**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 30
Channels	27110
Signal	LTE (Duty cycle: 1:1)

**B. SAR Measurement Results**

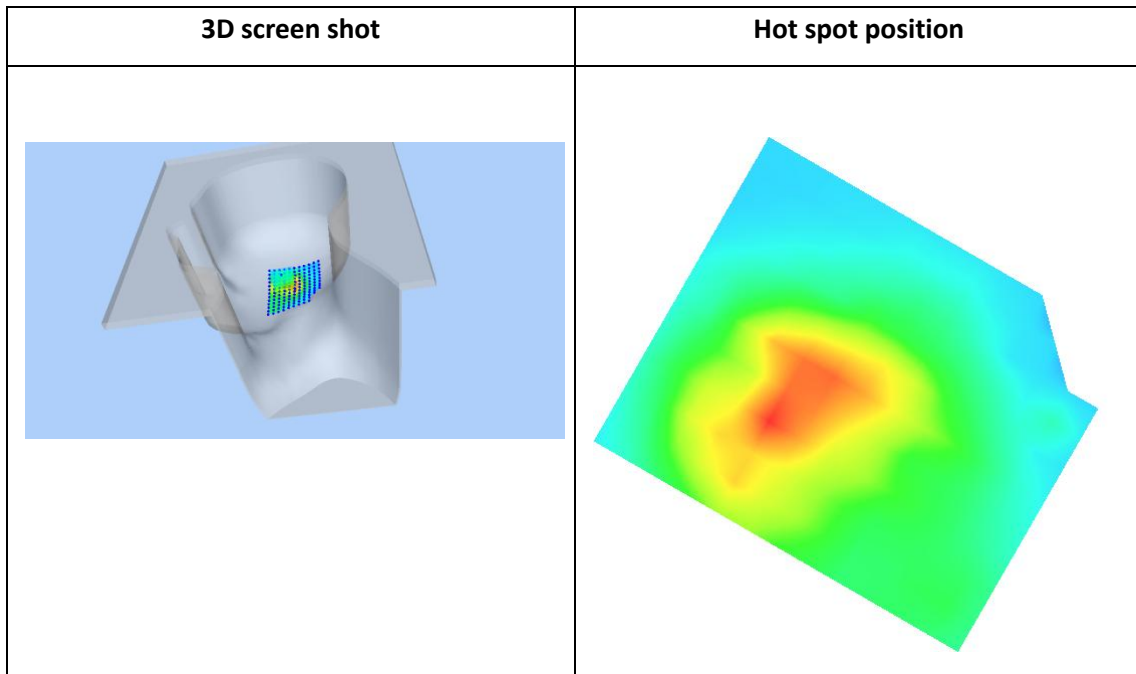
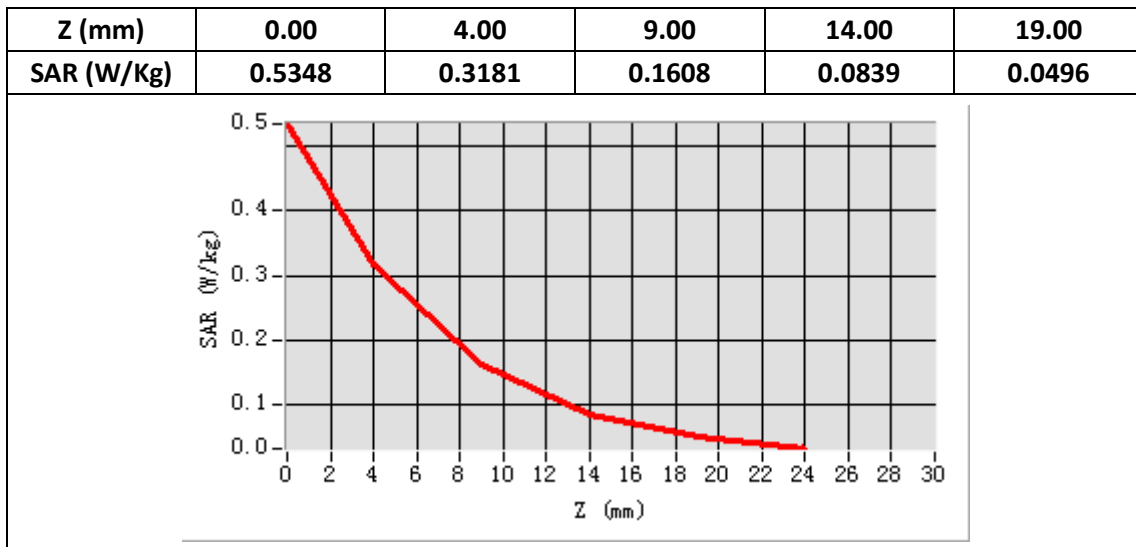
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2310
Relative permittivity (real part)	39.26
Relative permittivity (imaginary part)	13.44
Conductivity (S/m)	1.81
Variation (%)	-2.26
ConvF:	2.37



Maximum location: X=-15.00, Y=15.00

SAR Peak: 0.54W/kg

SAR 10g (W/Kg)	0.161669
SAR 1g (W/Kg)	0.304141



### Plot 32: LTE Band30, 10MHz, Back, Middle,10mm

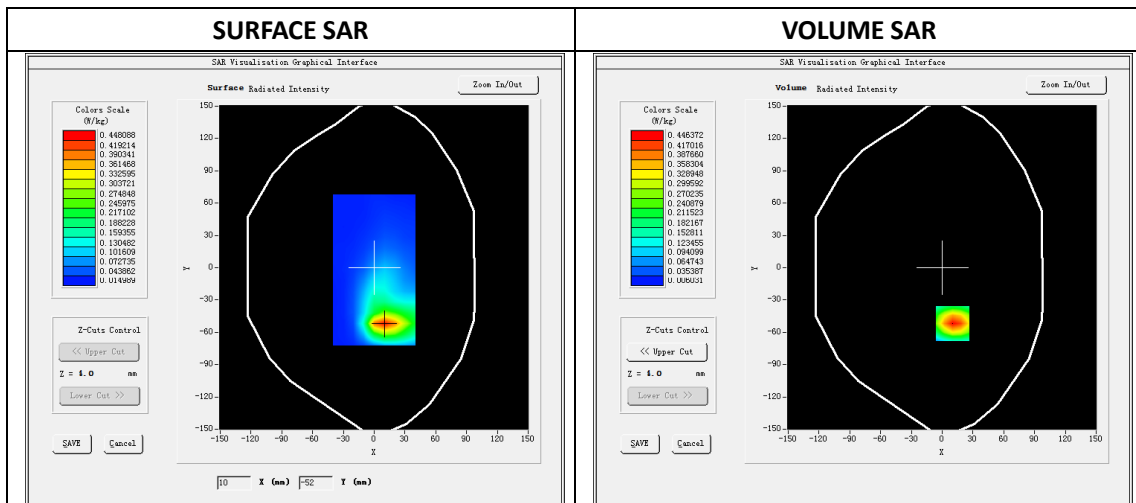
Type: Phone measurement  
 Date of measurement: 03/19/2019  
 Measurement duration: 22 minutes 35 seconds  
 Mobile Phone IMEI number: --

**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 30
Channels	27110
Signal	LTE (Duty cycle: 1:1)

**B. SAR Measurement Results**

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2310
Relative permittivity (real part)	52.61
Relative permittivity (imaginary part)	14.17
Conductivity (S/m)	1.93
Variation (%)	-1.01
ConvF:	2.46

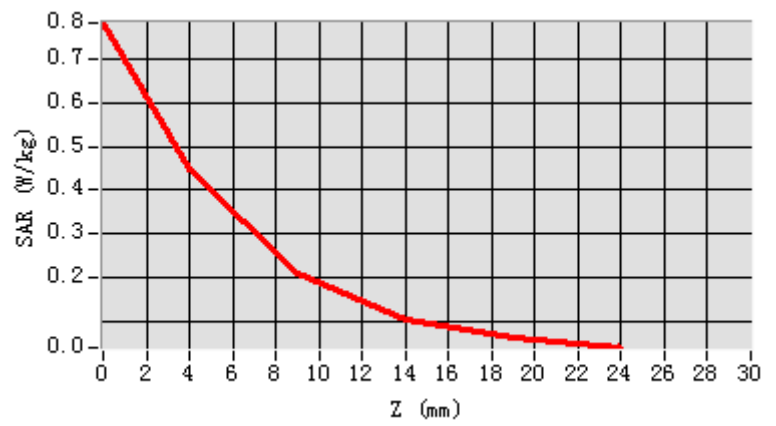


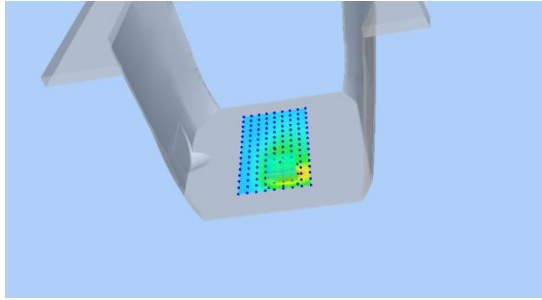
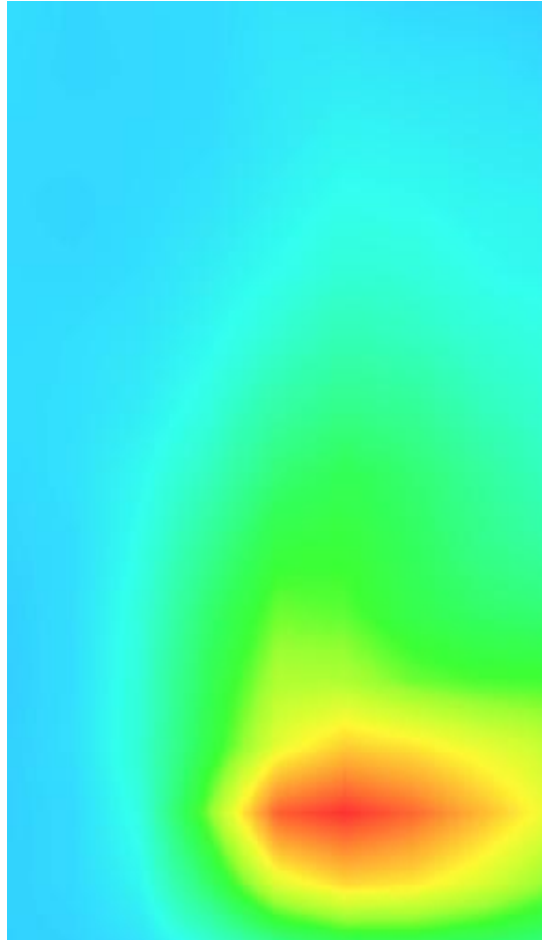
Maximum location: X=10.00, Y=-52.00

SAR Peak: 0.78W/kg

SAR 10g (W/Kg)	0.208075
SAR 1g (W/Kg)	0.418672

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.7820	0.4464	0.2121	0.1048	0.0613



3D screen shot	Hot spot position
	

### Plot 33: LTE Band41, 20MHz,Right Cheek, Middle

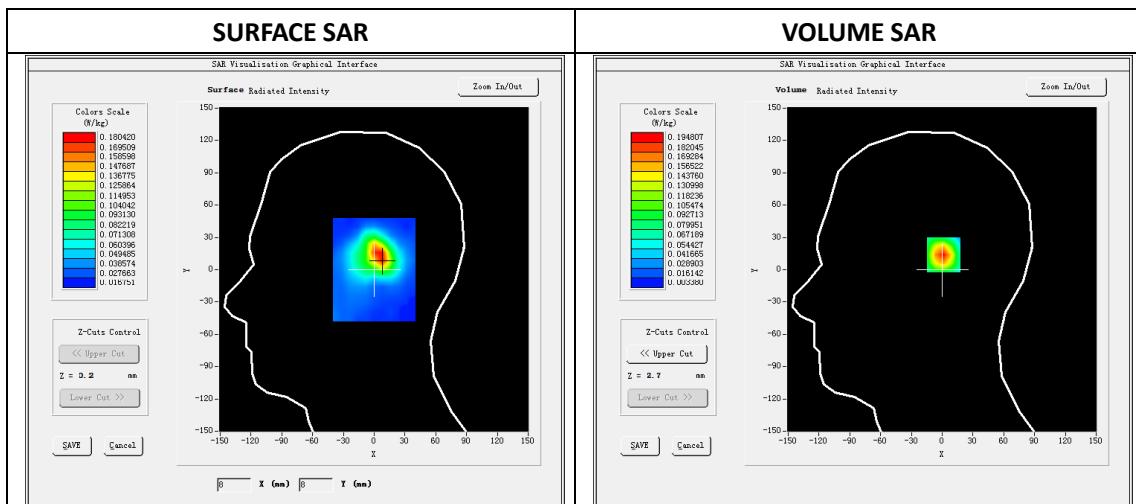
Type: Phone measurement  
 Date of measurement: 03/19/2019  
 Measurement duration: 22 minutes 35 seconds  
 Mobile Phone IMEI number: --

**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 41
Channels	39150
Signal	LTE (Duty cycle: 63%)

**B. SAR Measurement Results**

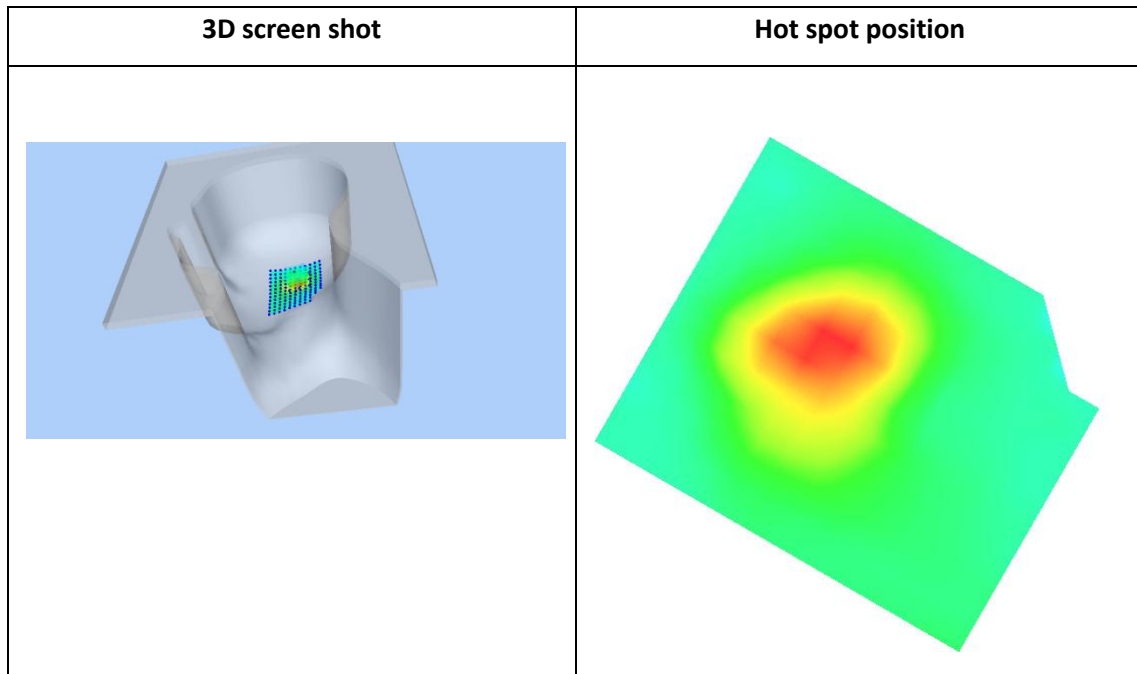
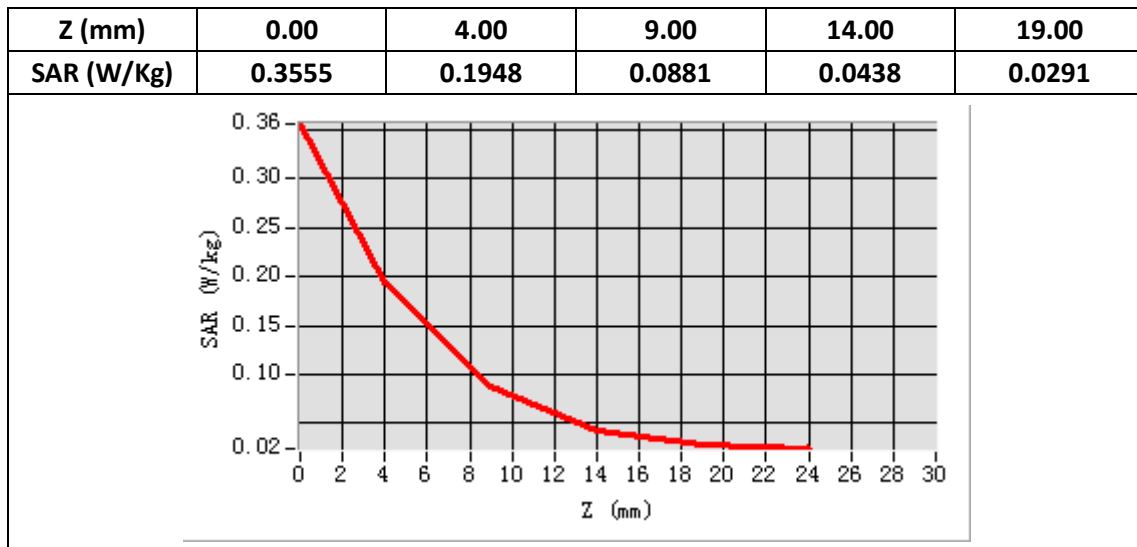
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2350
Relative permittivity (real part)	39.26
Relative permittivity (imaginary part)	13.44
Conductivity (S/m)	1.81
Variation (%)	-2.59
ConvF:	2.37



Maximum location: X=6.00, Y=14.00

SAR Peak: 0.36W/kg

SAR 10g (W/Kg)	0.088411
SAR 1g (W/Kg)	0.181872



**Plot 34: LTE Band41, 20MHz, Back, Middle,10mm**

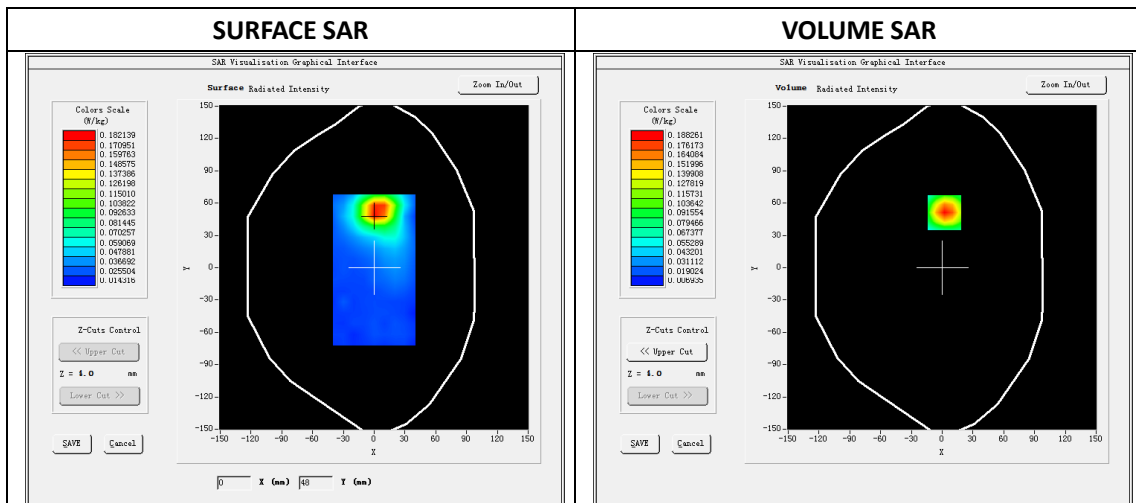
Type: Phone measurement  
 Date of measurement: 03/19/2019  
 Measurement duration: 22 minutes 08 seconds  
 Mobile Phone IMEI number: --

**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 41
Channels	39150
Signal	LTE (Duty cycle: 63%)

**B. SAR Measurement Results**

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2350
Relative permittivity (real part)	52.61
Relative permittivity (imaginary part)	14.17
Conductivity (S/m)	1.93
Variation (%)	-2.80
ConvF:	2.46

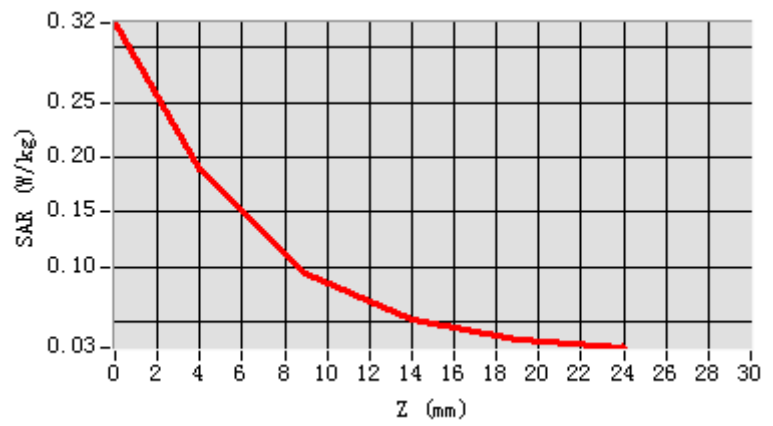


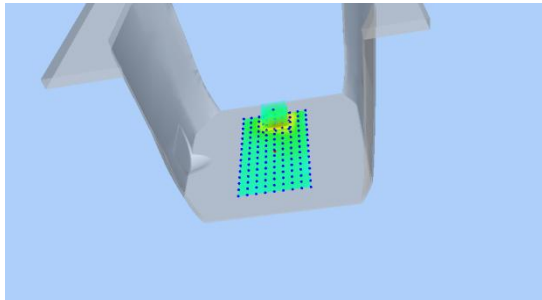
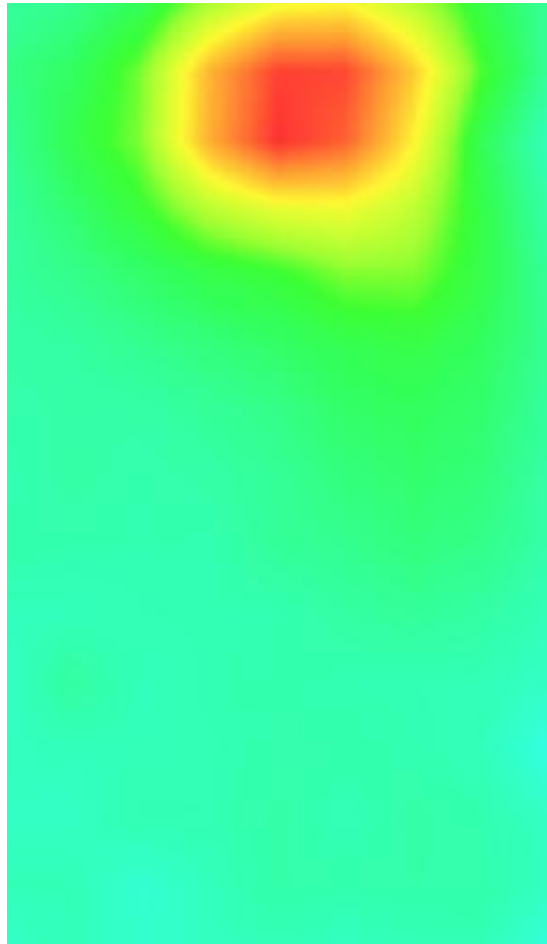
Maximum location: X=2.00, Y=51.00

SAR Peak: 0.32W/kg

SAR 10g (W/Kg)	0.092965
SAR 1g (W/Kg)	0.177376

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.3222	0.1883	0.0941	0.0509	0.0338



3D screen shot	Hot spot position
	



**Plot 35: LTE Band66, 20MHz,Right Cheek, Middle**

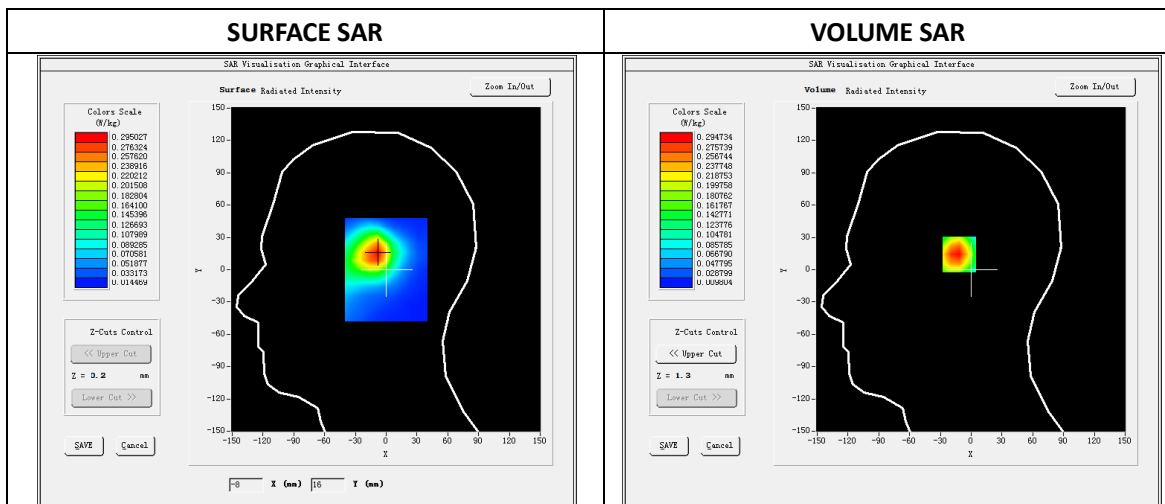
Type: Phone measurement  
 Date of measurement: 03/17/2019  
 Measurement duration: 22 minutes 11 seconds  
 Mobile Phone IMEI number: --

**A. Experimental conditions.**

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

**B. SAR Measurement Results**

<b>E-Field Probe</b>	SATIMO SN_27/15_EPG0261
<b>Frequency (MHz)</b>	1732.5
<b>Relative permittivity (real part)</b>	40.34
<b>Relative permittivity (imaginary part)</b>	13.10
<b>Conductivity (S/m)</b>	1.31
<b>Variation (%)</b>	-2.70
<b>ConvF:</b>	5.73

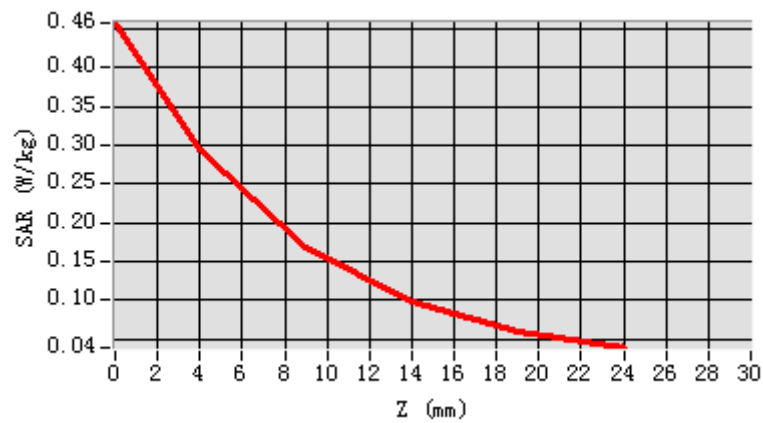


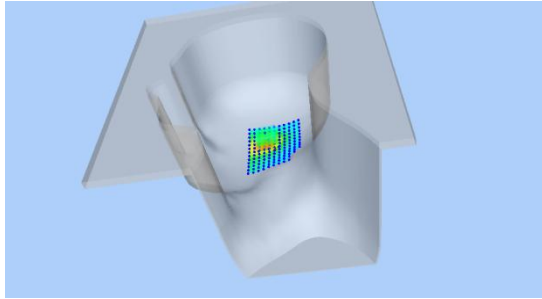
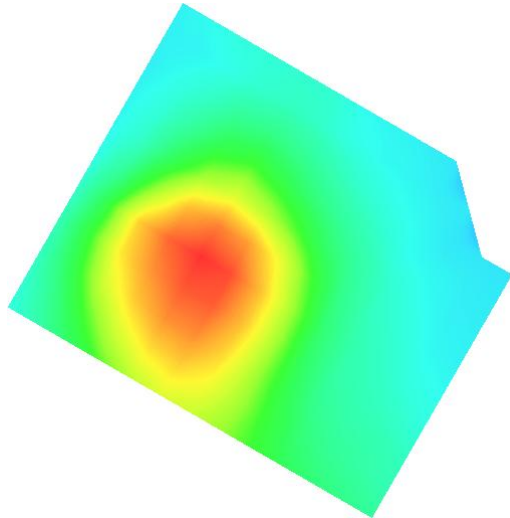
**Maximum location: X=-9.00, Y=15.00**

**SAR Peak: 0.46W/kg**

<b>SAR 10g (W/Kg)</b>	0.158326
<b>SAR 1g (W/Kg)</b>	0.284740

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4575	0.2947	0.1674	0.0976	0.0612



3D screen shot	Hot spot position
	

**Plot 36: LTE Band66, 20MHz, Back, Middle,10mm**

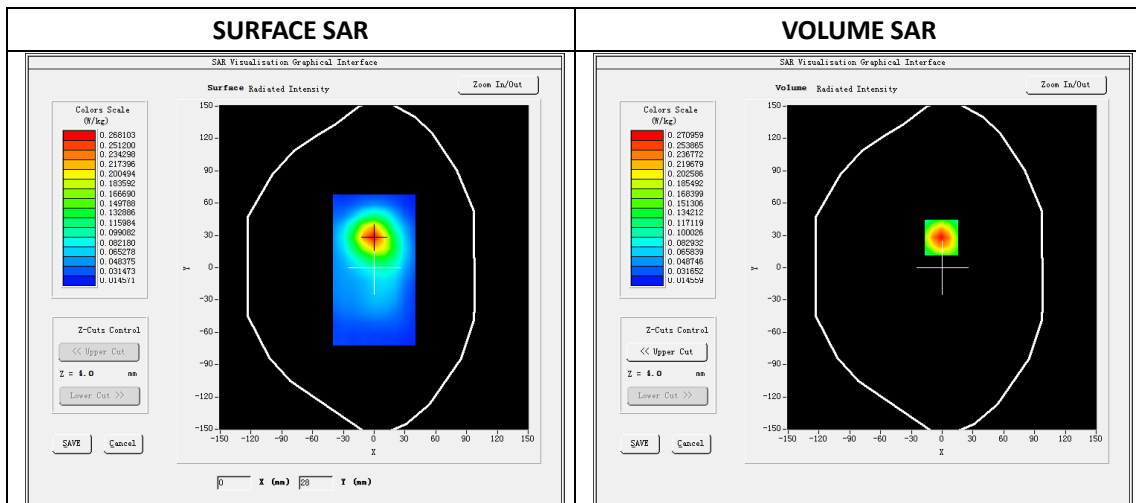
Type: Phone measurement  
 Date of measurement: 03/17/2019  
 Measurement duration: 22 minutes 44 seconds  
 Mobile Phone IMEI number: --

**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)	55.39
Relative permittivity (imaginary part)	15.20
Conductivity (S/m)	1.52
Variation (%)	-4.71
ConvF:	2.14

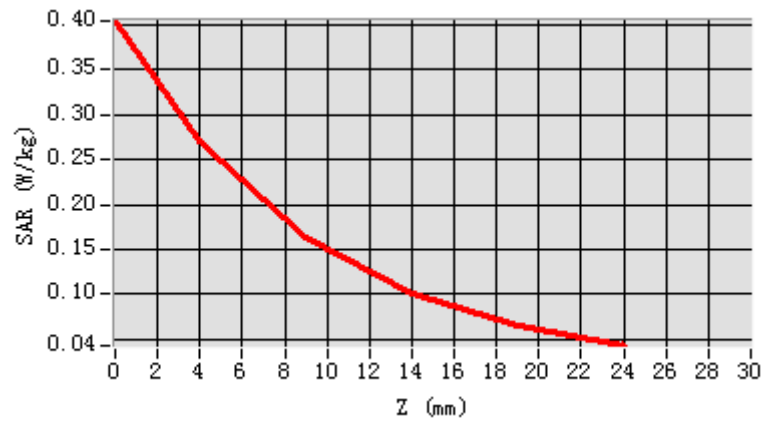


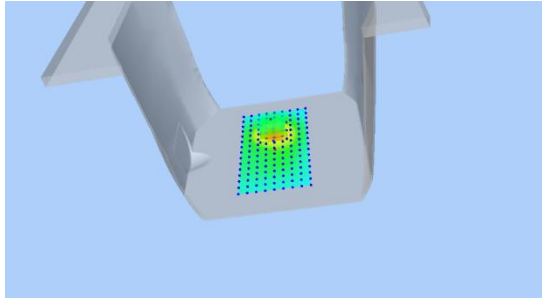
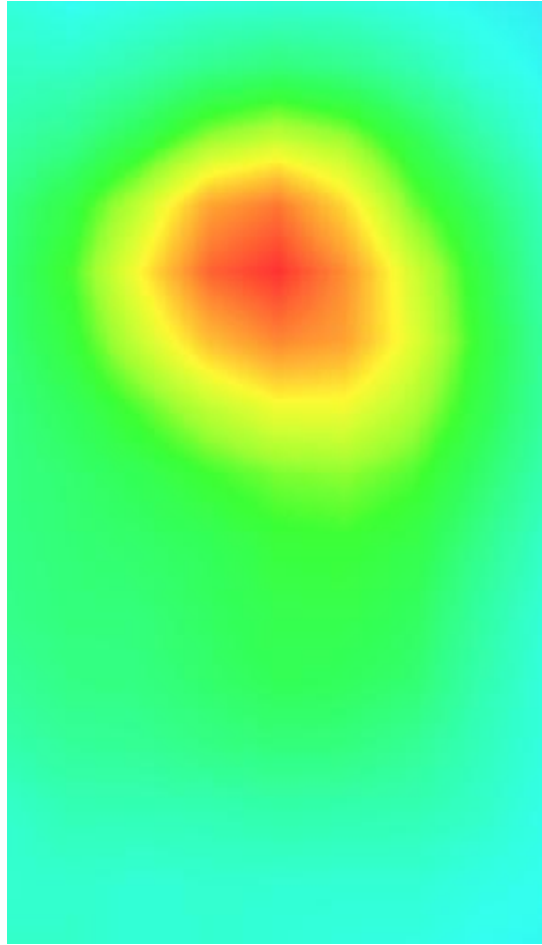
**Maximum location: X=1.00, Y=28.00**

**SAR Peak: 0.40W/kg**

SAR 10g (W/Kg)	0.145866
SAR 1g (W/Kg)	0.257610

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4045	0.2710	0.1627	0.1001	0.0652



3D screen shot	Hot spot position
	

**Plot 37: GSM850, Right Cheek, Middle**

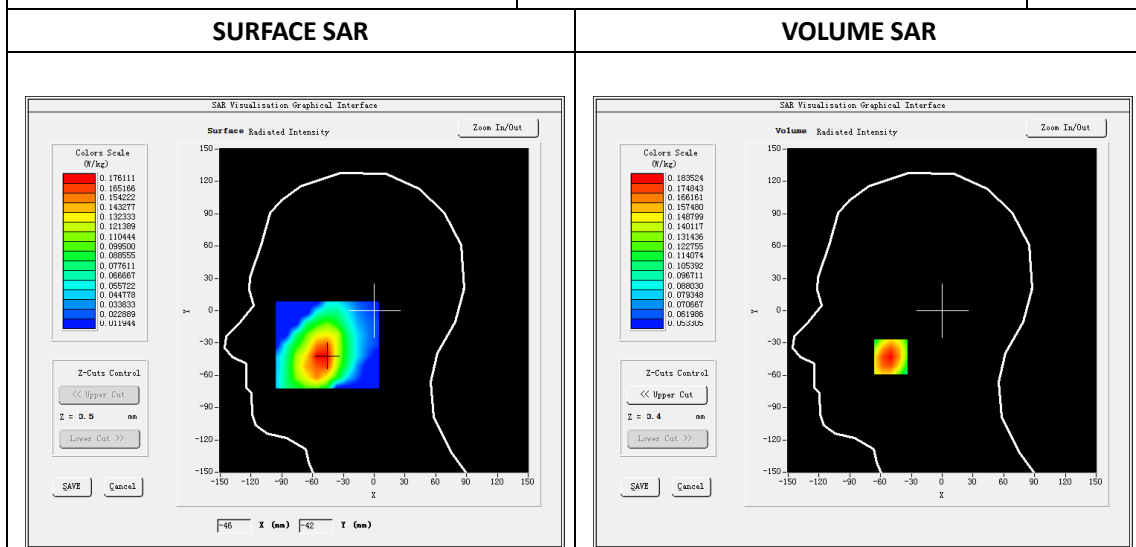
Type: Phone measurement  
 Date of measurement: 03/16/2019  
 Measurement duration: 22 minutes 31 seconds  
 Mobile Phone IMEI number: --

**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**

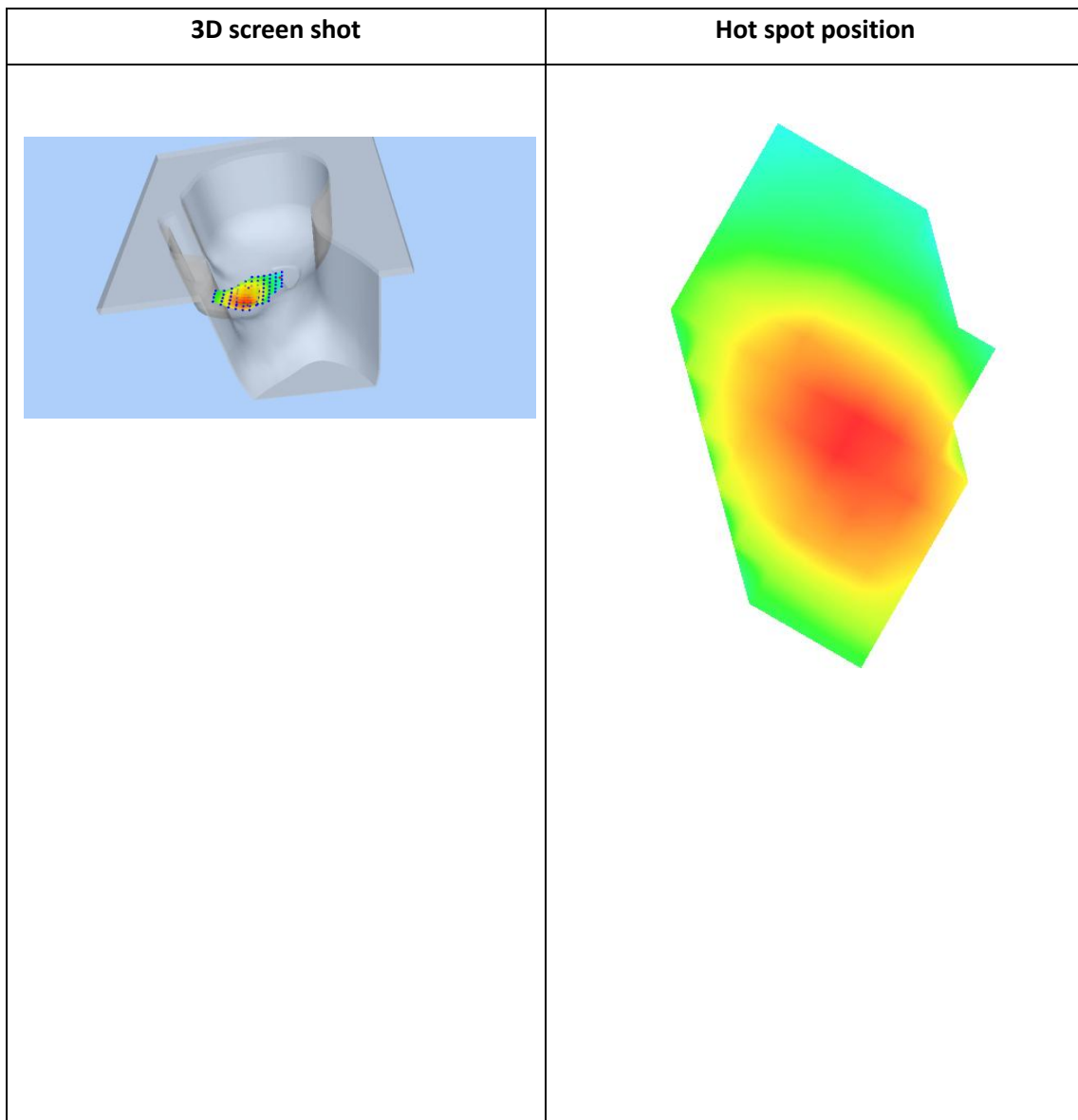
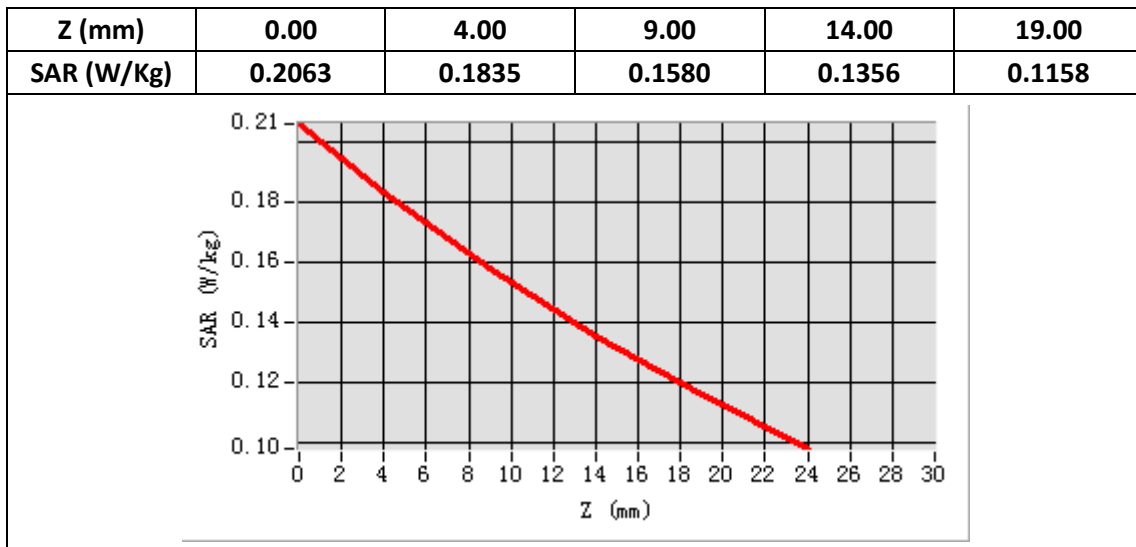
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.6
Relative permittivity (real part)	41.32
Relative permittivity (imaginary part)	18.42
Conductivity (S/m)	0.87
Variation (%)	2.00
ConvF:	1.92



**Maximum location: X=-50.00, Y=-43.00**

**SAR Peak: 0.21W/kg**

SAR 10g (W/Kg)	0.143515
SAR 1g (W/Kg)	0.181556



### Plot 38: GPRS850, Back, Middle,10mm

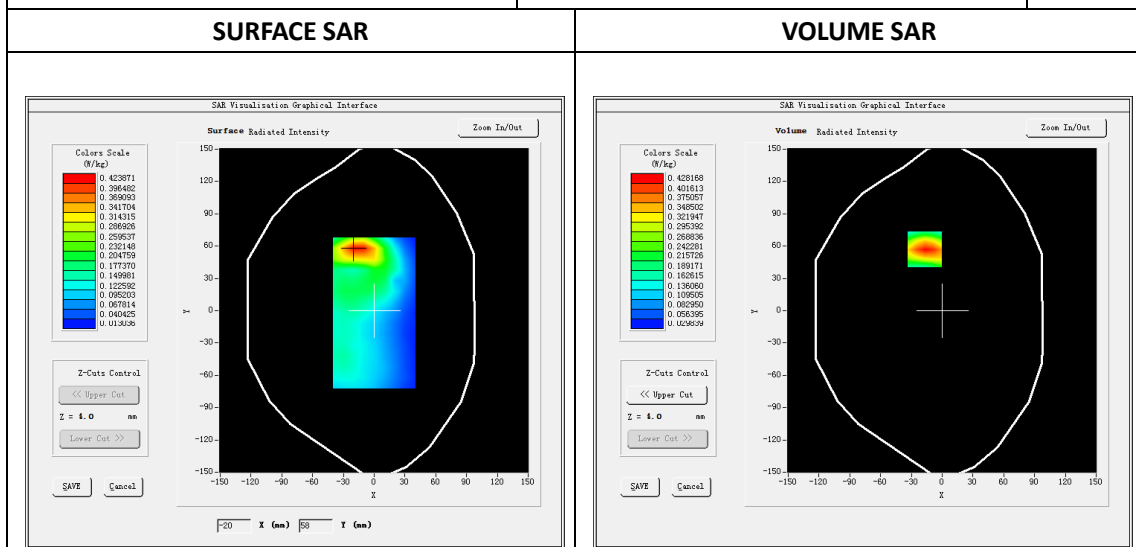
Type: Phone measurement  
 Date of measurement: 03/16/2019  
 Measurement duration: 22 minutes 31 seconds  
 Mobile Phone IMEI number: --

**A. Experimental conditions.**

<b>Area Scan</b>	dx=8mm dy=8mm
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Back
<b>Band</b>	GSPRS850_4Tx
<b>Channels</b>	190
<b>Signal</b>	GPRS(Duty cycle: 1:2)

**B. SAR Measurement Results**

<b>E-Field Probe</b>	SATIMO SN_27/15_EPG0261
<b>Frequency (MHz)</b>	836.6
<b>Relative permittivity (real part)</b>	55.23
<b>Relative permittivity (imaginary part)</b>	21.12
<b>Conductivity (S/m)</b>	0.98
<b>Variation (%)</b>	2.61
<b>ConvF:</b>	1.99

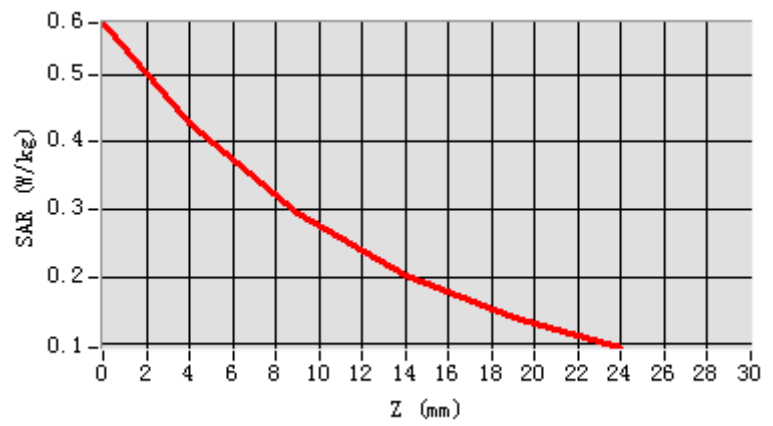


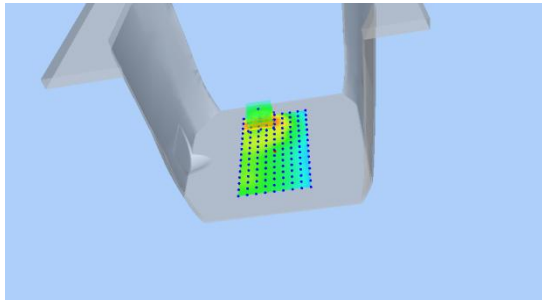
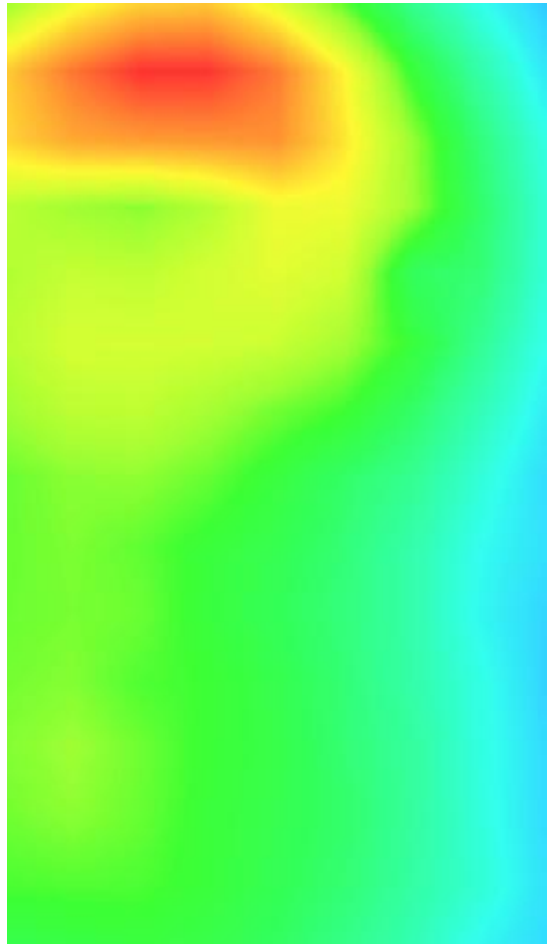
**Maximum location: X=-17.00, Y=57.00**

**SAR Peak: 0.58 W/kg**

<b>SAR 10g (W/Kg)</b>	0.249360
<b>SAR 1g (W/Kg)</b>	0.406499

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5762	0.4282	0.2934	0.2018	0.1400



3D screen shot	Hot spot position
	



## Plot 39: GSM1900, Right Cheek Middle

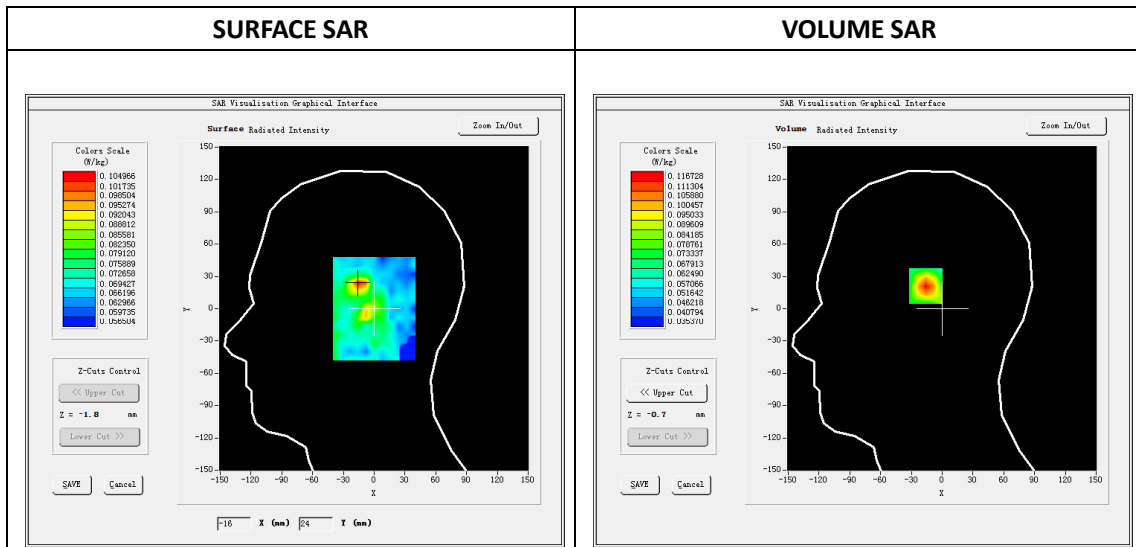
Type: Phone measurement  
 Date of measurement: 03/18/2019  
 Measurement duration: 22 minutes 24 seconds  
 Mobile Phone IMEI number: --

**A. Experimental conditions.**

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

**B. SAR Measurement Results**

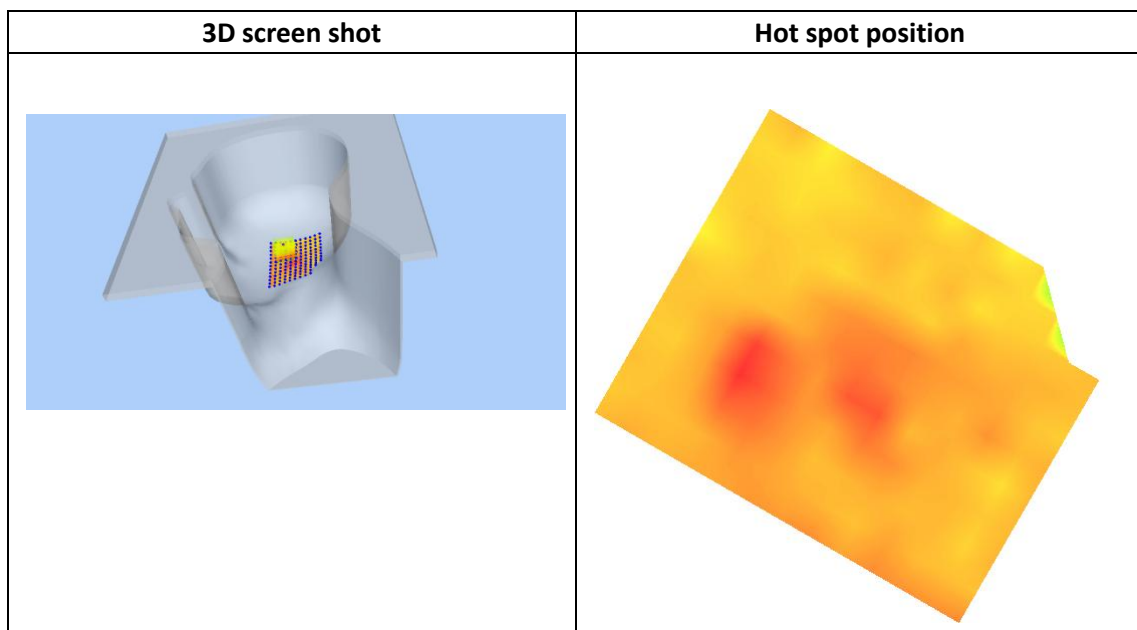
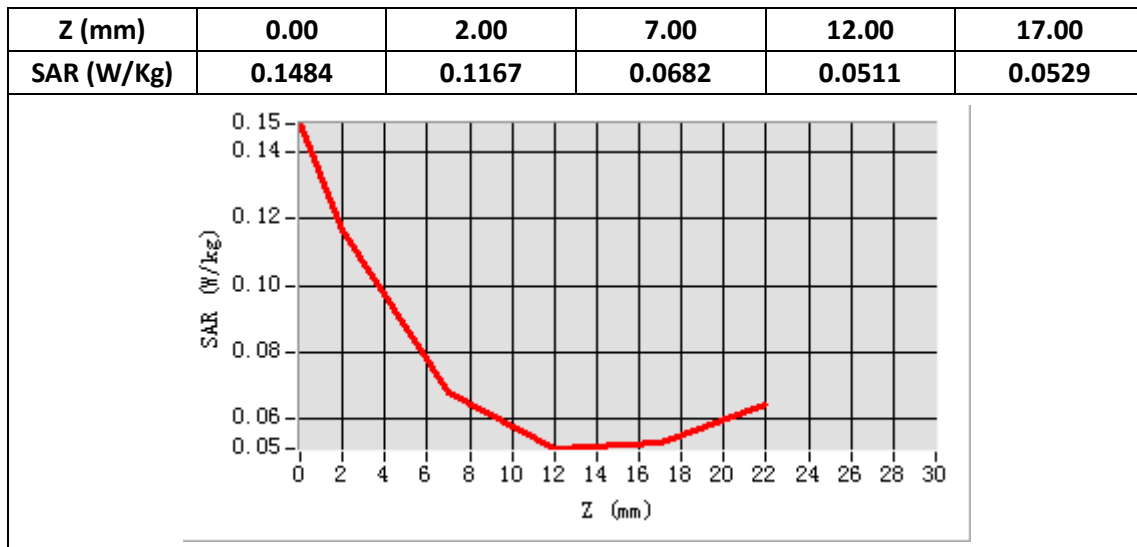
<b>E-Field Probe</b>	SATIMO SN_27/15_EPG0261
<b>Frequency (MHz)</b>	1880
<b>Relative permittivity (real part)</b>	40.60
<b>Relative permittivity (imaginary part)</b>	13.16
<b>Conductivity (S/m)</b>	1.39
<b>Variation (%)</b>	-1.84
<b>ConvF:</b>	2.34



Maximum location: X=-15.00, Y=23.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.007767
SAR 1g (W/Kg)	0.018238



**Plot40: GPRS1900, Back Middle ,10mm**

Type: Phone measurement

Date of measurement: 03/18/2019

Measurement duration: 22 minutes 23 seconds

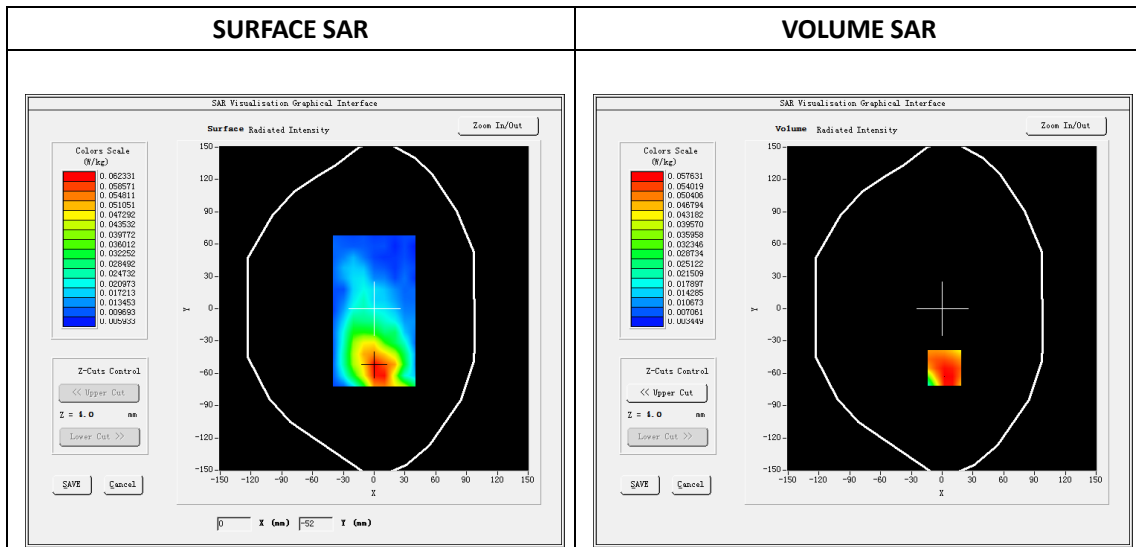
Mobile Phone IMEI number: --

**A. Experimental conditions.**

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

**B. SAR Measurement Results**

<b>E-Field Probe</b>	SATIMO SN_27/15_EPG0261
<b>Frequency (MHz)</b>	1880
<b>Relative permittivity (real part)</b>	53.42
<b>Relative permittivity (imaginary part)</b>	14.30
<b>Conductivity (S/m)</b>	1.51
<b>Variation (%)</b>	-2.82
<b>ConvF:</b>	2.39



Maximum location: X=2.00, Y=-55.00

SAR Peak: 0.08W/kg

SAR 10g (W/Kg)	0.045715
SAR 1g (W/Kg)	0.073034

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1053	0.0576	0.0339	0.0238	0.0147

