

Appendix B: SAR Measurement results Plots

Plot	Frequency/Mode	Testing Position and Channel	Test Date
1	GSM850/GPRS4Tx	Body Face, Middle ,10mm	2019/07/18
2	GSM1900/GPRS4Tx	Body Back Middle ,10mm	2019/07/22
3	WCDMA1900	Body Back, Middle ,10mm	2019/07/22
4	WCDMA850	Body Back, Middle ,10mm	2019/07/18
5	LTE Band2	Body Back, Middle ,10mm	2019/07/22
6	LTE Band4	Body Back, Middle ,10mm	2019/07/22
7	LTE Band5	Body Face, Middle ,10mm	2019/07/18
8	LTE Band7	Edge A, Middle ,10mm	2019/07/25
9	WIFI 2.4G Ant0 802.11b	Body Face, Middle ,10mm	2019/07/24
10	WIFI 2.4G Ant1 802.11b	Body Back, Middle ,10mm	2019/07/24

Plot 1: GPRS850, Face, Middle,10mm

Type: Phone measurement

Date of measurement: 07/18/2019

Measurement duration: 22 minutes 14 seconds

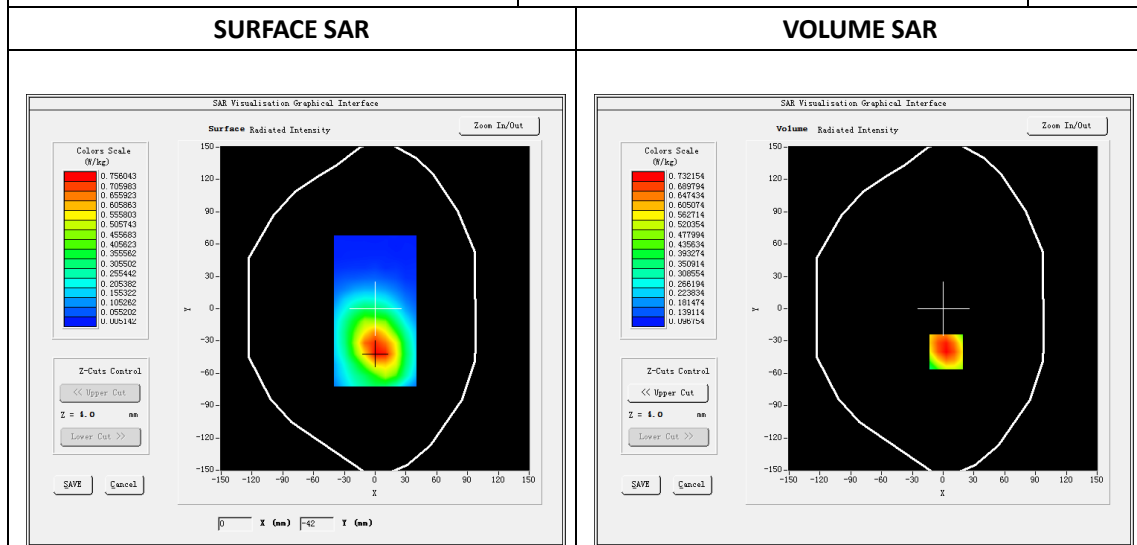
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

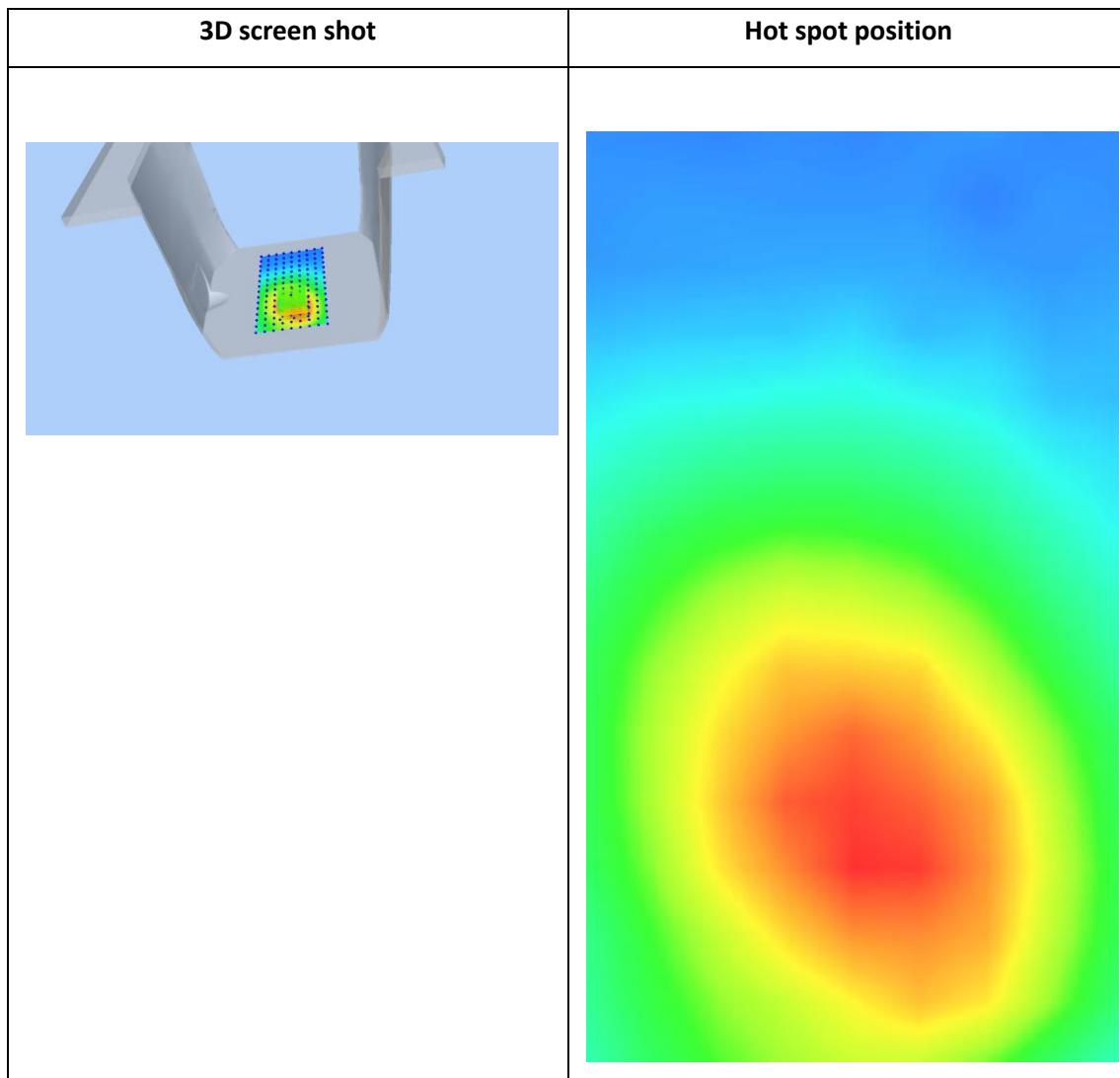
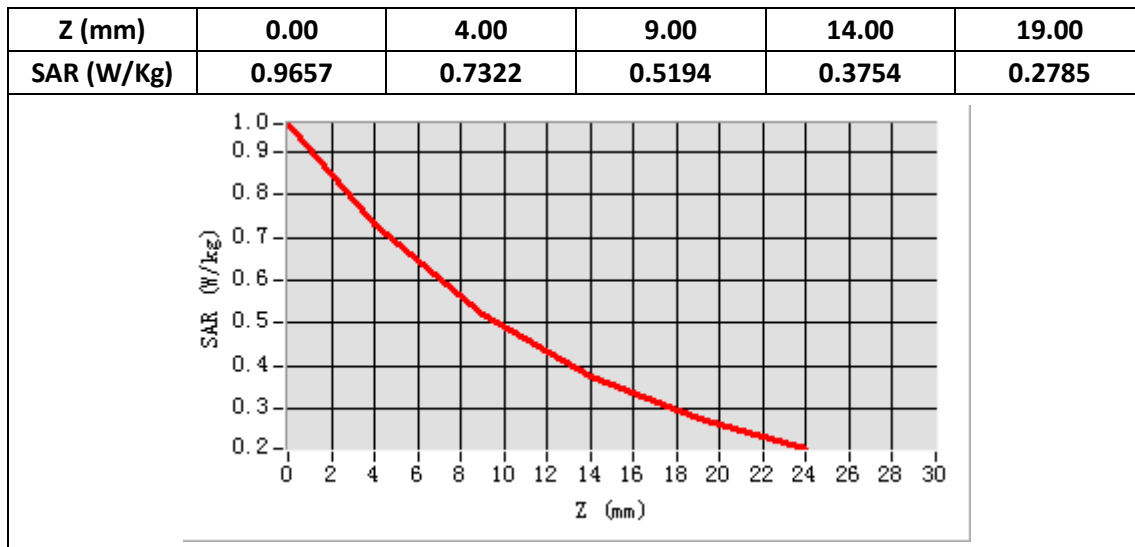
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.6
Relative permittivity (real part)	55.23
Relative permittivity (imaginary part)	20.26
Conductivity (S/m)	0.94
Variation (%)	1.08
ConvF:	1.99



Maximum location: X=3.00, Y=-40.00

SAR Peak: 0.97 W/kg

SAR 10g (W/Kg)	0.484329
SAR 1g (W/Kg)	0.715401



Plot2: GPRS1900, Back, Middle ,10mm

Type: Phone measurement

Date of measurement: 07/22/2019

Measurement duration: 22 minutes 18 seconds

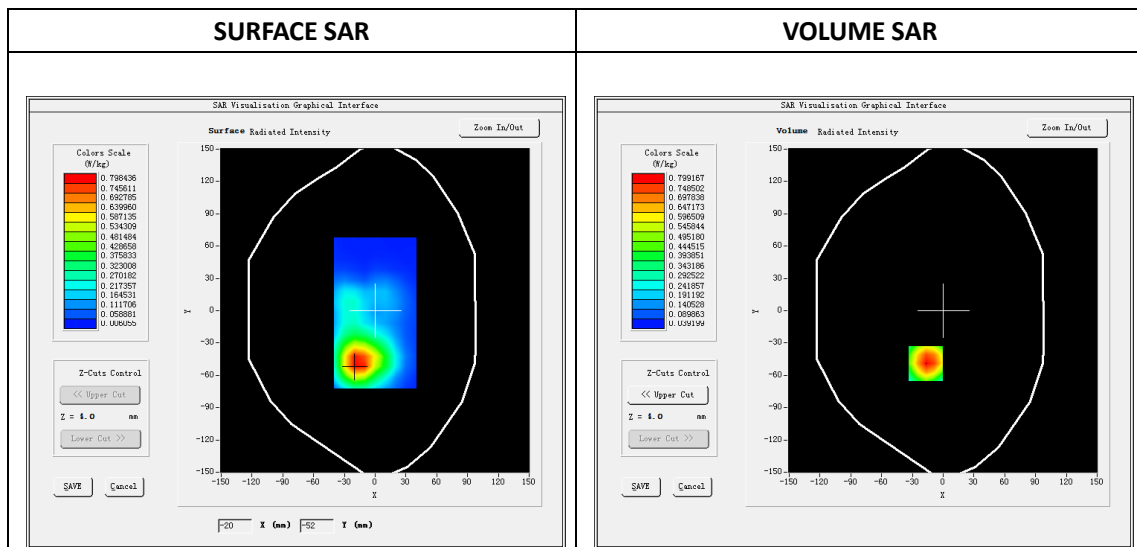
Mobile Phone IMEI number: --

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

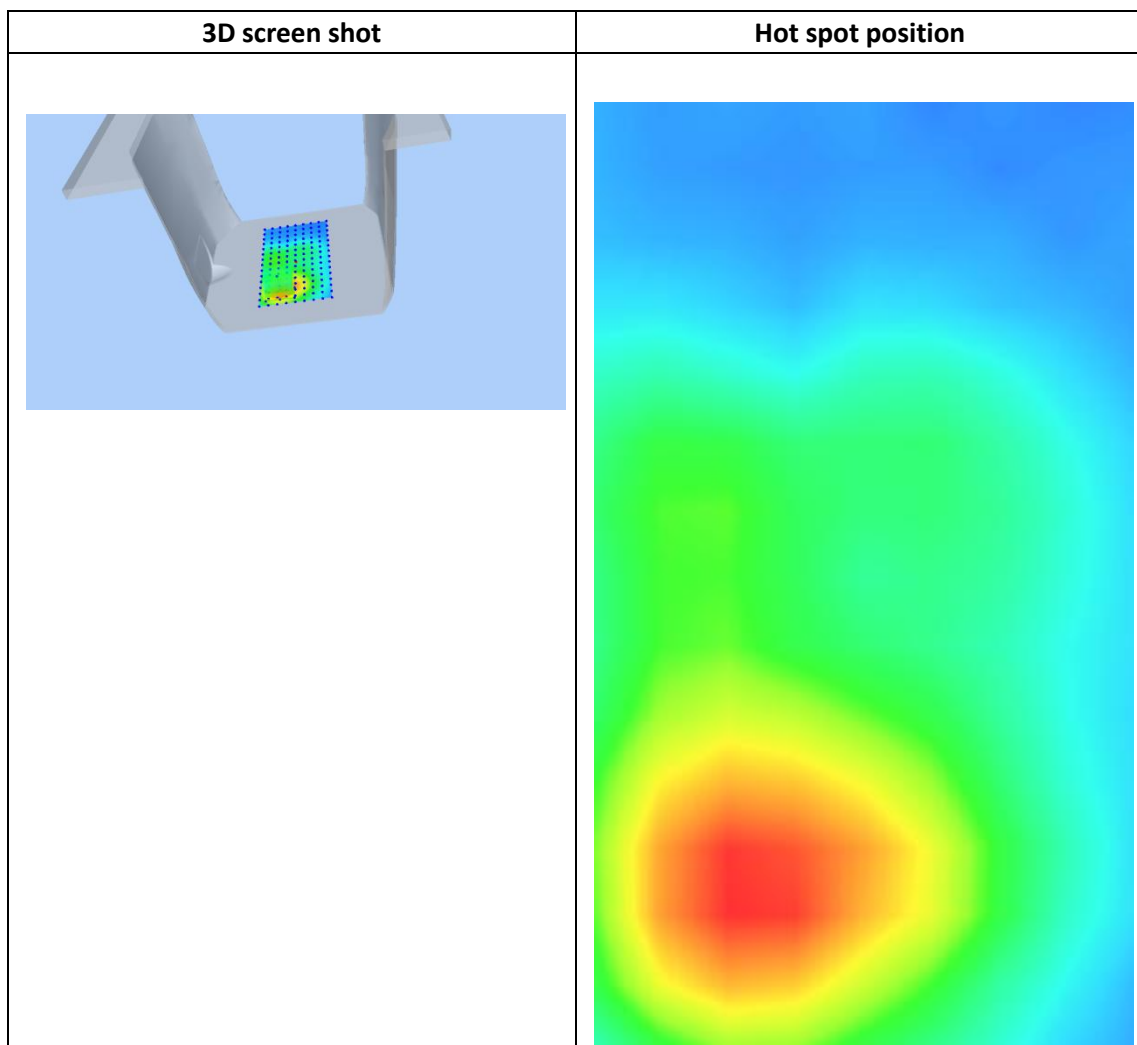
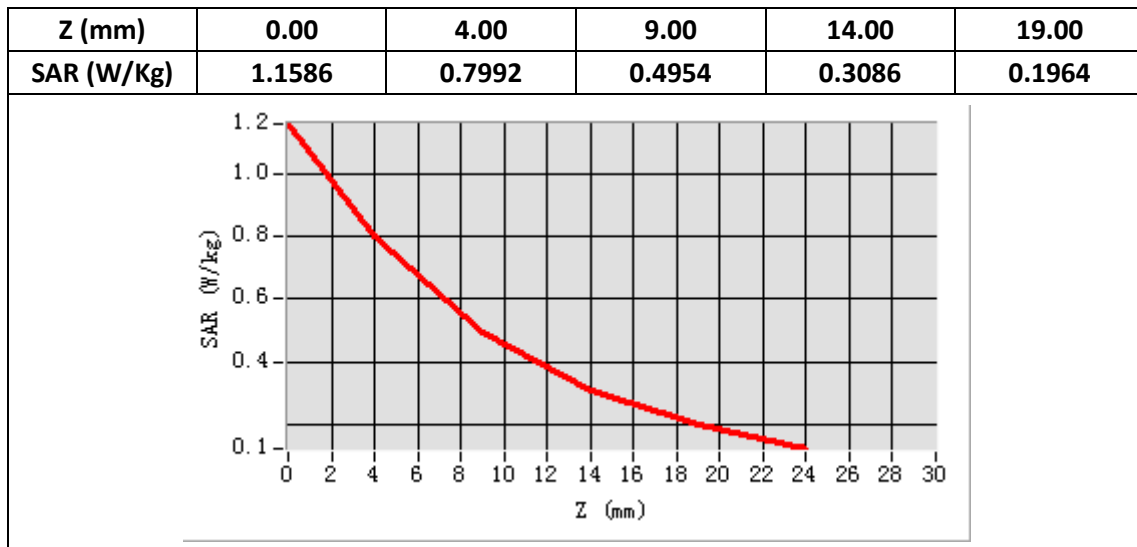
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.32
Relative permittivity (imaginary part)	14.21
Conductivity (S/m)	1.50
Variation (%)	-3.17
ConvF:	2.39



Maximum location: X=-17.00, Y=-49.00

SAR Peak: 1.17W/kg

SAR 10g (W/Kg)	0.443632
SAR 1g (W/Kg)	0.756913



Plot 3: WCDMA1900, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 07/22/2019

Measurement duration: 22 minutes 11 seconds

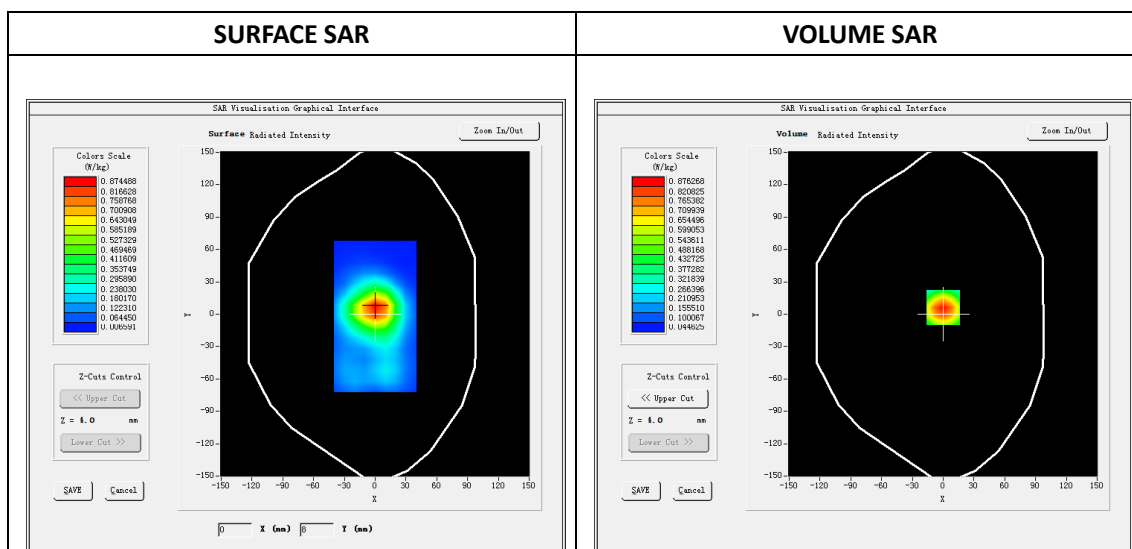
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

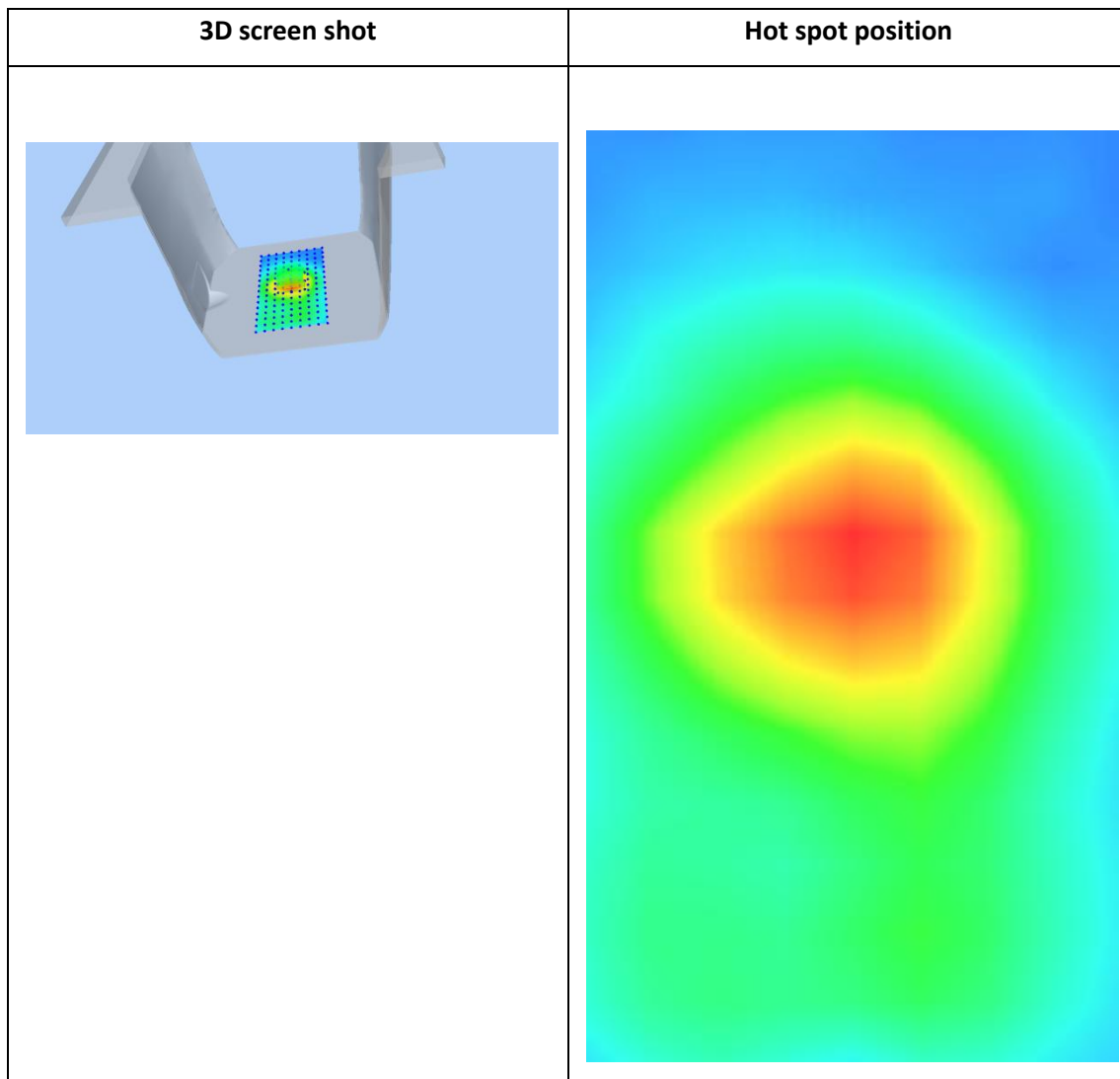
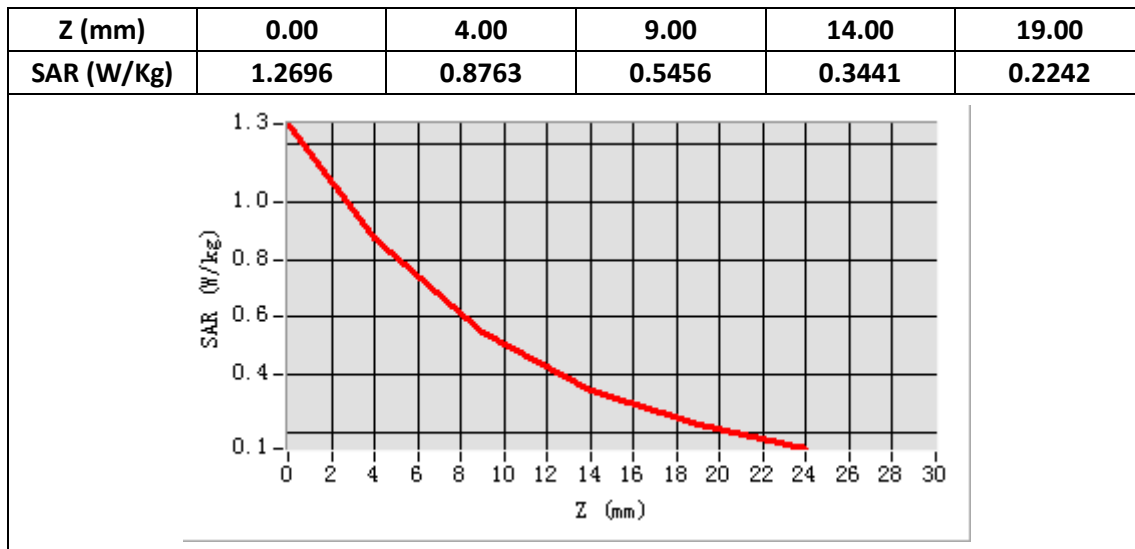
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.32
Relative permittivity (imaginary part)	14.21
Conductivity (S/m)	1.50
Variation (%)	-2.27
ConvF:	2.39



Maximum location: X=0.00, Y=6.00

SAR Peak: 1.27W/kg

SAR 10g (W/Kg)	0.483162
SAR 1g (W/Kg)	0.824205



Plot 4: WCDMA850, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 07/18/2019

Measurement duration: 22 minutes 16 seconds

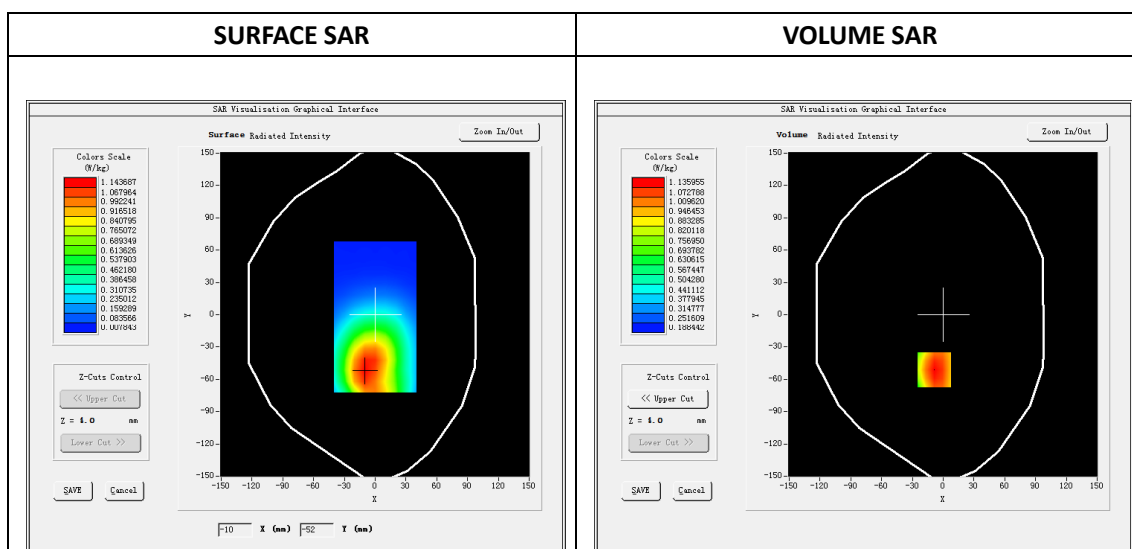
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

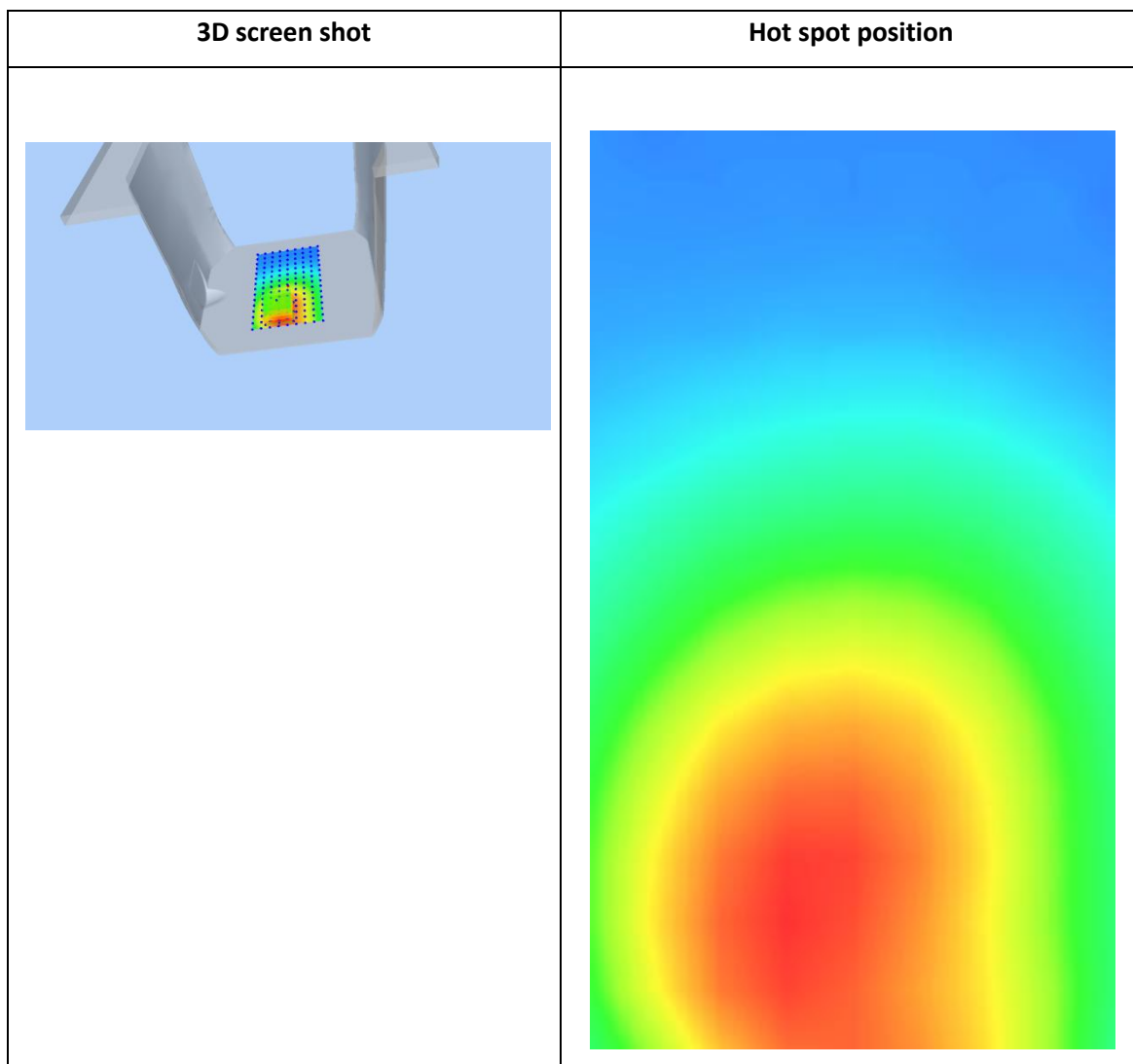
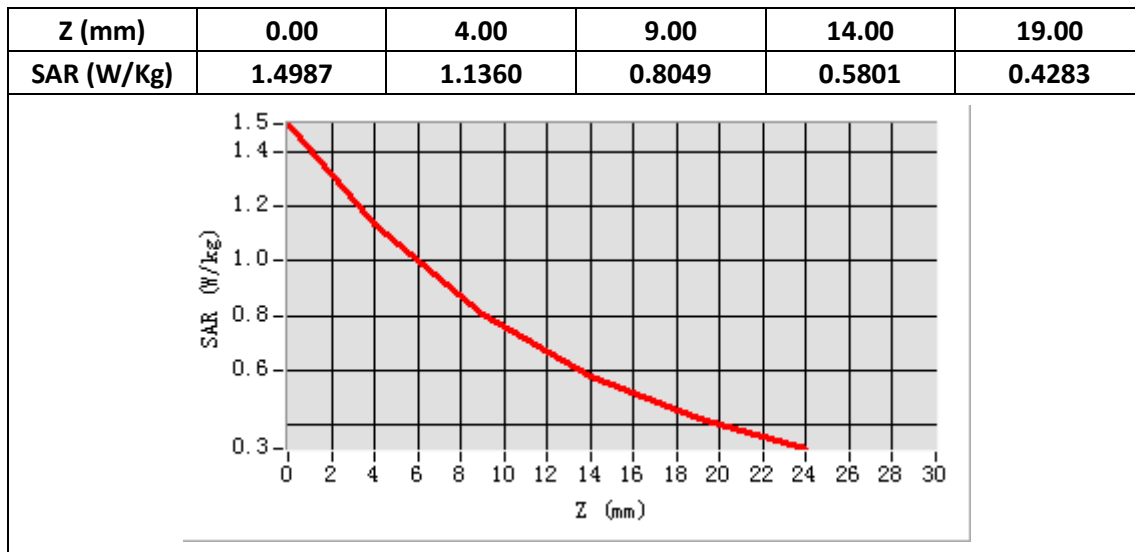
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.6
Relative permittivity (real part)	55.23
Relative permittivity (imaginary part)	20.26
Conductivity (S/m)	0.94
Variation (%)	-3.14
ConvF:	1.99



Maximum location: X=-9.00, Y=-51.00

SAR Peak: 1.50W/kg

SAR 10g (W/Kg)	0.763283
SAR 1g (W/Kg)	1.110435



Plot 5: LTE Band2, 20MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 07/22/2019

Measurement duration: 22 minutes 17 seconds

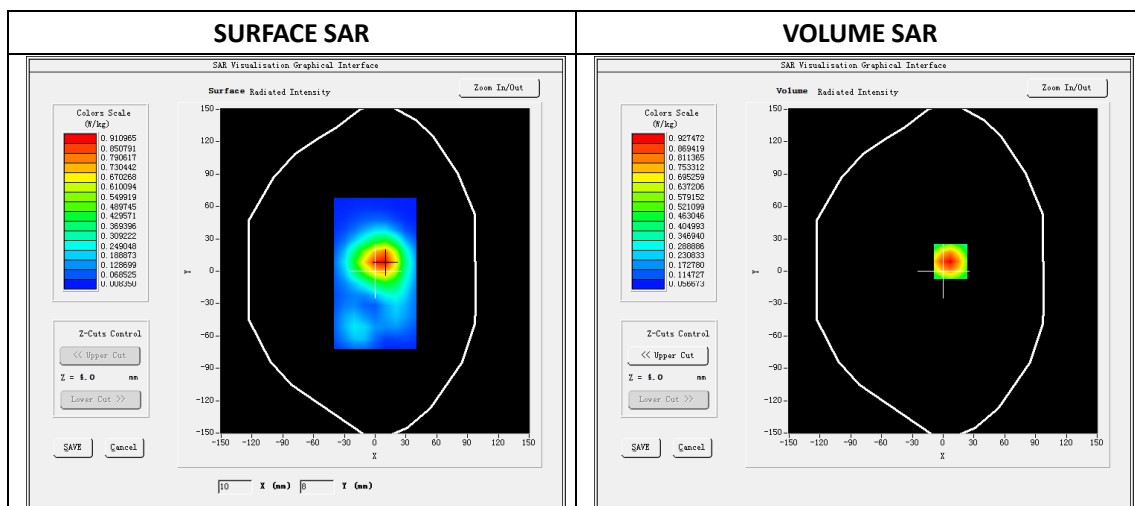
Mobile Phone IMEI number: --

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

B. SAR Measurement Results

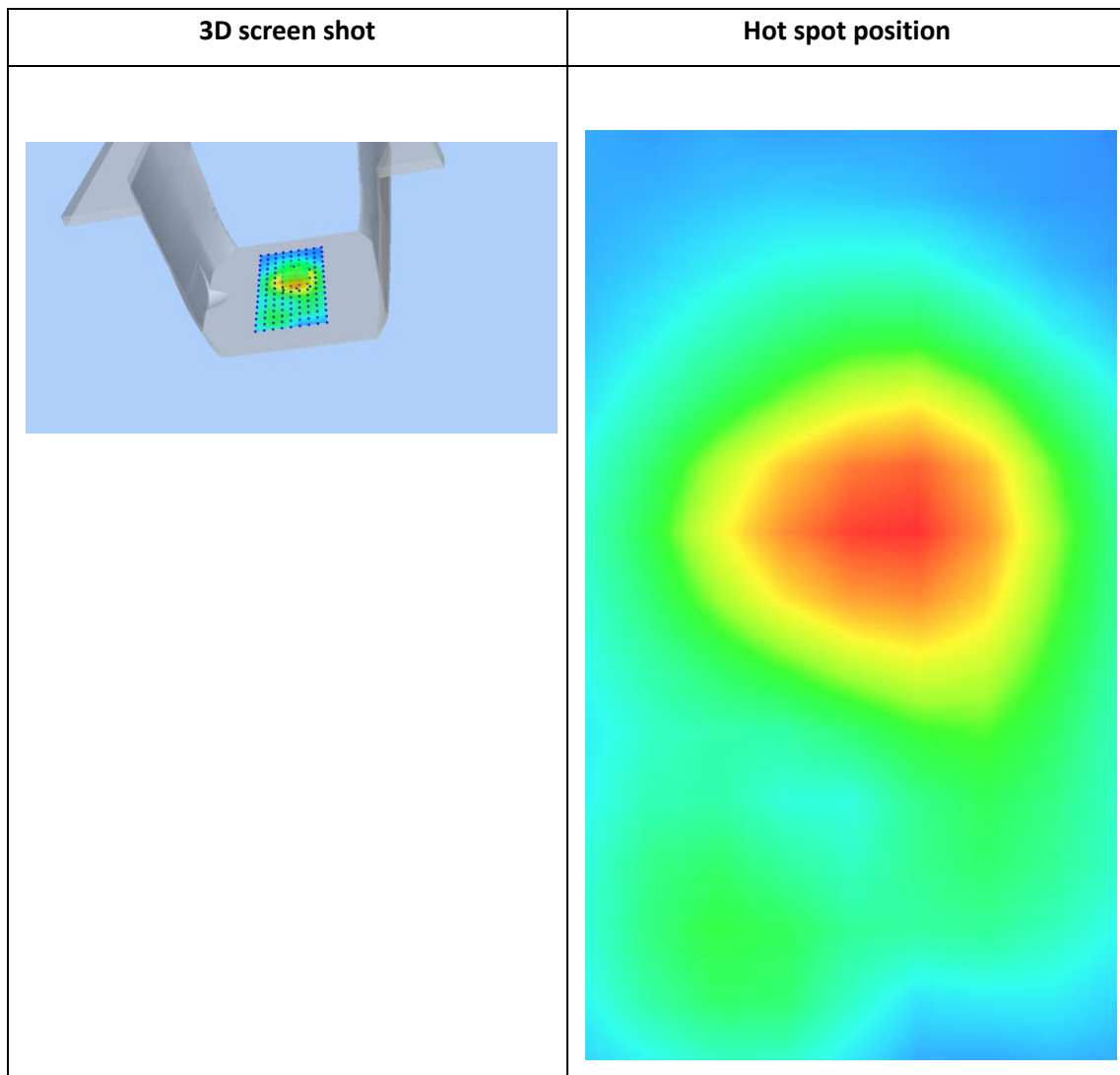
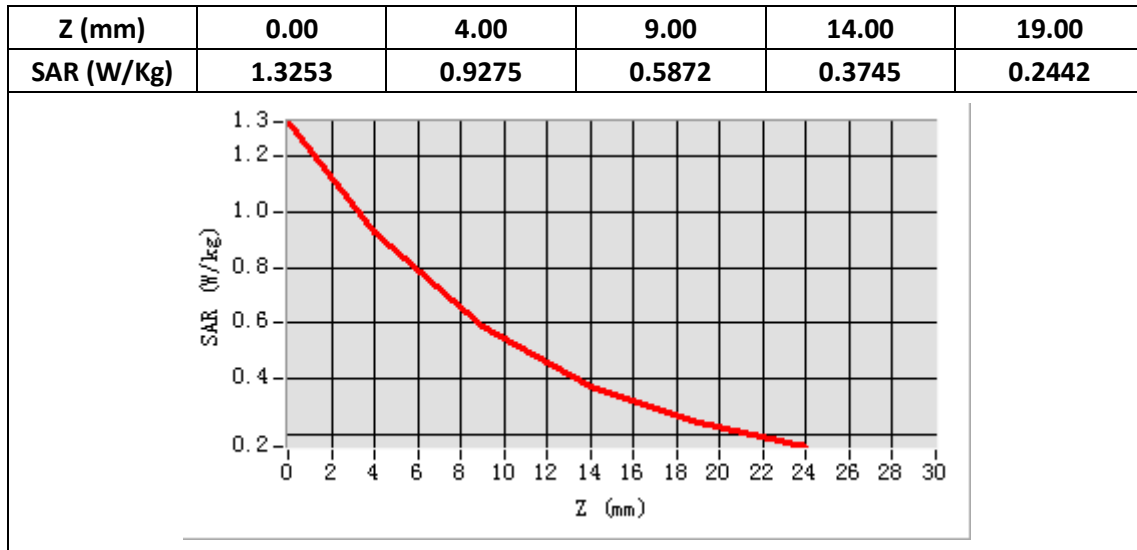
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.32
Relative permittivity (imaginary part)	14.21
Conductivity (S/m)	1.50
Variation (%)	-1.46
ConvF:	2.39



Maximum location: X=7.00, Y=9.00

SAR Peak: 1.33W/kg

SAR 10g (W/Kg)	0.517803
SAR 1g (W/Kg)	0.875010



Plot 6: LTE Band4, 20MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 07/22/2019

Measurement duration: 22 minutes 10 seconds

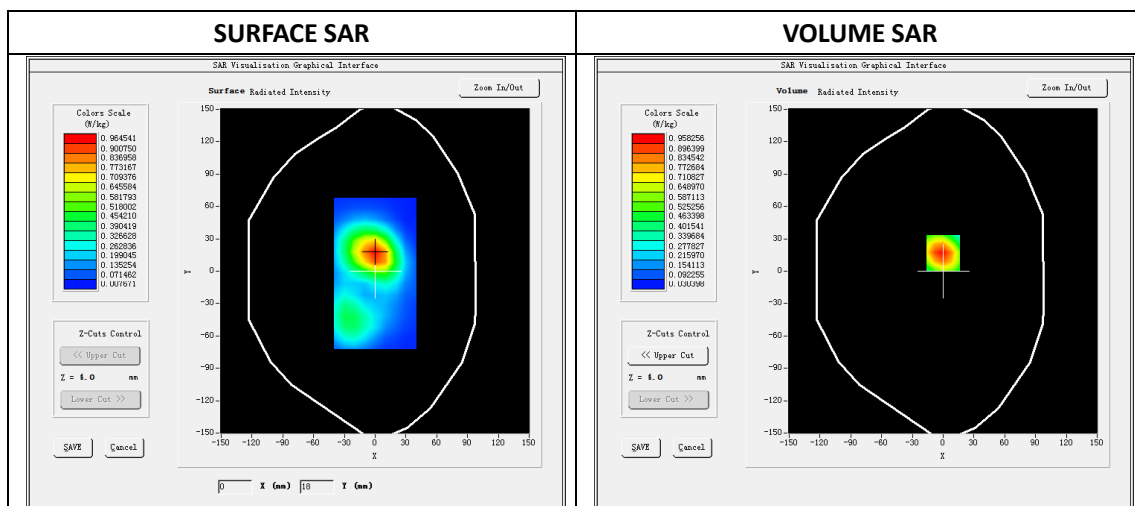
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

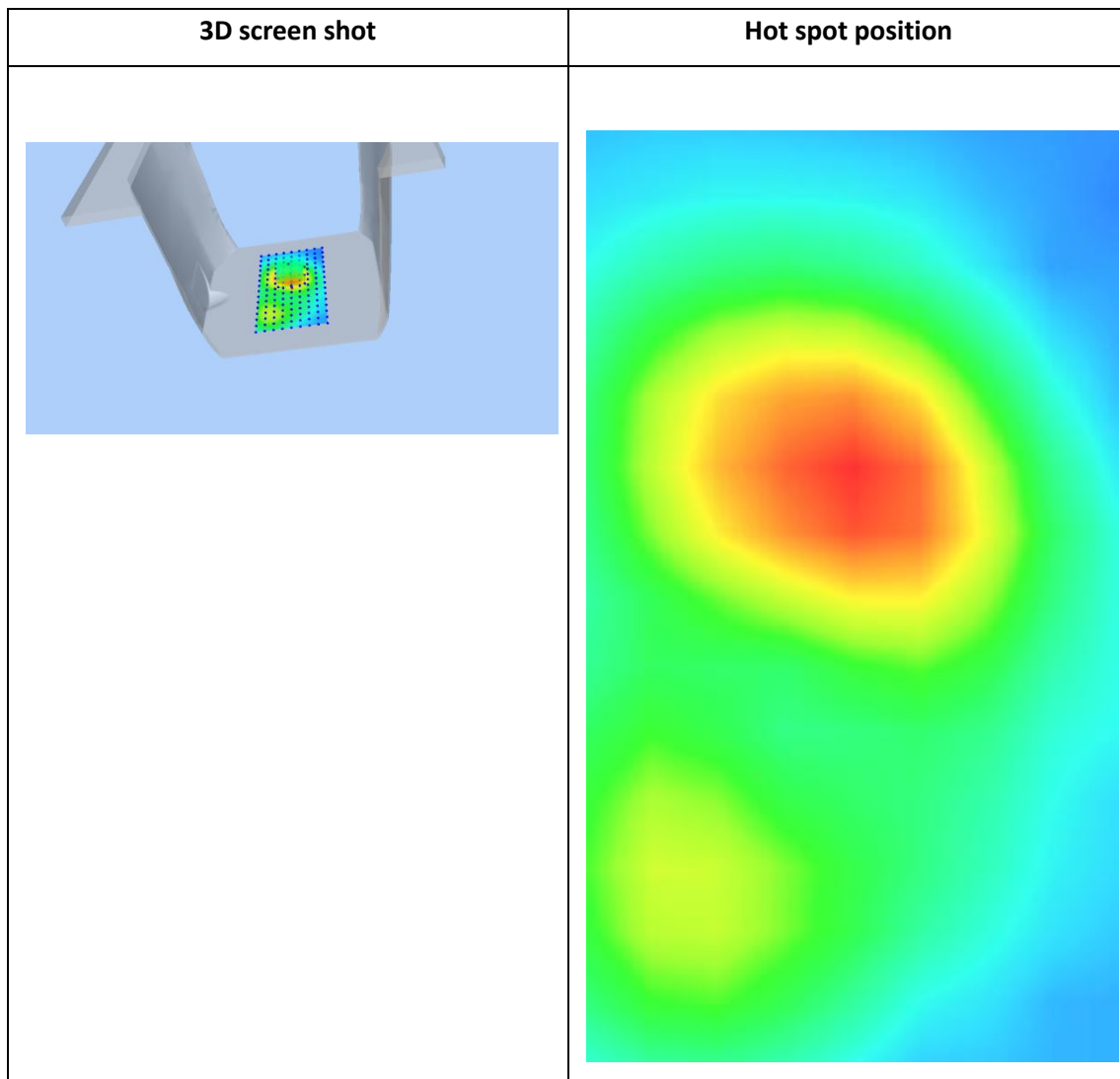
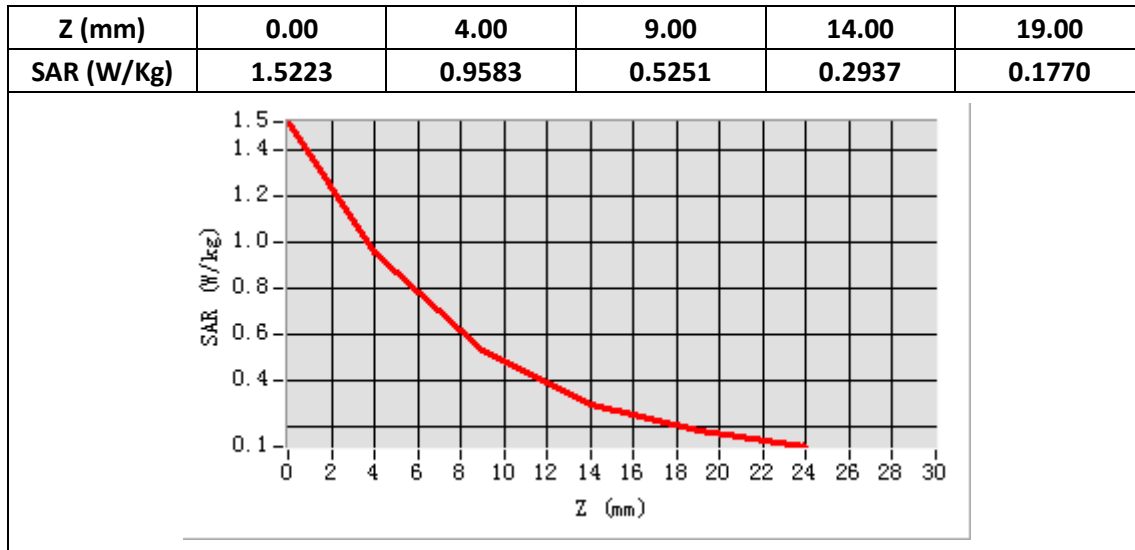
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	53.61
Relative permittivity (imaginary part)	15.30
Conductivity (S/m)	1.53
Variation (%)	-2.77
ConvF:	2.22



Maximum location: X=0.00, Y=17.00

SAR Peak: 1.53W/kg

SAR 10g (W/Kg)	0.497575
SAR 1g (W/Kg)	0.904740



Plot 7: LTE Band5, 10MHz, Face, Middle,10mm

Type: Phone measurement

Date of measurement: 07/18/2019

Measurement duration: 22 minutes 22 seconds

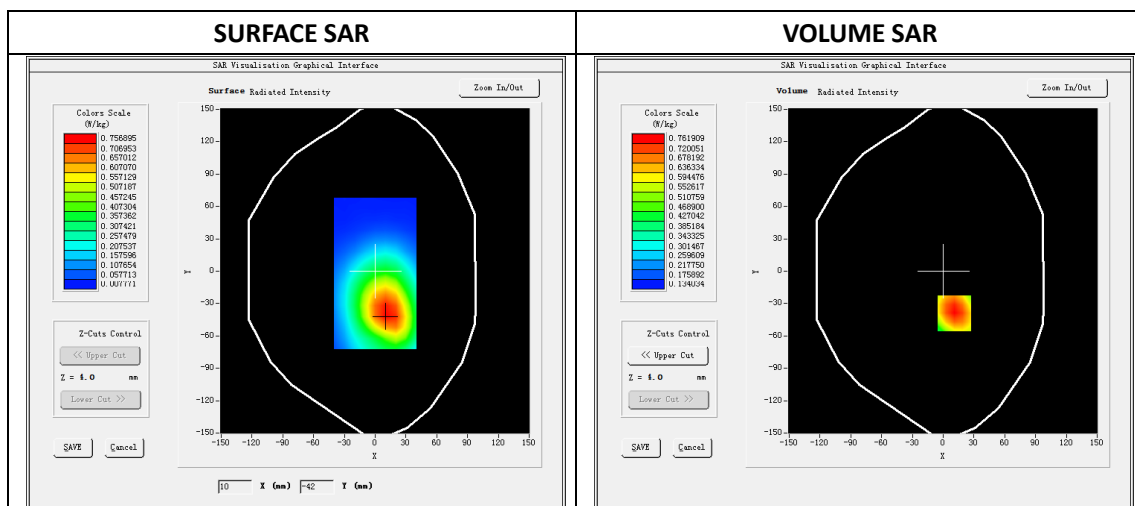
Mobile Phone IMEI number: --

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

B. SAR Measurement Results

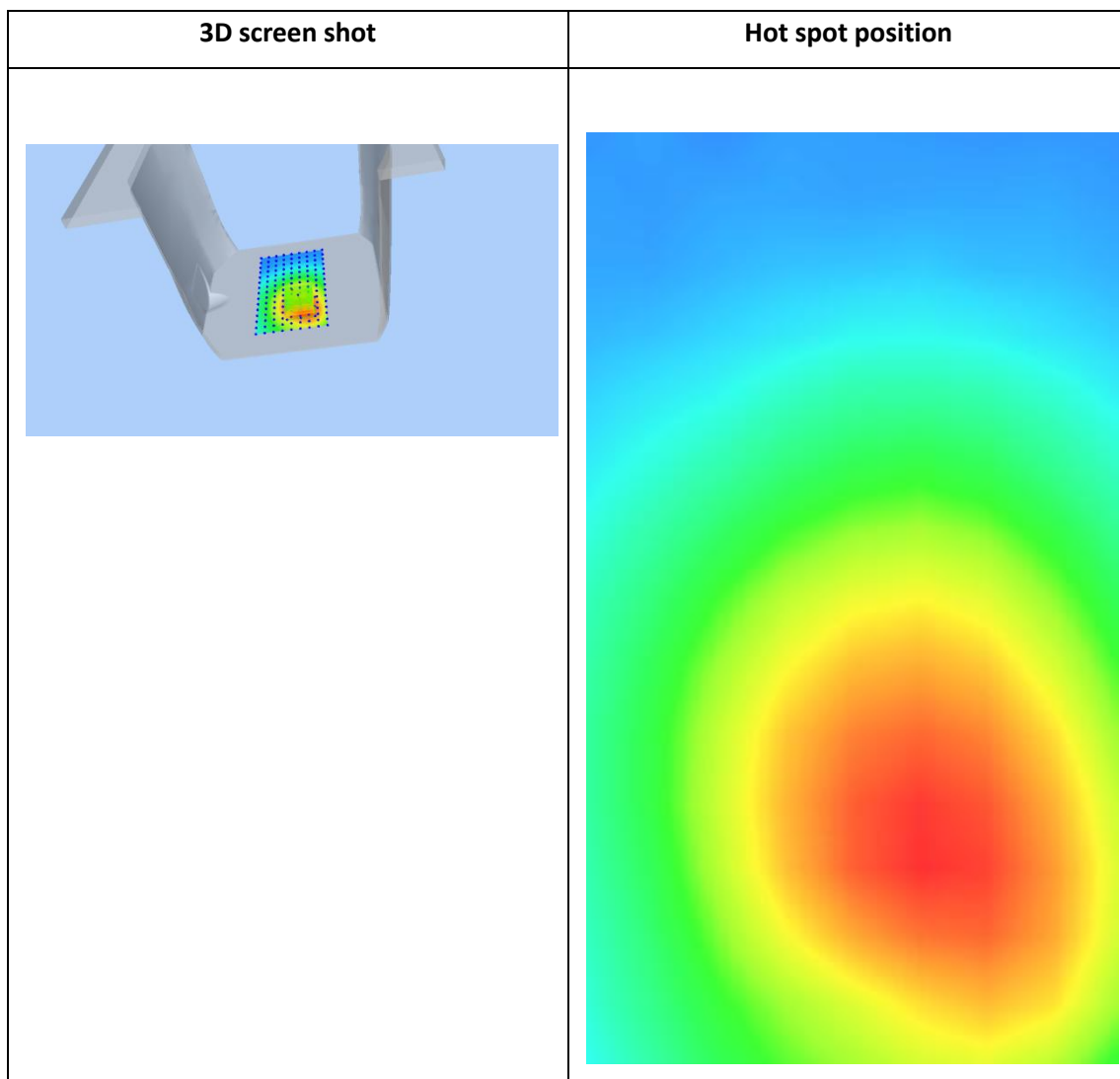
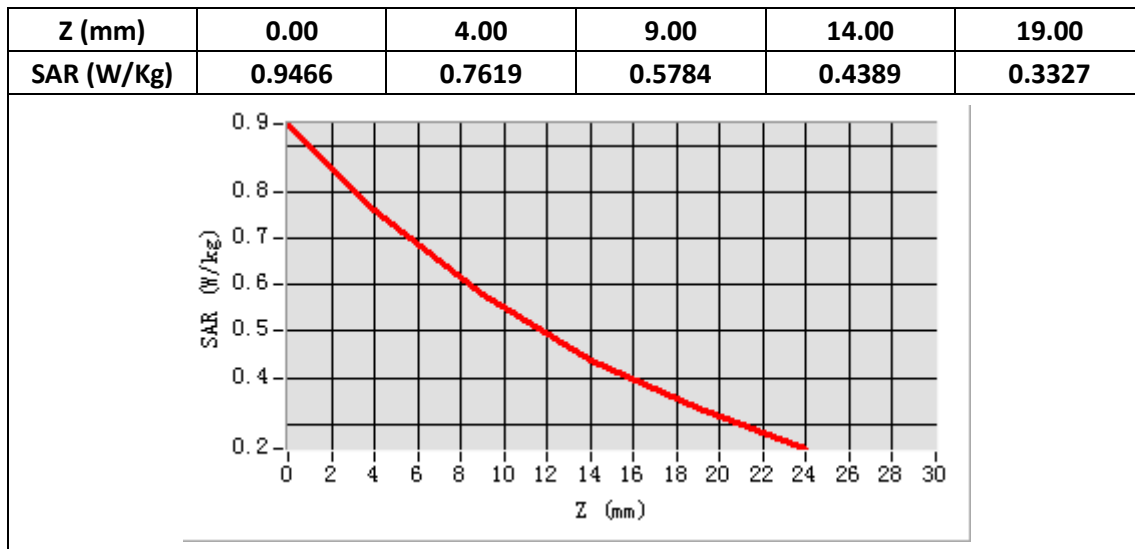
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.5
Relative permittivity (real part)	55.23
Relative permittivity (imaginary part)	20.26
Conductivity (S/m)	0.94
Variation (%)	-1.13
ConvF:	1.99



Maximum location: X=11.00, Y=-39.00

SAR Peak: 0.95W/kg

SAR 10g (W/Kg)	0.527291
SAR 1g (W/Kg)	0.745347



Plot 8: LTE Band7, 20MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 07/25/2019

Measurement duration: 22 minutes 26 seconds

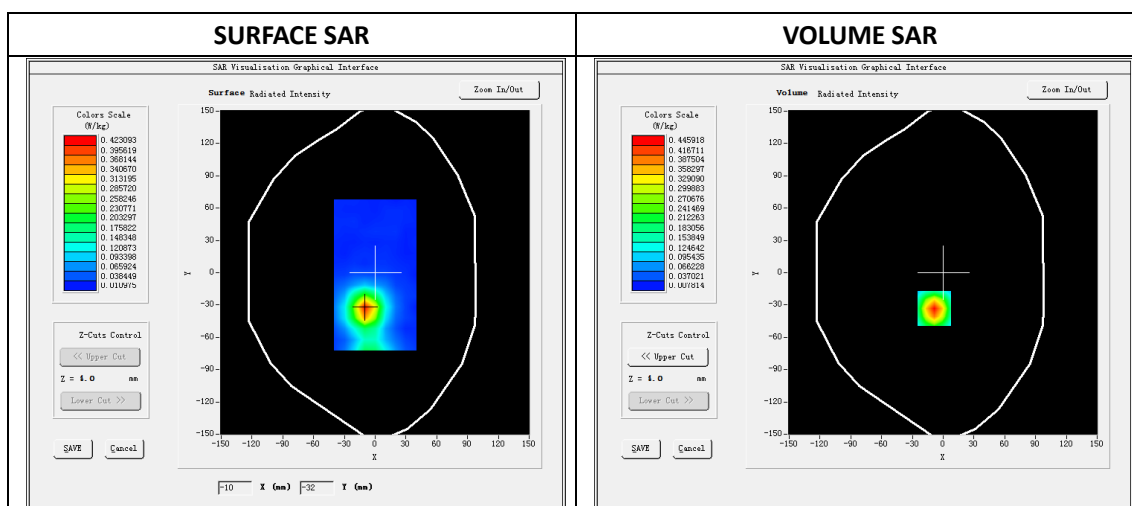
Mobile Phone IMEI number: --

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

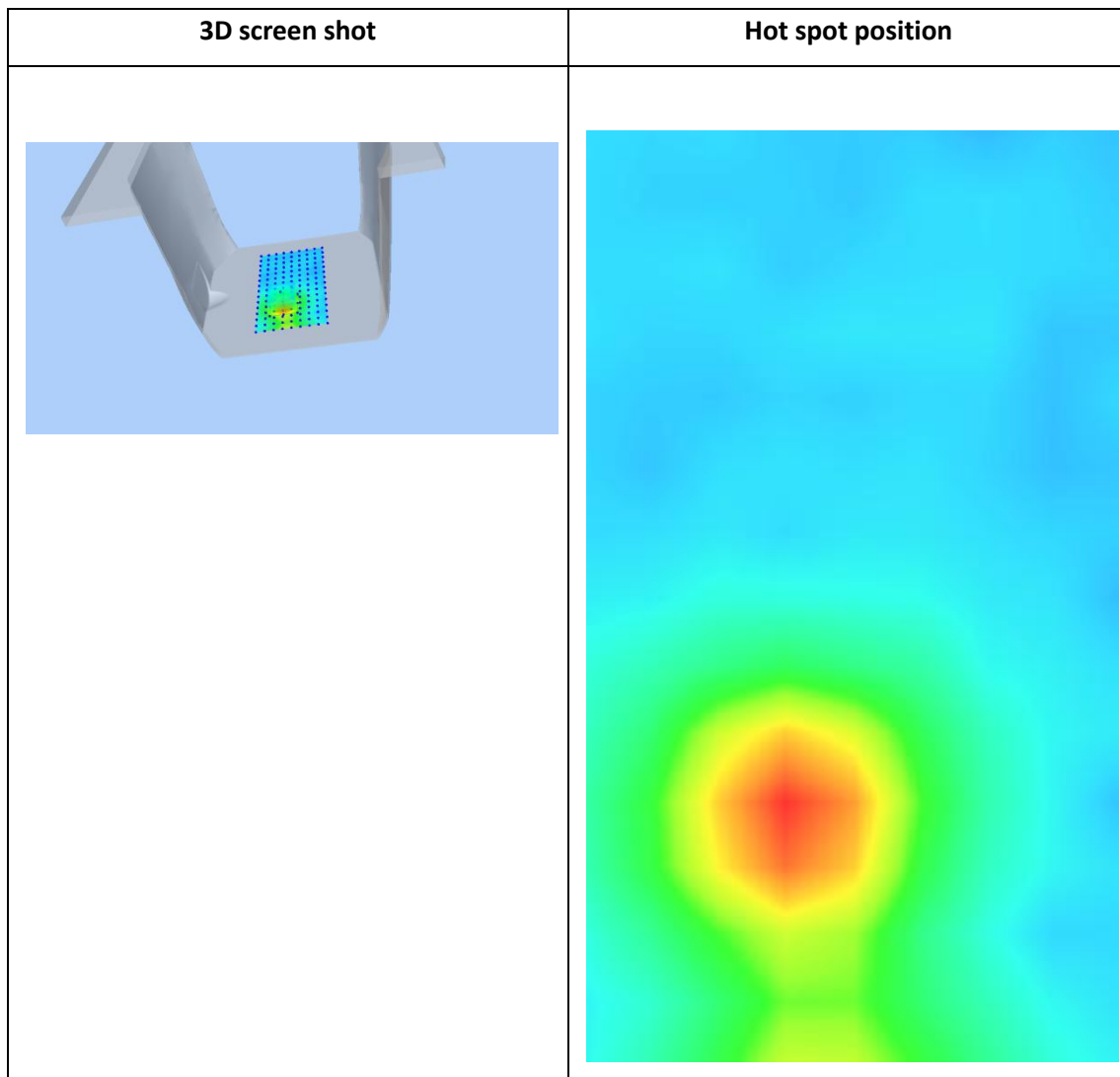
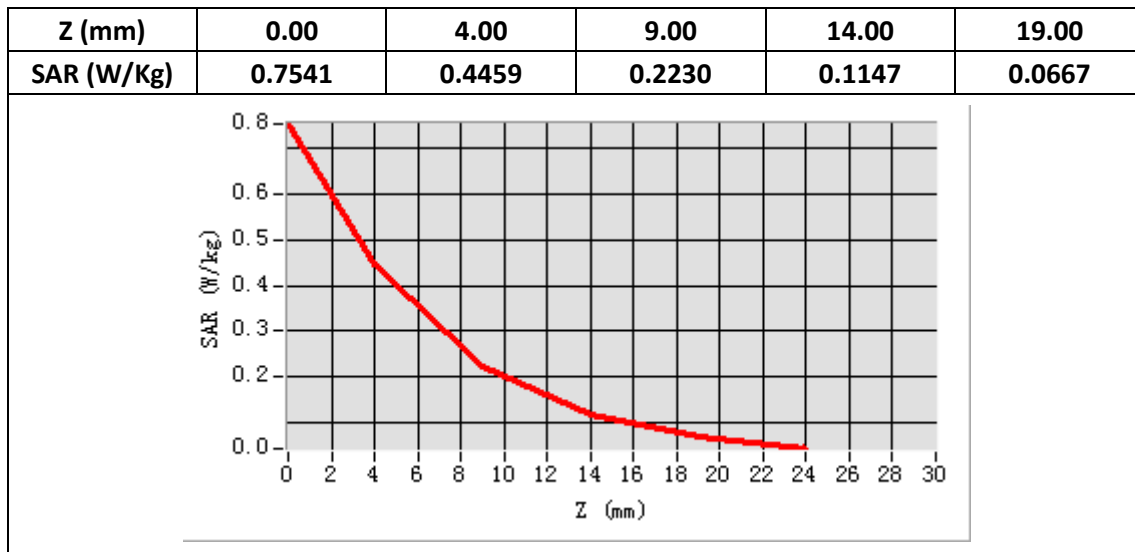
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2535
Relative permittivity (real part)	52.84
Relative permittivity (imaginary part)	14.95
Conductivity (S/m)	2.16
Variation (%)	-4.65
ConvF:	2.43



Maximum location: X=-9.00 Y=-33.00

SAR Peak: 0.76 W/kg

SAR 10g (W/Kg)	0.200711
SAR 1g (W/Kg)	0.412588



Plot 9: Wi-Fi 802.11b, Ant0,Face ,Middle, 10mm

Type: Phone measurement

Date of measurement: 07/24/2019

Measurement duration: 22 minutes 31 seconds

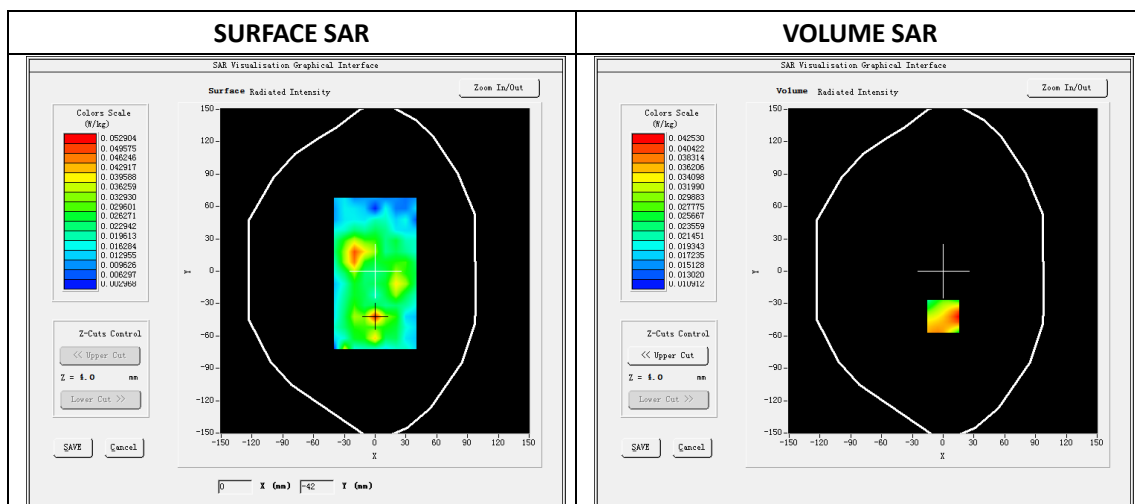
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

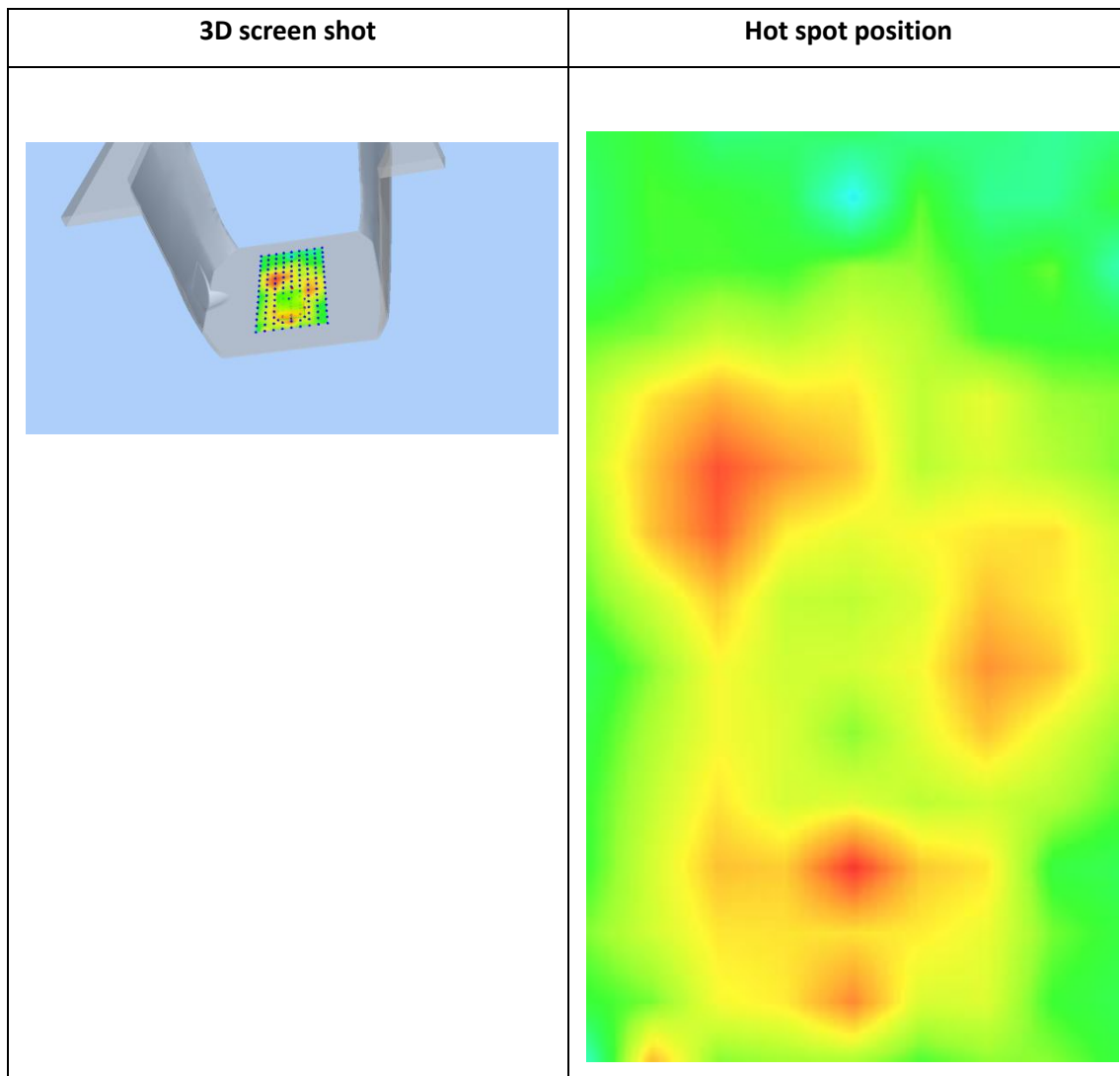
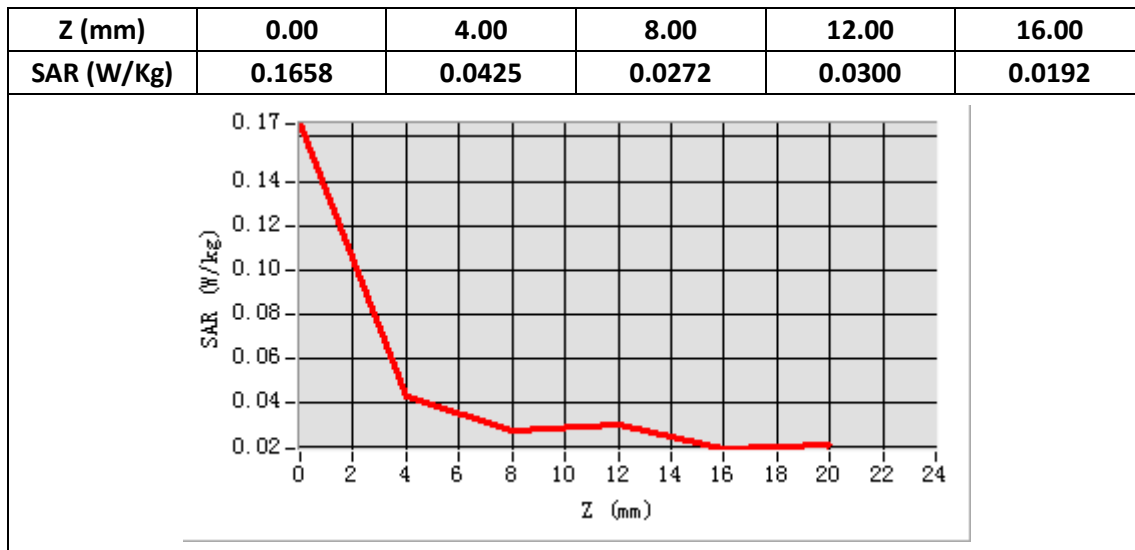
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2437
Relative permittivity (real part)	53.10
Relative permittivity (imaginary part)	14.40
Conductivity (S/m)	1.96
Variation (%)	-3.52
ConvF:	2.46



Maximum location: X=0.00 Y=-42.00

SAR Peak: 0.06 W/kg

SAR 10g (W/Kg)	0.027154
SAR 1g (W/Kg)	0.039133



Plot 10: Wi-Fi 802.11b,Ant 1, Back ,Middle, 10mm

Type: Phone measurement

Date of measurement: 07/24/2019

Measurement duration: 22 minutes 29 seconds

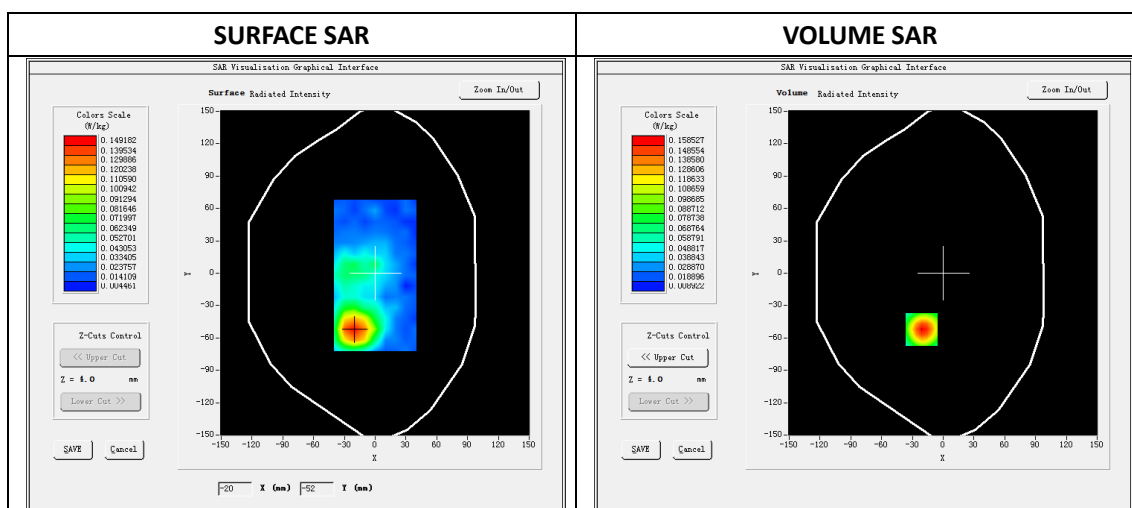
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2437
Relative permittivity (real part)	53.10
Relative permittivity (imaginary part)	14.40
Conductivity (S/m)	1.96
Variation (%)	-1.17
ConvF:	2.46



Maximum location: X=-21.00 Y=-52.00

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.080395
SAR 1g (W/Kg)	0.148314

