

**Test Laboratory: AGC Lab**
**System Check Body 1900MHz**
**DUT: Dipole 1900 MHz; Type: SID 1900**

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=5.39

 Frequency: 1900 MHz; Medium parameters used:  $f = 1850$  MHz;  $\sigma = 1.53$  mho/m;  $\epsilon_r = 53.08$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):21.1, Liquid temperature (°C): 20.7

**Date: Aug. 08,2019**
**SATIMO Configuration:**

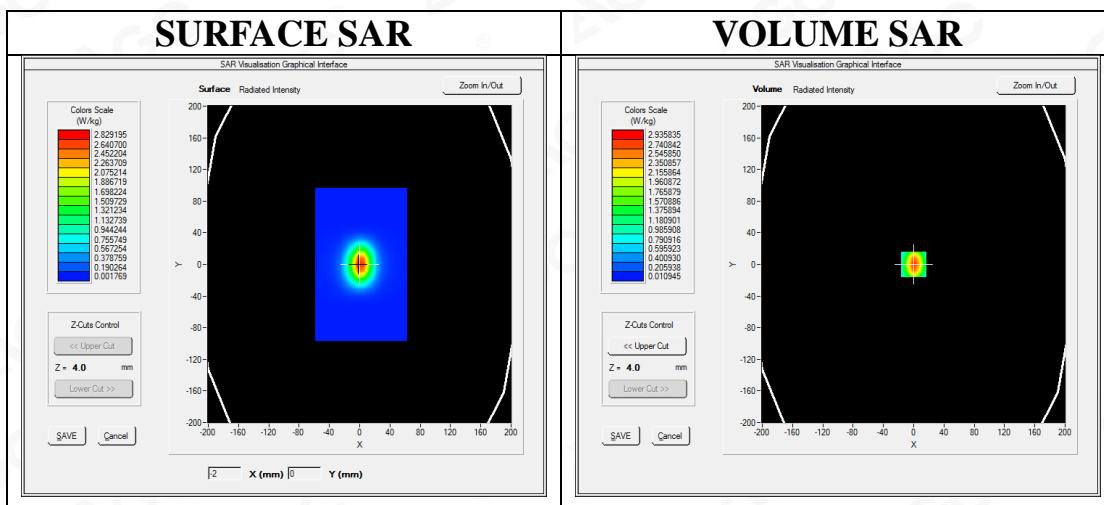
Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Phantom: ELLI39 Phantom

- Measurement SW: OpenSAR V4\_02\_35

**Configuration/System Check 1900MHz Body/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/System Check 1900MHz Body/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm


**Maximum location: X=0.00, Y=0.00**  
**SAR Peak: 5.33 W/kg**

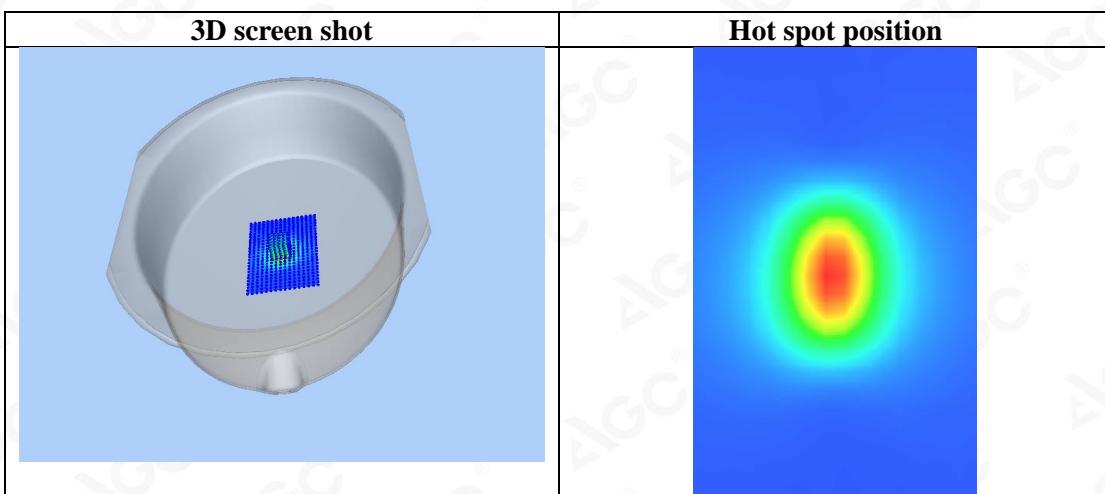
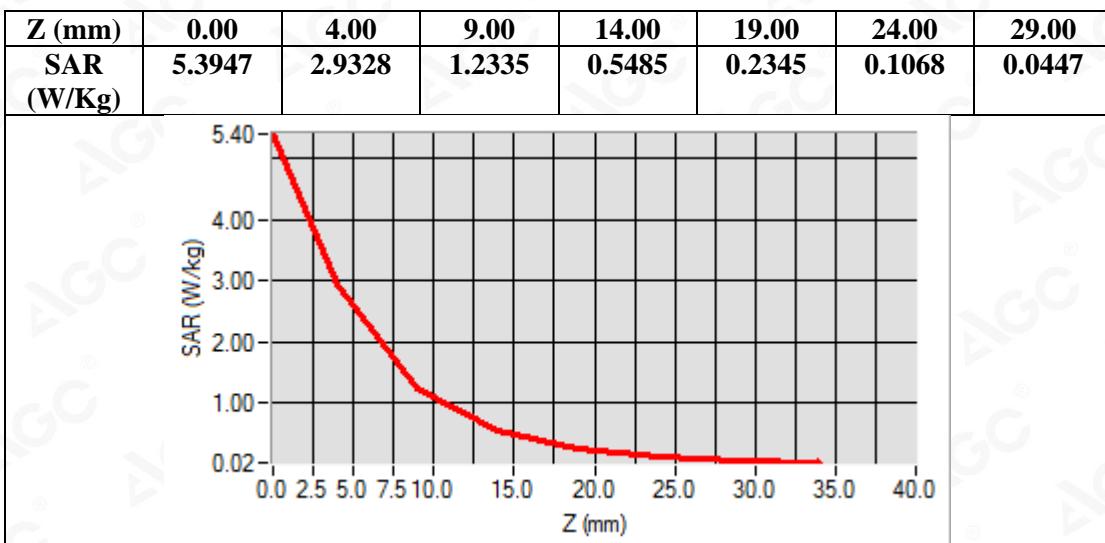
<b>SAR 10g (W/Kg)</b>	1.252349
<b>SAR 1g (W/Kg)</b>	2.806244



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**Test Laboratory: AGC Lab**
**System Check Head 1900MHz**
**DUT: Dipole 1900 MHz; Type: SID 1900**

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=5.24

 Frequency: 1900 MHz; Medium parameters used:  $f = 1850$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.26$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section; Input Power=18dBm

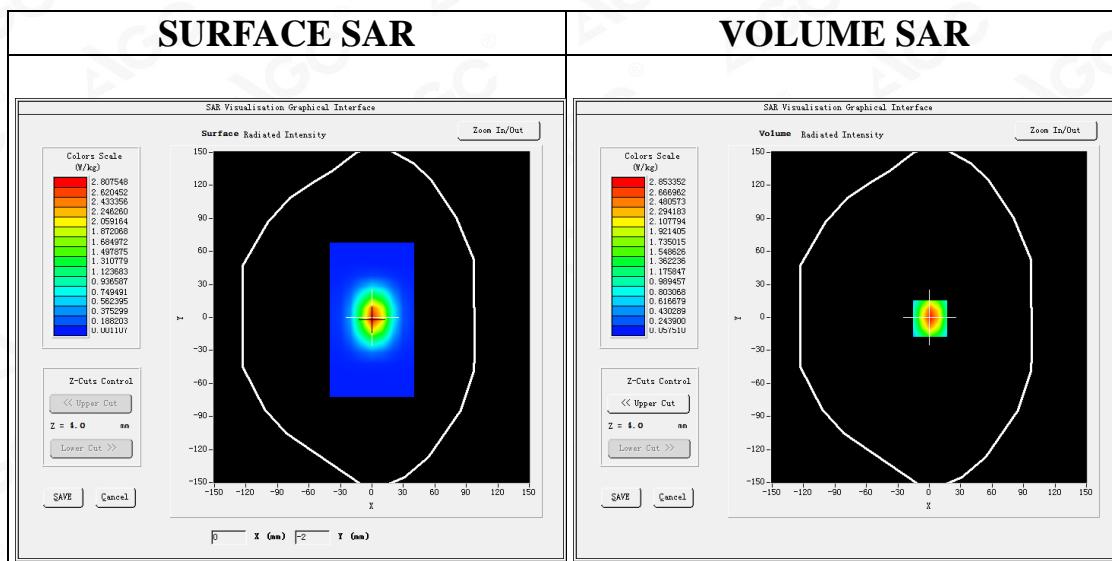
Ambient temperature (°C):21.2, Liquid temperature (°C): 20.9

**Date: Aug. 04,2019**
**SATIMO Configuration:**

Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/System Check 1900MHz Head/Area Scan:** Measurement grid: dx=10mm, dy=10mm

**Configuration/System Check 1900MHz Head/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm

**Maximum location: X=1.00, Y=-1.00**
**SAR Peak: 4.29 W/kg**

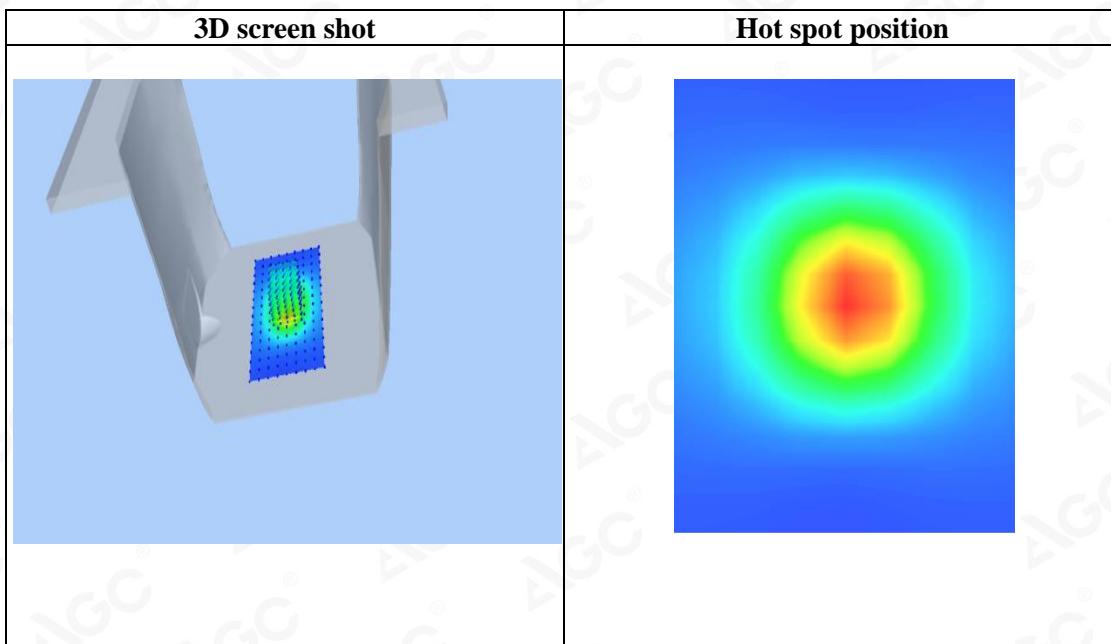
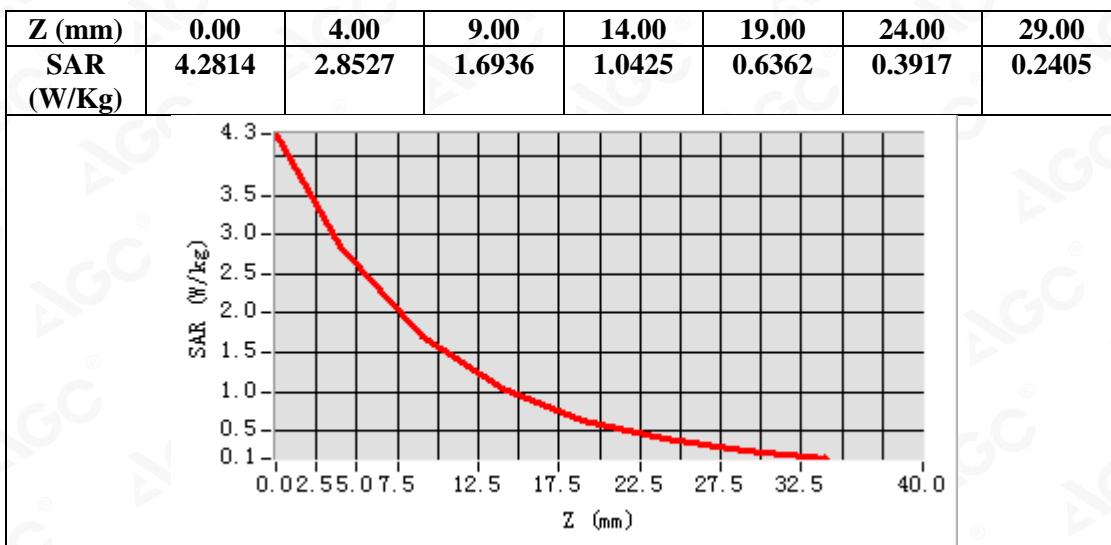
<b>SAR 10g (W/Kg)</b>	1.381355
<b>SAR 1g (W/Kg)</b>	2.671684



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**Test Laboratory: AGC Lab**
**System Check Body 1900MHz**
**DUT: Dipole 1900 MHz; Type: SID 1900**

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=5.39

 Frequency: 1900 MHz; Medium parameters used:  $f = 1850$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 51.26$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):21.2, Liquid temperature (°C): 20.8

**Date: Aug. 04,2019**
**SATIMO Configuration:**

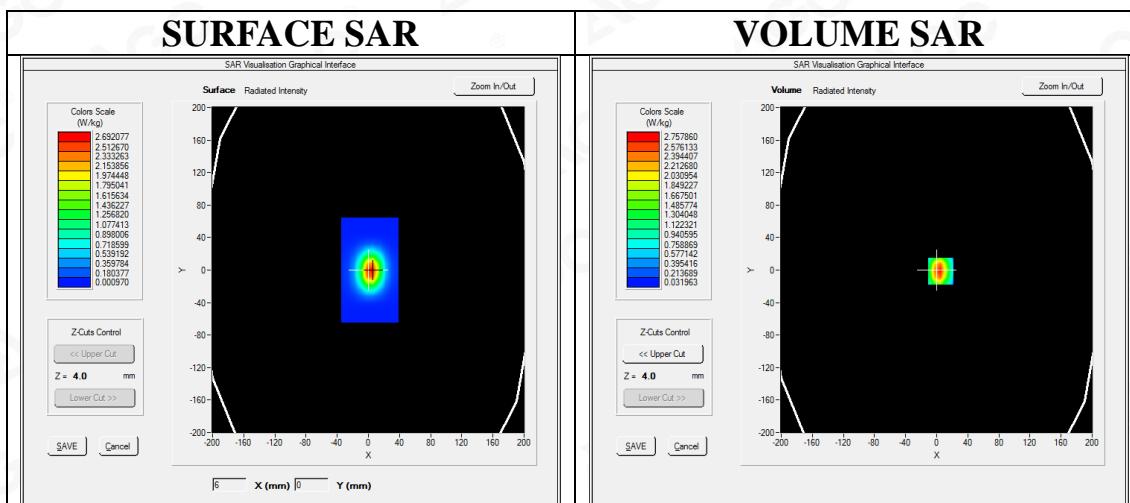
Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Phantom: ELLI39 Phantom

- Measurement SW: OpenSAR V4\_02\_35

**Configuration/System Check 1900MHz Body/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/System Check 1900MHz Body/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm


**Maximum location: X=5.00, Y=-1.00**  
**SAR Peak: 4.49 W/kg**

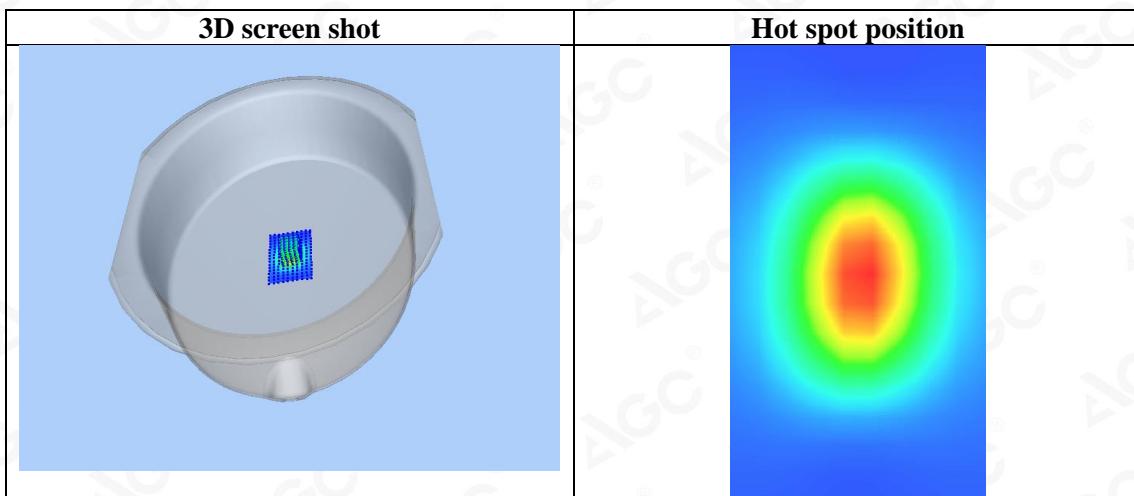
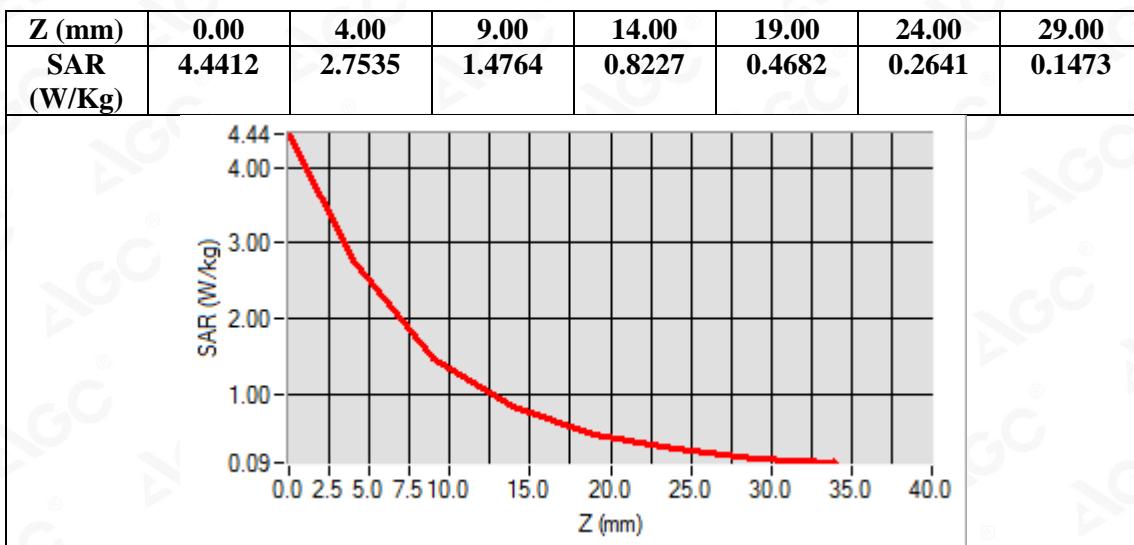
<b>SAR 10g (W/Kg)</b>	1.302494
<b>SAR 1g (W/Kg)</b>	2.623251



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**Test Laboratory: AGC Lab**  
**System Check Head 2450 MHz**  
**DUT: Dipole 2450 MHz Type: SID 2450**  
 Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=4.90  
 Frequency: 2450 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.80$  mho/m;  $\epsilon_r = 39.60$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
 Phantom section: Flat Section; Input Power=18dBm  
 Ambient temperature (°C):21.1, Liquid temperature (°C): 20.8

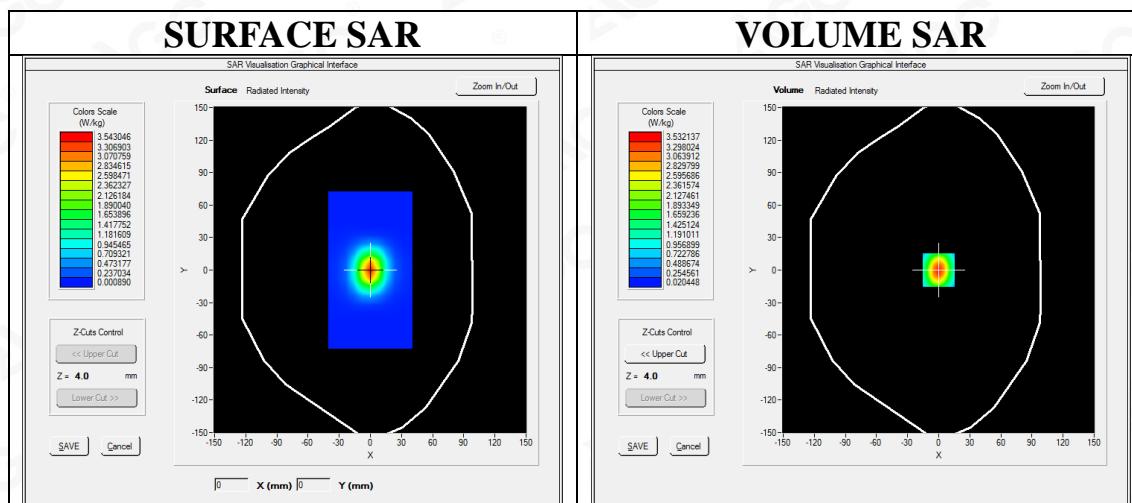
**Date: Aug. 08,2019**

#### SATIMO Configuration

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/System Check 2450MHz Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/System Check 2450MHz Head/Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm



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

**SAR Peak: 5.93 W/kg**

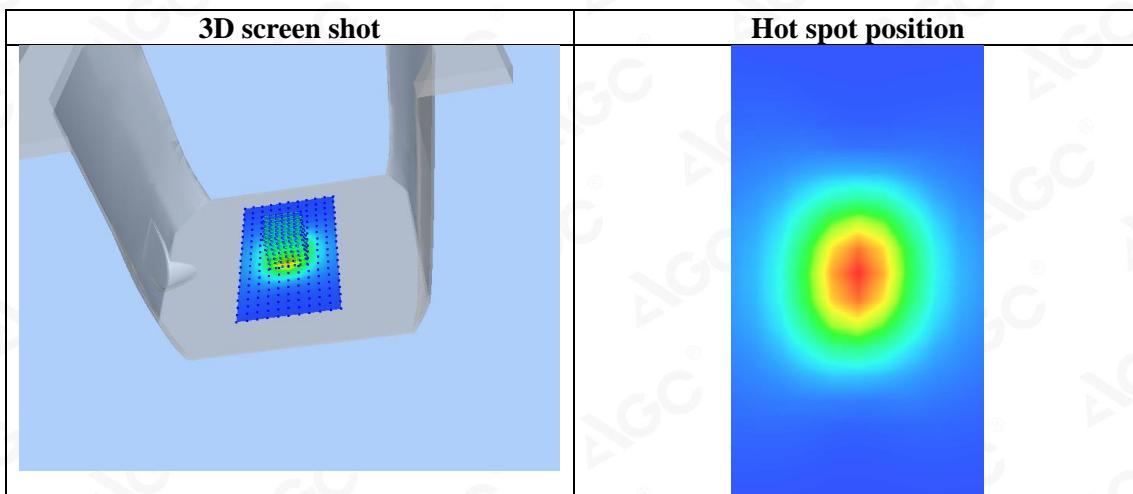
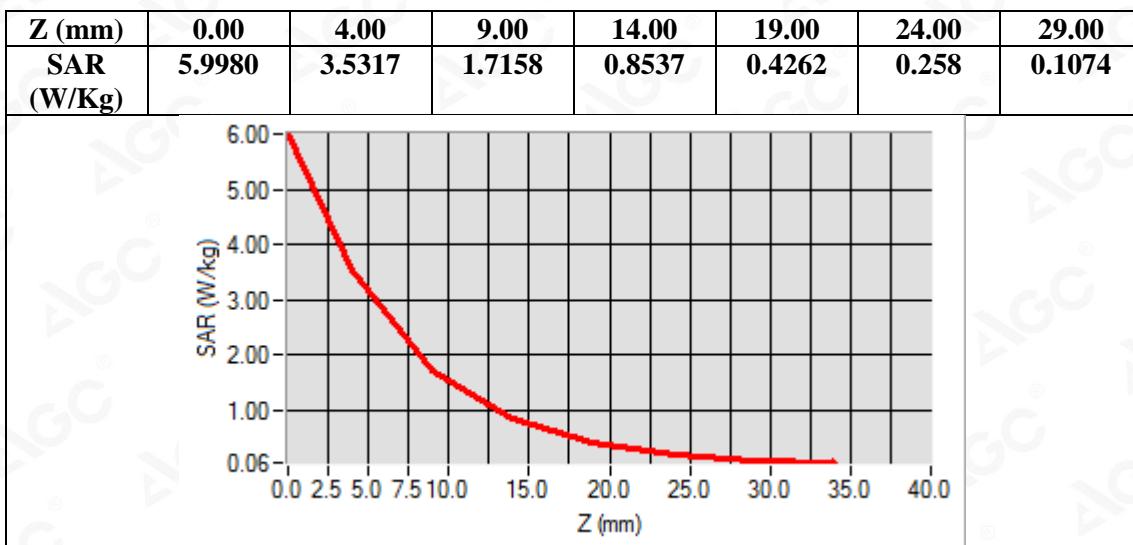
<b>SAR 10g (W/Kg)</b>	1.492437
<b>SAR 1g (W/Kg)</b>	3.223873



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**Test Laboratory: AGC Lab**  
**System Check Body 2450 MHz**  
**DUT: Dipole 2450 MHz Type: SID 2450**

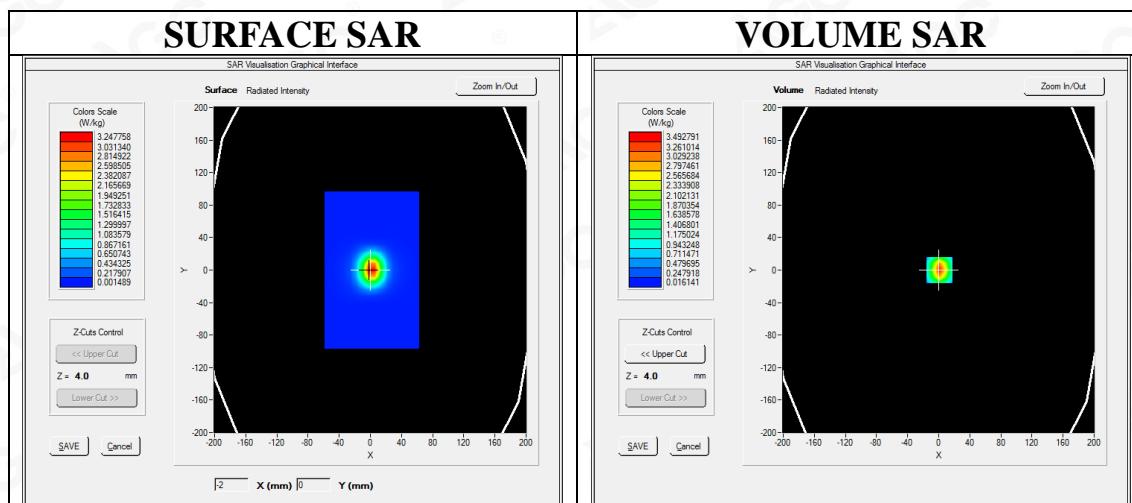
Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=5.04  
 Frequency: 2450 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 52.10$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
 Phantom section: Flat Section; Input Power=18dBm  
 Ambient temperature (°C): 21.1, Liquid temperature (°C): 20.7

#### SATIMO Configuration

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/System Check 2450MHz Body/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/System Check 2450MHz Body/Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm



**Maximum location: X=1.00, Y=0.00**

**SAR Peak: 6.01 W/kg**

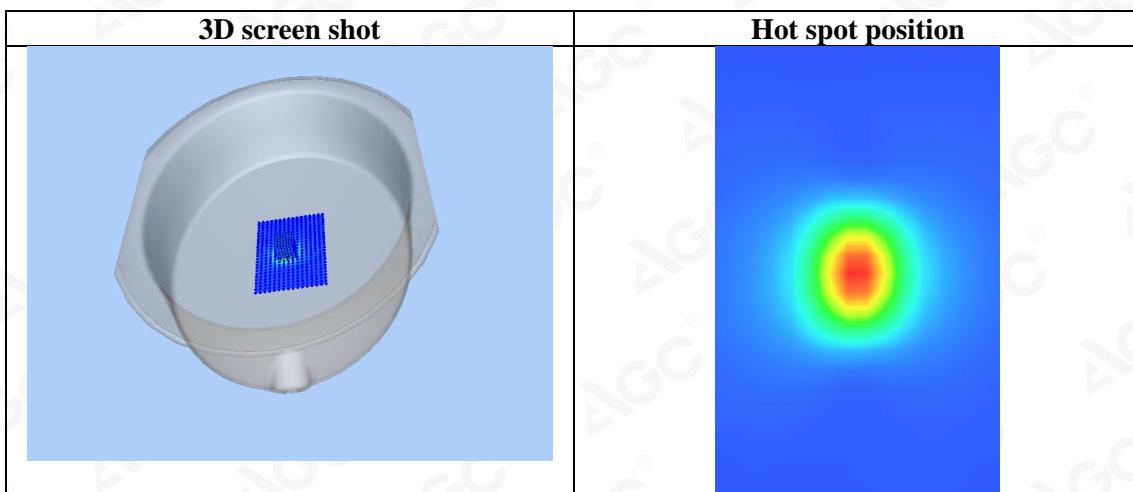
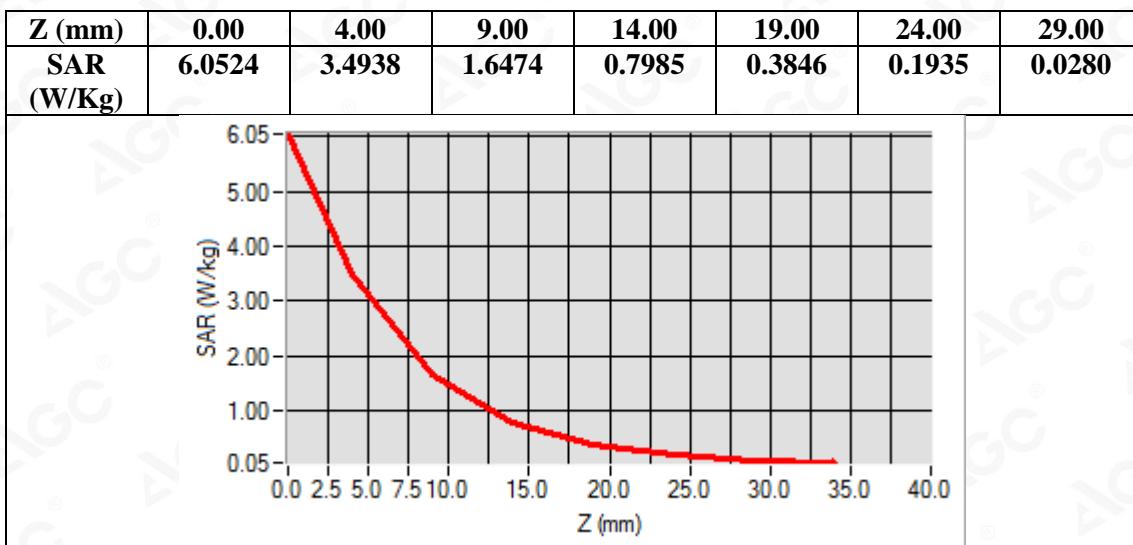
<b>SAR 10g (W/Kg)</b>	1.468423
<b>SAR 1g (W/Kg)</b>	3.257245



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**Test Laboratory: AGC Lab**  
**System Check Head 2600MHz**  
**DUT: Dipole 2600 MHz; Type: SID 2600**  
 Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=4.57  
 Frequency:2600 MHz; Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 38.62$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
 Phantom section: Flat Section; Input Power=18dBm  
 Ambient temperature (°C): 20.7, Liquid temperature (°C): 20.5

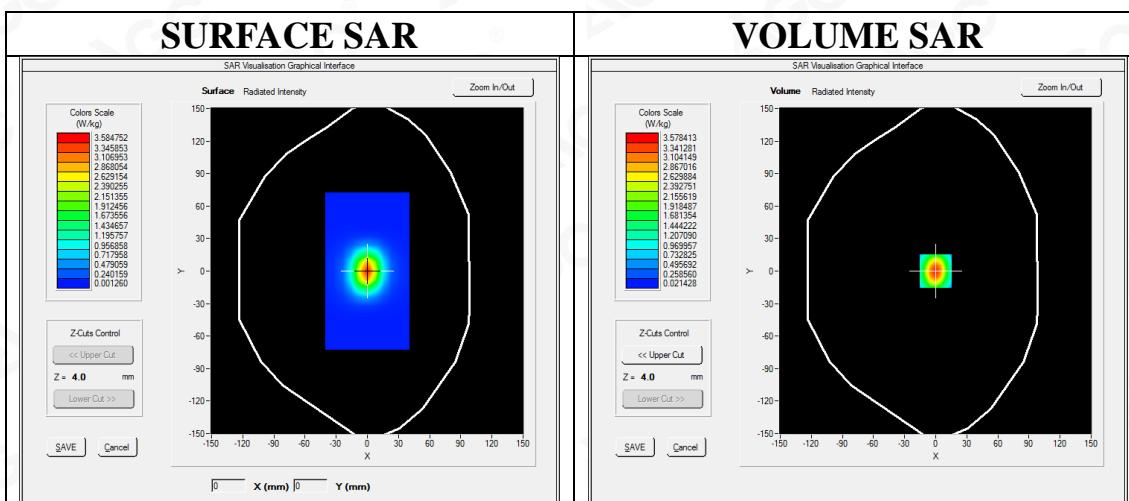
Date: Aug. 01,2019

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/System Check 2600 Head/Area Scan:** Measurement grid: dx=8mm,dy=8mm

**Configuration/System Check 2600 Head/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=0.00, Y=0.00

SAR Peak: 5.99 W/kg

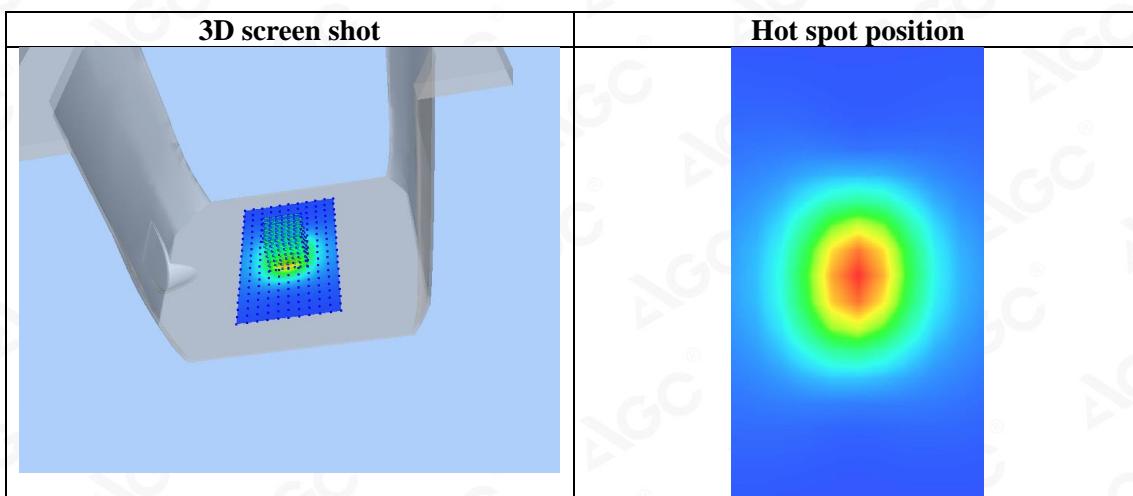
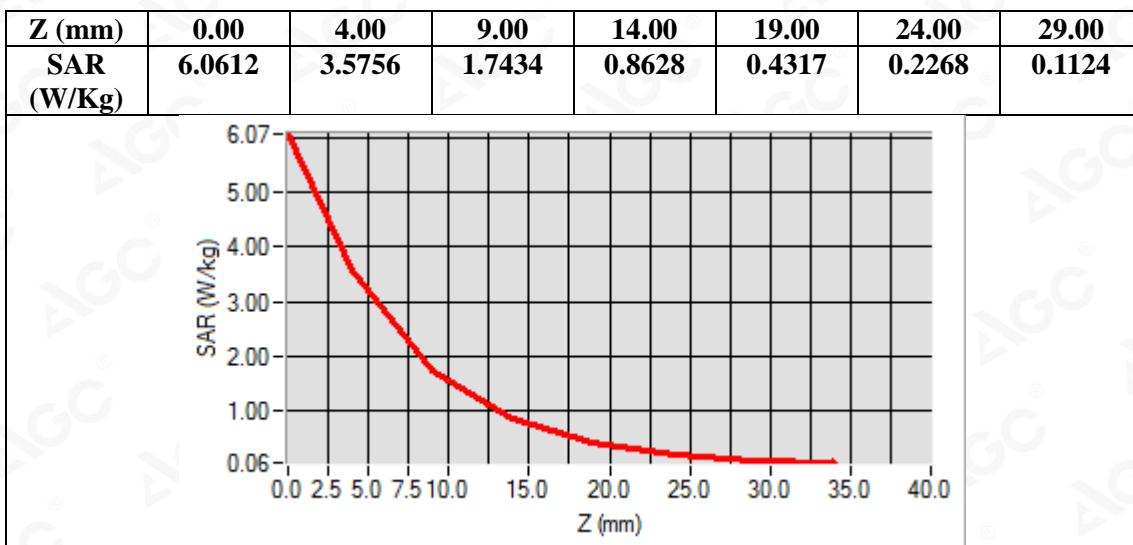
SAR 10g (W/Kg)	1.516524
SAR 1g (W/Kg)	3.261257



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**Test Laboratory: AGC Lab**  
**System Check Body 2600MHz**  
**DUT: Dipole 2600 MHz; Type: SID 2600**  
 Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=4.68  
 Frequency:2600 MHz; Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.14$  mho/m;  $\epsilon_r = 52.47$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
 Phantom section: Flat Section; Input Power=18dBm  
 Ambient temperature (°C): 20.7, Liquid temperature (°C): 20.4

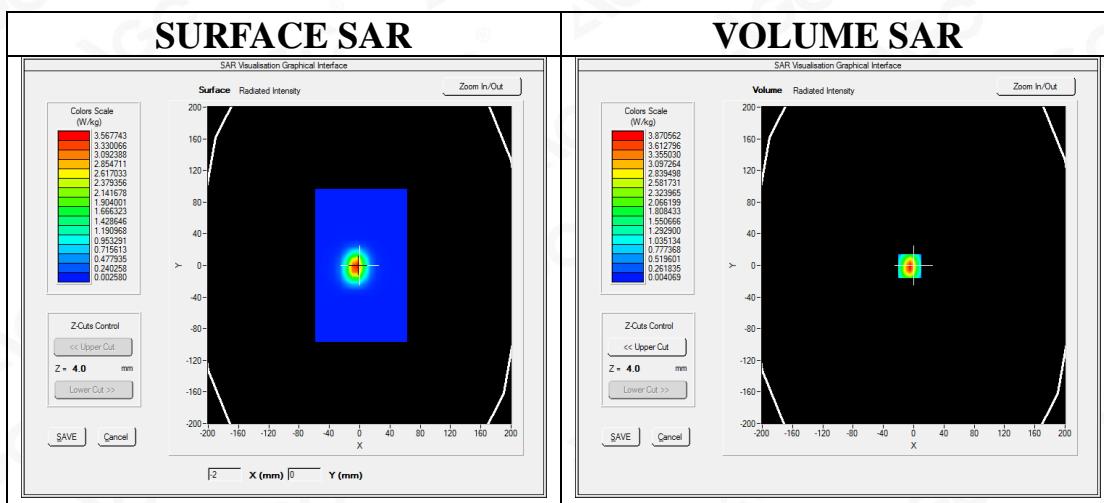
Date: Aug. 01,2019

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/System Check 2600 Body/Area Scan:** Measurement grid: dx=8mm,dy=8mm

**Configuration/System Check 2600 Body /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=-5.00, Y=-1.00

SAR Peak: 7.90 W/kg

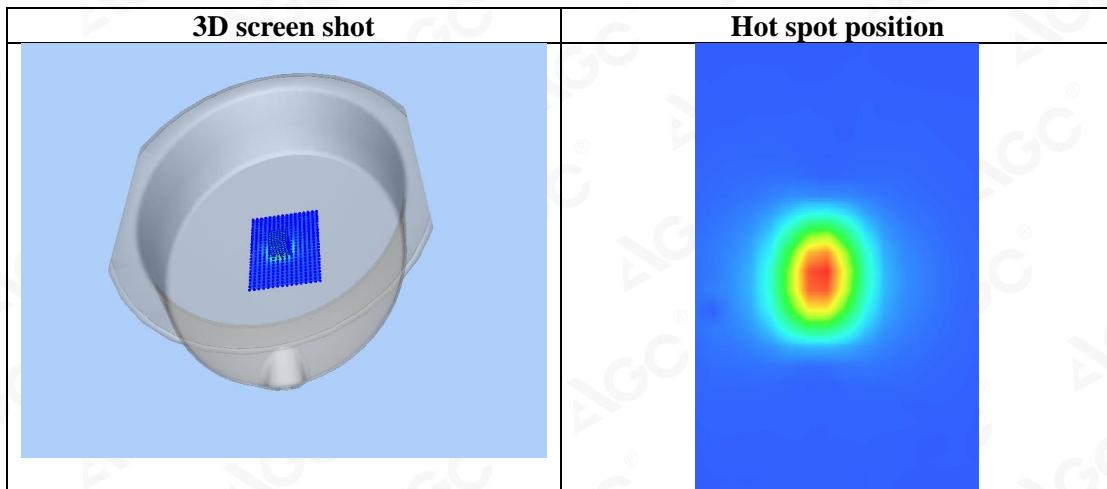
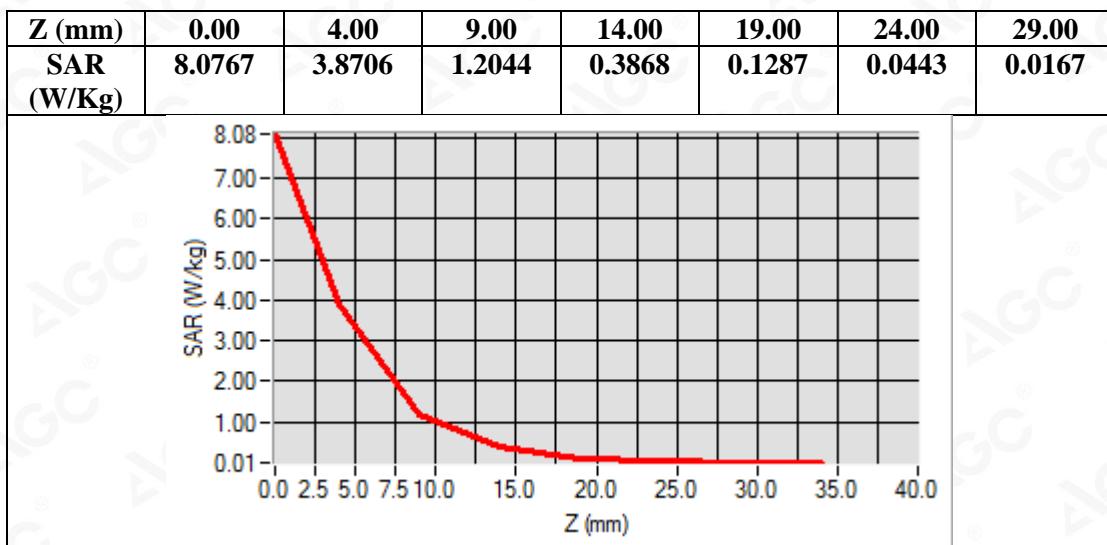
<b>SAR 10g (W/Kg)</b>	1.503144
<b>SAR 1g (W/Kg)</b>	3.423194



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**Test Laboratory: AGC Lab**  
**System Check Head 5200 MHz**  
**DUT: Dipole 5000MHz Type: SWG5500**

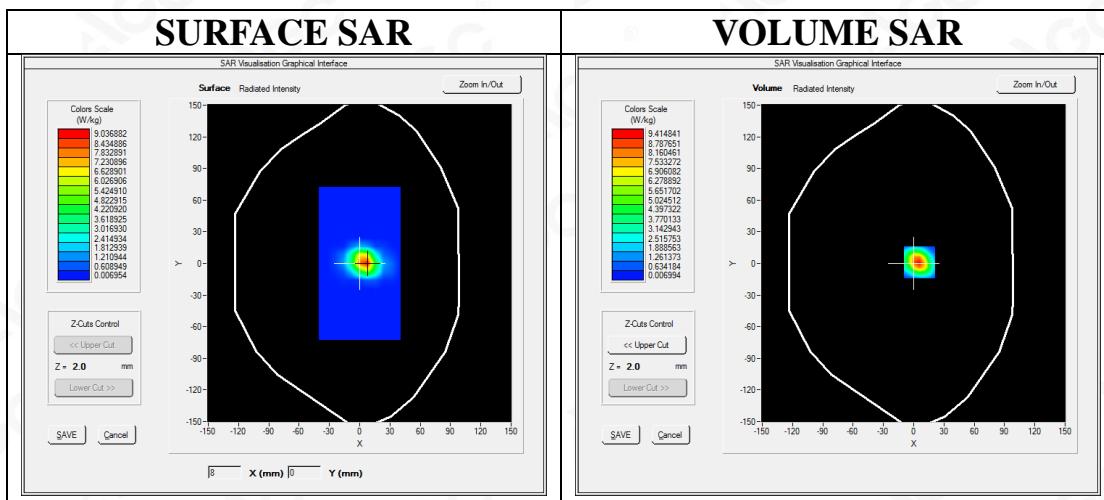
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=2.46  
 Frequency: 5200 MHz; Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.61$  mho/m;  $\epsilon_r = 35.64$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
 Phantom section: Flat Section; Input Power=15dBm  
 Ambient temperature (°C): 20.6, Liquid temperature (°C): 20.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Mar. 25,2019; Serial No.: SN 45/15 EPGO281
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/System Check 5200 Head/Area Scan:** Measurement grid: dx=8mm,dy=8mm

**Configuration/System Check 5200 Head/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm



**Maximum location: X=6.00, Y=1.00**

**SAR Peak: 15.09 W/kg**

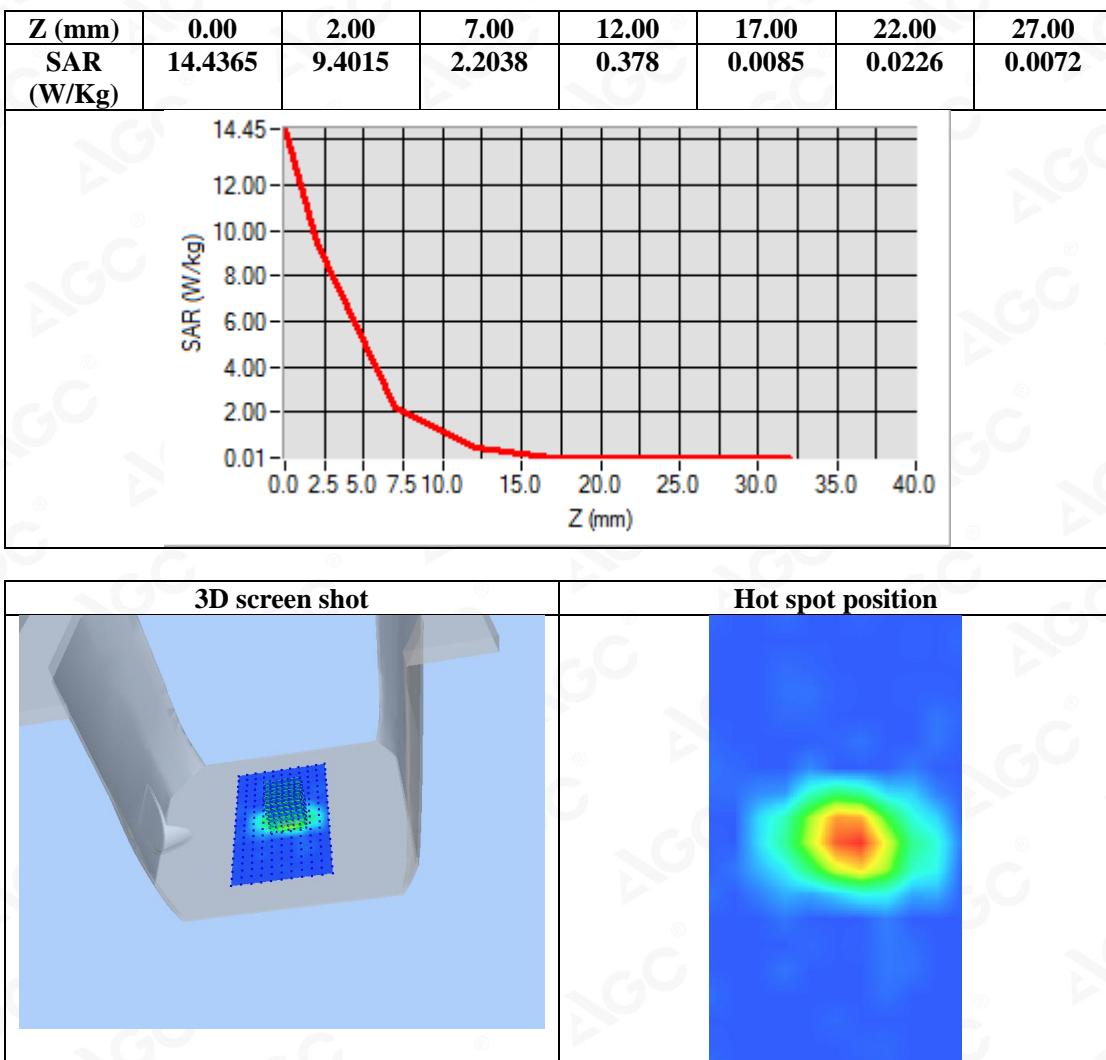
<b>SAR 10g (W/Kg)</b>	1.742684
<b>SAR 1g (W/Kg)</b>	5.052657



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**Test Laboratory: AGC Lab**  
**System Check Body 5200 MHz**  
**DUT: Dipole 5000MHz Type: SWG5500**

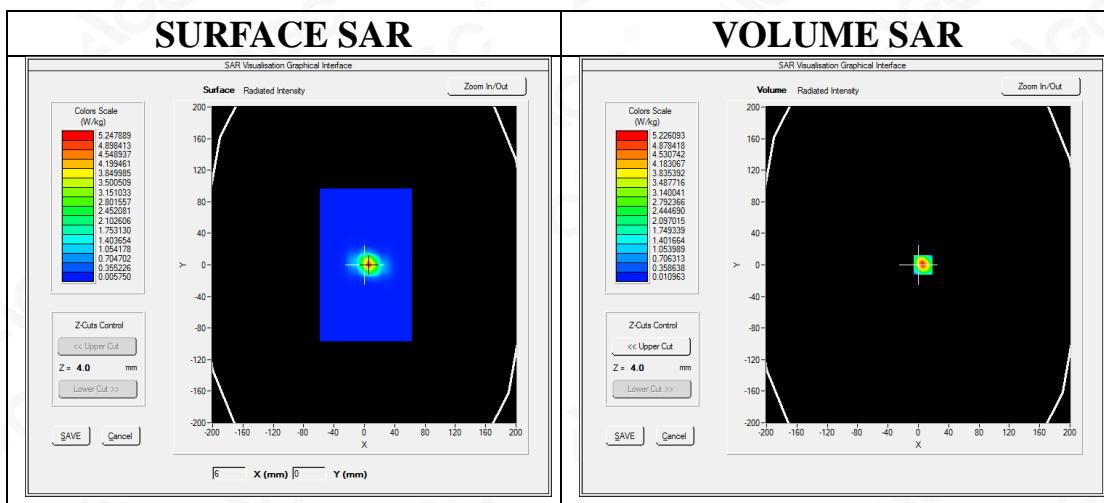
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=2.52  
 Frequency: 5200 MHz; Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.32$  mho/m;  $\epsilon_r = 48.90$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
 Phantom section: Flat Section; Input Power=15dBm  
 Ambient temperature (°C): 20.6, Liquid temperature (°C): 20.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Mar. 25,2019; Serial No.: SN 45/15 EPGO281
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/System Check 5200 Body/Area Scan:** Measurement grid: dx=8mm,dy=8mm

**Configuration/System Check 5200 Body /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm



**Maximum location: X=6.00, Y=0.00**

**SAR Peak: 12.84 W/kg**

<b>SAR 10g (W/Kg)</b>	1.648521
<b>SAR 1g (W/Kg)</b>	4.884215



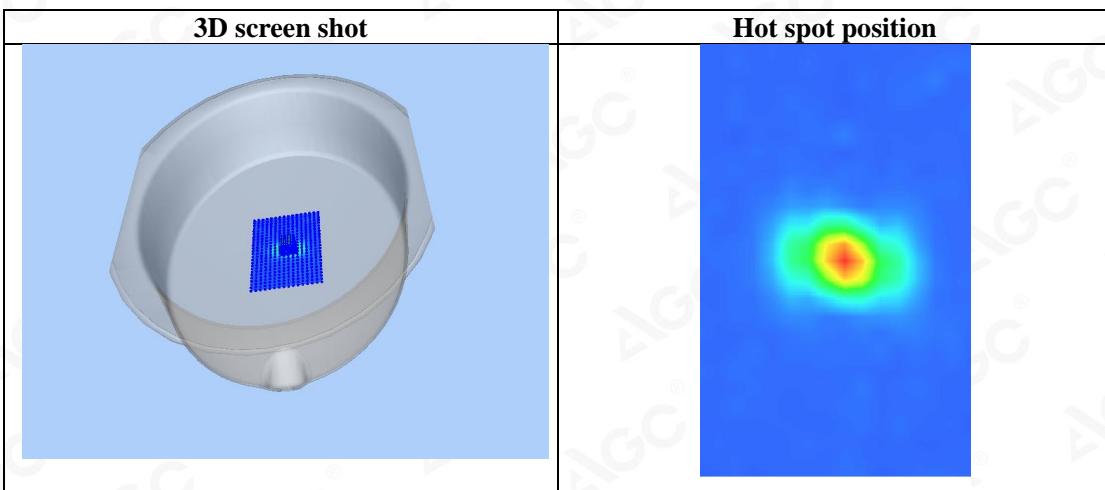
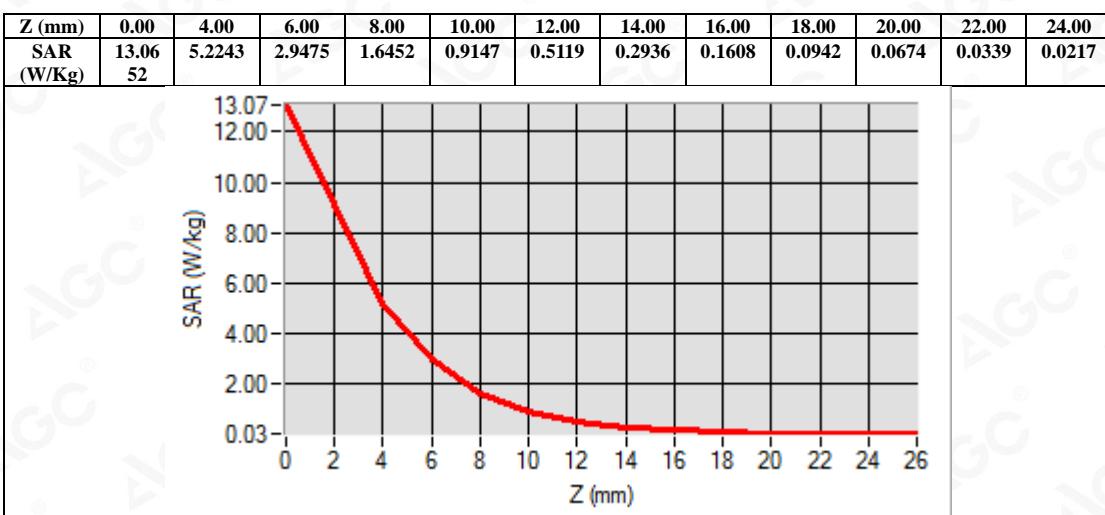
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## APPENDIX B. SAR MEASUREMENT DATA

**Test Laboratory:** AGC Lab  
**GSM 850 Mid-Touch-Left <SIM 1>**  
**DUT:** Smart Phone; Type: X19

**Date:** Aug. 04,2019

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=5.29; Frequency: 836.6 MHz; Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.92 \text{ mho/m}$ ;  $\epsilon_r = 40.74$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom section: Left Section  
 Ambient temperature (°C): 21.2, Liquid temperature (°C): 20.8

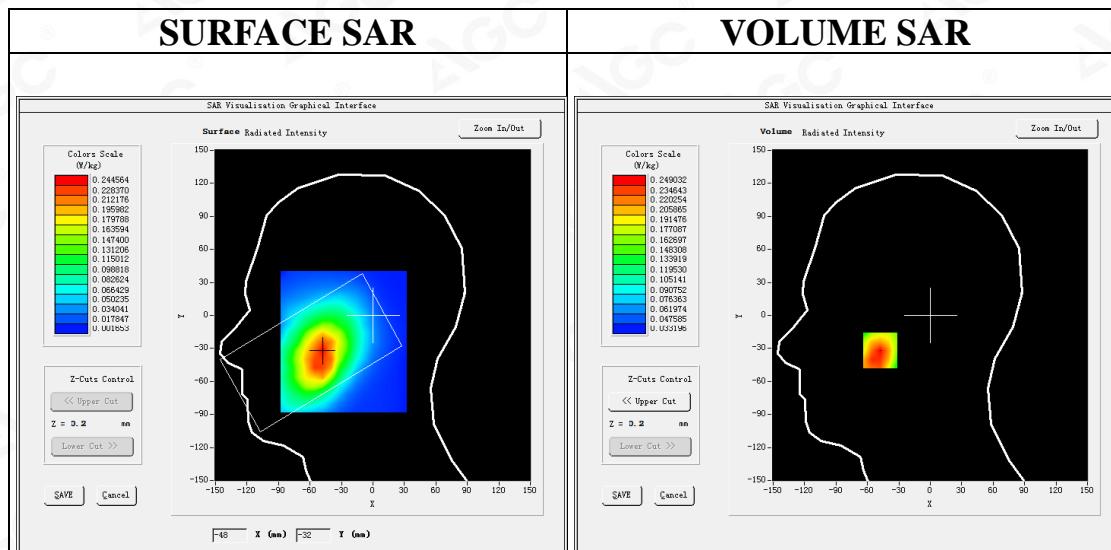
### SATIMO Configuration

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/GSM 850 Mid-Touch-Left/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/GSM 850 Mid-Touch-Left/Zoom Scan :** Measurement grid: dx=8mm,dy=8mm, dz=5mm

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<b>Phantom</b>	Left head
<b>Device Position</b>	Cheek
<b>Band</b>	GSM 850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)



**Maximum location: X=-48.00, Y=-32.00**

**SAR Peak: 0.32 W/kg**

<b>SAR 10g (W/Kg)</b>	0.176407
<b>SAR 1g (W/Kg)</b>	0.241911



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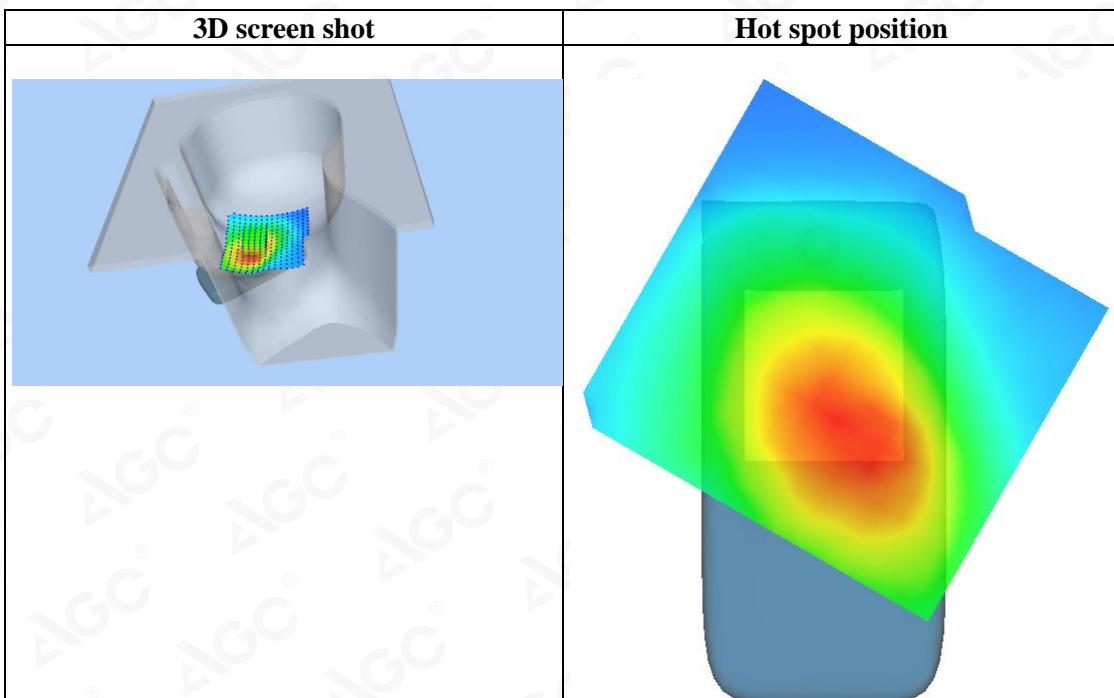
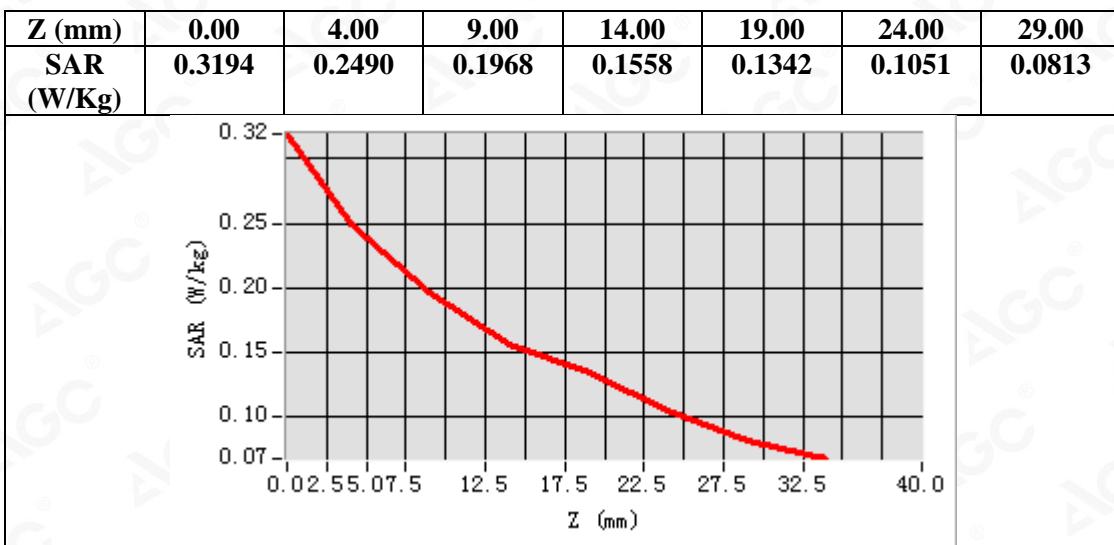
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**Test Laboratory: AGC Lab**  
**GPRS 850 Mid- Body- Back (2up)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 04,2019**

Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Conv.F=5.49;  
 Frequency: 836.6 MHz; Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.96 \text{ mho/m}$ ;  $\epsilon_r = 54.08$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
 Phantom section: Flat Section  
 Ambient temperature ( $^{\circ}\text{C}$ ): 21.2, Liquid temperature ( $^{\circ}\text{C}$ ): 20.9

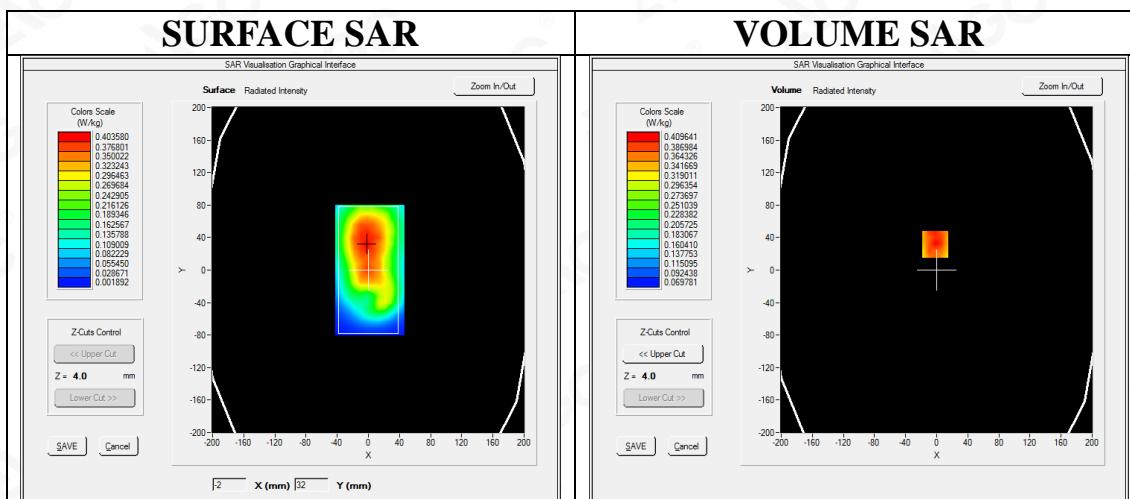
**SATIMO Configuration:**

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/GPRS 850 Mid-Body-Back/Area Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$

**Configuration/GPRS 850 Mid-Body-Back/Zoom Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ ;

<b>Area Scan</b>	$dx=8\text{mm}$ $dy=8\text{mm}$ , $h= 5.00 \text{ mm}$
<b>Zoom Scan</b>	$5 \times 5 \times 7$ , $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$ , Complete
<b>Phantom</b>	ELLI
<b>Device Position</b>	Body Back
<b>Band</b>	GSM 850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 4.0)



**Maximum location: X=-2.00, Y=32.00**  
**SAR Peak: 0.53 W/kg**

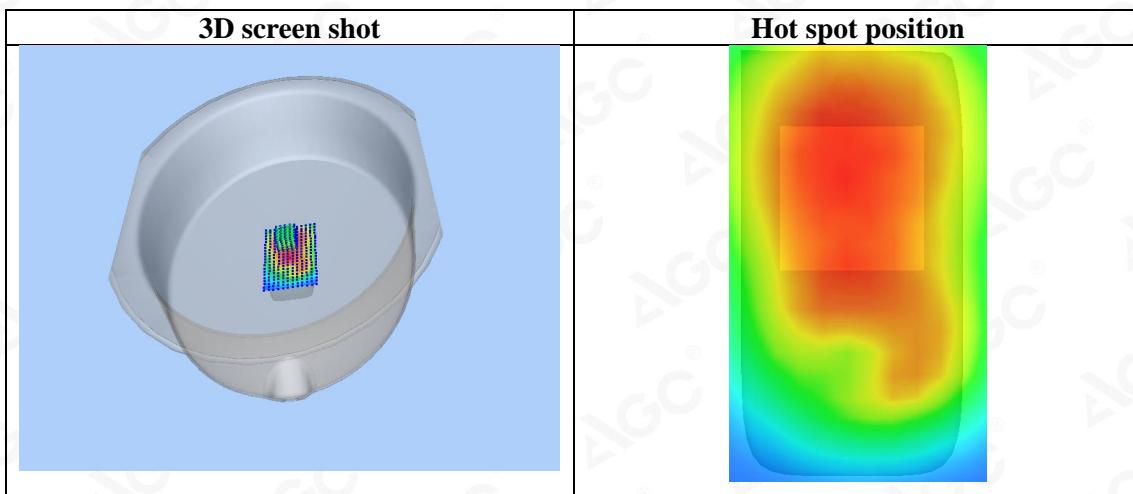
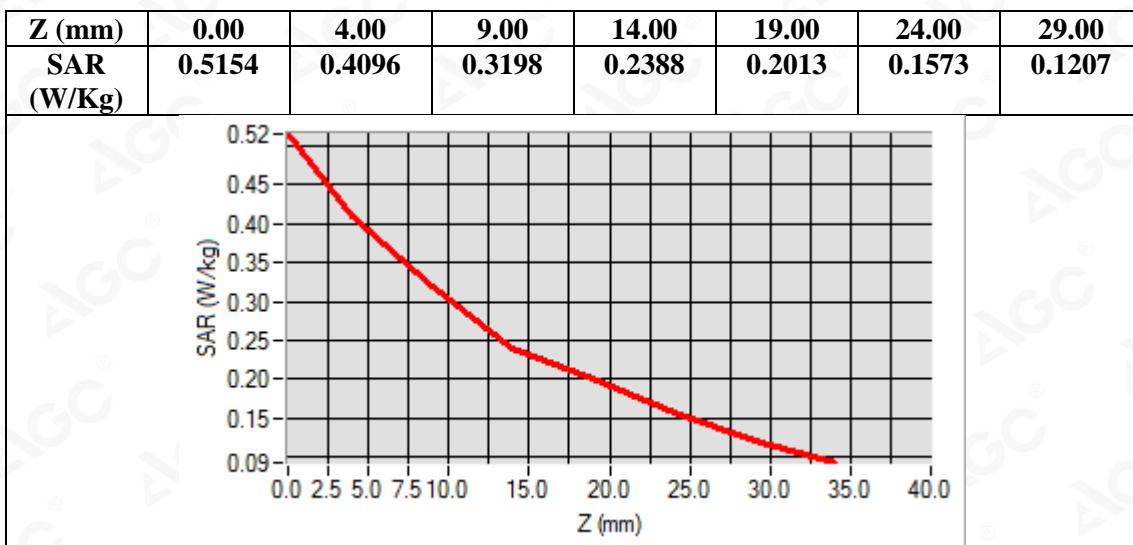
<b>SAR 10g (W/Kg)</b>	0.294576
<b>SAR 1g (W/Kg)</b>	0.397423



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**Test Laboratory: AGC Lab**  
**PCS 1900 Mid-Touch-Right <SIM 1>**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 08,2019**

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=5.24;  
 Frequency: 1880 MHz; Medium parameters used:  $f = 1850 \text{ MHz}$ ;  $\sigma = 1.40 \text{ mho/m}$ ;  $\epsilon_r = 40.45$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
 Phantom section: Right Section  
 Ambient temperature ( $^{\circ}\text{C}$ ): 21.1, Liquid temperature ( $^{\circ}\text{C}$ ): 20.8

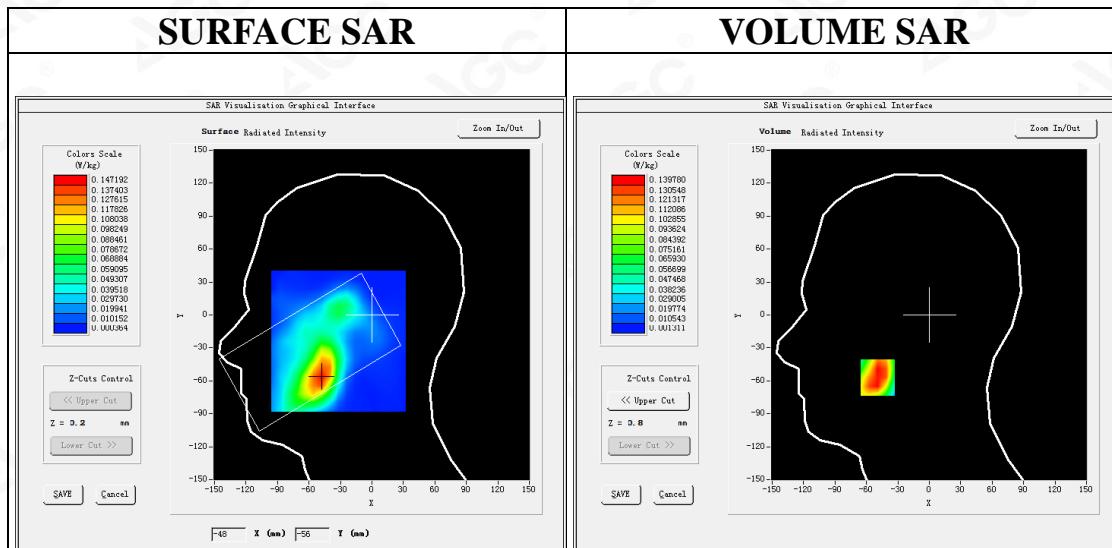
**SATIMO Configuration:**

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/PCS1900 Mid-Touch-Right/Area Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$

**Configuration/PCS1900 Mid-Touch-Right/Zoom Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ ;

<b>Area Scan</b>	$dx=8\text{mm}$ $dy=8\text{mm}$ , $h= 5.00 \text{ mm}$
<b>ZoomScan</b>	$5\times 5\times 7$ , $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$ , Complete
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	PCS 1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)



**Maximum location: X=-49.00, Y=-57.00**

**SAR Peak: 0.21 W/kg**

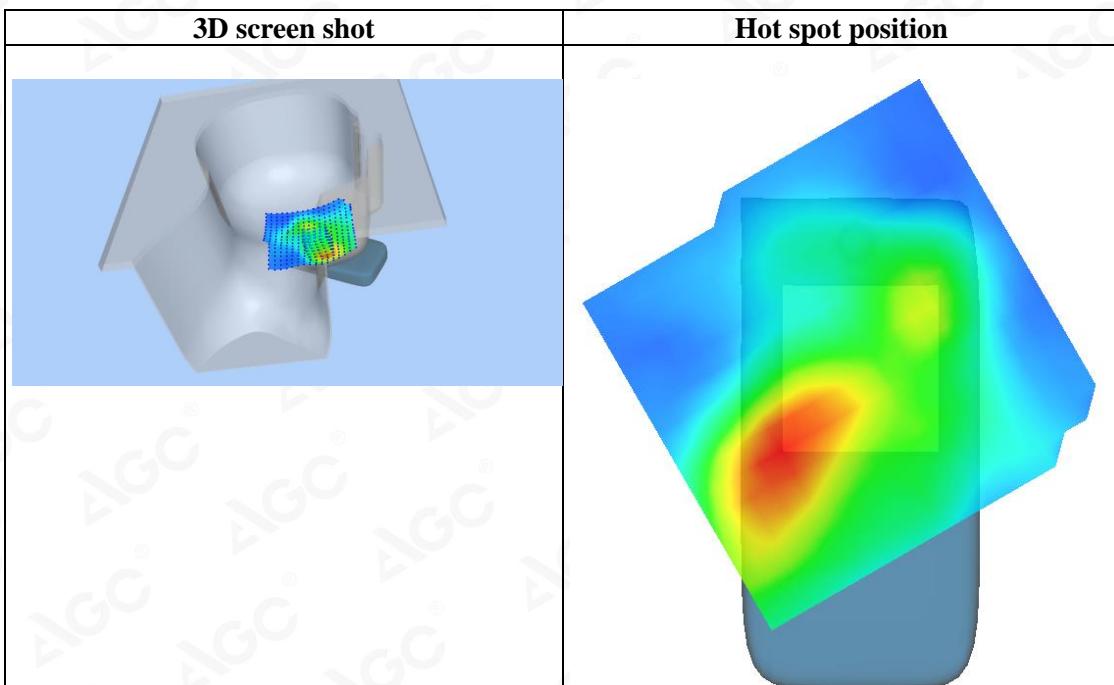
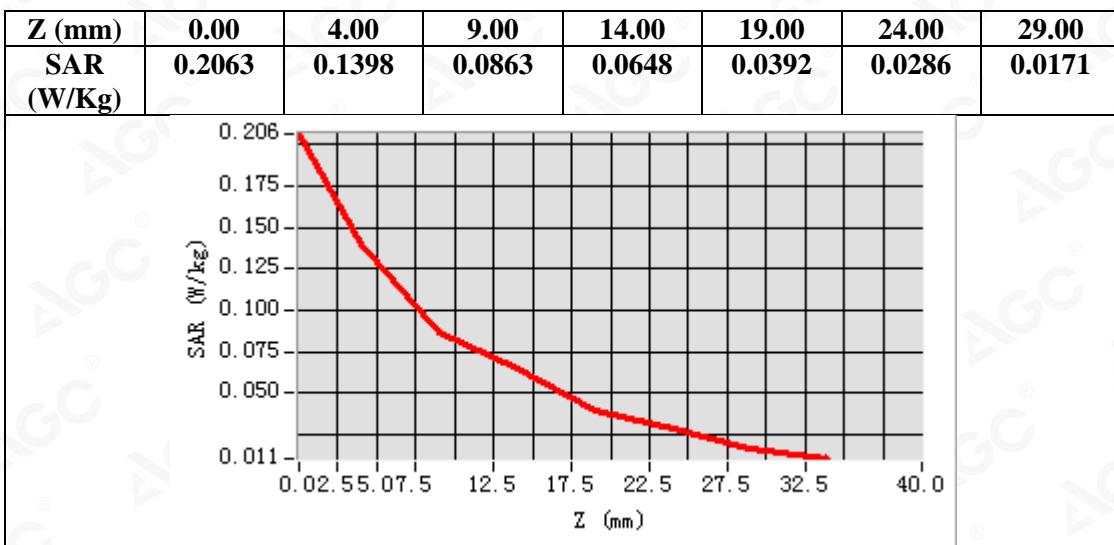
<b>SAR 10g (W/Kg)</b>	0.080286
<b>SAR 1g (W/Kg)</b>	0.134726



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**Test Laboratory: AGC Lab**  
**GPRS 1900 Mid-Body-Back (3up)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 08,2019**

Communication System: GPRS-3Slot; Communication System Band: PCS 1900; Duty Cycle: 1:4.2; Conv.F=5.39;  
 Frequency: 1880 MHz; Medium parameters used:  $f = 1850 \text{ MHz}$ ;  $\sigma = 1.52 \text{ mho/m}$ ;  $\epsilon_r = 53.26$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
 Phantom section: Flat Section  
 Ambient temperature ( $^{\circ}\text{C}$ ): 21.1, Liquid temperature ( $^{\circ}\text{C}$ ): 20.7

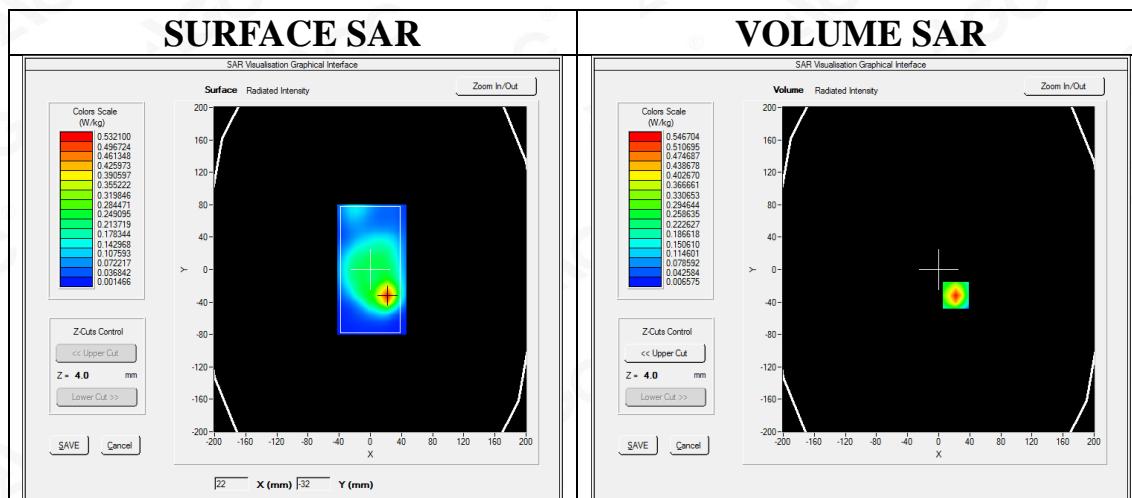
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/GPRS1900 Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/GPRS1900 Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<b>Phantom</b>	ELLI
<b>Device Position</b>	Body Back
<b>Band</b>	PCS 1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 4.0)



**Maximum location: X=22.00, Y=-32.00**  
**SAR Peak: 0.88 W/kg**

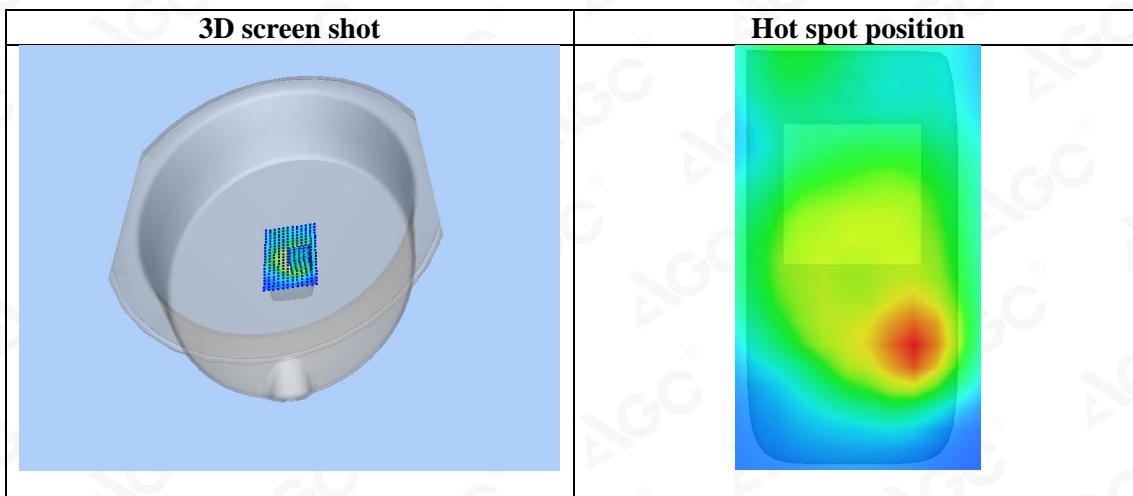
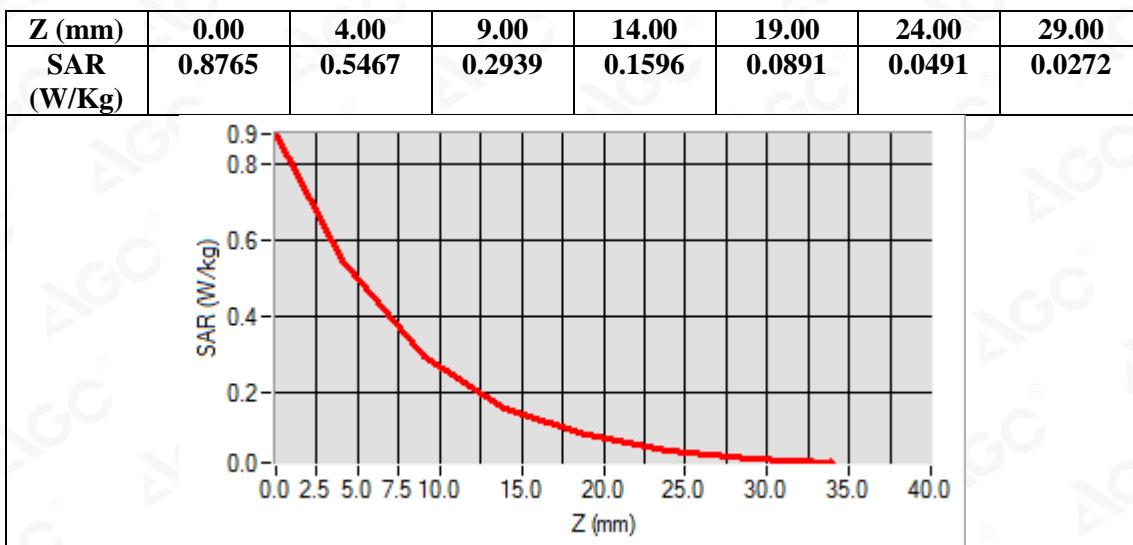
<b>SAR 10g (W/Kg)</b>	0.251130
<b>SAR 1g (W/Kg)</b>	0.503105



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**Test Laboratory: AGC Lab**  
**WCDMA Band II Mid-Touch-Right (RMC)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 08,2019**

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.24;  
 Frequency: 1880 MHz; Medium parameters used:  $f = 1850 \text{ MHz}$ ;  $\sigma = 1.40 \text{ mho/m}$ ;  $\epsilon_r = 40.45$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
 Phantom section: Right Section  
 Ambient temperature ( $^{\circ}\text{C}$ ): 21.1, Liquid temperature ( $^{\circ}\text{C}$ ): 20.8

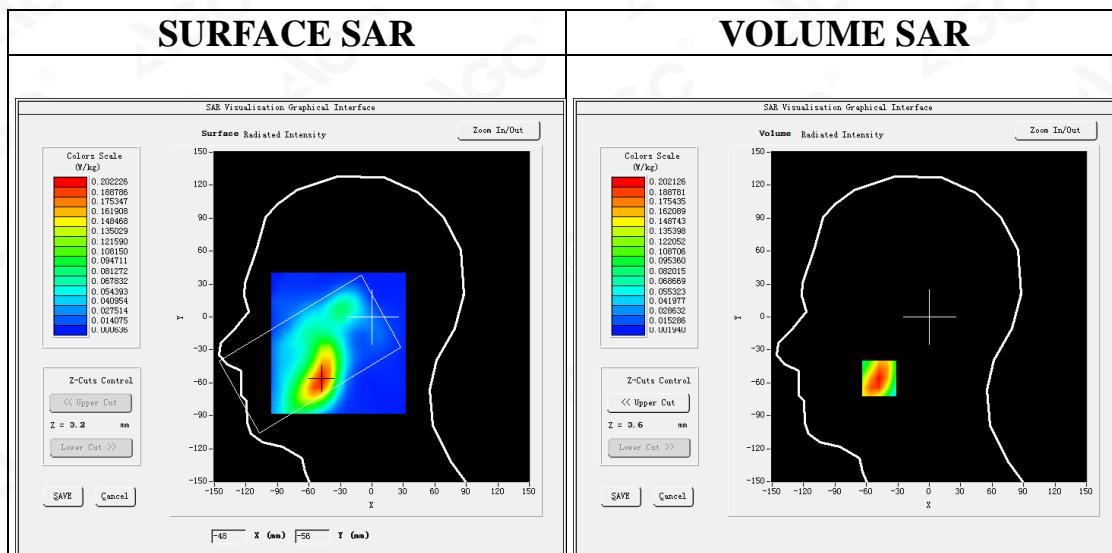
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/WCDMA band II Mid-Touch-Right/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/WCDMA band II Mid-Touch-Right/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	WCDMA band II
<b>Channels</b>	Middle
<b>Signal</b>	CDMA (Crest factor: 1.0)



**Maximum location: X=-48.00, Y=-56.00**

**SAR Peak: 0.29 W/kg**

<b>SAR 10g (W/Kg)</b>	0.114386
<b>SAR 1g (W/Kg)</b>	0.193664



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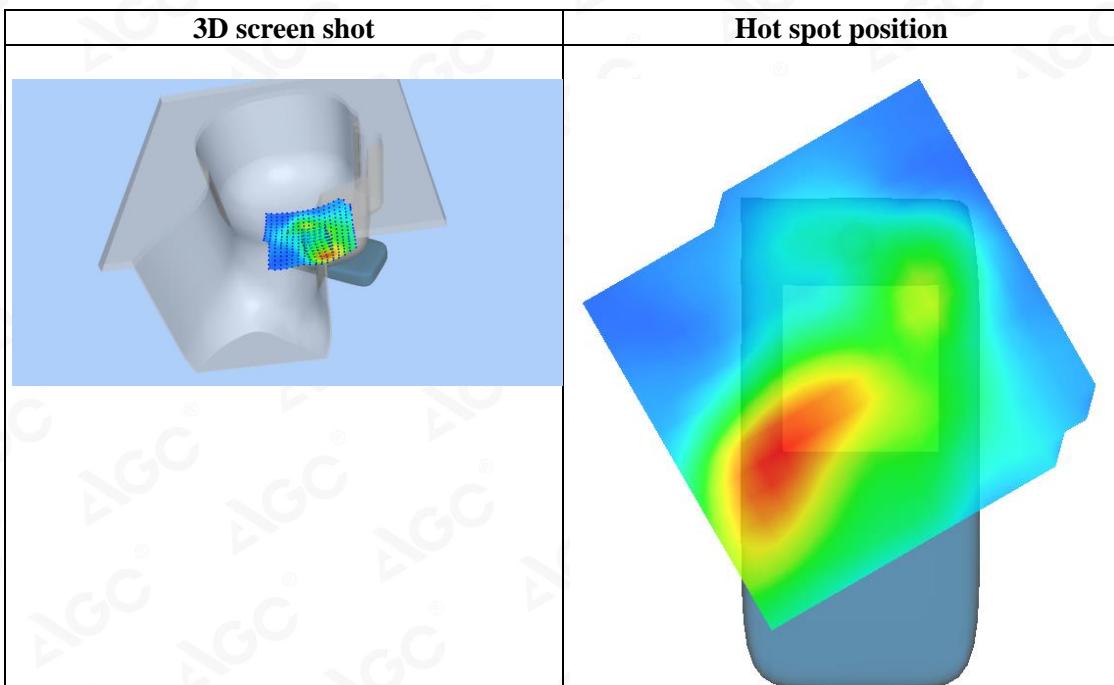
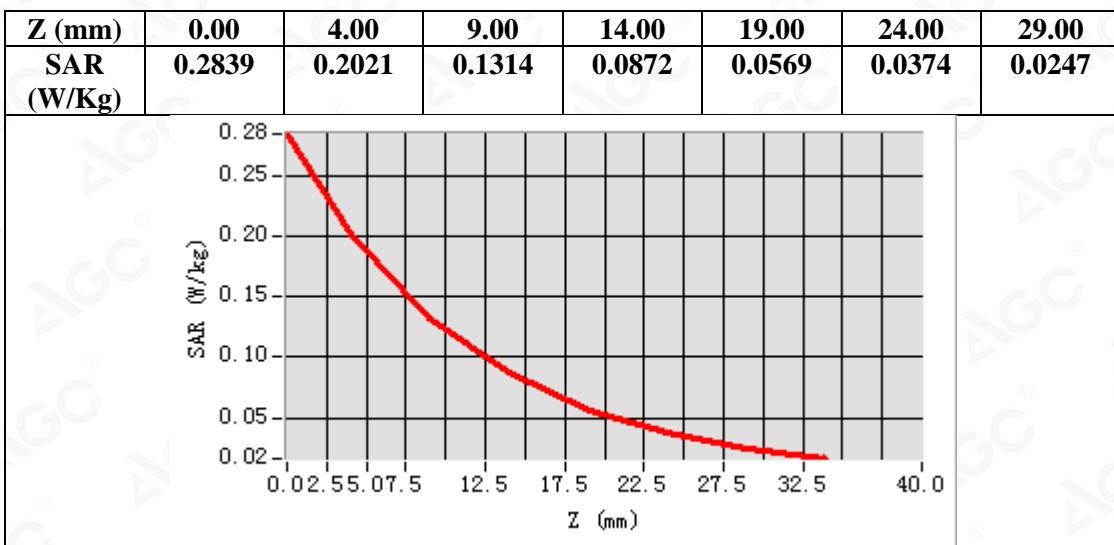
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**Test Laboratory: AGC Lab**  
**WCDMA Band II Mid-Body-Towards Grounds (RMC 12.2kbps)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 08,2019**

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.39;  
 Frequency: 1880 MHz; Medium parameters used:  $f = 1850 \text{ MHz}$ ;  $\sigma = 1.52 \text{ mho/m}$ ;  $\epsilon_r = 53.26$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
 Phantom section: Flat Section  
 Ambient temperature ( $^{\circ}\text{C}$ ): 21.1, Liquid temperature ( $^{\circ}\text{C}$ ): 20.7

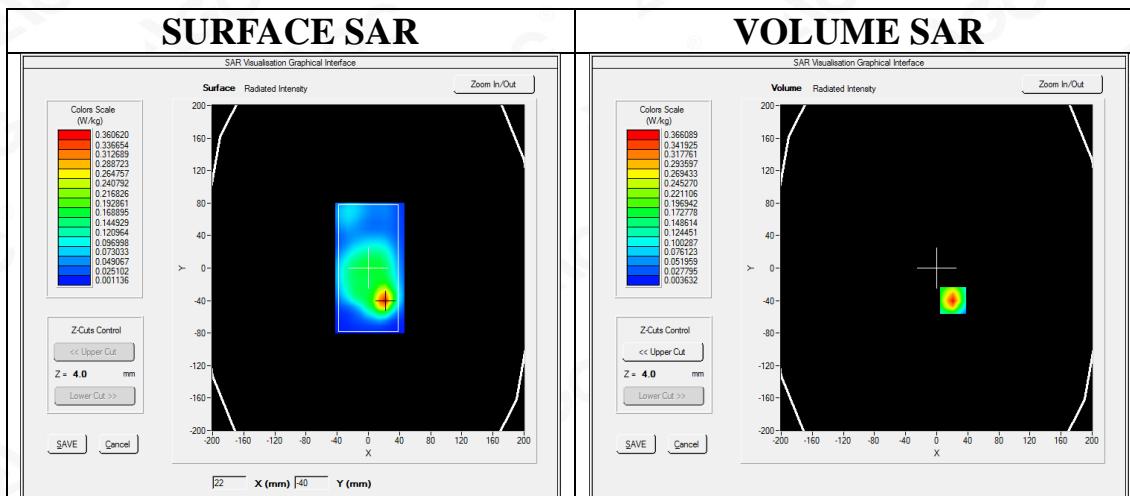
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ WCDMA band II Mid-Body-back/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/ WCDMA band II Mid-Body-back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<b>Phantom</b>	ELLI
<b>Device Position</b>	Body Back
<b>Band</b>	WCDMA band II
<b>Channels</b>	Middle
<b>Signal</b>	CDMA (Crest factor: 1.0)



**Maximum location: X=21.00, Y=-40.00**  
**SAR Peak: 0.59 W/kg**

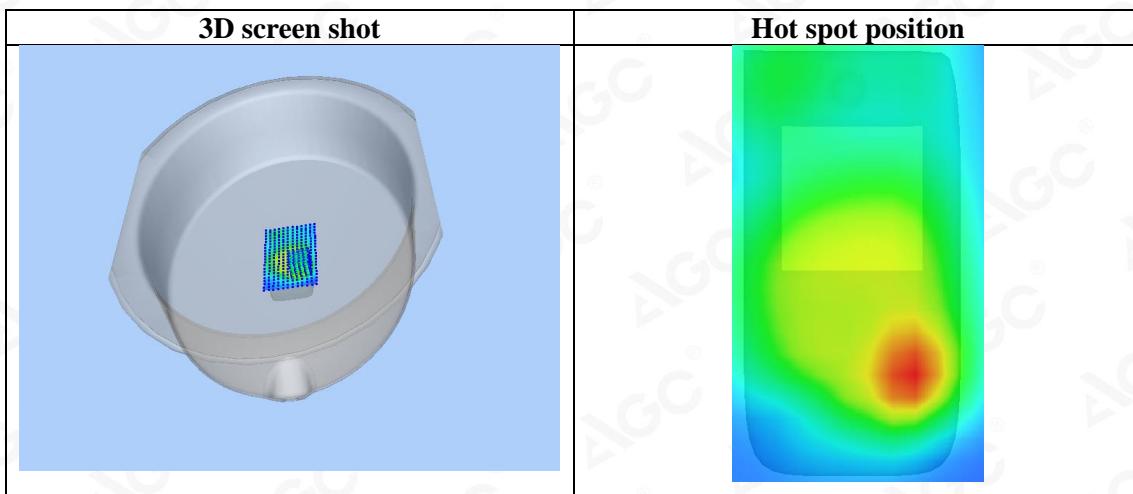
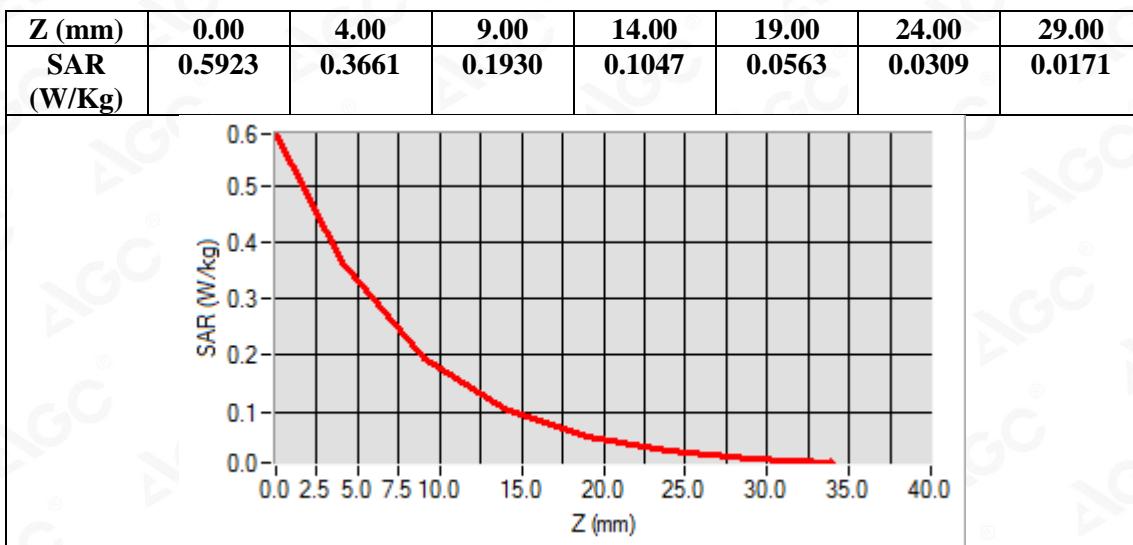
<b>SAR 10g (W/Kg)</b>	0.169767
<b>SAR 1g (W/Kg)</b>	0.340809



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**Test Laboratory: AGC Lab**  
**WCDMA Band V Mid-Touch-Left (RMC )**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 04,2019**

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=5.29;  
 Frequency: 836.6 MHz; Medium parameters used:  $f = 835\text{MHz}$ ;  $\sigma = 0.92 \text{ mho/m}$ ;  $\epsilon_r = 40.74$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
 Phantom section: Left Section  
 Ambient temperature (°C): 21.2, Liquid temperature (°C): 20.8

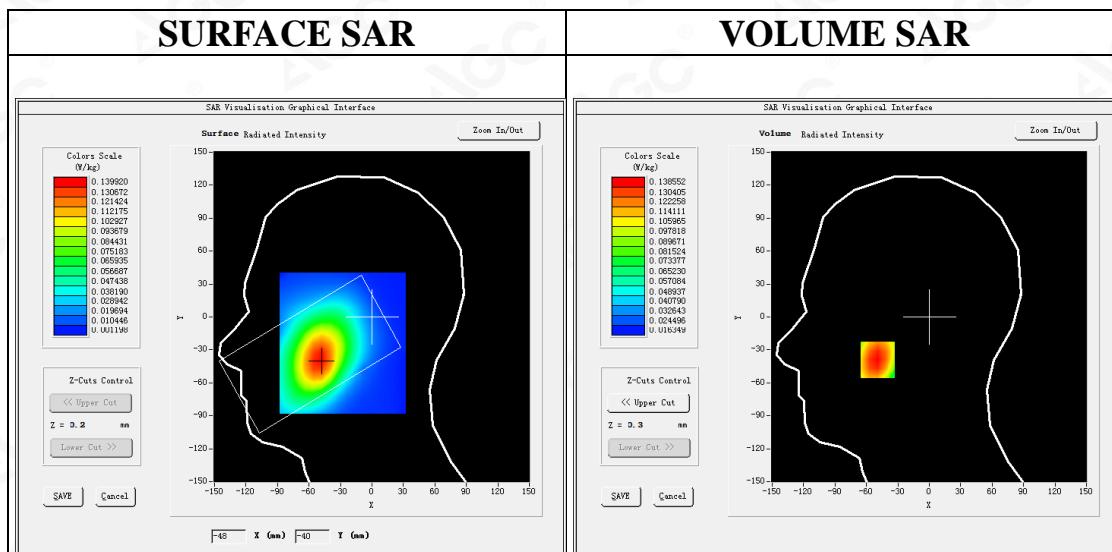
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ WCDMA Band V Mid-Touch-Left/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/ WCDMA Band V Mid-Touch-Left/Zoom Scan:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<b>Phantom</b>	Left head
<b>Device Position</b>	Cheek
<b>Band</b>	WCDMA Band V
<b>Channels</b>	Middle
<b>Signal</b>	CDMA (Crest factor: 1.0)



**Maximum location: X=-49.00, Y=-39.00**  
**SAR Peak: 0.17 W/kg**

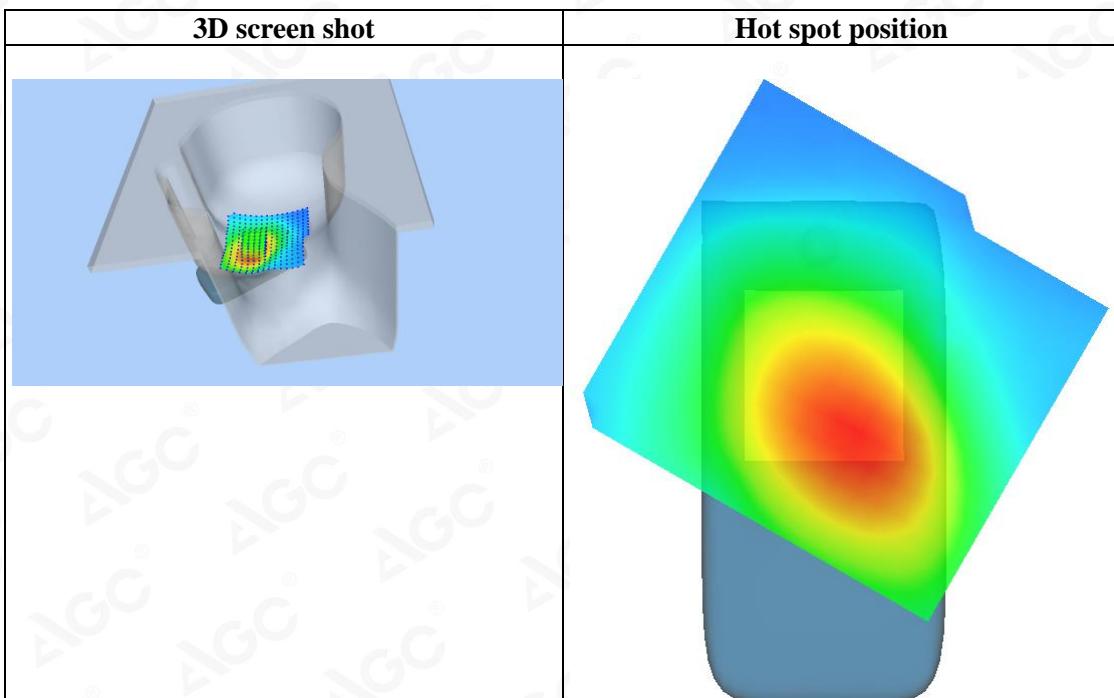
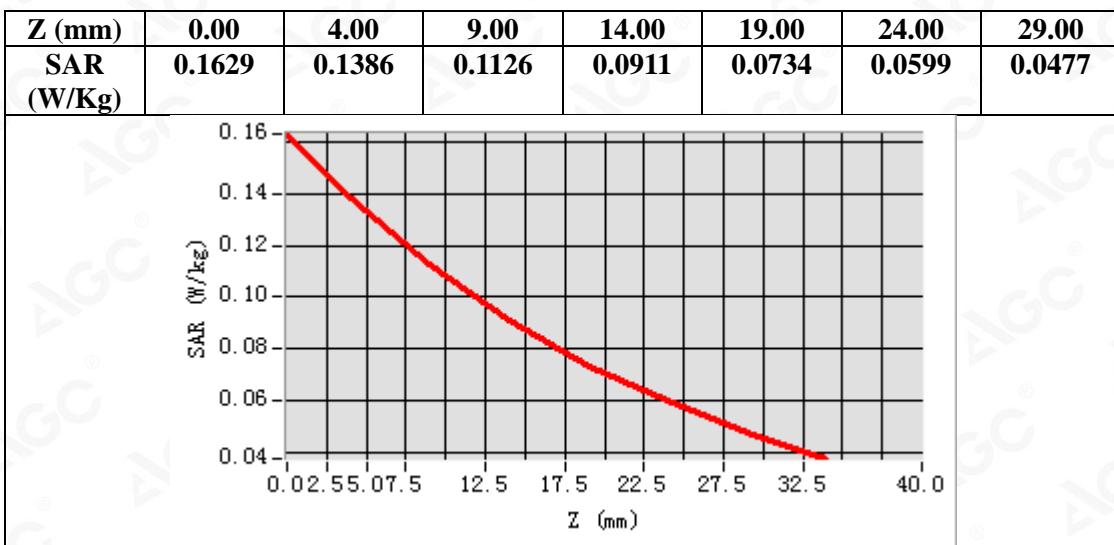
<b>SAR 10g (W/Kg)</b>	0.101769
<b>SAR 1g (W/Kg)</b>	0.134705



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**Test Laboratory: AGC Lab**
**Date: Aug. 04,2019**
**WCDMA Band V Mid-Body-Towards Grounds (RMC)**
**DUT: Smart Phone; Type: X19**

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=5.49; Frequency: 836.6 MHz; Medium parameters used:  $f = 835\text{MHz}$ ;  $\sigma = 0.96 \text{ mho/m}$ ;  $\epsilon_r = 54.08$ ;  $\rho = 1000 \text{ kg/m}^3$ ;

Phantom section: Flat Section

Ambient temperature (°C): 21.2, Liquid temperature (°C): 20.9

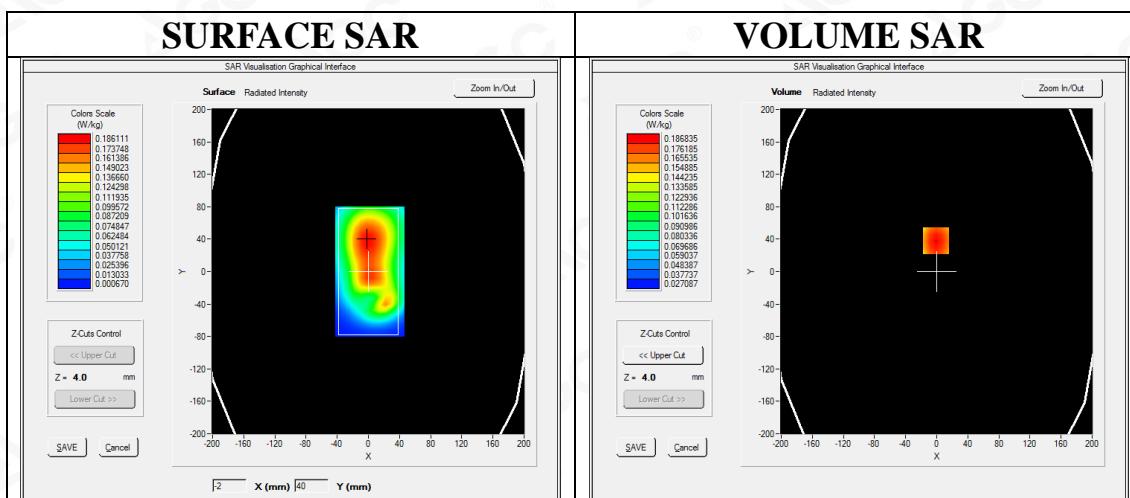
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ WCDMA Band V Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/ WCDMA Band V Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<b>Phantom</b>	ELLI
<b>Device Position</b>	Body Back
<b>Band</b>	WCDMA Band V
<b>Channels</b>	Middle
<b>Signal</b>	CDMA (Crest factor: 1.0)


**Maximum location: X=-1.00, Y=38.00**
**SAR Peak: 0.23 W/kg**

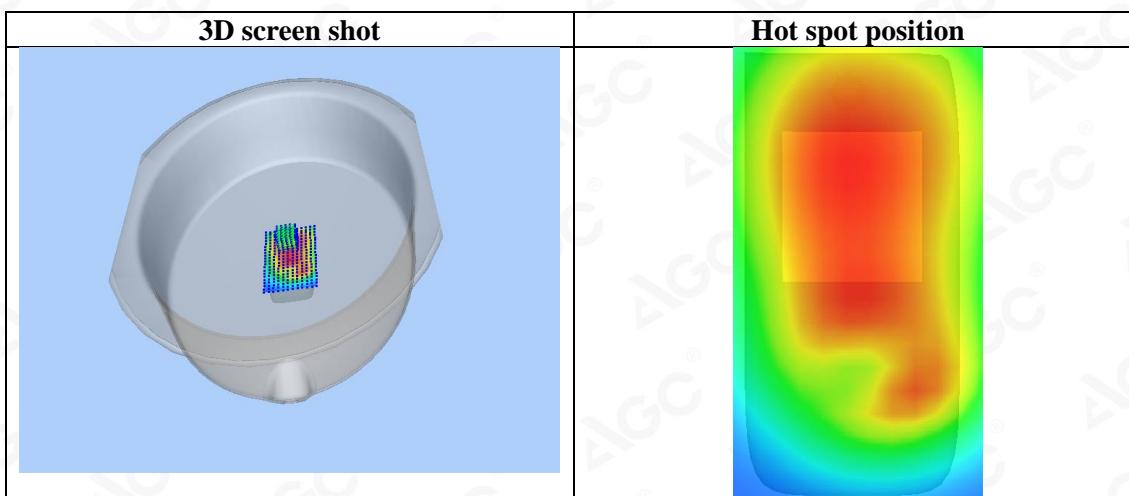
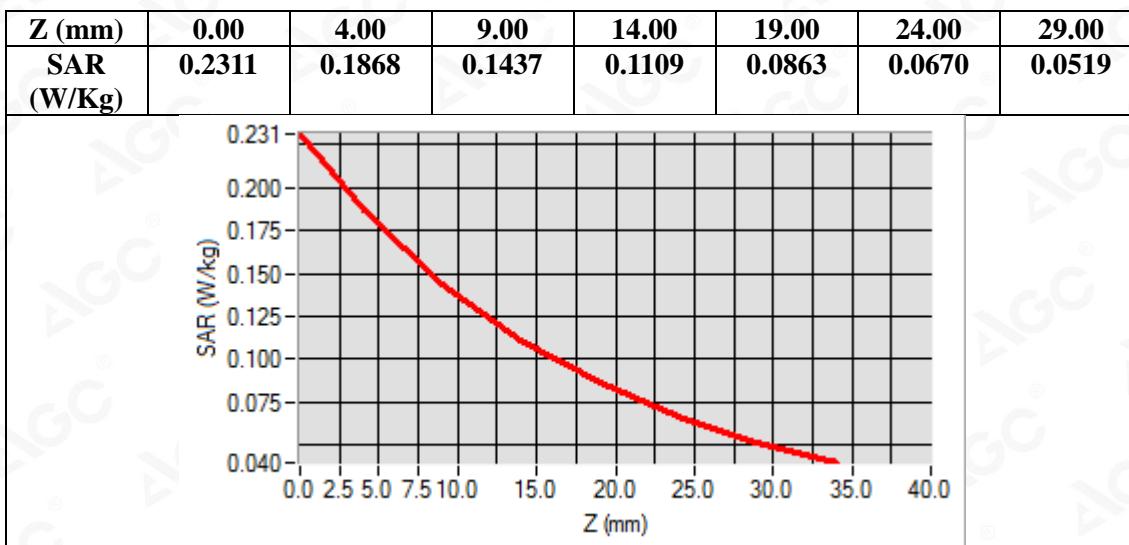
<b>SAR 10g (W/Kg)</b>	0.135748
<b>SAR 1g (W/Kg)</b>	0.181190



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**Test Laboratory: AGC Lab**  
**LTE Band 2 Mid-Touch-Right (1 RB#0)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 04,2019**

Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=5.24;  
 Frequency:1880MHz; Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 39.41$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
 Phantom section: Right Section  
 Ambient temperature (°C): 21.2, Liquid temperature (°C): 20.9

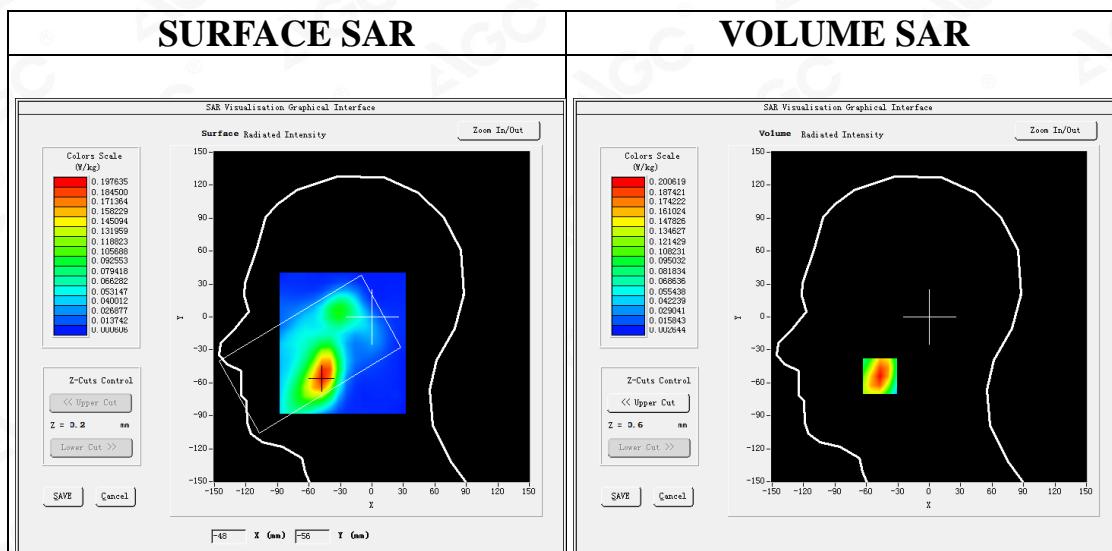
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 2 Mid- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/ LTE Band 2 Mid- Touch-Right /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 2
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-47.00, Y=-54.00**  
**SAR Peak: 0.28 W/kg**

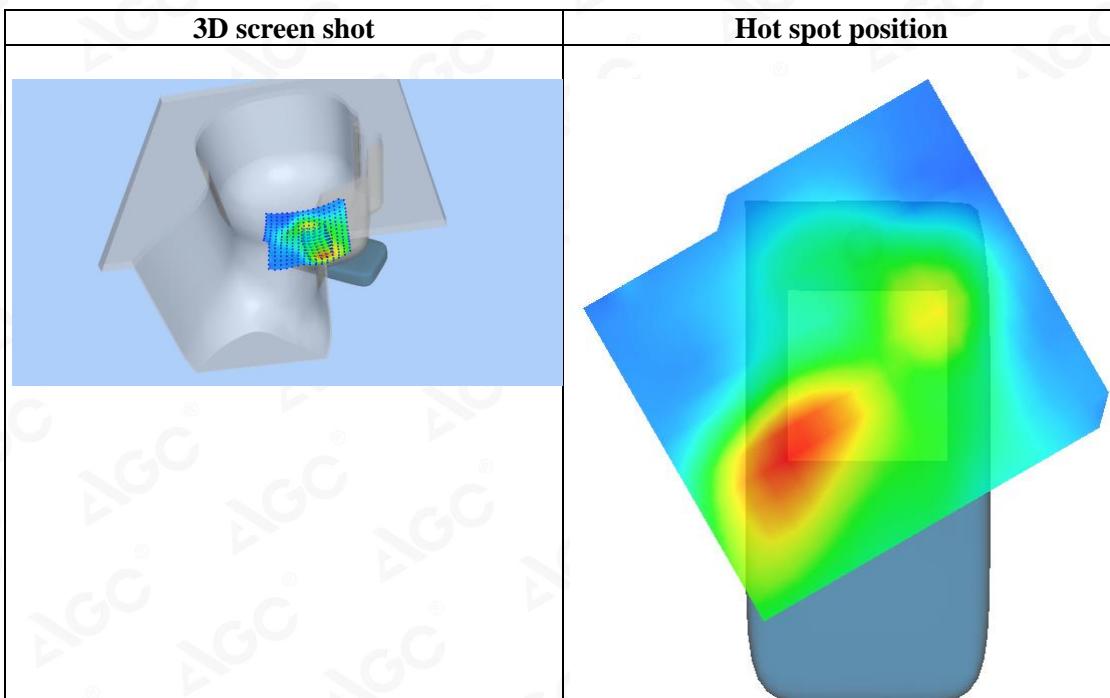
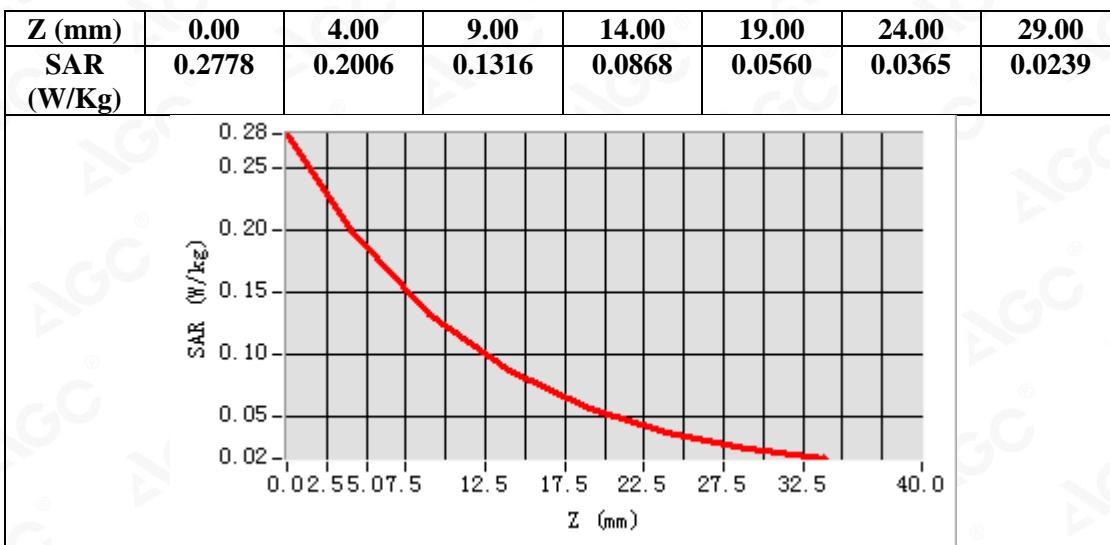
<b>SAR 10g (W/Kg)</b>	0.110247
<b>SAR 1g (W/Kg)</b>	0.188670



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**Test Laboratory: AGC Lab**  
**LTE Band 2 Mid-Body-Back (1 RB#0)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 04,2019**

Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=5.39;  
 Frequency:1880MHz; Medium parameters used:  $f = 1850 \text{ MHz}$ ;  $\sigma = 1.46 \text{ mho/m}$ ;  $\epsilon_r = 51.69$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
 Phantom section: Flat Section  
 Ambient temperature (°C): 21.2, Liquid temperature (°C): 20.8

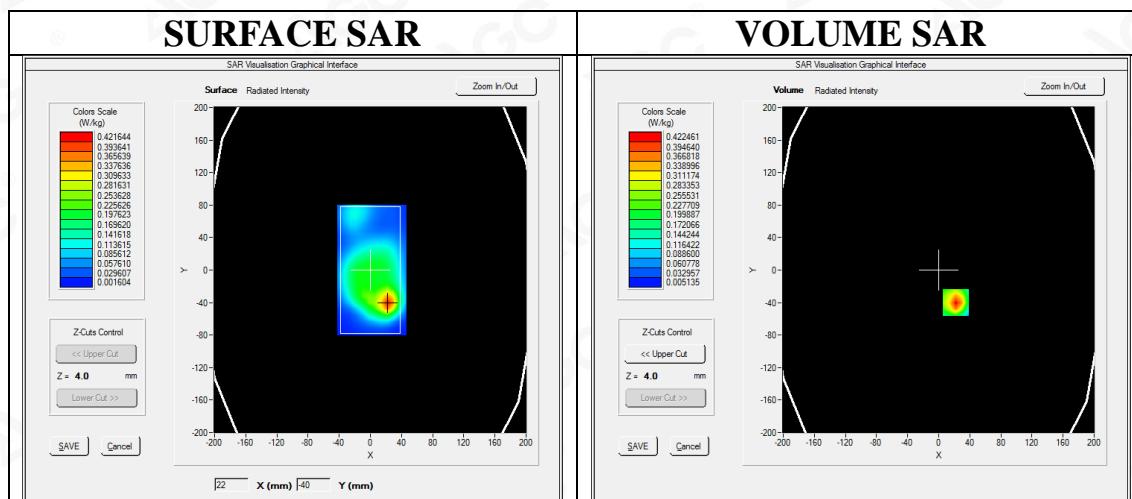
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 2 Mid-Body-back/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/ LTE Band 2 Mid-Body-back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	ELLI
<b>Device Position</b>	Body Back
<b>Band</b>	LTE Band 2
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=22.00, Y=-40.00**  
**SAR Peak: 0.68 W/kg**

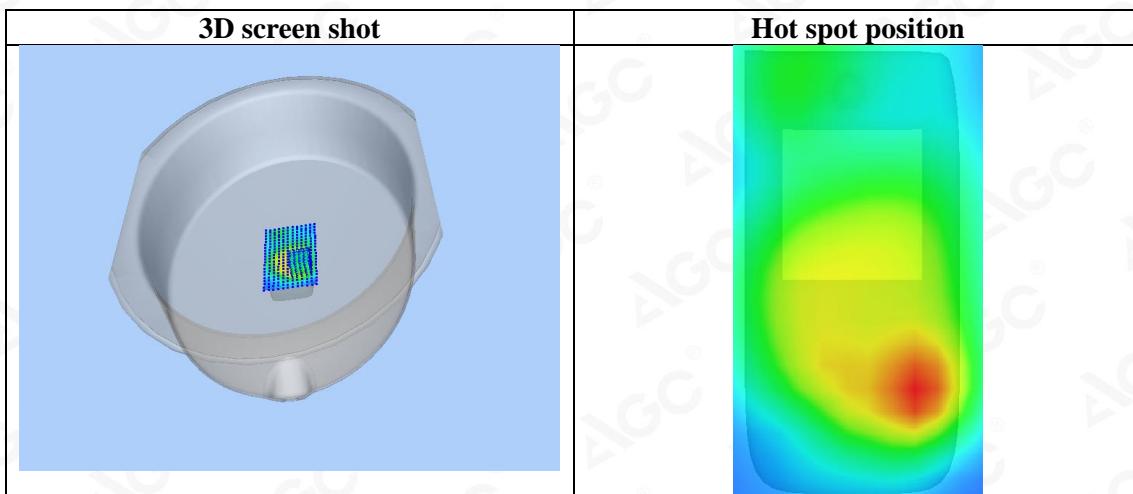
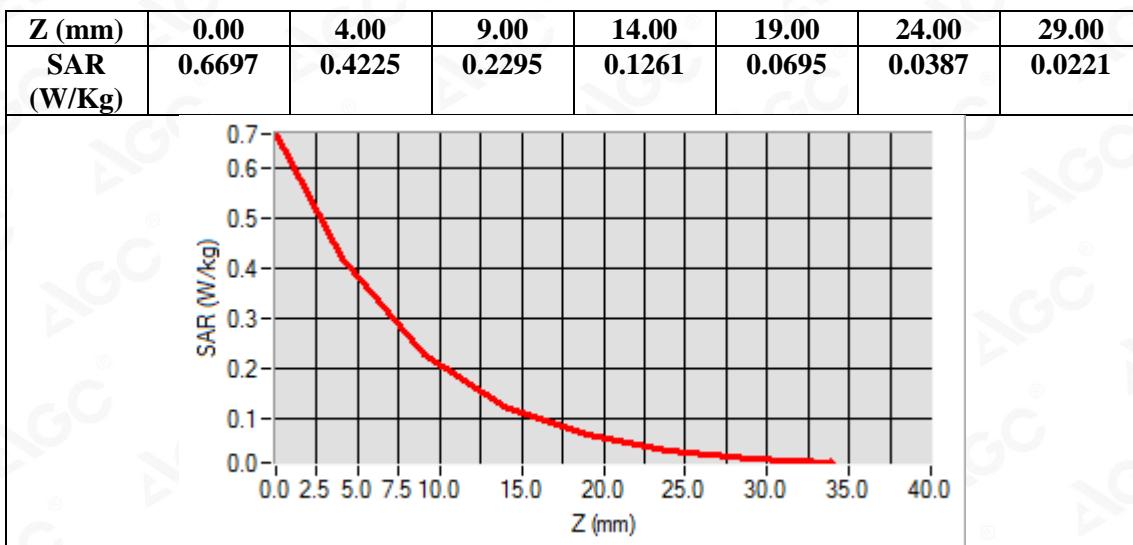
<b>SAR 10g (W/Kg)</b>	0.202292
<b>SAR 1g (W/Kg)</b>	0.398568



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**Test Laboratory: AGC Lab**  
**LTE Band 4 Mid-Touch-Left (1 RB#0)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 03,2019**

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=4.71;  
 Frequency:1732.5 MHz; Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.36$  mho/m;  $\epsilon_r = 40.45$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
 Phantom section: Right Section  
 Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.5

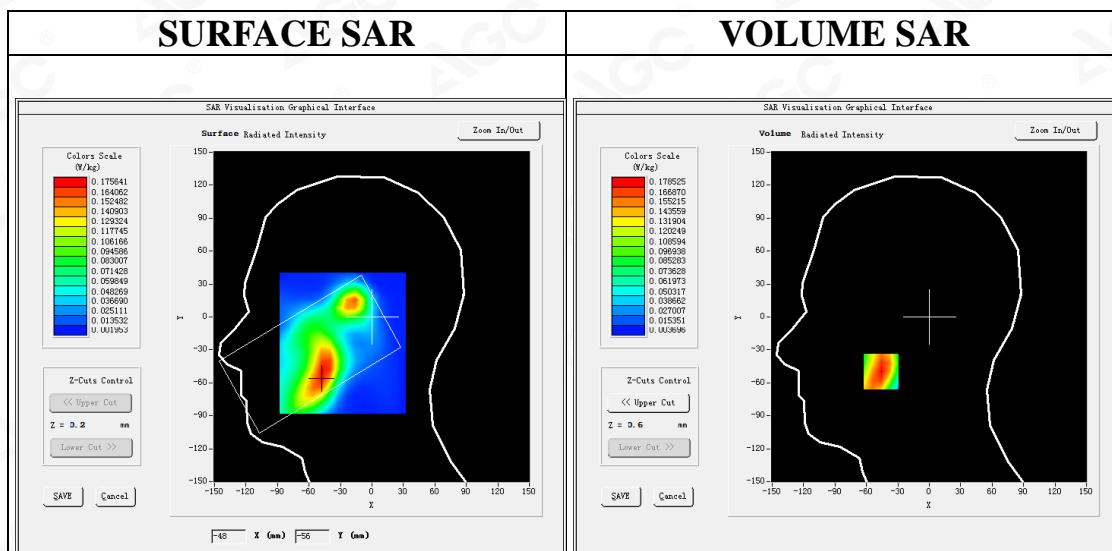
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 4 Mid- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/ LTE Band 4 Mid- Touch-Right /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 4
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-46.00, Y=-50.00**

**SAR Peak: 0.24 W/kg**

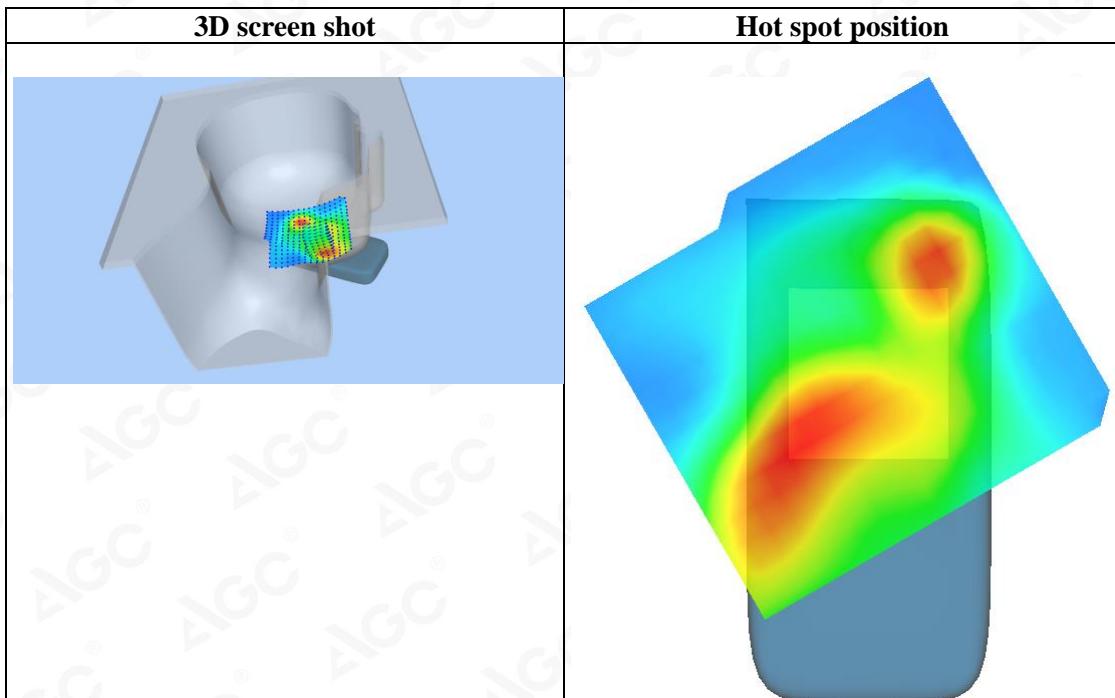
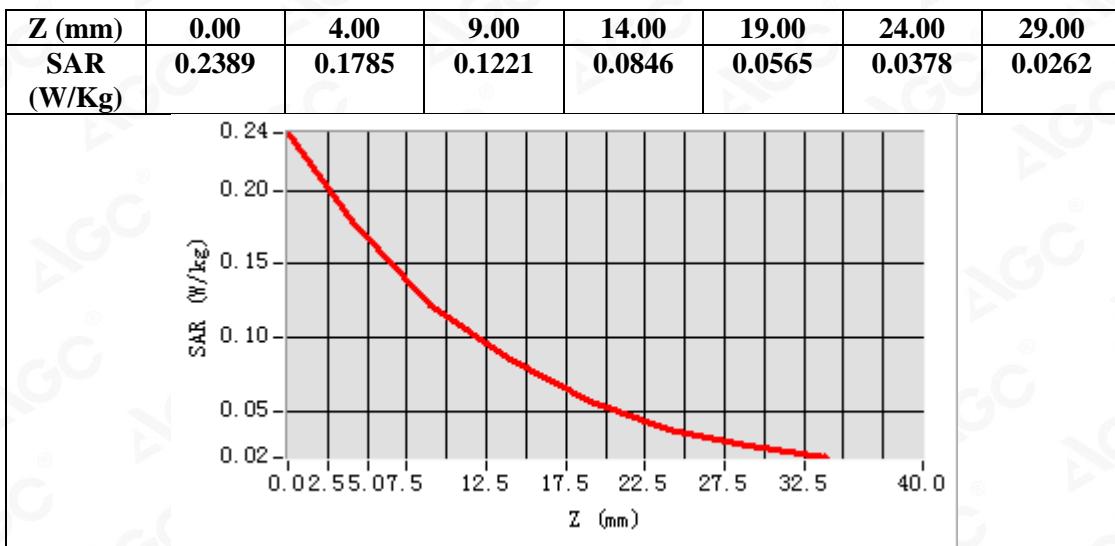
<b>SAR 10g (W/Kg)</b>	0.105584
<b>SAR 1g (W/Kg)</b>	0.169025



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**Test Laboratory: AGC Lab**  
**LTE Band 4 Mid-Body-Back (1 RB#0)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 03,2019**

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=4.81;  
 Frequency:1732.5 MHz; Medium parameters used:  $f = 1750 \text{ MHz}$ ;  $\sigma = 1.46 \text{ mho/m}$ ;  $\epsilon_r = 53.54$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
 Phantom section: Flat Section  
 Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.5

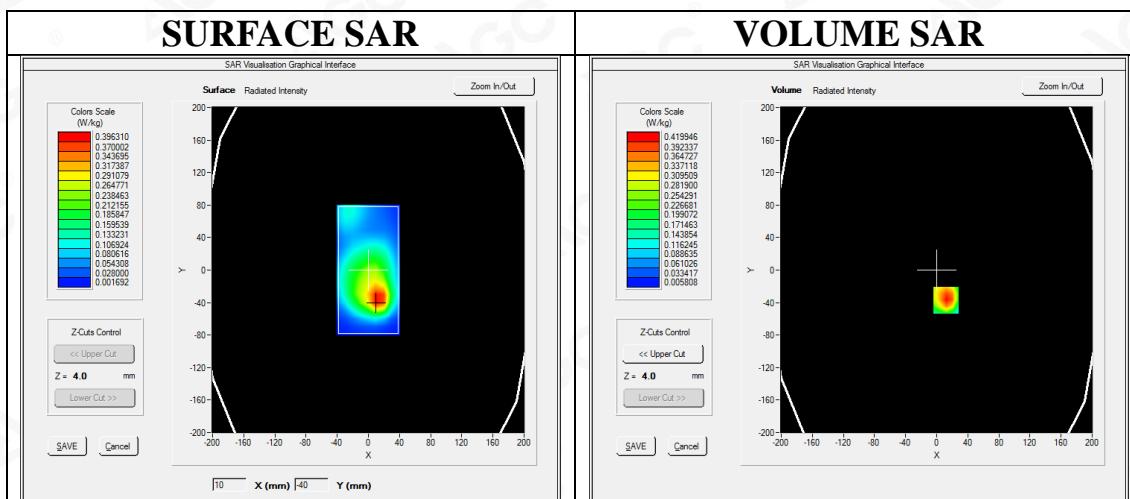
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 4 Mid-Body-back/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/ LTE Band 4 Mid-Body-back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	ELLI
<b>Device Position</b>	Body Back
<b>Band</b>	LTE Band 4
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=12.00, Y=-37.00**

**SAR Peak: 0.67 W/kg**

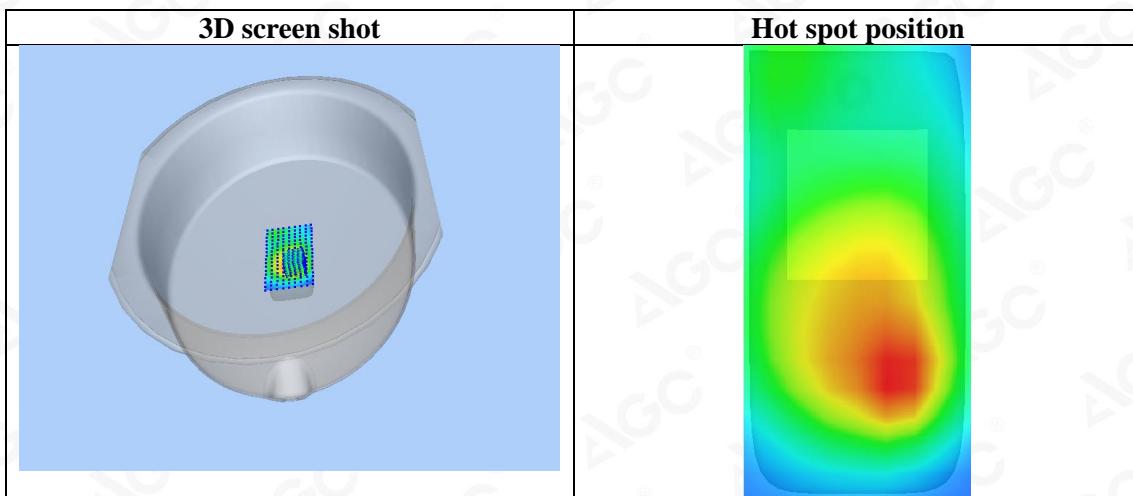
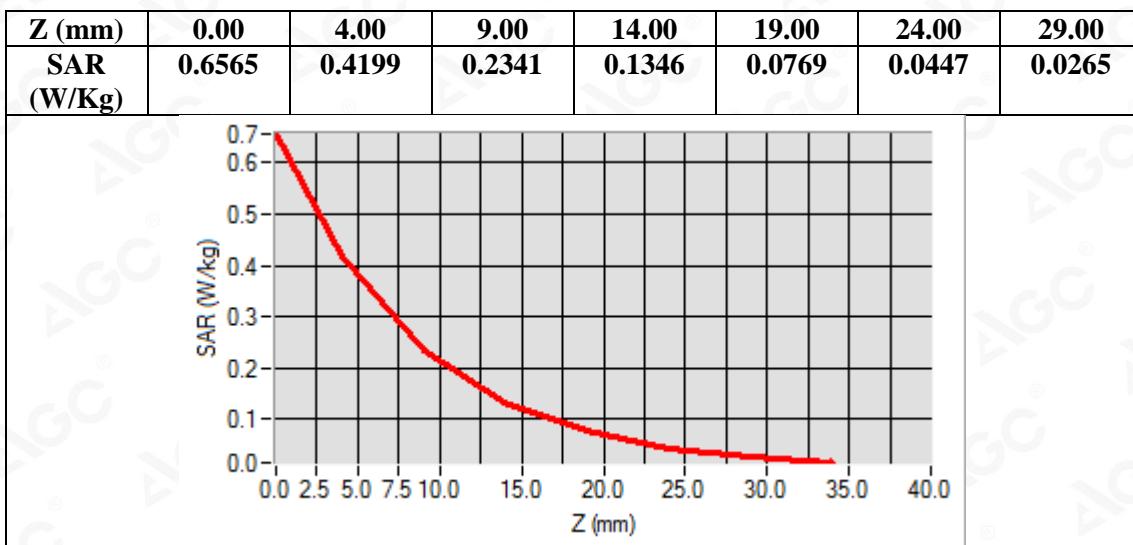
<b>SAR 10g (W/Kg)</b>	0.222177
<b>SAR 1g (W/Kg)</b>	0.404080



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**Test Laboratory: AGC Lab**  
**LTE Band 5 Mid-Touch-Left (1 RB#0)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 07,2019**

Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=5.29  
 Frequency: 836.5 MHz; Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.90 \text{ mho/m}$ ;  $\epsilon_r = 41.02$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
 Phantom section: Left Section  
 Ambient temperature (°C): 20.6, Liquid temperature (°C): 20.3

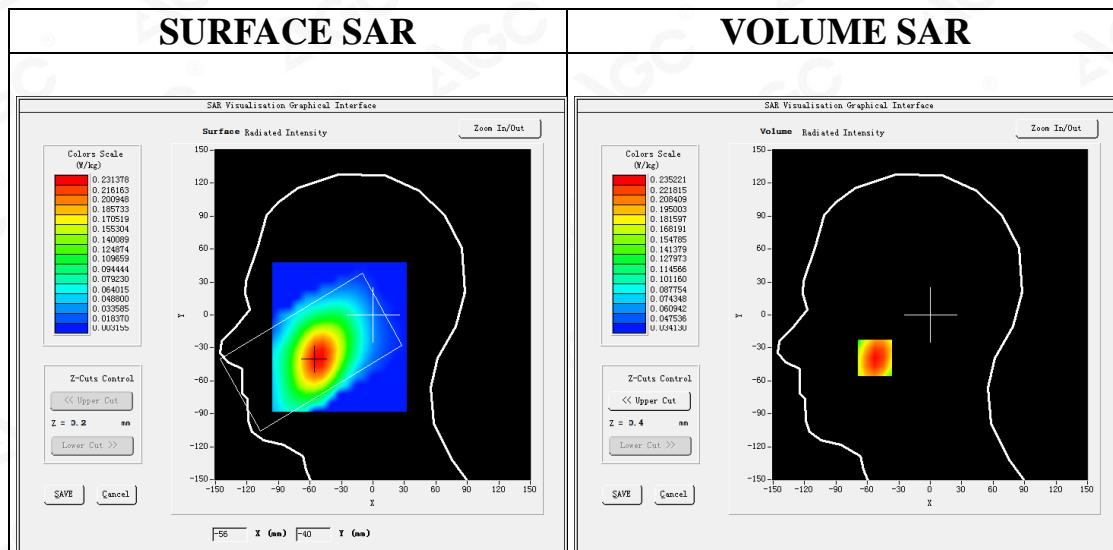
**SATIMO Configuration:**

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Phantom: SAM twin phantom
  - Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 5 Mid- Touch-Left /Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/ LTE Band 5 Mid- Touch-Left /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Left head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 5
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-53.00, Y=-39.00**

**SAR Peak: 0.28 W/kg**

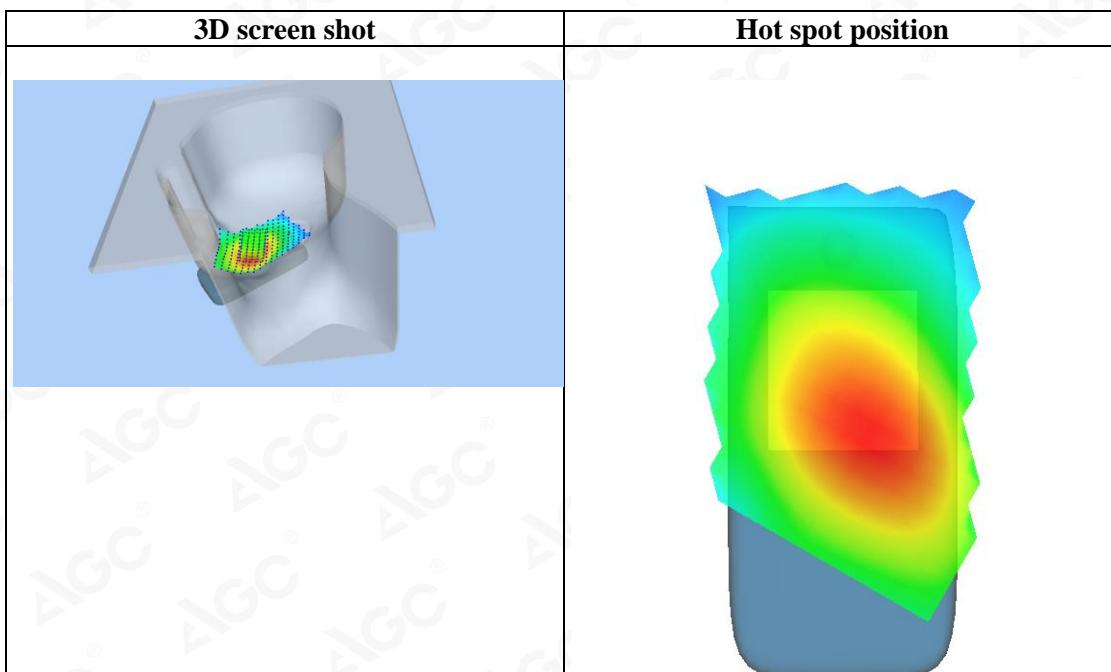
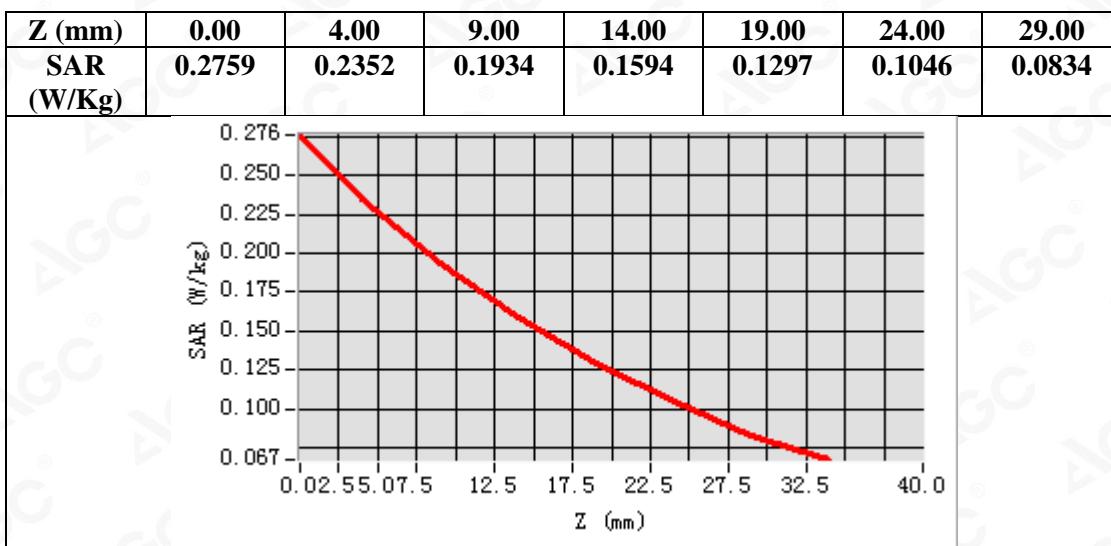
<b>SAR 10g (W/Kg)</b>	0.174187
<b>SAR 1g (W/Kg)</b>	0.228316



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**Test Laboratory: AGC Lab**  
**LTE Band 5 Mid-Body-Back (1 RB#0)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 07,2019**

Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=5.49  
 Frequency:836.5 MHz; Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.99 \text{ mho/m}$ ;  $\epsilon_r = 55.01$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
 Phantom section: Flat Section  
 Ambient temperature (°C): 20.6, Liquid temperature (°C): 20.2

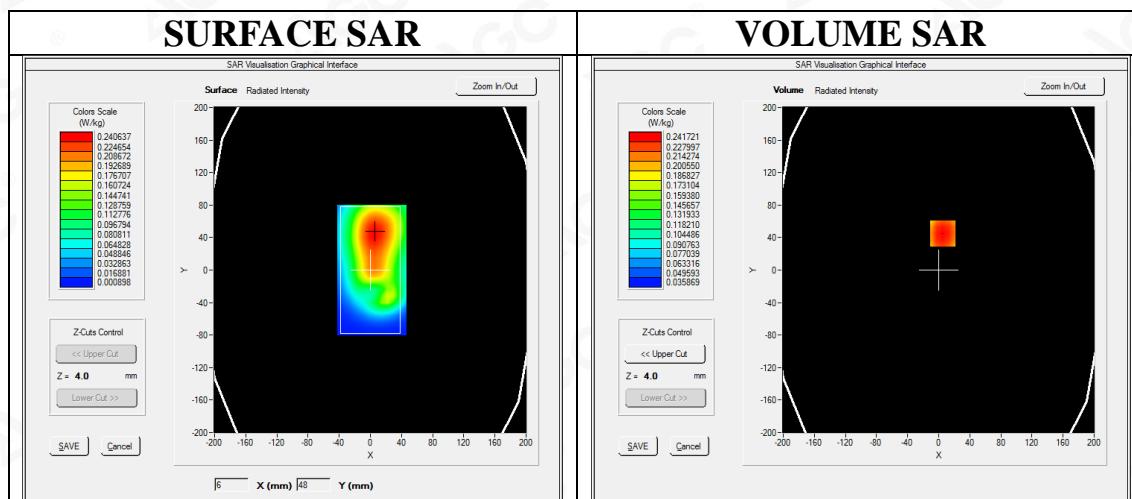
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 5 Mid-Body-back/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/ LTE Band 5 Mid-Body-back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	ELLI
<b>Device Position</b>	Body Back
<b>Band</b>	LTE Band 5
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=5.00, Y=45.00**

**SAR Peak: 0.30 W/kg**

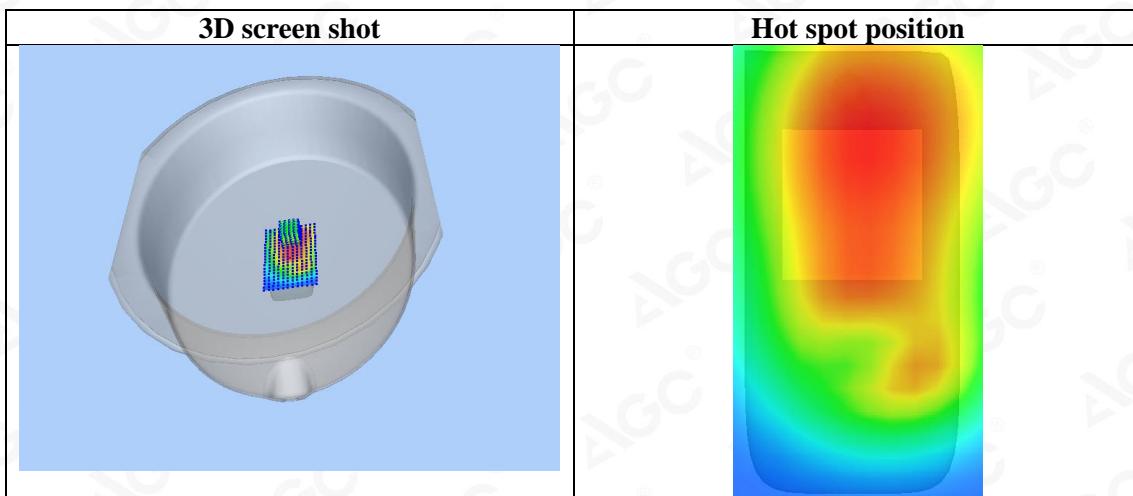
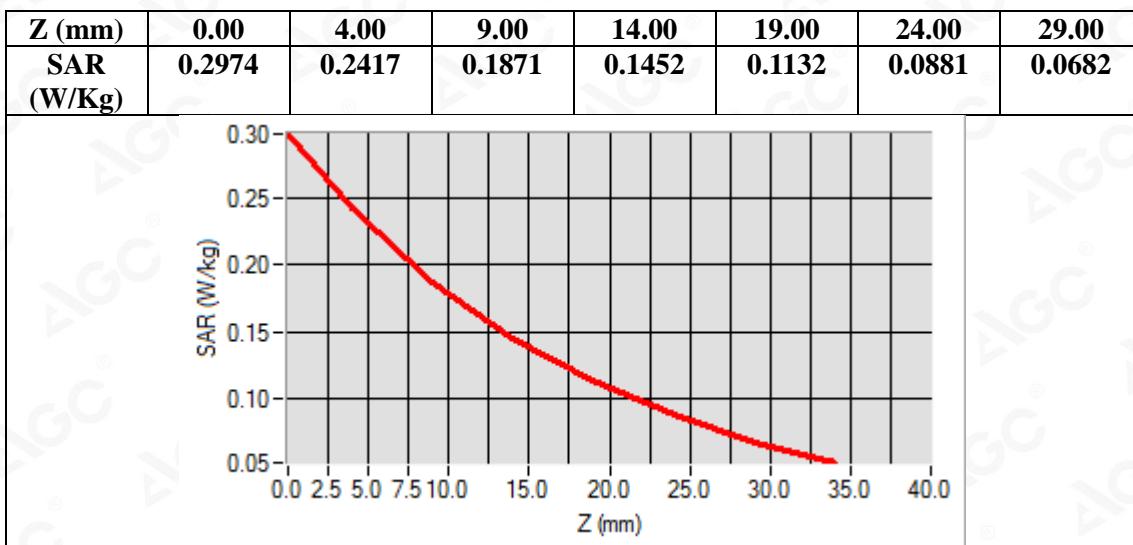
<b>SAR 10g (W/Kg)</b>	0.176092
<b>SAR 1g (W/Kg)</b>	0.234612



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**Test Laboratory: AGC Lab**  
**LTE Band 7 Mid-Touch-Left (1RB#0)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 01,2019**

Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1; Conv.F=4.57  
 Frequency: 2535MHz; Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 39.14$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
 Phantom section: Left Section  
 Ambient temperature (°C): 20.7, Liquid temperature (°C): 20.5

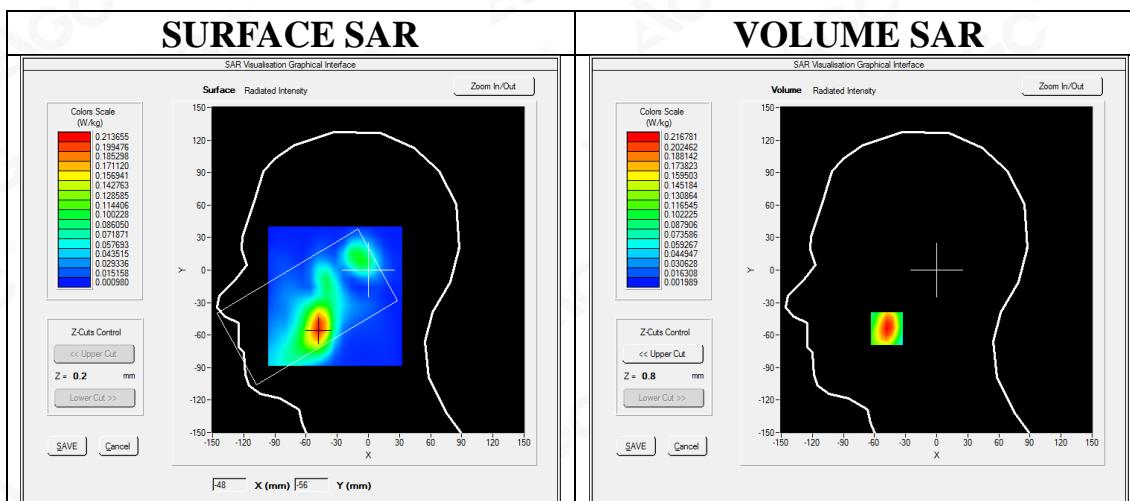
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE BAND 7 Mid-Touch-Left/Area Scan:** Measurement grid: dx=8mm, y=8mm

**Configuration/ LTE BAND 7 Mid-Touch-Left/Zoom Scan:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	Left head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE BAND 7
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-48.00, Y=-54.00**  
**SAR Peak: 0.33 W/kg**

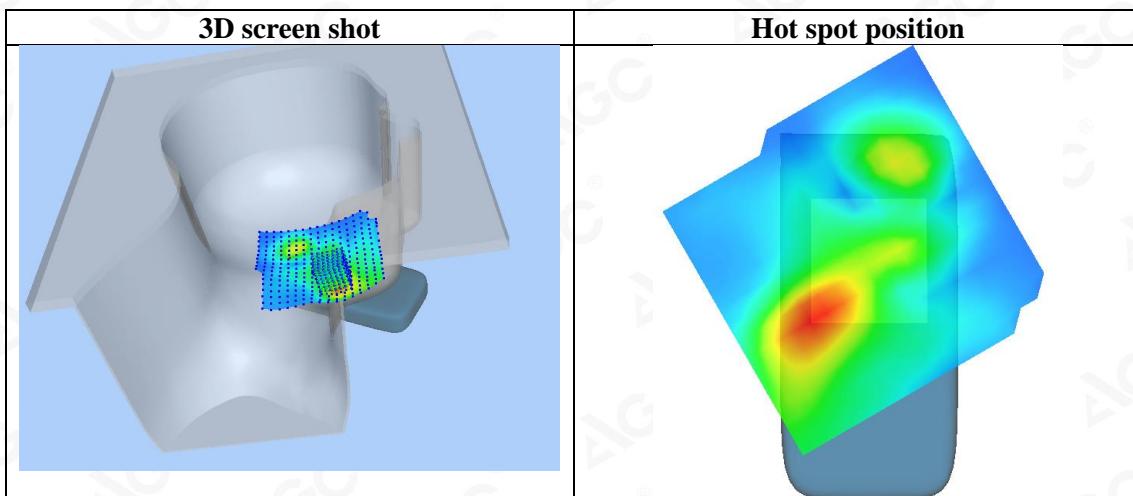
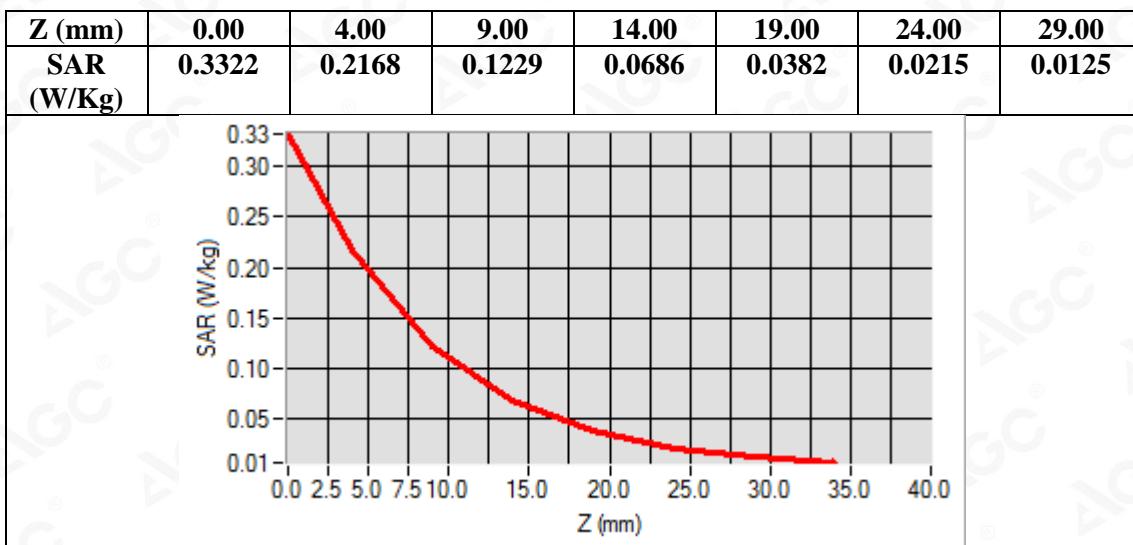
<b>SAR 10g (W/Kg)</b>	0.105079
<b>SAR 1g (W/Kg)</b>	0.200944



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**Test Laboratory: AGC Lab**  
**LTE Band 7 Low-Edge 3 (1RB#0)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 01,2019**

Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1; Conv.F=4.68  
 Frequency: 2510MHz; Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.11$  mho/m;  $\epsilon_r = 53.64$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
 Phantom section: Flat Section  
 Ambient temperature (°C): 20.7, Liquid temperature (°C): 20.4

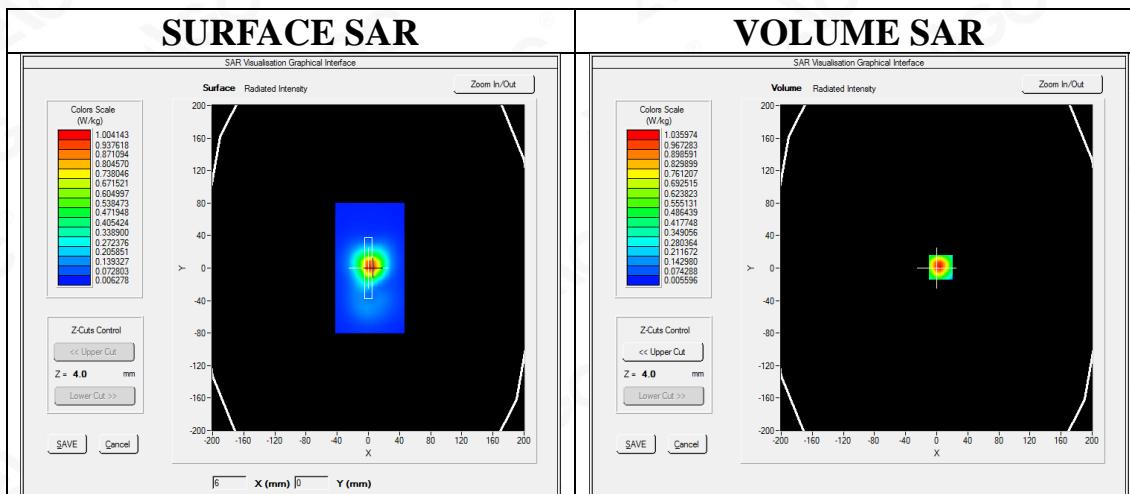
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE BAND 7 Low- Edge 3 /Area Scan:** Measurement grid: dx=10mm, y=10mm

**Configuration/ LTE BAND 7 Low- Edge 3 /Zoom Scan:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	ELLI
<b>Device Position</b>	Edge 3
<b>Band</b>	LTE BAND 7
<b>Channels</b>	Low
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=5.00, Y=1.00**  
**SAR Peak: 1.67 W/kg**

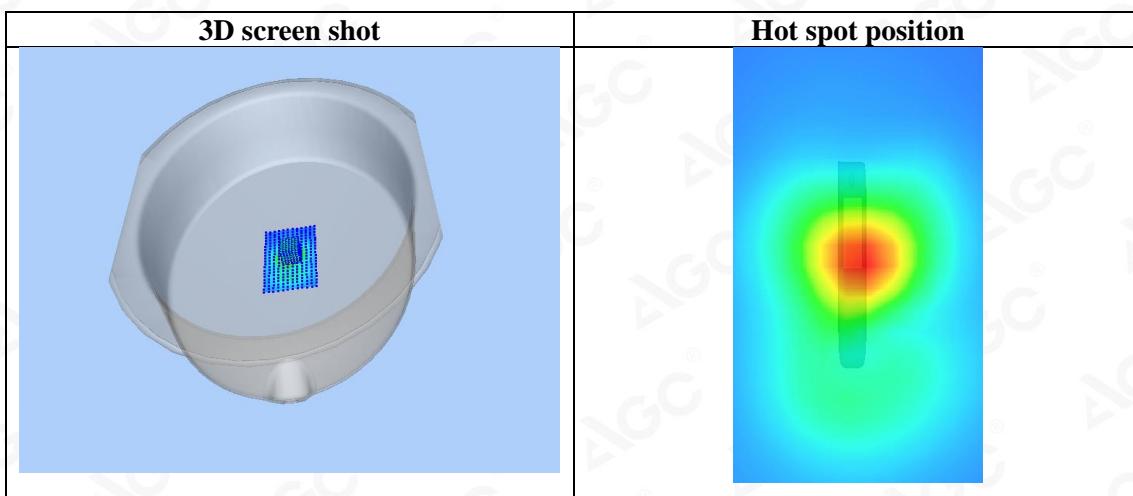
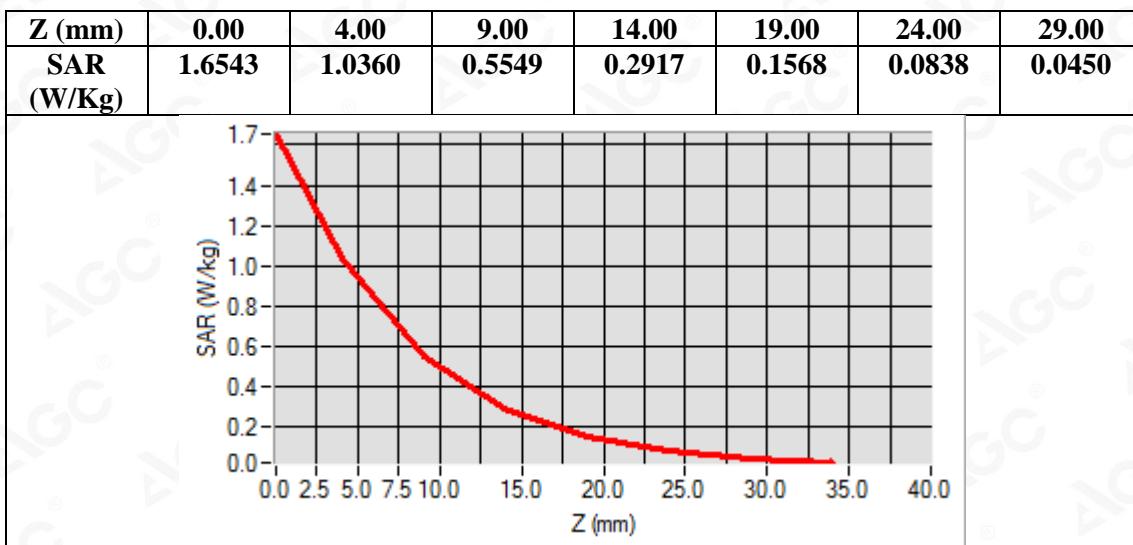
<b>SAR 10g (W/Kg)</b>	0.482784
<b>SAR 1g (W/Kg)</b>	0.967455



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**Test Laboratory: AGC Lab**  
**LTE Band 7 Mid-Edge 3 (1RB#0)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 01,2019**

Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1; Conv.F=4.68  
 Frequency: 2535MHz; Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.12$  mho/m;  $\epsilon_r = 53.28$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
 Phantom section: Flat Section  
 Ambient temperature (°C): 20.7, Liquid temperature (°C): 20.4

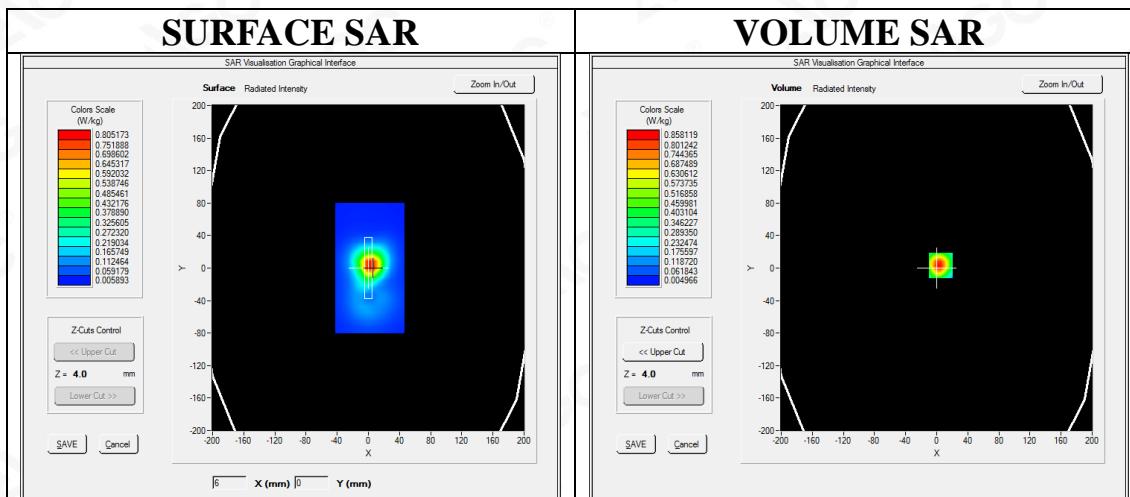
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE BAND 7 Mid- Edge 3 /Area Scan:** Measurement grid: dx=10mm, y=10mm

**Configuration/ LTE BAND 7 Mid- Edge 3 /Zoom Scan:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	ELLI
<b>Device Position</b>	Edge 3
<b>Band</b>	LTE BAND 7
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=5.00, Y=3.00**  
**SAR Peak: 1.37 W/kg**

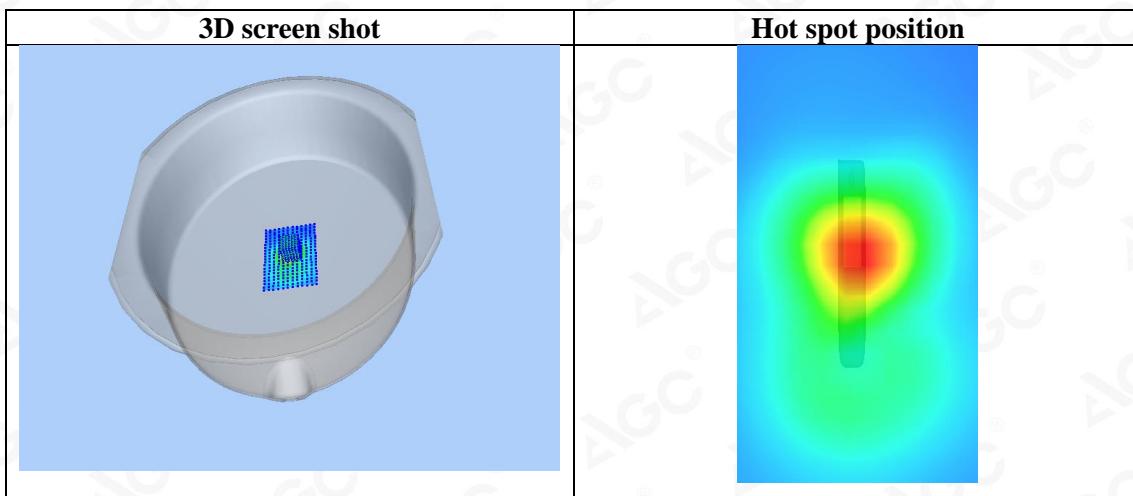
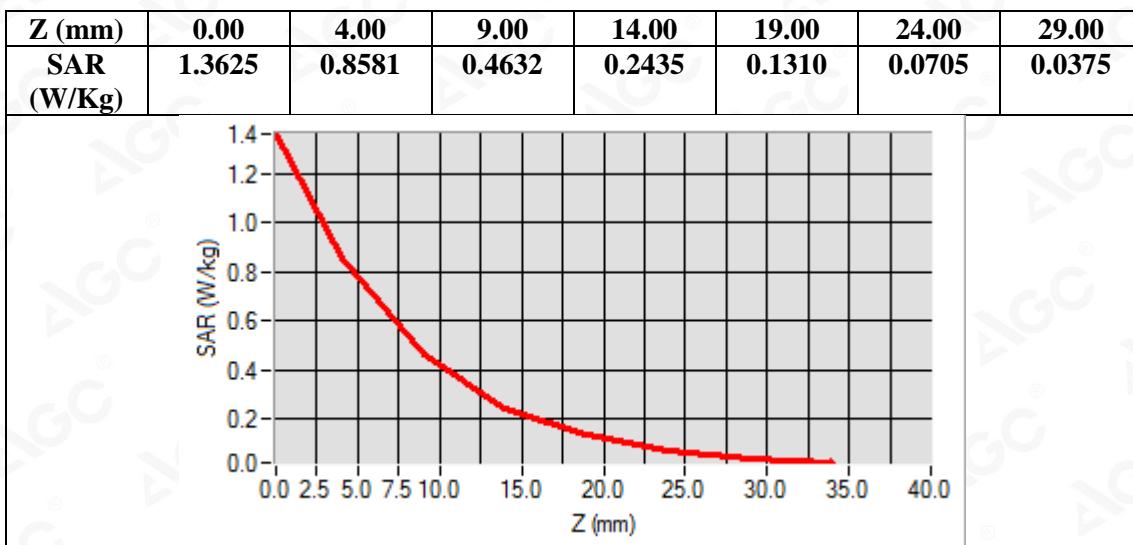
<b>SAR 10g (W/Kg)</b>	0.403719
<b>SAR 1g (W/Kg)</b>	0.801221



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**Test Laboratory: AGC Lab**  
**LTE Band 12 Mid-Touch-Left (1 RB#0)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 02,2019**

Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=5.20  
 Frequency: 707.5 MHz; Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.87$  mho/m;  $\epsilon_r = 41.14$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
 Phantom section: Left Section  
 Ambient temperature (°C): 21.1, Liquid temperature (°C): 20.8

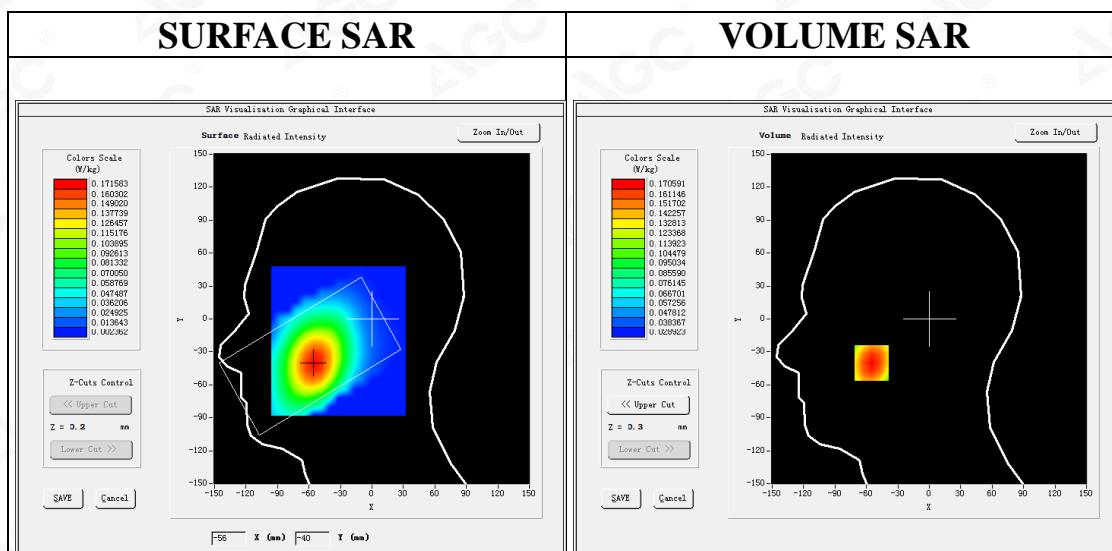
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 12 Mid- Touch-Left /Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/ LTE Band 12 Mid- Touch-Left /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Left head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 12
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-55.00, Y=-40.00**

**SAR Peak: 0.20 W/kg**

<b>SAR 10g (W/Kg)</b>	0.131017
<b>SAR 1g (W/Kg)</b>	0.169088



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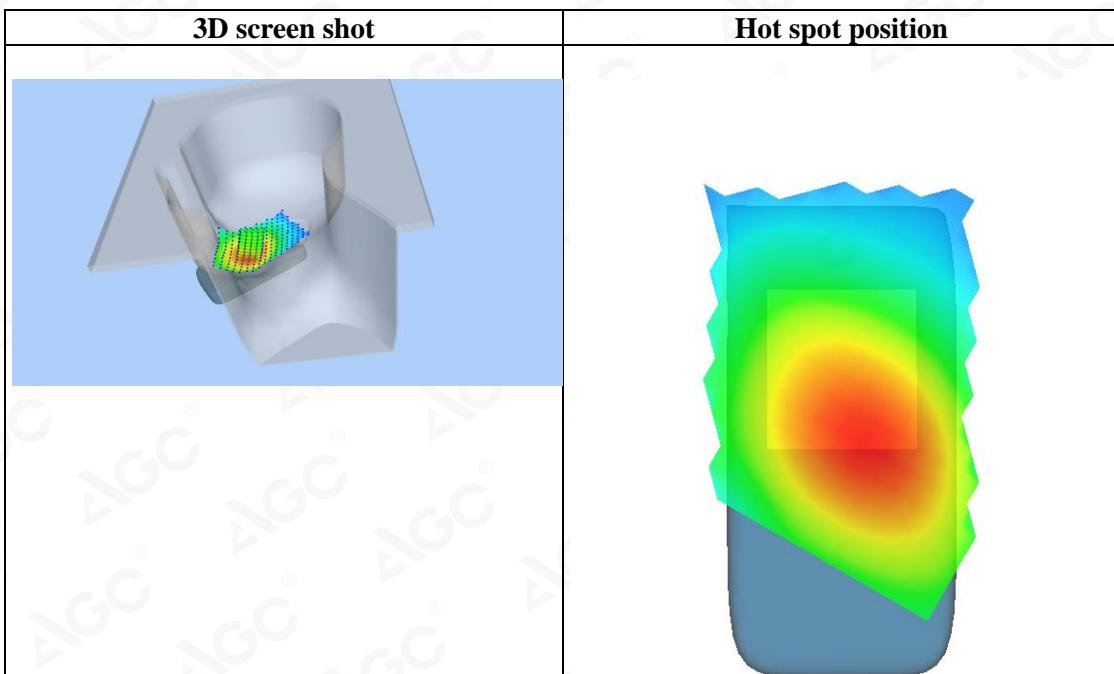
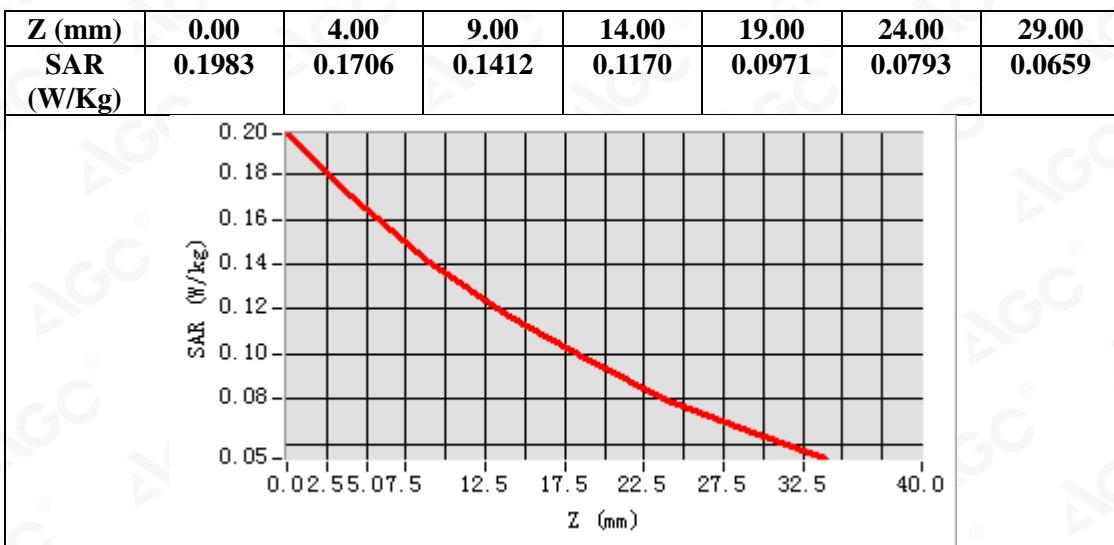
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**Test Laboratory: AGC Lab**  
**LTE Band 12 Mid-Body-Back (1 RB#0)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 02,2019**

Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=5.40;  
 Frequency: 707.5 MHz; Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.39$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
 Phantom section: Flat Section  
 Ambient temperature (°C): 21.1, Liquid temperature (°C): 20.9

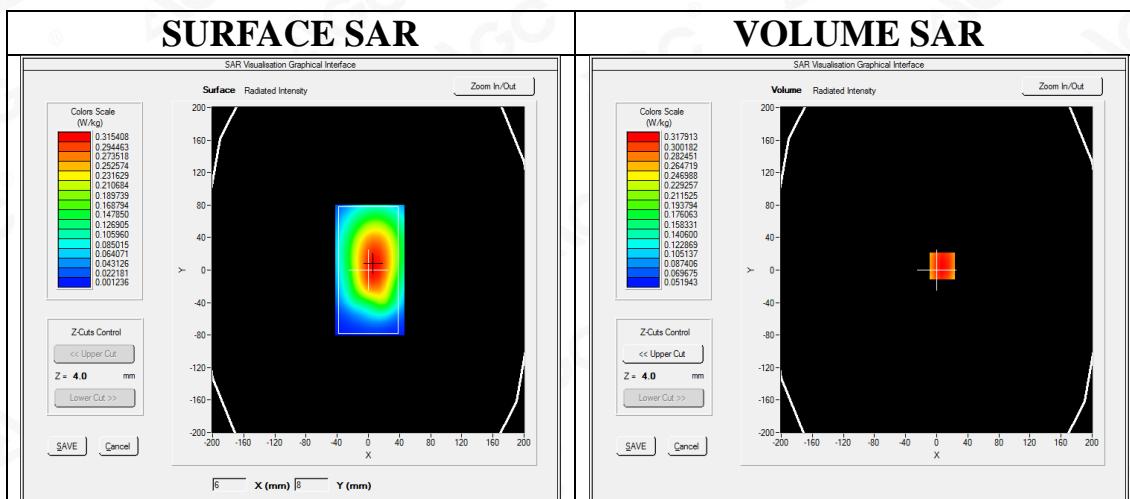
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 12 Mid-Body-back/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/ LTE Band 12 Mid-Body-back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	ELLI
<b>Device Position</b>	Body Back
<b>Band</b>	LTE Band 12
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=7.00, Y=5.00**

**SAR Peak: 0.37 W/kg**

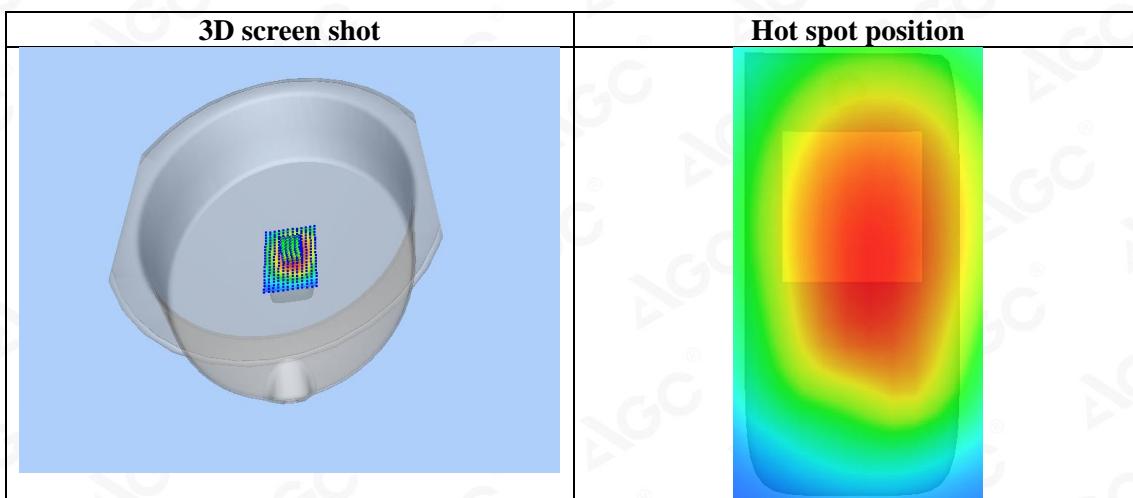
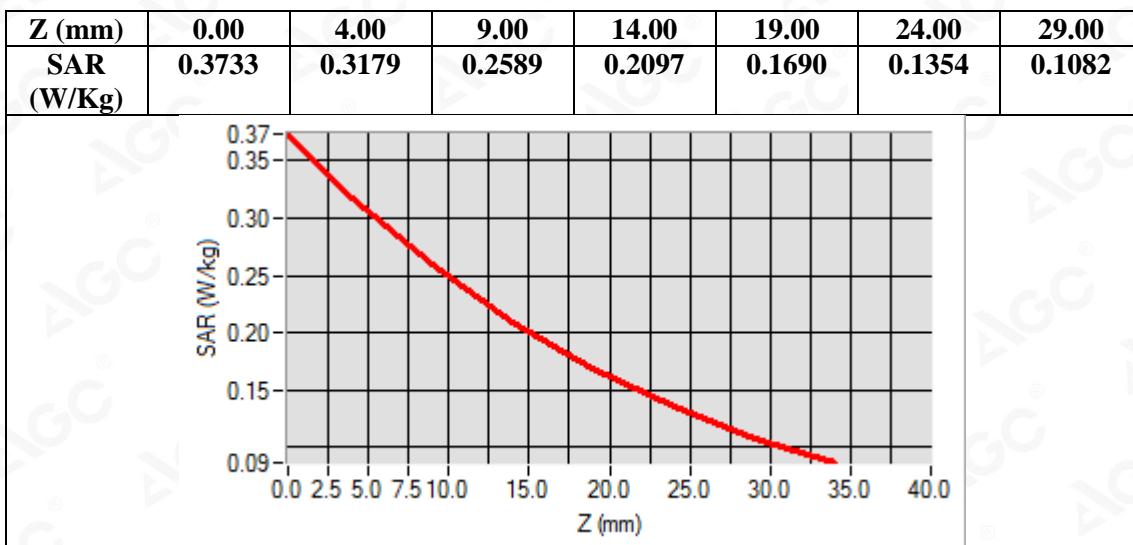
<b>SAR 10g (W/Kg)</b>	0.252361
<b>SAR 1g (W/Kg)</b>	0.327303



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**Test Laboratory: AGC Lab**  
**LTE Band 17 Mid-Touch-Left (1 RB#0)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 02,2019**

Communication System: LTE; Communication System Band: LTE Band 17; Duty Cycle:1:1; Conv.F=5.20  
 Frequency: 710 MHz; Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.89 \text{ mho/m}$ ;  $\epsilon_r = 40.69$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
 Phantom section: Left Section  
 Ambient temperature (°C): 21.1, Liquid temperature (°C): 20.8

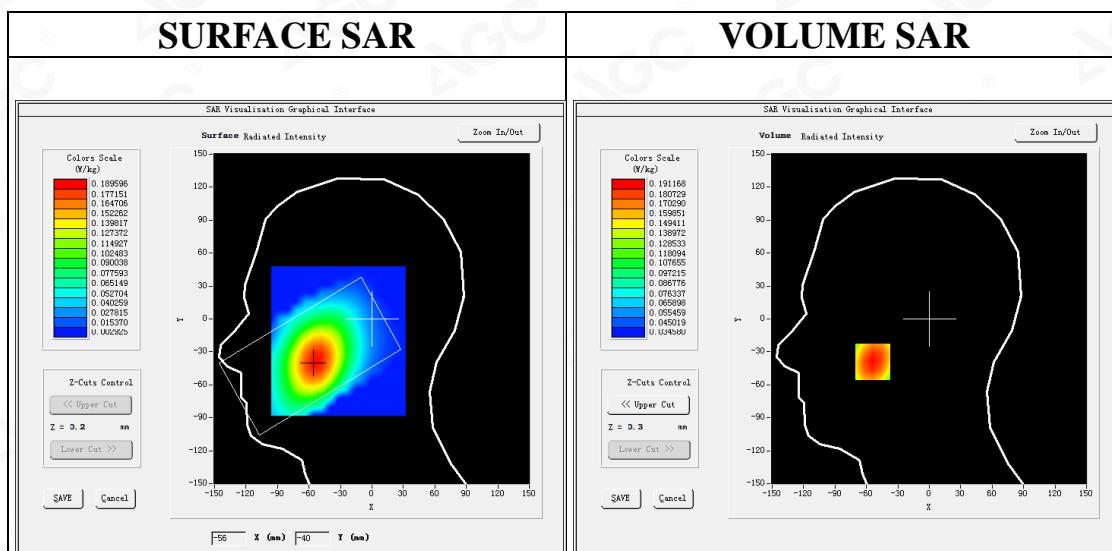
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 17 Mid- Touch-Left /Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/ LTE Band 17 Mid- Touch-Left /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Left head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 17
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-54.00, Y=-39.00**

**SAR Peak: 0.22 W/kg**

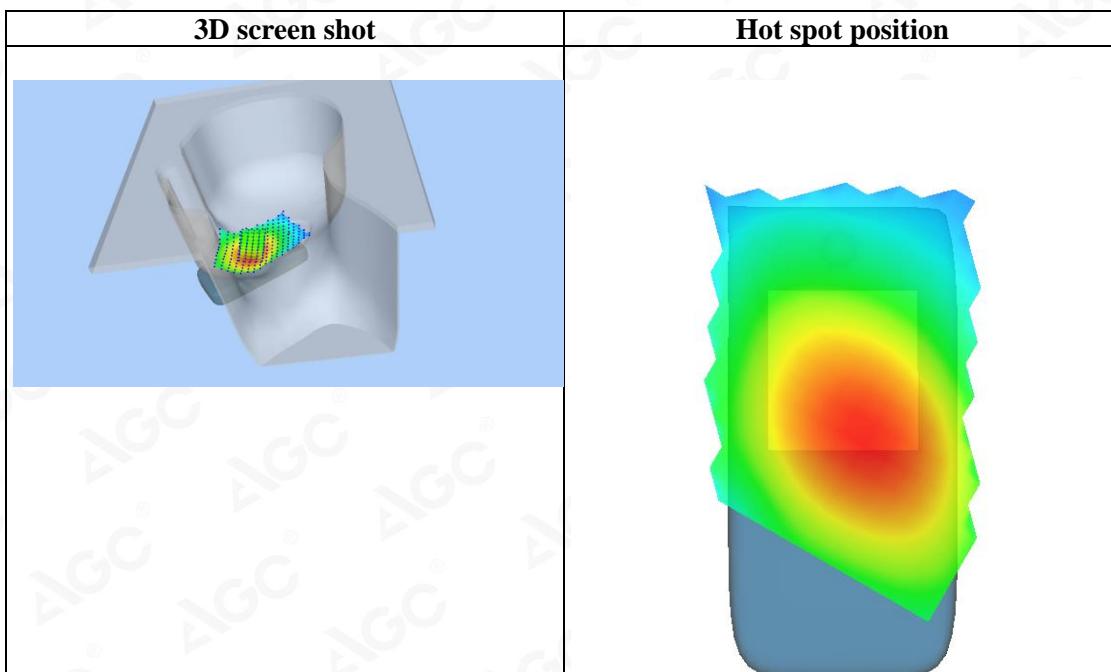
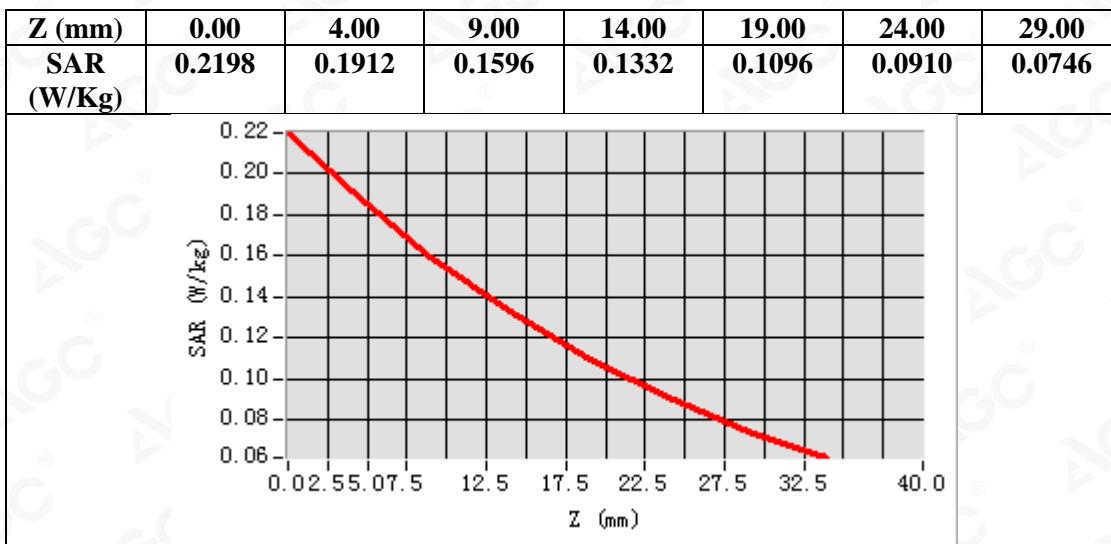
<b>SAR 10g (W/Kg)</b>	0.152967
<b>SAR 1g (W/Kg)</b>	0.195719



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**Test Laboratory: AGC Lab**  
**LTE Band 17 Mid-Body-Back (1 RB#0)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 02,2019**

Communication System: LTE; Communication System Band: LTE Band 17; Duty Cycle:1:1; Conv.F=5.40;  
 Frequency: 710 MHz; Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.94 \text{ mho/m}$ ;  $\epsilon_r = 55.71$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
 Phantom section: Flat Section  
 Ambient temperature (°C): 21.1, Liquid temperature (°C): 20.9

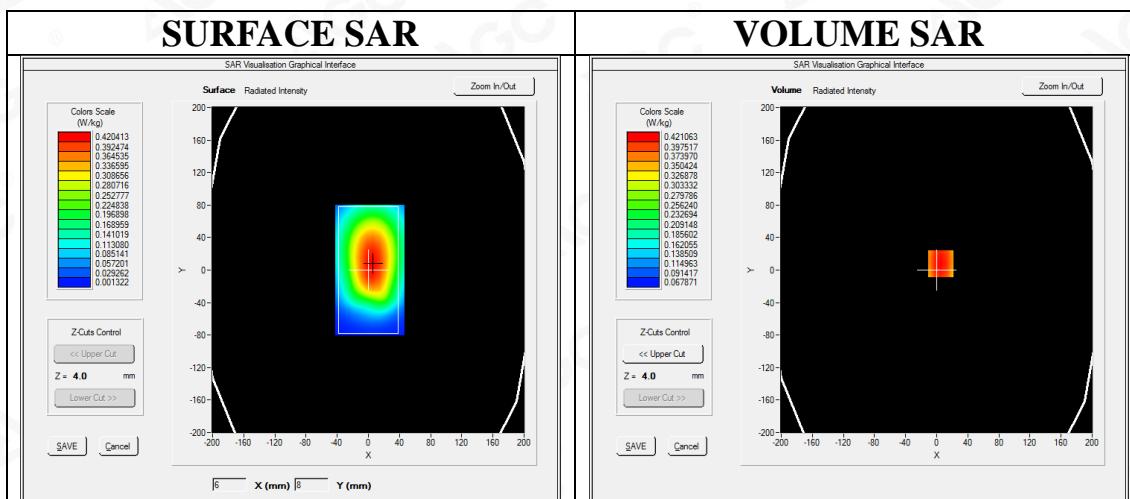
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 17 Mid-Body-back/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/ LTE Band 17 Mid-Body-back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	ELLI
<b>Device Position</b>	Body Back
<b>Band</b>	LTE Band 17
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=5.00, Y=8.00**

**SAR Peak: 0.50 W/kg**

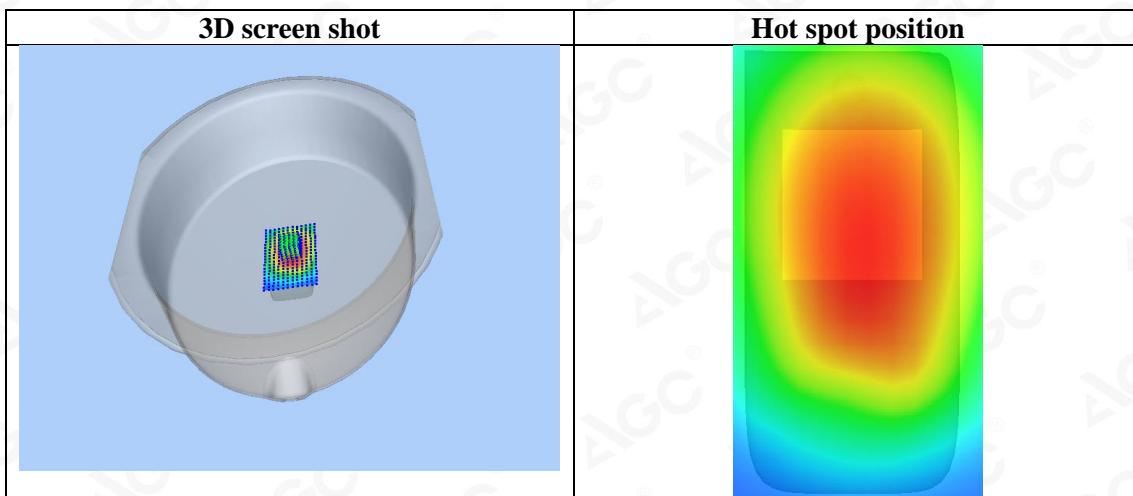
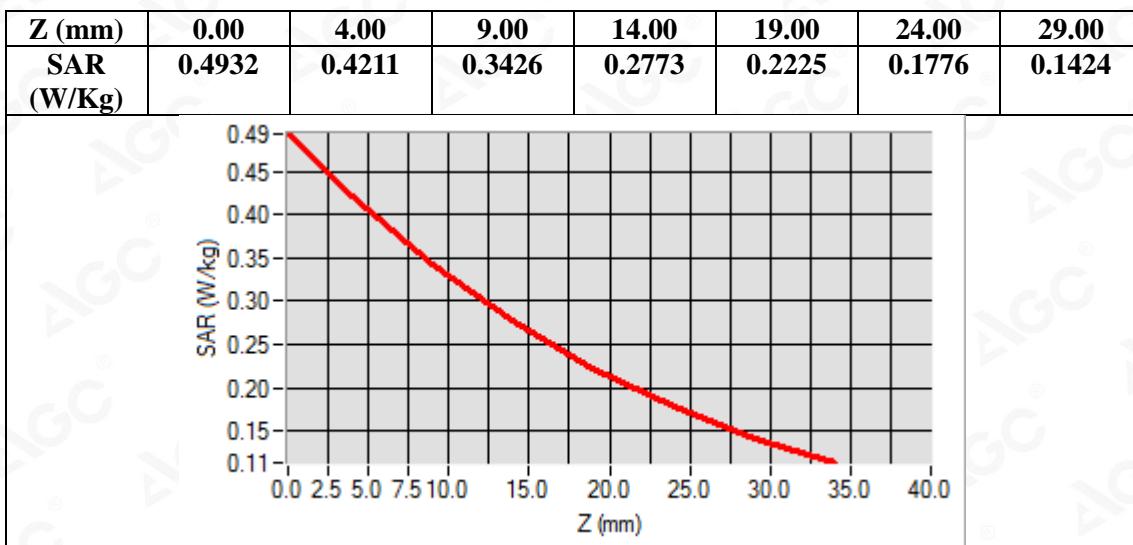
<b>SAR 10g (W/Kg)</b>	0.333509
<b>SAR 1g (W/Kg)</b>	0.433010



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**2.4G WIFI MODE**
**Test Laboratory: AGC Lab**
**802.11b Mid-Touch-Left**
**DUT: Smart Phone; Type: X19**
**Date: Aug. 08,2019**

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=4.90;  
 Frequency: 2437 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.79$  mho/m;  $\epsilon_r = 39.81$ ;  $\rho = 1000$  kg/m<sup>3</sup>;  
 Phantom section: Left Section  
 Ambient temperature (°C): 21.1, Liquid temperature (°C): 20.8

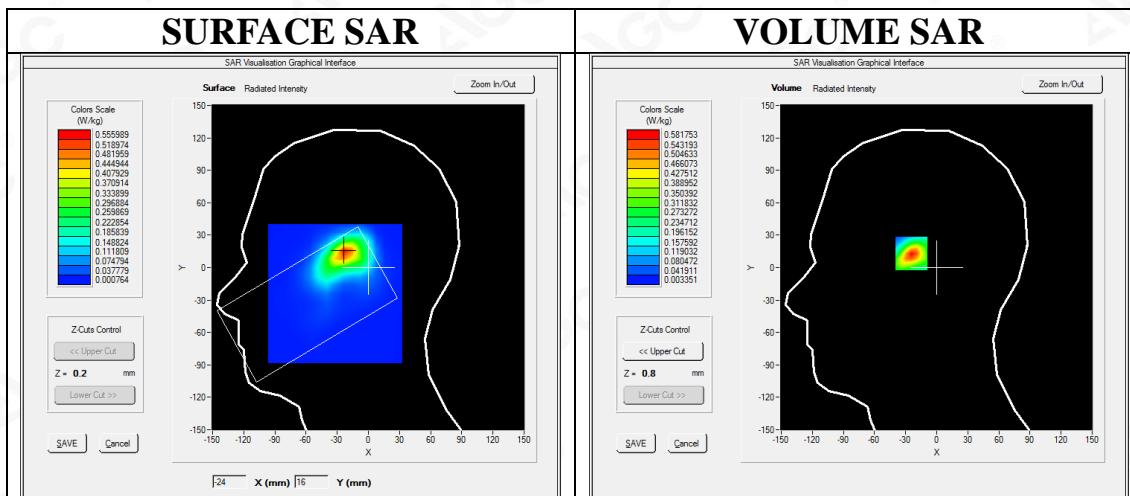
**SATIMO Configuration:**

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/802.11b Mid- Touch-Left/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/802.11b Mid- Touch-Left/Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	Left head
<b>Device Position</b>	Cheek
<b>Band</b>	2450MHz
<b>Channels</b>	Middle
<b>Signal</b>	Crest factor: 1.0


**Maximum location: X=-23.00, Y=15.00**
**SAR Peak: 0.89 W/kg**

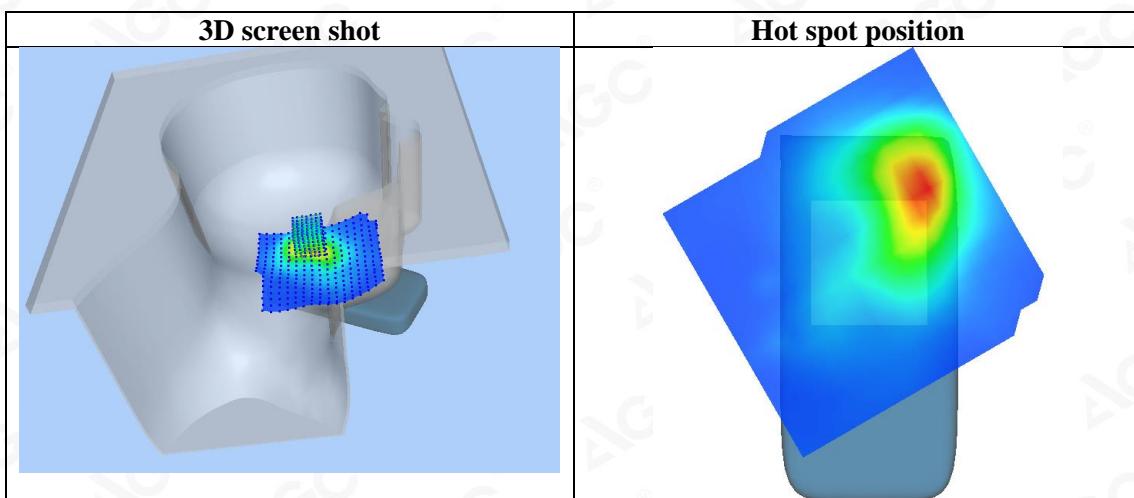
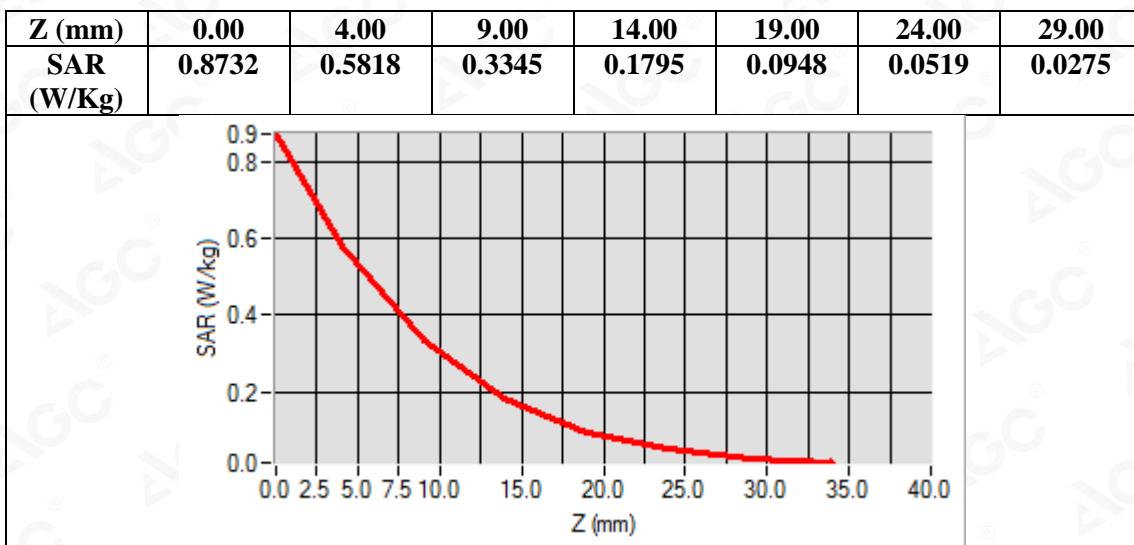
<b>SAR 10g (W/Kg)</b>	0.251744
<b>SAR 1g (W/Kg)</b>	0.516273



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**Test Laboratory: AGC Lab**  
**802.11b Mid-Body-Worn- Back**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 08,2019**

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=5.04;  
 Frequency: 2437 MHz; Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.91 \text{ mho/m}$ ;  $\epsilon_r = 52.34$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
 Phantom section: Flat Section  
 Ambient temperature ( $^{\circ}\text{C}$ ): 21.1, Liquid temperature ( $^{\circ}\text{C}$ ): 20.7

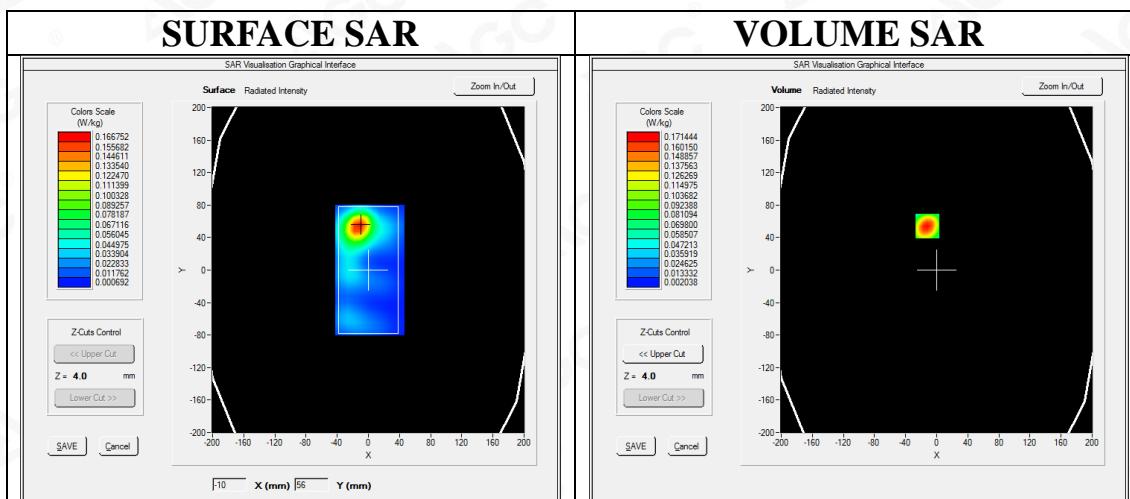
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/802.11b Mid- Body- Back /Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/802.11b Mid- Body- Back /Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	ELLI
<b>Device Position</b>	Body Back
<b>Band</b>	2450MHz
<b>Channels</b>	Middle
<b>Signal</b>	Crest factor: 1.0



**Maximum location: X=-12.00, Y=54.00**  
**SAR Peak: 0.27 W/kg**

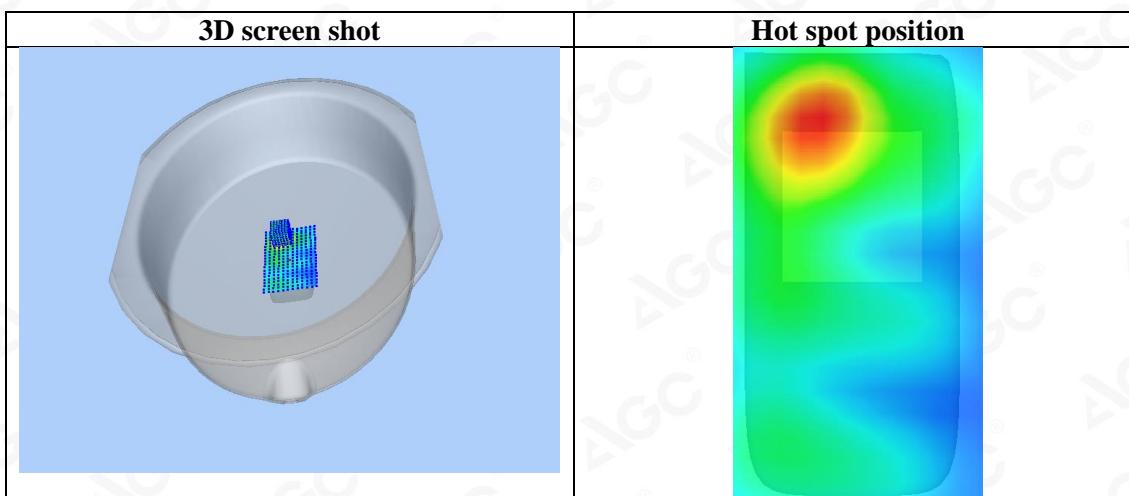
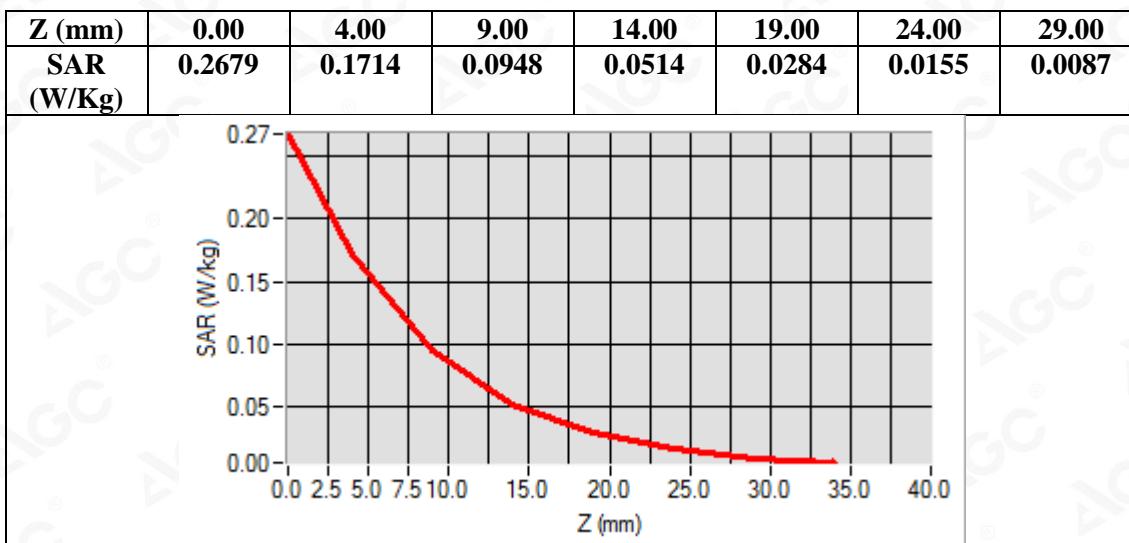
<b>SAR 10g (W/Kg)</b>	0.086120
<b>SAR 1g (W/Kg)</b>	0.160241



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**5.2GHz 802.11a20**

**Test Laboratory: AGC Lab**  
**802.11a20 CH44 Mid-Tilt-Left**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 28,2019**

Communication System: Wi-Fi; Communication System Band: 802.11a20; Duty Cycle: 1:1; Conv.F=2.46;  
 Frequency: 5220MHz; Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.62$  mho/m;  $\epsilon_r = 35.21$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
 Phantom section: Flat Section  
 Ambient temperature (°C): 20.6, Liquid temperature (°C): 20.3

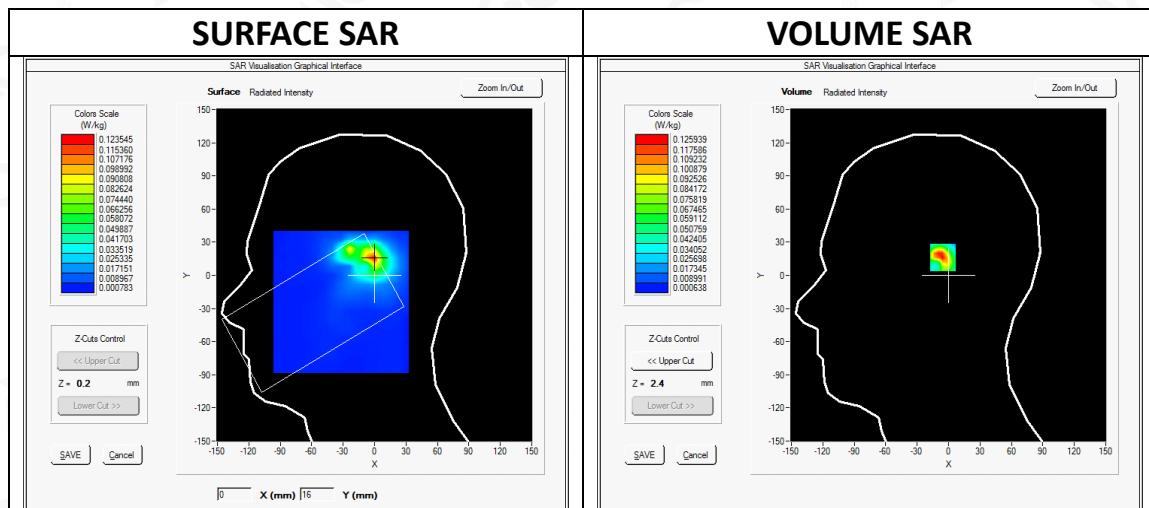
**SATIMO Configuration:**

- Probe: SSE2; Calibrated: Mar. 25,2019; Serial No.: SN 45/15 EPGO281
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/802.11a20 CH44 Mid- Tilt-Left /Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/802.11a20 CH44 Mid- Tilt-Left /Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	Left head
<b>Device Position</b>	Tilt
<b>Band</b>	5200MHz
<b>Channels</b>	Middle
<b>Signal</b>	Crest factor: 1.0


**Maximum location: X=-1.00, Y=16.00**
**SAR Peak: 0.33 W/kg**

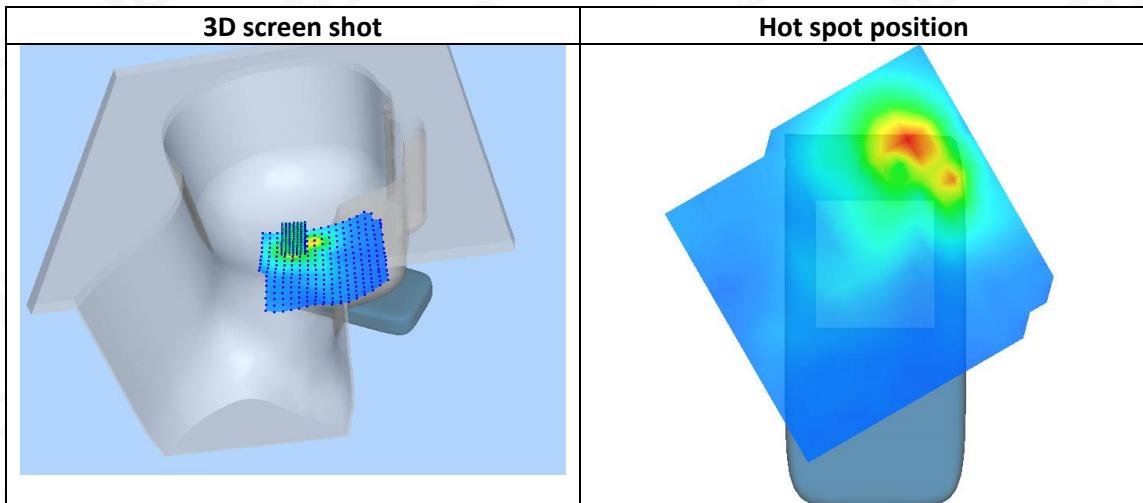
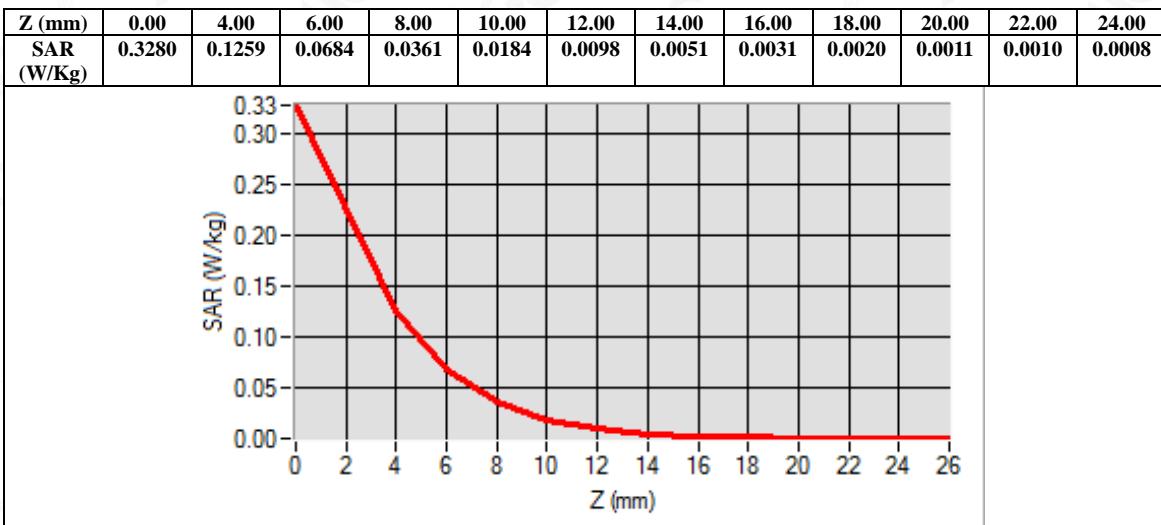
<b>SAR 10g (W/Kg)</b>	0.038757
<b>SAR 1g (W/Kg)</b>	0.117848



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**5.2GHz 802.11a20**
**Test Laboratory: AGC Lab**
**802.11ac20 CH44-Edge1**
**DUT: Smart Phone; Type: X19**
**Date: Aug. 28,2019**

Communication System: Wi-Fi; Communication System Band: 802.11a20; Duty Cycle: 1:1; Conv.F=2.52;  
 Frequency: 5220MHz; Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.33$  mho/m;  $\epsilon_r = 48.74$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Flat Section

Ambient temperature (°C): 20.6, Liquid temperature (°C): 20.4

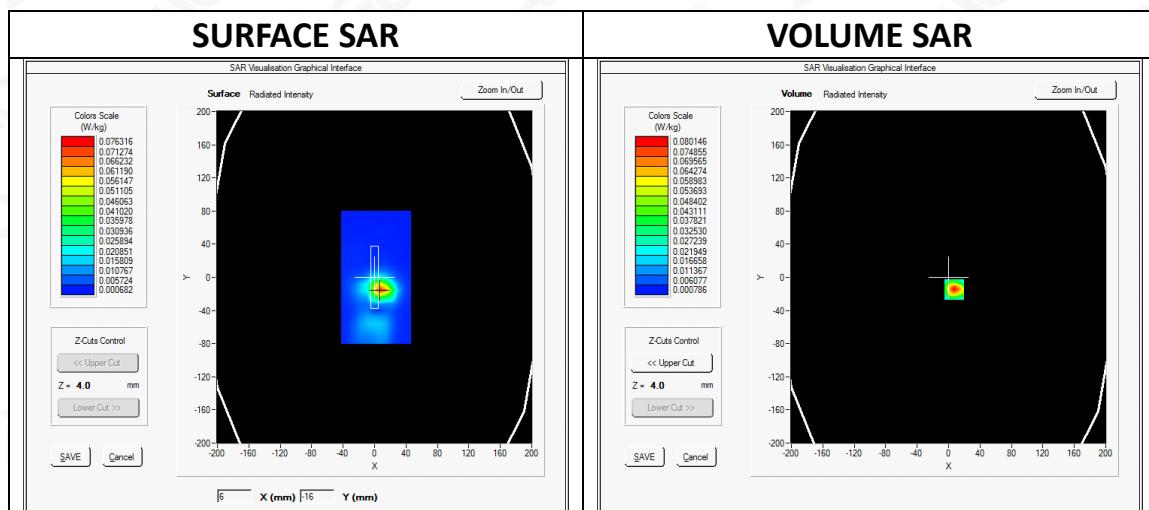
SATIMO Configuration:

- Probe: SSE2; Calibrated: Mar. 25,2019; Serial No.: SN 45/15 EPGO281
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/802.11a20 CH44- Edge1 /Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/802.11a20 CH44- Edge1 /Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	ELLI
<b>Device Position</b>	Edge1
<b>Band</b>	5200MHz
<b>Channels</b>	CH44
<b>Signal</b>	Crest factor: 1.0


**Maximum location: X=7.00, Y=-15.00**
**SAR Peak: 0.20 W/kg**

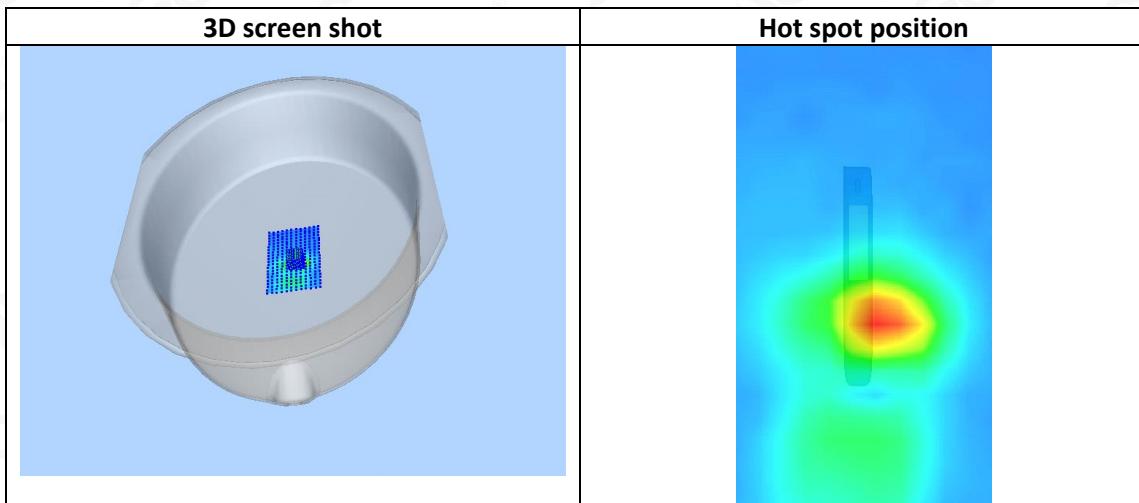
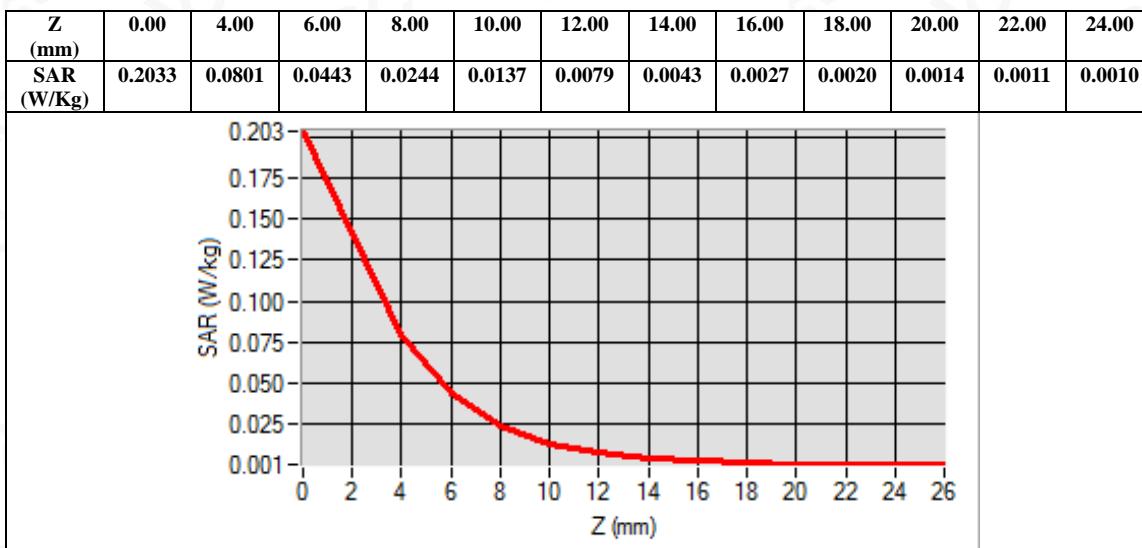
<b>SAR 10g (W/Kg)</b>	0.027092
<b>SAR 1g (W/Kg)</b>	0.075989



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**Repeat SAR**

**Test Laboratory: AGC Lab**  
**LTE Band 7 Low-Edge 3 (1RB#0)**  
**DUT: Smart Phone; Type: X19**

**Date: Aug. 01,2019**

Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1; Conv.F=4.68

Frequency: 2510MHz; Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.11$  mho/m;  $\epsilon_r = 53.64$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section

Ambient temperature (°C): 20.7, Liquid temperature (°C): 20.4

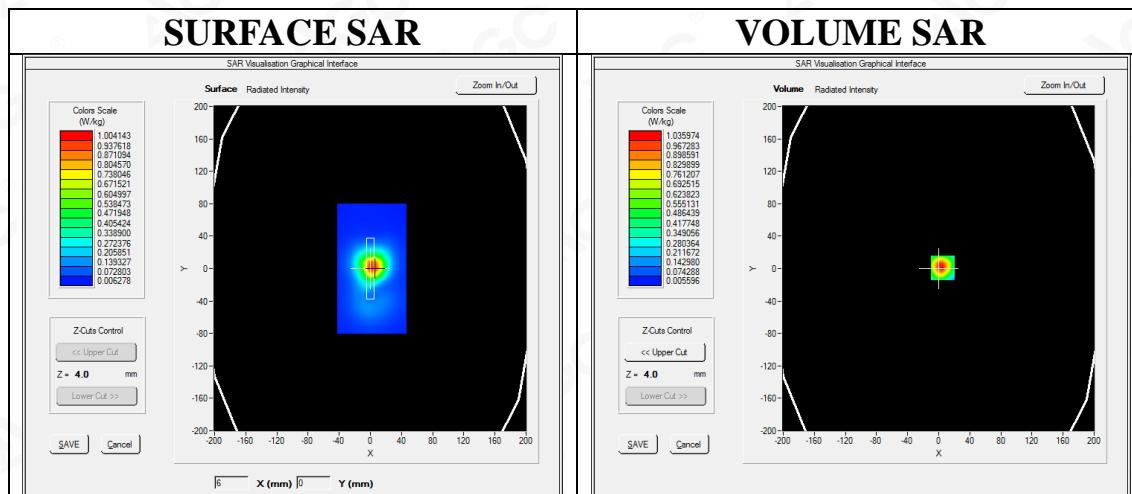
SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE BAND 7 Low- Edge 3 /Area Scan:** Measurement grid: dx=10mm, y=10mm

**Configuration/ LTE BAND 7 Low- Edge 3 /Zoom Scan:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	ELLI
<b>Device Position</b>	Edge 3
<b>Band</b>	LTE BAND 7
<b>Channels</b>	Low
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=5.00, Y=1.00**  
**SAR Peak: 1.66 W/kg**

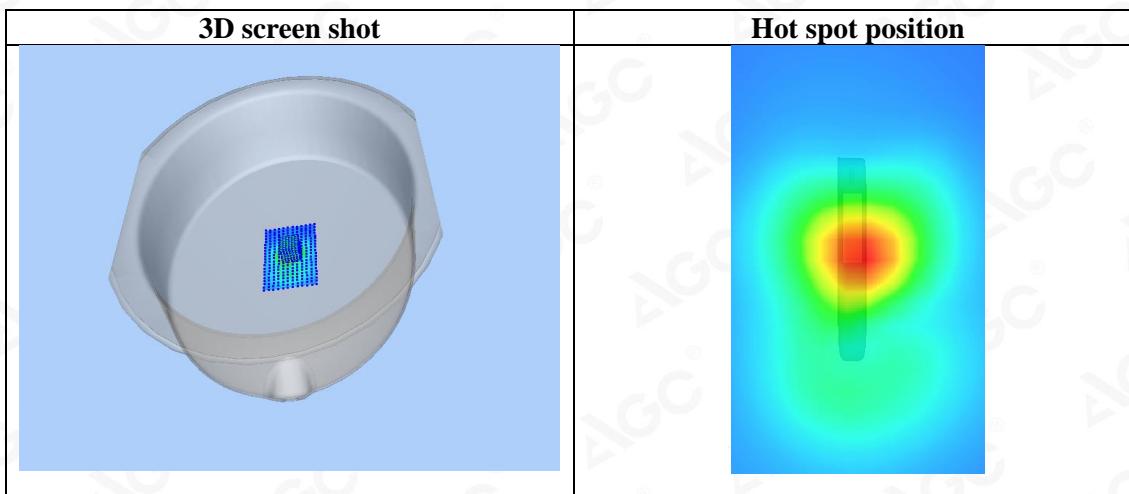
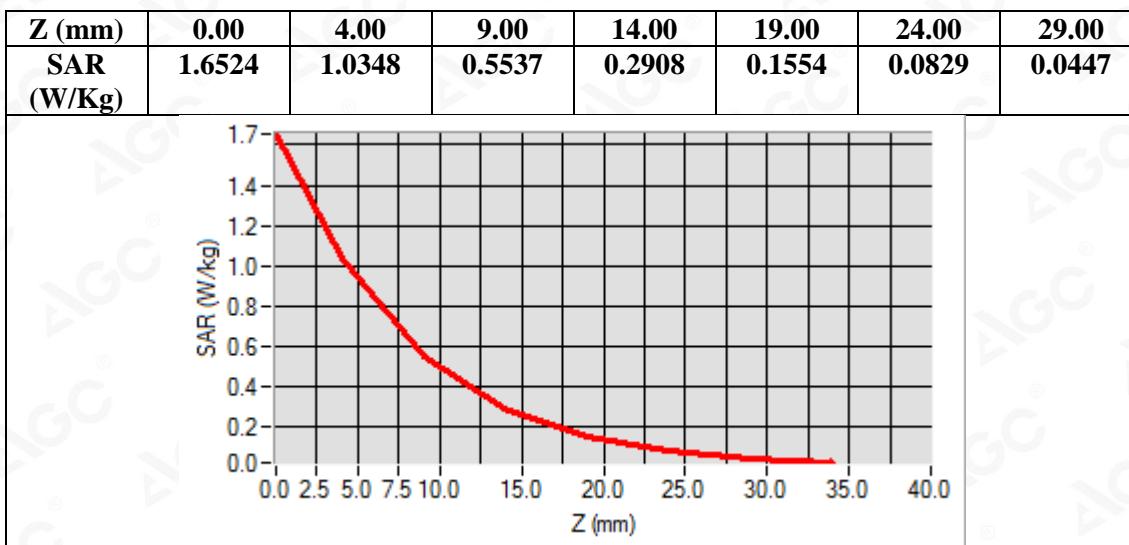
<b>SAR 10g (W/Kg)</b>	0.481379
<b>SAR 1g (W/Kg)</b>	0.966981



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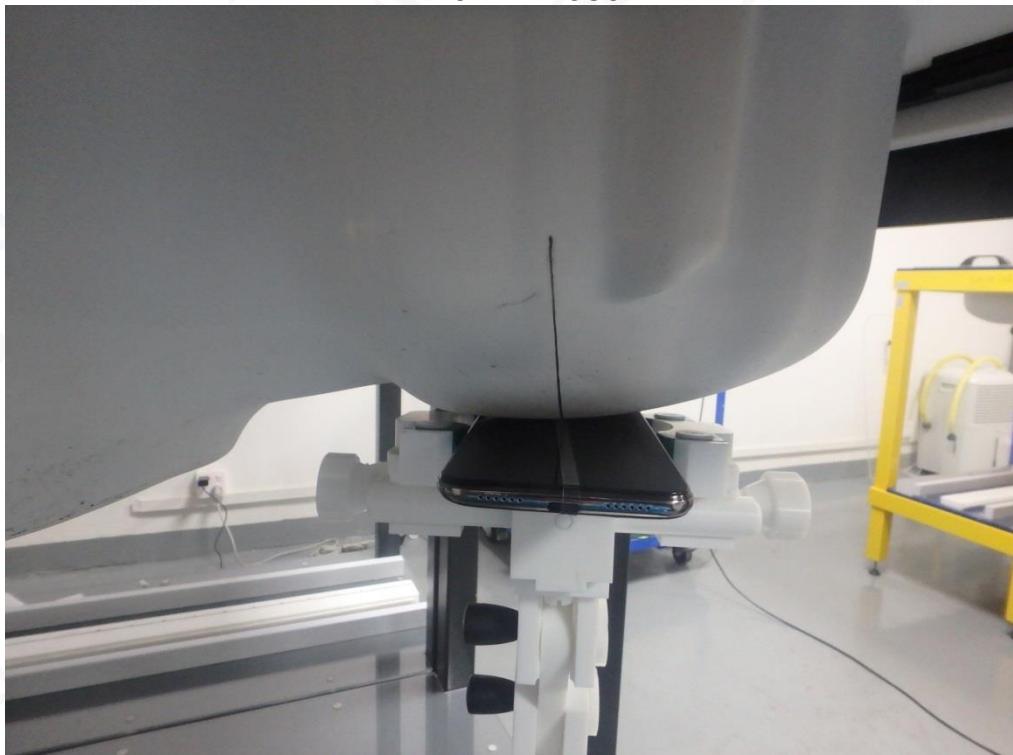
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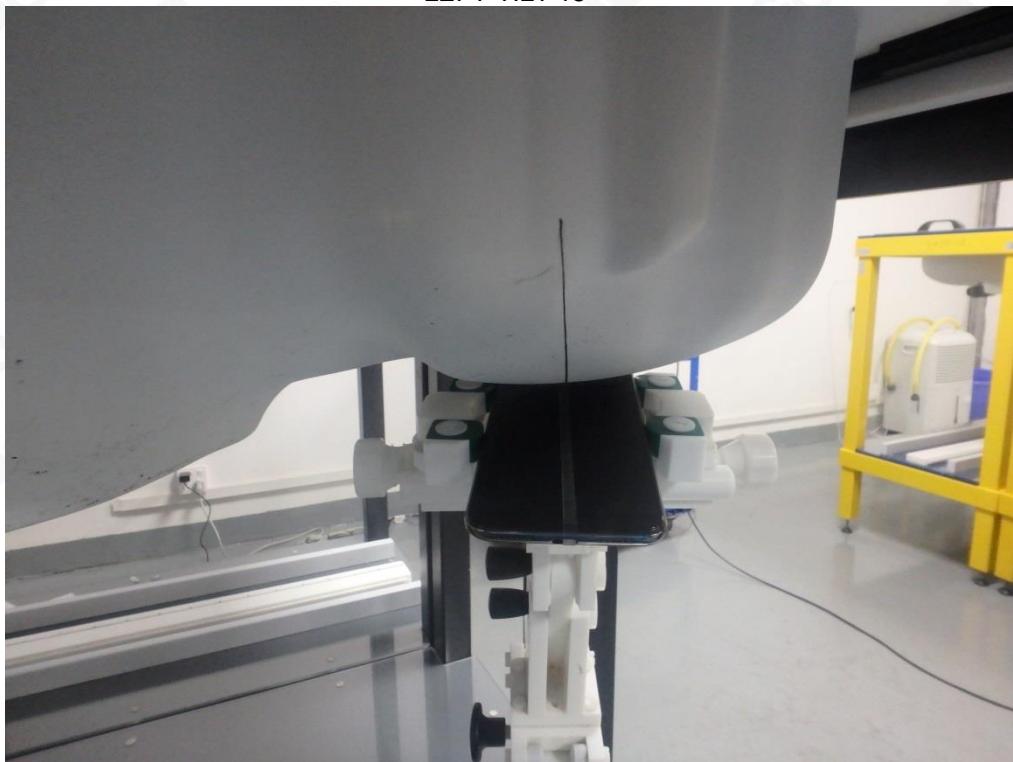
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## APPENDIX C. TEST SETUP PHOTOGRAPHS

### LEFT-CHEEK TOUCH



LEFT-TILT 15°



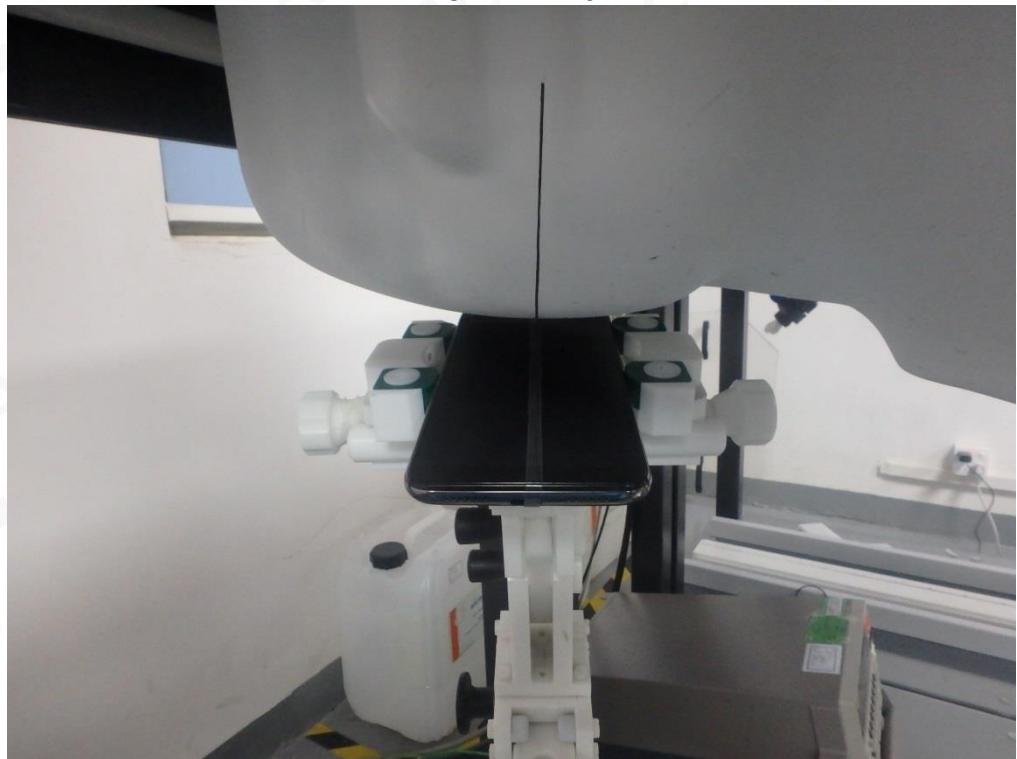
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RIGHT- CHEEK TOUCH



RIGHT-TILT 15°



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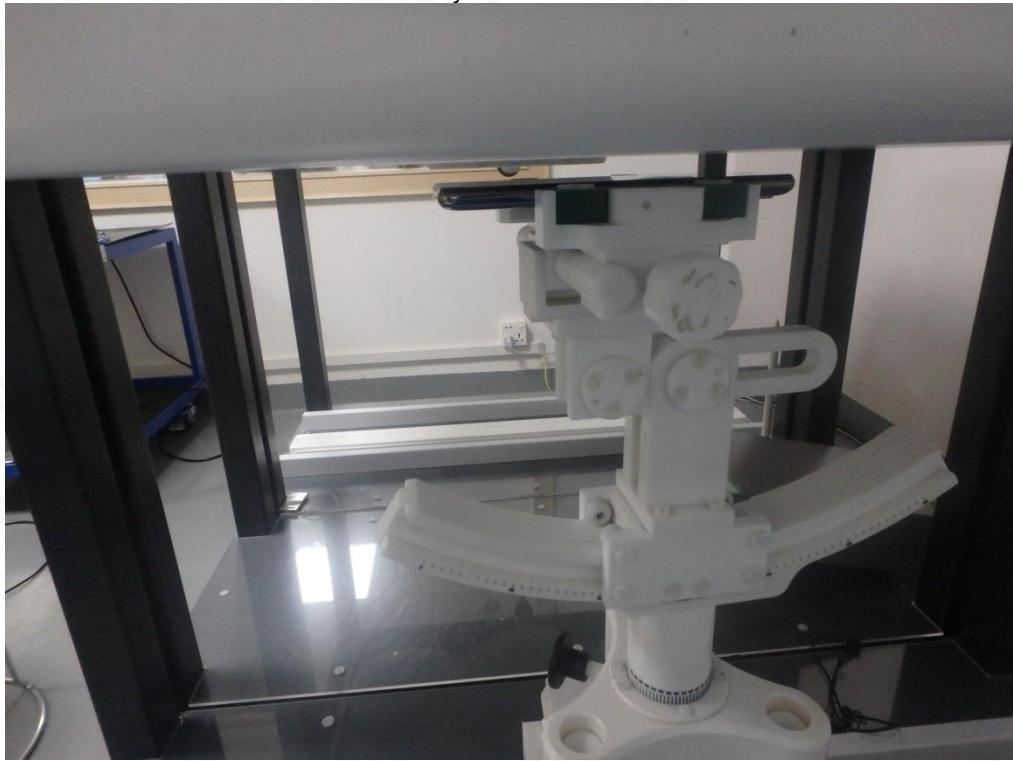
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,  
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Body Back 10mm



Body Front 10mm

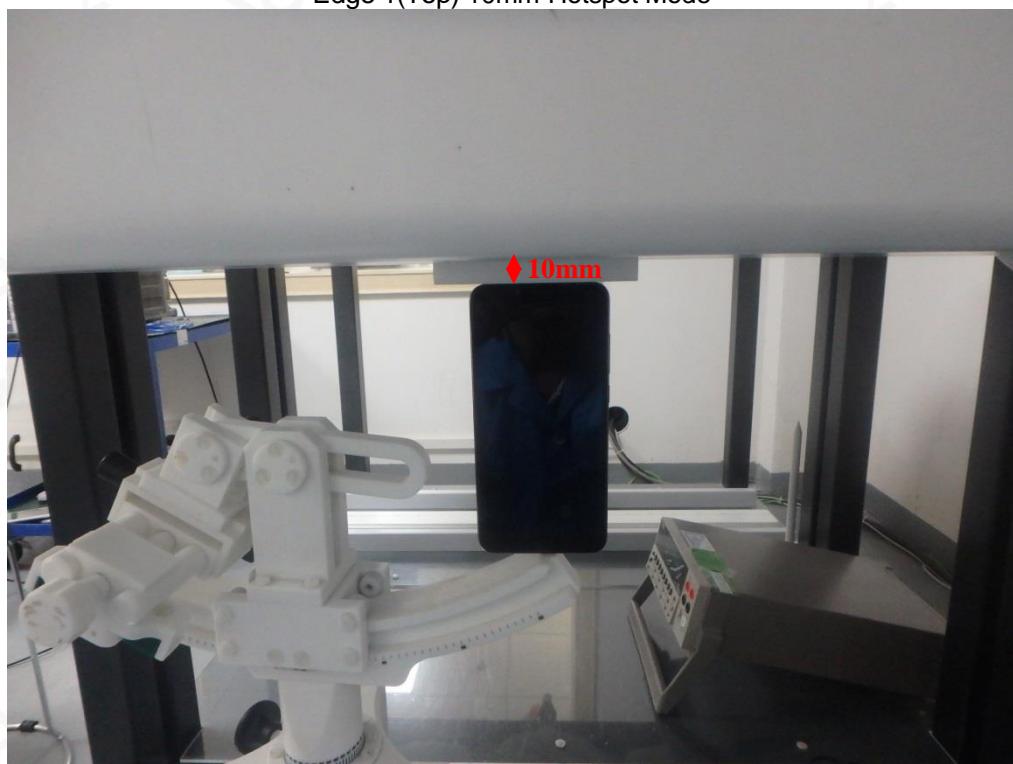


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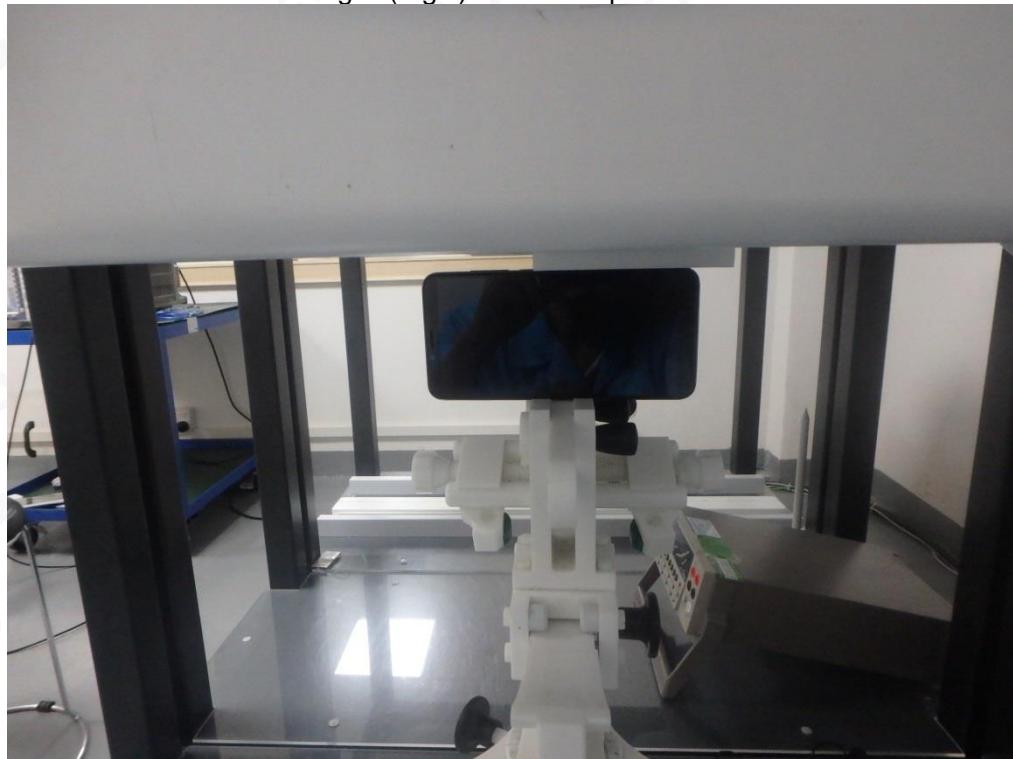
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu,  
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Edge 1(Top) 10mm-Hotspot Mode



Edge 2(Right) 10mm-Hotspot Mode

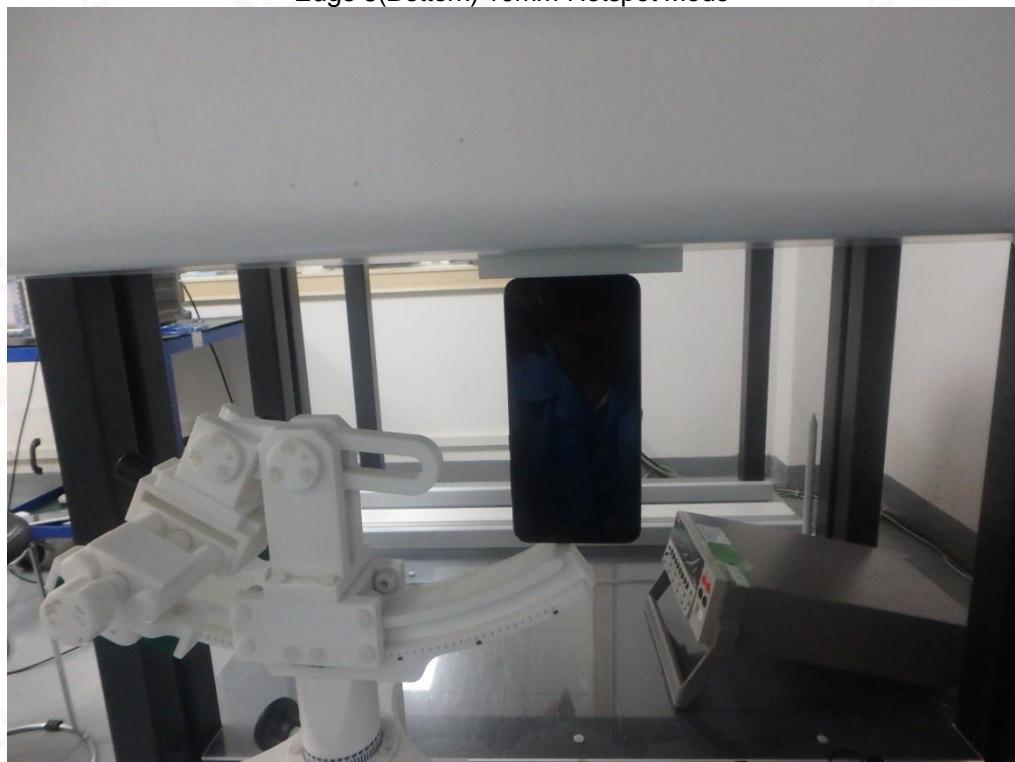


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Edge 3(Bottom) 10mm-Hotspot Mode



Edge 3(Bottom) with headset 10mm-Hotspot Mode

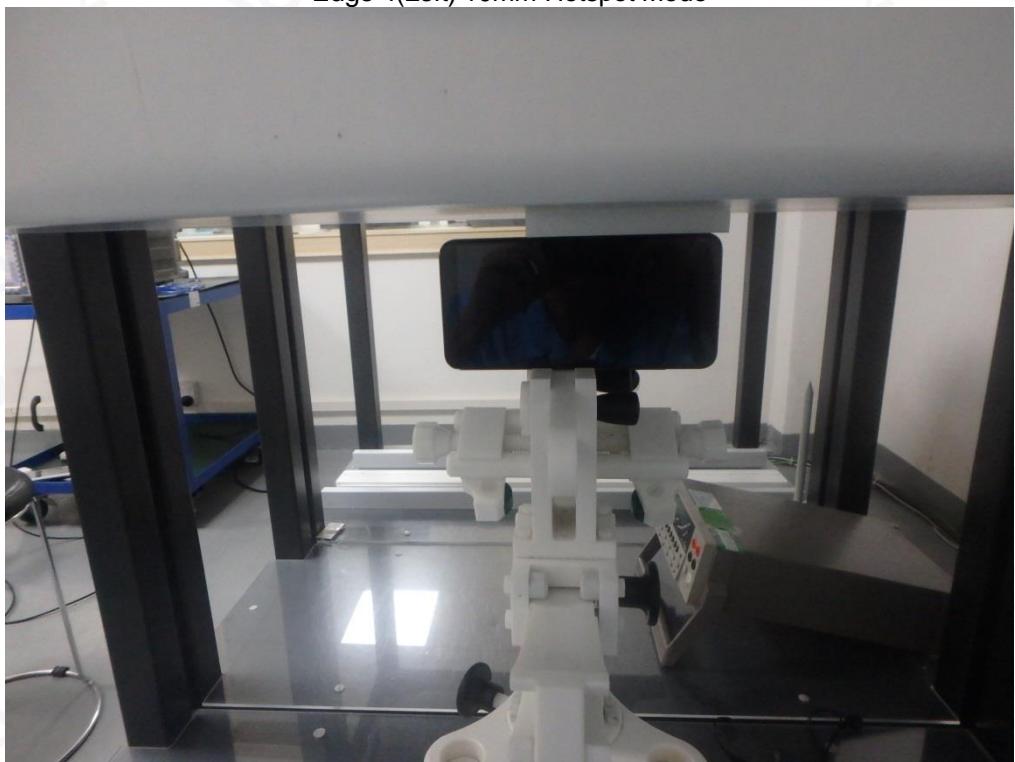


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Edge 4(Left) 10mm-Hotspot Mode



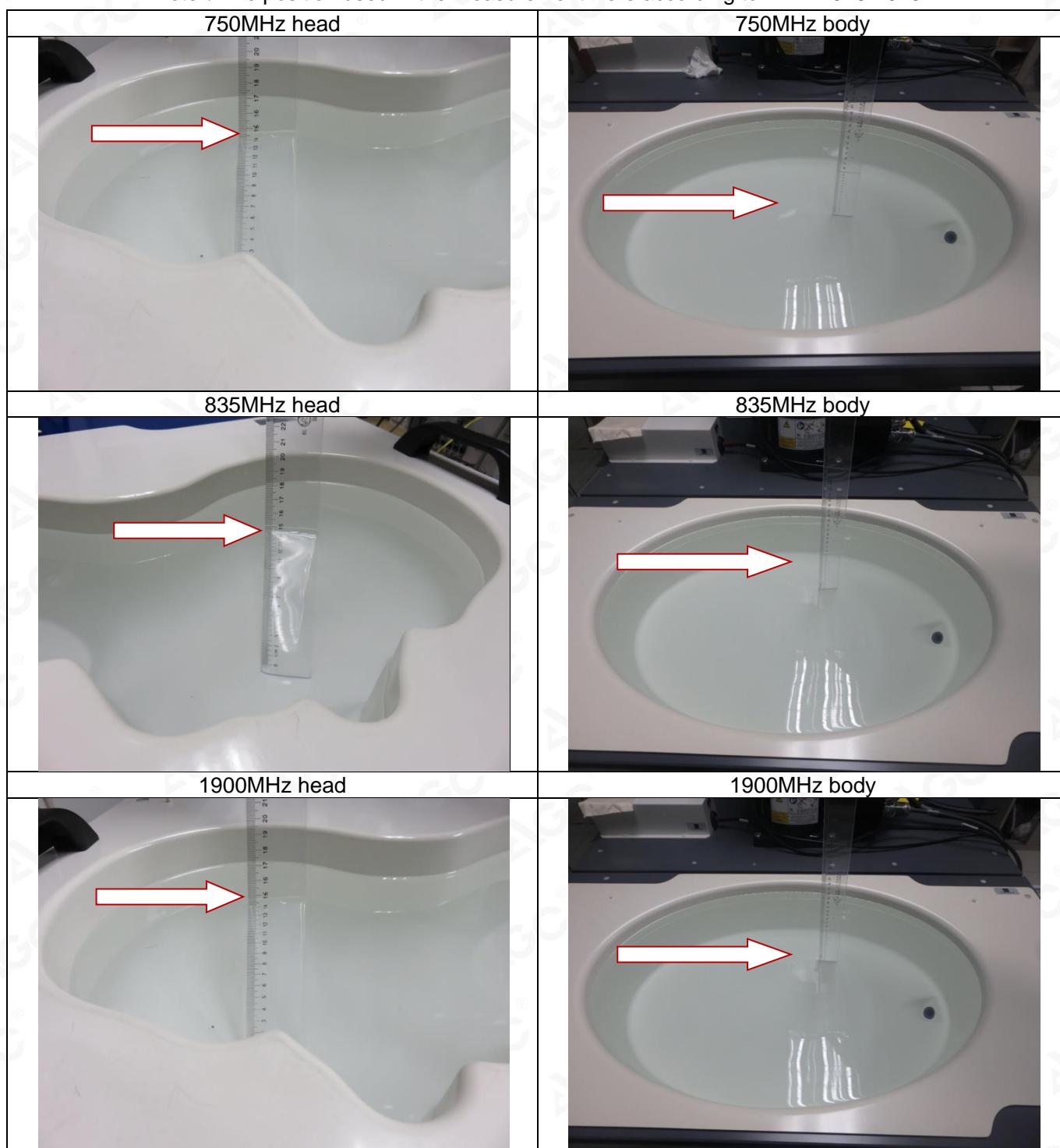
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**DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN**

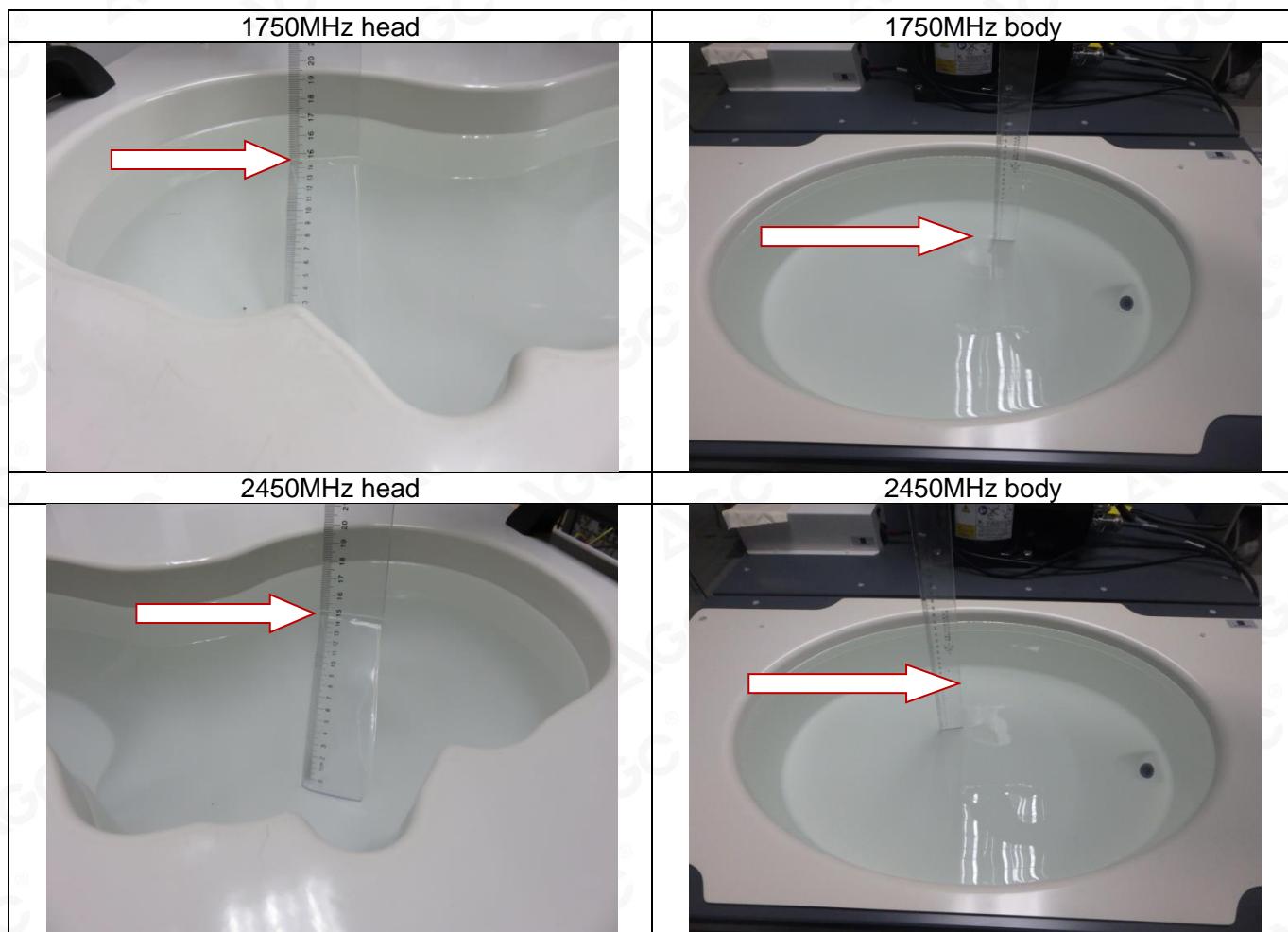
Note : The position used in the measurement were according to IEEE 1528-2013



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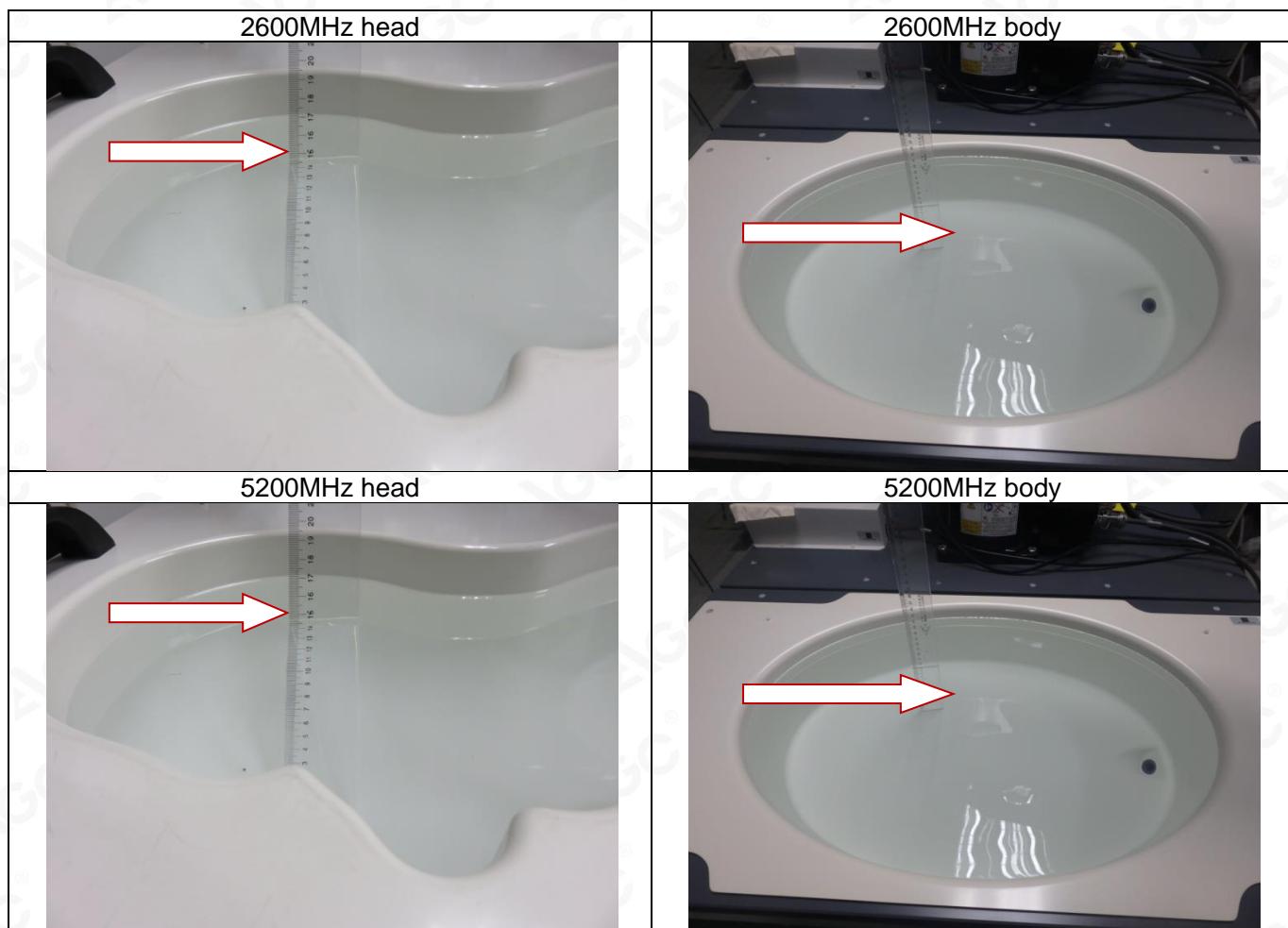
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## APPENDIX D. CALIBRATION DATA

Refer to Attached files.



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