

Appendix B: SAR Measurement results Plots

| Plot | Frequency/Mode | Testing Position and Channel | Test Date |
|-------------|-----------------------|-------------------------------------|------------------|
| 1 | LTE Band2 | Edge C, Middle ,10mm | 2020/08/31 |
| 2 | LTE Band4 | Edge C, Middle ,10mm | 2020/08/31 |
| 3 | LTE Band5 | Edge C, Middle ,10mm | 2020/08/28 |
| 4 | LTE Band12 | Edge C, Middle ,10mm | 2020/08/28 |
| 5 | LTE Band25 | Edge C, Middle ,10mm | 2020/08/31 |
| 6 | LTE Band26 | Edge C, Middle ,10mm | 2020/08/28 |
| 7 | LTE Band66 | Edge C, Middle ,10mm | 2020/08/31 |
| 8 | WIFI 2.4G 802.11b | Edge C, Middle ,10mm | 2020/08/26 |
| 9 | WIFI 5G 802.11a | Edge C, Middle ,10mm | 2020/08/27 |

Plot 1: LTE Band2, 20MHz, Edge C, Middle,10mm

Type: Phone measurement

Date of measurement: 08/31/2020

Measurement duration: 22 minutes 10 seconds

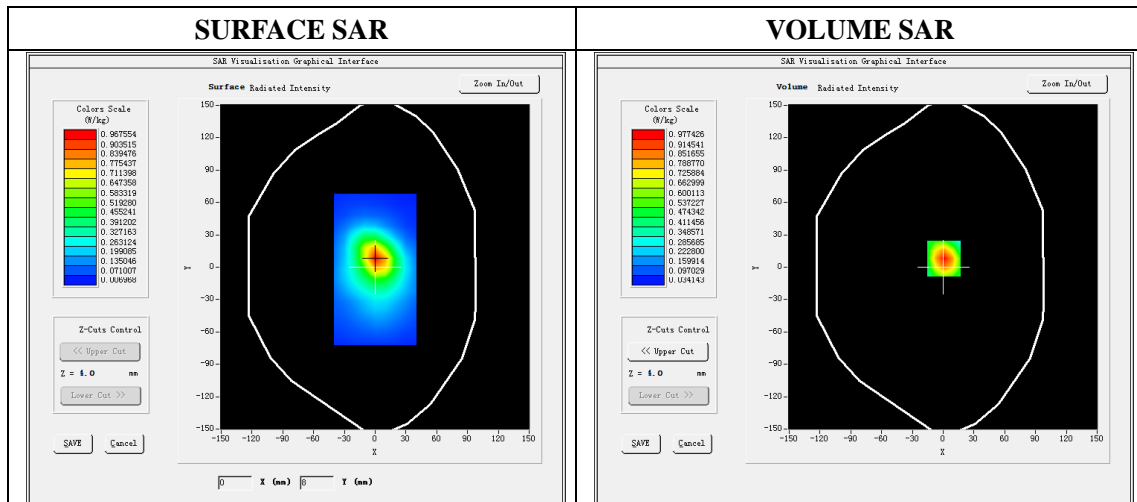
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

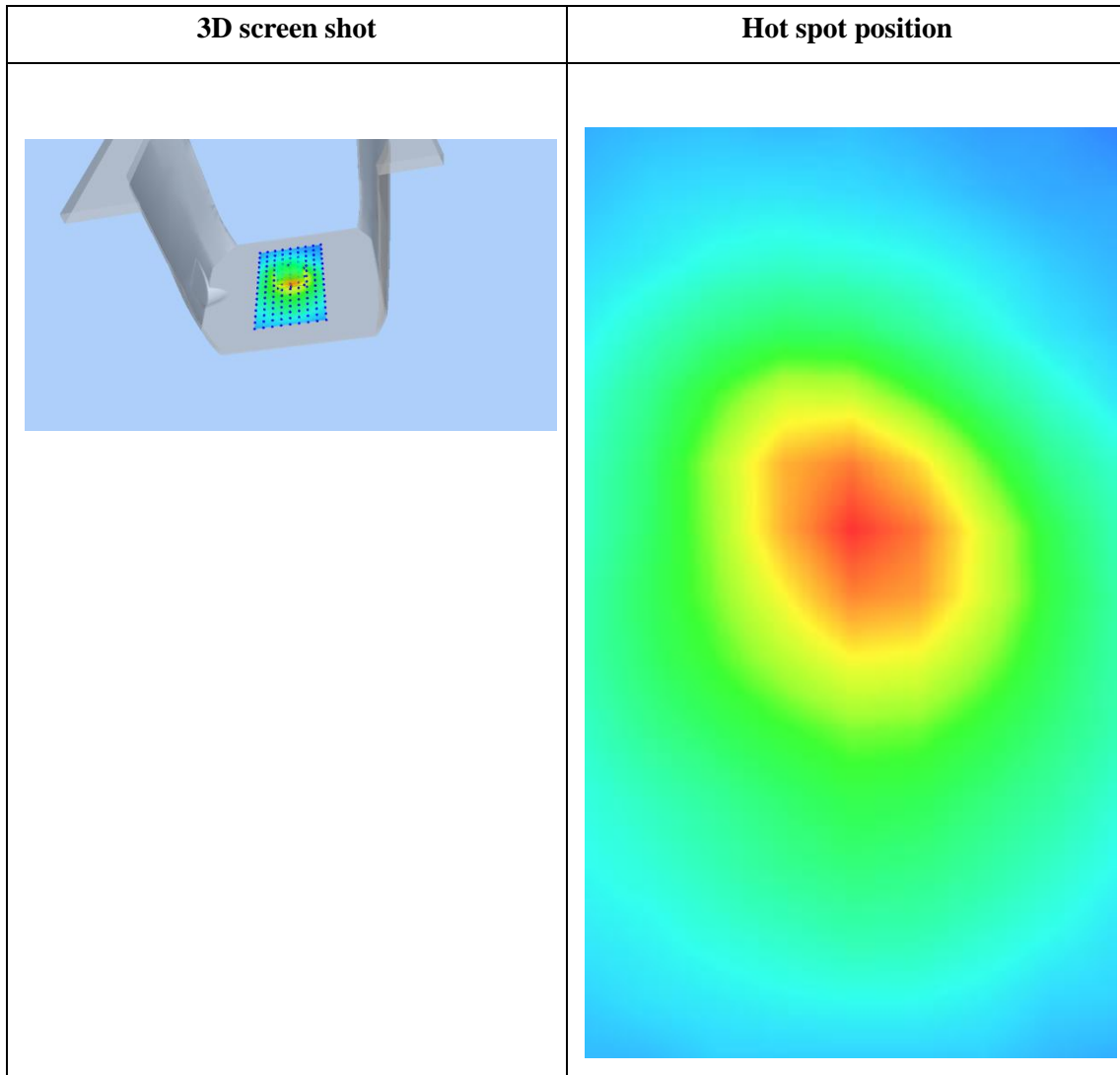
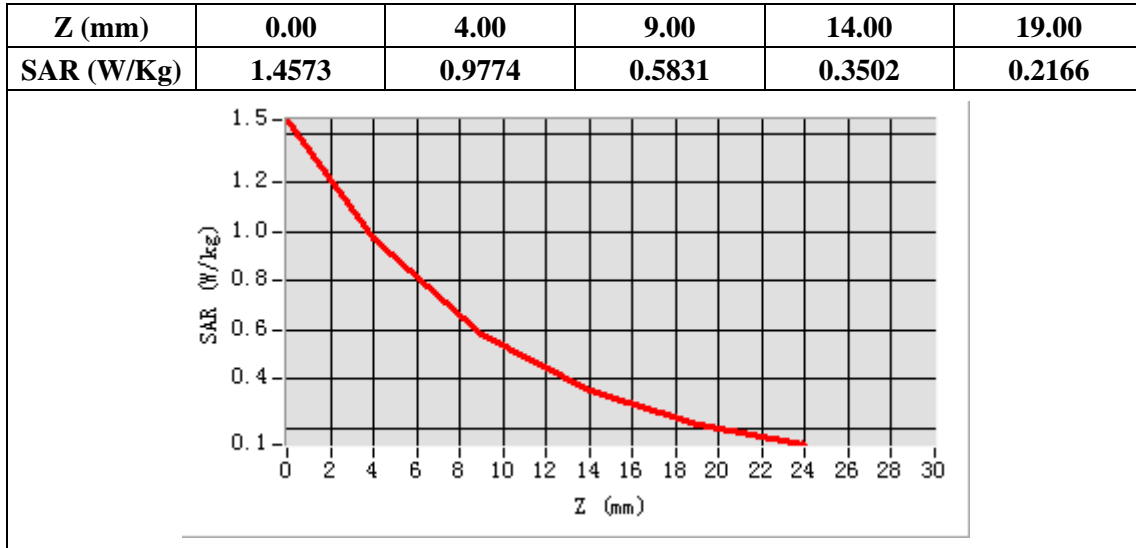
| | |
|--|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 1880 |
| Relative permittivity (real part) | 53.25 |
| Relative permittivity (imaginary) | 14.02 |
| Conductivity (S/m) | 1.48 |
| Variation (%) | 1.22 |
| ConvF: | 2.26 |



Maximum location: X=1.00, Y=8.00

SAR Peak: 1.46W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.504210 |
| SAR 1g (W/Kg) | 0.908819 |



Plot 2: LTE Band4, 20MHz, Edge C, Middle,10mm

Type: Phone measurement

Date of measurement: 08/31/2020

Measurement duration: 22 minutes 08 seconds

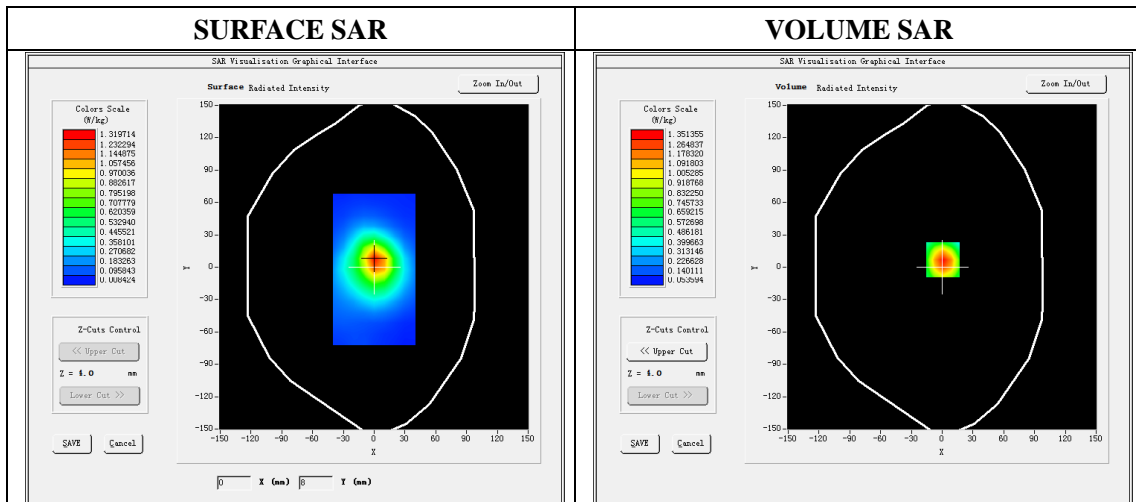
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

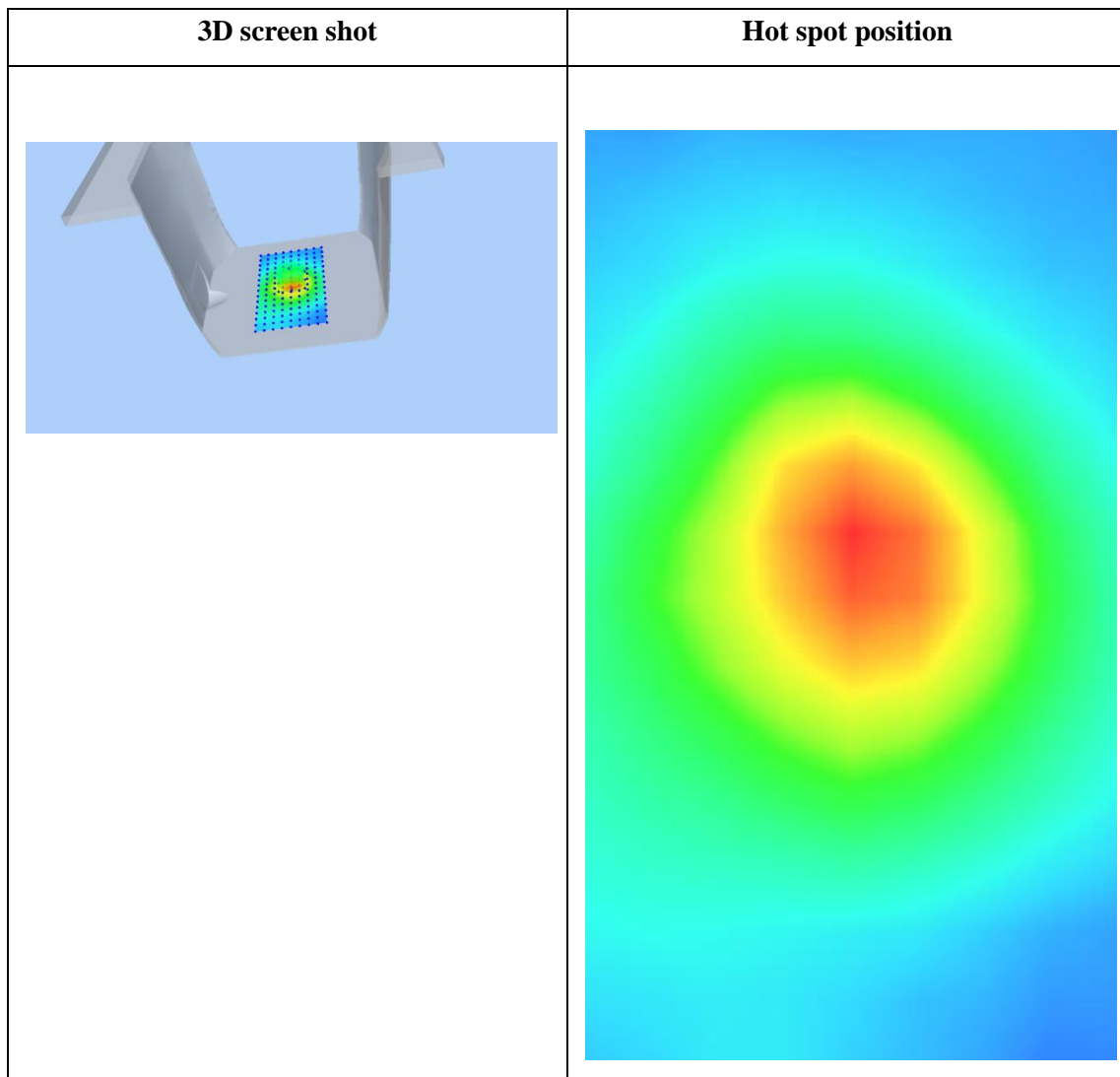
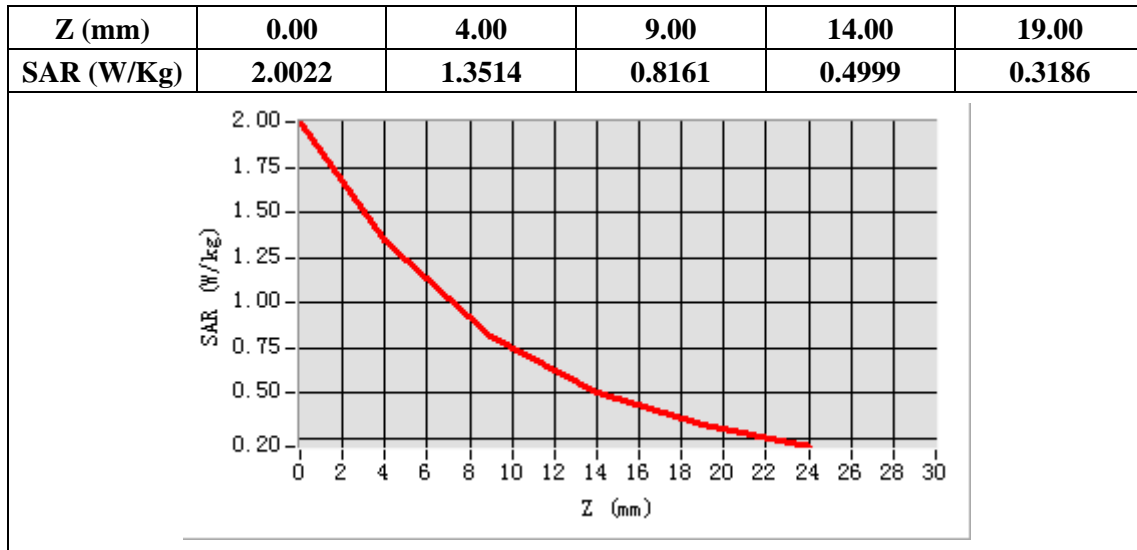
| | |
|-----------------------------------|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 1732.5 |
| Relative permittivity (real part) | 53.33 |
| Relative permittivity (imaginary) | 15.50 |
| Conductivity (S/m) | 1.55 |
| Variation (%) | -0.01 |
| ConvF: | 2.09 |



Maximum location: X=1.00, Y=7.00

SAR Peak: 2.01W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.725501 |
| SAR 1g (W/Kg) | 1.291140 |



Plot 3: LTE Band5, 10MHz, Edge C, Middle,10mm

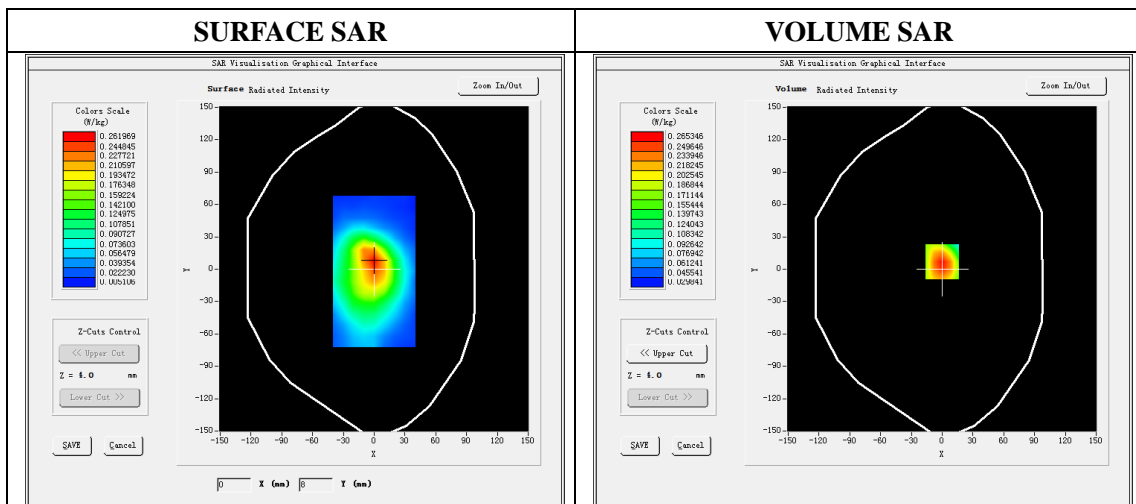
Type: Phone measurement
 Date of measurement: 08/28/2020
 Measurement duration: 22 minutes 12 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

| | |
|-----------------|----------------------------|
| Area Scan | dx=8mm dy=8mm |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Phantom | Validation plane |
| Device Position | Edge C |
| 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) | 55.16 |
| Relative permittivity (imaginary) | 20.50 |
| Conductivity (S/m) | 0.95 |
| Variation (%) | -1.07 |
| ConvF: | 1.90 |

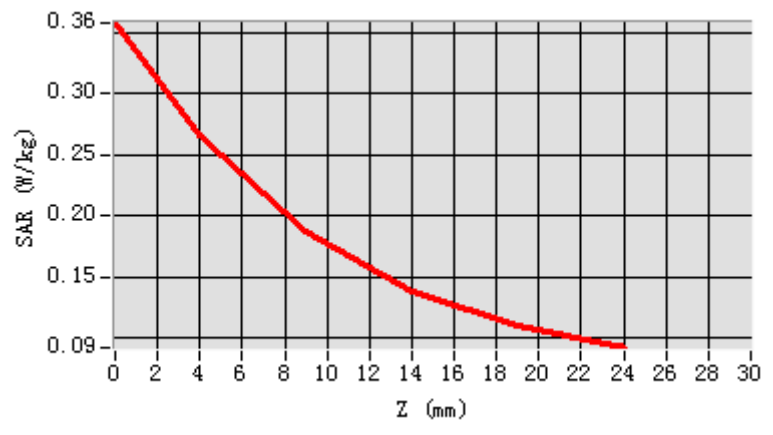


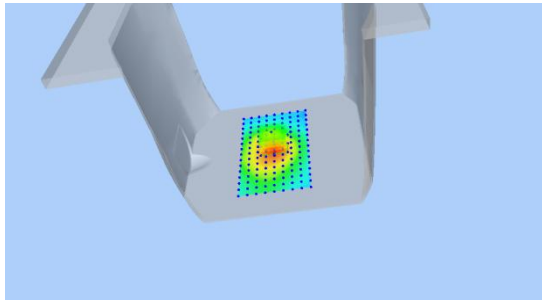
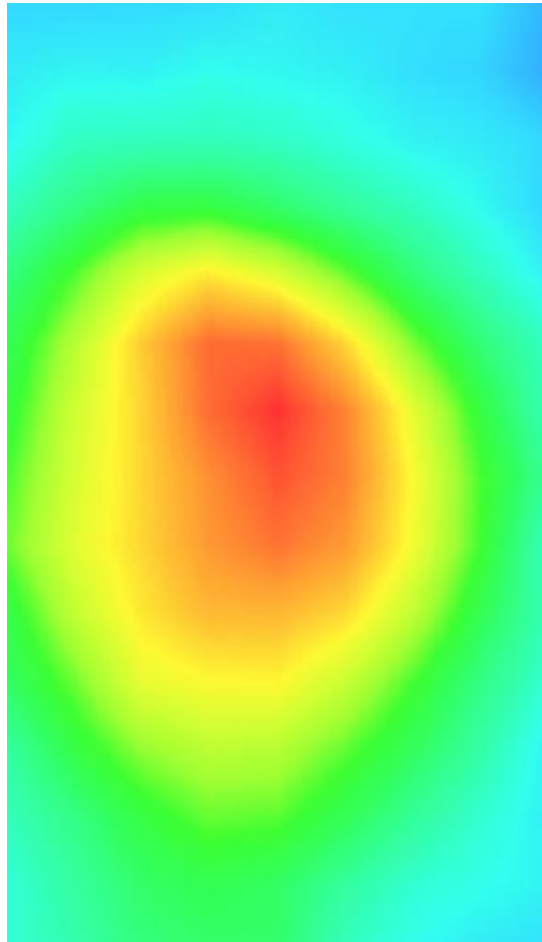
Maximum location: X=0.00, Y=7.00

SAR Peak: 0.36W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.172432 |
| SAR 1g (W/Kg) | 0.253576 |

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
|------------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 0.3578 | 0.2653 | 0.1864 | 0.1384 | 0.1106 |



| 3D screen shot | Hot spot position |
|--|---|
|  |  |

Plot 4: LTE Band12, 10MHz, Edge C, Middle,10mm

Type: Phone measurement

Date of measurement: 08/28/2020

Measurement duration: 22 minutes 15 seconds

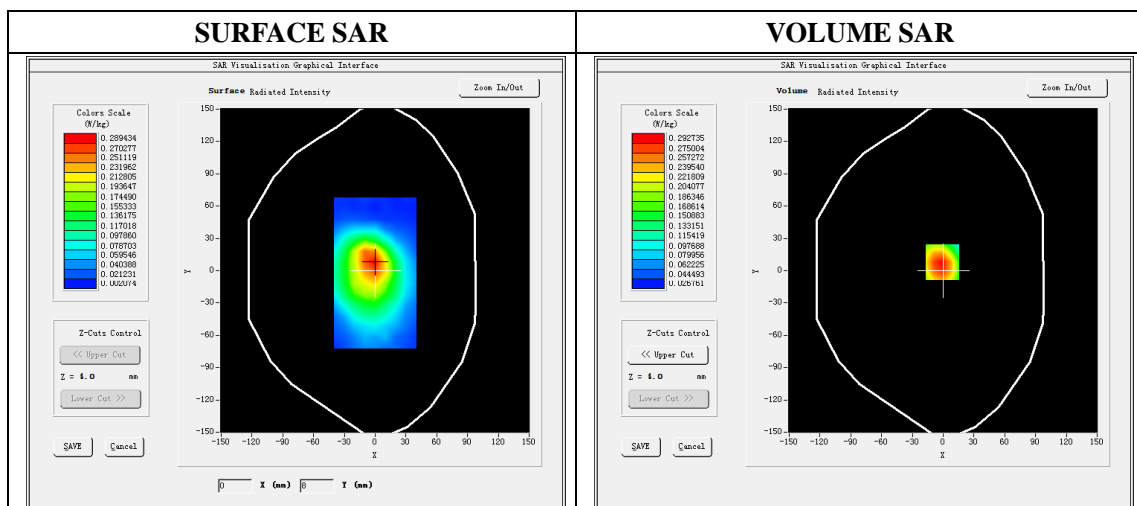
Mobile Phone IMEI number: --

A. Experimental conditions.

| | |
|------------------------|----------------------------|
| Area Scan | dx=8mm dy=8mm |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Phantom | Validation plane |
| Device Position | Edge C |
| 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) | 55.47 |
| Relative permittivity (imaginary) | 22.56 |
| Conductivity (S/m) | 0.94 |
| Variation (%) | -2.49 |
| ConvF: | 1.88 |

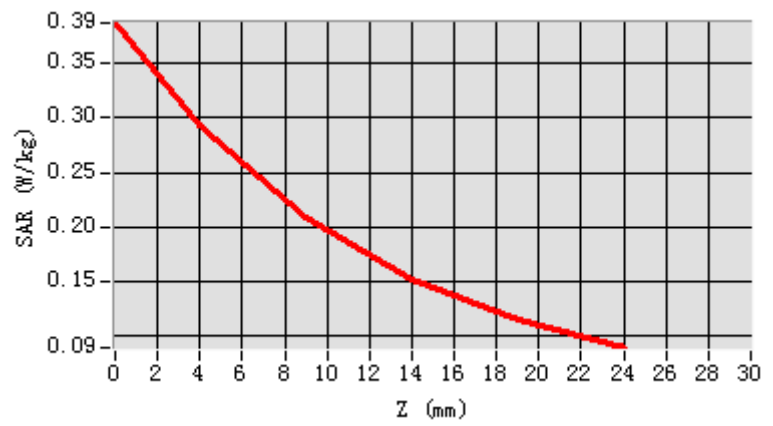


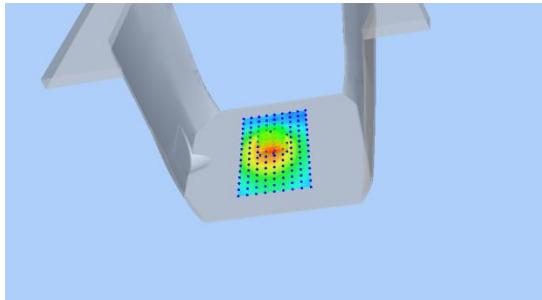
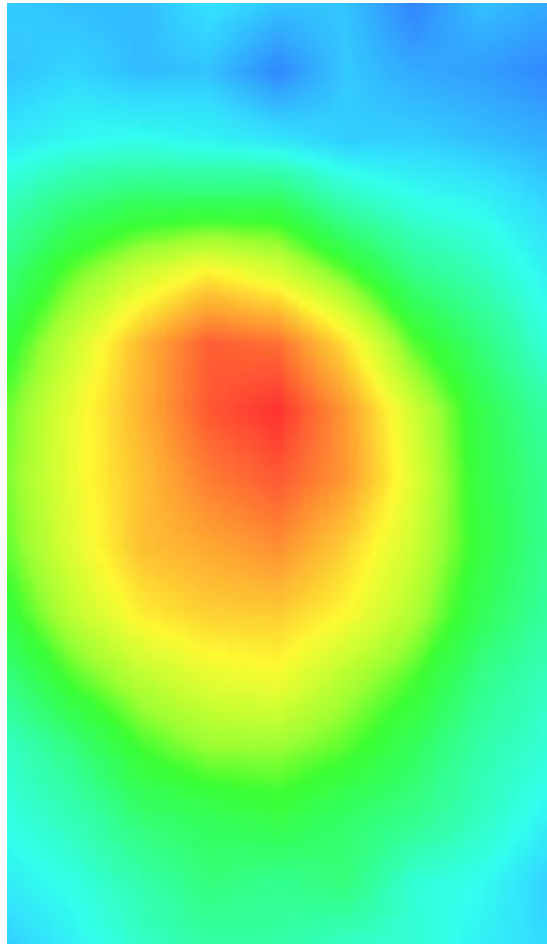
Maximum location: X=-1.00, Y=8.00

SAR Peak: 0.39W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.192053 |
| SAR 1g (W/Kg) | 0.287967 |

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
|------------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 0.3873 | 0.2927 | 0.2080 | 0.1521 | 0.1157 |



| 3D screen shot | Hot spot position |
|--|---|
|  |  |

Plot 5: LTE Band25, 20MHz, Edge C, Middle,10mm

Type: Phone measurement

Date of measurement: 08/31/2019

Measurement duration: 22 minutes 11 seconds

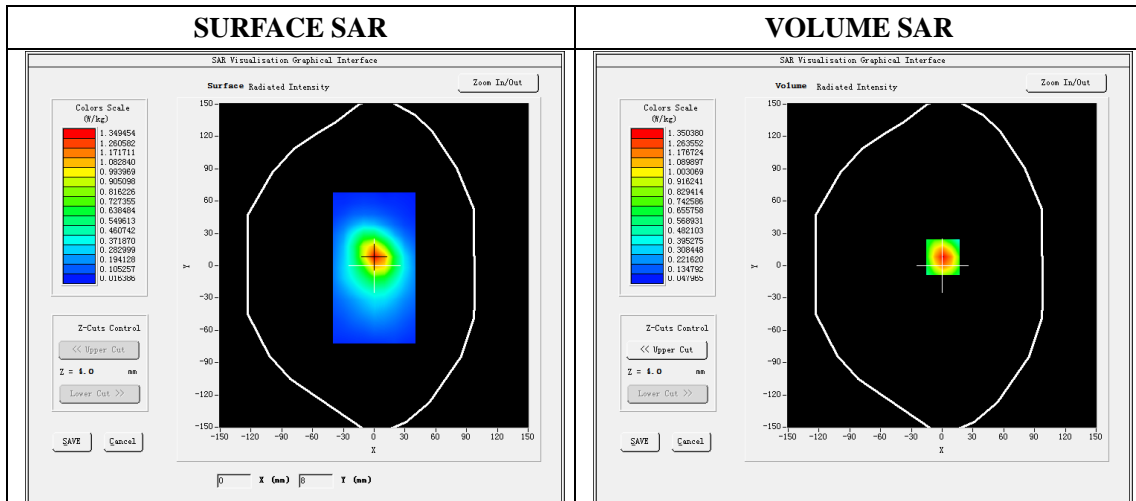
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

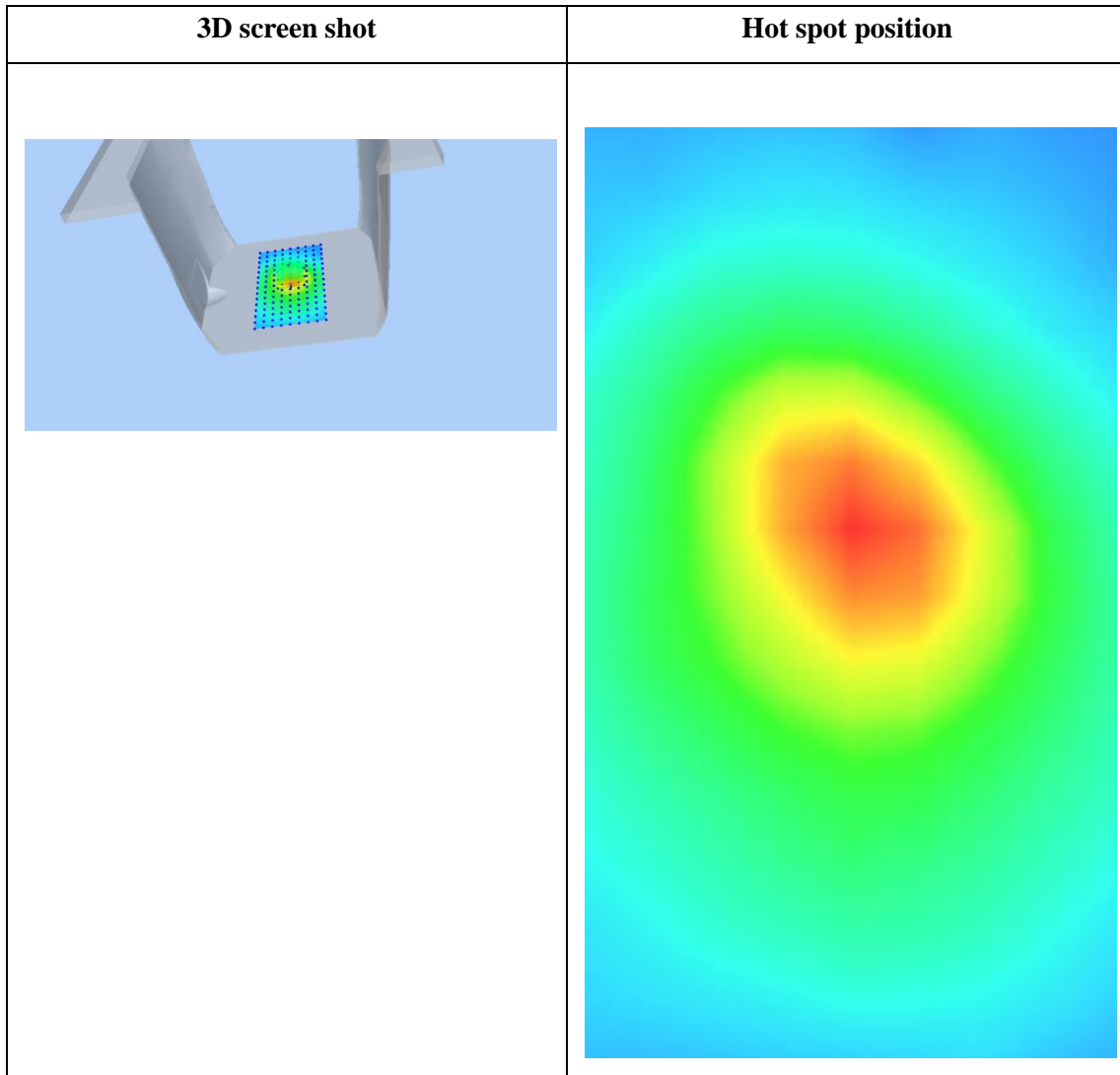
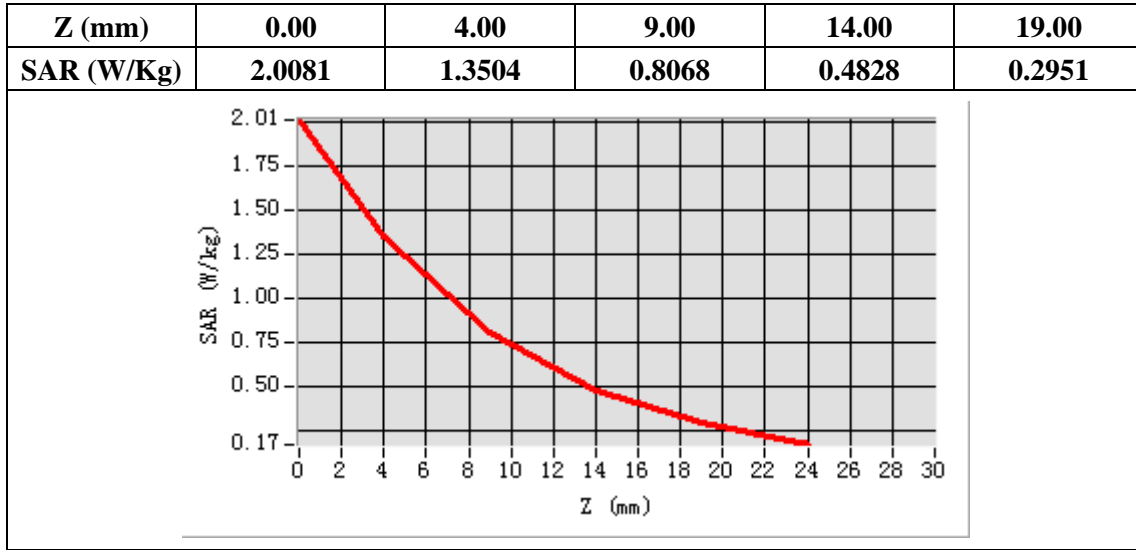
| | |
|--|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 1882.5 |
| Relative permittivity (real part) | 53.25 |
| Relative permittivity (imaginary) | 14.02 |
| Conductivity (S/m) | 1.48 |
| Variation (%) | 0.30 |
| ConvF: | 2.26 |



Maximum location: X=1.00, Y=8.00

SAR Peak: 2.01W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.704581 |
| SAR 1g (W/Kg) | 1.273838 |



Plot 6: LTE Band26, 10MHz, Edge C, Middle,10mm

Type: Phone measurement

Date of measurement: 08/28/2020

Measurement duration: 22 minutes 14 seconds

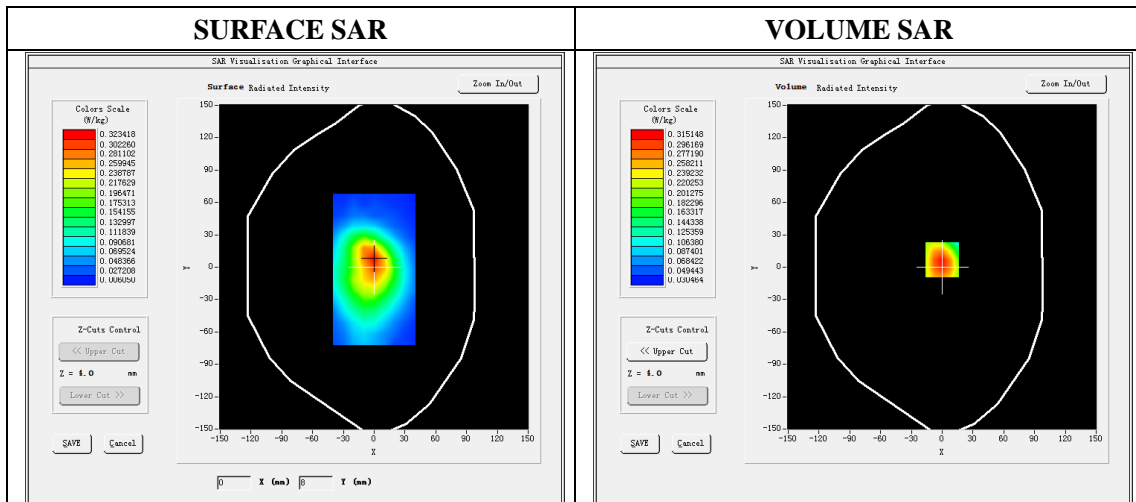
Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

| | |
|--|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 831.5 |
| Relative permittivity (real part) | 55.16 |
| Relative permittivity (imaginary) | 20.50 |
| Conductivity (S/m) | 0.95 |
| Variation (%) | -2.30 |
| ConvF: | 1.90 |

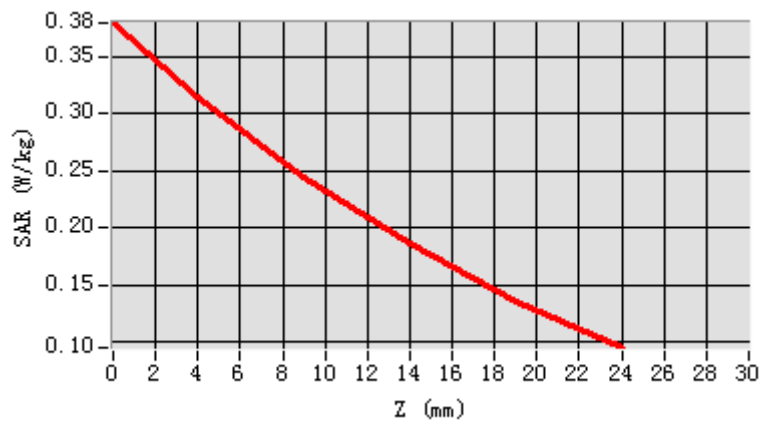


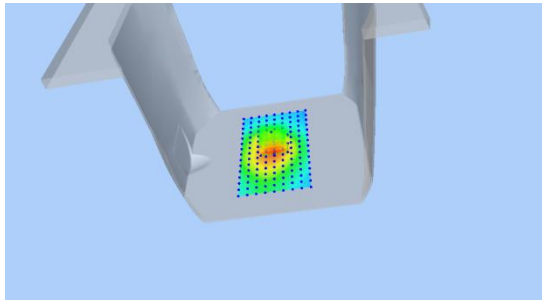
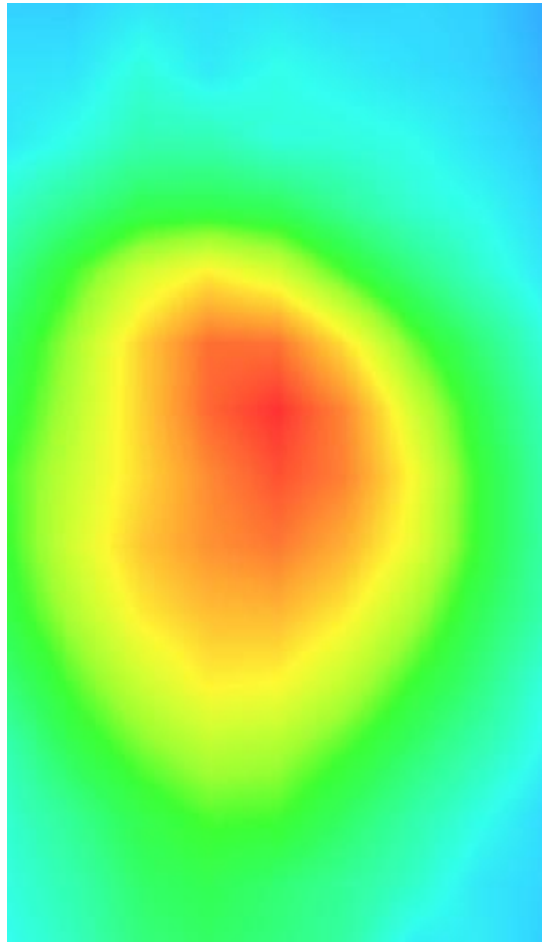
Maximum location: X=0.00, Y=7.00

SAR Peak: 0.38W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.209124 |
| SAR 1g (W/Kg) | 0.302296 |

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
|------------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 0.3798 | 0.3151 | 0.2450 | 0.1858 | 0.1364 |



| 3D screen shot | Hot spot position |
|--|---|
|  |  |

Plot 7: LTE Band66, 20MHz, Edge C , Middle,10mm

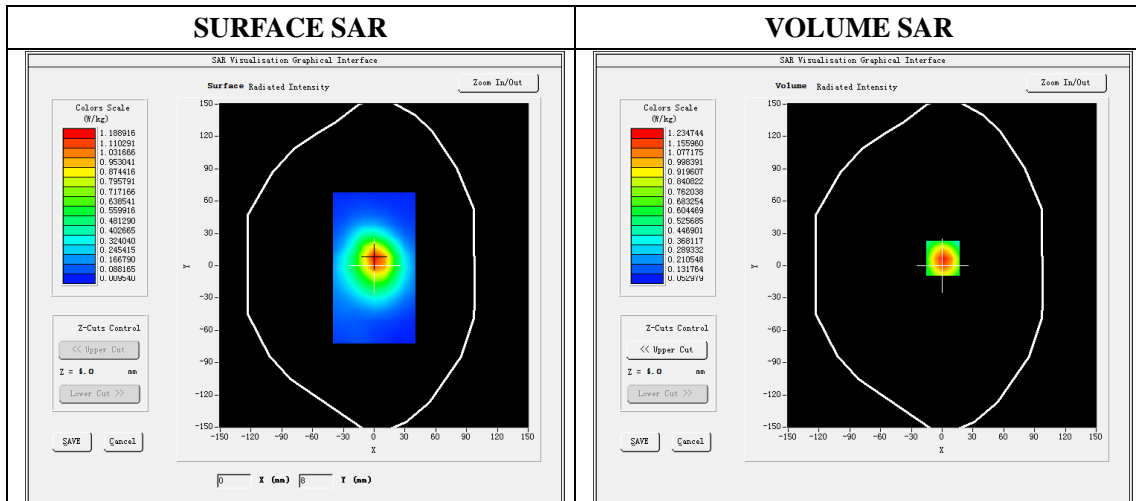
Type: Phone measurement
 Date of measurement: 08/31/2019
 Measurement duration: 22 minutes 13 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

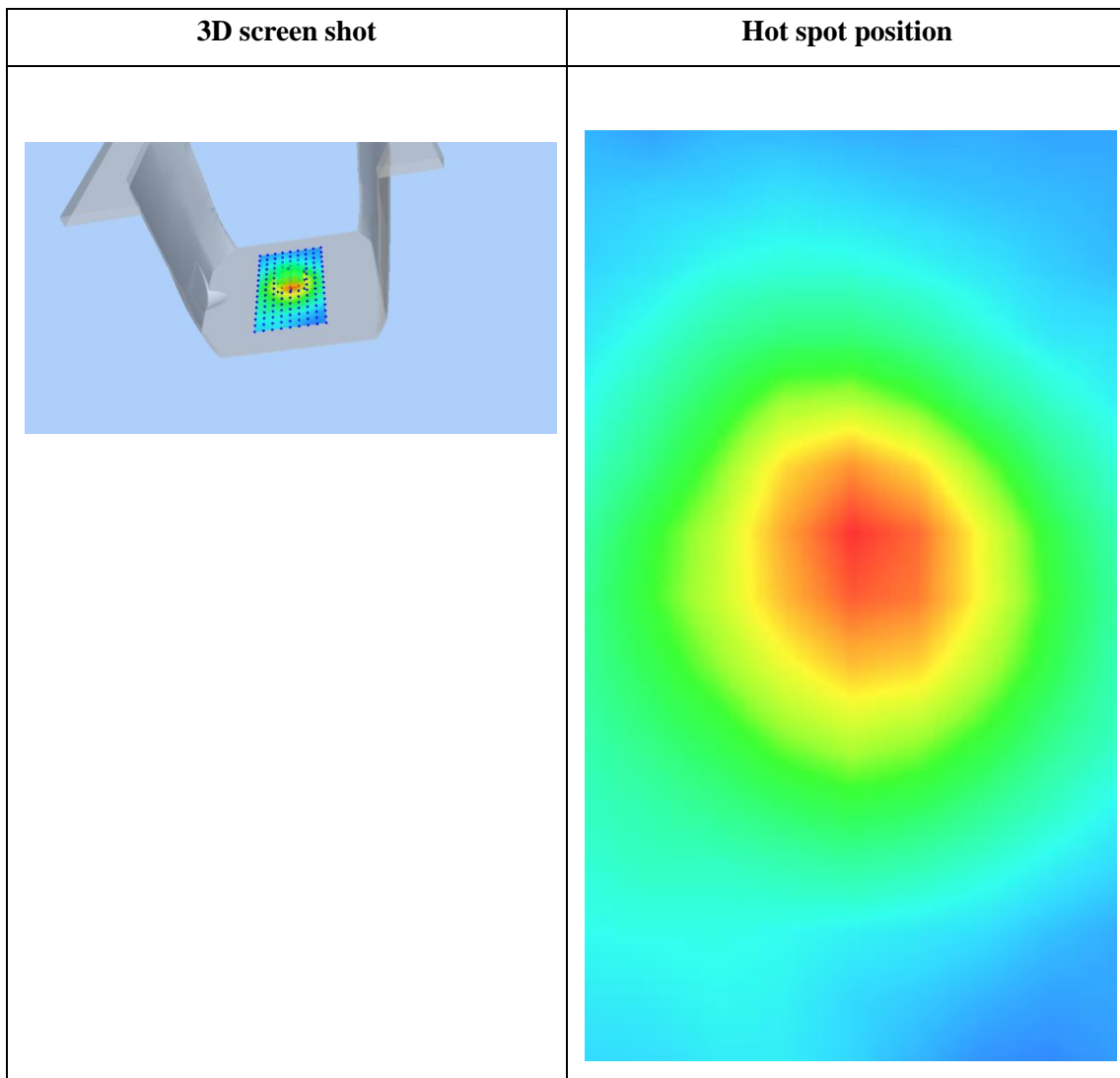
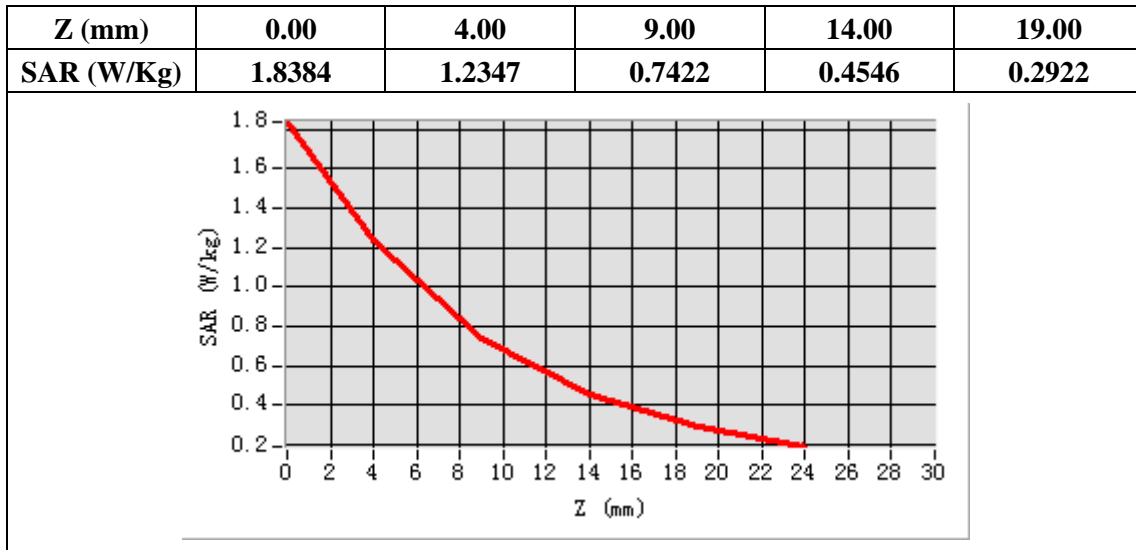
| | |
|--|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 1732.5 |
| Relative permittivity (real part) | 53.33 |
| Relative permittivity (imaginary) | 15.50 |
| Conductivity (S/m) | 1.55 |
| Variation (%) | -0.16 |
| ConvF: | 2.09 |



Maximum location: X=1.00, Y=7.00

SAR Peak: 1.85W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.665227 |
| SAR 1g (W/Kg) | 1.180210 |



Plot 8: Wi-Fi 802.11b, Edge C ,Middle, 10mm

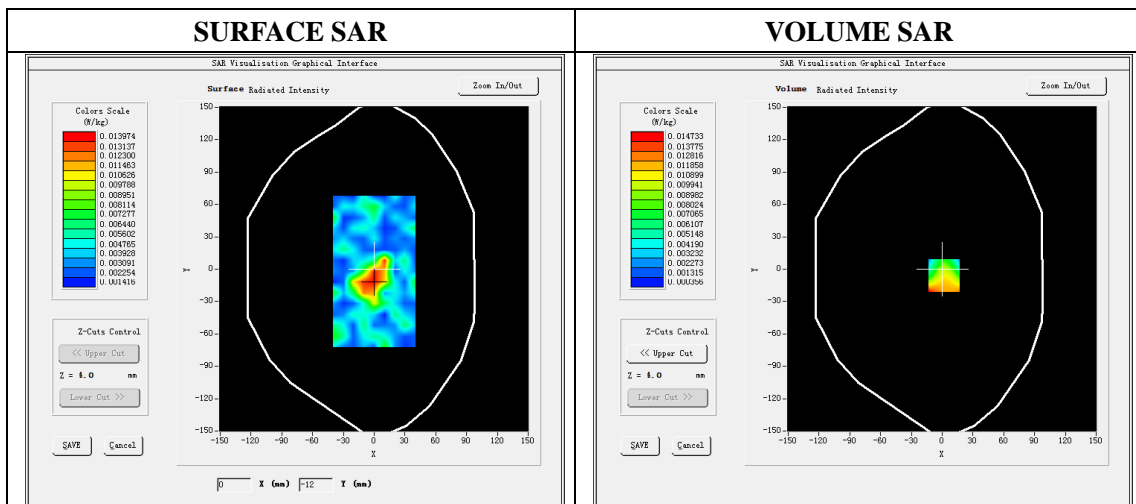
Type: Phone measurement
 Date of measurement: 08/26/2020
 Measurement duration: 22 minutes 17 seconds
 Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. SAR Measurement Results

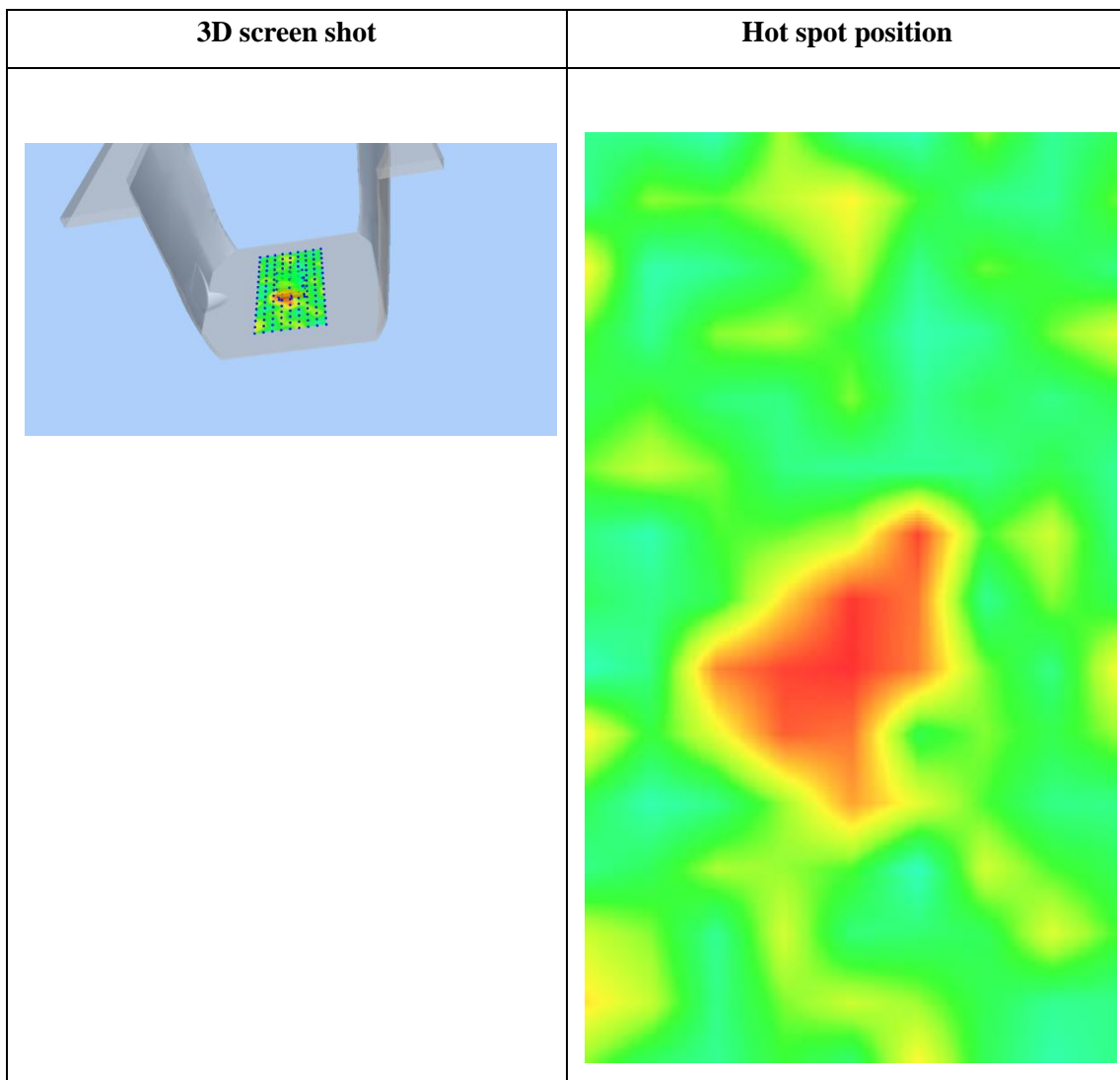
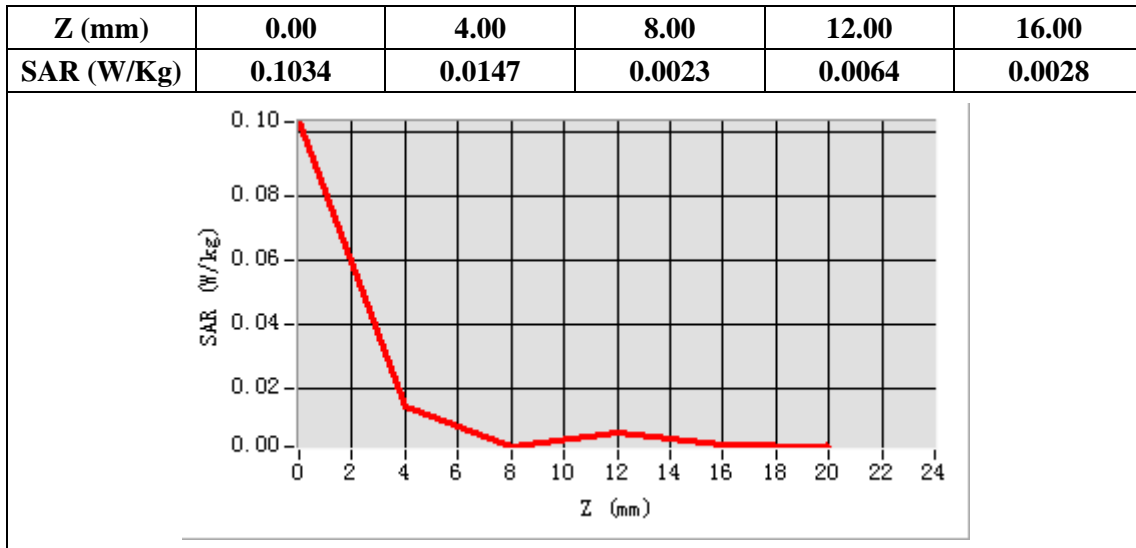
| | |
|--|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 2437 |
| Relative permittivity (real part) | 52.69 |
| Relative permittivity (imaginary) | 14.33 |
| Conductivity (S/m) | 1.95 |
| Variation (%) | -4.51 |
| ConvF: | 2.47 |



Maximum location: X=2.00 Y=-6.00

SAR Peak: 0.03 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.008373 |
| SAR 1g (W/Kg) | 0.014336 |



Plot 9: WIFI 5G 802.11a(20MHz), Edge C, Middle,10mm

Type: Phone measurement

Date of measurement: 08/27/2020

Measurement duration: 22 minutes 16 seconds

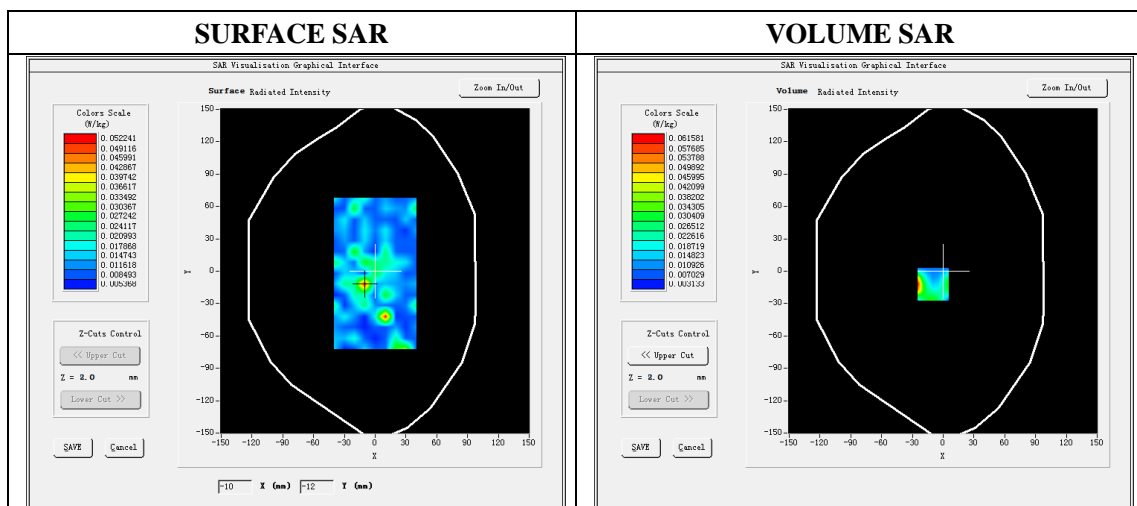
Mobile Phone IMEI number: --

A. Experimental conditions.

| | |
|------------------------|------------------------------|
| Area Scan | dx=4mm,dy=4mm |
| ZoomScan | 7x7x12,dx=4m, dy=4mm, dz=2mm |
| Phantom | Validation plane |
| Device Position | Edge C |
| Band | WIFI 5G |
| Channels | 165 |
| Signal | OFDM (Duty cycle: 1:1) |

B. SAR Measurement Results

| | |
|--|-------------------------|
| E-Field Probe | SATIMO SN_27/15_EPG0261 |
| Frequency (MHz) | 5825 |
| Relative permittivity (real part) | 48.23 |
| Relative permittivity (imaginary) | 18.68 |
| Conductivity (S/m) | 6.02 |
| Variation (%) | -3.45 |
| ConvF: | 2.34 |



Maximum location: X=-10.00 Y=-12.00

SAR Peak: 0.12 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.023362 |
| SAR 1g (W/Kg) | 0.031316 |

