



Annex A: System Check

Tested Model : X571

**Report Number:
FCC17060520A**

MEASUREMENT 1

BODY

Type: Validation measurement (Complete)

Date of measurement: 10/6/2017

Measurement duration: 11 minutes 54 seconds

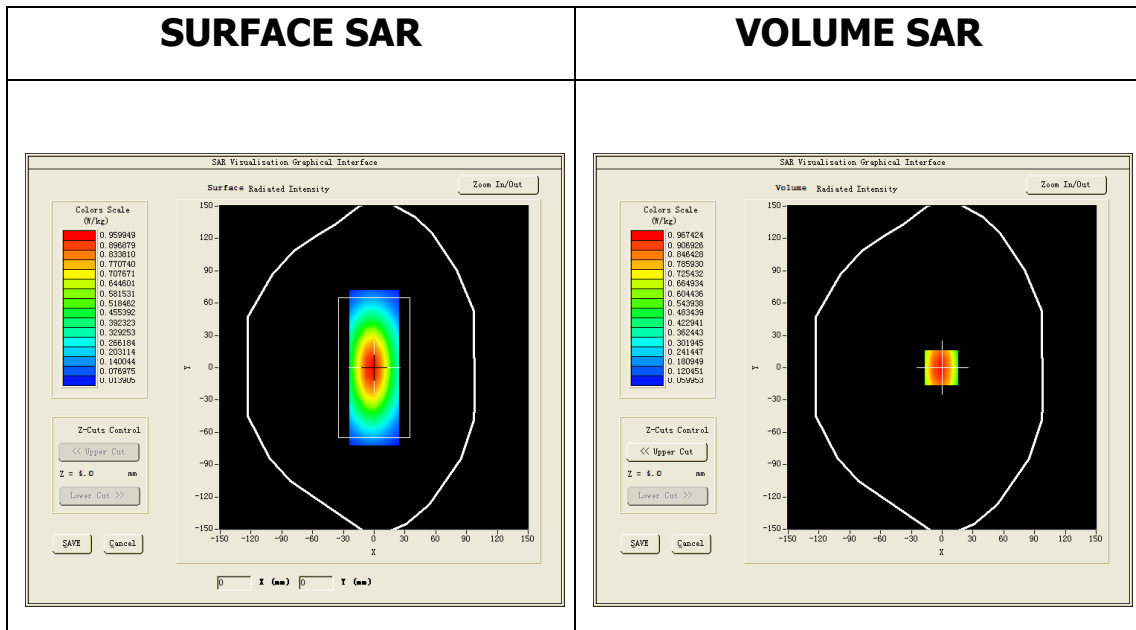
A. Experimental conditions.

| | |
|-------------------------------|--|
| <u>Area Scan</u> | <u>dx=8mm dy=8mm</u> |
| <u>ZoomScan</u> | <u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u> |
| <u>Phantom</u> | <u>Validation plane</u> |
| <u>Device Position</u> | <u>Dipole</u> |
| <u>Band</u> | <u>CW835</u> |
| <u>Channels</u> | <u>Middle</u> |
| <u>Signal</u> | <u>CW (Crest factor: 1.0)</u> |

B. SAR Measurement Results

Middle Band SAR (Channel -1):

| | |
|---|------------|
| Frequency (MHz) | 835.000000 |
| Relative permittivity (real part) | 53.927799 |
| Relative permittivity (imaginary part) | 21.281300 |
| Conductivity (S/m) | 0.987216 |
| Variation (%) | 0.120000 |

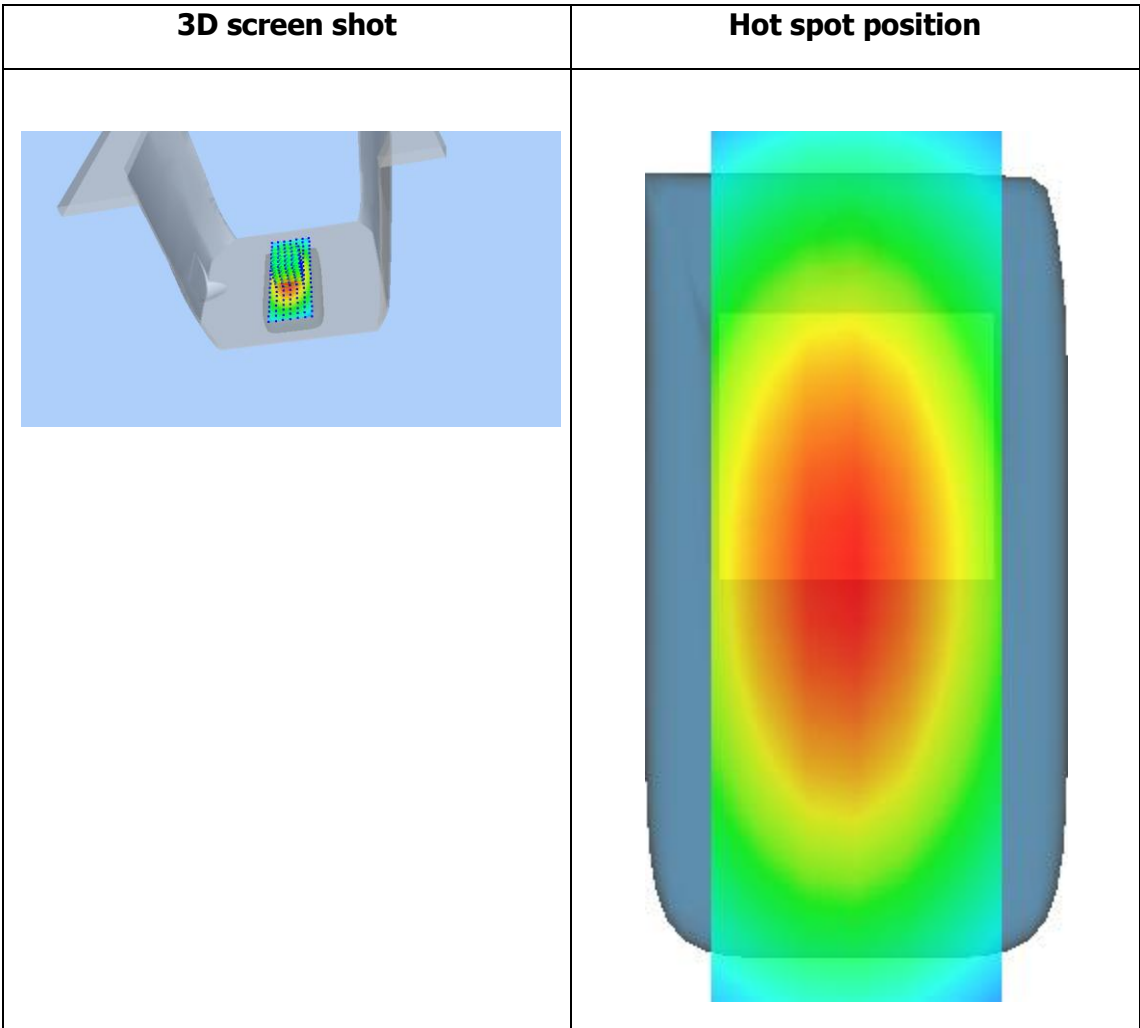
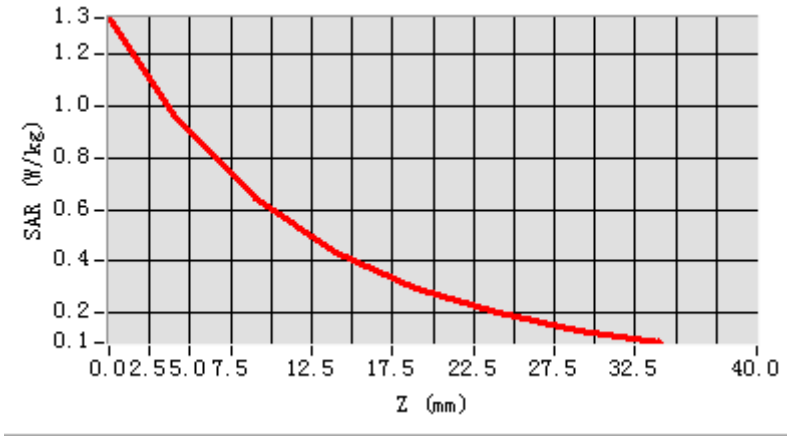


Maximum location: X=-1.00, Y=0.00

SAR Peak: 1.44 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.644746 |
| SAR 1g (W/Kg) | 1.014583 |

| | | | | | | | |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 1.3418 | 0.9674 | 0.6426 | 0.4358 | 0.2947 | 0.1989 | 0.1326 |



MEASUREMENT 2

HEAD

Type: Validation measurement (Complete)

Date of measurement: 10/6/2017

Measurement duration: 11 minutes 54 seconds

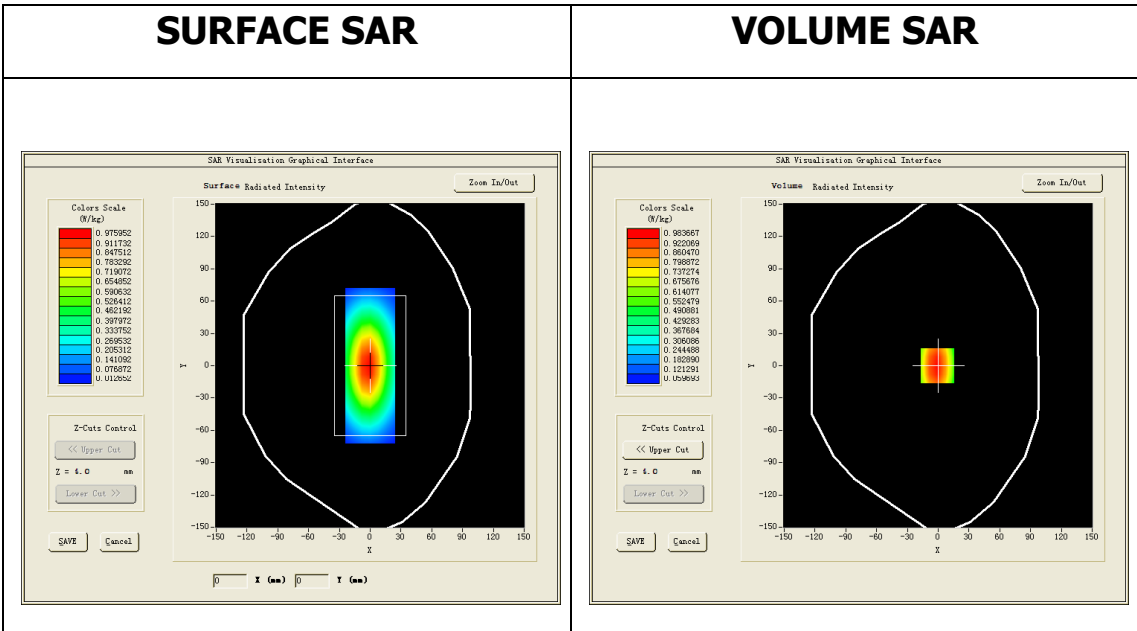
A. Experimental conditions.

| | |
|-------------------------------|--|
| <u>Area Scan</u> | <u>dx=8mm dy=8mm</u> |
| <u>ZoomScan</u> | <u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u> |
| <u>Phantom</u> | <u>Validation plane</u> |
| <u>Device Position</u> | <u>Dipole</u> |
| <u>Band</u> | <u>CW835</u> |
| <u>Channels</u> | <u>Middle</u> |
| <u>Signal</u> | <u>CW (Crest factor: 1.0)</u> |

B. SAR Measurement Results

Middle Band SAR (Channel -1):

| | |
|---|------------|
| Frequency (MHz) | 835.000000 |
| Relative permittivity (real part) | 40.328999 |
| Relative permittivity (imaginary part) | 19.880501 |
| Conductivity (S/m) | 0.922234 |
| Variation (%) | -0.070000 |

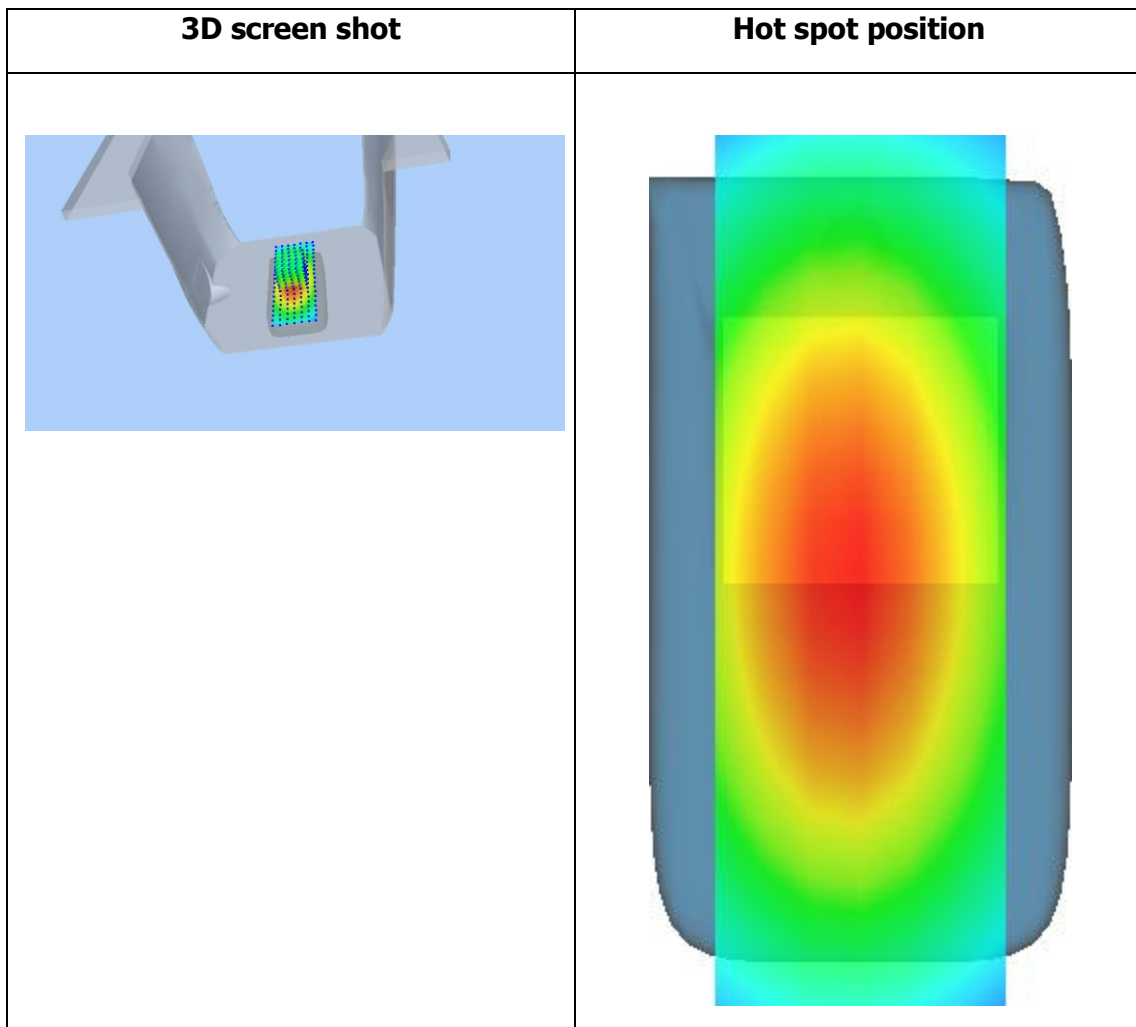
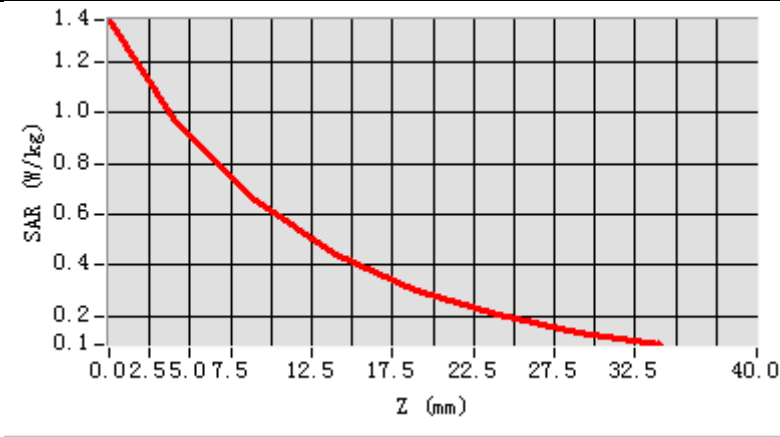


Maximum location: X=-1.00, Y=0.00

SAR Peak: 1.37 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.615004 |
| SAR 1g (W/Kg) | 0.970049 |

| | | | | | | | |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 1.3669 | 0.9837 | 0.6529 | 0.4412 | 0.2993 | 0.2017 | 0.1343 |



MEASUREMENT 3

BODY

Type: Validation measurement (Complete)

Date of measurement: 15/6/2017

Measurement duration: 11 minutes 27 seconds

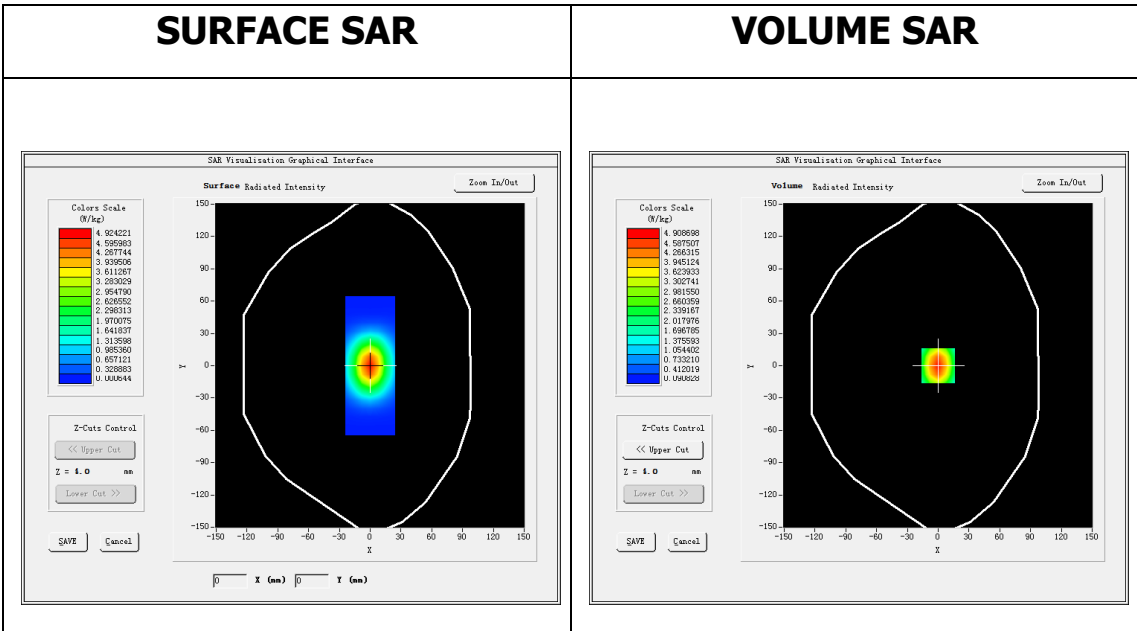
A. Experimental conditions.

| | |
|-------------------------------|--|
| <u>Area Scan</u> | <u>dx=8mm dy=8mm</u> |
| <u>ZoomScan</u> | <u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u> |
| <u>Phantom</u> | <u>Validation plane</u> |
| <u>Device Position</u> | <u>Dipole</u> |
| <u>Band</u> | <u>CW1800</u> |
| <u>Channels</u> | <u>Middle</u> |
| <u>Signal</u> | <u>CW (Crest factor: 1.0)</u> |

B. SAR Measurement Results

Middle Band SAR (Channel -1):

| | |
|---|-------------|
| Frequency (MHz) | 1800.000000 |
| Relative permittivity (real part) | 53.112099 |
| Relative permittivity (imaginary part) | 15.286700 |
| Conductivity (S/m) | 1.528670 |
| Variation (%) | -0.410000 |

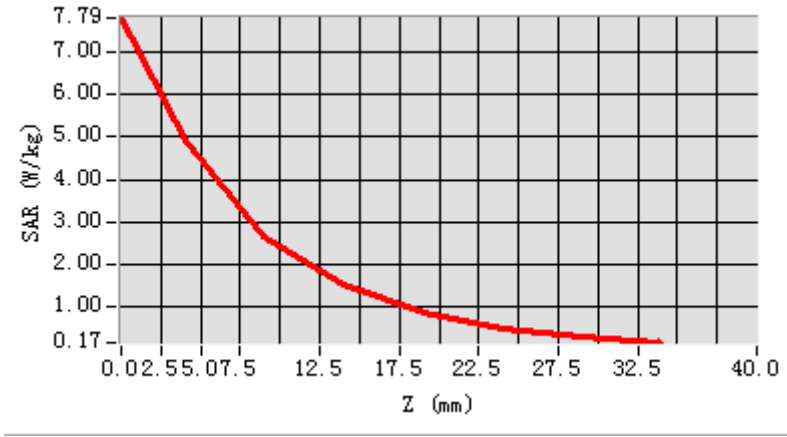


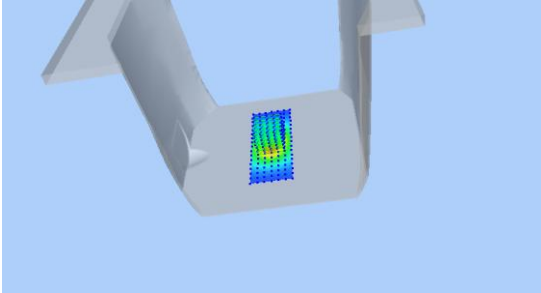
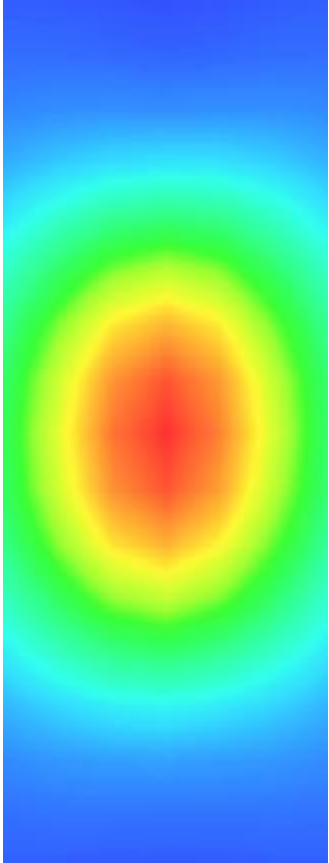
Maximum location: X=0.00, Y=0.00

SAR Peak: 7.72 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 2.171888 |
| SAR 1g (W/Kg) | 4.156173 |

| | | | | | | | |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 7.7941 | 4.9087 | 2.6873 | 1.5154 | 0.8724 | 0.5075 | 0.2958 |



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

MEASUREMENT 4

HEAD

Type: Validation measurement (Complete)

Date of measurement: 15/6/2017

Measurement duration: 10 minutes 21 seconds

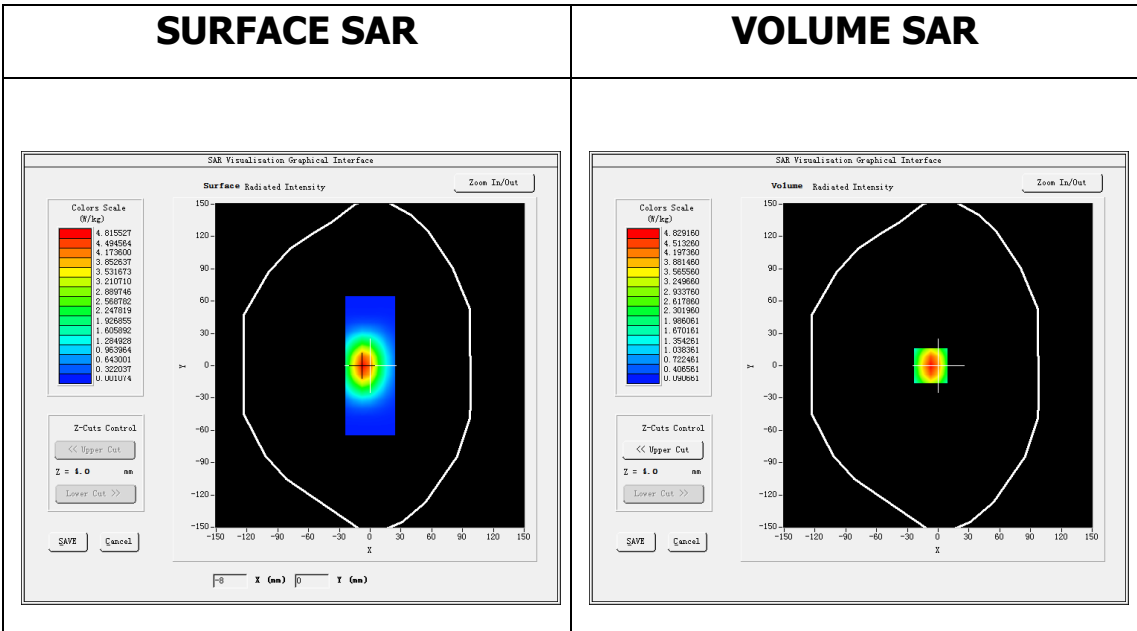
A. Experimental conditions.

| | |
|-------------------------------|--|
| <u>Area Scan</u> | <u>dx=8mm dy=8mm</u> |
| <u>ZoomScan</u> | <u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u> |
| <u>Phantom</u> | <u>Validation plane</u> |
| <u>Device Position</u> | <u>Dipole</u> |
| <u>Band</u> | <u>CW1800</u> |
| <u>Channels</u> | <u>Middle</u> |
| <u>Signal</u> | <u>CW (Crest factor: 1.0)</u> |

B. SAR Measurement Results

Middle Band SAR (Channel -1):

| | |
|---|-------------|
| Frequency (MHz) | 1800.000000 |
| Relative permittivity (real part) | 39.812099 |
| Relative permittivity (imaginary part) | 14.387682 |
| Conductivity (S/m) | 1.441670 |
| Variation (%) | -1.090000 |

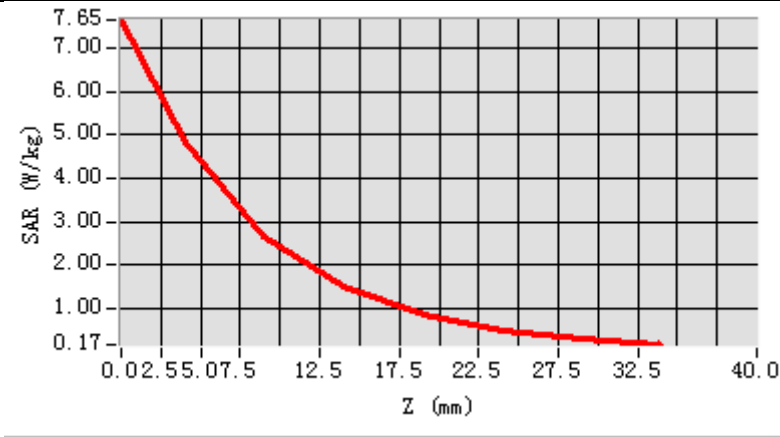


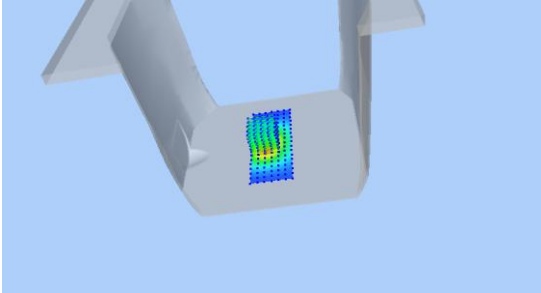
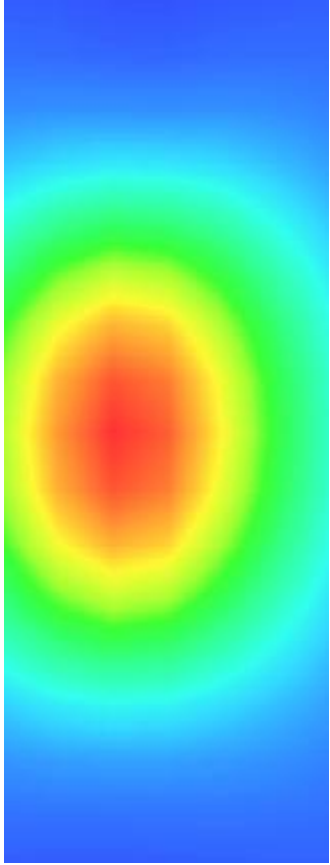
Maximum location: X=-7.00, Y=0.00

SAR Peak: 7.62 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 2.060294 |
| SAR 1g (W/Kg) | 3.998394 |

| | | | | | | | |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 7.6530 | 4.8292 | 2.6475 | 1.4988 | 0.8584 | 0.4963 | 0.2899 |



| 3D screen shot | Hot spot position |
|---|--|
|  <p>A 3D perspective view of a grey, L-shaped device. A small rectangular area on the horizontal part of the device is highlighted with a color gradient from blue to red, representing the hot spot location.</p> |  <p>A 2D vertical cross-section visualization of the hot spot. It shows a circular gradient where the center is red (highest intensity) and the intensity decreases through yellow, green, and cyan to blue (lowest intensity) at the edges.</p> |

MEASUREMENT 5

BODY

Type: Validation measurement (Complete)

Date of measurement: 24/5/2017

Measurement duration: 10 minutes 57 seconds

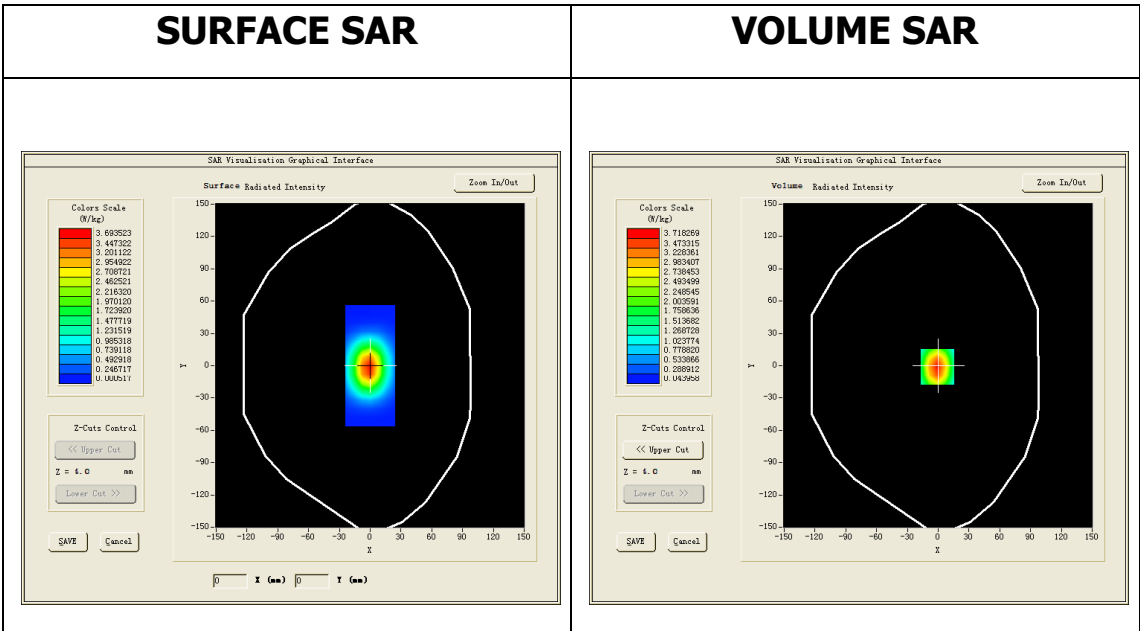
A. Experimental conditions.

| | |
|-------------------------------|--|
| <u>Area Scan</u> | <u>dx=8mm dy=8mm</u> |
| <u>ZoomScan</u> | <u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u> |
| <u>Phantom</u> | <u>Validation plane</u> |
| <u>Device Position</u> | <u>Dipole</u> |
| <u>Band</u> | <u>CW1900</u> |
| <u>Channels</u> | <u>Middle</u> |
| <u>Signal</u> | <u>CW (Crest factor: 1.0)</u> |

B. SAR Measurement Results

Middle Band SAR (Channel -1):

| | |
|---|-------------|
| Frequency (MHz) | 1900.000000 |
| Relative permittivity (real part) | 53.365299 |
| Relative permittivity (imaginary part) | 14.757600 |
| Conductivity (S/m) | 1.557747 |
| Variation (%) | -0.450000 |

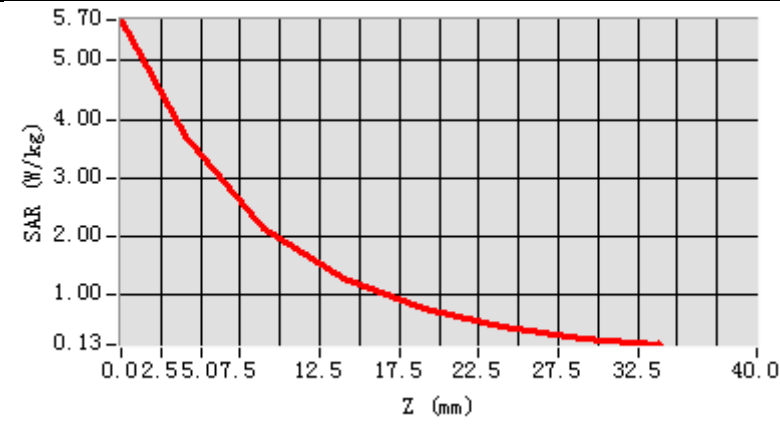


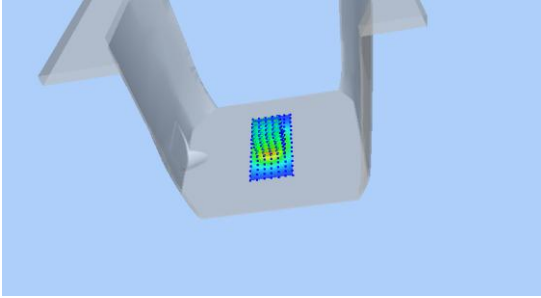
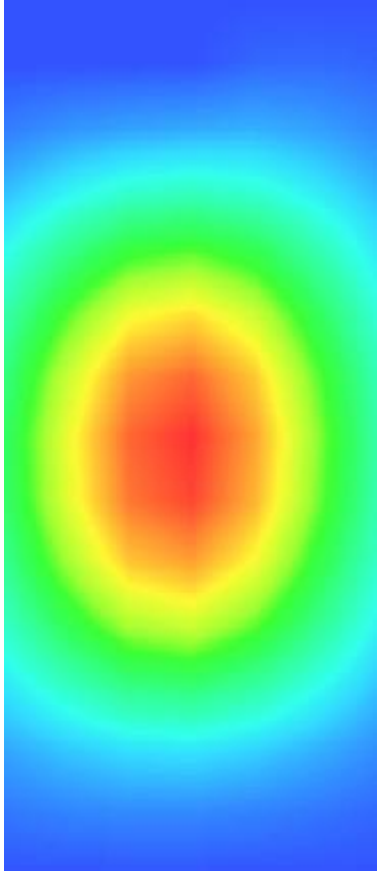
Maximum location: X=-1.00, Y=-1.00

SAR Peak: 6.26 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 2.093533 |
| SAR 1g (W/Kg) | 3.932904 |

| | | | | | | | |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 5.7034 | 3.7183 | 2.1347 | 1.2560 | 0.7338 | 0.4260 | 0.2429 |



| 3D screen shot | Hot spot position |
|--|---|
|  <p>A 3D perspective view of a grey, L-shaped device. A small rectangular area on the horizontal part of the device is highlighted with a color-coded grid, representing the hot spot location.</p> |  <p>A 2D heatmap showing the spatial distribution of the hot spot. The color scale ranges from blue (low intensity) to red (high intensity), with a central red core surrounded by concentric rings of yellow, green, and cyan.</p> |

MEASUREMENT 6

HEAD

Type: Validation measurement (Complete)

Date of measurement: 24/5/2017

Measurement duration: 11 minutes 6 seconds

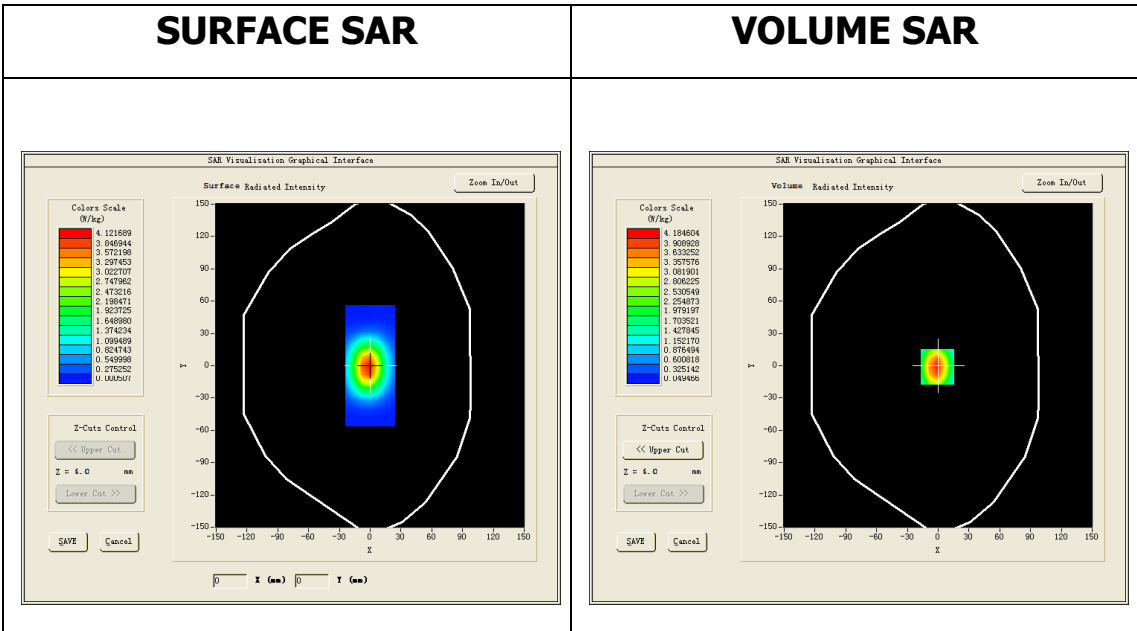
A. Experimental conditions.

| | |
|-------------------------------|--|
| <u>Area Scan</u> | <u>dx=8mm dy=8mm</u> |
| <u>ZoomScan</u> | <u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u> |
| <u>Phantom</u> | <u>Validation plane</u> |
| <u>Device Position</u> | <u>Dipole</u> |
| <u>Band</u> | <u>CW1900</u> |
| <u>Channels</u> | <u>Middle</u> |
| <u>Signal</u> | <u>CW (Crest factor: 1.0)</u> |

B. SAR Measurement Results

Middle Band SAR (Channel -1):

| | |
|---|-------------|
| Frequency (MHz) | 1900.000000 |
| Relative permittivity (real part) | 39.976398 |
| Relative permittivity (imaginary part) | 13.386300 |
| Conductivity (S/m) | 1.412998 |
| Variation (%) | -0.040000 |

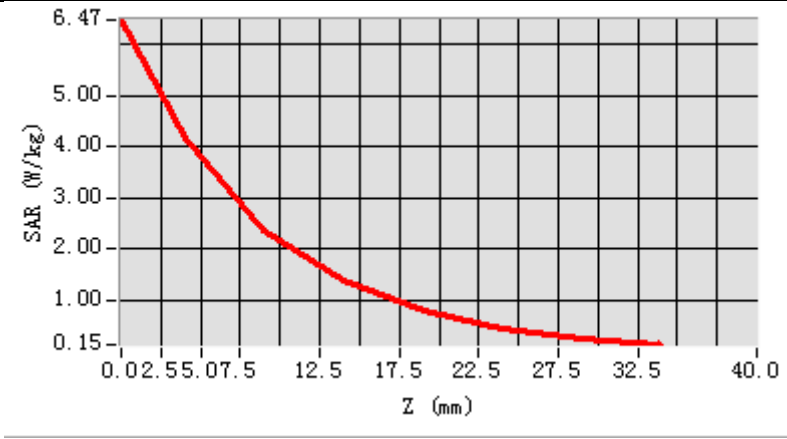


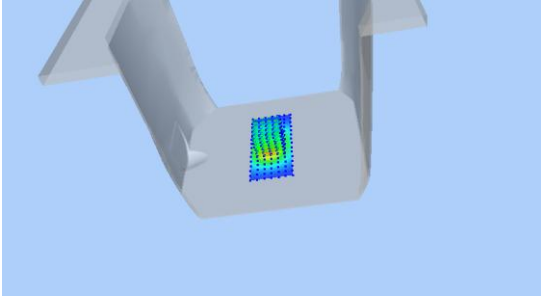
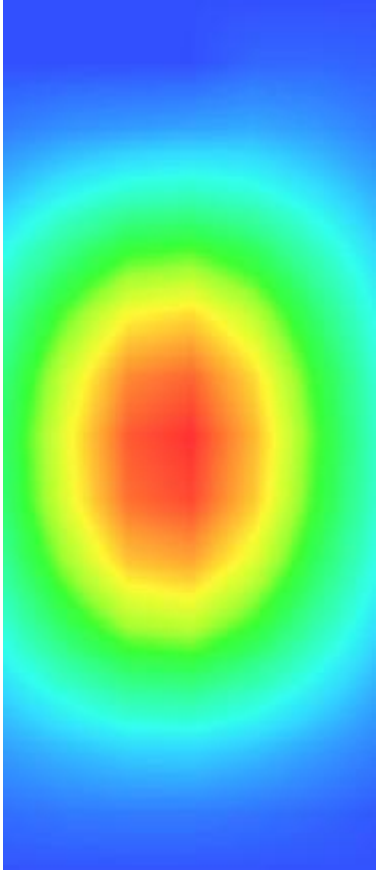
Maximum location: X=-1.00, Y=-1.00

SAR Peak: 6.48 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 2.107104 |
| SAR 1g (W/Kg) | 3.997625 |

| | | | | | | | |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 6.4693 | 4.1846 | 2.3780 | 1.3892 | 0.8084 | 0.4680 | 0.2662 |



| 3D screen shot | Hot spot position |
|---|---|
|  <p>A 3D perspective view of a grey, L-shaped device. A small rectangular area on the inner surface of the 'L' is highlighted with a color-coded grid, representing the hot spot location.</p> |  <p>A 2D heatmap visualization of the hot spot. It shows a central red region (highest intensity) surrounded by concentric rings of yellow, green, and cyan, all set against a dark blue background (lowest intensity).</p> |

MEASUREMENT 7

BODY

Type: Validation measurement (Complete)

Date of measurement: 17/6/2017

Measurement duration: 9 minutes 46 seconds

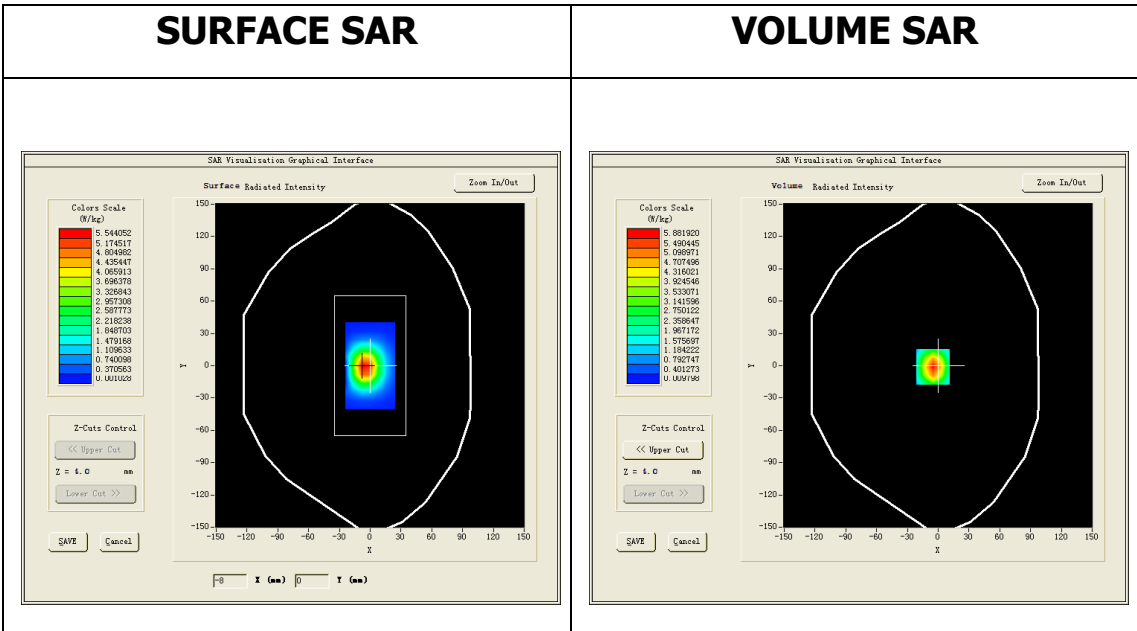
A. Experimental conditions.

| | |
|-------------------------------|--|
| <u>Area Scan</u> | <u>dx=8mm dy=8mm</u> |
| <u>ZoomScan</u> | <u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u> |
| <u>Phantom</u> | <u>Validation plane</u> |
| <u>Device Position</u> | <u>Dipole</u> |
| <u>Band</u> | <u>CW2450</u> |
| <u>Channels</u> | <u>Middle</u> |
| <u>Signal</u> | <u>CW (Crest factor: 1.0)</u> |

B. SAR Measurement Results

Middle Band SAR (Channel -1):

| | |
|---|-------------|
| Frequency (MHz) | 2450.000000 |
| Relative permittivity (real part) | 52.735699 |
| Relative permittivity (imaginary part) | 14.017300 |
| Conductivity (S/m) | 1.907910 |
| Variation (%) | 0.390000 |

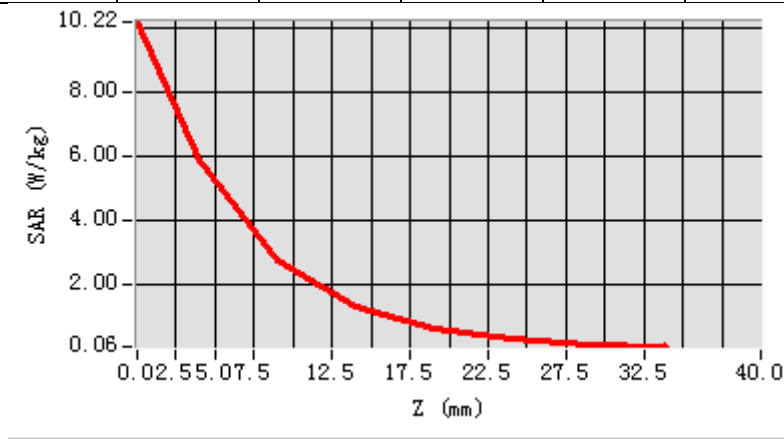


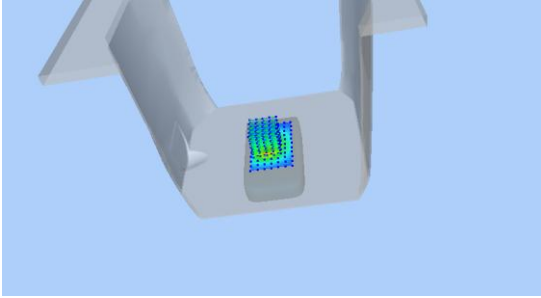
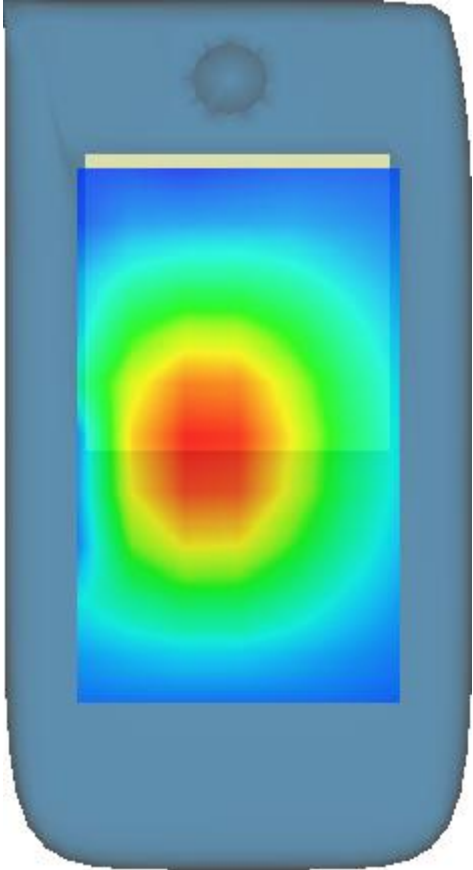
Maximum location: X=-5.00, Y=-1.00

SAR Peak: 10.96 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 2.333453 |
| SAR 1g (W/Kg) | 5.433343 |

| | | | | | | | |
|-------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 10.2188 | 5.8819 | 2.7478 | 1.3151 | 0.6266 | 0.2969 | 0.1341 |



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

MEASUREMENT 8

HEAD

Type: Validation measurement (Complete)

Date of measurement: 17/6/2017

Measurement duration: 9 minutes 46 seconds

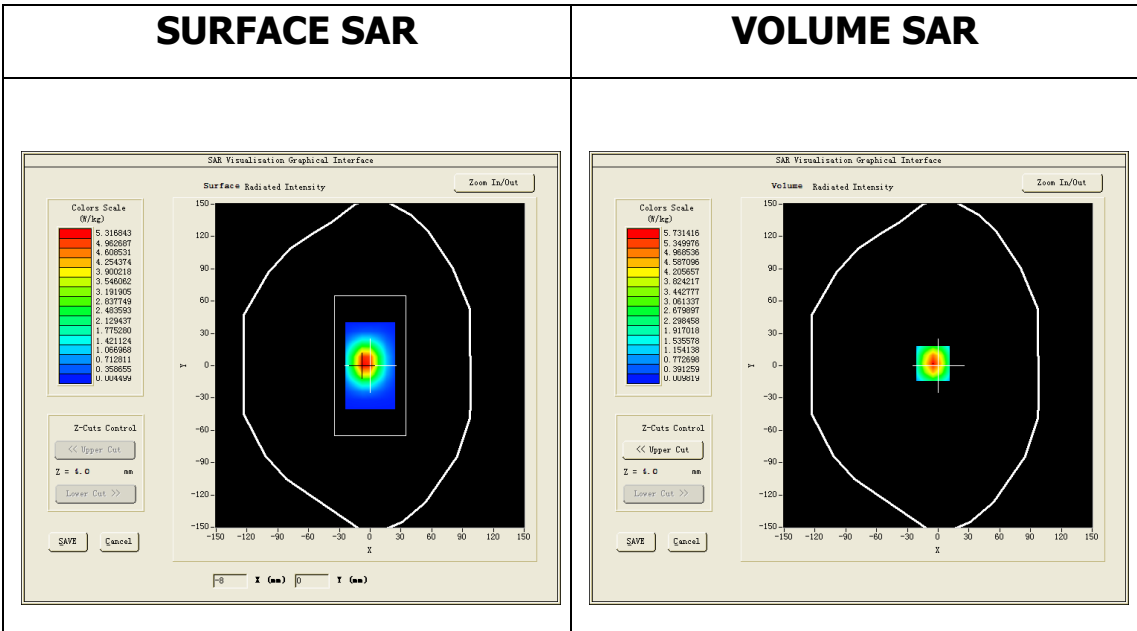
A. Experimental conditions.

| | |
|-------------------------------|--|
| <u>Area Scan</u> | <u>dx=8mm dy=8mm</u> |
| <u>ZoomScan</u> | <u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u> |
| <u>Phantom</u> | <u>Validation plane</u> |
| <u>Device Position</u> | <u>Dipole</u> |
| <u>Band</u> | <u>CW2450</u> |
| <u>Channels</u> | <u>Middle</u> |
| <u>Signal</u> | <u>CW (Crest factor: 1.0)</u> |

B. SAR Measurement Results

Middle Band SAR (Channel -1):

| | |
|---|-------------|
| Frequency (MHz) | 2450.000000 |
| Relative permittivity (real part) | 39.235699 |
| Relative permittivity (imaginary part) | 12.917300 |
| Conductivity (S/m) | 1.758188 |
| Variation (%) | 2.820000 |

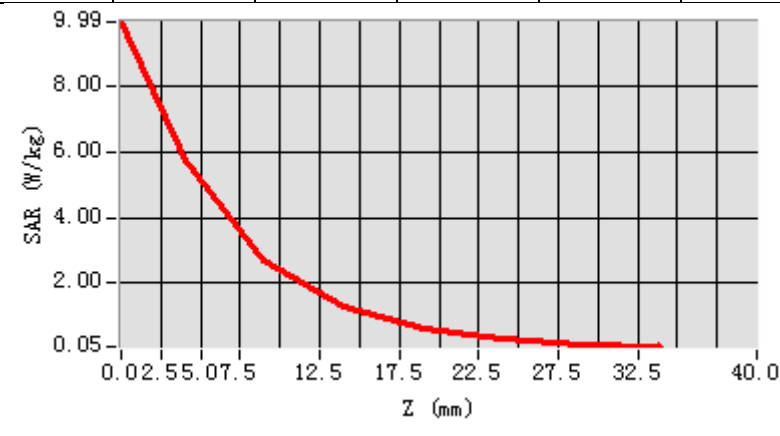


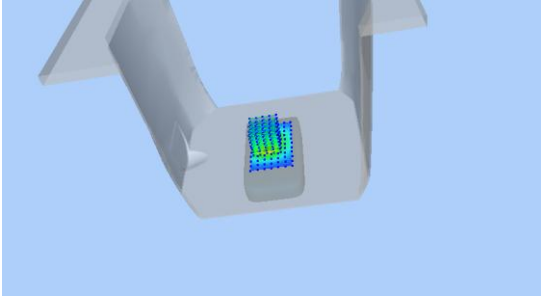
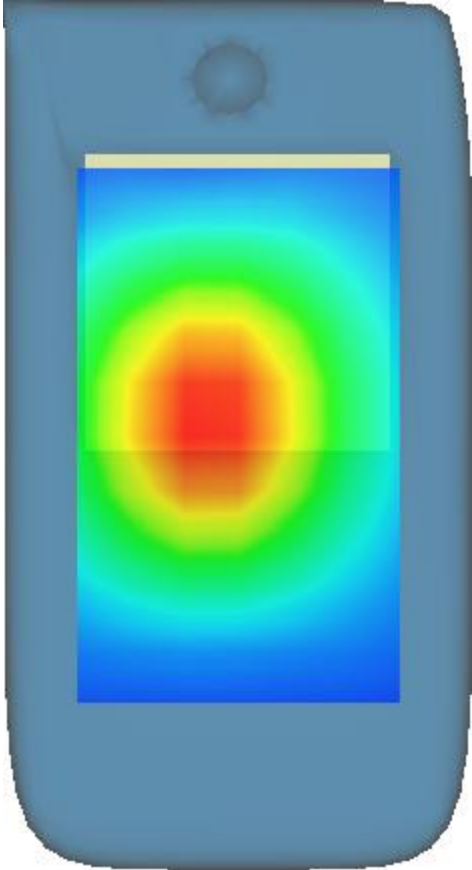
Maximum location: X=-5.00, Y=2.00

SAR Peak: 9.92 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 2.452895 |
| SAR 1g (W/Kg) | 5.393069 |

| | | | | | | | |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 9.9915 | 5.7314 | 2.6626 | 1.2722 | 0.6047 | 0.2852 | 0.1274 |



| 3D screen shot | Hot spot position |
|--|---|
|  <p>A 3D perspective view of a mobile phone antenna array. The antenna is a rectangular grid of small elements. A color-coded SAR distribution is overlaid on the antenna, showing a central hot spot in red and yellow, transitioning to green and blue towards the edges.</p> |  <p>A 2D top-down view of a mobile phone. The screen area is highlighted with a color-coded SAR distribution. The distribution is circular and centered on the screen, with a red core, followed by yellow, green, and blue outer rings, indicating the location of the maximum SAR (hot spot).</p> |

MEASUREMENT 9

BODY

Type: Validation measurement (Complete)

Date of measurement: 8/6/2017

Measurement duration: 10 minutes 13 seconds

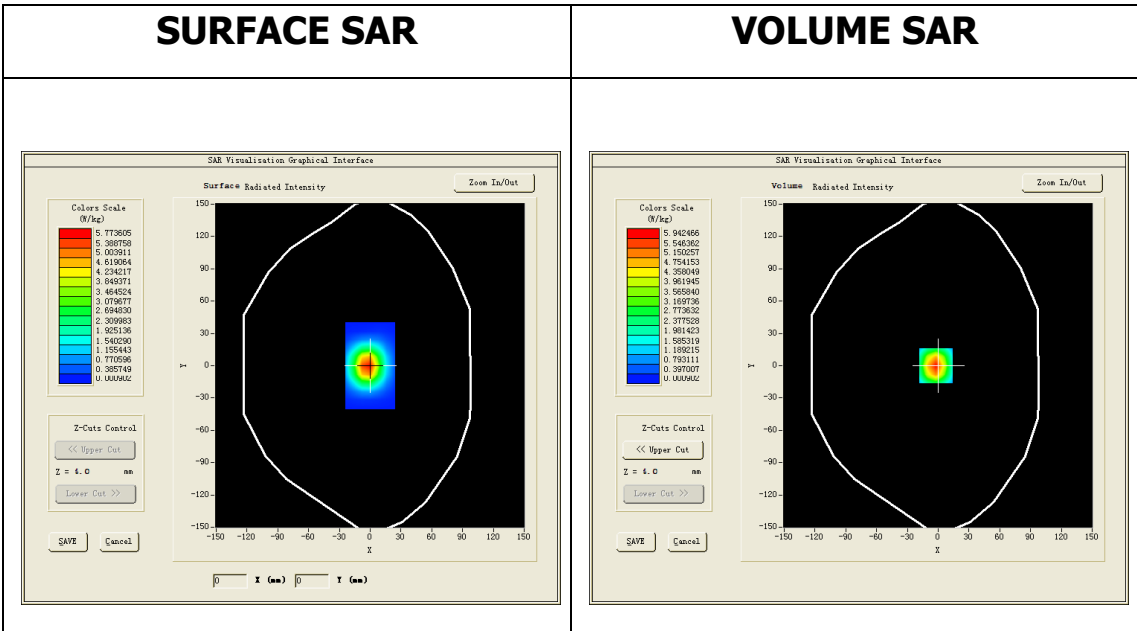
A. Experimental conditions.

| | |
|-------------------------------|--|
| <u>Area Scan</u> | <u>dx=8mm dy=8mm</u> |
| <u>ZoomScan</u> | <u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u> |
| <u>Phantom</u> | <u>Validation plane</u> |
| <u>Device Position</u> | <u>Dipole</u> |
| <u>Band</u> | <u>CW2600</u> |
| <u>Channels</u> | <u>Middle</u> |
| <u>Signal</u> | <u>CW (Crest factor: 1.0)</u> |

B. SAR Measurement Results

Middle Band SAR (Channel -1):

| | |
|---|-------------|
| Frequency (MHz) | 2600.000000 |
| Relative permittivity (real part) | 52.007900 |
| Relative permittivity (imaginary part) | 14.458500 |
| Conductivity (S/m) | 2.088450 |
| Variation (%) | -0.220000 |

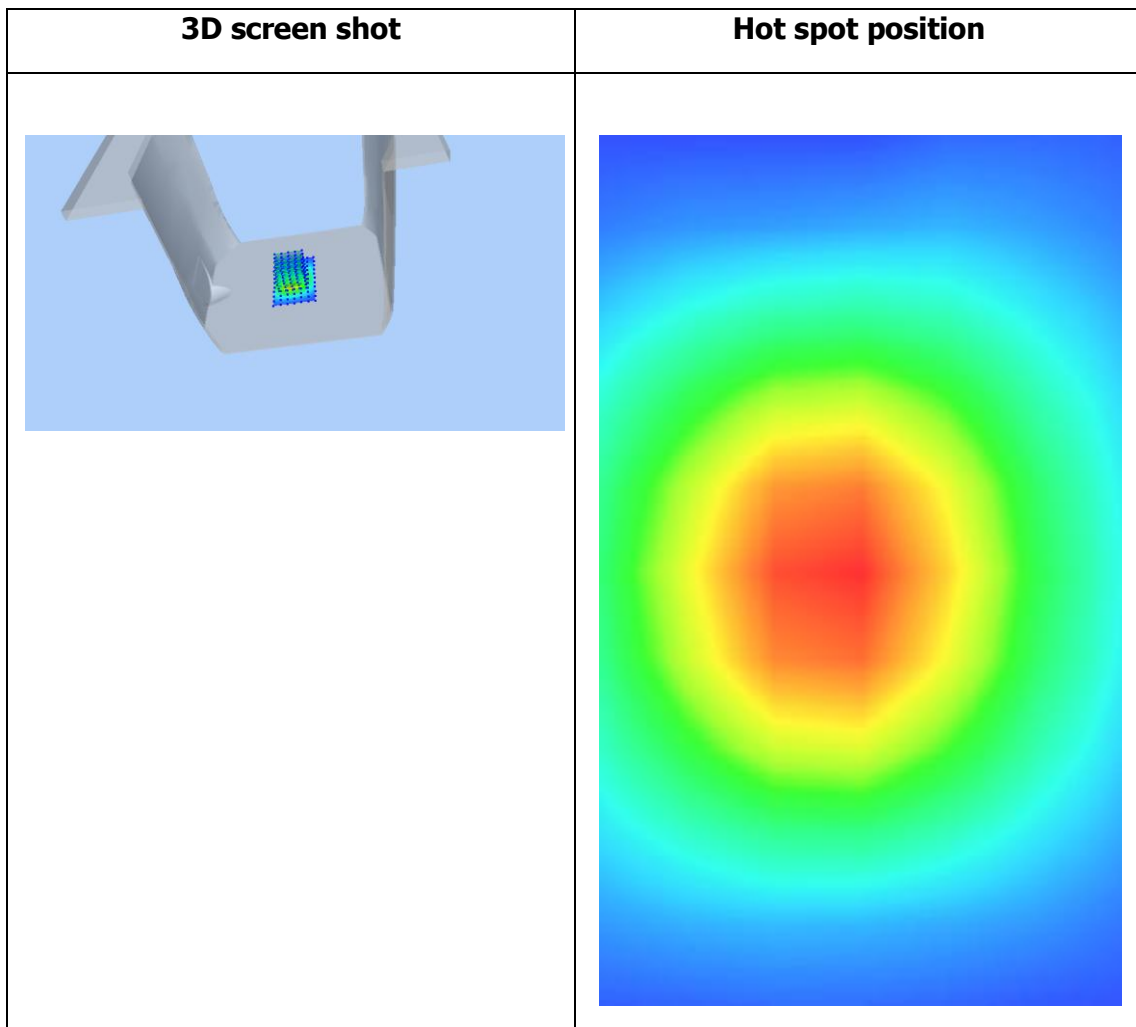
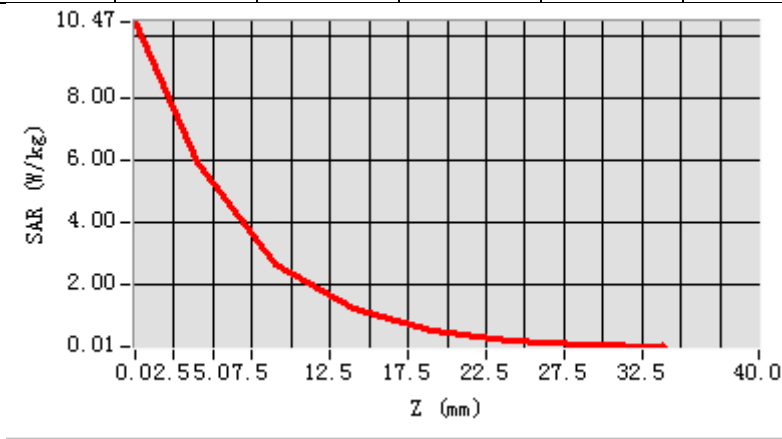


Maximum location: X=-2.00, Y=0.00

SAR Peak: 10.74 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 2.559674 |
| SAR 1g (W/Kg) | 5.786435 |

| | | | | | | | |
|-------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 10.4745 | 5.9425 | 2.6827 | 1.2126 | 0.5266 | 0.2069 | 0.0714 |



MEASUREMENT 10

HEAD

Type: Validation measurement (Complete)

Date of measurement: 8/6/2017

Measurement duration: 10 minutes 12 seconds

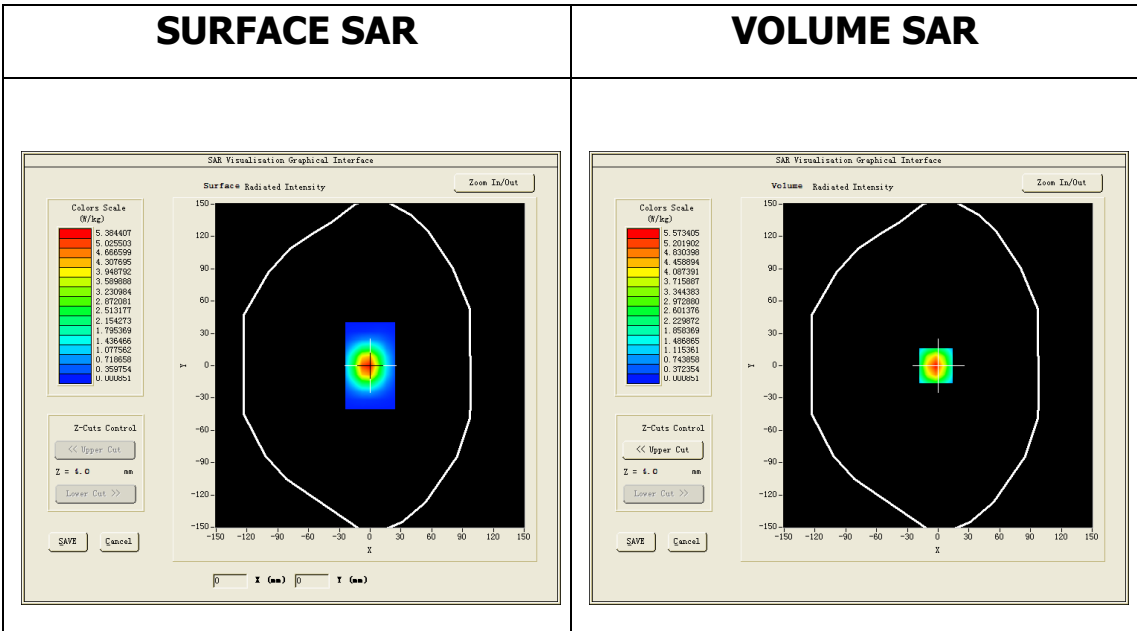
A. Experimental conditions.

| | |
|-------------------------------|--|
| <u>Area Scan</u> | <u>dx=8mm dy=8mm</u> |
| <u>ZoomScan</u> | <u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u> |
| <u>Phantom</u> | <u>Validation plane</u> |
| <u>Device Position</u> | <u>Dipole</u> |
| <u>Band</u> | <u>CW2600</u> |
| <u>Channels</u> | <u>Middle</u> |
| <u>Signal</u> | <u>CW (Crest factor: 1.0)</u> |

B. SAR Measurement Results

Middle Band SAR (Channel -1):

| | |
|---|-------------|
| Frequency (MHz) | 2600.000000 |
| Relative permittivity (real part) | 38.979599 |
| Relative permittivity (imaginary part) | 13.989700 |
| Conductivity (S/m) | 2.020734 |
| Variation (%) | 0.250000 |

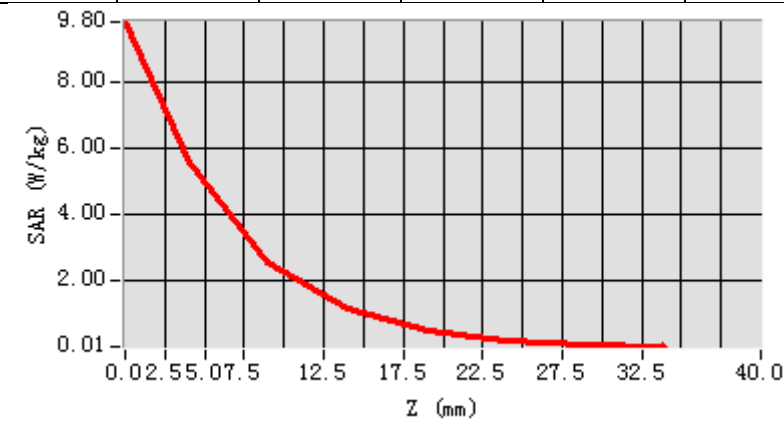


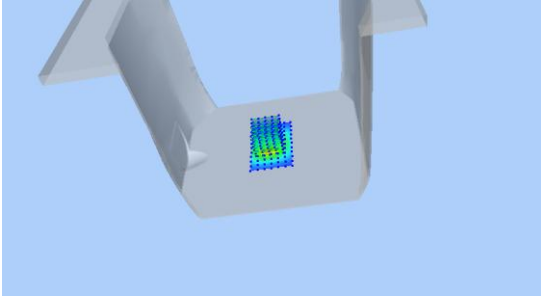
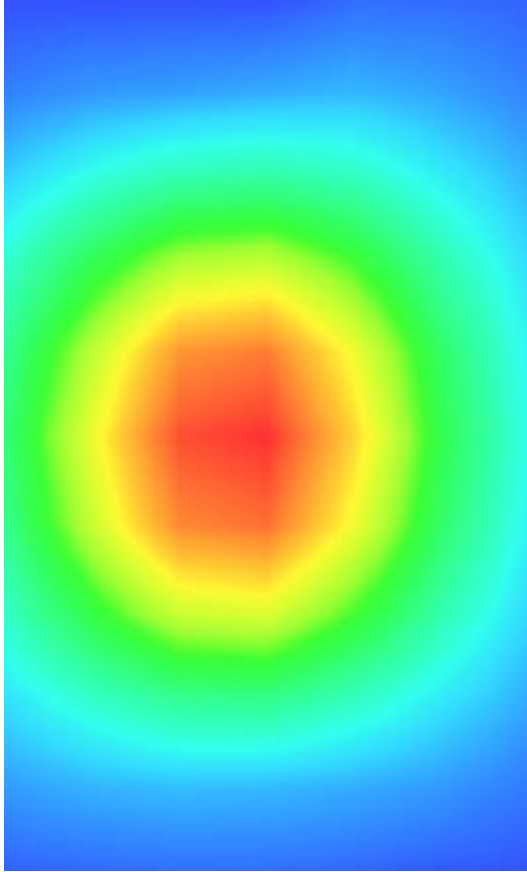
Maximum location: X=-2.00, Y=0.00

SAR Peak: 9.73 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 2.342963 |
| SAR 1g (W/Kg) | 5.318259 |

| | | | | | | | |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 9.8044 | 5.5734 | 2.5229 | 1.1430 | 0.4950 | 0.1964 | 0.0689 |



| 3D screen shot | Hot spot position |
|---|---|
|  <p>A 3D perspective view of a grey, L-shaped device. A small, rectangular area on the horizontal part of the device is highlighted with a multi-colored grid (blue, green, yellow, red), indicating the location of the hot spot.</p> |  <p>A 2D heatmap visualization of the hot spot. The color scale ranges from blue (low SAR) to red (high SAR). The highest SAR region (red) is concentrated in the center of the device's horizontal section, surrounded by concentric rings of yellow, green, and cyan, indicating the spatial distribution of the electromagnetic field.</p> |

MEASUREMENT 11

HEAD

Type: Validation measurement (Complete)

Date of measurement: 17/6/2017

Measurement duration: 28 minutes 56 seconds

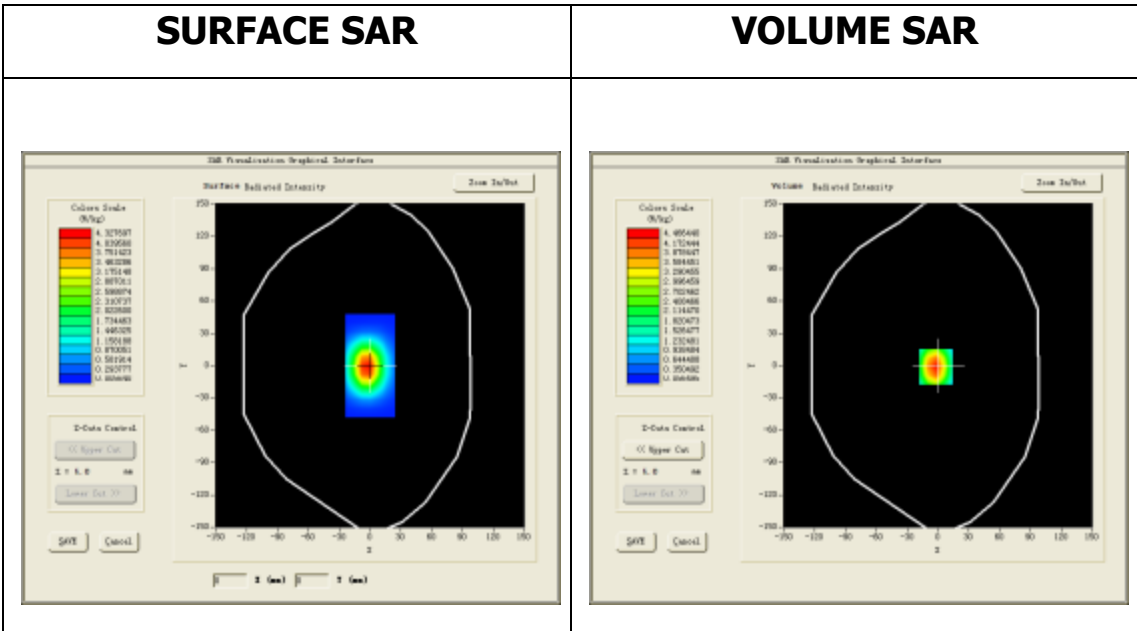
A. Experimental conditions.

| | |
|-------------------------------|--|
| <u>Area Scan</u> | <u>dx=10mm dy=10mm</u> |
| <u>ZoomScan</u> | <u>8x8x7,dx=4mm dy=4mm dz=2mm,Complete</u> |
| <u>Phantom</u> | <u>Validation plane</u> |
| <u>Device Position</u> | <u>Dipole</u> |
| <u>Band</u> | <u>CW5200</u> |
| <u>Channels</u> | <u>Middle</u> |
| <u>Signal</u> | <u>CW (Duty cycle:1:1)</u> |

B. SAR Measurement Results

Middle Band SAR (Channel -1):

| | |
|---|-------------|
| Frequency (MHz) | 5200.000000 |
| Relative permittivity (real part) | 35.553182 |
| Relative permittivity (imaginary part) | 16.497414 |
| Conductivity (S/m) | 4.773841 |
| Variation (%) | -0.070000 |

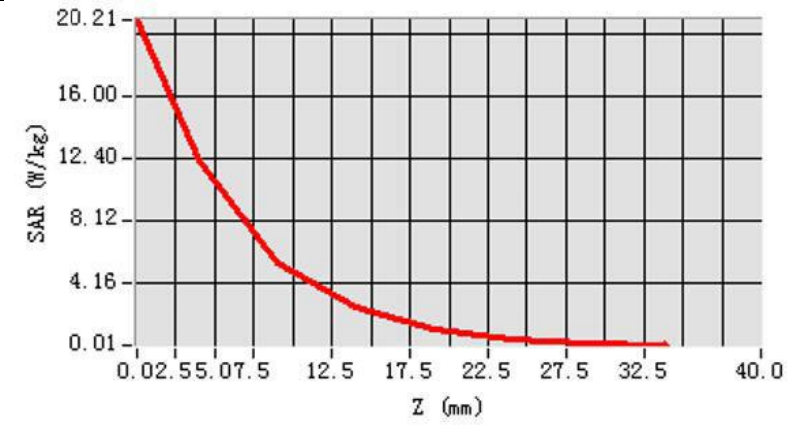


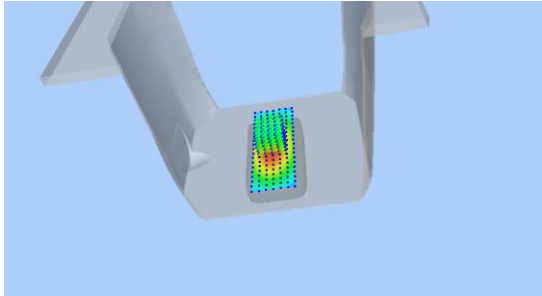
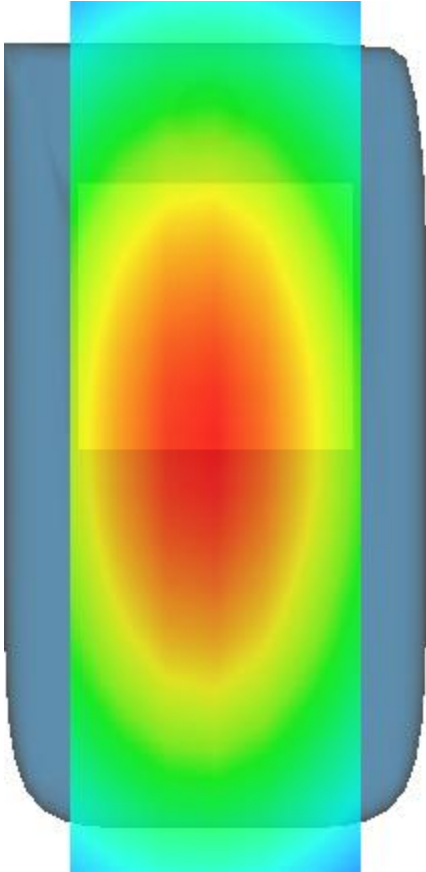
Maximum location: X=-2.00, Y=-1.00

SAR Peak: 20.21W/kg

| | |
|-----------------------|-----------|
| SAR 10g (W/Kg) | 5.556004 |
| SAR 1g (W/Kg) | 17.465049 |

| | | | | | | | |
|-------------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 20.2069 | 16.0125 | 12.4029 | 10.4412 | 8.2993 | 4.2017 | 2.1343 |



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

MEASUREMENT 12

BODY

Type: Validation measurement (Complete)

Date of measurement: 17/6/2017

Measurement duration: 28 minutes 52 seconds

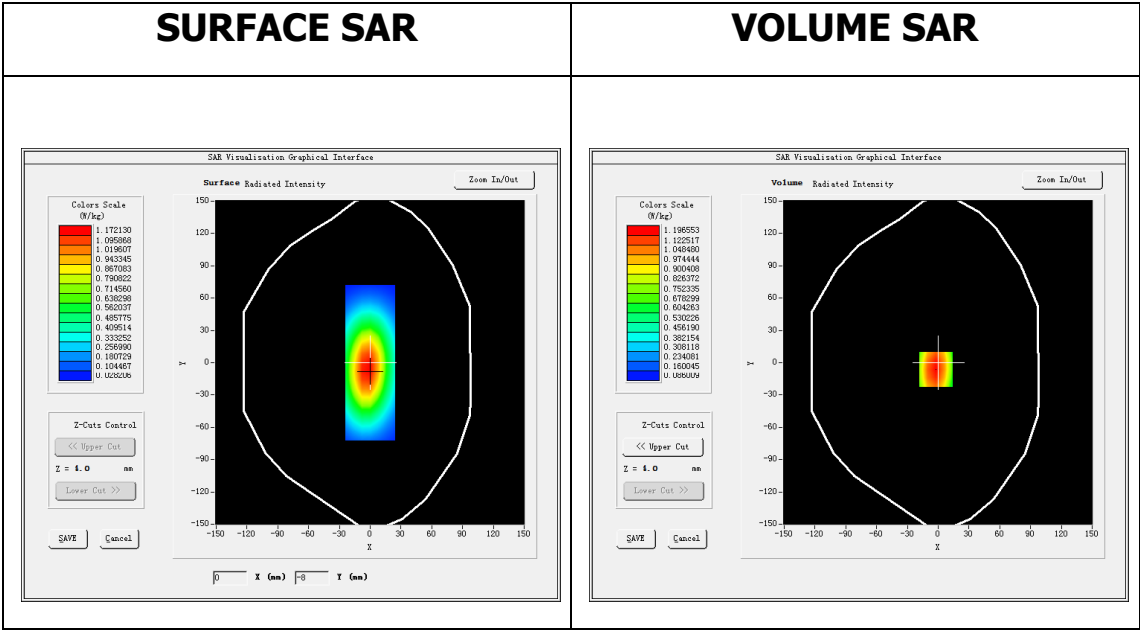
A. Experimental conditions.

| | |
|-------------------------------|--|
| <u>Area Scan</u> | <u>dx=10mm dy=10mm</u> |
| <u>ZoomScan</u> | <u>8x8x7,dx=4mm dy=4mm dz=2mm,Complete</u> |
| <u>Phantom</u> | <u>Validation plane</u> |
| <u>Device Position</u> | <u>Dipole</u> |
| <u>Band</u> | <u>CW5200</u> |
| <u>Channels</u> | <u>Middle</u> |
| <u>Signal</u> | <u>CW (Duty cycle:1:1)</u> |

B. SAR Measurement Results

Middle Band SAR (Channel -1):

| | |
|---|-------------|
| Frequency (MHz) | 5200.000000 |
| Relative permittivity (real part) | 50.422599 |
| Relative permittivity (imaginary part) | 18.202492 |
| Conductivity (S/m) | 5.26371 |
| Variation (%) | 0.270000 |

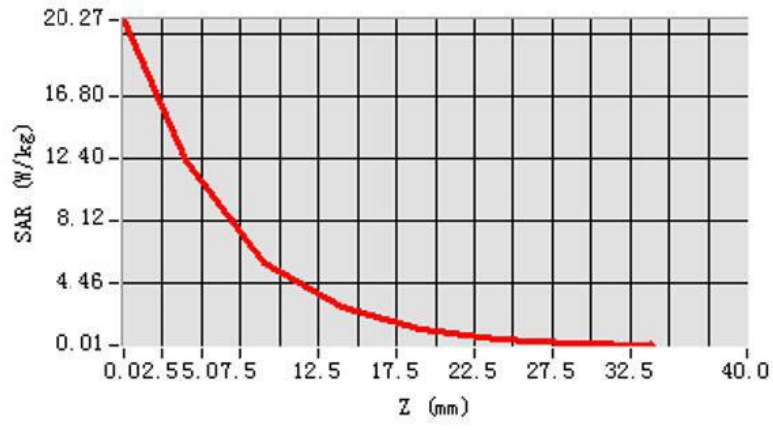


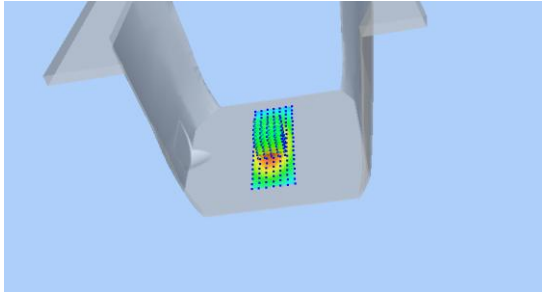
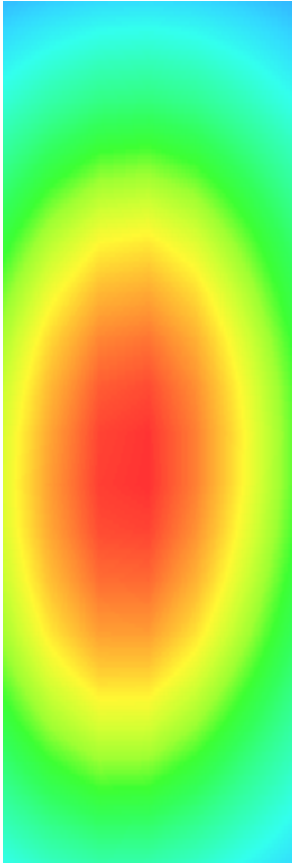
Maximum location: X=-2.00, Y=-6.00

SAR Peak: 20.27 W/kg

| | |
|-----------------------|------------|
| SAR 10g (W/Kg) | 5.964061 |
| SAR 1g (W/Kg) | 16.7183141 |

| | | | | | | | |
|-------------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 20.2711 | 16.1966 | 12.7784 | 10.5196 | 8.1218 | 4.2403 | 1.1660 |



| 3D screen shot | Hot spot position |
|---|--|
|  <p>A 3D perspective view of a grey, L-shaped device. A small rectangular area on the horizontal part of the device is highlighted with a multi-colored grid (red, yellow, green, blue), representing the hot spot position.</p> |  <p>A vertical, oval-shaped heatmap visualization. The center of the oval is red, indicating the highest intensity, and it transitions through yellow and green to cyan at the edges, representing the spatial distribution of the hot spot.</p> |

MEASUREMENT 13

HEAD

Type: Validation measurement (Complete)

Date of measurement: 17/6/2017

Measurement duration: 29 minutes 30 seconds

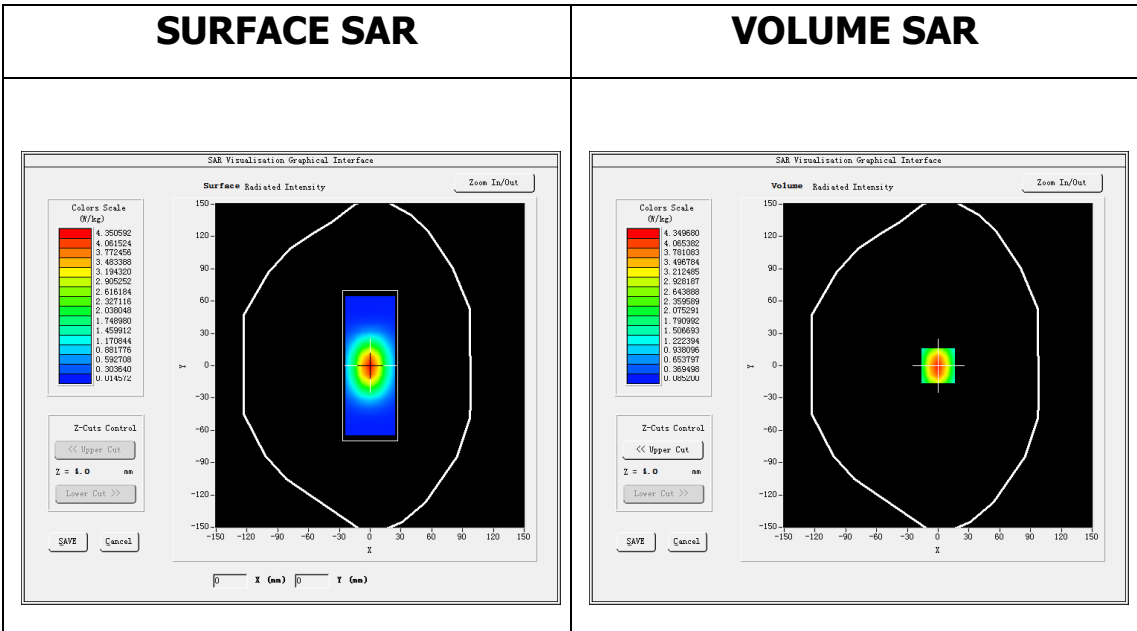
A. Experimental conditions.

| | |
|-------------------------------|--|
| <u>Area Scan</u> | <u>dx=10mm dy=10mm</u> |
| <u>ZoomScan</u> | <u>8x8x7,dx=4mm dy=4mm dz=2mm,Complete</u> |
| <u>Phantom</u> | <u>Validation plane</u> |
| <u>Device Position</u> | <u>Dipole</u> |
| <u>Band</u> | <u>CW5300</u> |
| <u>Channels</u> | <u>Middle</u> |
| <u>Signal</u> | <u>CW (Duty cycle:1:1)</u> |

B. SAR Measurement Results

Middle Band SAR (Channel -1):

| | |
|---|-------------|
| Frequency (MHz) | 5300.000000 |
| Relative permittivity (real part) | 35.343199 |
| Relative permittivity (imaginary part) | 16.591080 |
| Conductivity (S/m) | 4.881334 |
| Variation (%) | -0.620000 |

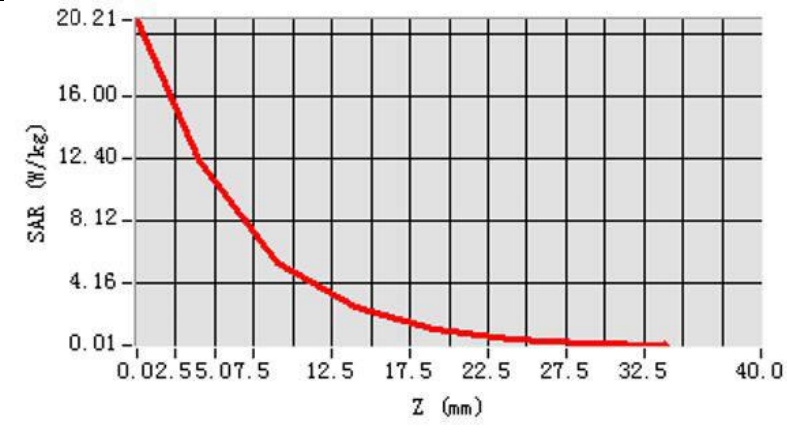


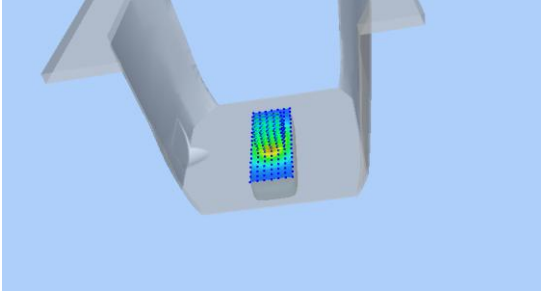
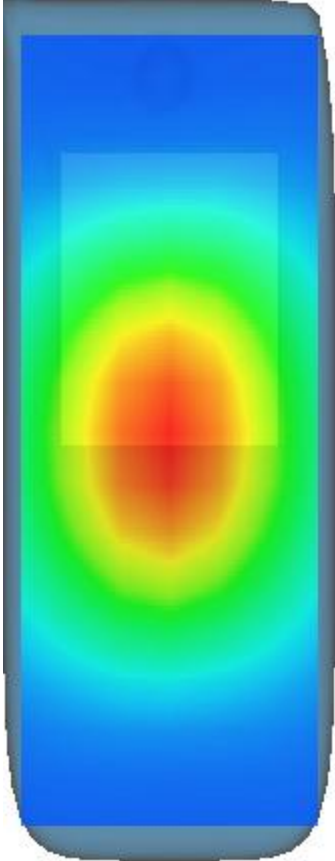
Maximum location: X=0.00, Y=0.00

SAR Peak: 20.21 W/kg

| | |
|-----------------------|-----------|
| SAR 10g (W/Kg) | 6.156204 |
| SAR 1g (W/Kg) | 17.795228 |

| | | | | | | | |
|-------------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 20.2135 | 16.3497 | 12.3796 | 10.3511 | 8.1818 | 4.2574 | 1.2733 |



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

MEASUREMENT 14

BODY

Type: Validation measurement (Complete)

Date of measurement: 17/6/2017

Measurement duration: 30 minutes 36 seconds

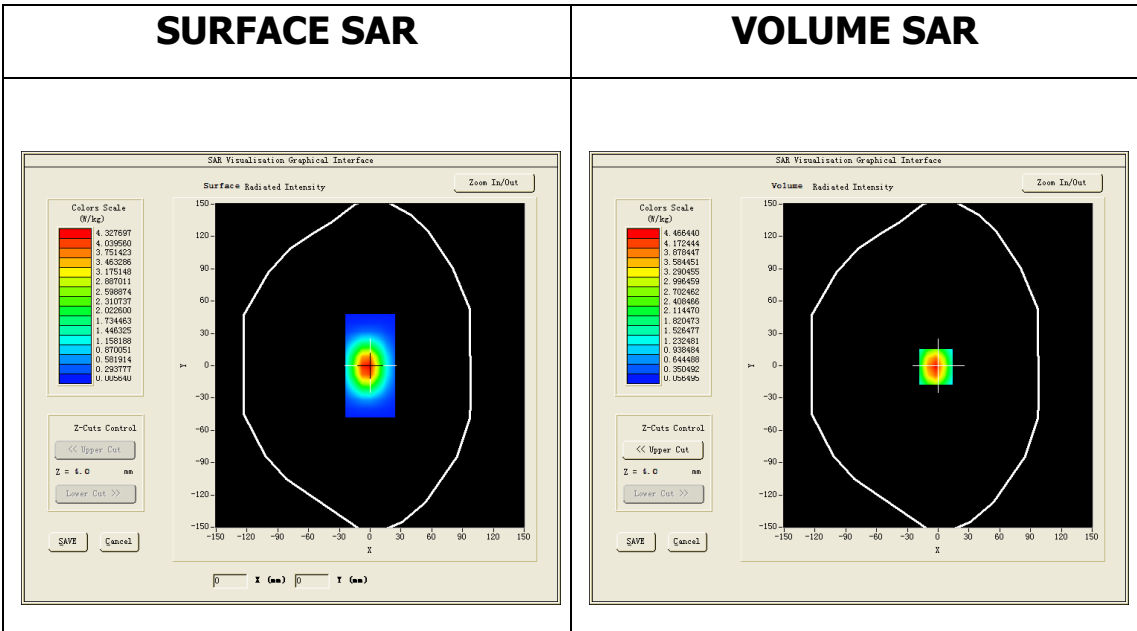
A. Experimental conditions.

| | |
|-------------------------------|--|
| <u>Area Scan</u> | <u>dx=10mm dy=10mm</u> |
| <u>ZoomScan</u> | <u>8x8x7,dx=4mm dy=4mm dz=2mm,Complete</u> |
| <u>Phantom</u> | <u>Validation plane</u> |
| <u>Device Position</u> | <u>Dipole</u> |
| <u>Band</u> | <u>CW5300</u> |
| <u>Channels</u> | <u>Middle</u> |
| <u>Signal</u> | <u>CW (Duty cycle:1:1)</u> |

B. SAR Measurement Results

Middle Band SAR (Channel -1):

| | |
|---|-------------|
| Frequency (MHz) | 5300.000000 |
| Relative permittivity (real part) | 47.944300 |
| Relative permittivity (imaginary part) | 18.167566 |
| Conductivity (S/m) | 5.353919 |
| Variation (%) | -0.350000 |

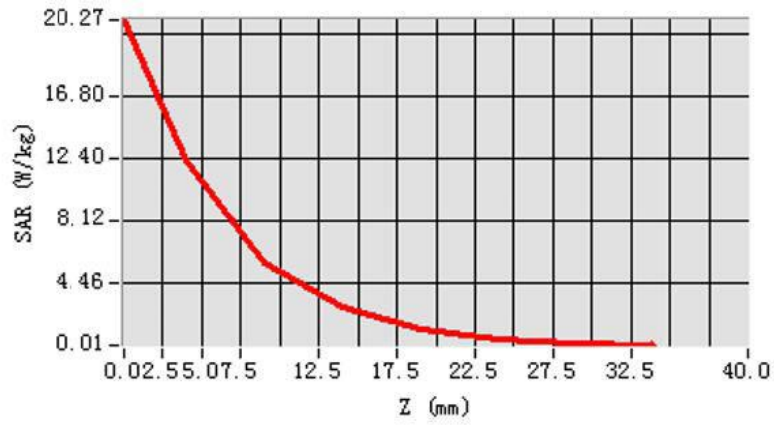


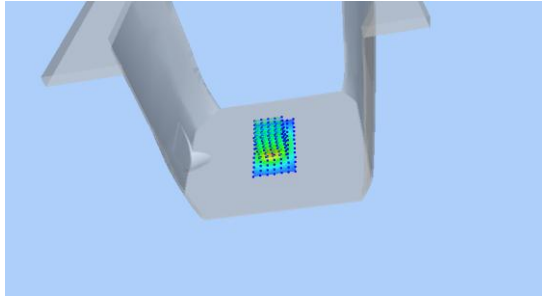
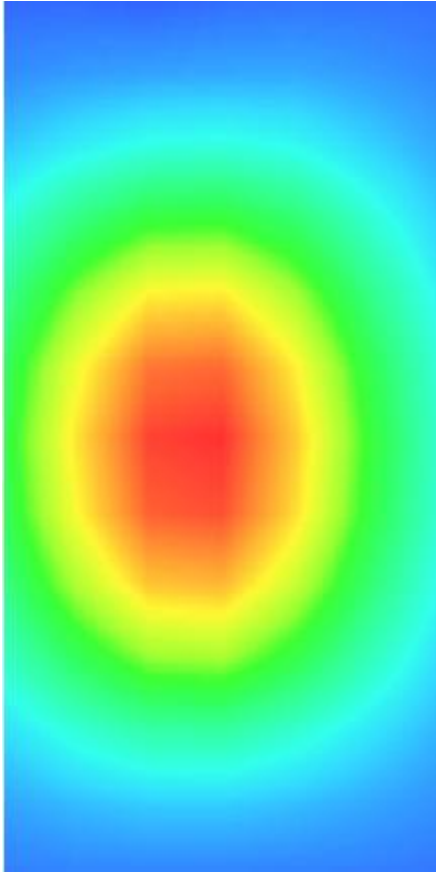
Maximum location: X=-2.00, Y=-1.00

SAR Peak: 20.27 W/kg

| | |
|-----------------------|-----------|
| SAR 10g (W/Kg) | 5.882155 |
| SAR 1g (W/Kg) | 16.537029 |

| | | | | | | | |
|-------------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 20.2697 | 16.4664 | 12.4603 | 10.3992 | 6.7963 | 4.4560 | 1.2601 |



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

MEASUREMENT 15

HEAD

Type: Validation measurement (Complete)

Date of measurement: 17/6/2017

Measurement duration: 29 minutes 59 seconds

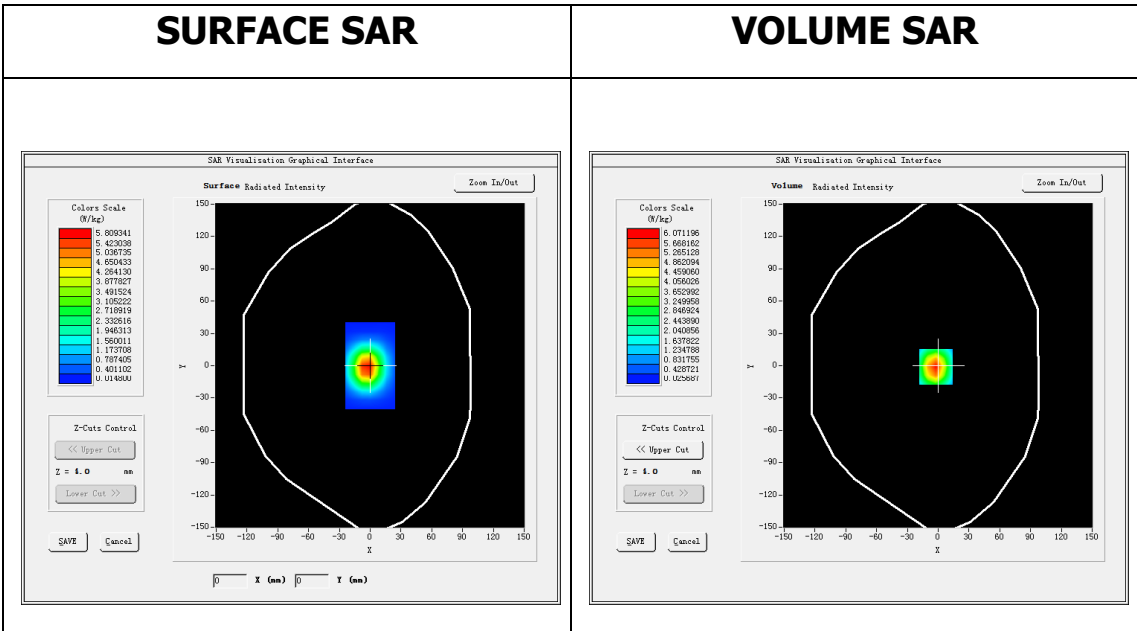
A. Experimental conditions.

| | |
|-------------------------------|--|
| <u>Area Scan</u> | <u>dx=10mm dy=10mm</u> |
| <u>ZoomScan</u> | <u>8x8x7,dx=4mm dy=4mm dz=2mm,Complete</u> |
| <u>Phantom</u> | <u>Validation plane</u> |
| <u>Device Position</u> | <u>Dipole</u> |
| <u>Band</u> | <u>CW5800</u> |
| <u>Channels</u> | <u>Middle</u> |
| <u>Signal</u> | <u>CW (Duty cycle:1:1)</u> |

B. SAR Measurement Results

Middle Band SAR (Channel -1):

| | |
|---|-------------|
| Frequency (MHz) | 5800.000000 |
| Relative permittivity (real part) | 34.225599 |
| Relative permittivity (imaginary part) | 16.160852 |
| Conductivity (S/m) | 5.211844 |
| Variation (%) | 0.050000 |

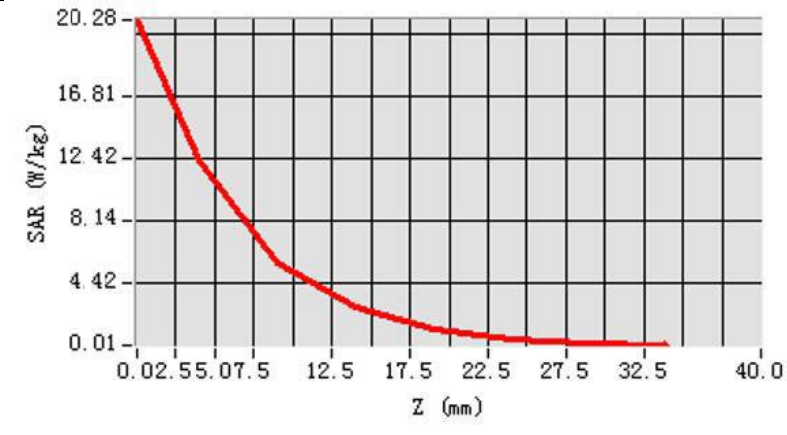


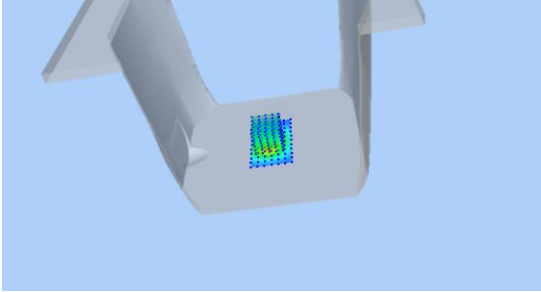
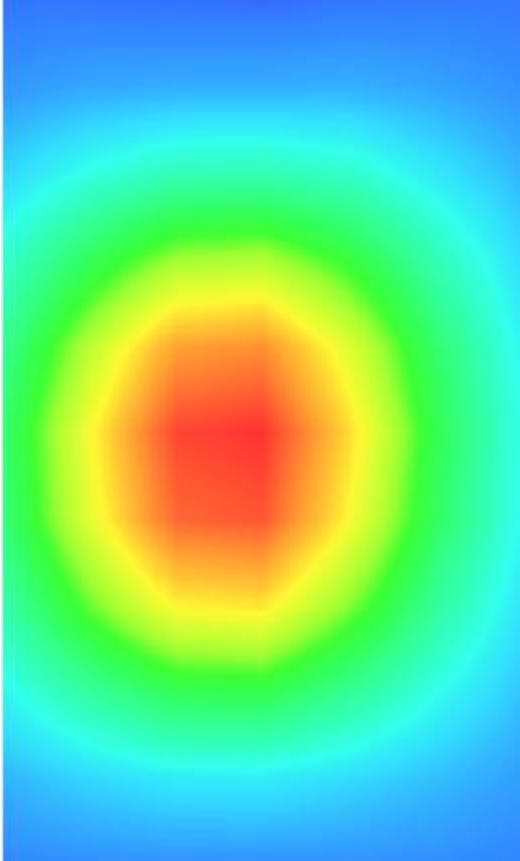
Maximum location: X=-2.00, Y=-1.00

SAR Peak: 20.28 W/kg

| | |
|-----------------------|-----------|
| SAR 10g (W/Kg) | 6.334073 |
| SAR 1g (W/Kg) | 18.519278 |

| | | | | | | | |
|-------------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 20.2755 | 16.2712 | 12.8292 | 9.3565 | 6.6515 | 4.3180 | 1.1553 |



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

MEASUREMENT 16

BODY

Type: Validation measurement (Complete)

Date of measurement: 17/6/2017

Measurement duration: 10 minutes 36 seconds

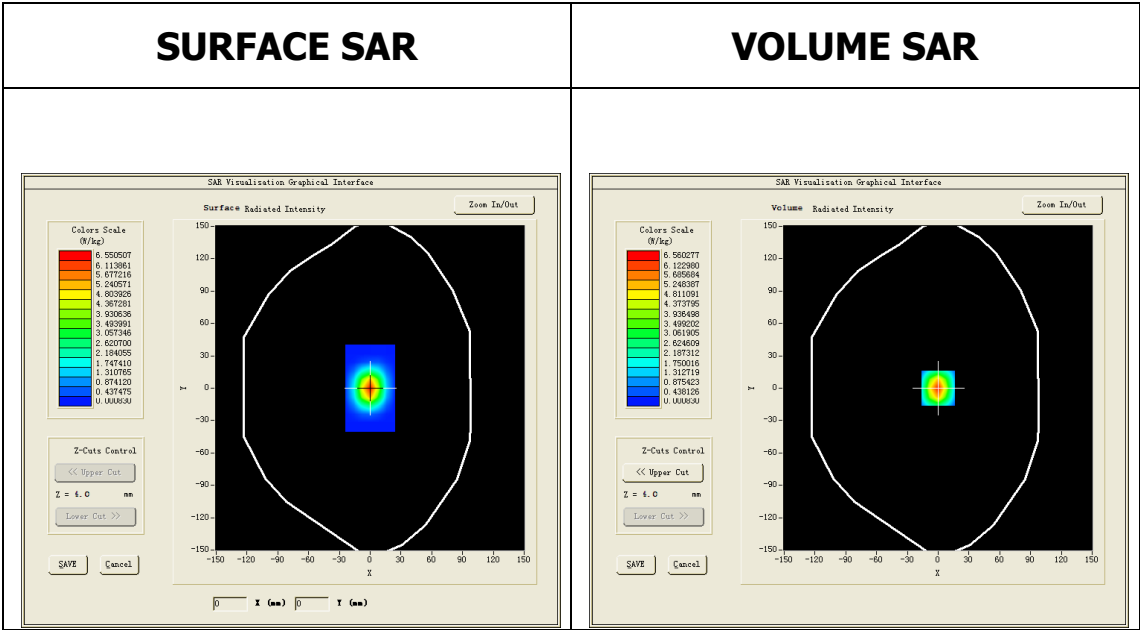
A. Experimental conditions.

| | |
|-------------------------------|--|
| <u>Area Scan</u> | <u>dx=10mm dy=10mm</u> |
| <u>ZoomScan</u> | <u>8x8x7,dx=4mm dy=4mm</u> <u>dz=2mm,Complete</u> |
| <u>Phantom</u> | <u>Validation plane</u> |
| <u>Device Position</u> | <u>Dipole</u> |
| <u>Band</u> | <u>CW5800</u> |
| <u>Channels</u> | <u>Middle</u> |
| <u>Signal</u> | <u>CW (Duty cycle:1:1)</u> |

B. SAR Measurement Results

Middle Band SAR (Channel -1):

| | |
|---|-------------|
| Frequency (MHz) | 5800.000000 |
| Relative permittivity (real part) | 48.090699 |
| Relative permittivity (imaginary part) | 19.043921 |
| Conductivity (S/m) | 6.14163 |
| Variation (%) | 0.010000 |



Maximum location: X=0.00, Y=0.00

SAR Peak: 17.99 W/kg

| | |
|-----------------------|-----------|
| SAR 10g (W/Kg) | 6.080196 |
| SAR 1g (W/Kg) | 17.965831 |

| | | | | | | | |
|-------------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 20.4140 | 16.5603 | 12.8797 | 8.2004 | 4.4226 | 2.1066 | 1.0008 |

