## Appendix B. MEASUREMENT SCANS

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Next to the mouth Test data (Separation Distance is 10 mm)

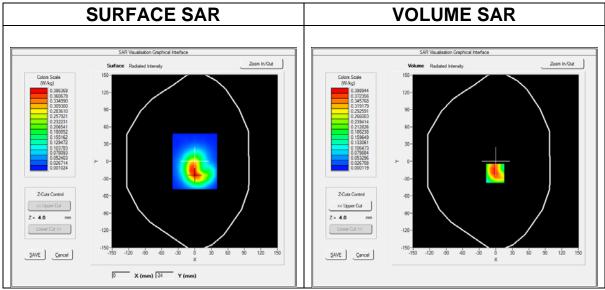
A. Experimental conditions.

| Area Scan              | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <b>Device Position</b> | <u>Body</u>                            |
| <u>Band</u>            | <u>GSM850</u>                          |
| <u>Channels</u>        | <u>Middle</u>                          |
| <u>Signal</u>          | TDMA (Crest factor: 4.1)               |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 189):

| Frequency (MHz)                        | 836.400024 |
|--|------------|
| Relative permittivity (real part)      | 40.415878  |
| Relative permittivity (imaginary part) | 19.257500  |
| Conductivity (S/m)                     | 0.894832   |
| Variation (%)                          | 4.650000   |



Maximum location: X=-1.00, Y=-21.00

SAR Peak: 1.15 W/kg

| SAR 10g (W/Kg) | 0.199417 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.489451 |

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Next to the mouth Test data (Separation Distance is 10 mm)

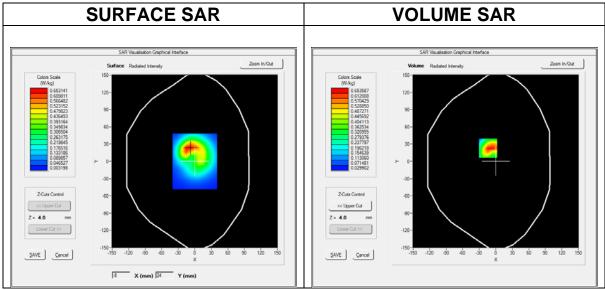
A. Experimental conditions.

| Area Scan              | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <b>Device Position</b> | Body                                   |
| Band                   | <u>GSM850</u>                          |
| <u>Channels</u>        | <u>Middle</u>                          |
| Signal                 | TDMA (Crest factor: 4.1)               |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 189):

| Frequency (MHz)                        | 836.400024 |
|--|------------|
| Relative permittivity (real part)      | 40.415878  |
| Relative permittivity (imaginary part) | 19.257500  |
| Conductivity (S/m)                     | 0.894832   |
| Variation (%)                          | -3.200000  |



Maximum location: X=-14.00, Y=23.00

SAR Peak: 1.05 W/kg

|                | <u> </u> |
|----------------|----------|
| SAR 10g (W/Kg) | 0.352047 |
| SAR 1g (W/Kg)  | 0.628056 |

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Extremity Test data (Separation Distance is 0 cm)

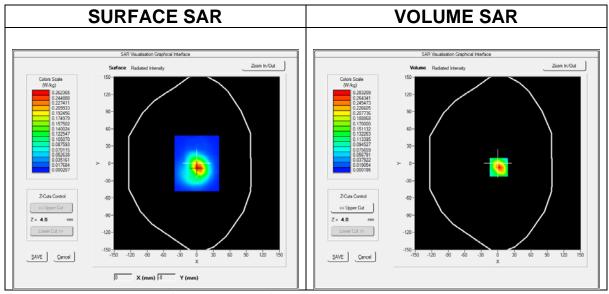
A. Experimental conditions.

| Area Scan              | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <b>Device Position</b> | <u>Body</u>                            |
| <u>Band</u>            | <u>GSM850</u>                          |
| <u>Channels</u>        | <u>Middle</u>                          |
| Signal                 | TDMA (Crest factor: 4.1)               |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 189):

| Frequency (MHz)                        | 836.400024 |
|--|------------|
| Relative permittivity (real part)      | 40.415878  |
| Relative permittivity (imaginary part) | 19.257500  |
| Conductivity (S/m)                     | 0.894832   |
| Variation (%)                          | -6.740000  |



Maximum location: X=2.00, Y=-7.00

SAR Peak: 0.68 W/kg

|                | <u> </u> |
|----------------|----------|
| SAR 10g (W/Kg) | 0.120465 |
| SAR 1g (W/Kg)  | 0.289855 |

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Extremity Test data (Separation Distance is 0 cm)

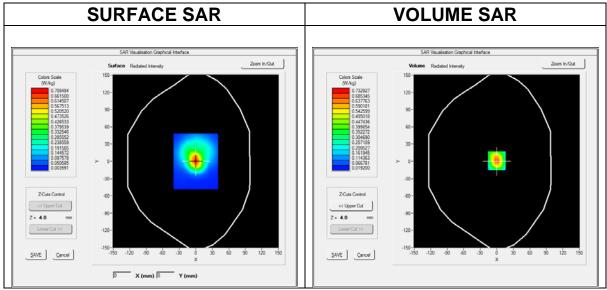
A. Experimental conditions.

| <u>Area Scan</u>       | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <b>Device Position</b> | <u>Body</u>                            |
| Band                   | GSM850                                 |
| <u>Channels</u>        | <u>Middle</u>                          |
| Signal                 | TDMA (Crest factor: 4.1)               |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 189):

| Frequency (MHz)                        | 836.400024 |
|--|------------|
| Relative permittivity (real part)      | 40.415878  |
| Relative permittivity (imaginary part) | 19.257500  |
| Conductivity (S/m)                     | 0.894832   |
| Variation (%)                          | -2.140000  |



Maximum location: X=0.00, Y=1.00 SAR Peak: 1.08 W/kg

| SAR 10g (W/Kg) | 0.367334 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.673008 |

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Next to the mouth Test data (Separation Distance is 10 mm)

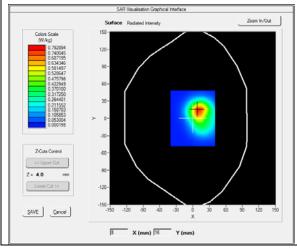
A. Experimental conditions.

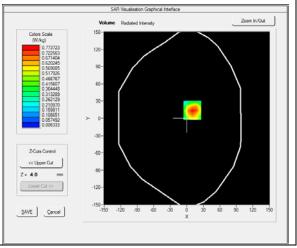
| Area Scan              | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| ZoomScan               | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <b>Device Position</b> | <u>Body</u>                            |
| Band                   | GSM1900                                |
| <u>Channels</u>        | <u>Middle</u>                          |
| Signal                 | TDMA (Crest factor: 8.3)               |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 661):

| Frequency (MHz)                        | 1880.000000 |
|--|-------------|
| Relative permittivity (real part)      | 38.433399   |
| Relative permittivity (imaginary part) | 13.200500   |
| Conductivity (S/m)                     | 1.378719    |
| Variation (%)                          | -16.040001  |
| SURFACE SAR                            | VOLUME SAR  |





Maximum location: X=10.00, Y=14.00

SAR Peak: 1.26 W/kg

| SAR 10g (W/Kg) | 0.402935 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.742917 |

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Next to the mouth Test data (Separation Distance is 10 mm)

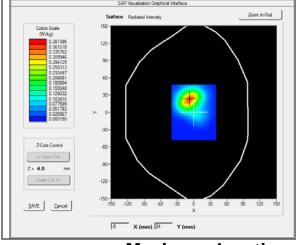
A. Experimental conditions.

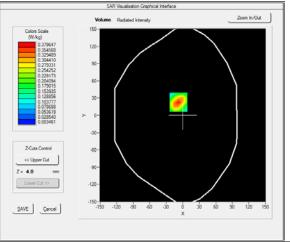
| <u>Area Scan</u>       | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <b>Device Position</b> | Body                                   |
| <u>Band</u>            | <u>GSM1900</u>                         |
| <u>Channels</u>        | <u>Middle</u>                          |
| <u>Signal</u>          | TDMA (Crest factor: 8.3)               |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 661):

| SAR Vaualisation Graphical Interface  Surface Radiated Intervaly  Zoom In Out | SAR Vaualisation Graphical Interface  Volume Radardel Hernally Zoom In/Out |
|---|--|
| SURFACE SAR   | VOLUME SAR   |
| Variation (%)   | -1.920000  |
| Conductivity (S/m)  | 1.378719   |
| Relative permittivity (imaginary part)  | 13.200500  |
| Relative permittivity (real part)   | 38.433399  |
| Frequency (MHz)   | 1880.000000  |





Maximum location: X=-8.00, Y=23.00

SAR Peak: 0.59 W/kg

| SAR 10g (W/Kg) | 0.185964 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.355115 |

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Extremity Test data (Separation Distance is 0 cm)

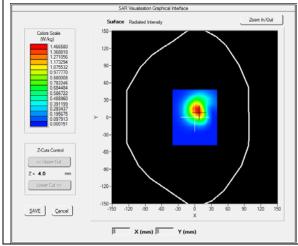
A. Experimental conditions.

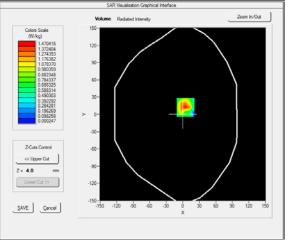
| <u>Area Scan</u>       | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <b>Device Position</b> | <u>Body</u>                            |
| Band                   | <u>GSM1900</u>                         |
| <u>Channels</u>        | <u>Middle</u>                          |
| Signal                 | TDMA (Crest factor: 8.3)               |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 661):

| Frequency (MHz)   | 1880.000000   |
|---|---|
| Relative permittivity (real part)   | 38.433399   |
| Relative permittivity (imaginary part)  | 13.200500   |
| Conductivity (S/m)  | 1.378719  |
| Variation (%)   | -2.820000   |
| SURFACE SAR   | VOLUME SAR  |
| SAR Vaualisation Graphical Interface  Surface Reduled Internsty  Colons Scale (W/kg)  W/kg) | SAR Vausilation Graphical Interface  Volume Radiated Internsty  Colors Scale (W/Ng)  (W/Ng) |





Maximum location: X=5.00, Y=12.00

SAR Peak: 2.31 W/kg

| SAR 10g (W/Kg) | 0.709869 |
|----------------|----------|
| SAR 1g (W/Kg)  | 1.348161 |

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Extremity Test data (Separation Distance is 0 cm)

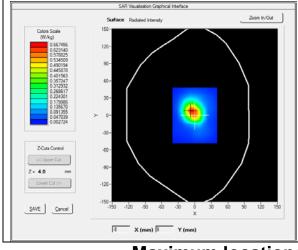
A. Experimental conditions.

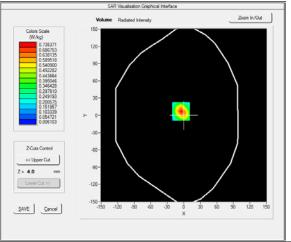
| Area Scan              | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <b>Device Position</b> | <u>Body</u>                            |
| Band                   | <u>GSM1900</u>                         |
| <u>Channels</u>        | <u>Middle</u>                          |
| Signal                 | TDMA (Crest factor: 8.3)               |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 661):

| Frequency (MHz)  | 1880.000000  |
|--|--|
| Relative permittivity (real part)  | 38.433399  |
| Relative permittivity (imaginary part)   | 13.200500  |
| Conductivity (S/m)   | 1.378719   |
| Variation (%)  | -1.830000  |
| SURFACE SAR  | VOLUME SAR   |
| SAR Vaualisation Graphical Interface  Surface Reduled Internsty  Colons Scale (W/kg)  (W/kg) | SAR Visualisation Graphical Interface  Volume Radiated Internsty  Colon Scale (W/rg)  (W/rg) |





Maximum location: X=-5.00, Y=7.00

SAR Peak: 1.16 W/kg

| SAR 10g (W/Kg) | 0.360401 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.694037 |

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Next to the mouth Test data (Separation Distance is 10 mm)

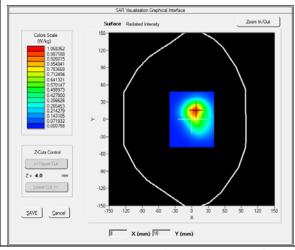
A. Experimental conditions.

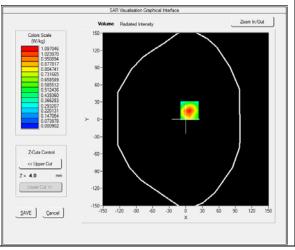
| <u>Area Scan</u>       | <u>dx=8mm dy=8mm, h= 5.00 mm</u>   |
|------------------------|------------------------------------|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                |
|                        | dz=5mm,Complete/ndx=8mm dy=8mm, h= |
|                        | <u>5.00 mm</u>                     |
| <u>Phantom</u>         | Validation plane                   |
| <b>Device Position</b> | <u>Body</u>                        |
| <u>Band</u>            | Band2_WCDMA1900                    |
| <u>Channels</u>        | <u>Middle</u>                      |
| <u>Signal</u>          | WCDMA (Crest factor: 1.0)          |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 661):

| Frequency (MHz)                        | 1880.000000 |
|--|-------------|
| Relative permittivity (real part)      | 38.433399   |
| Relative permittivity (imaginary part) | 13.200500   |
| Conductivity (S/m)                     | 1.378719    |
| Variation (%)                          | -95.730003  |
| SURFACE SAR                            | VOLUME SAR  |





Maximum location: X=7.00, Y=15.00

SAR Peak: 1.77 W/kg

| SAR 10g (W/Kg) | 0.570548 |
|----------------|----------|
| SAR 1g (W/Kg)  | 1.065414 |

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Extremity Test data (Separation Distance is 0 cm)

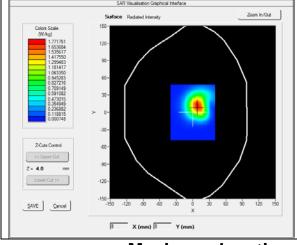
A. Experimental conditions.

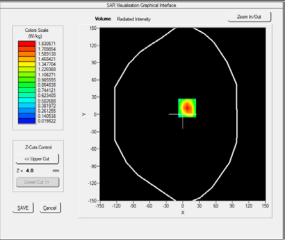
| <u>Area Scan</u>       | <u>dx=8mm dy=8mm, h= 5.00 mm</u>   |
|------------------------|------------------------------------|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                |
|                        | dz=5mm,Complete/ndx=8mm dy=8mm, h= |
|                        | <u>5.00 mm</u>                     |
| <u>Phantom</u>         | Validation plane                   |
| <u>Device Position</u> | <u>Body</u>                        |
| Band                   | Band2_WCDMA1900                    |
| <u>Channels</u>        | <u>Middle</u>                      |
| Signal                 | WCDMA (Crest factor: 1.0)          |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 9400):

| Frequency (MHz)                                     | 1880.000000   |
|---|---|
| Relative permittivity (real part)                   | 38.433399   |
| Relative permittivity (imaginary part)              | 13.200500   |
| Conductivity (S/m)                                  | 1.378719  |
| Variation (%)                                       | 0.280000  |
| SURFACE SAR   | VOLUME SAR  |
| SAR Visualisation Graphical Interface   Zoom In/Out | SAR Visualisation Graphical Interface  Volume Radiated Internaty  Zoom In/Out  Sale (W/kg)  1 199571 1 79954 1 120 - 1 599130 |





Maximum location: X=8.00, Y=11.00

SAR Peak: 2.81 W/kg

| SAR 10g (W/Kg) | 0.940482 |
|----------------|----------|
| SAR 1g (W/Kg)  | 1.743186 |

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Next to the mouth Test data (Separation Distance is 10 mm)

A. Experimental conditions.

| Area Scan              | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| ZoomScan               | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <b>Device Position</b> | Body                                   |
| Band                   | Band5_WCDMA1700                        |
| <u>Channels</u>        | <u>Middle</u>                          |
| Signal                 | WCDMA (Crest factor: 1.0)              |

# C. SAR Measurement Results Middle Band SAR (Channel 1412):

| Frequency (MHz)                                     | 1732.000000  |
|---|--|
| Relative permittivity (real part)                   | 39.288200  |
| Relative permittivity (imaginary part)              | 14.244500  |
| Conductivity (S/m)                                  | 1.370637   |
| Variation (%)                                       | 0.190000   |
| SURFACE SAR   | VOLUME SAR   |
| SAR Vasualisation Graphical Interface   Zeom In Out | SAR Vausisation Graphical Interface   Volume   Reducted Internally   Zoom In/Out |

Maximum location: X=-15.00, Y=9.00

SAR Peak: 1.24 W/kg

| SAR 10g (W/Kg) | 0.414240 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.768228 |

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Extremity Test data (Separation Distance is 0 cm)

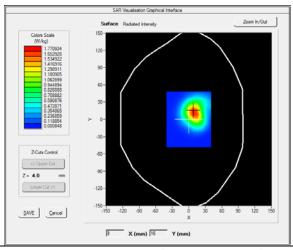
#### A. Experimental conditions.

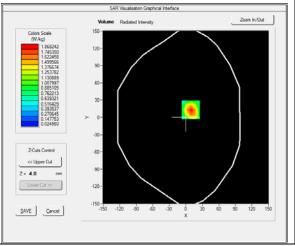
| Area Scan              | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| ZoomScan               | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <b>Device Position</b> | Body                                   |
| Band                   | Band5_WCDMA1700                        |
| <u>Channels</u>        | <u>Middle</u>                          |
| Signal                 | WCDMA (Crest factor: 1.0)              |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 1412):

| Frequency (MHz)                        | 1732.000000 |
|--|-------------|
| Relative permittivity (real part)      | 39.288200   |
| Relative permittivity (imaginary part) | 14.244500   |
| Conductivity (S/m)                     | 1.370637    |
| Variation (%)                          | 0.660000    |
| SURFACE SAR                            | VOLUME SAR  |
|  |             |





Maximum location: X=9.00, Y=13.00

SAR Peak: 2.84 W/kg

| SAR 10g (W/Kg) | 0.964131 |
|----------------|----------|
| SAR 1g (W/Kg)  | 1.777328 |

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Next to the mouth Test data (Separation Distance is 10 mm)

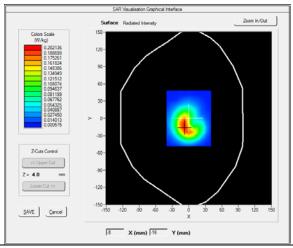
A. Experimental conditions.

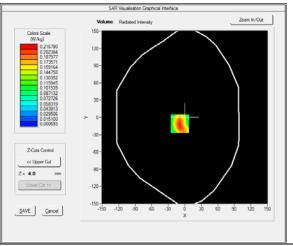
| <u>Area Scan</u>       | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <b>Device Position</b> | <u>Body</u>                            |
| Band                   | Band5_WCDMA850                         |
| <u>Channels</u>        | <u>Middle</u>                          |
| Signal                 | WCDMA (Crest factor: 1.0)              |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 4182):

| Frequency (MHz)                        | 836.400024 |
|--|------------|
| Relative permittivity (real part)      | 40.415878  |
| Relative permittivity (imaginary part) | 19.257500  |
| Conductivity (S/m)                     | 0.894832   |
| Variation (%)                          | 2.520000   |
| SURFACE SAR                            | VOLUME SAR |





Maximum location: X=-9.00, Y=-11.00

SAR Peak: 0.37 W/kg

|                | <u> </u> |
|----------------|----------|
| SAR 10g (W/Kg) | 0.104521 |
| SAR 1g (W/Kg)  | 0.209295 |

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Extremity Test data (Separation Distance is 0 cm)

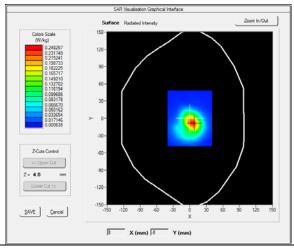
## A. Experimental conditions.

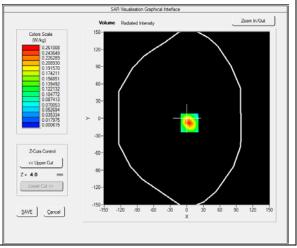
| Area Scan       | surf_sam_plan.txt, h= 5.00 mm          |
|-----------------|--|
| <u>ZoomScan</u> | 5x5x7,dx=8mm dy=8mm                    |
|                 | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                 | <u>5.00 mm</u>                         |
| <u>Phantom</u>  | Validation plane                       |
| Device Position | <u>Body</u>                            |
| <u>Band</u>     | Band5_WCDMA850                         |
| <u>Channels</u> | <u>Middle</u>                          |
| <u>Signal</u>   | WCDMA (Crest factor: 1.0)              |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 4182):

| Frequency (MHz)                        | 836.400024 |
|--|------------|
| Relative permittivity (real part)      | 40.415878  |
| Relative permittivity (imaginary part) | 19.257500  |
| Conductivity (S/m)                     | 0.894832   |
| Variation (%)                          | -5.760000  |
| SURFACE SAR                            | VOLUME SAR |





Maximum location: X=5.00, Y=-8.00

SAR Peak: 0.45 W/kg

| SAR 10g (W/Kg) | 0.115241 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.246960 |

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Next to the mouth Test data (Separation Distance is 10 mm)

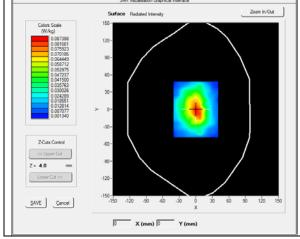
A. Experimental conditions.

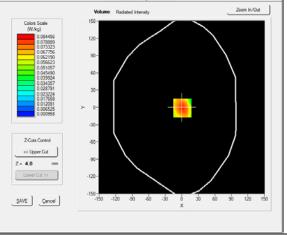
| <u>Area Scan</u>       | <u>dx=8mm dy=8mm, h= 5.00 mm</u>   |
|------------------------|------------------------------------|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                |
|                        | dz=5mm,Complete/ndx=8mm dy=8mm, h= |
|                        | <u>5.00 mm</u>                     |
| <u>Phantom</u>         | <u>Validation plane</u>            |
| <b>Device Position</b> | <u>Body</u>                        |
| <u>Band</u>            | <u>Bluetooth</u>                   |
| <u>Channels</u>        | <u>Middle</u>                      |
| Signal                 | Bluetooth (Crest factor: 1.0)      |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 0):

| Frequency (MHz)                                     | 2402.000000   |
|---|---|
| Relative permittivity (real part)                   | 36.783298   |
| Relative permittivity (imaginary part)              | 13.481900   |
| Conductivity (S/m)                                  | 1.825299  |
| Variation (%)                                       | 7.350000  |
| SURFACE SAR   | VOLUME SAR  |
| SAR Vacualisation Graphical Interface   Zoom In/Out | SAR Vasualisation Graphical Interface  Volume Radiated Internally  Cations Scale (M/Krg)  0.084556 0.0378899 1.20 - 0.077352 0.087756 0.002150 90 - 0.002150 90 - 0.002150 0.002150 90 - 0.002150 0.002150 90 - 0.002150 0.002150 90 - 0.002150 0.002150 90 - 0.002150 0.002150 90 - 0.002150 0.002150 0.002150 90 - 0.002150 |





Maximum location: X=1.00, Y=-1.00

SAR Peak: 0.14 W/kg

| SAR 10g (W/Kg) | 0.046383 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.084479 |

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Extremity Test data (Separation Distance is 0 cm)

A. Experimental conditions.

| <u>Area Scan</u>       | <u>dx=8mm dy=8mm, h= 5.00 mm</u>   |
|------------------------|------------------------------------|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                |
|                        | dz=5mm,Complete/ndx=8mm dy=8mm, h= |
|                        | <u>5.00 mm</u>                     |
| <u>Phantom</u>         | Validation plane                   |
| <b>Device Position</b> | <u>Body</u>                        |
| Band                   | Bluetooth                          |
| <u>Channels</u>        | <u>Middle</u>                      |
| Signal                 | Bluetooth (Crest factor: 1.0)      |

# C. SAR Measurement Results Middle Band SAR (Channel 0):

| Frequency (MHz)                                       | 2402.000000   |
|---|---|
| Relative permittivity (real part)                     | 36.783298   |
| Relative permittivity (imaginary part)                | 13.481900   |
| Conductivity (S/m)                                    | 1.825299  |
| Variation (%)   | 14.180000   |
| SURFACE SAR   | VOLUME SAR  |
| SAF   Vasualisation Graphical Interface   Zoom In-Out | SAR Vaualisation Graphical Interface   Volume   Reduted Internally   Zigon In/Out |

Maximum location: X=1.00, Y=-7.00

SAR Peak: 0.36 W/kg

|                | <u> </u> |
|----------------|----------|
| SAR 10g (W/Kg) | 0.140412 |
| SAR 1g (W/Kg)  | 0.254673 |

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Next to the mouth Test data (Separation Distance is 10 mm)

A. Experimental conditions.

| Area Scan              | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <b>Device Position</b> | <u>Body</u>                            |
| <u>Band</u>            | LTE band 2                             |
| <u>Channels</u>        | <u>Middle</u>                          |
| <u>Signal</u>          | LTE (Crest factor: 1.0)                |

#### **C. SAR Measurement Results**

Middle Band SAR (Channel 18900):

| Frequency (MHz)                                     | 1879.500000   |
|---|---|
| Relative permittivity (real part)                   | 38.414349   |
| Relative permittivity (imaginary part)              | 13.211250   |
| Conductivity (S/m)                                  | 1.379475  |
| Variation (%)                                       | -2.110001   |
| SURFACE SAR   | VOLUME SAR  |
| SAR Vasualisation Graphical Interface   Zoom In-Out | SAP Vausilation Graphical Interface   Volume Reducted Internaty   Zoom In/Out |

Maximum location: X=-6.00, Y=22.00

SAR Peak: 1.12 W/kg

| SAR 10g (W/Kg) | 0.338358 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.663999 |

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Extremity Test data (Separation Distance is 0 cm)

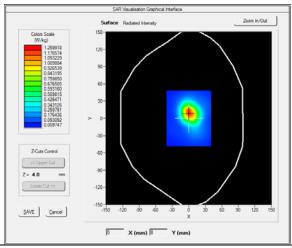
A. Experimental conditions.

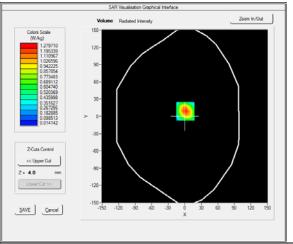
| Area Scan              | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <b>Device Position</b> | <u>Body</u>                            |
| <u>Band</u>            | LTE band 2                             |
| <u>Channels</u>        | <u>Middle</u>                          |
| <u>Signal</u>          | LTE (Crest factor: 1.0)                |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 18900):

| Frequency (MHz)                        | 1879.500000 |
|--|-------------|
| Relative permittivity (real part)      | 38.414349   |
| Relative permittivity (imaginary part) | 13.211250   |
| Conductivity (S/m)                     | 1.379475    |
| Variation (%)                          | 2.230000    |
| SURFACE SAR                            | VOLUME SAR  |
|  |             |





Maximum location: X=1.00, Y=9.00

SAR Peak: 1.92 W/kg

| SAR 10g (W/Kg) | 0.638568 |
|----------------|----------|
| SAR 1g (W/Kg)  | 1.194105 |

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Next to the mouth Test data (Separation Distance is 10 mm)

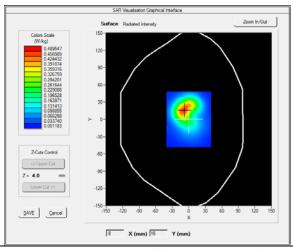
#### A. Experimental conditions.

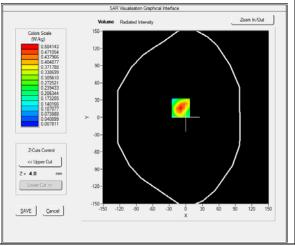
| Area Scan              | dx=8mm dy=8mm, h= 5.00 mm          |
|------------------------|------------------------------------|
| ZoomScan               | 5x5x7,dx=8mm dy=8mm                |
|                        | dz=5mm,Complete/ndx=8mm dy=8mm, h= |
|                        | <u>5.00 mm</u>                     |
| <u>Phantom</u>         | Validation plane                   |
| <b>Device Position</b> | Body                               |
| Band                   | LTE band 4                         |
| <u>Channels</u>        | <u>Middle</u>                      |
| Signal                 | LTE (Crest factor: 1.0)            |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 20175):

| Frequency (MHz)                        | 1732.500000 |
|--|-------------|
| Relative permittivity (real part)      | 39.297798   |
| Relative permittivity (imaginary part) | 14.242600   |
| Conductivity (S/m)                     | 1.370850    |
| Variation (%)                          | 1.530000    |
| SURFACE SAR                            | VOLUME SAR  |





Maximum location: X=-9.00, Y=16.00

SAR Peak: 0.75 W/kg

| SAR 10g (W/Kg) | 0.261173 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.477368 |

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Extremity Test data (Separation Distance is 0 cm)

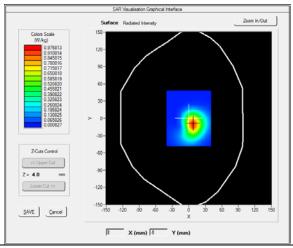
#### A. Experimental conditions.

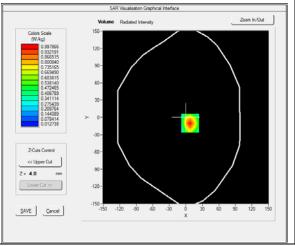
| <u>Area Scan</u>       | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <u>Device Position</u> | Body                                   |
| <u>Band</u>            | LTE band 4                             |
| <u>Channels</u>        | <u>Middle</u>                          |
| <u>Signal</u>          | LTE (Crest factor: 1.0)                |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 20175):

| Frequency (MHz)                        | 1732.500000 |
|--|-------------|
| Relative permittivity (real part)      | 39.297798   |
| Relative permittivity (imaginary part) | 14.242600   |
| Conductivity (S/m)                     | 1.370850    |
| Variation (%)                          | -0.910000   |
| SURFACE SAR                            | VOLUME SAR  |





Maximum location: X=8.00, Y=-10.00 SAR Peak: 1.45 W/kg

|                | <u> </u> |
|----------------|----------|
| SAR 10g (W/Kg) | 0.511015 |
| SAR 1g (W/Kg)  | 0.943842 |

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Next to the mouth Test data (Separation Distance is 10 mm)

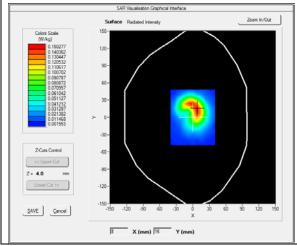
A. Experimental conditions.

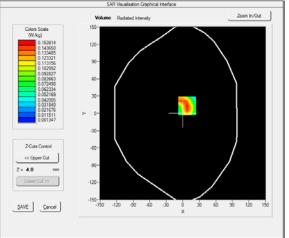
| <u>Area Scan</u>       | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <b>Device Position</b> | <u>Body</u>                            |
| Band                   | LTE band 5                             |
| <u>Channels</u>        | <u>Middle</u>                          |
| <u>Signal</u>          | LTE (Crest factor: 1.0)                |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 20525):

| Frequency (MHz)   | 836.500000   |
|---|--|
| Relative permittivity (real part)   | 40.418098  |
| Relative permittivity (imaginary part)  | 19.261900  |
| Conductivity (S/m)  | 0.895143   |
| Variation (%)   | -3.870000  |
| SURFACE SAR   | VOLUME SAR   |
| SAR Vasualisation Graphical Interface  Surface Radiated Internally Zoom In-Out  Colors Scale (M-Ng) | SAR Vasalisation Graphical Interface  Volume Radiated Internsty Zoom In-Out  Colors Scale (M/kg) |





Maximum location: X=8.00, Y=13.00

SAR Peak: 0.27 W/kg

| SAR 10g (W/Kg) | 0.071589 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.147011 |

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Extremity Test data (Separation Distance is 0 cm)

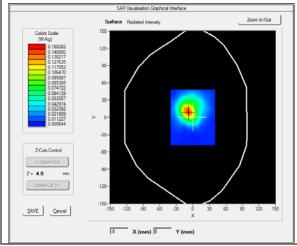
A. Experimental conditions.

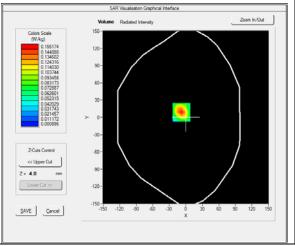
| Area Scan              | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <b>Device Position</b> | Body                                   |
| <u>Band</u>            | LTE band 5                             |
| <u>Channels</u>        | <u>Middle</u>                          |
| <u>Signal</u>          | LTE (Crest factor: 1.0)                |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 20525):

| Frequency (MHz)                        | 836.500000 |
|--|------------|
| Relative permittivity (real part)      | 40.418098  |
| Relative permittivity (imaginary part) | 19.261900  |
| Conductivity (S/m)                     | 0.895143   |
| Variation (%)                          | -5.300000  |
| SURFACE SAR                            | VOLUME SAR |





Maximum location: X=7.00, Y=-25.00

SAR Peak: 0.43 W/kg

| SAR 10g (W/Kg) | 0.135518 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.324797 |

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Next to the mouth Test data (Separation Distance is 10 mm)

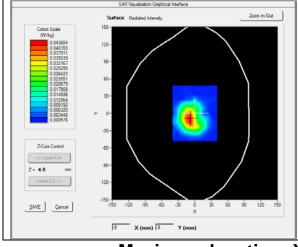
A. Experimental conditions.

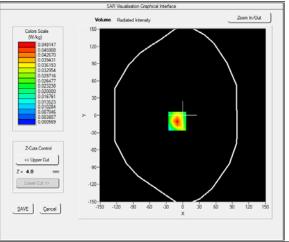
| Area Scan              | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <b>Device Position</b> | Body                                   |
| Band                   | LTE band 12                            |
| <u>Channels</u>        | <u>Middle</u>                          |
| Signal                 | LTE (Crest factor: 1.0)                |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 23095):

| Frequency (MHz)                        | 707.500000   |
|--|--|
| Relative permittivity (real part)      | 42.034801  |
| Relative permittivity (imaginary part) | 20.835951  |
| Conductivity (S/m)                     | 0.818969   |
| Variation (%)                          | -0.900000  |
| SURFACE SAR                            | VOLUME SAR   |
| SAR Vaueleation Graphical Interface    | SAR Visualisation Graphical Interface  Volume Radiated Internaty  Colon Scale (Wing)  (Wing) |





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

SAR Peak: 0.09 W/kg

|                | 0.024.04.4 |
|----------------|------------|
| SAR 10g (W/Kg) | 0.021014   |
| SAR 1g (W/Kg)  | 0.046258   |

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Extremity Test data (Separation Distance is 0 cm)

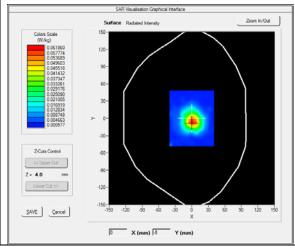
#### A. Experimental conditions.

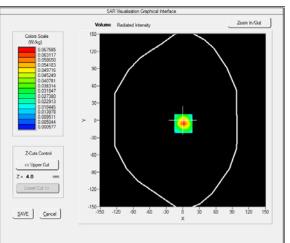
| Area Scan              | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | <u>Validation plane</u>                |
| <b>Device Position</b> | Body                                   |
| <u>Band</u>            | LTE band 12                            |
| <u>Channels</u>        | <u>Middle</u>                          |
| <u>Signal</u>          | LTE (Crest factor: 1.0)                |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 23095):

| Frequency (MHz)                        | 707.500000 |
|--|------------|
| Relative permittivity (real part)      | 42.034801  |
| Relative permittivity (imaginary part) | 20.835951  |
| Conductivity (S/m)                     | 0.818969   |
| Variation (%)                          | -2.990000  |
| SURFACE SAR                            | VOLUME SAR |
|  |            |





Maximum location: X=1.00, Y=-6.00

SAR Peak: 0.12 W/kg

| SAR 10g (W/Kg) | 0.061581 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.162143 |

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Next to the mouth Test data (Separation Distance is 10 mm)

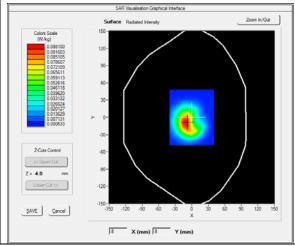
A. Experimental conditions.

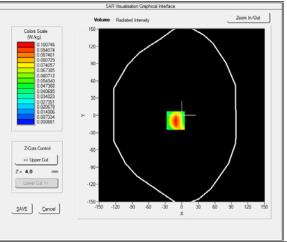
| <u>Area Scan</u> | surf_sam_plan.txt, h= 5.00 mm          |
|------------------|--|
| <u>ZoomScan</u>  | 5x5x7,dx=8mm dy=8mm                    |
|                  | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                  | <u>5.00 mm</u>                         |
| <u>Phantom</u>   | Validation plane                       |
| Device Position  | Body                                   |
| Band             | LTE band 13                            |
| <u>Channels</u>  | <u>Middle</u>                          |
| <u>Signal</u>    | LTE (Crest factor: 1.0)                |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 23230):

| Frequency (MHz)                        | 781.500000                            |
|--|---------------------------------------|
| Relative permittivity (real part)      | 40.682701                             |
| Relative permittivity (imaginary part) | 20.716749                             |
| Conductivity (S/m)                     | 0.899452                              |
| Variation (%)                          | -7.880000                             |
| SURFACE SAR                            | VOLUME SAR                            |
| SAR Vaualisation Graphical Interface   | SAR Visualisation Graphical Interface |





Maximum location: X=-11.00, Y=-9.00

SAR Peak: 0.18 W/kg

| SAR 10g (W/Kg) | 0.047278 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.098716 |

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Extremity Test data (Separation Distance is 0 cm)

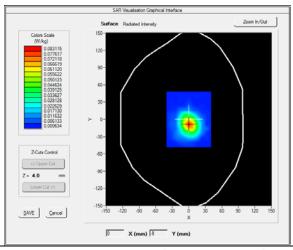
#### A. Experimental conditions.

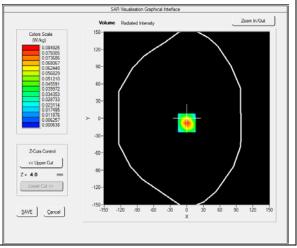
| Area Scan              | surf_sam_plan.txt, h= 5.00 mm          |
|------------------------|--|
| ZoomScan               | 5x5x7,dx=8mm dy=8mm                    |
|                        | dz=5mm,Complete/nsurf_sam_plan.txt, h= |
|                        | <u>5.00 mm</u>                         |
| <u>Phantom</u>         | Validation plane                       |
| <b>Device Position</b> | <u>Body</u>                            |
| <u>Band</u>            | LTE band 13                            |
| <u>Channels</u>        | <u>Middle</u>                          |
| <u>Signal</u>          | LTE (Crest factor: 1.0)                |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 23230):

| Frequency (MHz)                        | 781.500000 |
|--|------------|
| Relative permittivity (real part)      | 40.682701  |
| Relative permittivity (imaginary part) | 20.716749  |
| Conductivity (S/m)                     | 0.899452   |
| Variation (%)                          | -3.450000  |
| SURFACE SAR                            | VOLUME SAR |





Maximum location: X=0.00, Y=-4.00

SAR Peak: 0.85 W/kg

| SAR 10g (W/Kg) | 0.145514 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.279959 |

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Next to the mouth Test data (Separation Distance is 10 mm)

A. Experimental conditions.

| Area Scan              | dx=8mm dy=8mm, h= 5.00 mm          |
|------------------------|------------------------------------|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                |
|                        | dz=5mm,Complete/ndx=8mm dy=8mm, h= |
|                        | <u>5.00 mm</u>                     |
| <u>Phantom</u>         | Validation plane                   |
| <b>Device Position</b> | <u>Body</u>                        |
| <u>Band</u>            | LTE band 66                        |
| <u>Channels</u>        | <u>Middle</u>                      |
| <u>Signal</u>          | LTE (Crest factor: 1.0)            |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 132322):

SAVE Cancel

8 X (mm) [16 Y (mm)

| 1745.000000  |
|--|
| 39.009335  |
| 13.553667  |
| 1.385633   |
| -1.980000  |
| VOLUME SAR   |
| SAR Vaualisation Graphical Interface   Volume   Radiated Internsty   Zoom In/Out |
|  |

Maximum location: X=8.00, Y=-14.00

SAR Peak: 0.96 W/kg

| SAR 10g (W/Kg) | 0.350978 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.629614 |

SAVE Cancel

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Extremity Test data (Separation Distance is 0 cm)

A. Experimental conditions.

| Area Scan              | <u>dx=8mm dy=8mm, h= 5.00 mm</u>   |
|------------------------|------------------------------------|
| <u>ZoomScan</u>        | 5x5x7,dx=8mm dy=8mm                |
|                        | dz=5mm,Complete/ndx=8mm dy=8mm, h= |
|                        | <u>5.00 mm</u>                     |
| <u>Phantom</u>         | Validation plane                   |
| <u>Device Position</u> | Body                               |
| Band                   | LTE band 66                        |
| <u>Channels</u>        | <u>Middle</u>                      |
| <u>Signal</u>          | LTE (Crest factor: 1.0)            |

## **C. SAR Measurement Results**

Middle Band SAR (Channel 132322):

| Frequency (MHz)   | 1745.000000  |
|---|--|
| Relative permittivity (real part)   | 39.009335  |
| Relative permittivity (imaginary part)  | 13.553667  |
| Conductivity (S/m)  | 1.385633   |
| Variation (%)   | 0.880000   |
| SURFACE SAR   | VOLUME SAR   |
| SAR Visualisation Graphical Interface  Surface Radiated Internally  Colors Scale (WA/Q)  0 0 022474 0 0 0537032 0 0519102 0 0519102 0 0519102 0 0519102 0 0519102 0 0519102 0 0519102 0 0 0 0519102 0 0 0 0519102 0 0 0 0519102 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | SAR Vaualisation Graphical Interface   Zoom In/Out |

Maximum location: X=-5.00, Y=-9.00

SAR Peak: 1.09 W/kg

| SAR 10g (W/Kg) | 0.379158 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.690619 |

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