

## APPENDIX A: SYSTEM CHECKING SCANS

Date of measurement: 07/7/2020

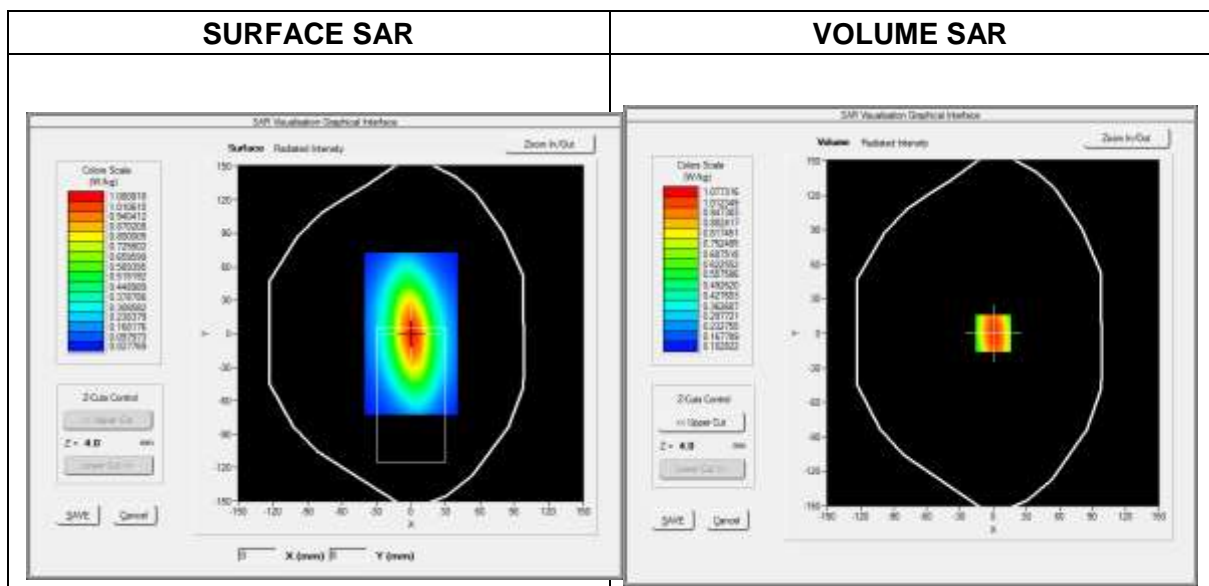
**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete/nsurf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW750</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel -1):

<b>Frequency (MHz)</b>	750.000000
<b>Relative permittivity (real part)</b>	41.411211
<b>Relative permittivity (imaginary part)</b>	19.564401
<b>Conductivity (S/m)</b>	0.889429
<b>Variation (%)</b>	-0.810000



**Maximum location: X=-2.00, Y=0.00**

**SAR Peak: 1.30 W/kg**

<b>SAR 10g (W/Kg)</b>	0.532245
<b>SAR 1g (W/Kg)</b>	0.910991

Date of measurement: 09/7/2020

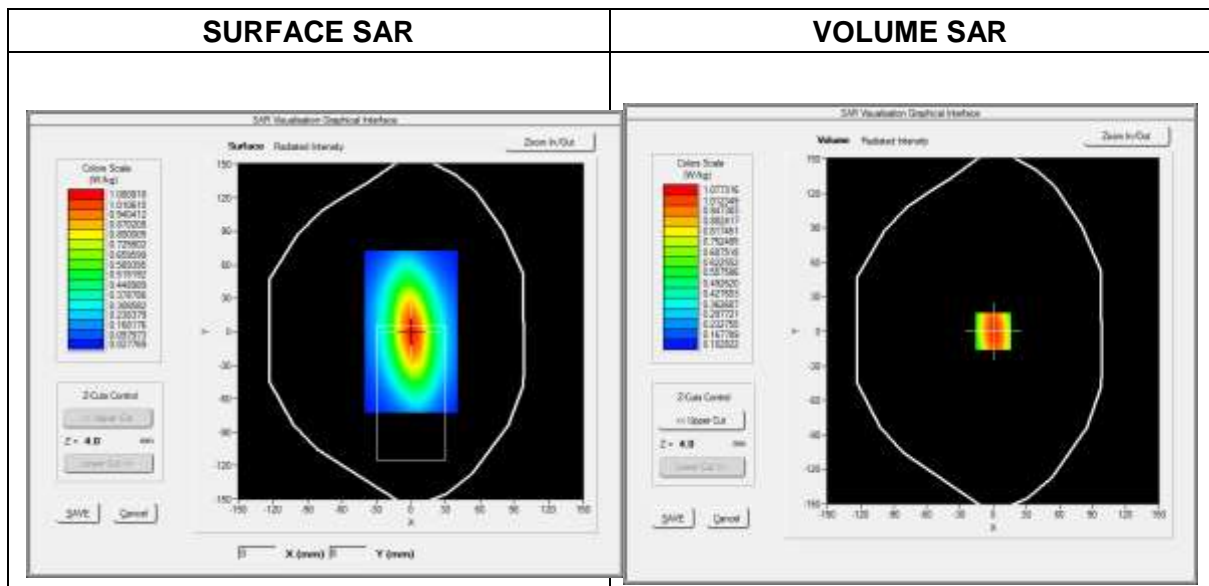
**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete/nsurf_sam_plan.txt, h= 5.00 mm</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>

**C. SAR Measurement Results**

Middle Band SAR (Channel -1):

<b>Frequency (MHz)</b>	835.000000
<b>Relative permittivity (real part)</b>	42.811211
<b>Relative permittivity (imaginary part)</b>	19.364401
<b>Conductivity (S/m)</b>	0.922429
<b>Variation (%)</b>	-0.820000



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

**SAR Peak: 1.49 W/kg**

<b>SAR 10g (W/Kg)</b>	0.612241
<b>SAR 1g (W/Kg)</b>	1.032047

Date of measurement: 11/7/2020

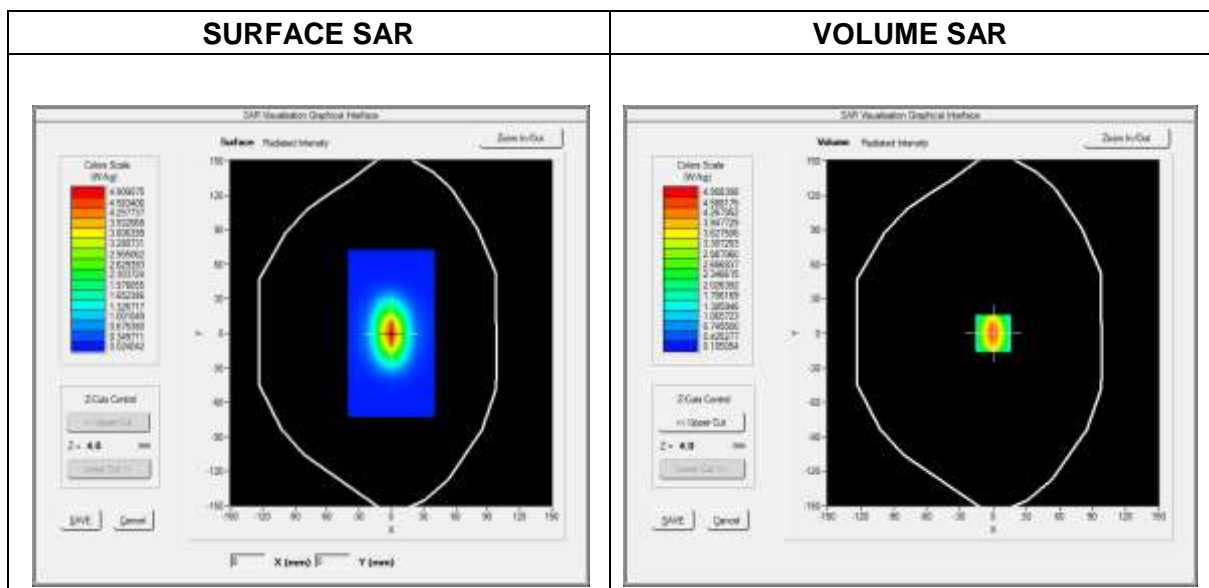
**A. Experimental conditions.**

<b><u>Area Scan</u></b>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<b><u>ZoomScan</u></b>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete/nsurf_sam_plan.txt, h= 5.00 mm</u>
<b><u>Phantom</u></b>	<u>Validation plane</u>
<b><u>Device Position</u></b>	<u>Dipole</u>
<b><u>Band</u></b>	<u>CW1750</u>
<b><u>Channels</u></b>	<u>Middle</u>
<b><u>Signal</u></b>	<u>CW (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel -1):

<b>Frequency (MHz)</b>	1750.000000
<b>Relative permittivity (real part)</b>	40.109789
<b>Relative permittivity (imaginary part)</b>	14.439212
<b>Conductivity (S/m)</b>	1.413610
<b>Variation (%)</b>	0.230000



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

**SAR Peak: 7.82 W/kg**

<b>SAR 10g (W/Kg)</b>	1.880042
<b>SAR 1g (W/Kg)</b>	3.604163

Date of measurement: 12/7/2020

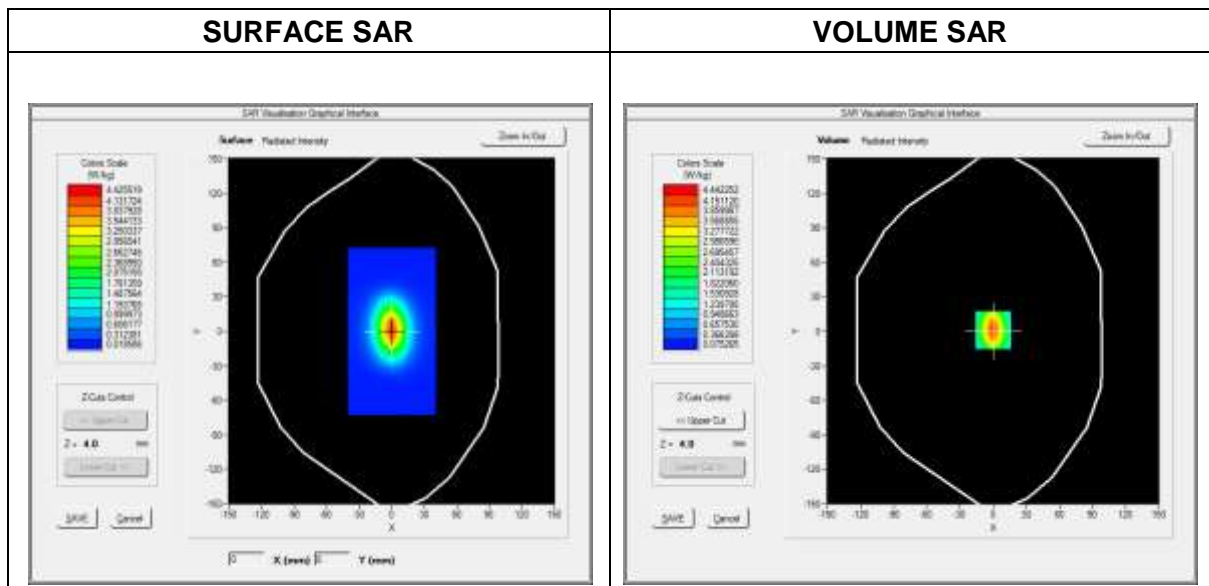
**A. Experimental conditions.**

<b>Area Scan</b>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete/nsurf_sam_plan.txt, h= 5.00 mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW1900</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel -1):

<b>Frequency (MHz)</b>	1900.000000
<b>Relative permittivity (real part)</b>	39.752101
<b>Relative permittivity (imaginary part)</b>	19.284800
<b>Conductivity (S/m)</b>	1.454896
<b>Variation (%)</b>	-0.420000



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

**SAR Peak: 7.19 W/kg**

<b>SAR 10g (W/Kg)</b>	1.928042
<b>SAR 1g (W/Kg)</b>	3.692301

Date of measurement: 15/7/2020

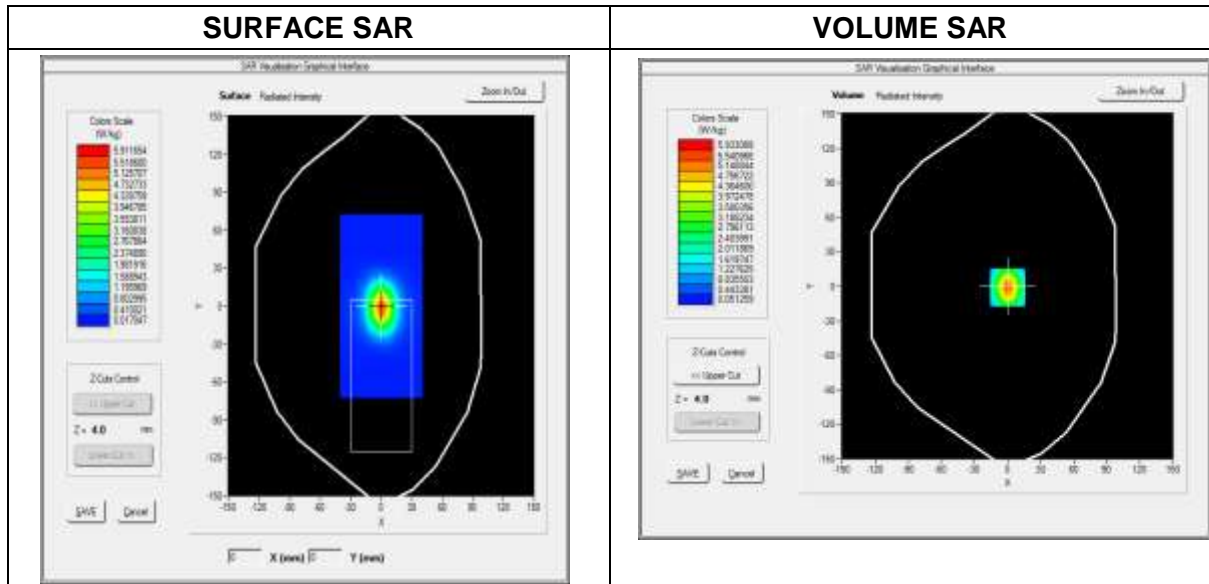
**A. Experimental conditions.**

<b>Area Scan</b>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete/nsurf_sam_plan.txt, h= 5.00 mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW2450</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel -1):

<b>Frequency (MHz)</b>	2450.000000
<b>Relative permittivity (real part)</b>	37.966698
<b>Relative permittivity (imaginary part)</b>	13.518400
<b>Conductivity (S/m)</b>	1.750004
<b>Variation (%)</b>	-1.140000



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

**SAR Peak: 10.14 W/Kg**

<b>SAR 10g (W/Kg)</b>	2.448055
<b>SAR 1g (W/Kg)</b>	4.920273