

Annex A: System Check

Tested Model : CX

Report Number: FCC17010035A-6

BODY

Type: Validation measurement (Complete)

Date of measurement: 5/1/2017

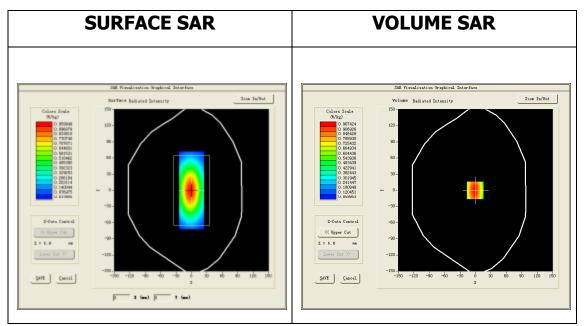
Measurement duration: 11 minutes 54 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=8mm dy=8mm
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<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>	CW (Duty cycle:1:1)

B. SAR Measurement Results

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

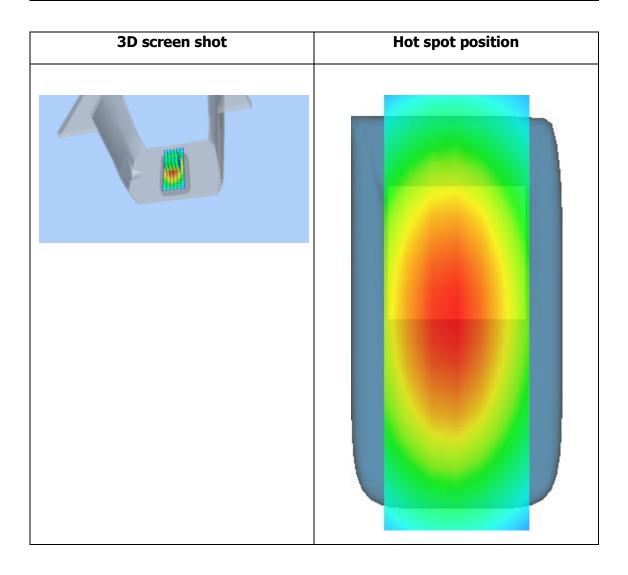


Maximum location: X=-1.00, Y=0.00

SAR Peak: 1.44 W/kg

SAR 10g (W/Kg)	6.44746
SAR 1g (W/Kg)	10.14583

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
	1.3- 1.2- 1.0- 0.8- 0.4- 0.4- 0.2- 0.1-	02.55.07.5	12.5 17	.5 22.5 2 Z (mm)	27.5 32.5	40.0	



HEAD

Type: Validation measurement (Complete)

Date of measurement: 5/1/2017

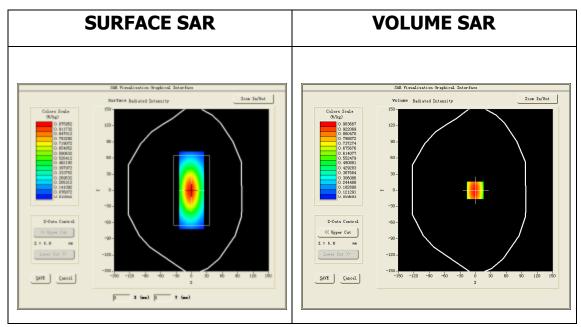
Measurement duration: 11 minutes 54 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=8mm dy=8mm
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<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>	CW (Duty cycle:1:1)

B. SAR Measurement Results

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

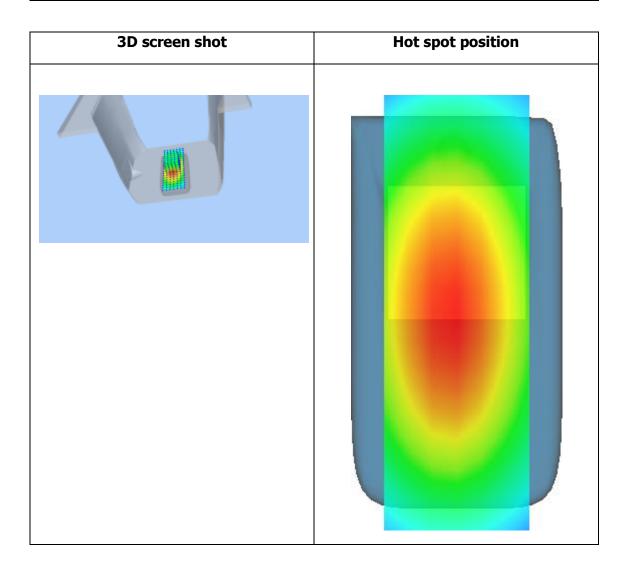


Maximum location: X=-1.00, Y=0.00

SAR Peak: 1.37 W/kg

SAR 10g (W/Kg)	6.15004
SAR 1g (W/Kg)	9.70049

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
	1.4- 1.2- 1.0- (%//kg) 0.8- 9.6- 0.4- 0.2- 0.1-	02.55.07.5	12.5 17	.5 22.5 2 Z (mm)	27.5 32.5	40.0	



BODY

Type: Validation measurement (Complete)

Date of measurement: 6/1/2017

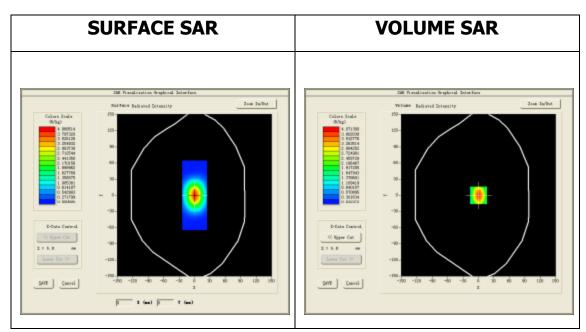
Measurement duration: 11 minutes 43 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=8mm dy=8mm
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<u>Phantom</u>	<u>Validation plane</u>
Device Position	<u>Dipole</u>
<u>Band</u>	<u>CW1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	CW (Duty cycle:1:1)

B. SAR Measurement Results

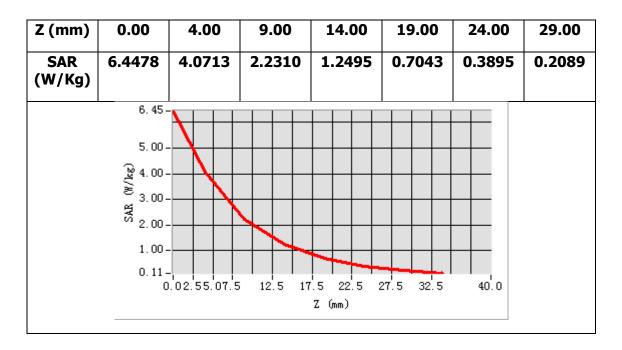
Frequency (MHz)	1800.000000
Relative permittivity (real part)	52.970200
Relative permittivity (imaginary part)	15.414900
Conductivity (S/m)	1.541490
Variation (%)	-0.080000

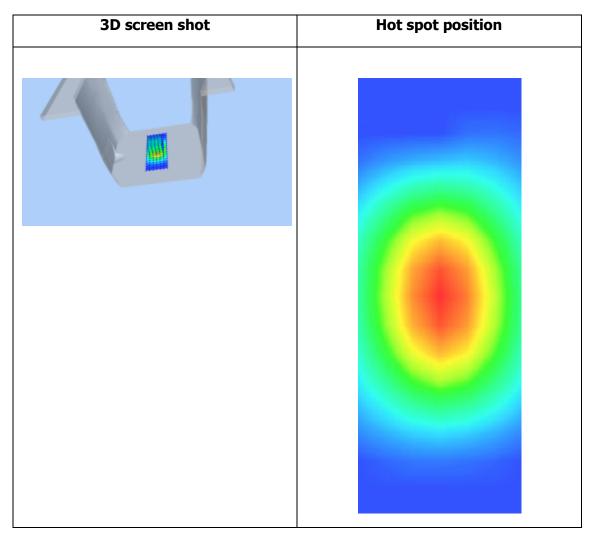


Maximum location: X=0.00, Y=0.00

SAR Peak: 6.86 W/kg

SAR 10g (W/Kg)	21.71523
SAR 1g (W/Kg)	41.55761





HEAD

Type: Validation measurement (Complete)

Date of measurement: 6/1/2017

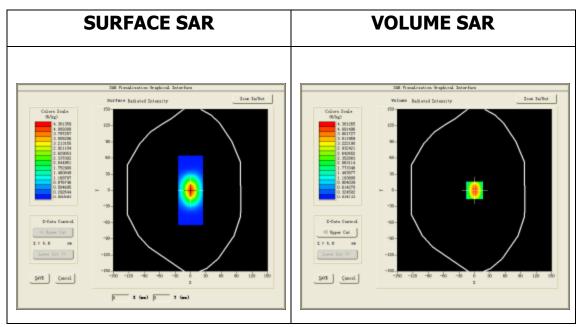
Measurement duration: 11 minutes 41 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=8mm dy=8mm
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<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>	CW (Duty cycle:1:1)

B. SAR Measurement Results

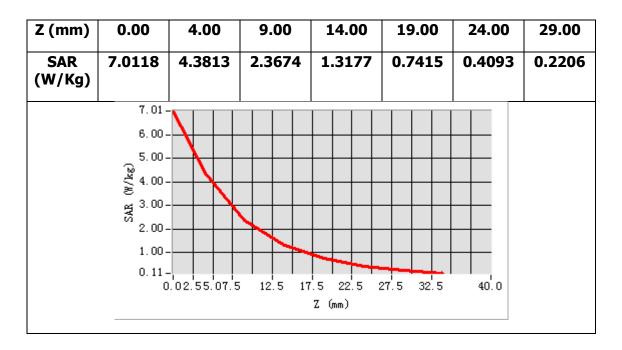
Frequency (MHz)	1800.000000
Relative permittivity (real part)	39.484501
Relative permittivity (imaginary part)	14.358300
Conductivity (S/m)	1.435830
Variation (%)	0.610000

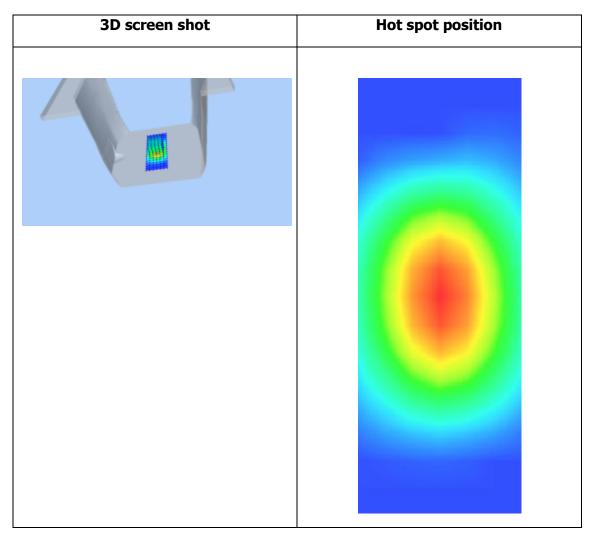


Maximum location: X=0.00, Y=0.00

SAR Peak: 6.95 W/kg

SAR 10g (W/Kg)	20.60484
SAR 1g (W/Kg)	39.98096





BODY

Type: Validation measurement (Complete)

Date of measurement: 7/1/2017

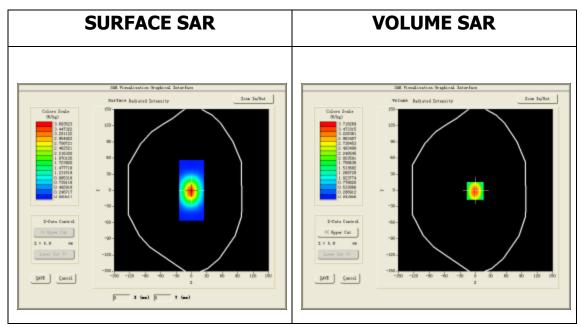
Measurement duration: 10 minutes 57 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=8mm dy=8mm
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<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>	CW (Duty cycle:1:1)

B. SAR Measurement Results

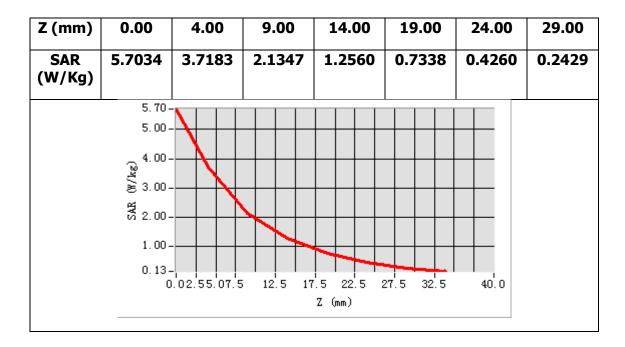
Frequency (MHz)	1900.000000
Relative permittivity (real part)	53.365299
Relative permittivity (imaginary part)	14.757600
Conductivity (S/m)	1.557747
Variation (%)	-0.450000

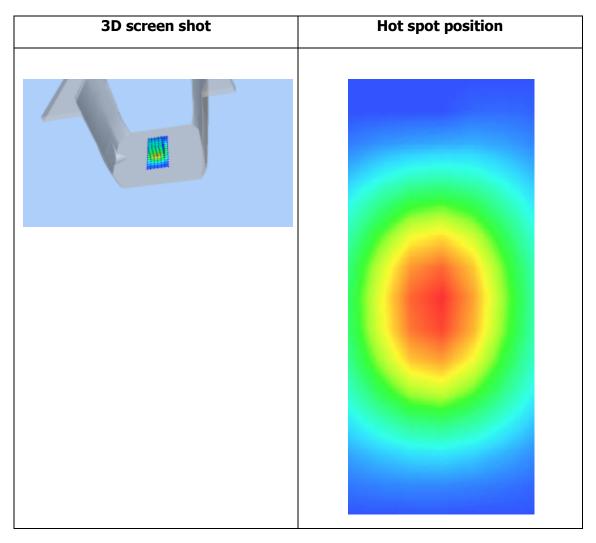


Maximum location: X=-1.00, Y=-1.00

SAR Peak: 6.26 W/kg

SAR 10g (W/Kg)	20.93533
SAR 1g (W/Kg)	39.32904





HEAD

Type: Validation measurement (Complete)

Date of measurement: 7/1/2017

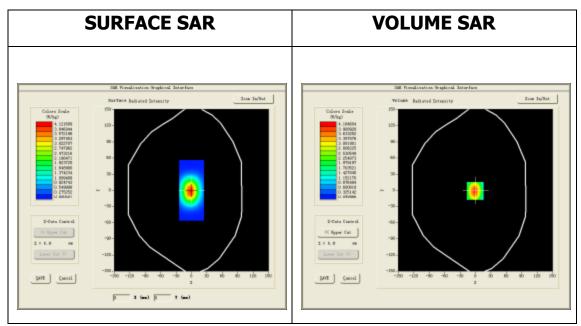
Measurement duration: 11 minutes 6 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=8mm dy=8mm
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<u>Phantom</u>	<u>Validation plane</u>
Device Position	<u>Dipole</u>
<u>Band</u>	<u>CW1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	CW (Duty cycle:1:1)

B. SAR Measurement Results

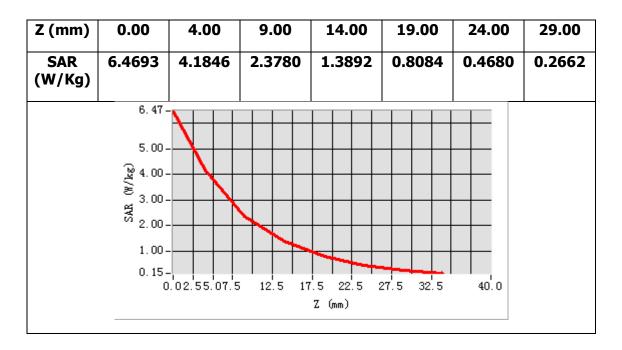
Frequency (MHz)	1900.000000
Relative permittivity (real part)	39.976398
Relative permittivity (imaginary part)	13.386300
Conductivity (S/m)	1.412998
Variation (%)	-0.040000

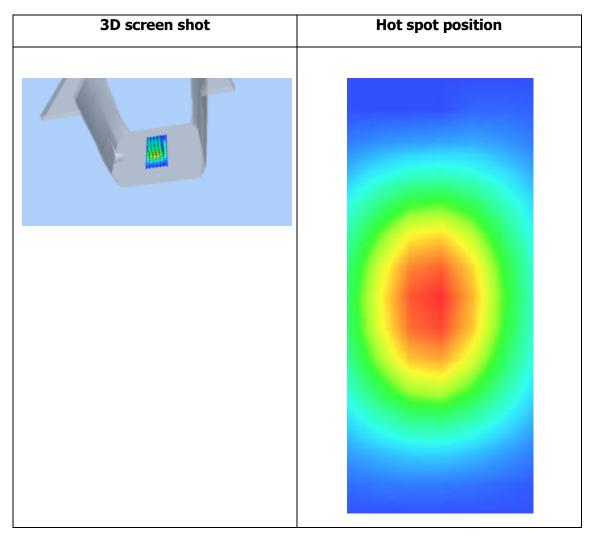


Maximum location: X=-1.00, Y=-1.00

SAR Peak: 6.48 W/kg

SAR 10g (W/Kg)	21.07104
SAR 1g (W/Kg)	39.97625





BODY

Type: Validation measurement (Complete)

Date of measurement: 9/1/2017

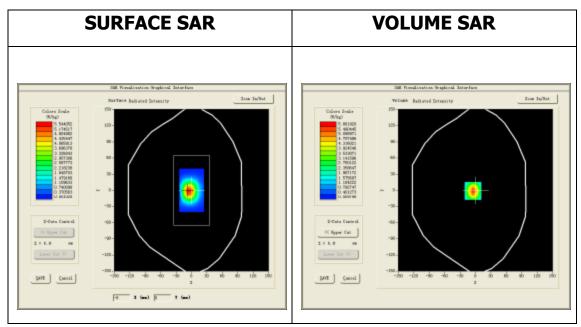
Measurement duration: 9 minutes 46 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=8mm dy=8mm
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<u>Phantom</u>	<u>Validation plane</u>
Device Position	<u>Dipole</u>
<u>Band</u>	<u>CW2450</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	CW (Duty cycle:1:1)

B. SAR Measurement Results

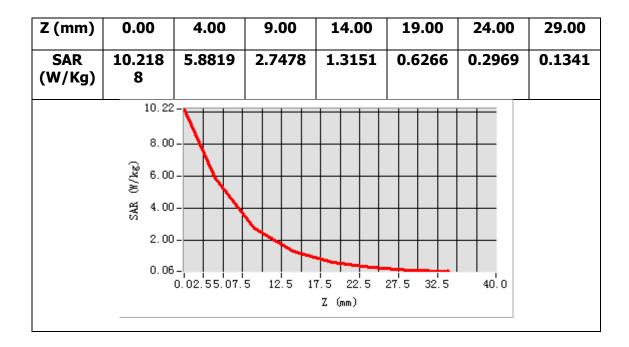
Frequency (MHz)	2450.000000
Relative permittivity (real part)	52.735699
Relative permittivity (imaginary part)	14.017300
Conductivity (S/m)	1.907910
Variation (%)	0.390000

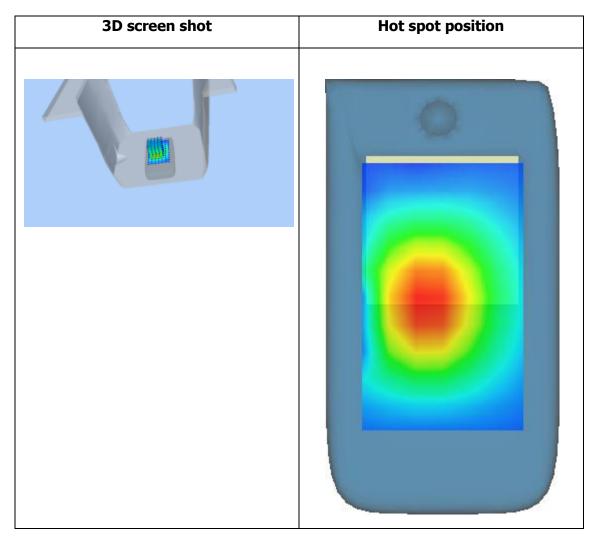


Maximum location: X=-5.00, Y=-1.00

SAR Peak: 10.96 W/kg

SAR 10g (W/Kg)	23.33453
SAR 1g (W/Kg)	54.33343





HEAD

Type: Validation measurement (Complete)

Date of measurement: 9/1/2017

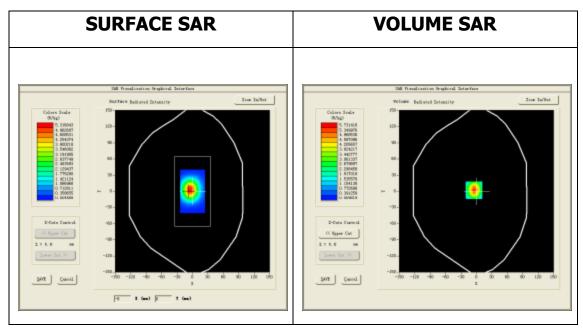
Measurement duration: 9 minutes 46 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=8mm dy=8mm
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<u>Phantom</u>	<u>Validation plane</u>
Device Position	<u>Dipole</u>
<u>Band</u>	<u>CW2450</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	CW (Duty cycle:1:1)

B. SAR Measurement Results

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

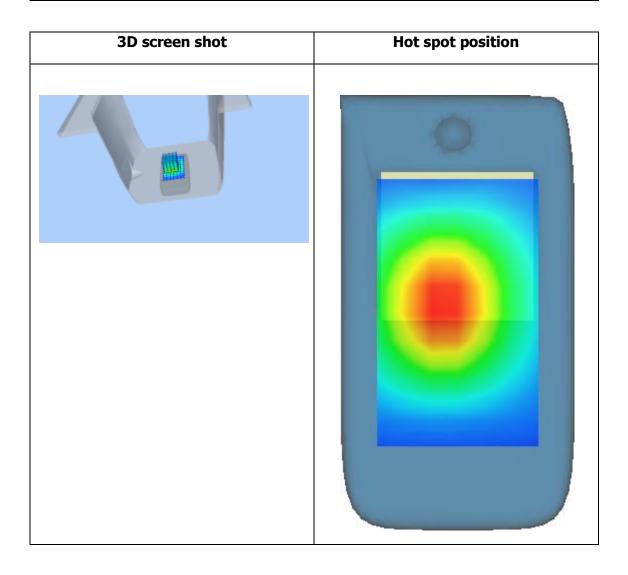


Maximum location: X=-5.00, Y=2.00

SAR Peak: 9.92 W/kg

SAR 10g (W/Kg)	24.52895
SAR 1g (W/Kg)	53.93069

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
	9.99-				, 		1
	8.00-	\longrightarrow					
	-00.8 (%) (%)	+					
	딸 4.00-	$+ \wedge$					
	2.00-						
	0.05 - 0	.	12.5 17	r.5 22.5 :	27.5 32.5	40.0	
	Z (mm)						



BODY

Type: Validation measurement (Complete)

Date of measurement: 10/1/2017

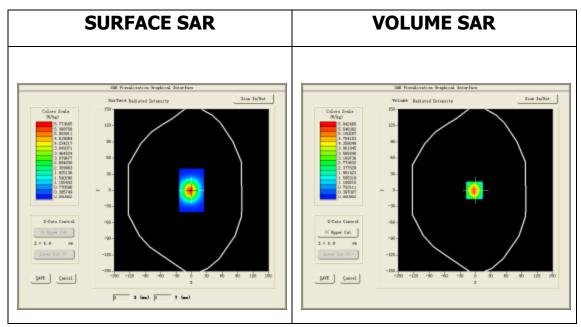
Measurement duration: 10 minutes 13 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=8mm dy=8mm	
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete	
<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>	CW (Duty cycle:1:1)	

B. SAR Measurement Results

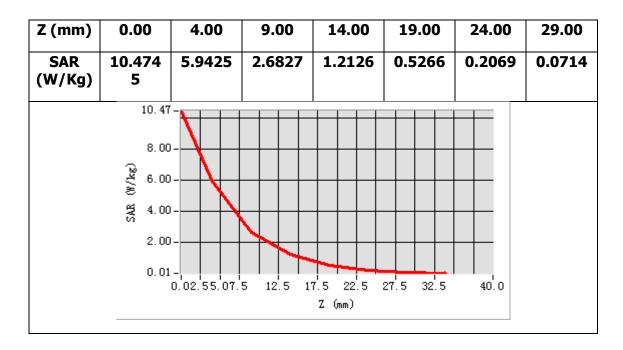
Frequency (MHz)	2600.000000
Relative permittivity (real part)	52.007900
Relative permittivity (imaginary part)	14.458500
Conductivity (S/m)	2.088450
Variation (%)	-0.220000

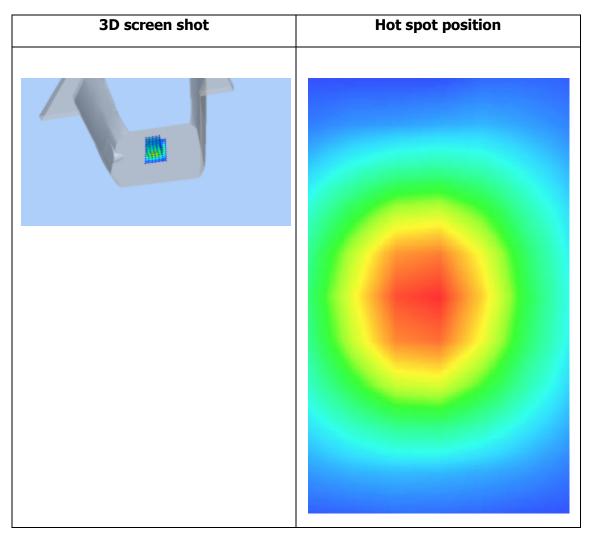


Maximum location: X=-2.00, Y=0.00

SAR Peak: 10.74 W/kg

SAR 10g (W/Kg)	25.59674
SAR 1g (W/Kg)	57.86435





HEAD

Type: Validation measurement (Complete)

Date of measurement: 10/1/2017

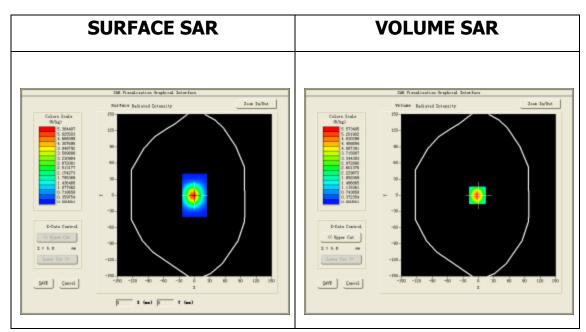
Measurement duration: 10 minutes 12 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=8mm dy=8mm	
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete	
<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>	CW (Duty cycle:1:1)	

B. SAR Measurement Results

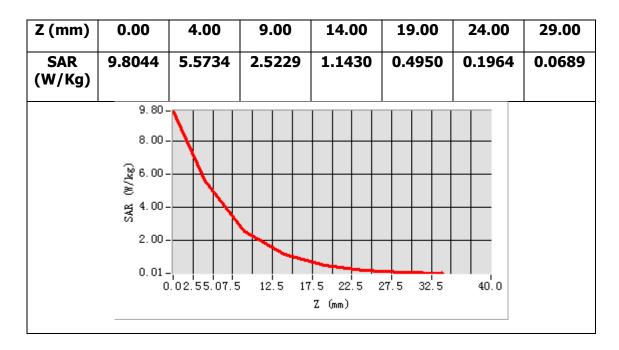
Frequency (MHz)	2600.000000
Relative permittivity (real part)	38.979599
Relative permittivity (imaginary part)	13.989700
Conductivity (S/m)	2.020734
Variation (%)	0.250000

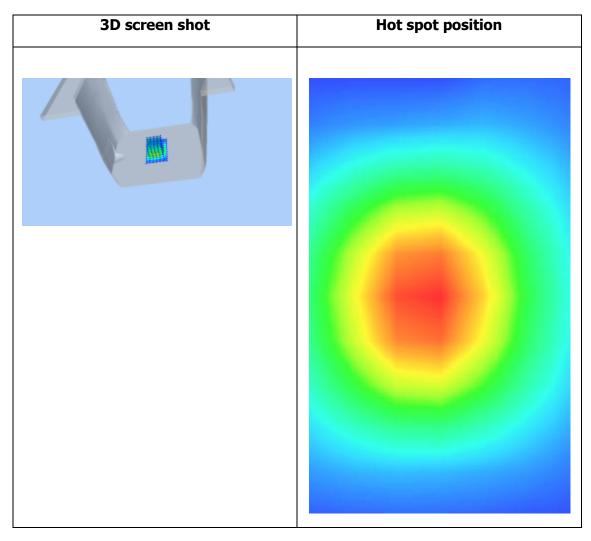


Maximum location: X=-2.00, Y=0.00

SAR Peak: 9.73 W/kg

SAR 10g (W/Kg)	23.42963
SAR 1g (W/Kg)	53.18259





HEAD

Type: Validation measurement (Complete)

Date of measurement: 17/1/2017

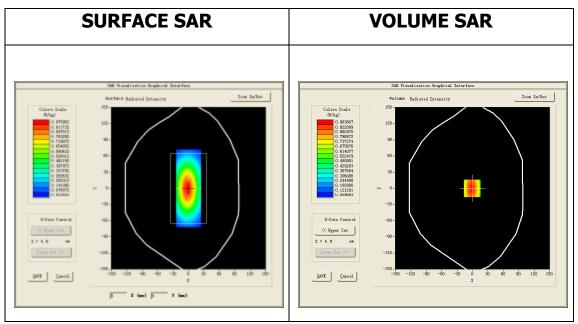
Measurement duration: 11 minutes 54 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=10mm dy=10mm
<u>ZoomScan</u>	8x8x7,dx=4mm dy=4mm dz=2mm,Complete
<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>	CW (Duty cycle:1:1)

B. SAR Measurement Results

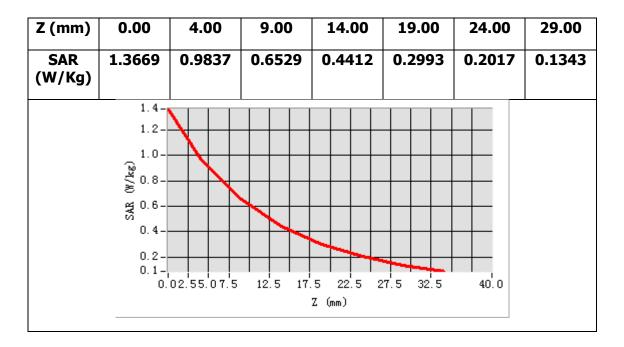
Frequency (MHz)	5200.000000
Relative permittivity (real part)	35.553182
Relative permittivity (imaginary part)	16.497414
Conductivity (S/m)	4.773841
Variation (%)	-0.070000

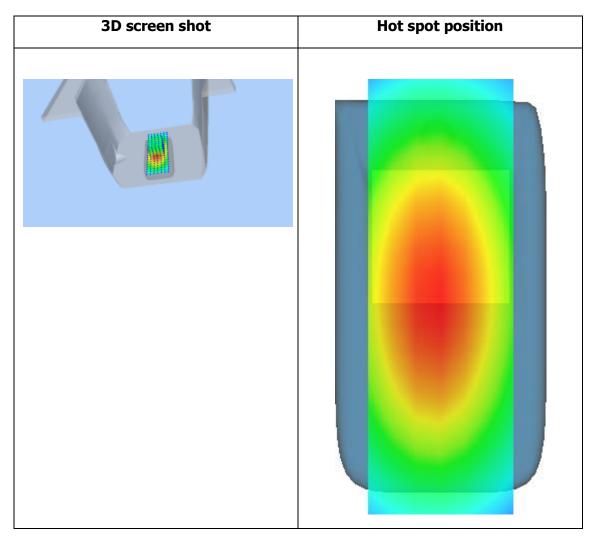


Maximum location: X=-1.00, Y=0.00

SAR Peak: 1.37 W/kg

SAR 10g (W/Kg)	56.79038
SAR 1g (W/Kg)	174.70083





BODY

Type: Validation measurement (Complete)

Date of measurement: 17/1/2017

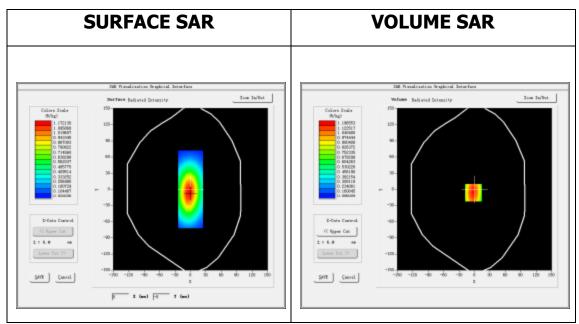
Measurement duration: 11 minutes 32 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=10mm dy=10mm
<u>ZoomScan</u>	8x8x7,dx=4mm dy=4mm dz=2mm,Complete
<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>	CW (Duty cycle:1:1)

B. SAR Measurement Results

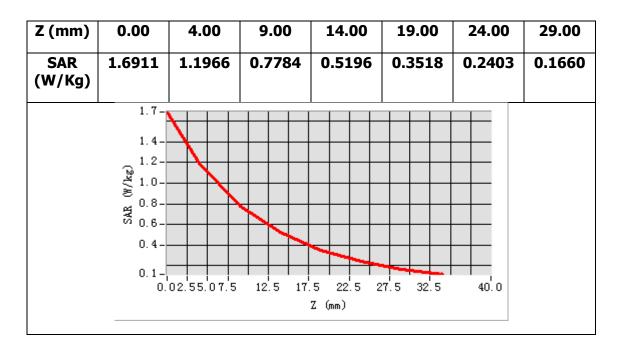
Frequency (MHz)	5200.000000
Relative permittivity (real part)	50.422599
Relative permittivity (imaginary part)	18.202492
Conductivity (S/m)	5.26371
Variation (%)	0.270000

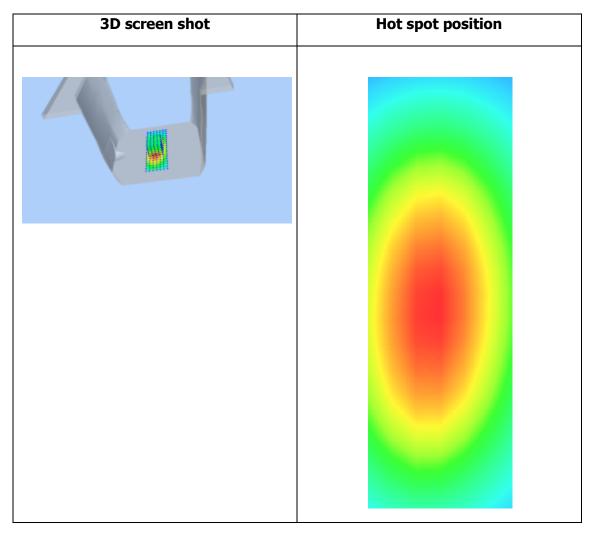


Maximum location: X=-2.00, Y=-6.00

SAR Peak: 1.69 W/kg

SAR 10g (W/Kg)	59.64065
SAR 1g (W/Kg)	167.17941





HEAD

Type: Validation measurement (Complete)

Date of measurement: 17/1/2017

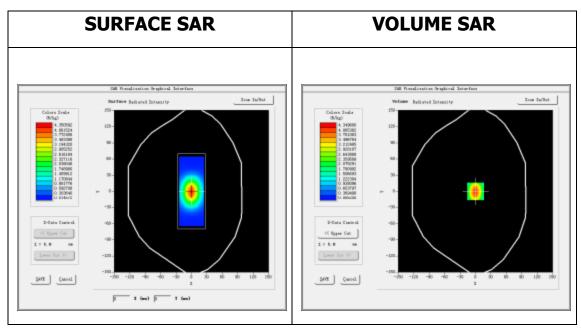
Measurement duration: 11 minutes 36 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=10mm dy=10mm	
<u>ZoomScan</u>	8x8x7,dx=4mm dy=4mm dz=2mm,Complete	
<u>Phantom</u>	<u>Validation plane</u>	
<u>Device Position</u>	<u>Dipole</u>	
<u>Band</u>	<u>CW5400</u>	
<u>Channels</u>	<u>Middle</u>	
<u>Signal</u>	CW (Duty cycle:1:1)	

B. SAR Measurement Results

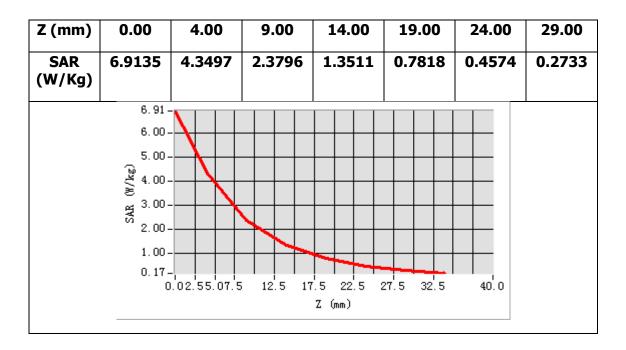
Frequency (MHz)	5400.000000
Relative permittivity (real part)	35.343199
Relative permittivity (imaginary part)	16.591080
Conductivity (S/m)	4.881334
Variation (%)	-0.620000

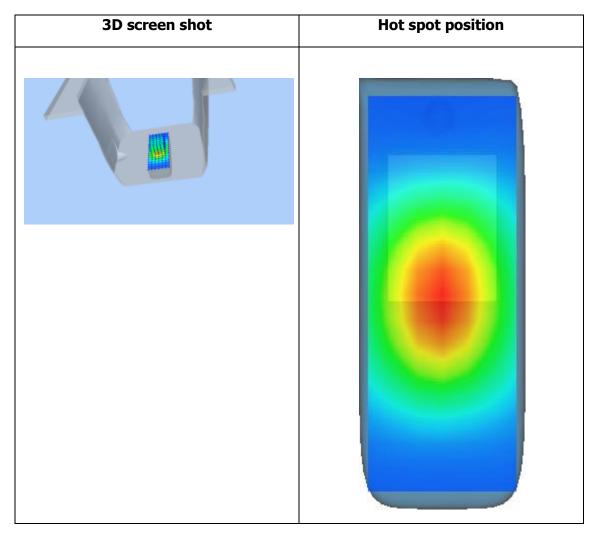


Maximum location: X=0.00, Y=0.00

SAR Peak: 6.87 W/kg

SAR 10g (W/Kg)	61.56046
SAR 1g (W/Kg)	177.95228





BODY

Type: Validation measurement (Complete)

Date of measurement: 17/1/2017

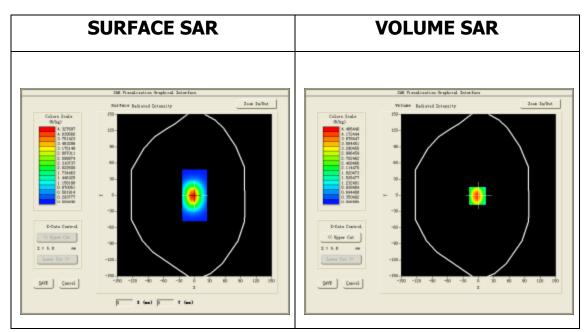
Measurement duration: 10 minutes 36 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=10mm dy=10mm	
<u>ZoomScan</u>	8x8x7,dx=4mm dy=4mm dz=2mm,Complete	
<u>Phantom</u>	<u>Validation plane</u>	
<u>Device Position</u>	<u>Dipole</u>	
<u>Band</u>	<u>CW5400</u>	
<u>Channels</u>	<u>Middle</u>	
<u>Signal</u>	CW (Duty cycle:1:1)	

B. SAR Measurement Results

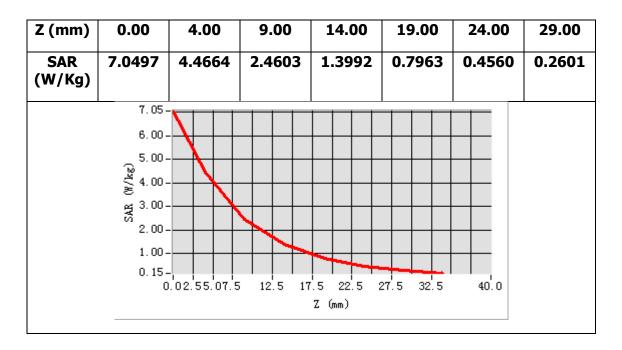
Frequency (MHz)	5400.000000
Relative permittivity (real part)	47.944300
Relative permittivity (imaginary part)	18.167566
Conductivity (S/m)	5.353919
Variation (%)	-0.350000

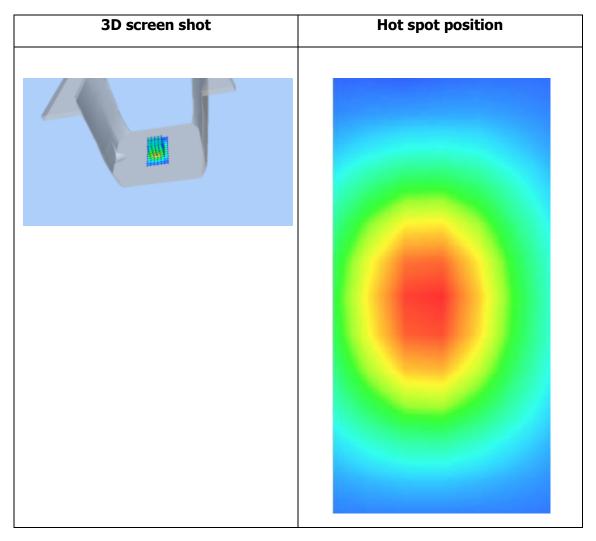


Maximum location: X=-2.00, Y=-1.00

SAR Peak: 7.04 W/kg

SAR 10g (W/Kg)	58.82132
SAR 1g (W/Kg)	165.37029





HEAD

Type: Validation measurement (Complete)

Date of measurement: 17/1/2017

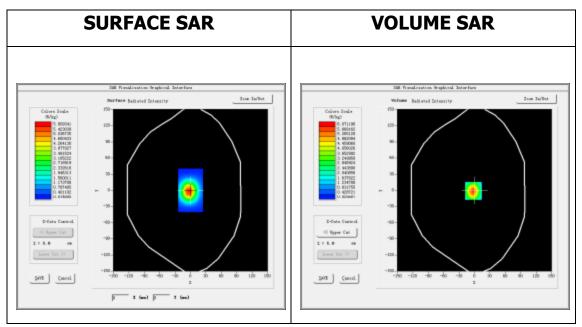
Measurement duration: 9 minutes 59 seconds

A. Experimental conditions.

<u>Area Scan</u>	dx=10mm dy=10mm	
<u>ZoomScan</u>	8x8x7,dx=4mm dy=4mm dz=2mm,Complete	
<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>	CW (Duty cycle:1:1)	

B. SAR Measurement Results

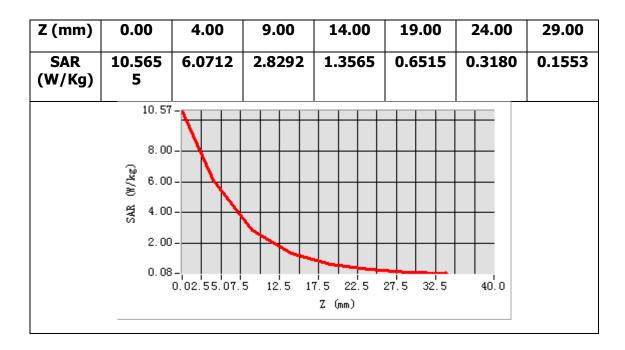
Frequency (MHz)	5800.000000
Relative permittivity (real part)	34.225599
Relative permittivity (imaginary part)	16.160852
Conductivity (S/m)	5.211844
Variation (%)	0.050000

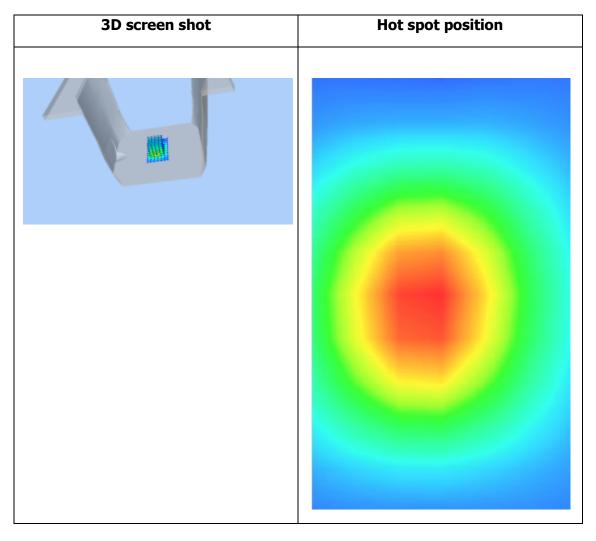


Maximum location: X=-2.00, Y=-1.00

SAR Peak: 10.54 W/kg

SAR 10g (W/Kg)	63.34043
SAR 1g (W/Kg)	185.19149





BODY

Type: Validation measurement (Complete)

Date of measurement: 17/1/2017

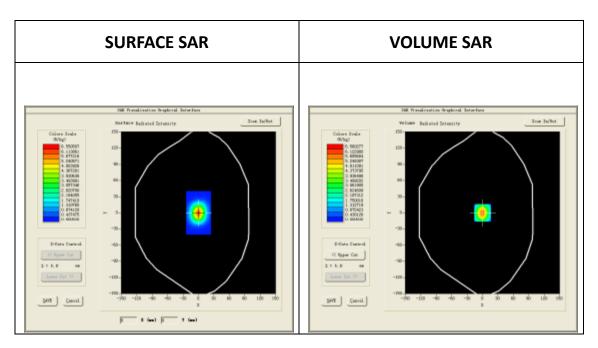
Measurement duration: 10 minutes 36 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

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: 11.49 W/kg

SAR 10g (W/Kg)	60.79996
SAR 1g (W/Kg)	179.65831

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	11.6340	6.5603	2.8797	1.2004	0.4226	0.1066	0.0008
(W/Kg)							
	11.63 10.00 8.00 6.00 4.00 2.00 0.00		5 12.5 1	7.5 22.5 Z (mm)	27.5 32.5	40.0	

