



Annex C Plots of System Performance Check

System Performance Check Data (750MHz Head)

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2018.06.23

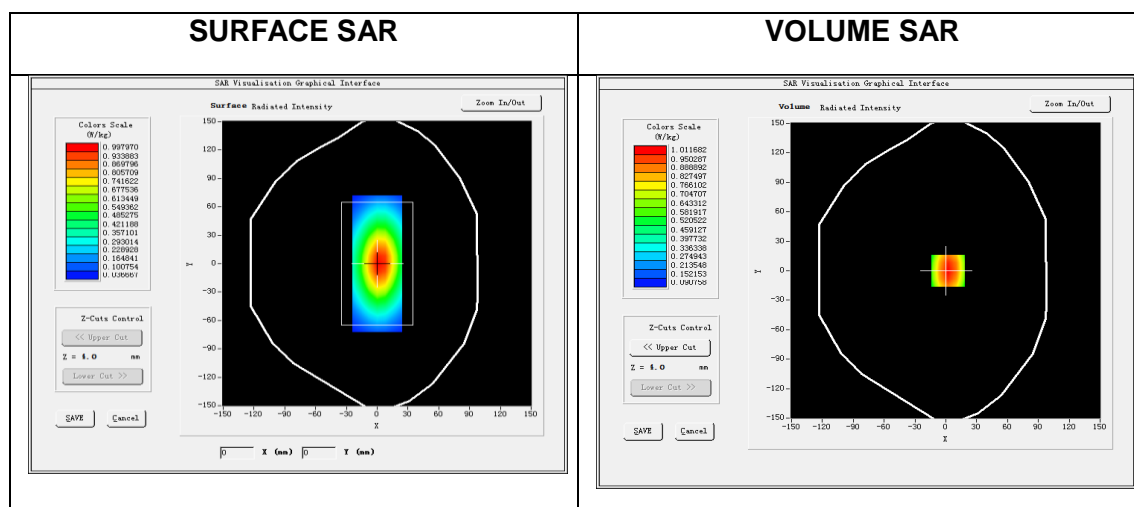
Measurement duration: 13 minutes 28 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Flat
Device Position	
Band	750MHz
Channels	
Signal	CW

B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative permittivity (real part)	41.350601
Conductivity (S/m)	0.885608
Power drift (%)	1.030000
Ambient Temperature:	22.6°C
Liquid Temperature:	21.2°C
ConvF:	6.44
Crest factor:	1:1

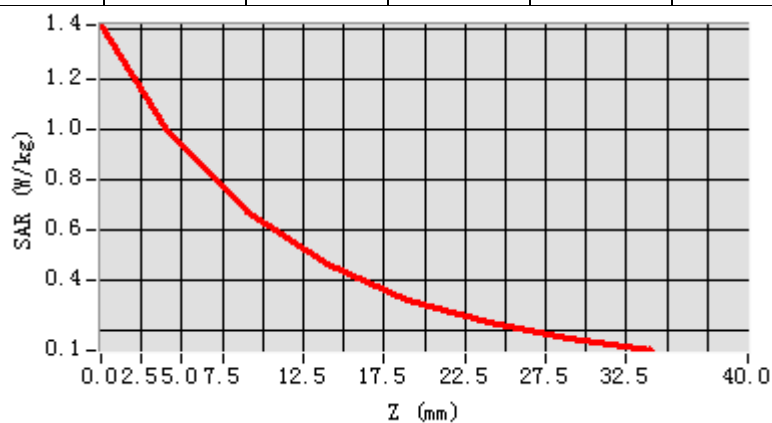


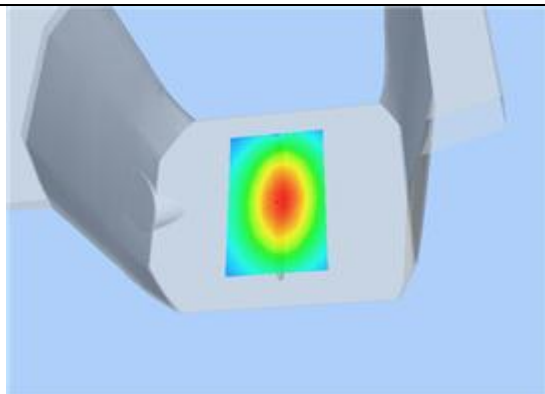
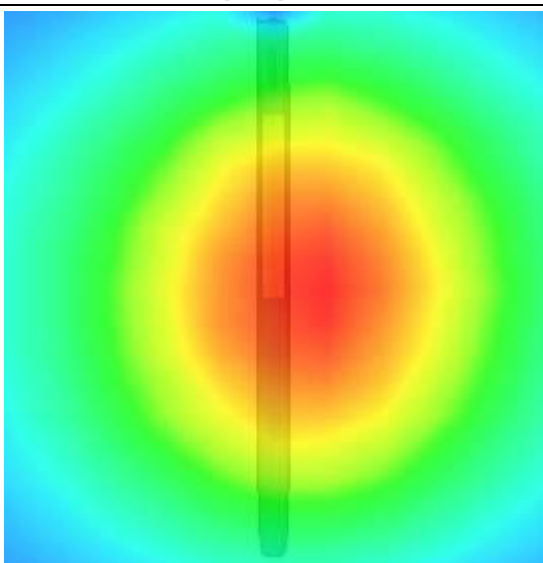
Maximum location: X=2.00, Y=0.00

SAR 10g (W/Kg)	0.539271
SAR 1g (W/Kg)	0.783215

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.4197	1.0117	0.6692	0.4600	0.3210	0.2279	0.1624



3D scene shot	Hot spot position
	

**System Performance Check Data (750MHz Body)**

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2018.06.25

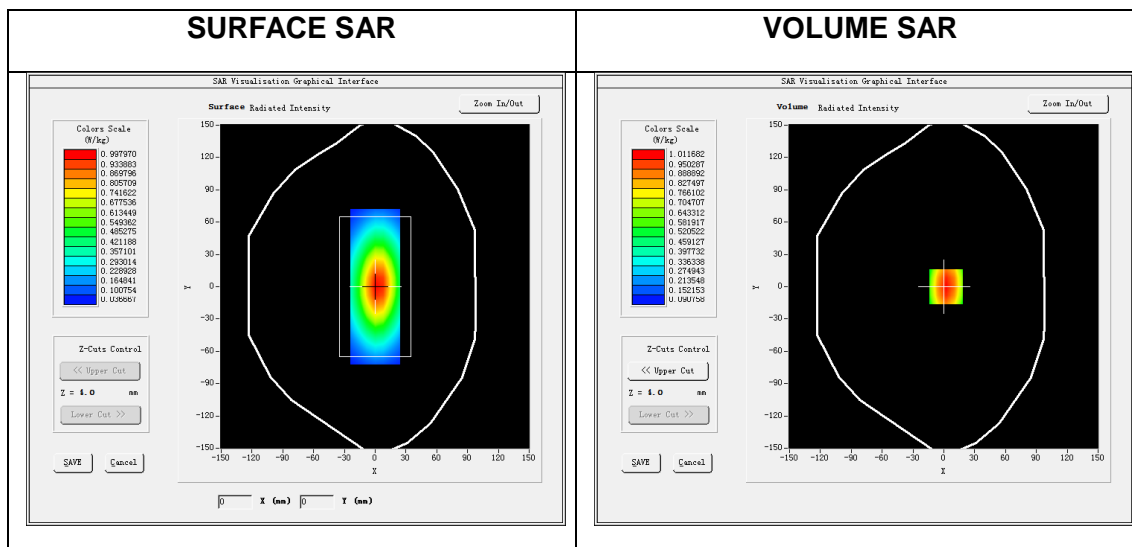
Measurement duration: 13 minutes 36 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Flat
Device Position	
Band	750MHz
Channels	
Signal	CW

B. SAR Measurement Results**Band SAR**

Frequency (MHz)	750.000000
Relative permittivity (real part)	53.517799
Conductivity (S/m)	1.031025
Power drift (%)	0.320000
Ambient Temperature:	22.6°C
Liquid Temperature:	21.2°C
ConvF:	6.68
Crest factor:	1:1

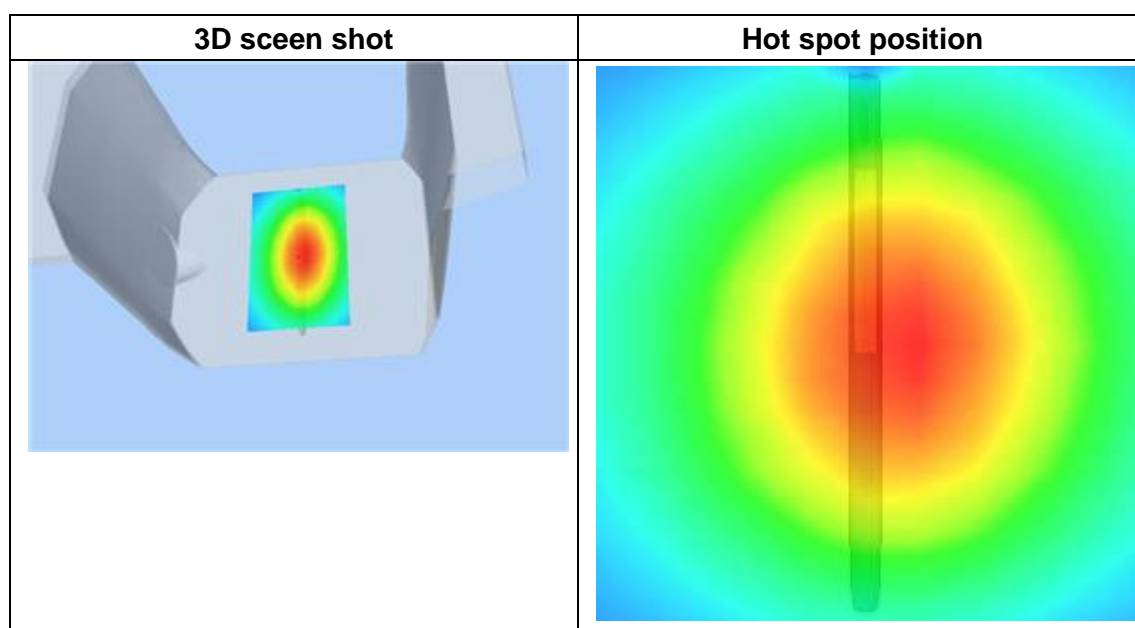
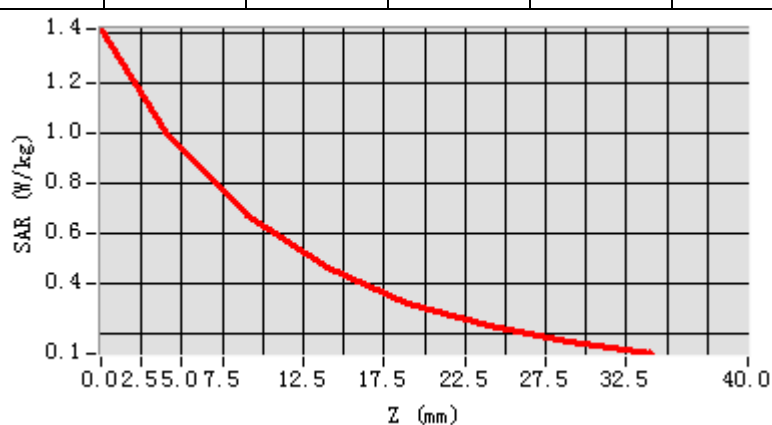


Maximum location: X=2.00, Y=0.00

SAR 10g (W/Kg)	0.609663
SAR 1g (W/Kg)	0.905411

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.4197	1.0117	0.6692	0.4600	0.3210	0.2279	0.1624



**System Performance Check Data (835MHz Head)**

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2018.06.23

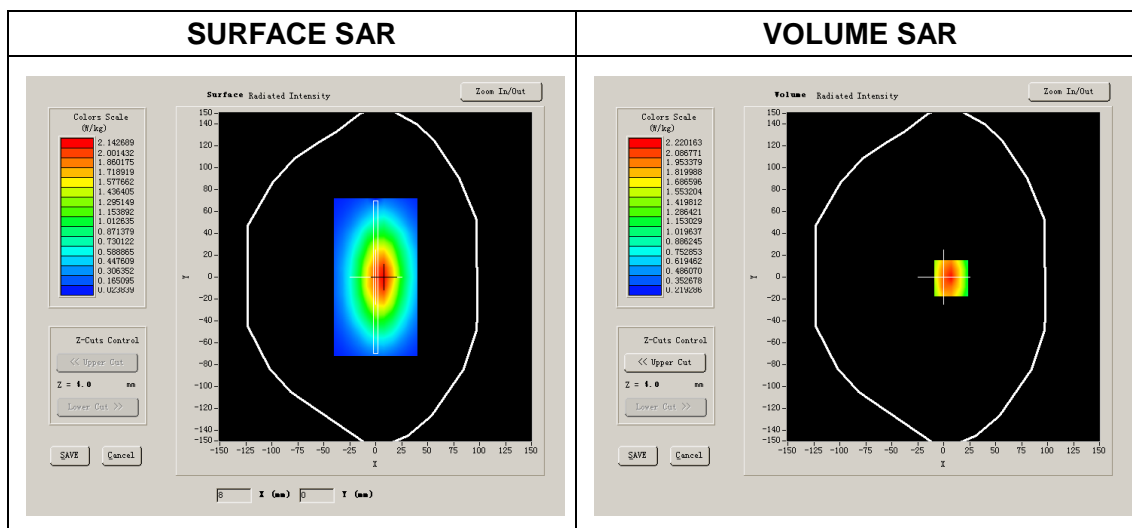
Measurement duration: 13 minutes 35 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Flat
Device Position	
Band	835MHz
Channels	
Signal	CW

B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.891718
Power drift (%)	1.070000
Ambient Temperature:	22.6°C
Liquid Temperature:	21.2°C
ConvF:	6.13
Crest factor:	1:1

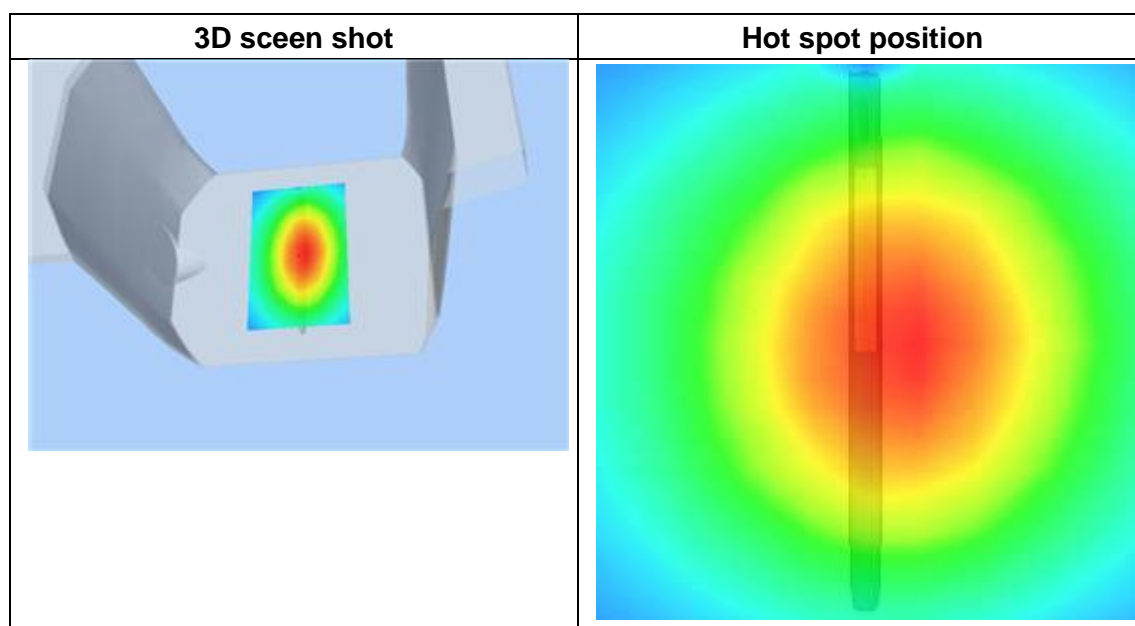
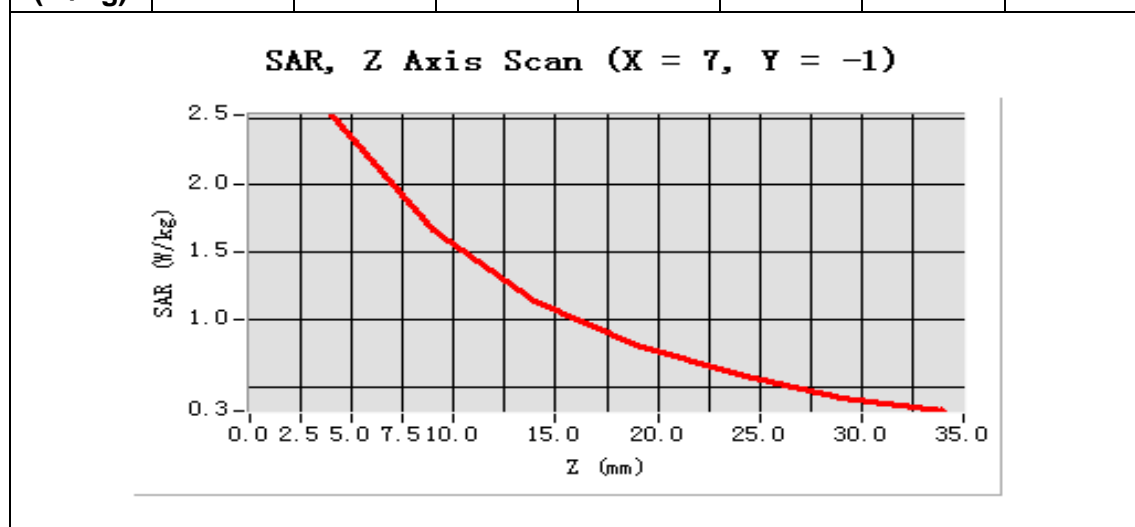


Maximum location: X=7.00, Y=-1.00

SAR 10g (W/Kg)	0.622151
SAR 1g (W/Kg)	0.968476

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	2.5209	1.6629	1.1437	0.8075	0.5889	0.4143





System Performance Check Data (835MHz Body)

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2018.06.25

Measurement duration: 13 minutes 28 seconds

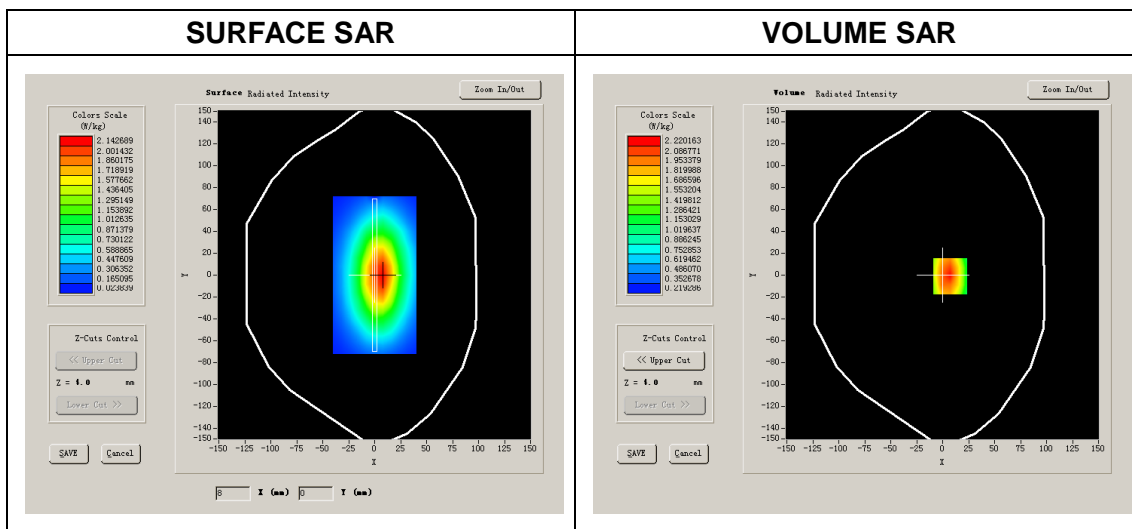
A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Flat
Device Position	
Band	835MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

Frequency (MHz)	835.000000
Relative permittivity (real part)	55.382291
Conductivity (S/m)	0.972171
Power drift (%)	1.070000
Ambient Temperature:	22.6°C
Liquid Temperature:	21.2°C
ConvF:	6.37
Crest factor:	1:1

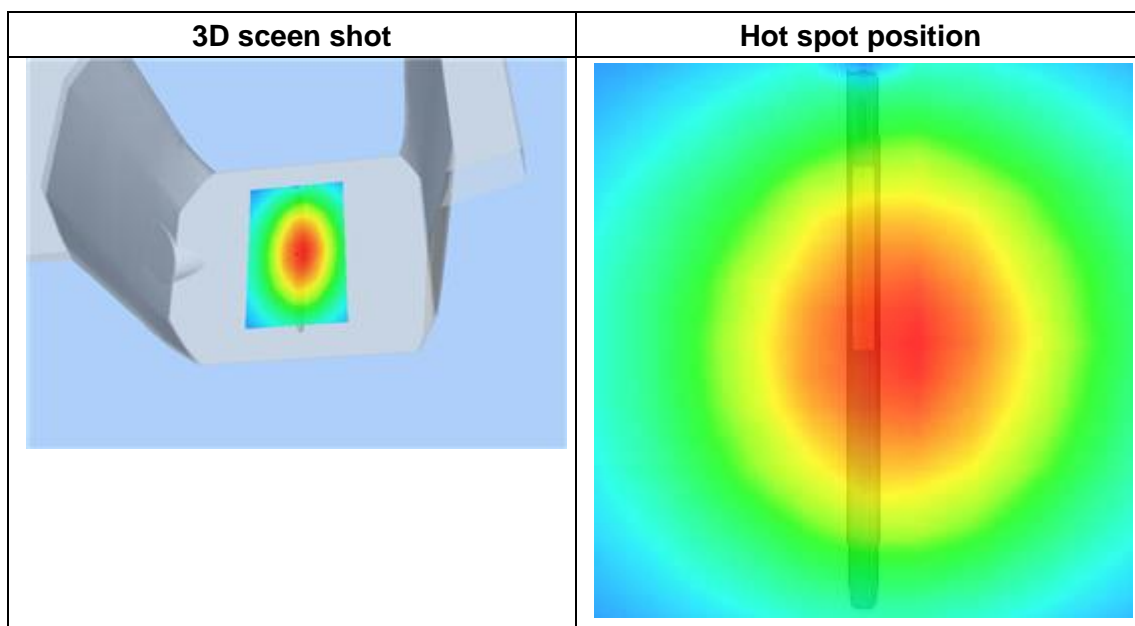
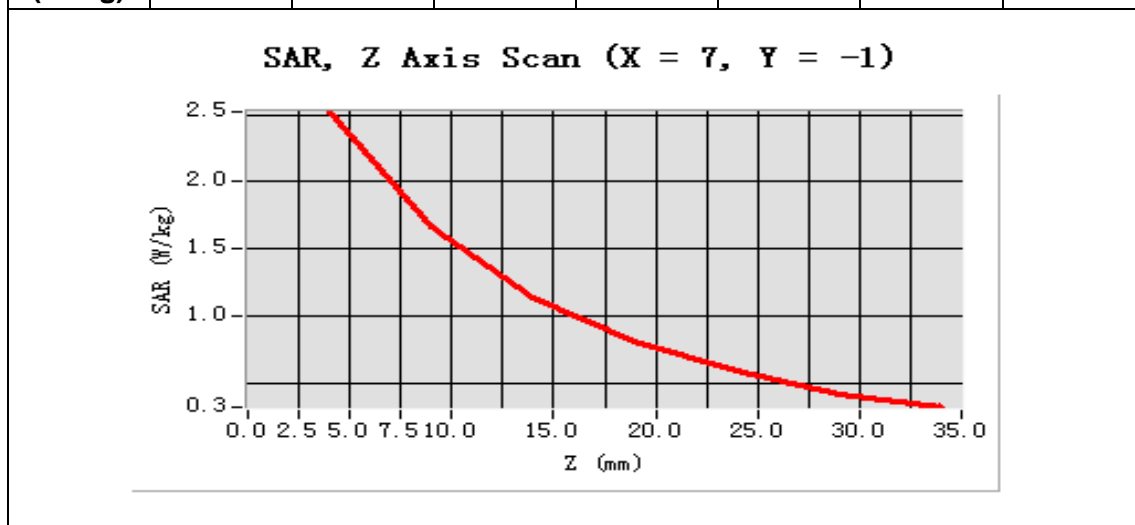


Maximum location: X=7.00, Y=-1.00

SAR 10g (W/Kg)	0.629151
SAR 1g (W/Kg)	0.986576

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	2.5209	1.6629	1.1437	0.8075	0.5889	0.4143



**System Performance Check Data(1800MHz Head)**

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2018.06.19

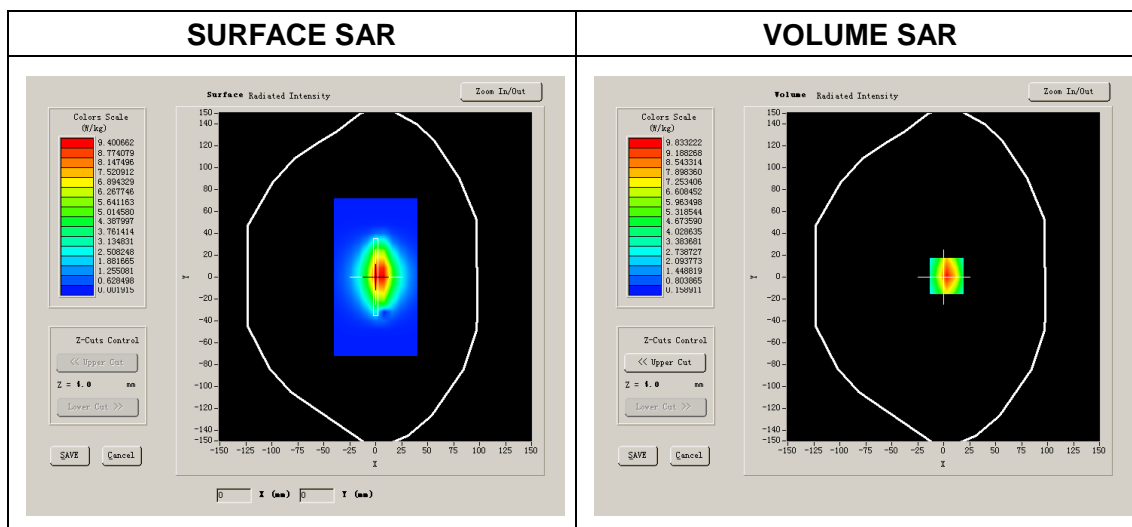
Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Flat
Device Position	
Band	1800MHz
Channels	
Signal	CW

B. SAR Measurement Results**Band SAR**

Frequency (MHz)	1800.000000
Relative permittivity (real part)	40.095167
Conductivity (S/m)	1.365073
Power drift (%)	0.310000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.6°C
ConvF:	5.21
Crest factor:	1:1



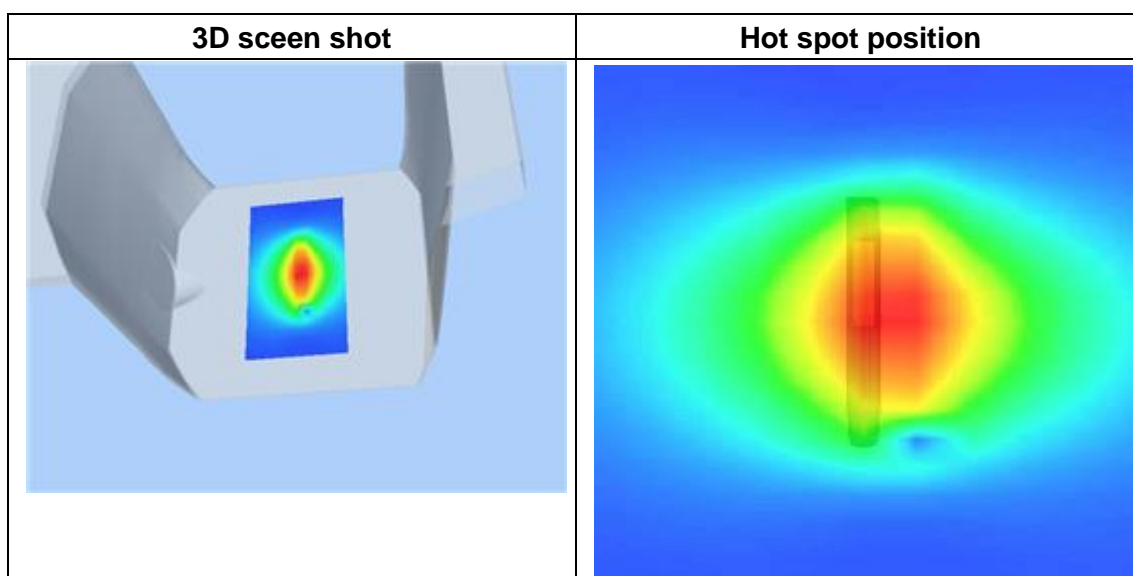
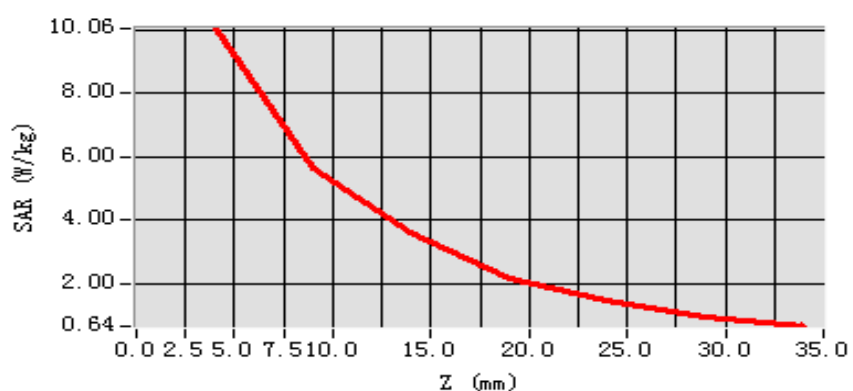
Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.048386
SAR 1g (W/Kg)	3.698154

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.0621	5.6445	3.6226	2.1642	1.4521	0.9078

SAR, Z Axis Scan (X = 3, Y = 1)



**System Performance Check Data(1800MHz Body)**

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2018.06.24

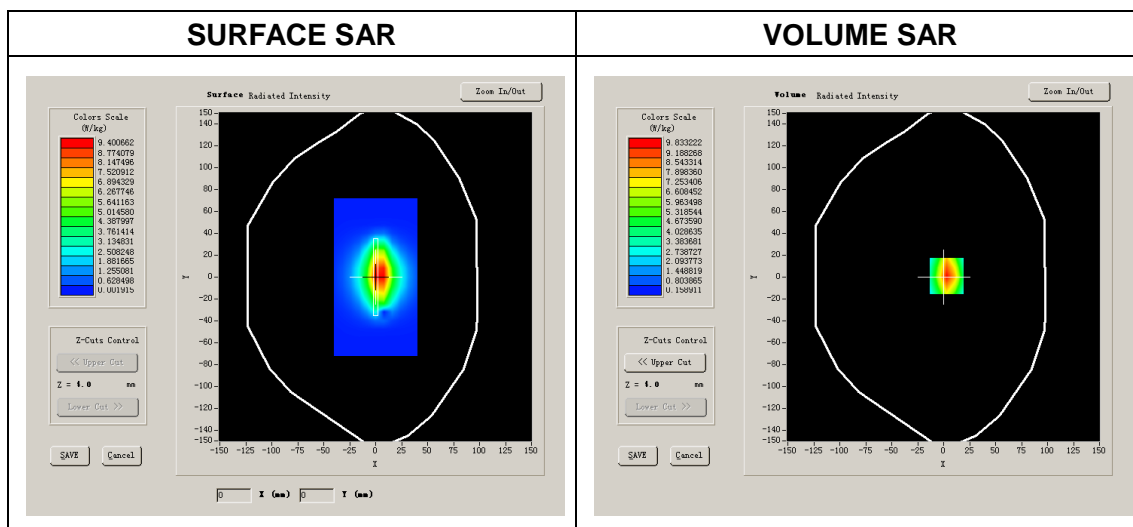
Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Flat
Device Position	
Band	1800MHz
Channels	
Signal	CW

B. SAR Measurement Results**Band SAR**

Frequency (MHz)	1800.000000
Relative permittivity (real part)	53.295167
Conductivity (S/m)	1.515073
Power drift (%)	0.310000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.6°C
ConvF:	5.38
Crest factor:	1:1



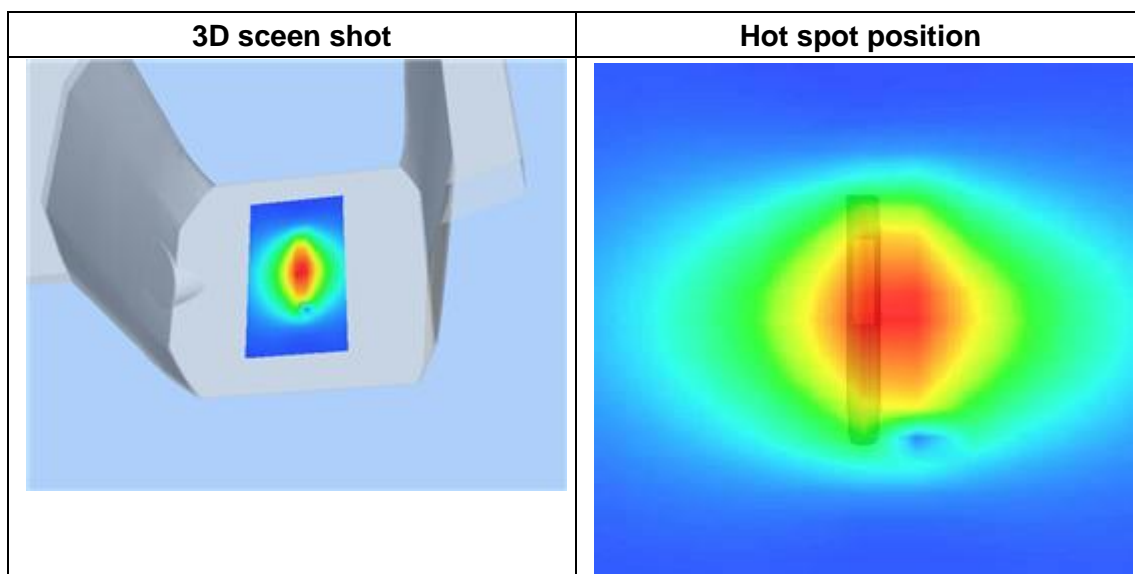
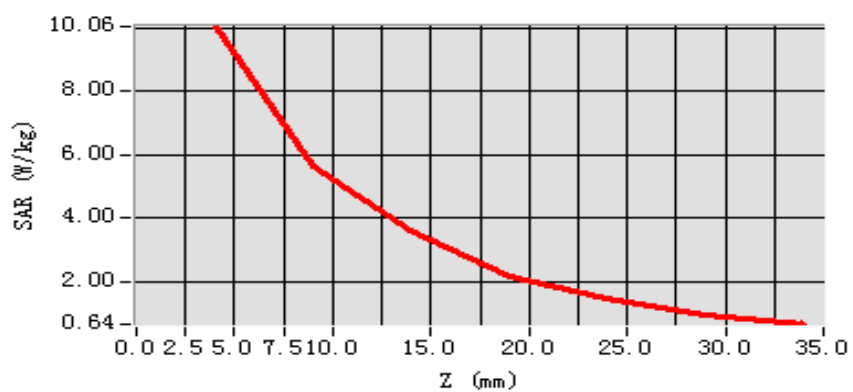
Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.038386
SAR 1g (W/Kg)	3.753454

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.0621	5.6445	3.6226	2.1642	1.4521	0.9078

SAR, Z Axis Scan (X = 3, Y = 1)



**System Performance Check Data(2000MHz Head)**

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2018.06.19

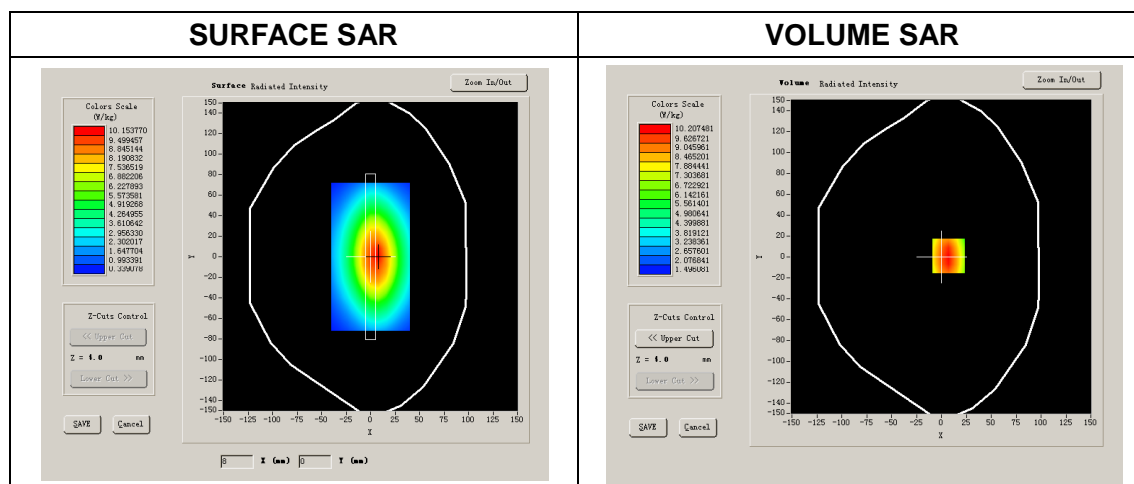
Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Flat
Device Position	
Band	2000MHz
Channels	
Signal	CW

B. SAR Measurement Results**Band SAR**

Frequency (MHz)	2000.000000
Relative permittivity (real part)	39.984477
Conductivity (S/m)	1.414283
Power drift (%)	-0.830000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.4°C
ConvF:	5.61
Crest factor:	1:1

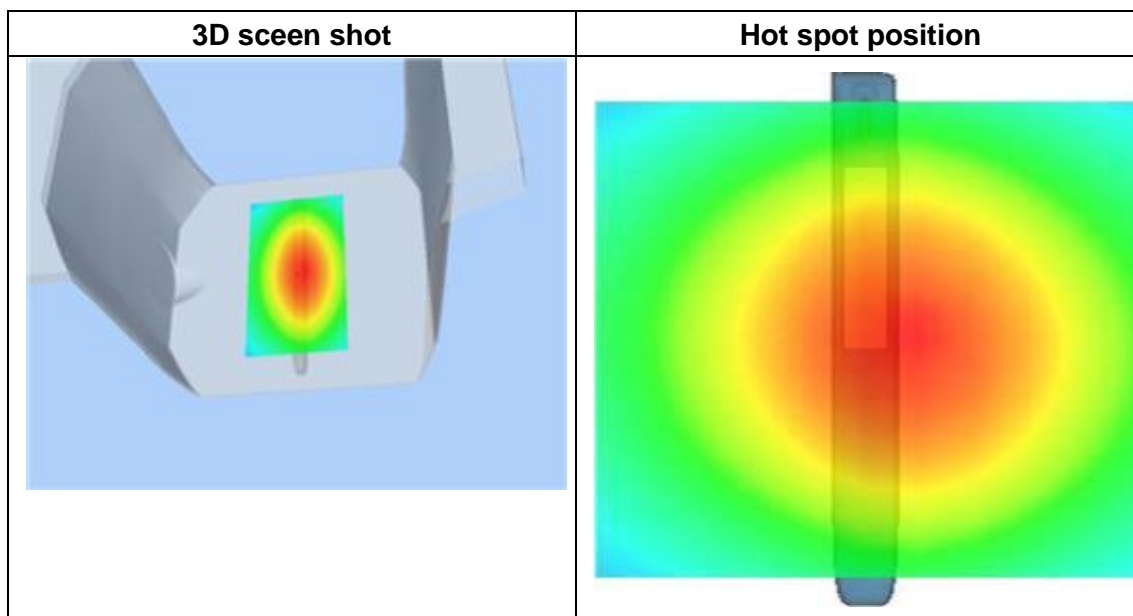
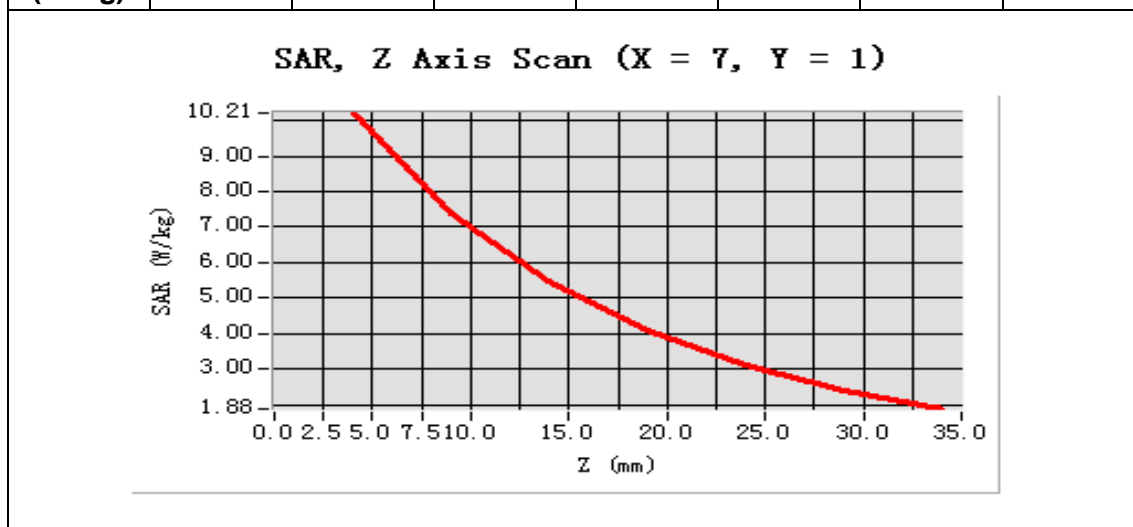


Maximum location: X=7.00, Y=1.00

SAR 10g (W/Kg)	1.992518
SAR 1g (W/Kg)	4.255954

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.2075	7.3996	5.4654	4.1101	3.1286	2.4128



**System Performance Check Data(2000MHz Body)**

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2018.06.24

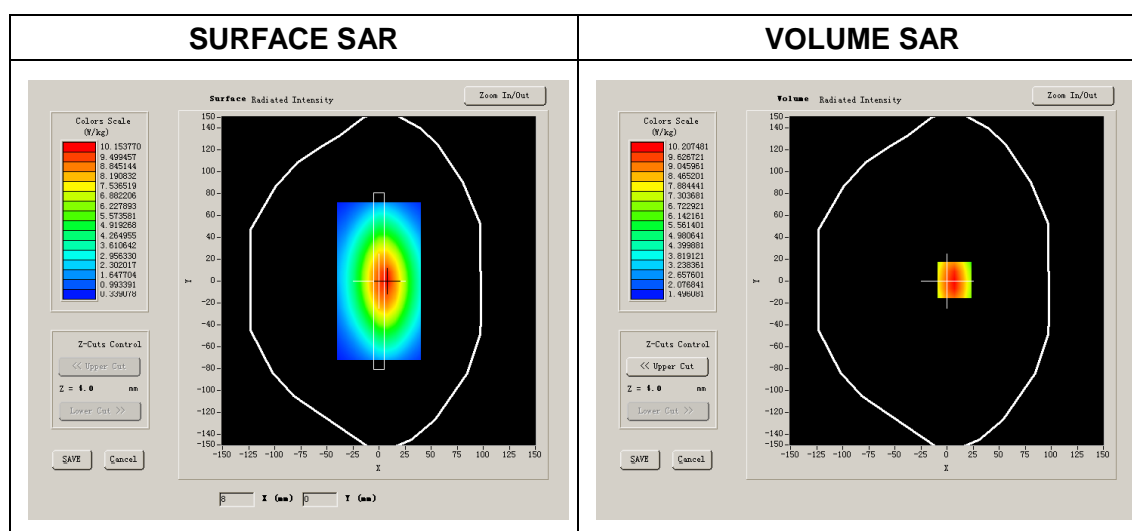
Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Flat
Device Position	
Band	2000MHz
Channels	
Signal	CW

B. SAR Measurement Results**Band SAR**

Frequency (MHz)	2000.000000
Relative permittivity (real part)	53.285167
Conductivity (S/m)	1.514073
Power drift (%)	-1.860000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.4°C
ConvF:	5.71
Crest factor:	1:1

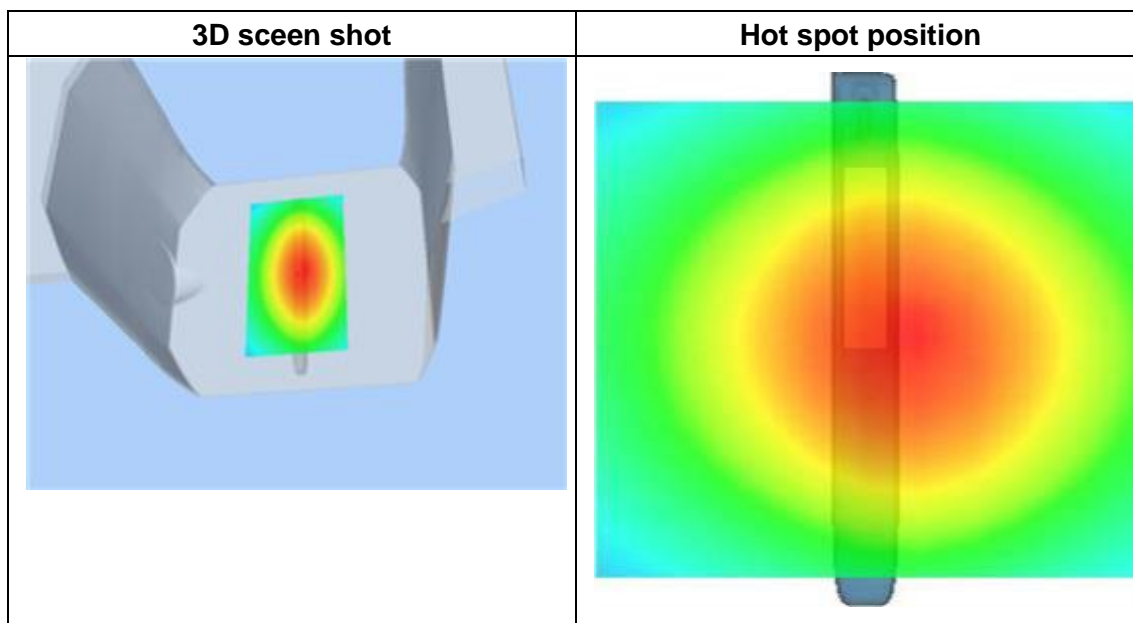
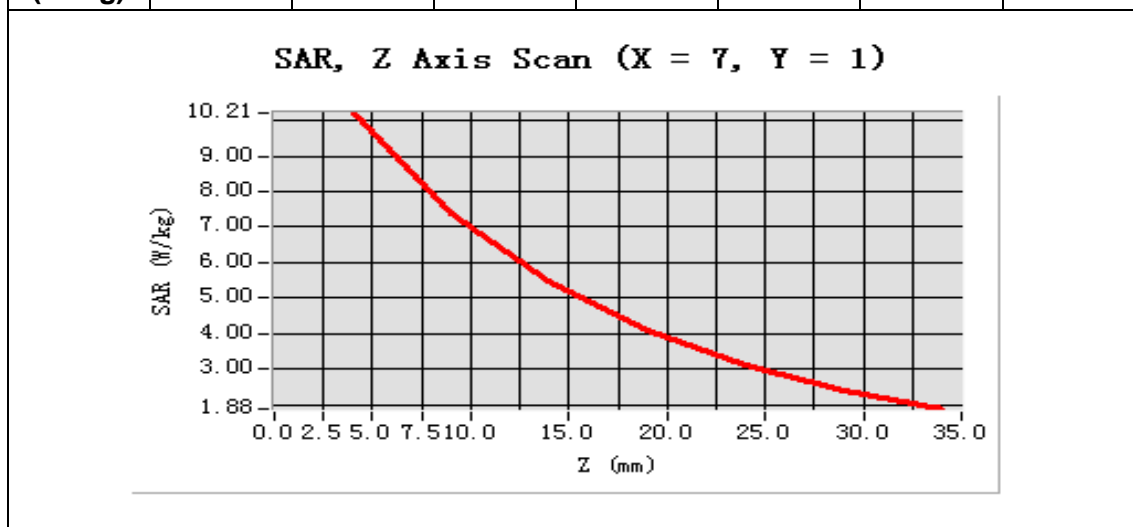


Maximum location: X=7.00, Y=1.00

SAR 10g (W/Kg)	2.092518
SAR 1g (W/Kg)	4.119540

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.2075	7.3996	5.4654	4.1101	3.1286	2.4128



**System Performance Check Data(2450MHz Head)**

Type: Phone measurement (Complete)

Area scan resolution: dx=12mm,dy=12mm

Zoom scan resolution: dx=5mm, dy=5mm, dz=4mm

Date of measurement: 2018.06.21

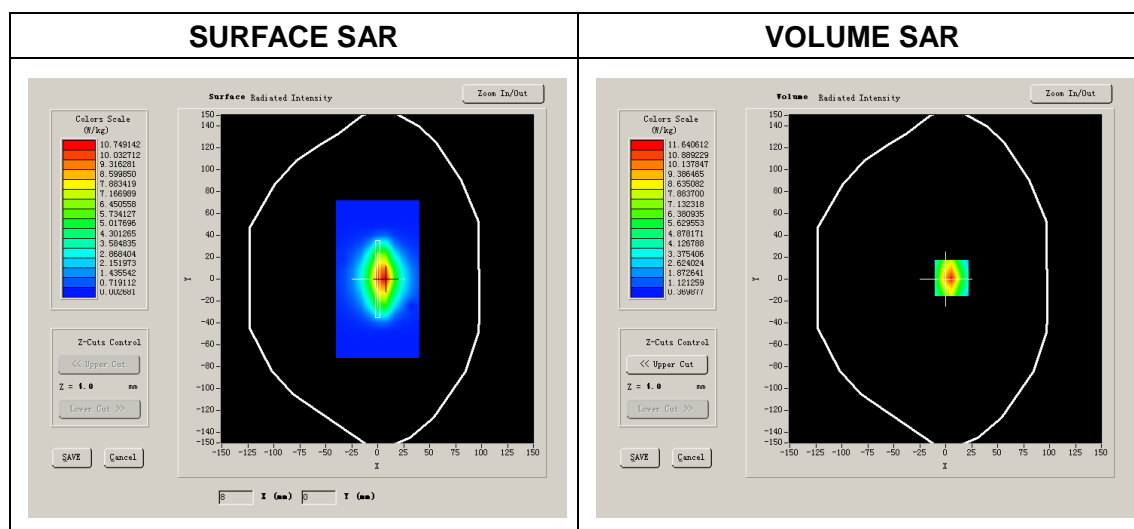
Measurement duration: 13 minutes 31 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Flat
Device Position	
Band	2450MHz
Channels	
Signal	CW

B. SAR Measurement Results**Band SAR**

Frequency (MHz)	2450.000000
Relative permittivity (real part)	39.284446
Conductivity (S/m)	1.836061
Power Drift (%)	1.080000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.8°C
ConvF:	4.82
Crest factor:	1:1

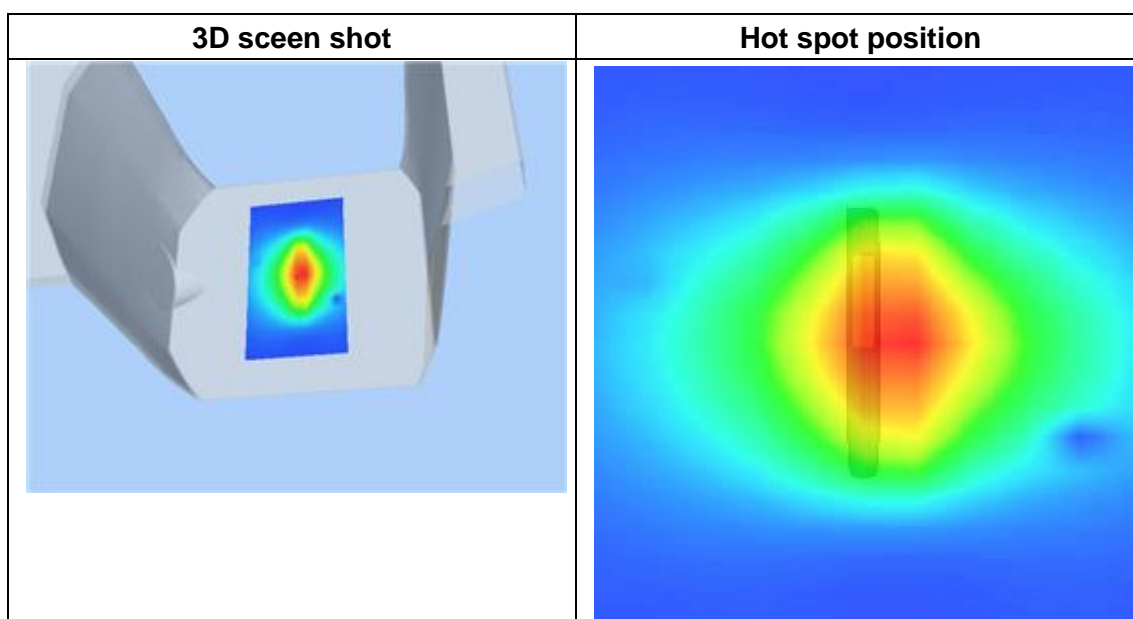
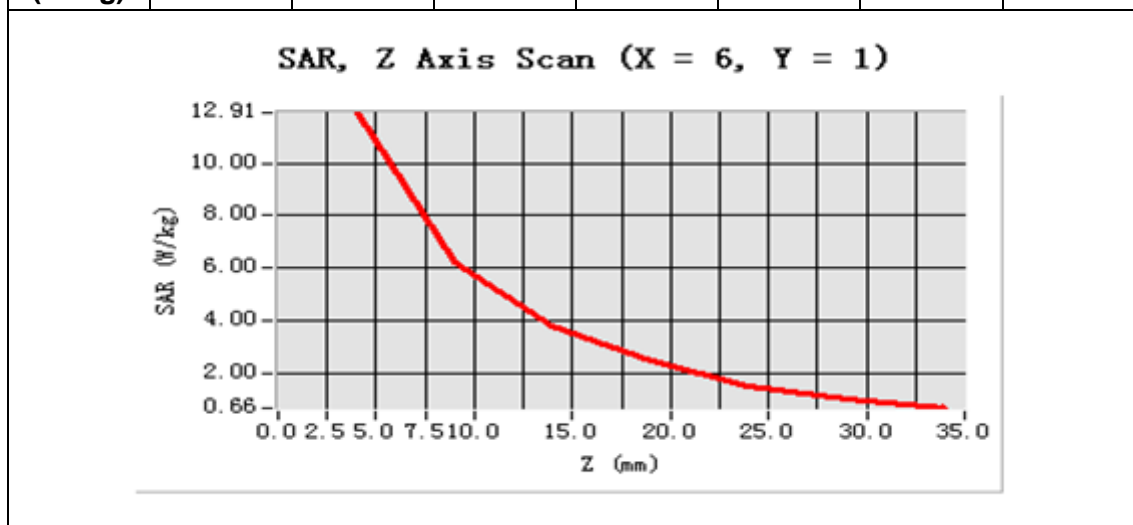


Maximum location: X=6.00, Y=1.00

SAR 10g (W/Kg)	2.377250
SAR 1g (W/Kg)	5.326074

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	12.9615	6.2096	3.8187	2.4504	1.5036	1.0219



**System Performance Check Data(2450MHz Body)**

Type: Phone measurement (Complete)

Area scan resolution: dx=12mm,dy=12mm

Zoom scan resolution: dx=5mm, dy=5mm, dz=4mm

Date of measurement: 2018.06.21

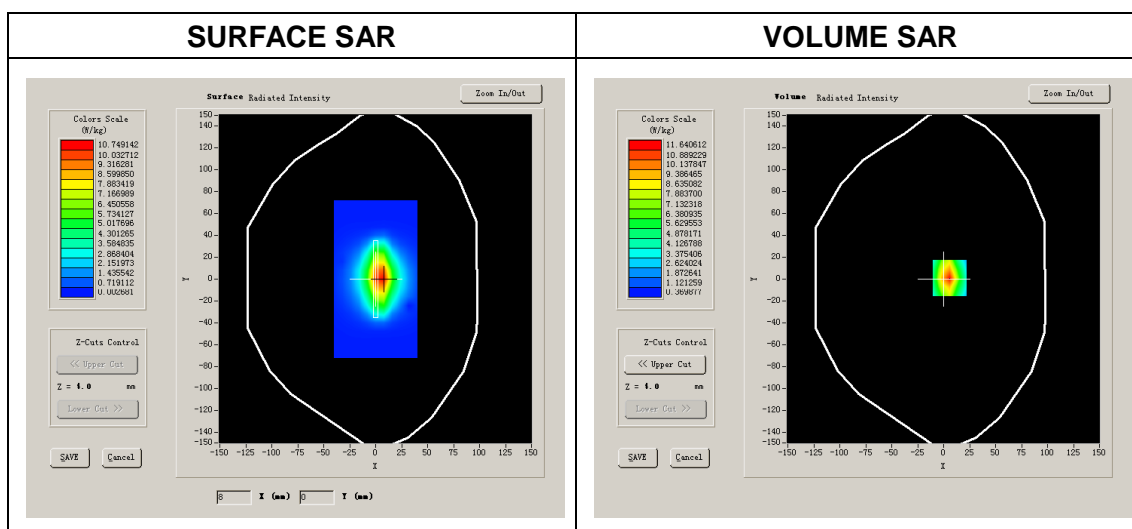
Measurement duration: 13 minutes 31 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Flat
Device Position	
Band	2450MHz
Channels	
Signal	CW

B. SAR Measurement Results**Band SAR**

Frequency (MHz)	2450.000000
Relative permittivity (real part)	52.884446
Conductivity (S/m)	1.966143
Power Drift (%)	1.080000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.8°C
ConvF:	4.93
Crest factor:	1:1

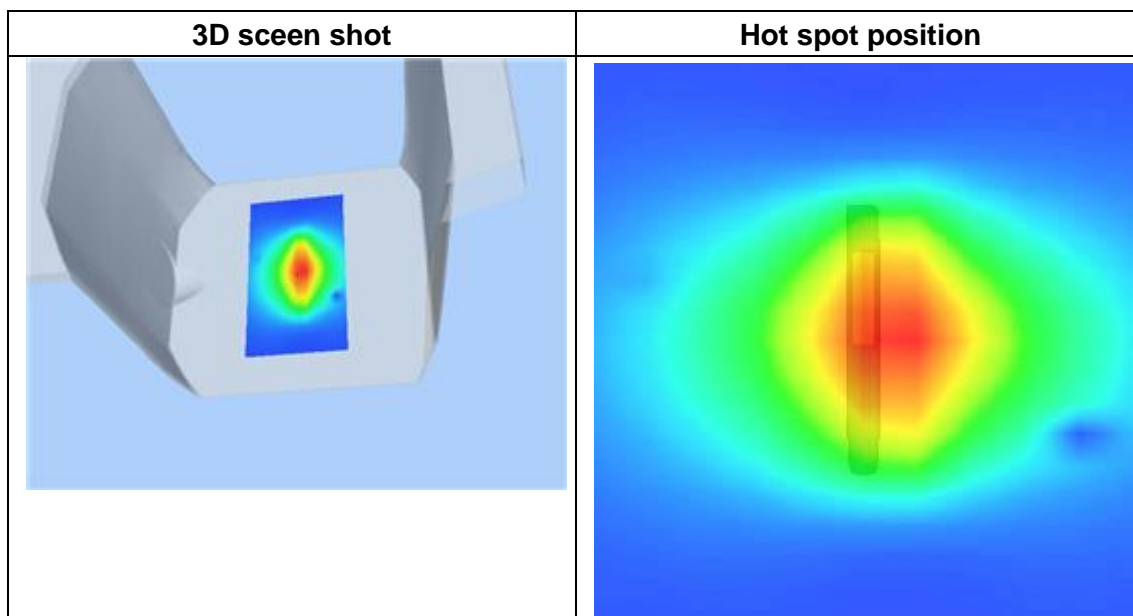
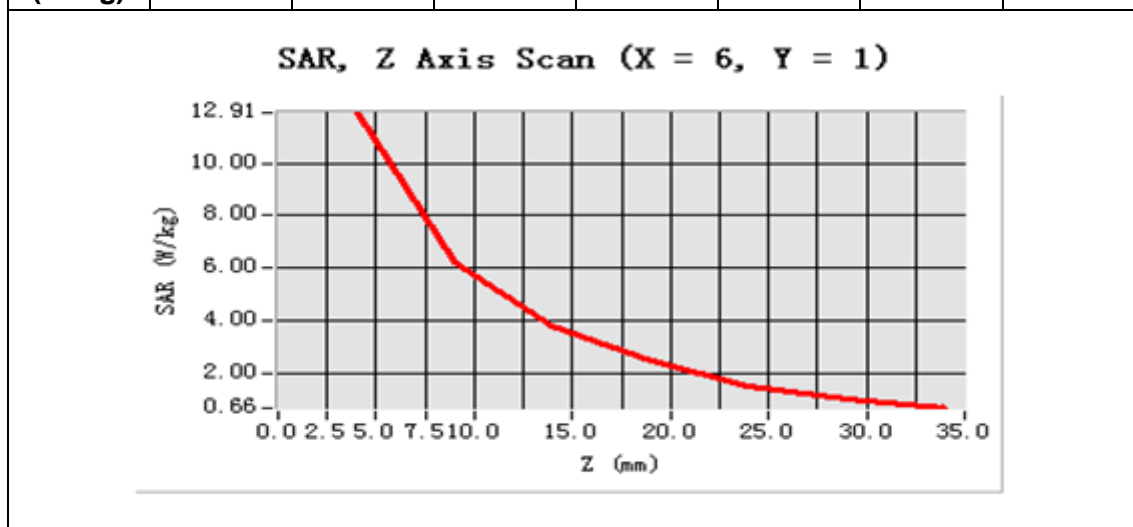


Maximum location: X=6.00, Y=1.00

SAR 10g (W/Kg)	2.377250
SAR 1g (W/Kg)	5.081074

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	12.9615	6.2096	3.8187	2.4504	1.5036	1.0219



**System Performance Check Data(2600MHz Head)**

Type: Phone measurement (Complete)

Area scan resolution: dx=12mm,dy=12mm

Zoom scan resolution: dx=5mm, dy=5mm, dz=5mm

Date of measurement: 2018.06.21

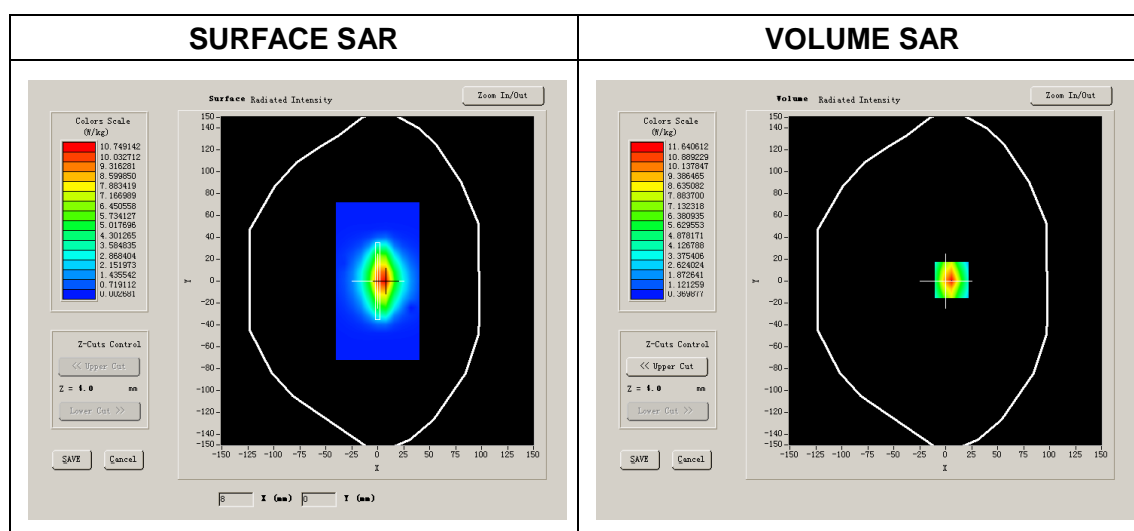
Measurement duration: 13 minutes 31 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Flat
Device Position	
Band	2600MHz
Channels	
Signal	CW

B. SAR Measurement Results**Band SAR**

Frequency (MHz)	2600.000000
Relative permittivity (real part)	39.024564
Conductivity (S/m)	1.975236
Power Drift (%)	1.080000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.8°C
ConvF:	4.74
Crest factor:	1:1

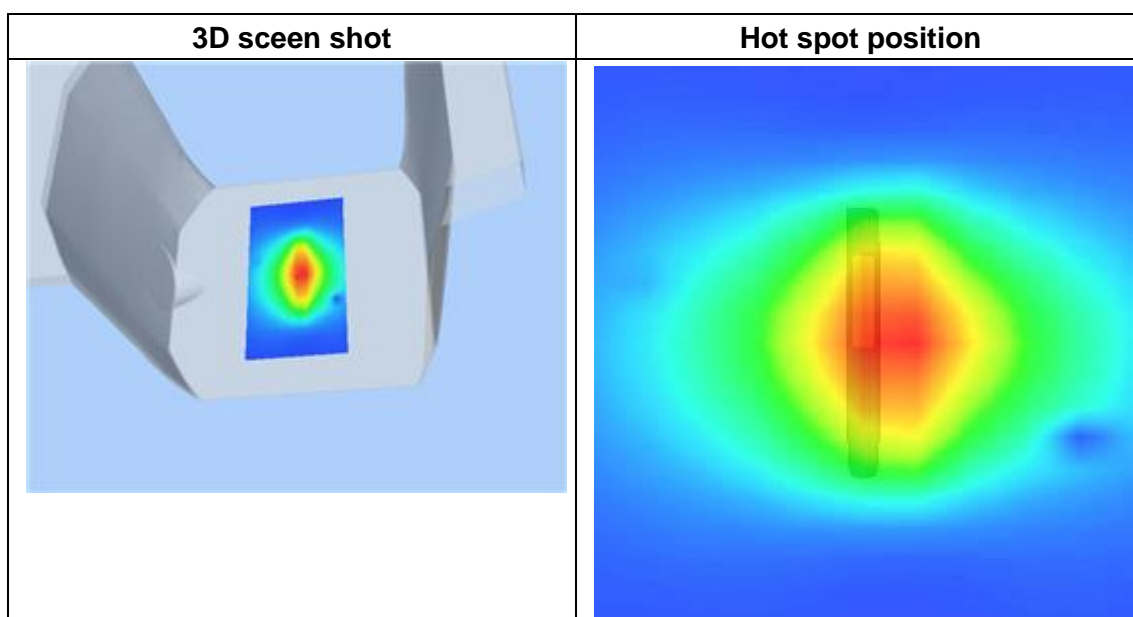
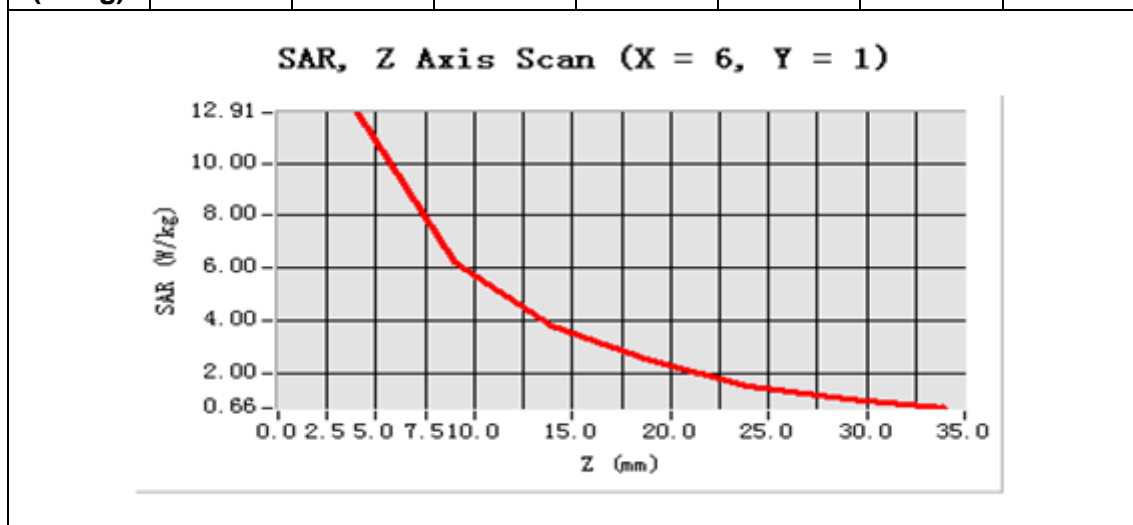


Maximum location: X=6.00, Y=1.00

SAR 10g (W/Kg)	2.498154
SAR 1g (W/Kg)	5.681472

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	12.9745	6.2193	3.8245	2.4624	1.5033	1.0220



**System Performance Check Data(2600MHz Body)**

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2018.06.21

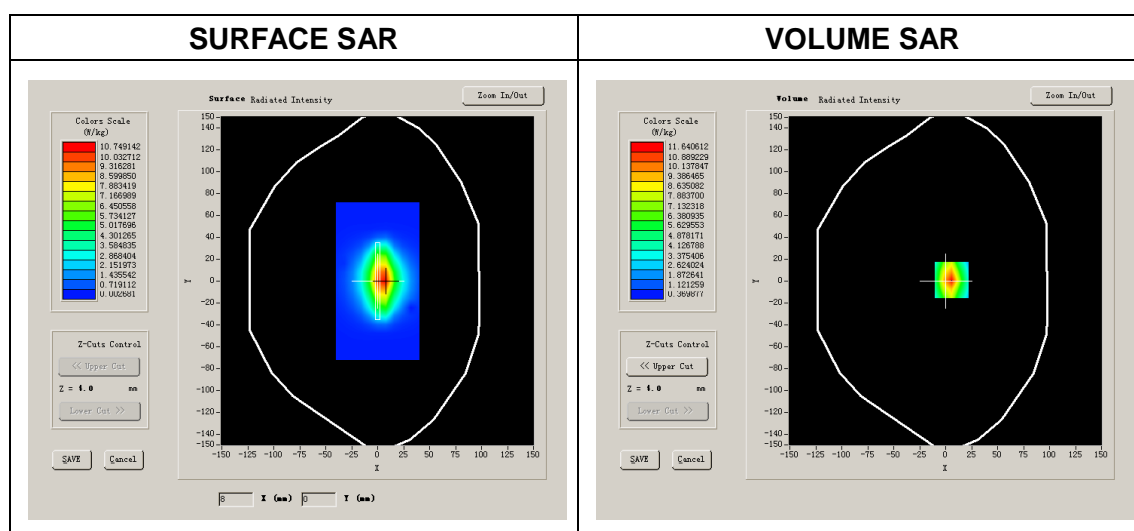
Measurement duration: 13 minutes 31 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Flat
Device Position	
Band	2600MHz
Channels	
Signal	CW

B. SAR Measurement Results**Band SAR**

Frequency (MHz)	2600.000000
Relative permittivity (real part)	52.362564
Conductivity (S/m)	2.105256
Power Drift (%)	1.380000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.8°C
ConvF:	4.93
Crest factor:	1:1

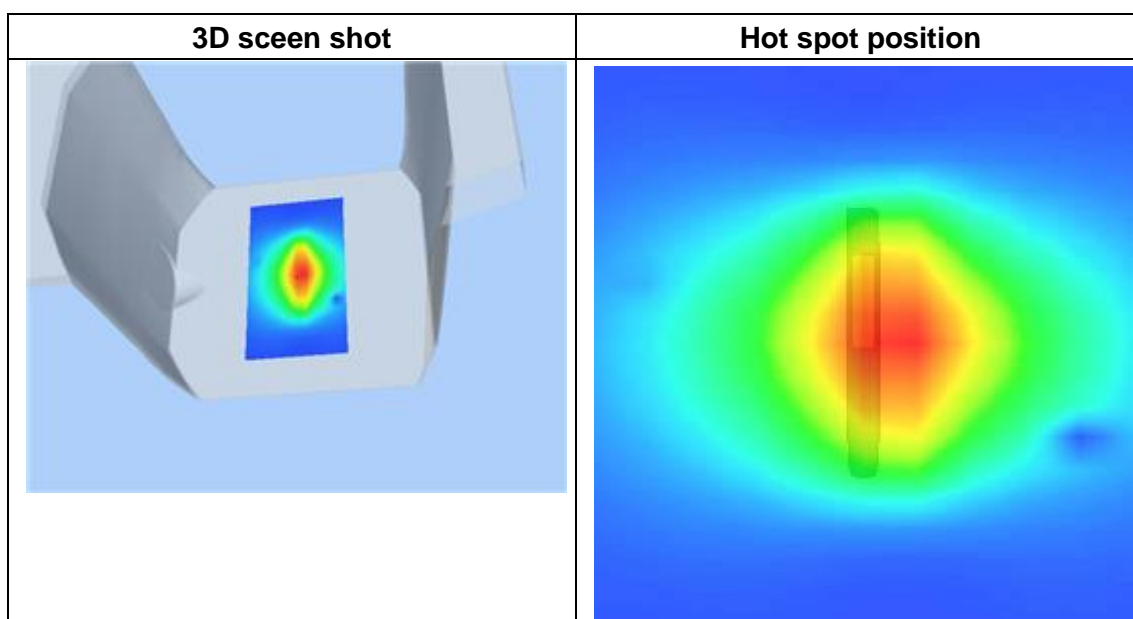
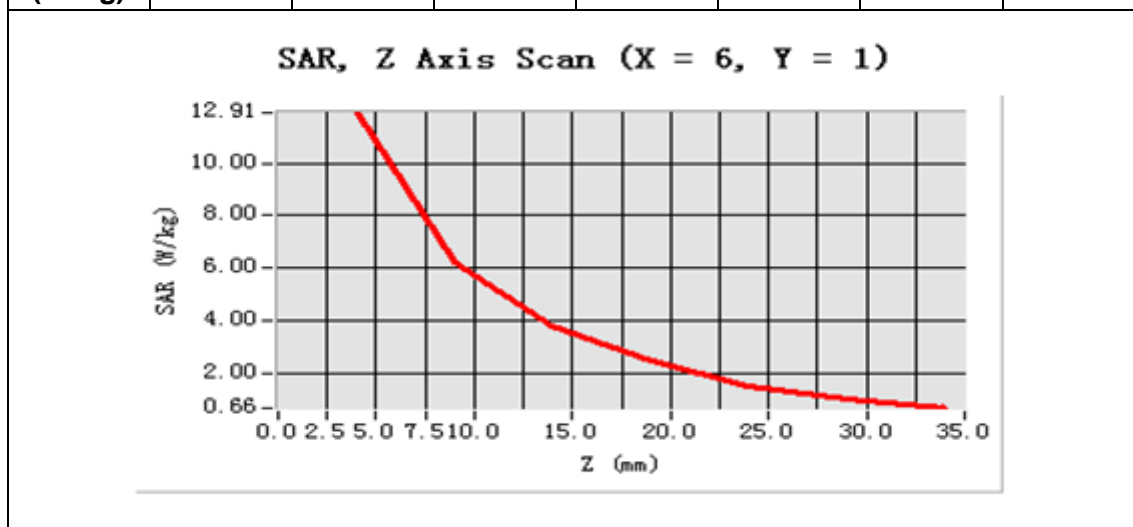


Maximum location: X=6.00, Y=1.00

SAR 10g (W/Kg)	2.369854
SAR 1g (W/Kg)	5.386472

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	12.9745	6.2193	3.8245	2.4624	1.5033	1.0220



**System Performance Check Data(5200MHz Head)**

Type: Phone measurement (Complete)

Area scan resolution: dx=10mm,dy=10mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2018.06.22

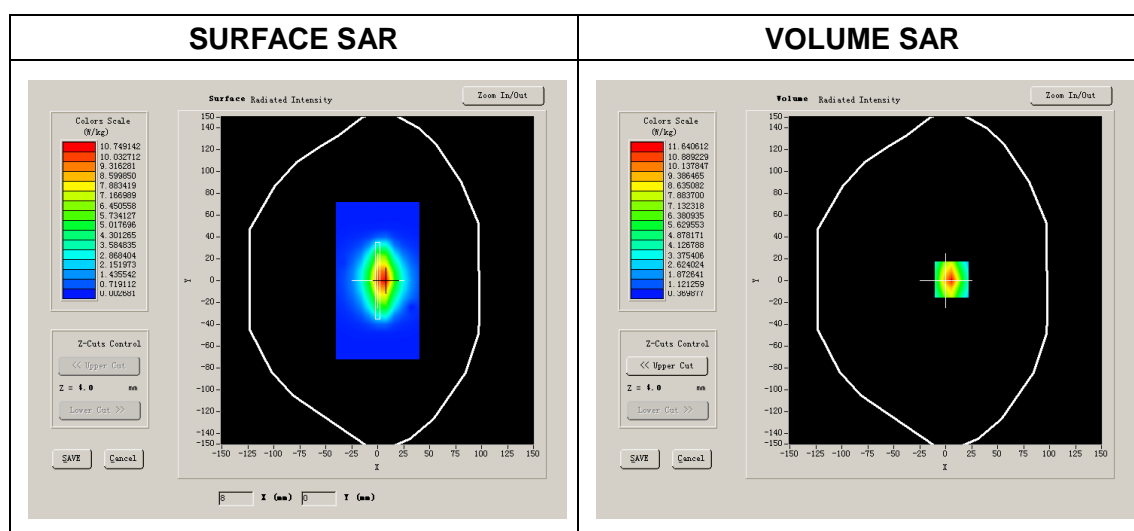
Measurement duration: 23 minutes 27 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	
Band	5200MHz
Channels	
Signal	CW

B. SAR Measurement Results**Band SAR**

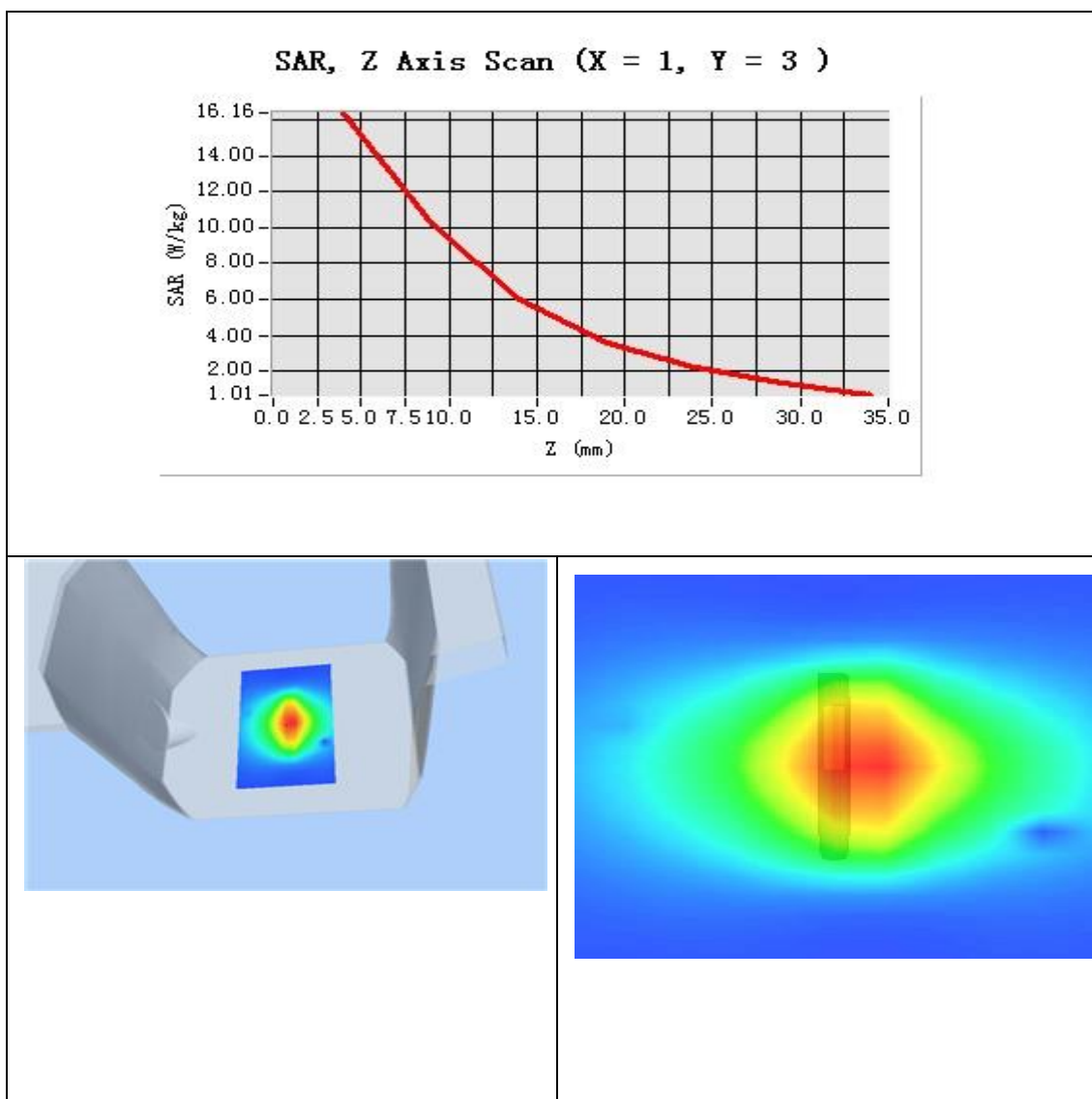
Frequency (MHz)	5200.000000
Relative permittivity (real part)	36.123014
Conductivity (S/m)	4.665260
Power Drift (%)	2.310000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	21.61
Crest factor:	1:1



Maximum location: X=1.00, Y=3.00

SAR 10g (W/Kg)	5.651263
SAR 1g (W/Kg)	16.398864

Z Axis Scan



**System Performance Check Data(5600MHz Head)**

Type: Phone measurement (Complete)

Area scan resolution: dx=10mm,dy=10mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2018.06.22

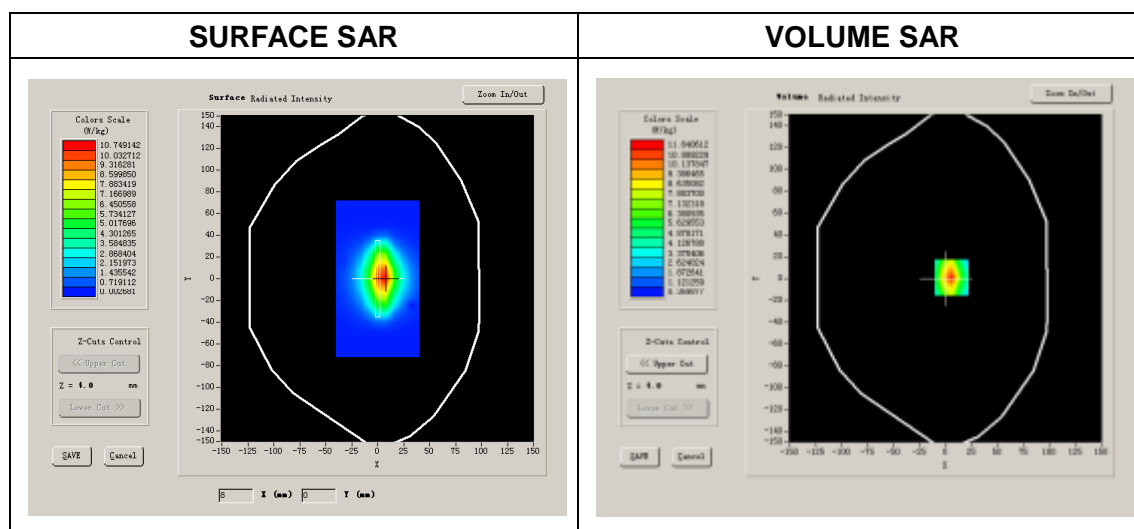
Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	
Band	5600MHz
Channels	
Signal	CW

B. SAR Measurement Results**Band SAR**

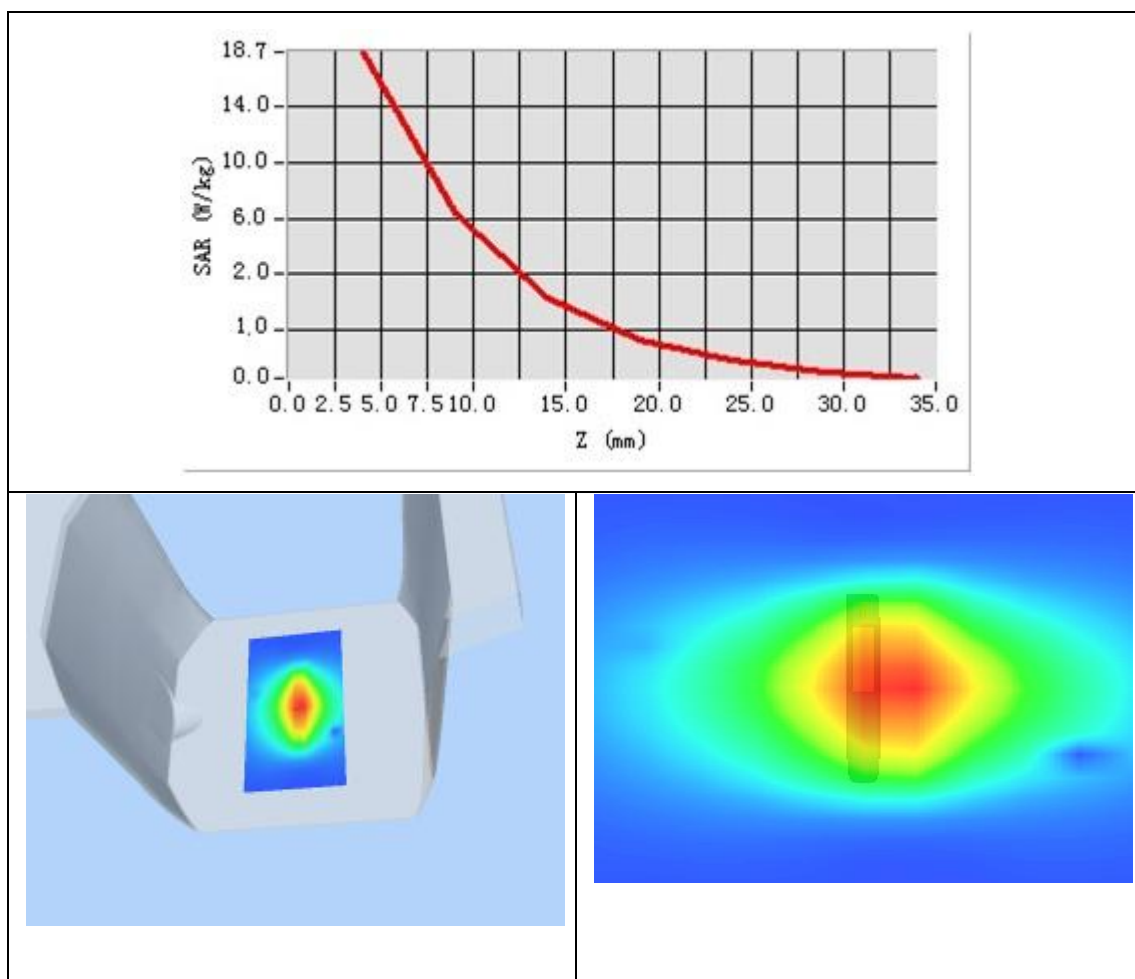
Frequency (MHz)	5600.000000
Relative permittivity (real part)	35.562139
Conductivity (S/m)	5.100255
Power Drift (%)	1.080000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	22.92
Crest factor:	1:1



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

SAR 10g (W/Kg)	6.0553669
SAR 1g (W/Kg)	17.144263

Z Axis Scan





System Performance Check Data(5800MHz Head)

Type: Phone measurement (Complete)

Area scan resolution: dx=10mm,dy=10mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2018.06.22

Measurement duration: 13 minutes 27 seconds

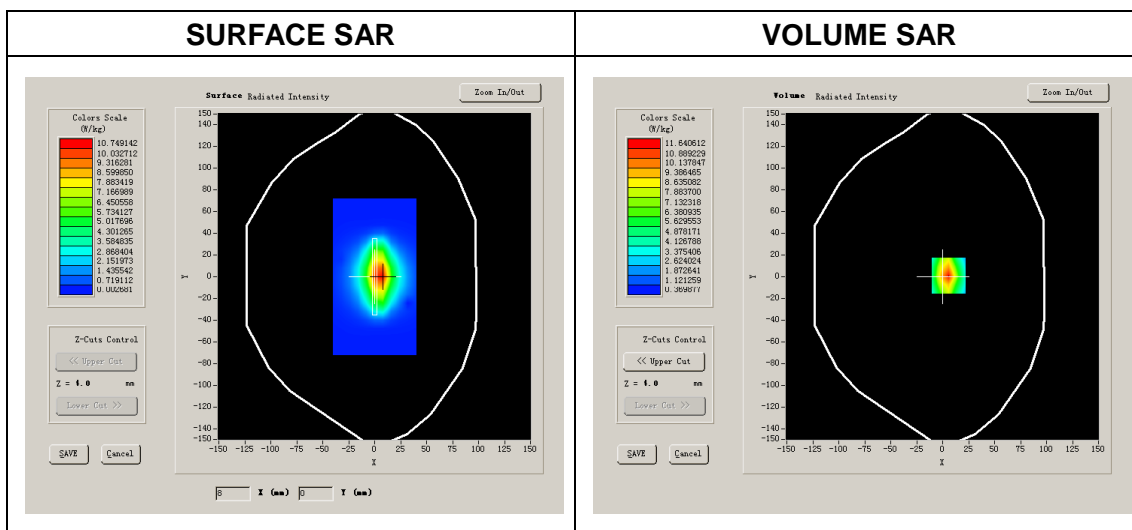
A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	
Band	5800MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

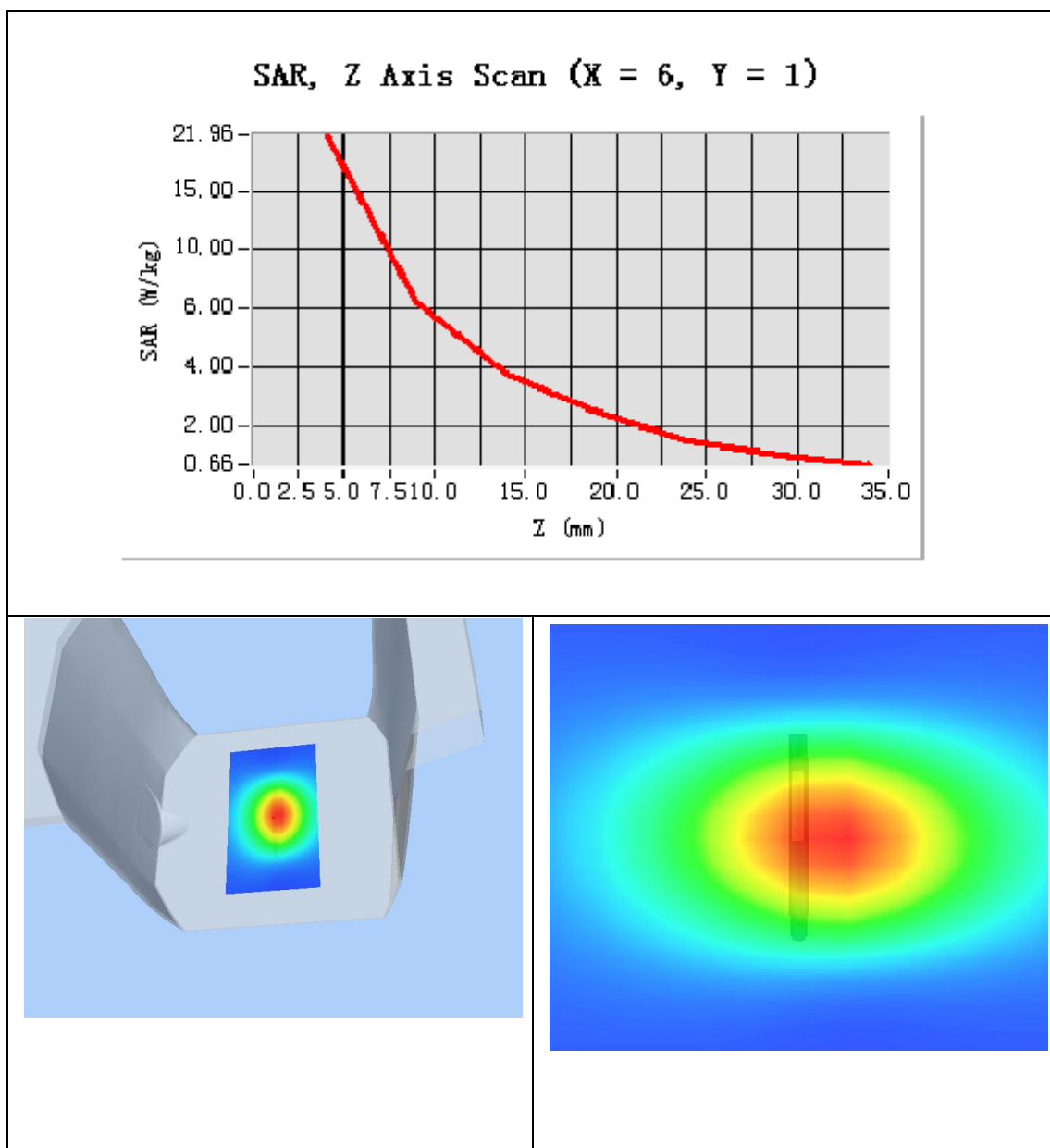
Frequency (MHz)	5800.000000
Relative permittivity (real part)	35.334675
Conductivity (S/m)	5.310226
Power Drift (%)	1.260000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	22.42
Crest factor:	1:1



Maximum location: X=-6.00, Y=-1.00

SAR 10g (W/Kg)	5.994412
SAR 1g (W/Kg)	17.711256

Z Axis Scan



**System Performance Check Data(5200MHz Body)**

Type: Phone measurement (Complete)

Area scan resolution: dx=10mm,dy=10mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2018.06.20

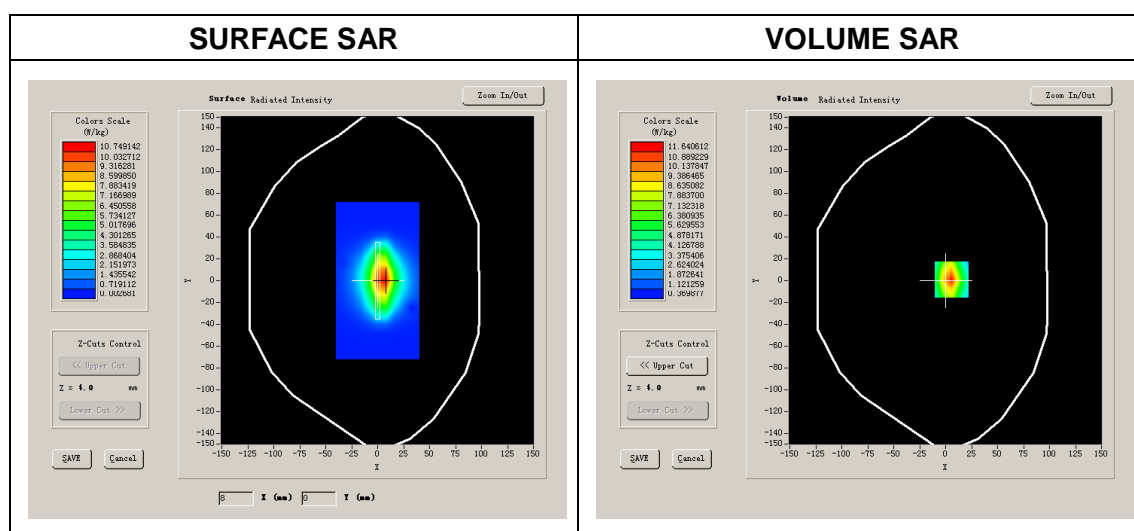
Measurement duration: 23 minutes 27 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	
Band	5200MHz
Channels	
Signal	CW

B. SAR Measurement Results**Band SAR**

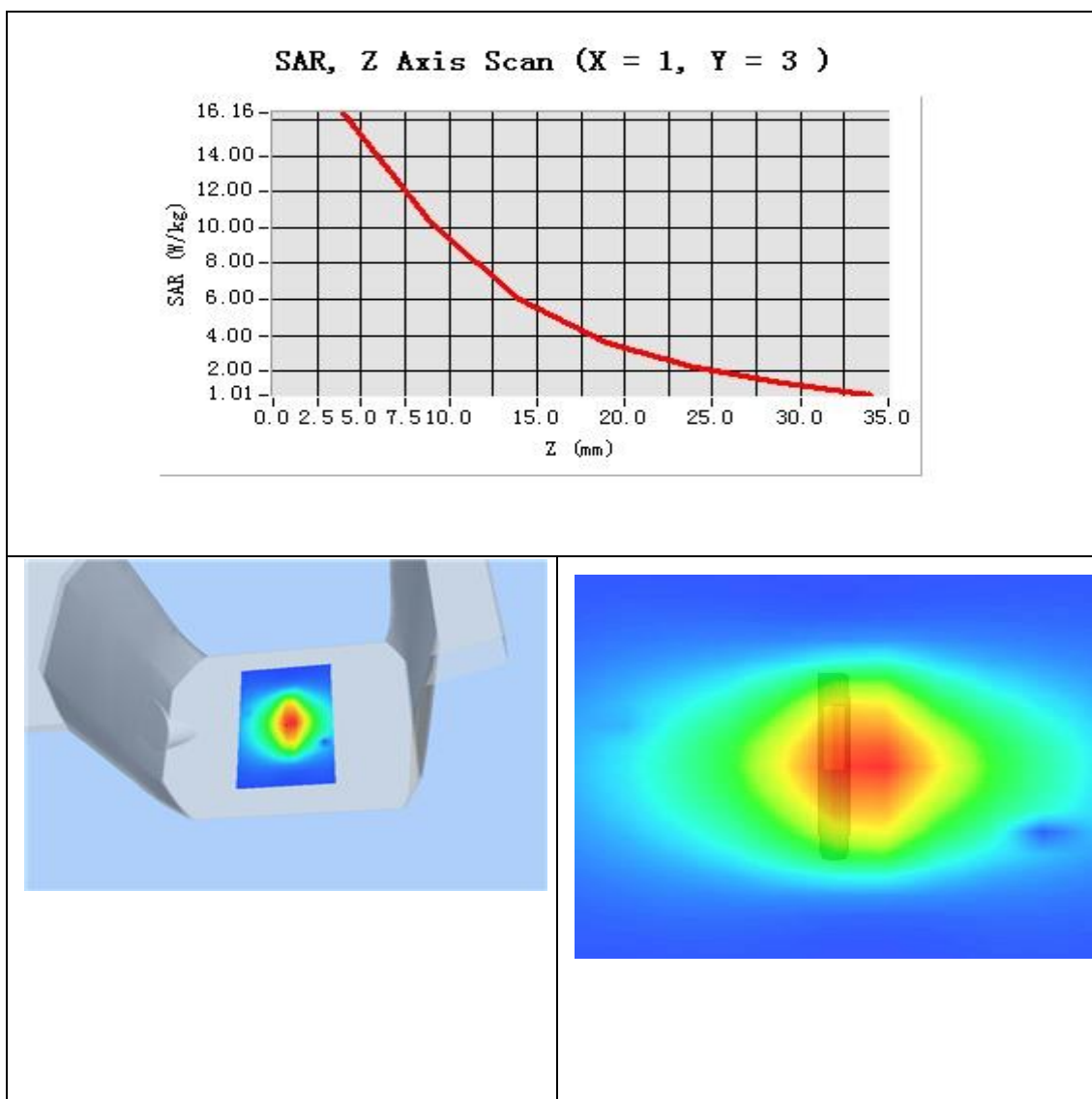
Frequency (MHz)	5200.000000
Relative permittivity (real part)	48.273014
Conductivity (S/m)	5.543260
Power Drift (%)	2.310000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	22.11
Crest factor:	1:1



Maximum location: X=1.00, Y=3.00

SAR 10g (W/Kg)	5.624355
SAR 1g (W/Kg)	16.28442

Z Axis Scan



**System Performance Check Data(5600MHz Body)**

Type: Phone measurement (Complete)

Area scan resolution: dx=10mm,dy=10mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2018.06.20

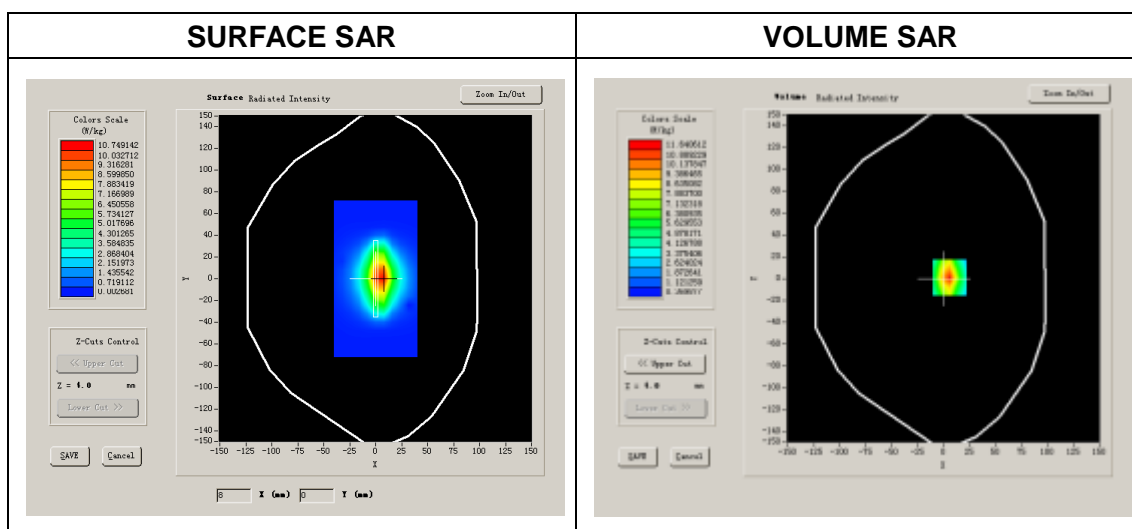
Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	
Band	5600MHz
Channels	
Signal	CW

B. SAR Measurement Results**Band SAR**

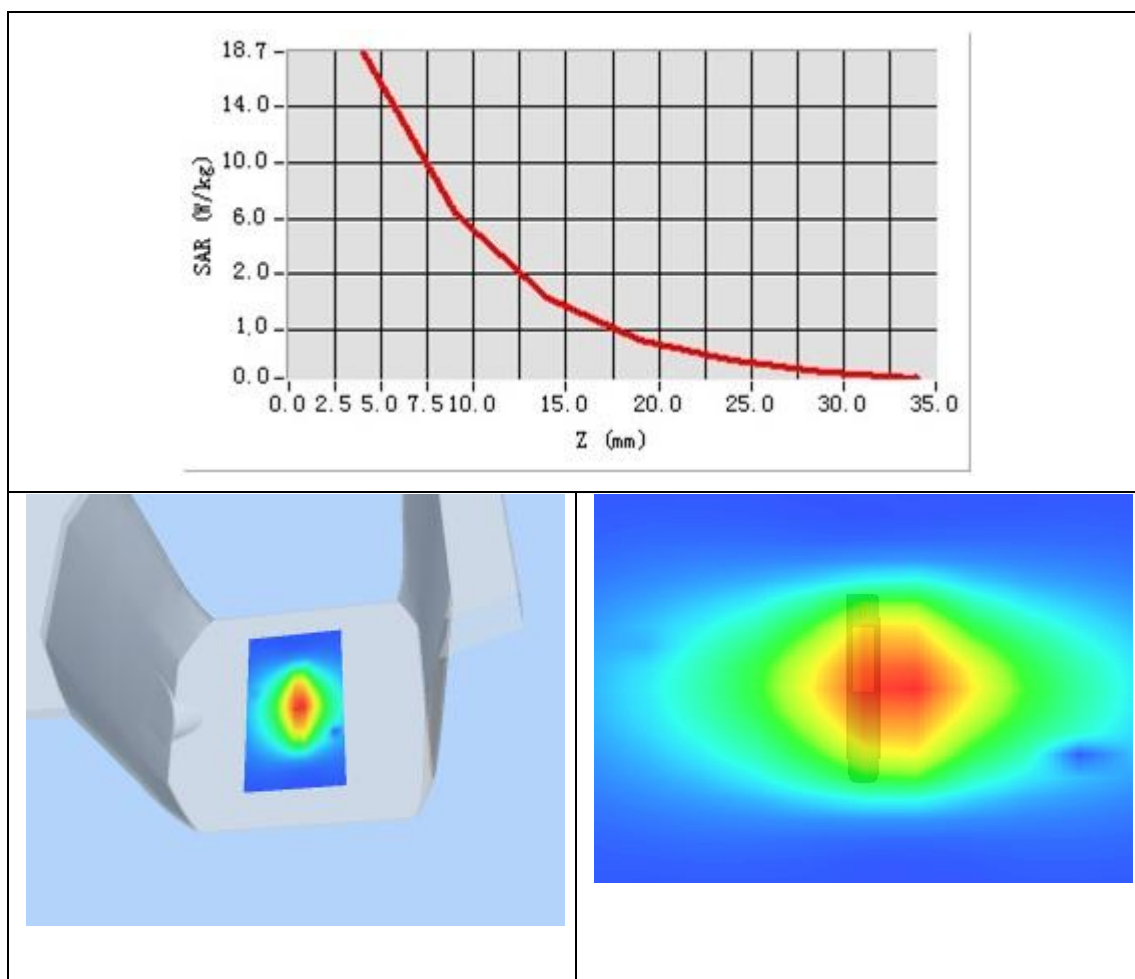
Frequency (MHz)	5600.000000
Relative permittivity (real part)	48.394381
Conductivity (S/m)	5.7432600
Power Drift (%)	1.080000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	23.69
Crest factor:	1:1



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

SAR 10g (W/Kg)	5.906961
SAR 1g (W/Kg)	17.19624

Z Axis Scan



**System Performance Check Data(5800MHz Body)**

Type: Phone measurement (Complete)

Area scan resolution: dx=10mm,dy=10mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2018.06.20

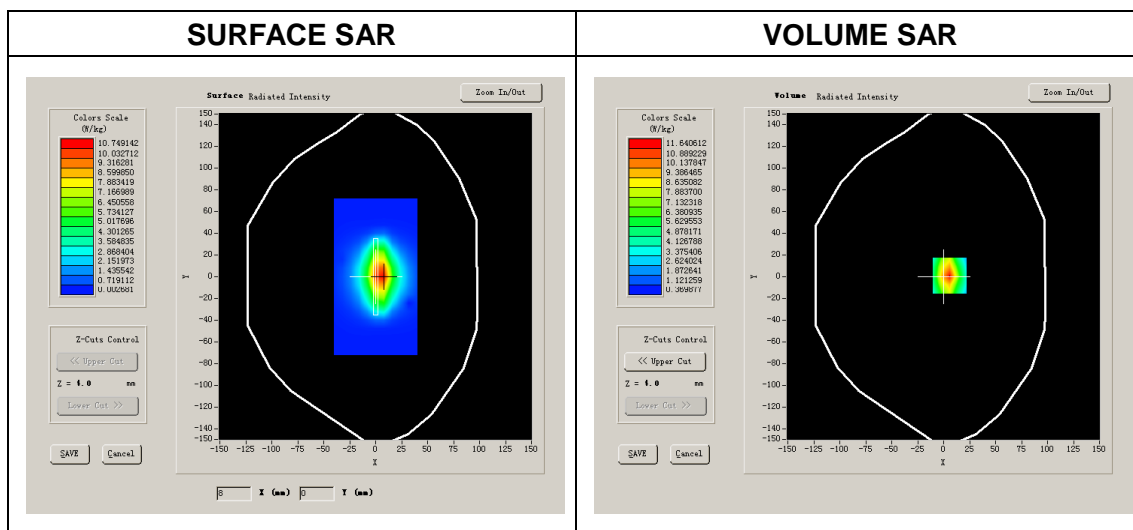
Measurement duration: 23 minutes 27 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	
Band	5800MHz
Channels	
Signal	CW

B. SAR Measurement Results**Band SAR**

Frequency (MHz)	5800.000000
Relative permittivity (real part)	48.093428
Conductivity (S/m)	5.930716
Power Drift (%)	1.260000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	23.02
Crest factor:	1:1



Maximum location: X=-6.00, Y=-1.00

SAR 10g (W/Kg)	5.982634
SAR 1g (W/Kg)	17.695290

Z Axis Scan

