



REPORT No. : SZ17120080S01

Annex A General Information

1. Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
ResponsibleTest Lab Manager:	Mr. Su Feng
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

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**3. List of Test Equipments**

No.	Instrument	Type	Cal. Date	Cal. Due
1	PC	Dell (Pentium IV 2.4GHz, SN:X10-23533)	(n.a)	(n.a)
2	Network Emulator	Aglient (8960, SN:10752)	2017-5-24	1year
3	Network Emulator	Rohde&Schwarz (CMW500,SN:124534)	2017-5-25	1year
4	Network Analyzer	Agilent(E5071B ,SN:MY42404762)	2017-5-25	1year
5	Voltmeter	Keithley (2000, SN:1000572)	2017-7-8	1year
6	Synthesizer	Rohde&Schwarz (SML_03, SN:101868)	2017-8-24	1year
7	Signal Generator	Rohde&Schwarz (SMP_02)	2017-7-8	1year
8	Power Amplifier	PRANA (Ap32 SV125AZ)	2017-7-8	1year
9	Power Meter	Agilent (E4416A, SN:MY45102093)	2017-7-8	1year
10	Power Sensor	Agilent (N8482A, SN:MY41091706)	2017-7-8	1year
11	Power Meter	Rohde&Schwarz (NRVD, SN:101066)	2017-7-8	1year
12	Power Sensor	MA2411B	2017-7-8	1year
13	Directional coupler	Giga-tronics(SN:1829112)	2017-7-24	1year
14	Probe	Satimo (SN:SN 37/08 EP80)	2017-7-5	1year
15	Probe	Satimo (SN:SN 37/13 EPG193)	2017-7-5	1year
16	Dielectric Probe Kit	Agilent (85033E)	2017-7-5	1year
17	Phantom	Satimo (SN:SN_36_08_SAM62)	N/A	N/A
18	Liquid	Satimo(Last Calibration: 2018-01-12 to 2018-02-08)	N/A	N/A
19	Dipole 750MHz	Satimo (SN30/13 DIP0G750)	2017-7-5	1year
20	Dipole 835MHz	Satimo (SN 20/08 DIP0C99)	2017-7-5	1year
21	Dipole 1800MHz	Satimo (SN 36/08 DIPF101)	2017-7-5	1year
22	Dipole 2000MHz	Satimo (SN 20/08 DIP102)	2017-7-5	1year
23	Dipole 2450MHz	Satimo (SN 30/13 DIP2G450-263)	2017-7-5	1year
24	Dipole 2600MHz	Satimo (SN 30/13 DIP2G600-265)	2017-7-5	1year
25	Dipole 5-6GHz	Satimo (SN 41/12 WGA21)	2017-7-5	1year
26	Thermo meter	KTJ(mode-01)	2017-5-10	1year

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Annex B Test Setup Photos

Head

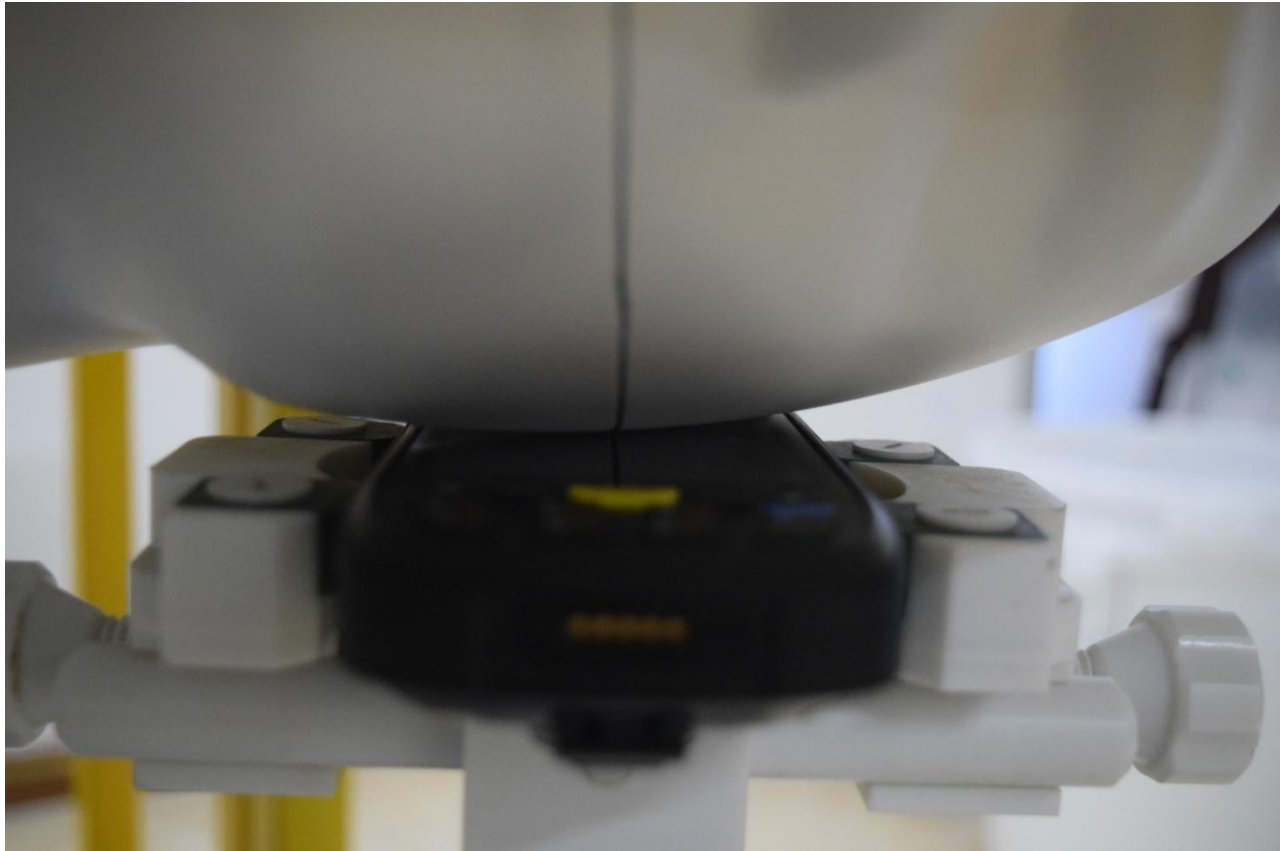


Right Cheek



Right Tilt

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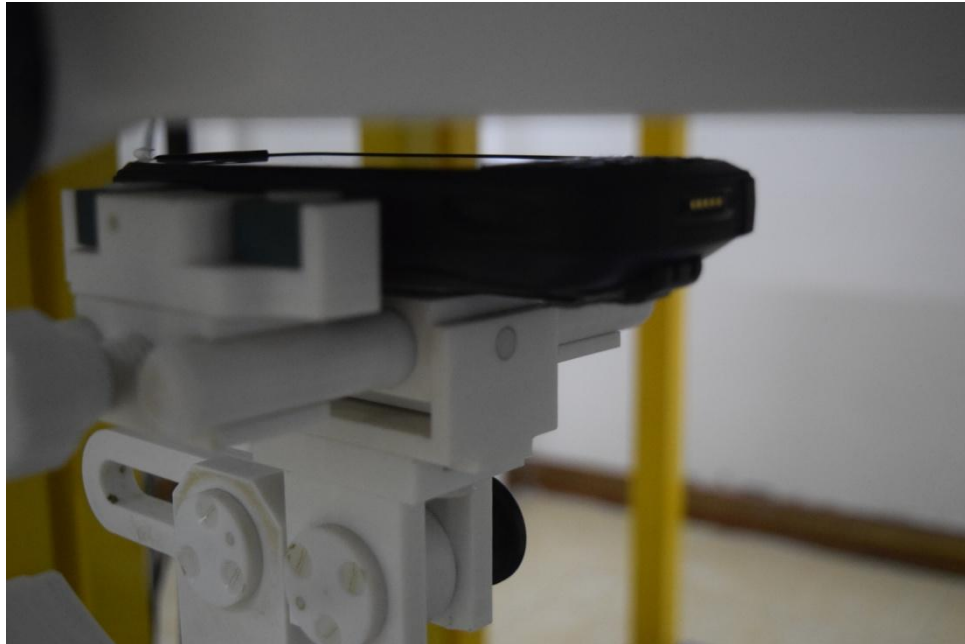


Left Cheek



Left Tilt

Body



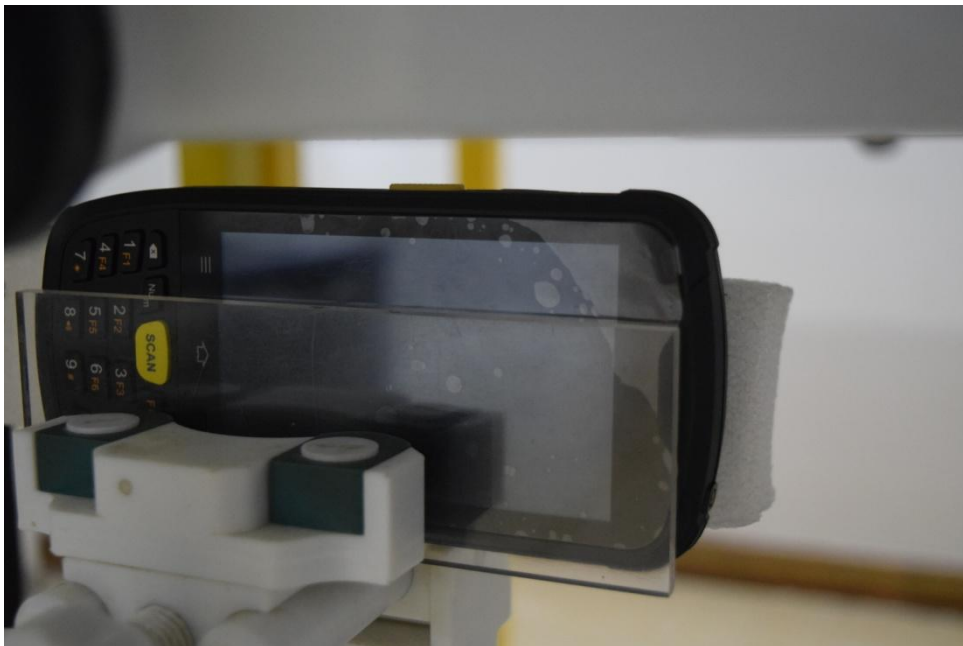
Front Side_10mm



Back Side_10mm



Right Side_10mm



Left Side_10mm



Top Side_10mm



Bottom Side_10mm

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: 2018.01.12

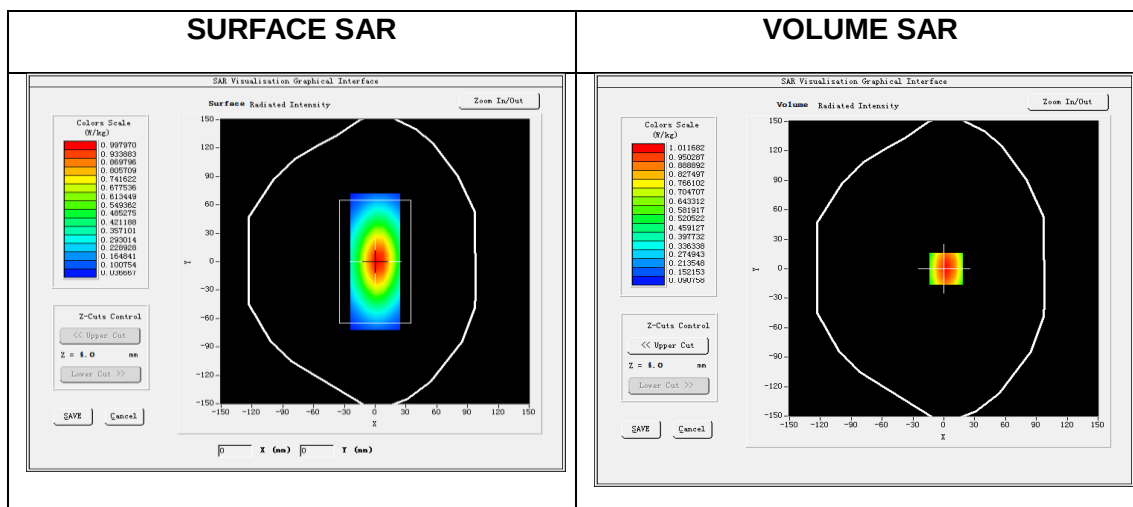
Measurement duration: 13 minutes 28 seconds

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

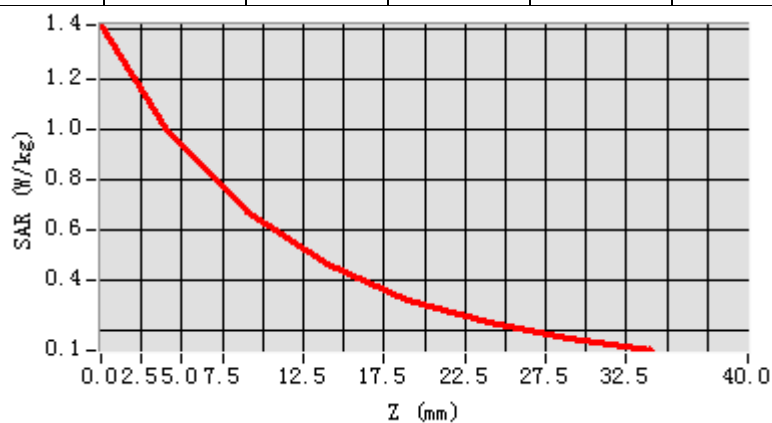


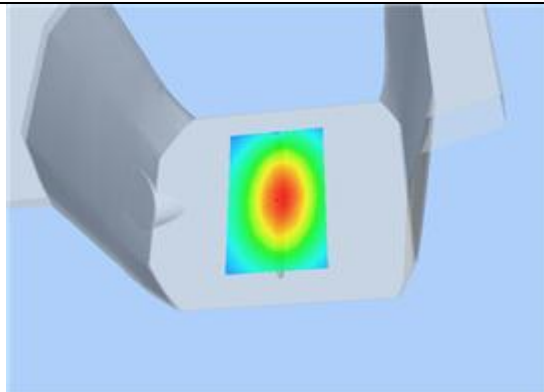
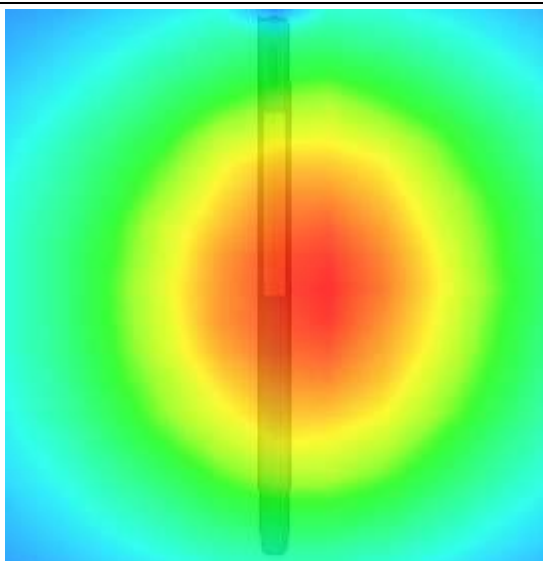
Maximum location: X=2.00, Y=0.00

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: 2018.01.12

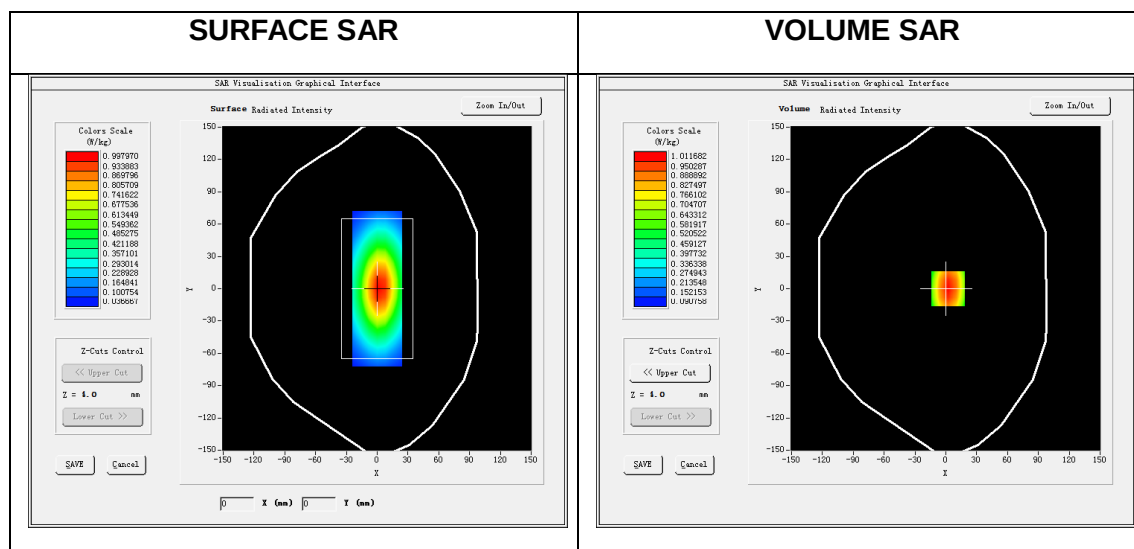
Measurement duration: 13 minutes 36 seconds

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

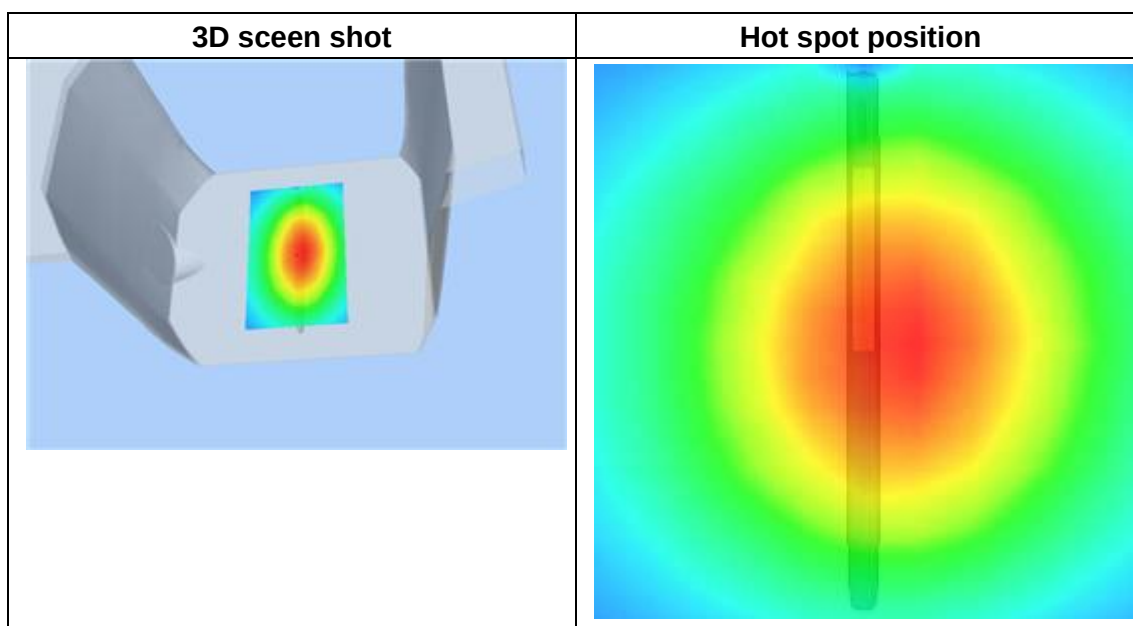
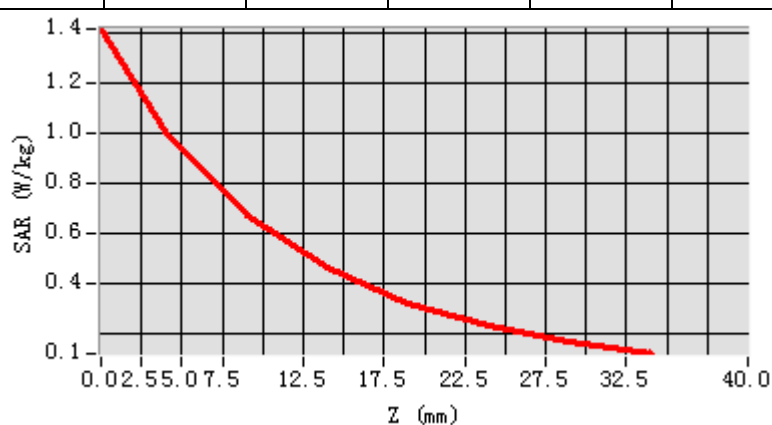


Maximum location: X=2.00, Y=0.00

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: 2018.01.19

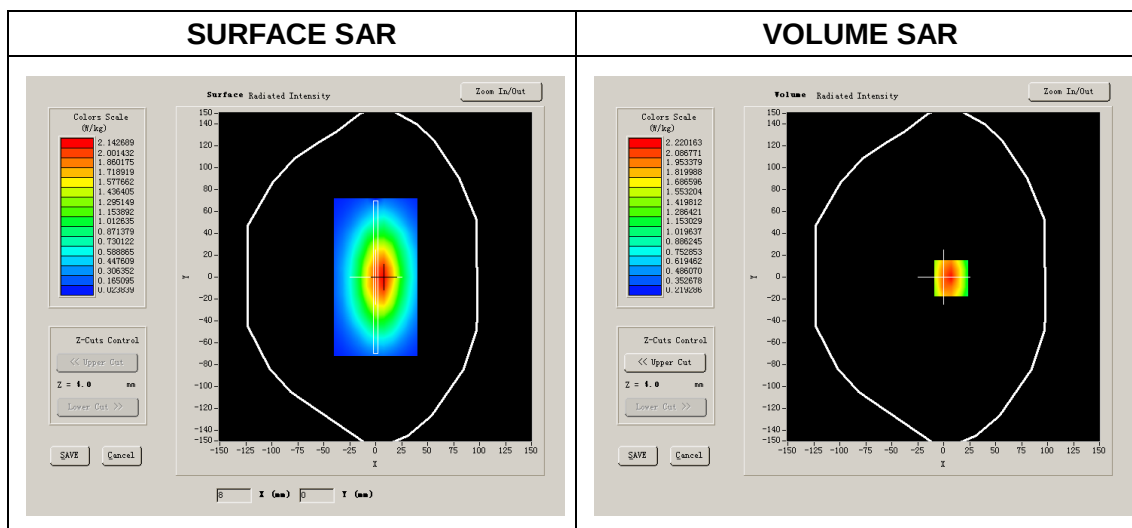
Measurement duration: 13 minutes 35 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

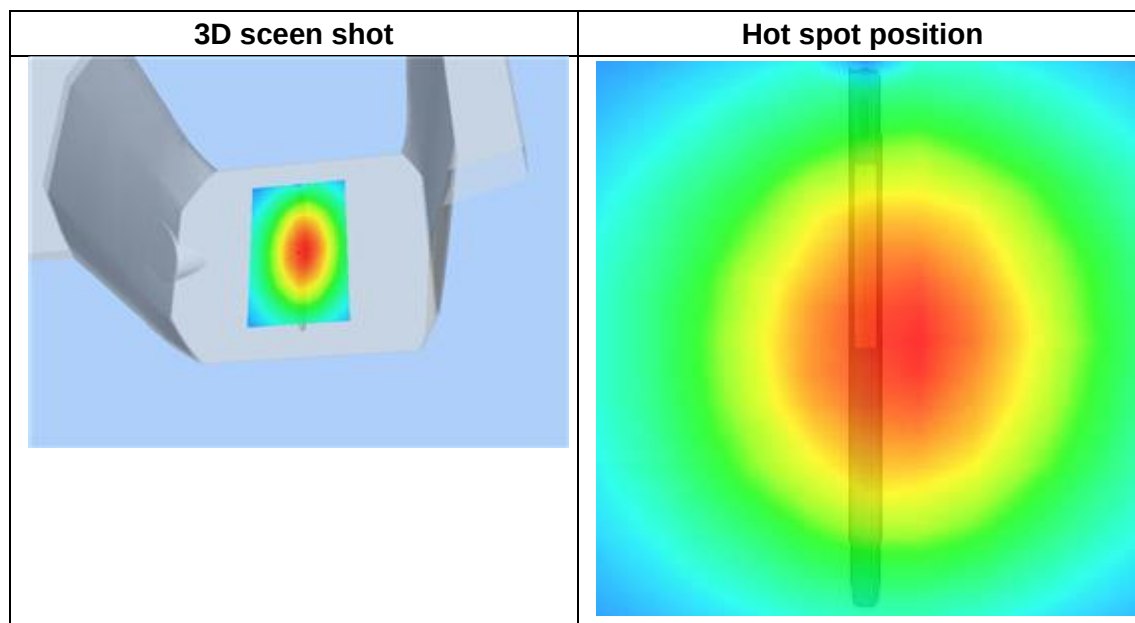
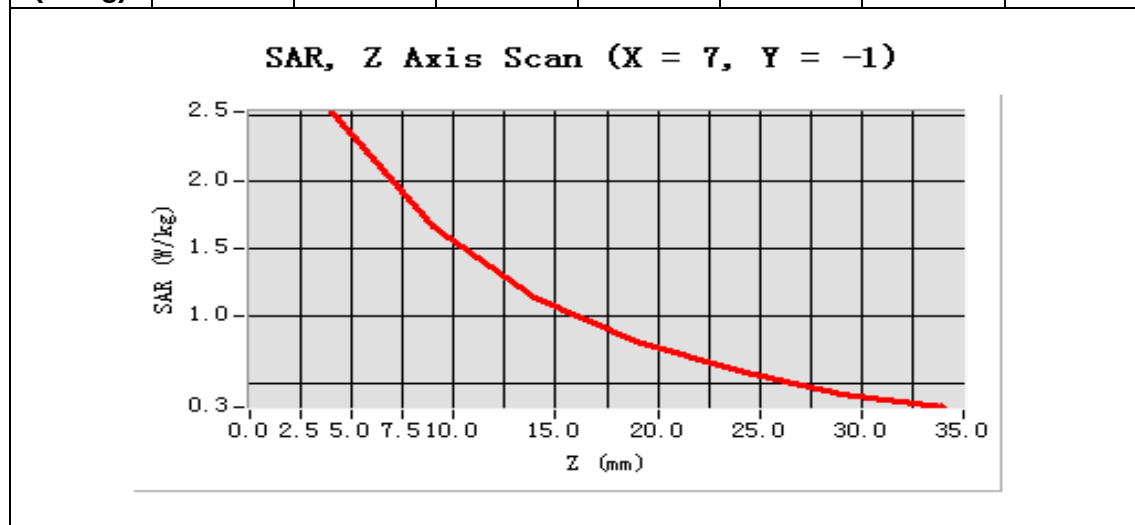
Frequency (MHz)	835.000000
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.891718
Power drift (%)	1.070000
Ambient Temperature:	22.6°C
Liquid Temperature:	21.2°C
ConvF:	6.13
Crest factor:	1:1

**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: 2018.02.01

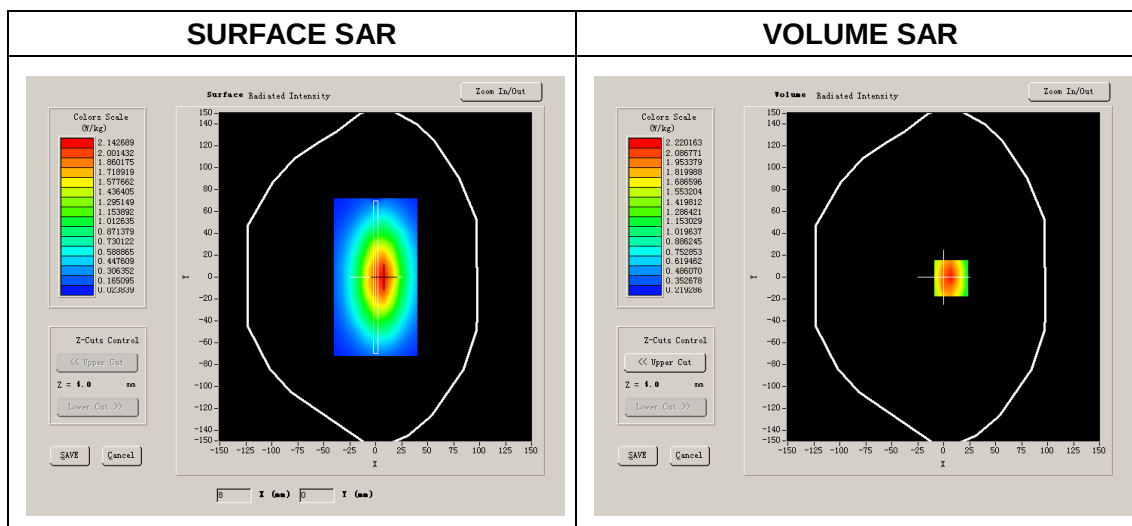
Measurement duration: 13 minutes 28 seconds

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)	0.921718
Power drift (%)	1.070000
Ambient Temperature:	22.6°C
Liquid Temperature:	21.2°C
ConvF:	6.37
Crest factor:	1:1

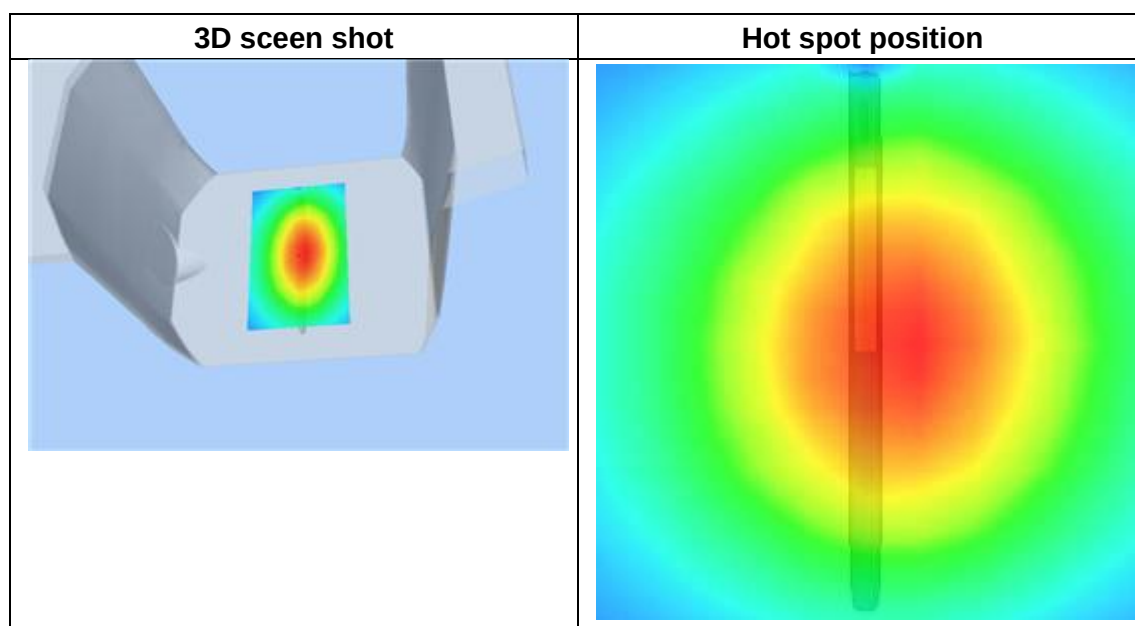
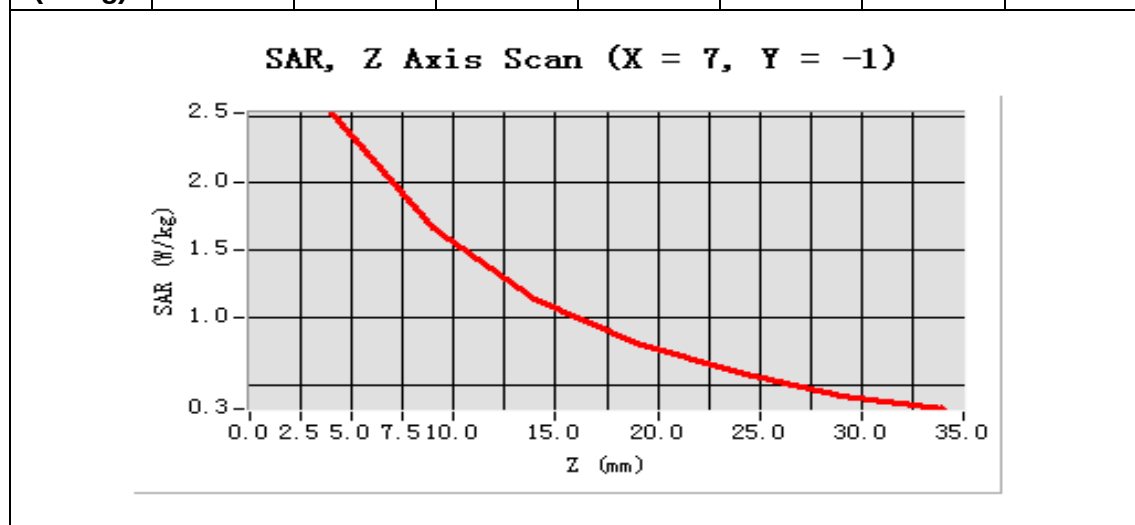


Maximum location: X=7.00, Y=-1.00

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: 2018.01.31

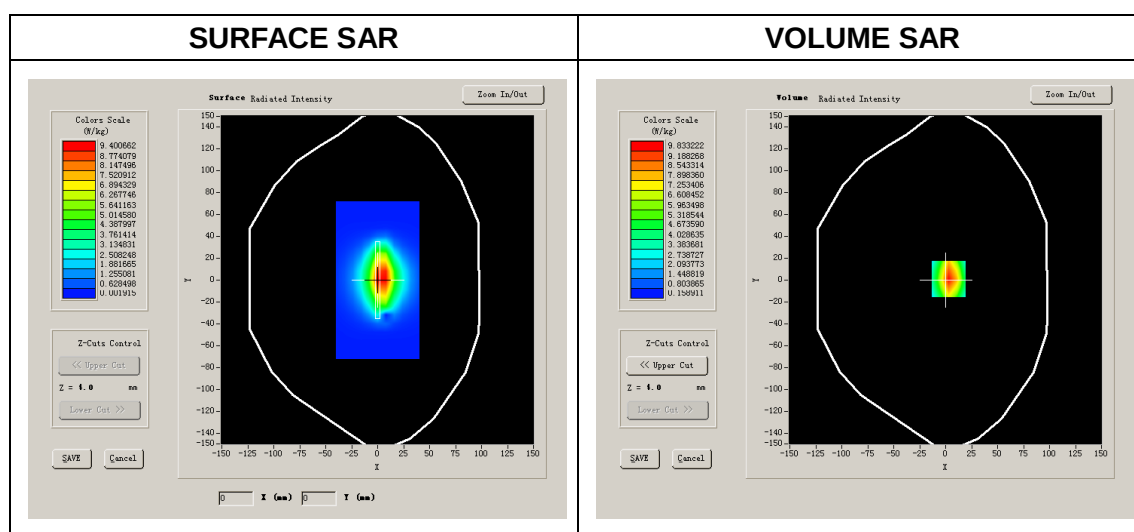
Measurement duration: 13 minutes 27 seconds

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

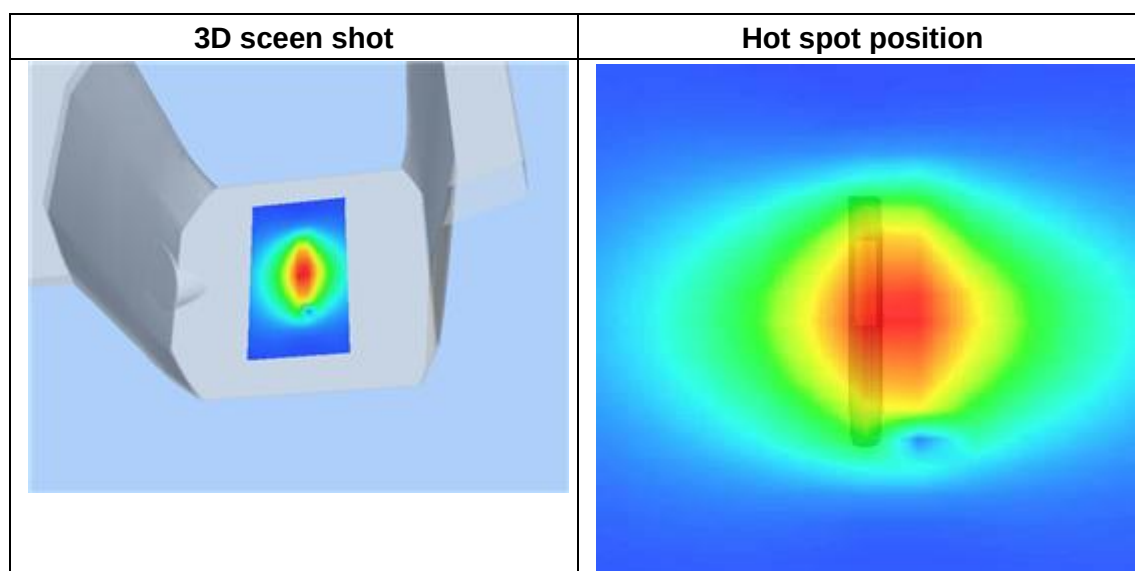
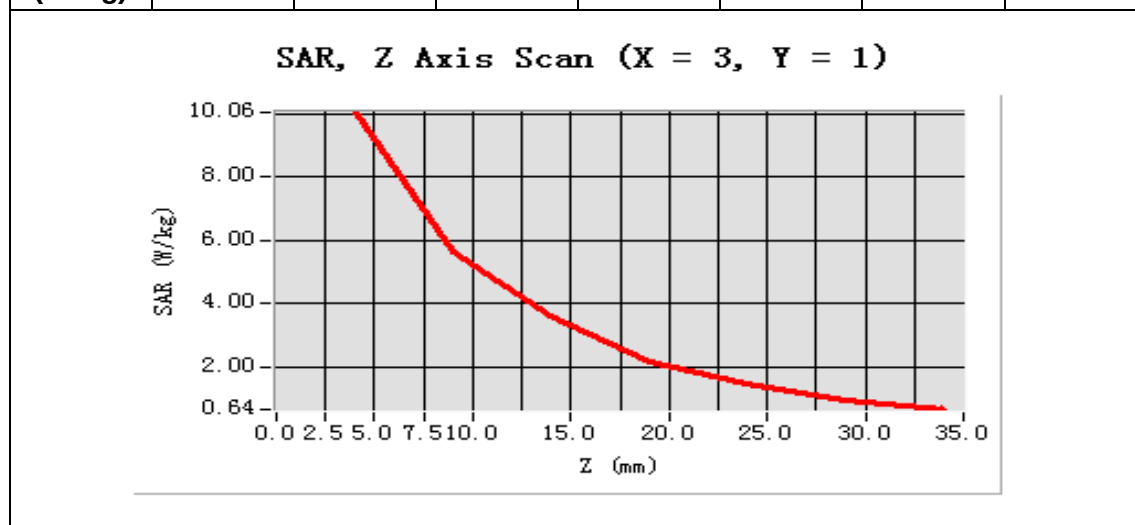


Maximum location: X=3.00, Y=1.00

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



**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: 2018.02.02

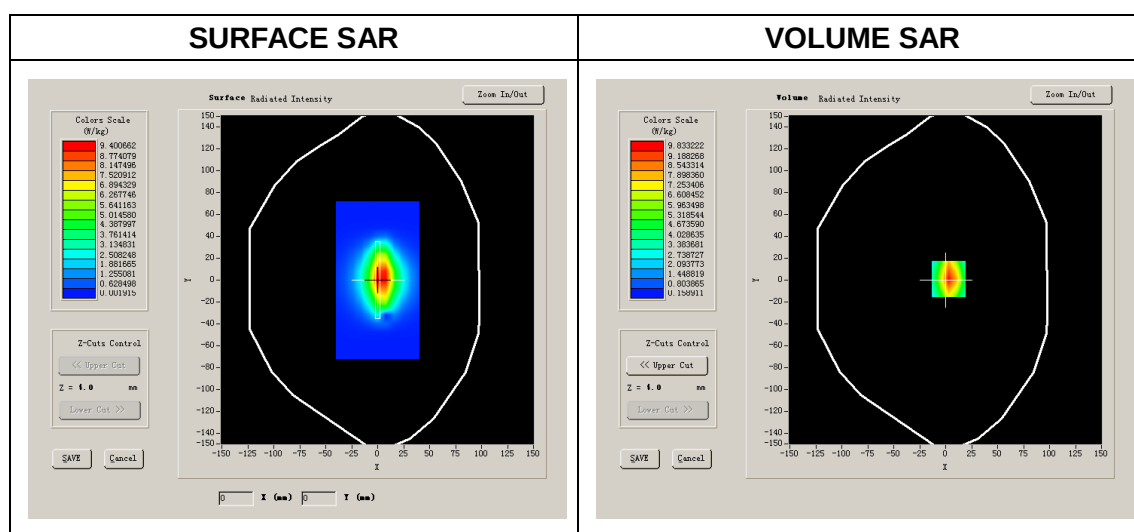
Measurement duration: 13 minutes 27 seconds

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

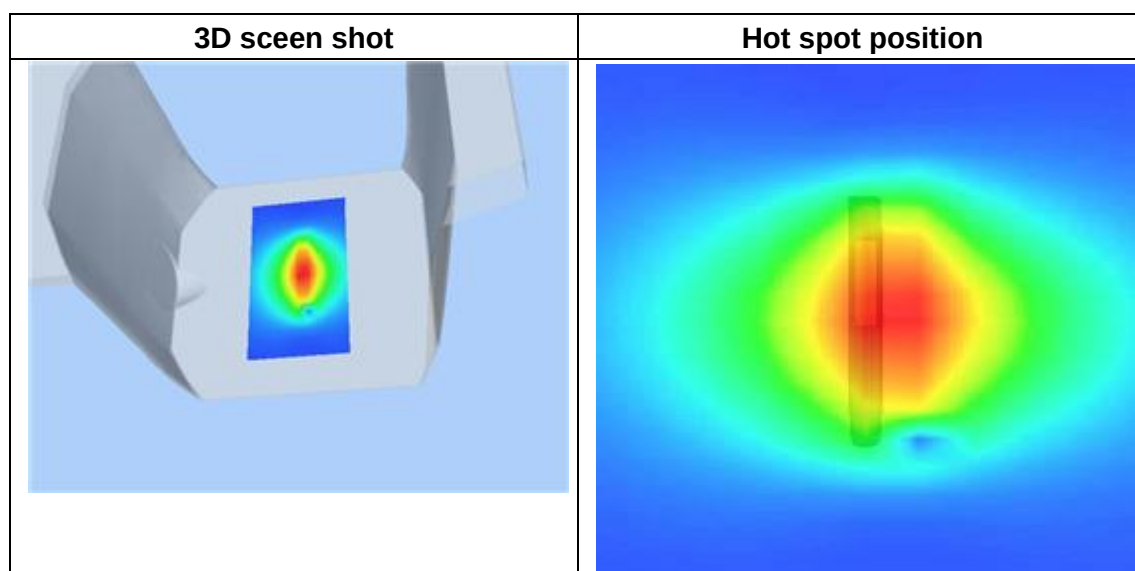
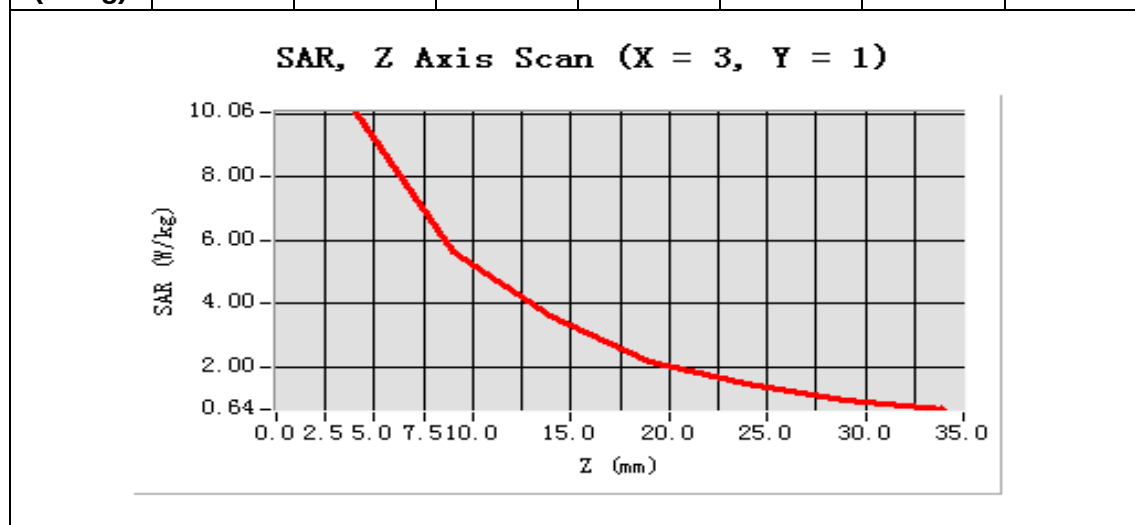


Maximum location: X=3.00, Y=1.00

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



**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: 2018.01.17

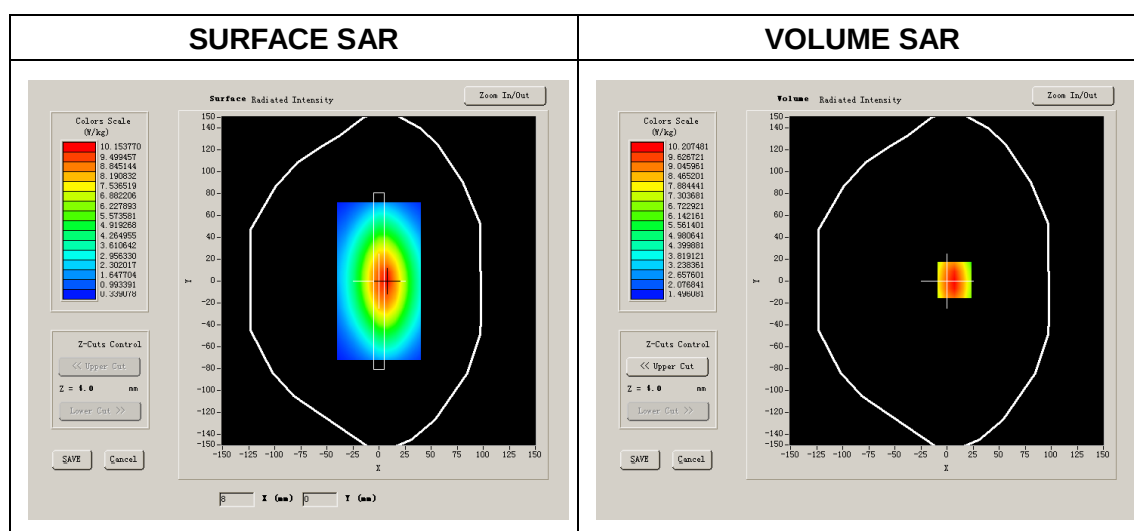
Measurement duration: 13 minutes 27 seconds

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

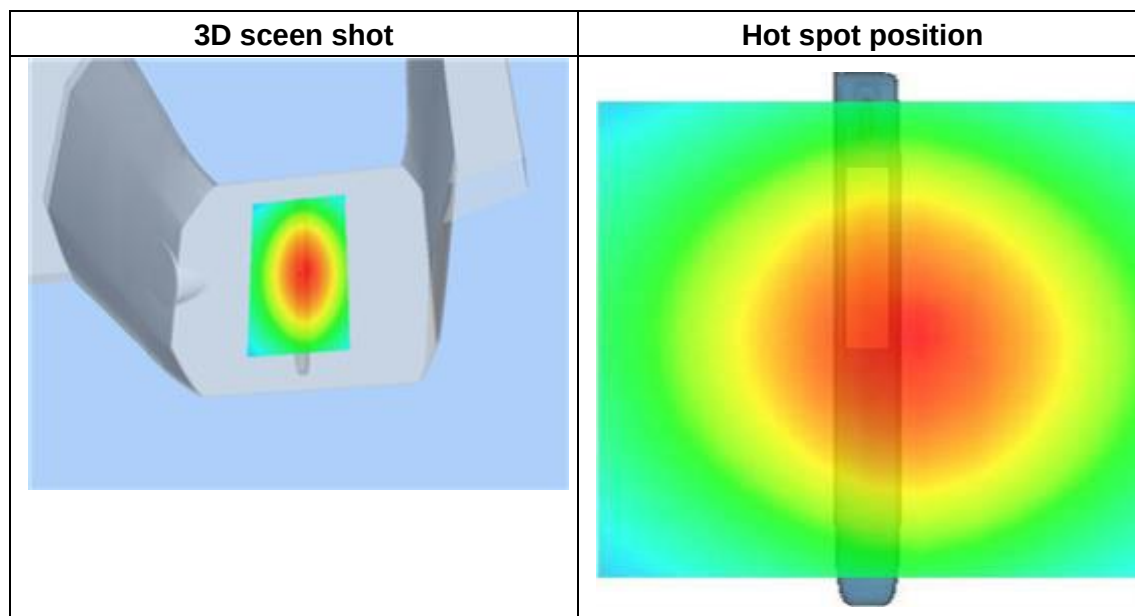
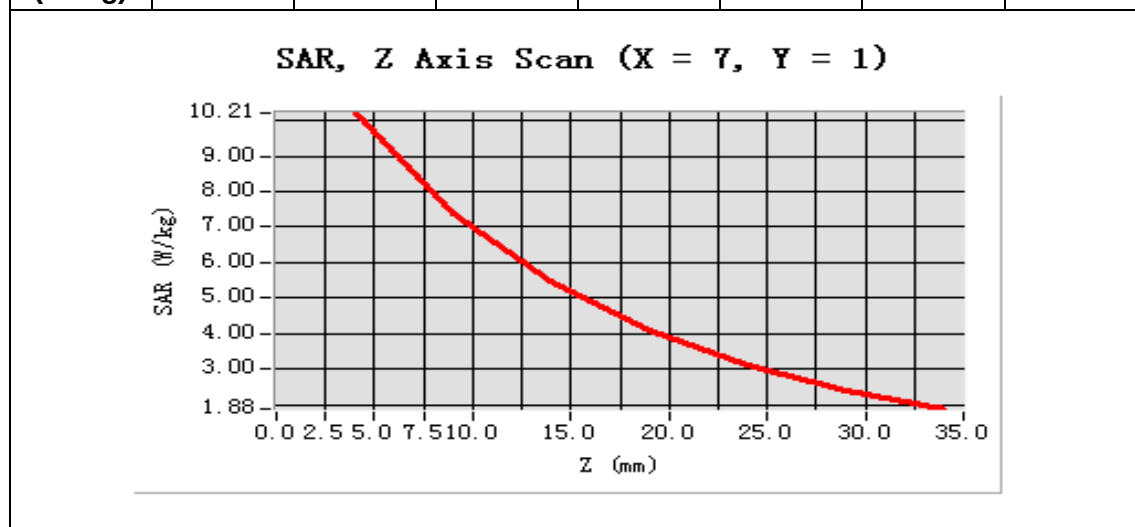


Maximum location: X=7.00, Y=1.00

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: 2018.01.22

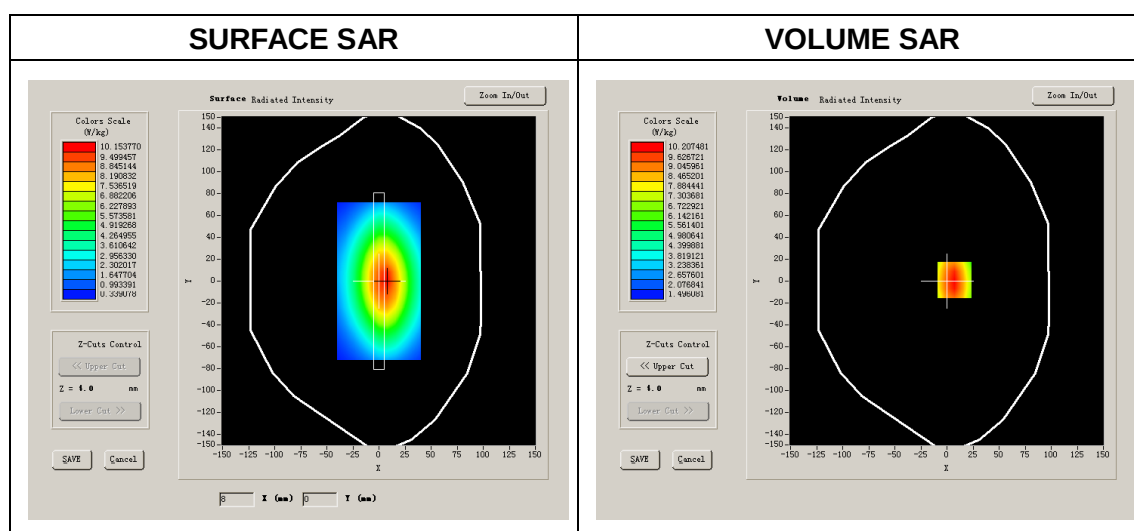
Measurement duration: 13 minutes 27 seconds

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

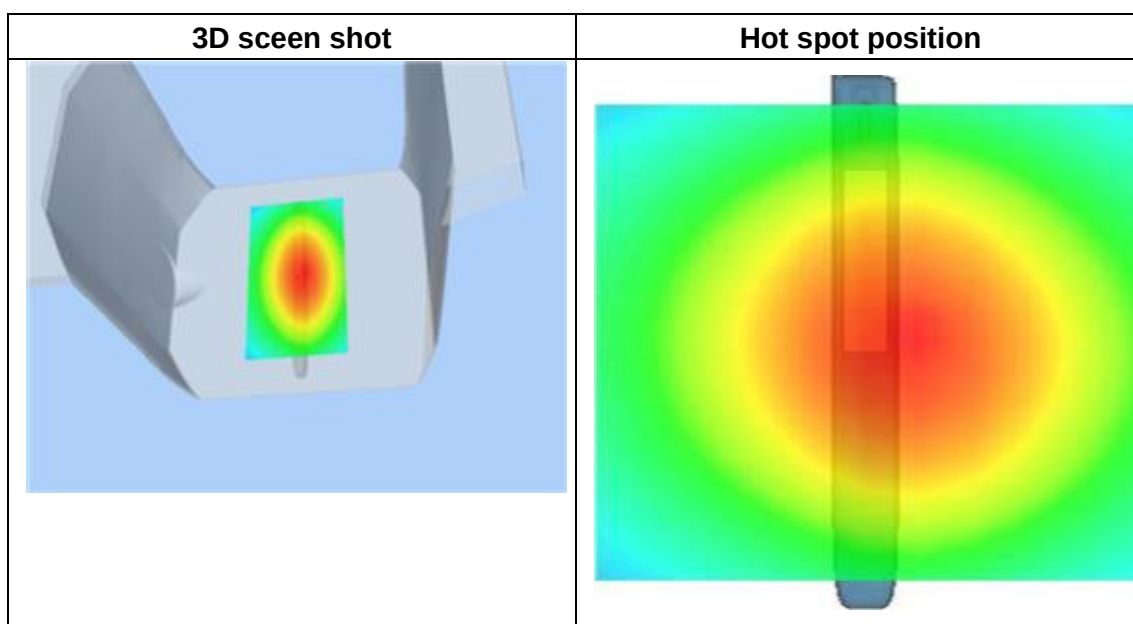
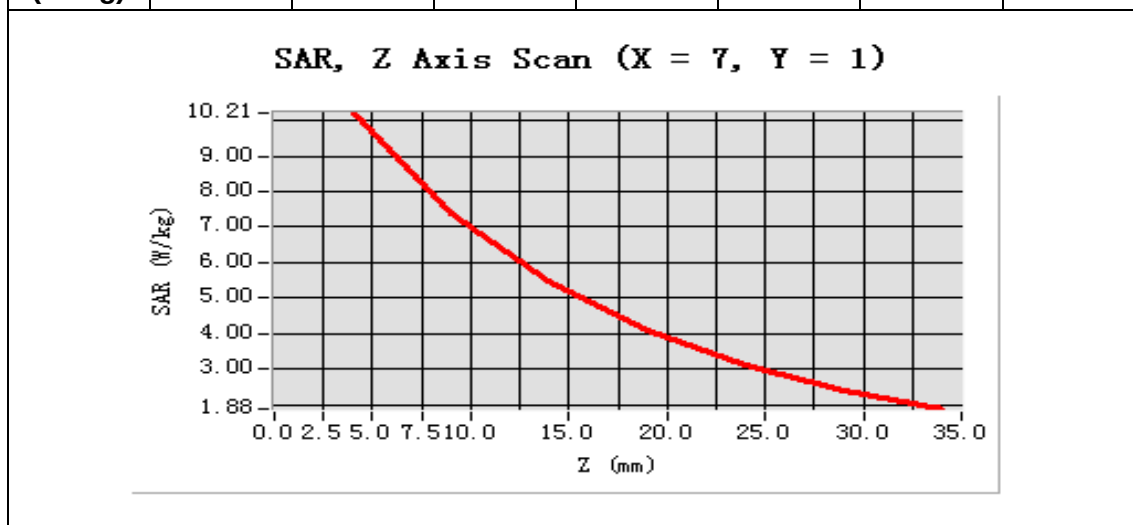


Maximum location: X=7.00, Y=1.00

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=8mm,dy=8mm

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

Date of measurement: 2018.02.06

Measurement duration: 13 minutes 31 seconds

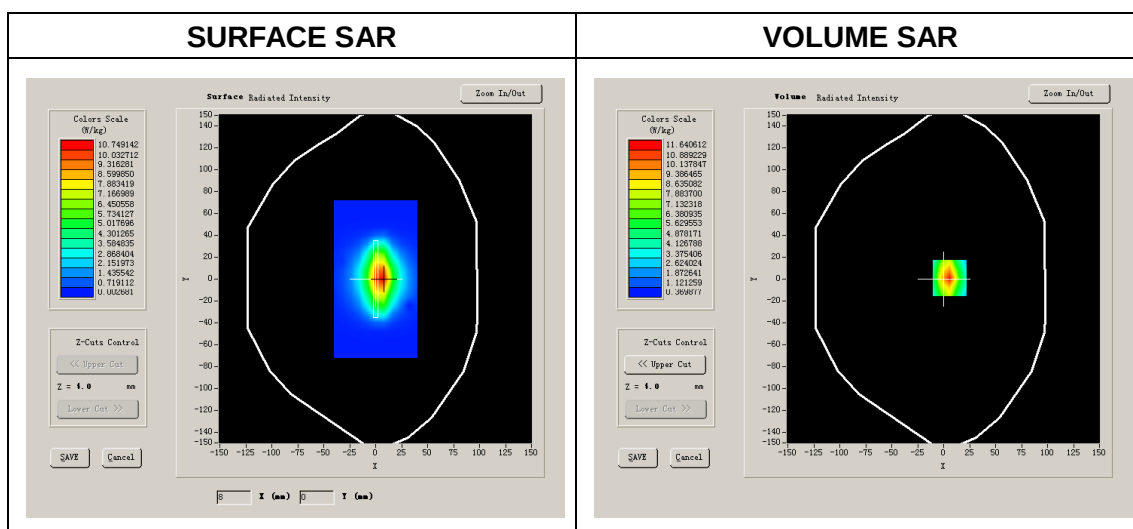
A. Experimental conditions.

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:	4.74
Crest factor:	1:1

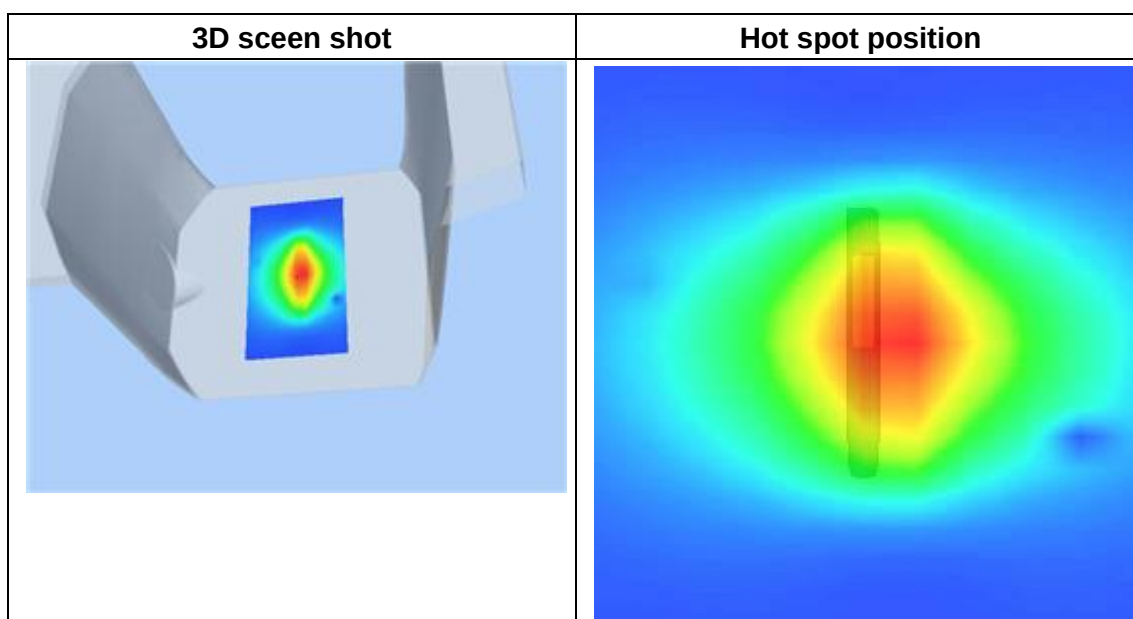
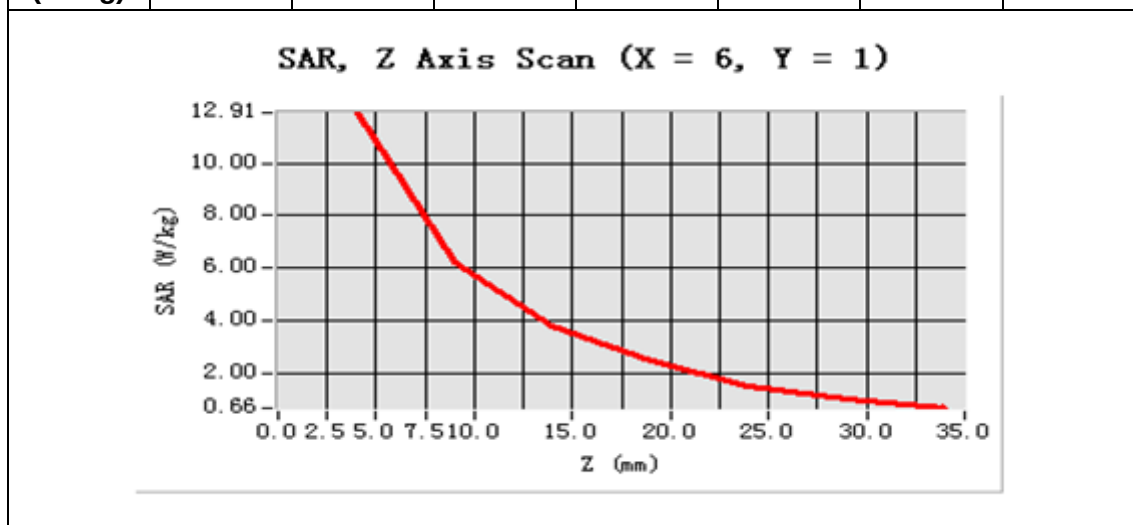


Maximum location: X=6.00, Y=1.00

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=8mm,dy=8mm

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

Date of measurement: 2018.02.08

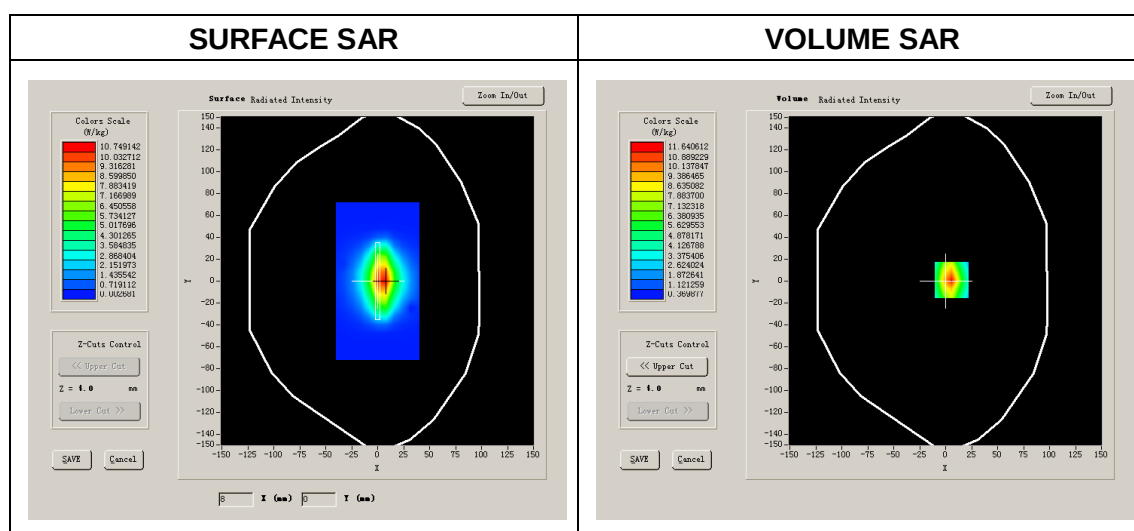
Measurement duration: 13 minutes 31 seconds

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

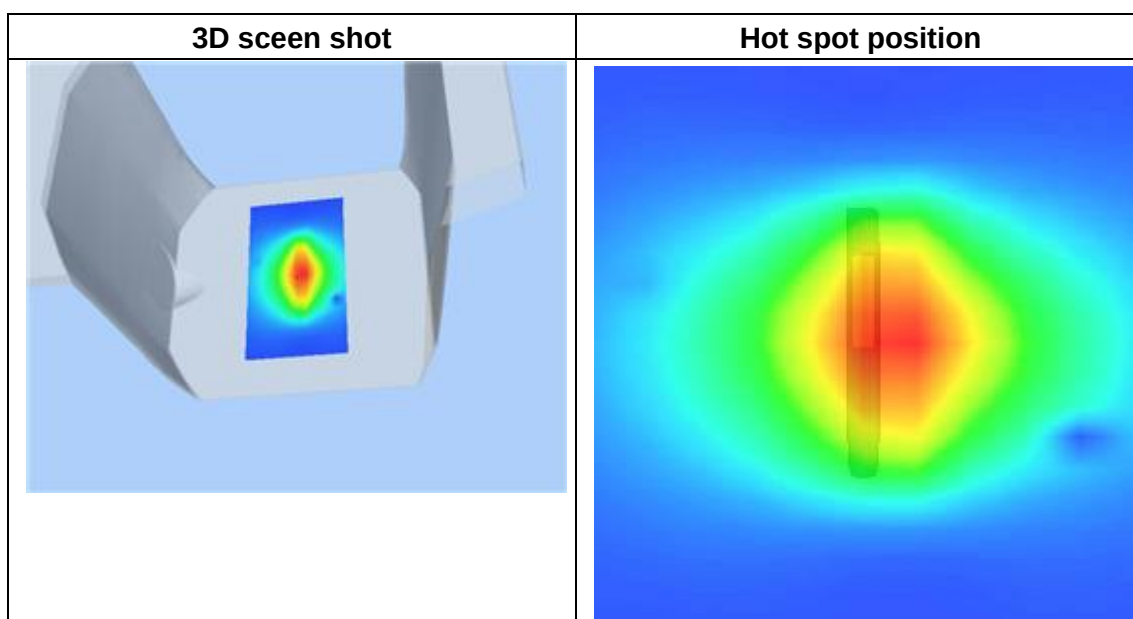
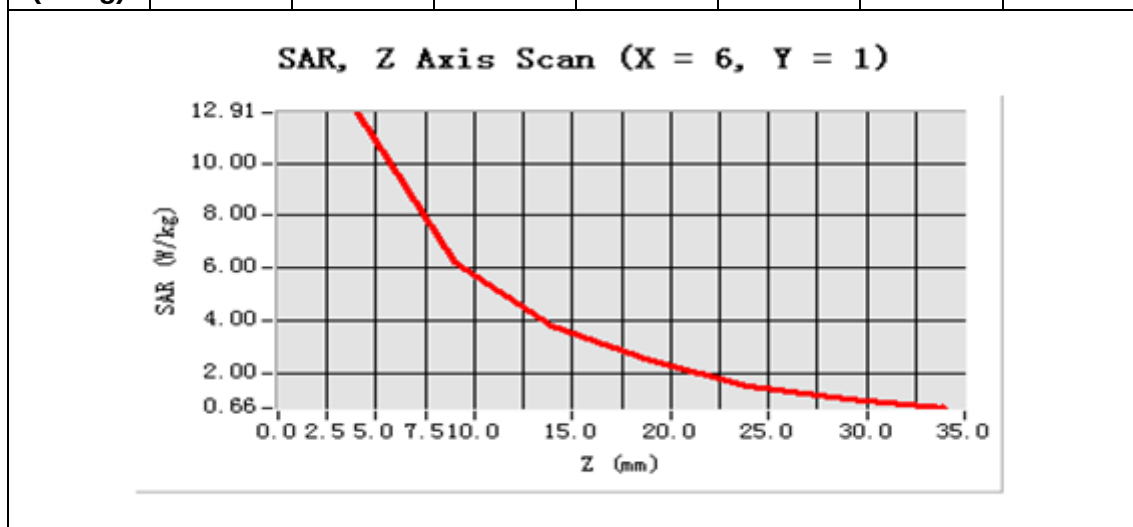


Maximum location: X=6.00, Y=1.00

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=8mm,dy=8mm

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

Date of measurement: 2018.01.17

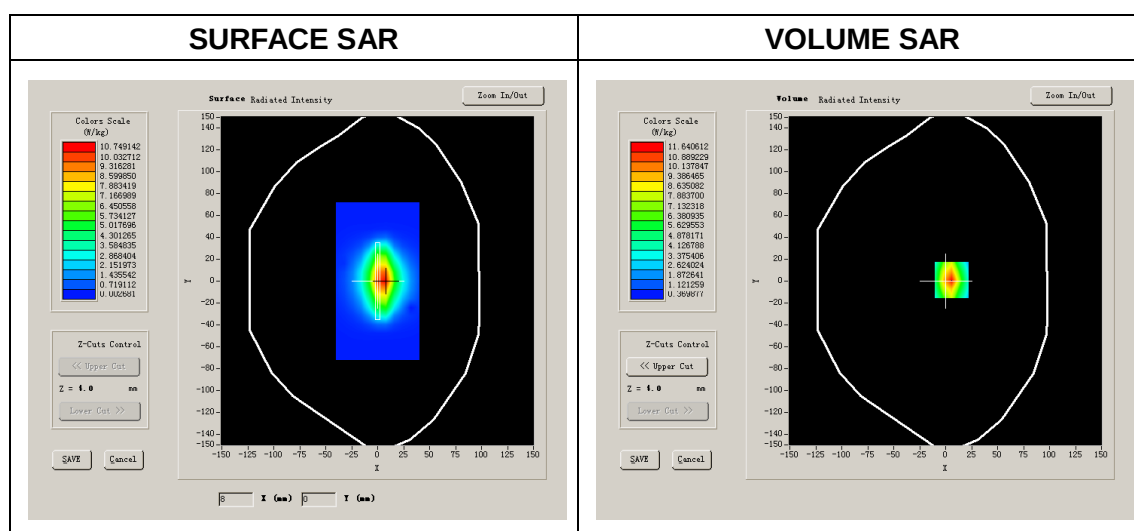
Measurement duration: 13 minutes 31 seconds

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

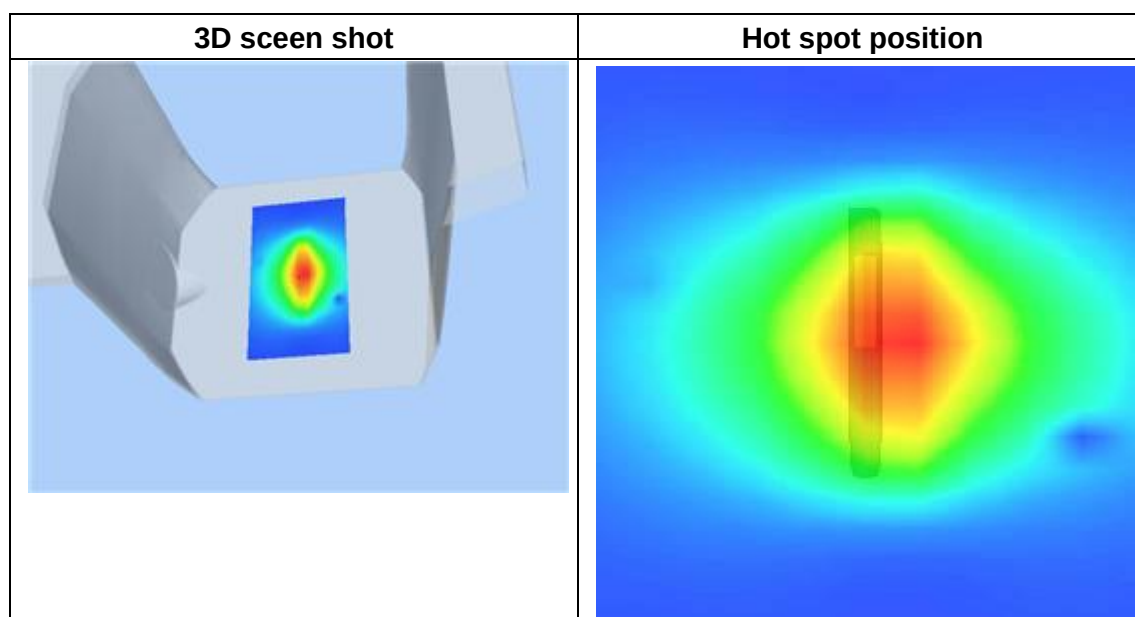
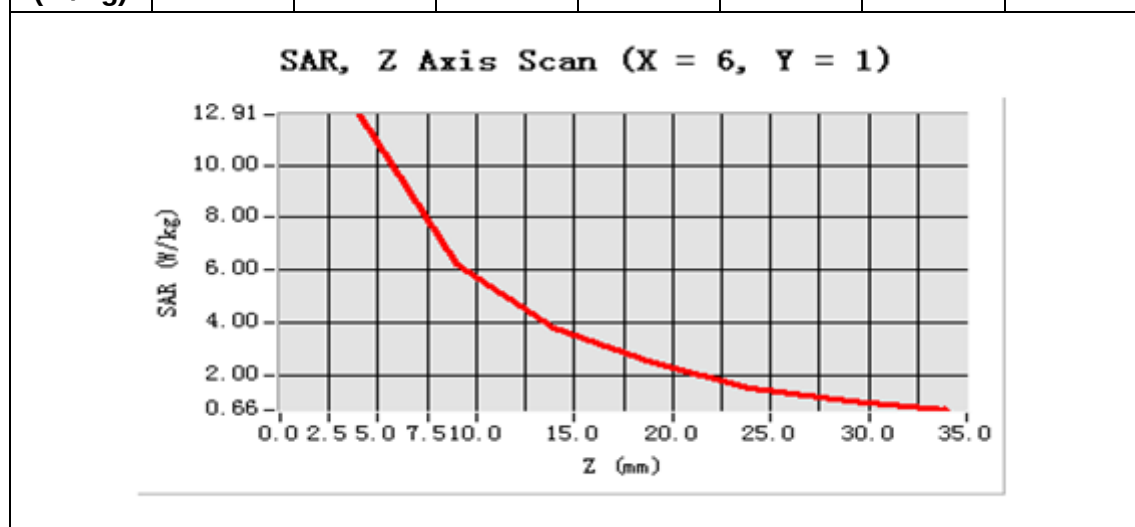


Maximum location: X=6.00, Y=1.00

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: 2018.01.22

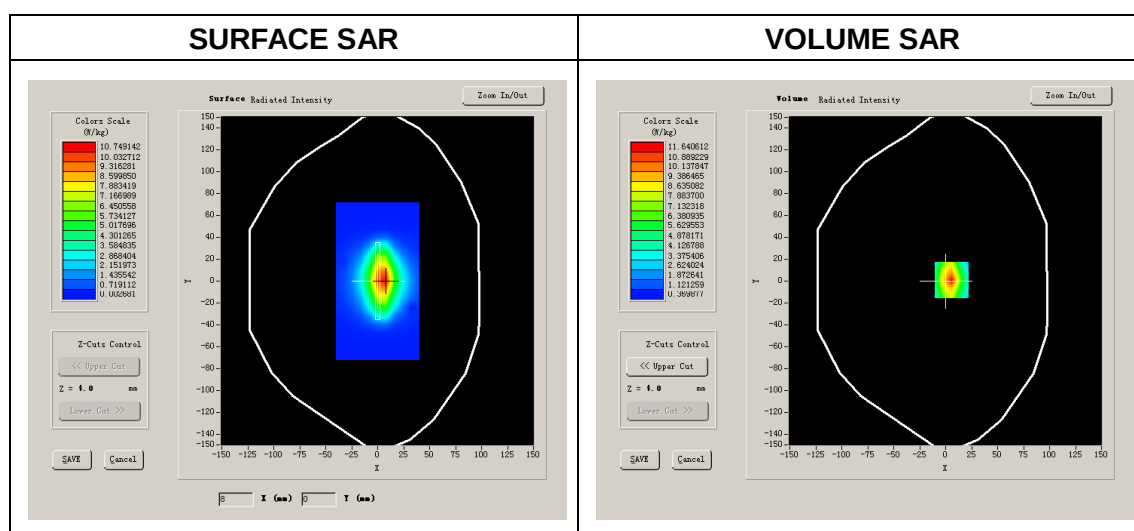
Measurement duration: 13 minutes 31 seconds

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

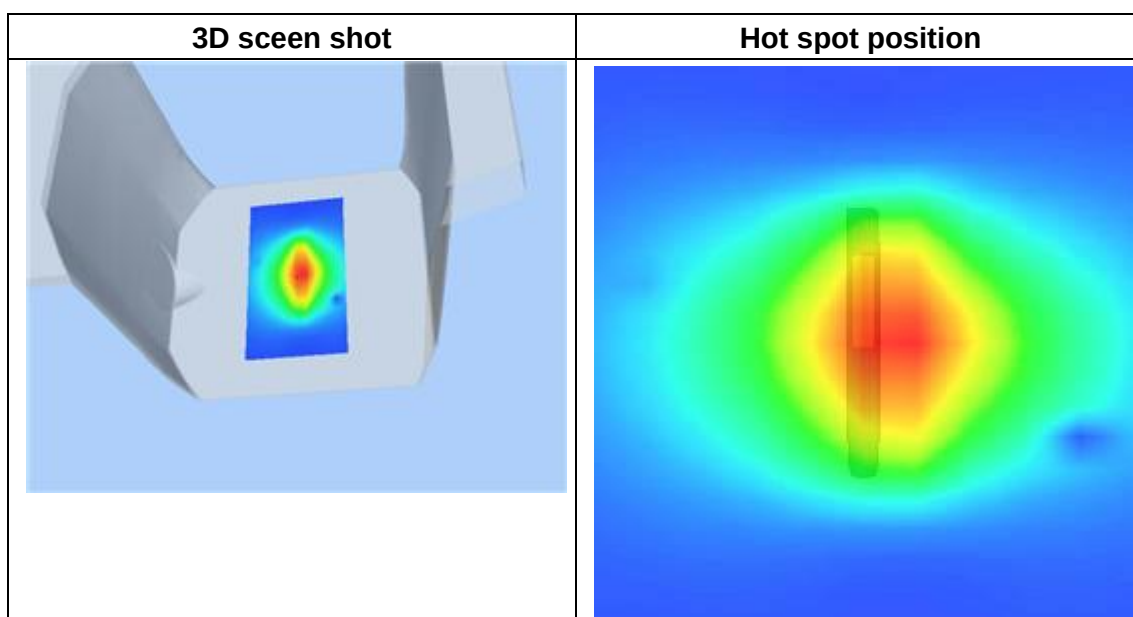
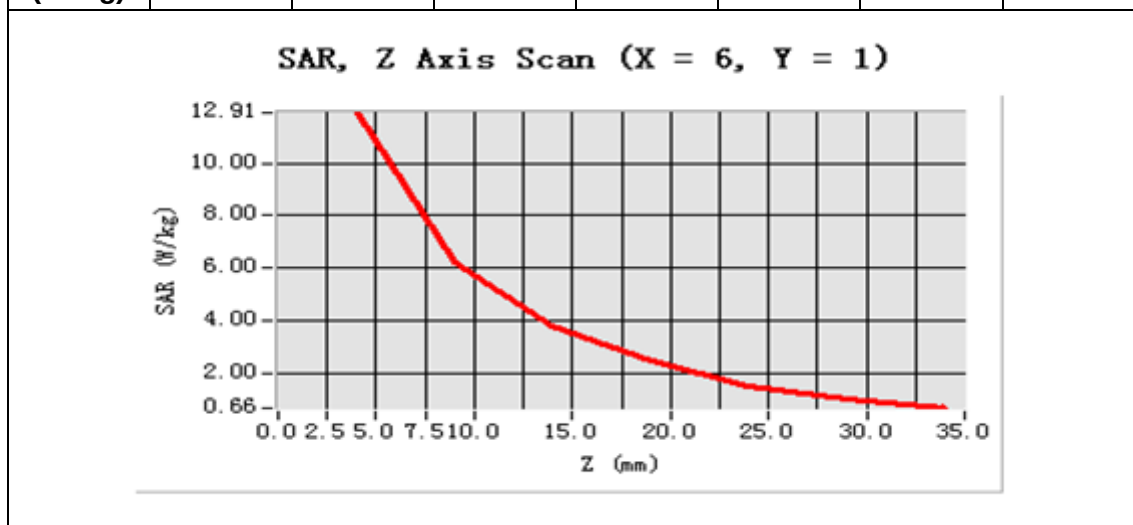


Maximum location: X=6.00, Y=1.00

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=8mm,dy=8mm

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

Date of measurement: 2018.02.02

Measurement duration: 23 minutes 27 seconds

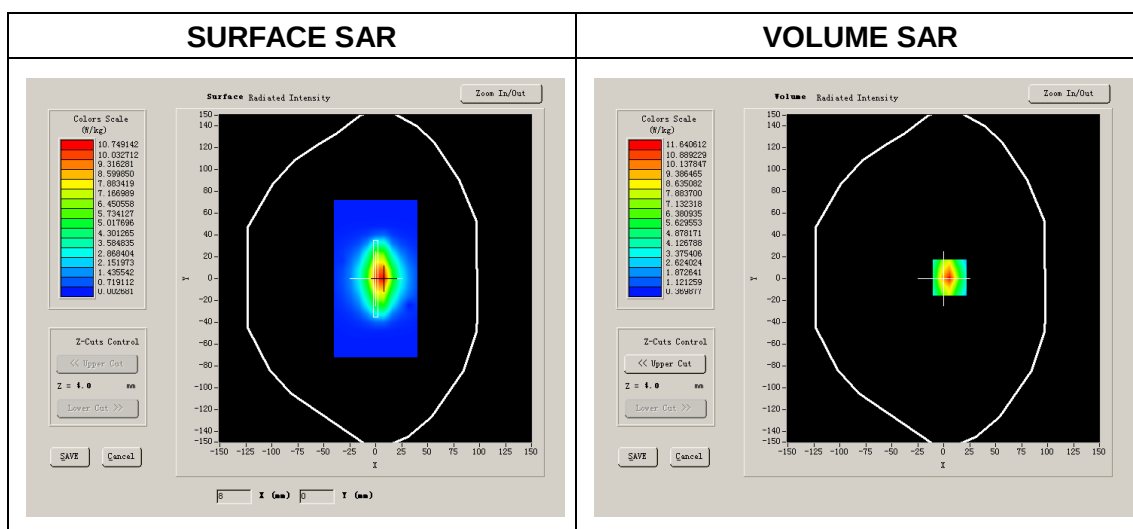
A. Experimental conditions.

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

B. SAR Measurement Results

Band SAR

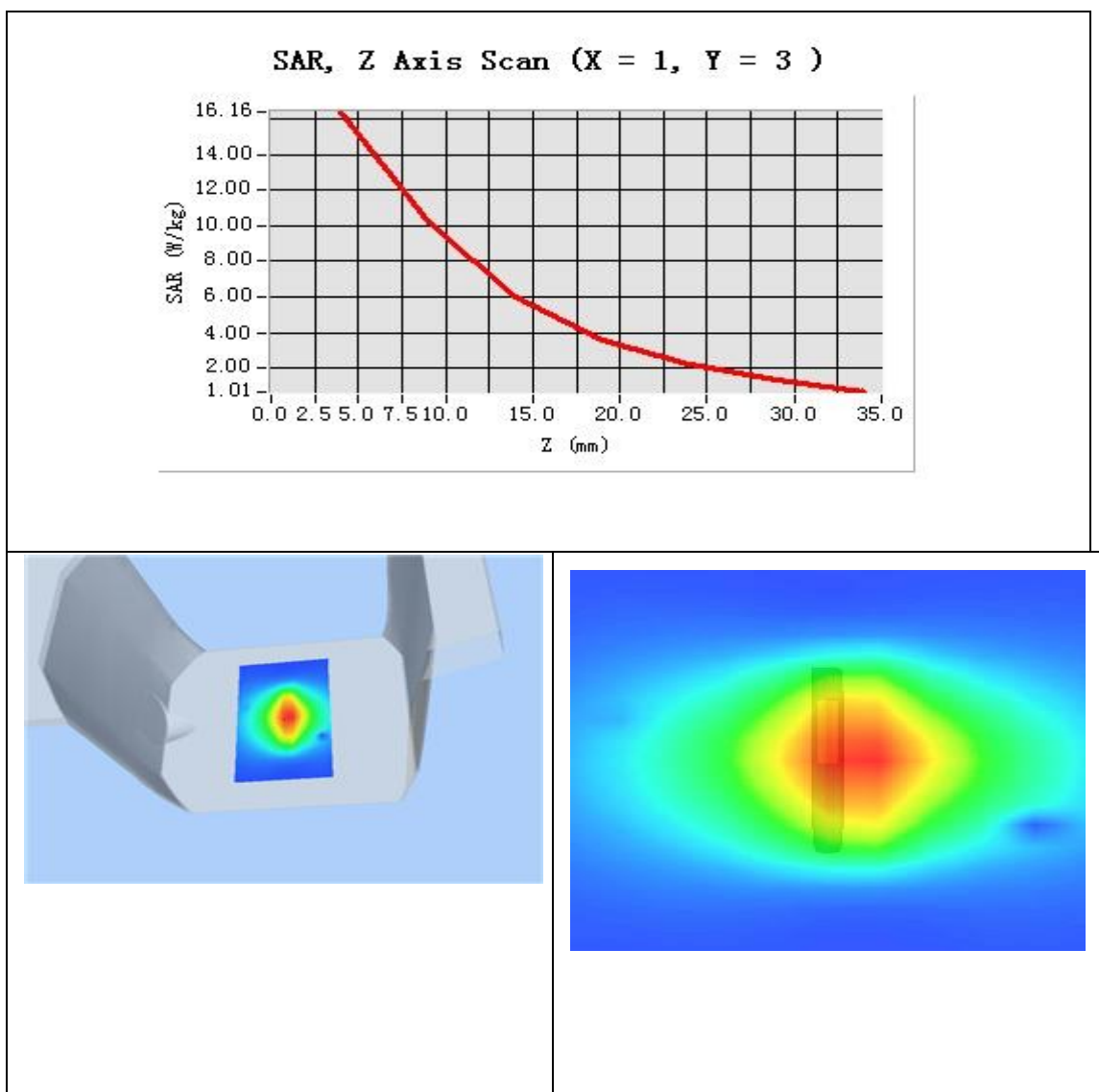
Frequency (MHz)	5200.000000
Relative permittivity (real part)	36.123014
Conductivity (S/m)	4.665260
Power Drift (%)	2.310000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	21.61
Crest factor:	1:1



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=8mm,dy=8mm

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

Date of measurement: 2018.02.02

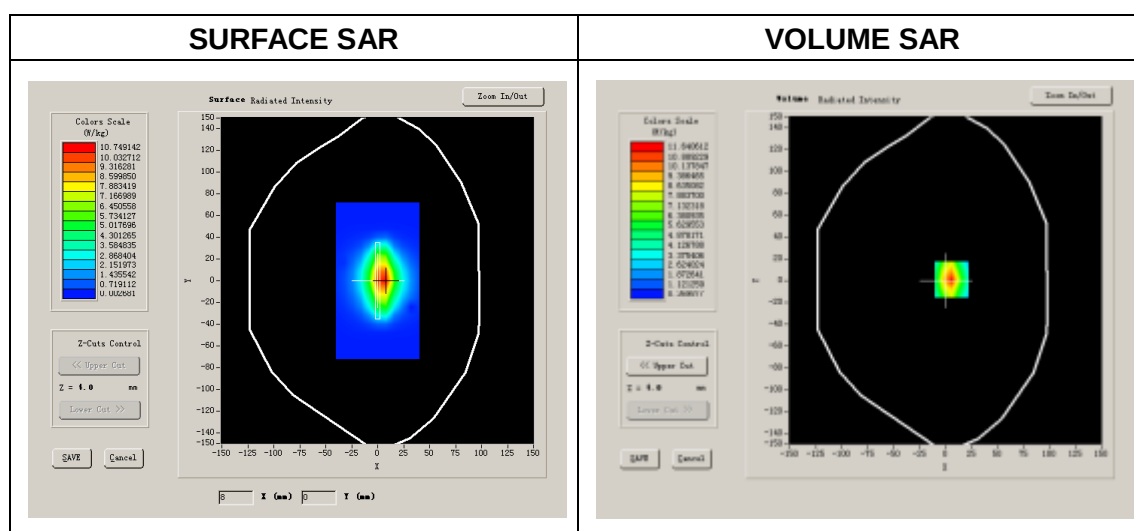
Measurement duration: 13 minutes 27 seconds

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**

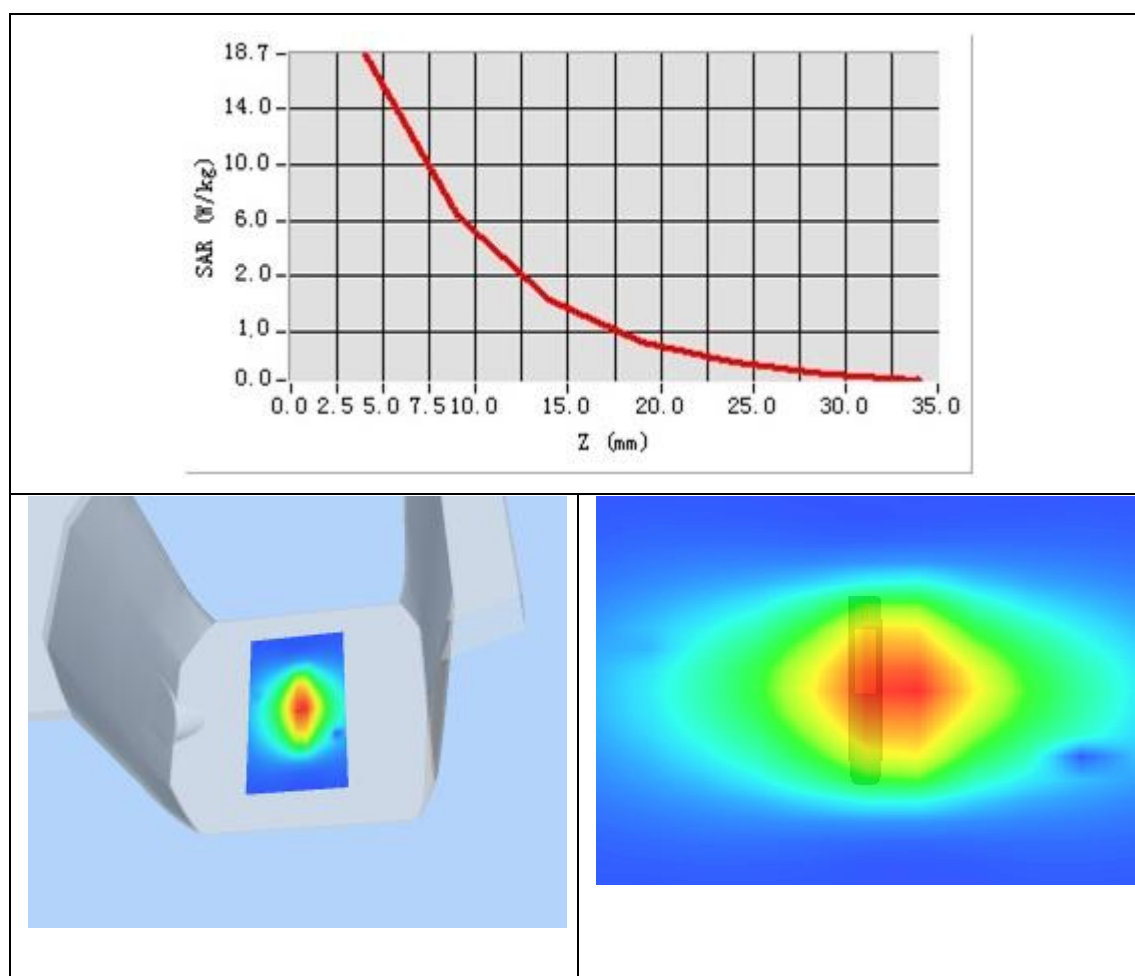
Frequency (MHz)	5600.000000
Relative permittivity (real part)	35.562139
Conductivity (S/m)	5.100255
Power Drift (%)	1.080000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	22.92
Crest factor:	1:1



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=8mm,dy=8mm

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

Date of measurement: 2018.02.02

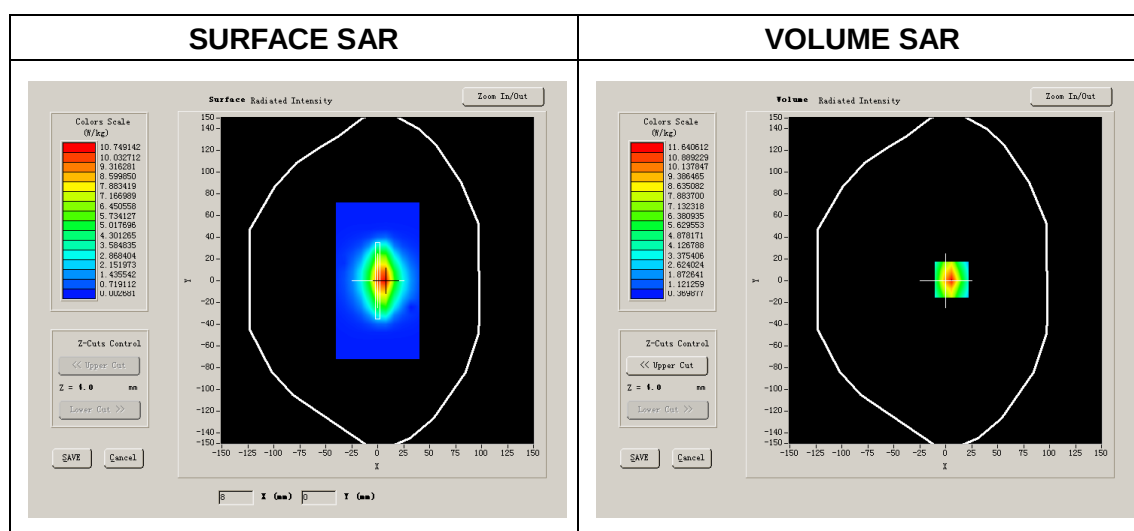
Measurement duration: 13 minutes 27 seconds

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**

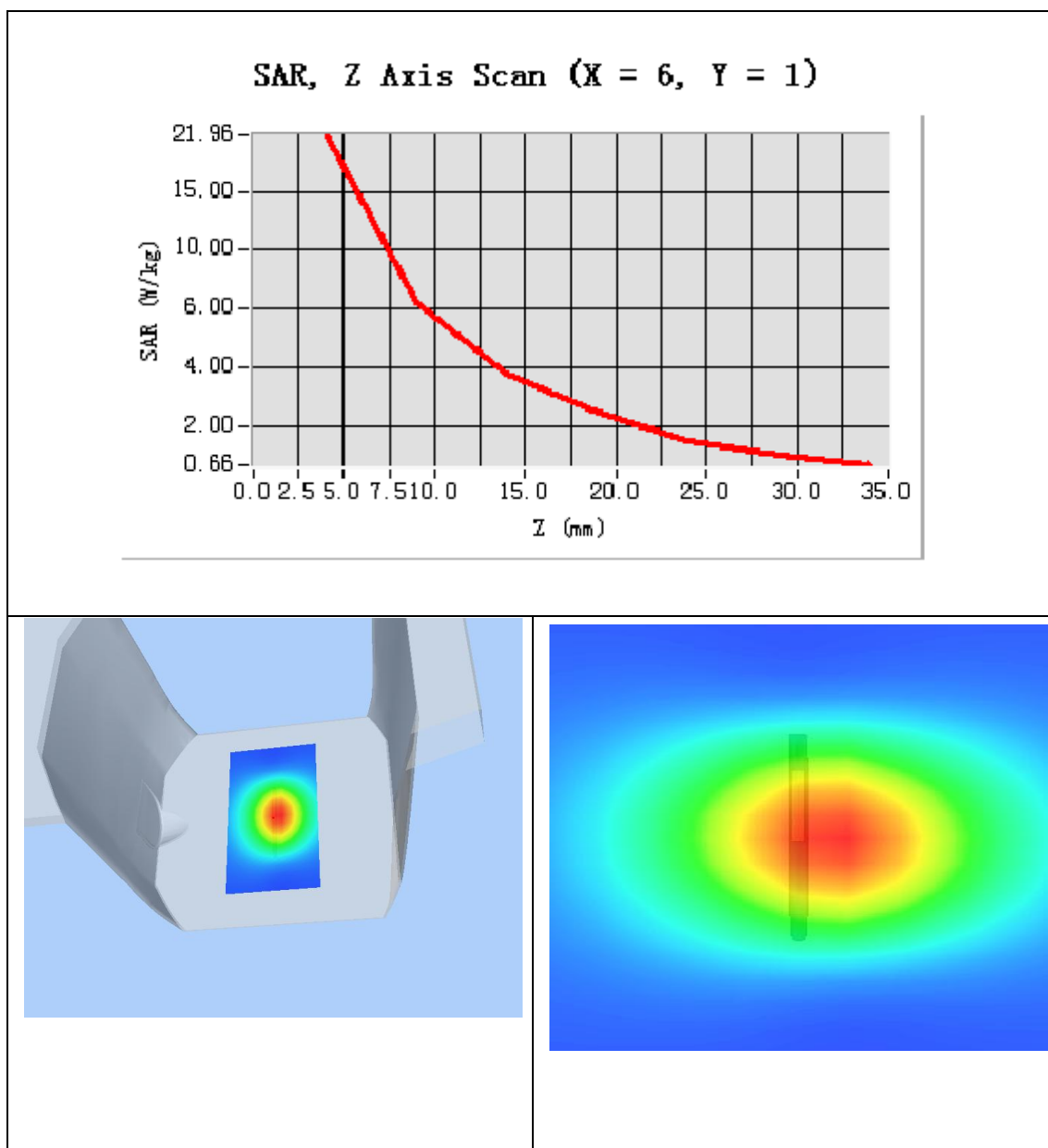
Frequency (MHz)	5800.000000
Relative permittivity (real part)	35.334675
Conductivity (S/m)	5.310226
Power Drift (%)	1.260000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	22.42
Crest factor:	1:1



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=8mm,dy=8mm

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

Date of measurement: 2018.02.02

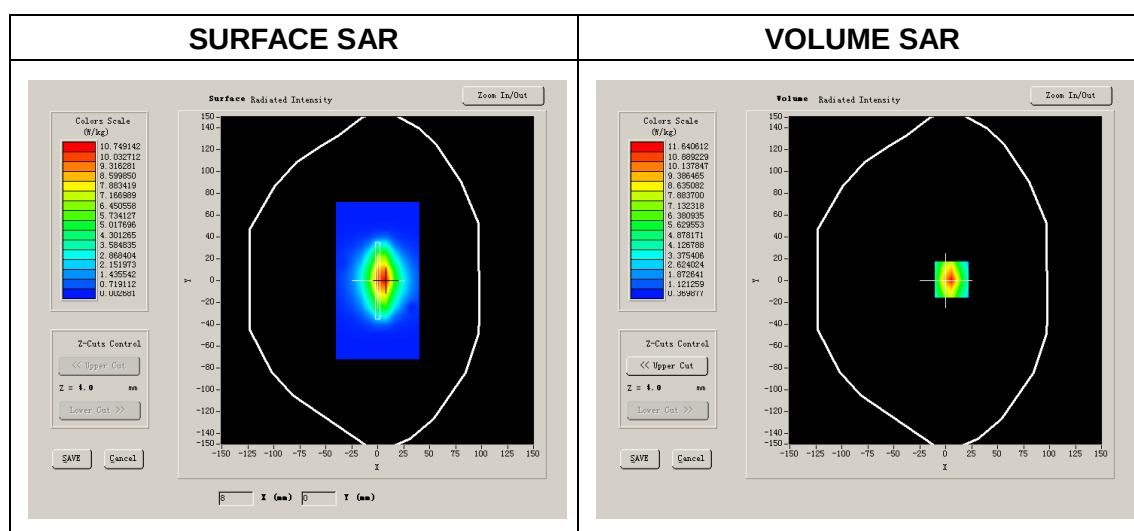
Measurement duration: 23 minutes 27 seconds

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**

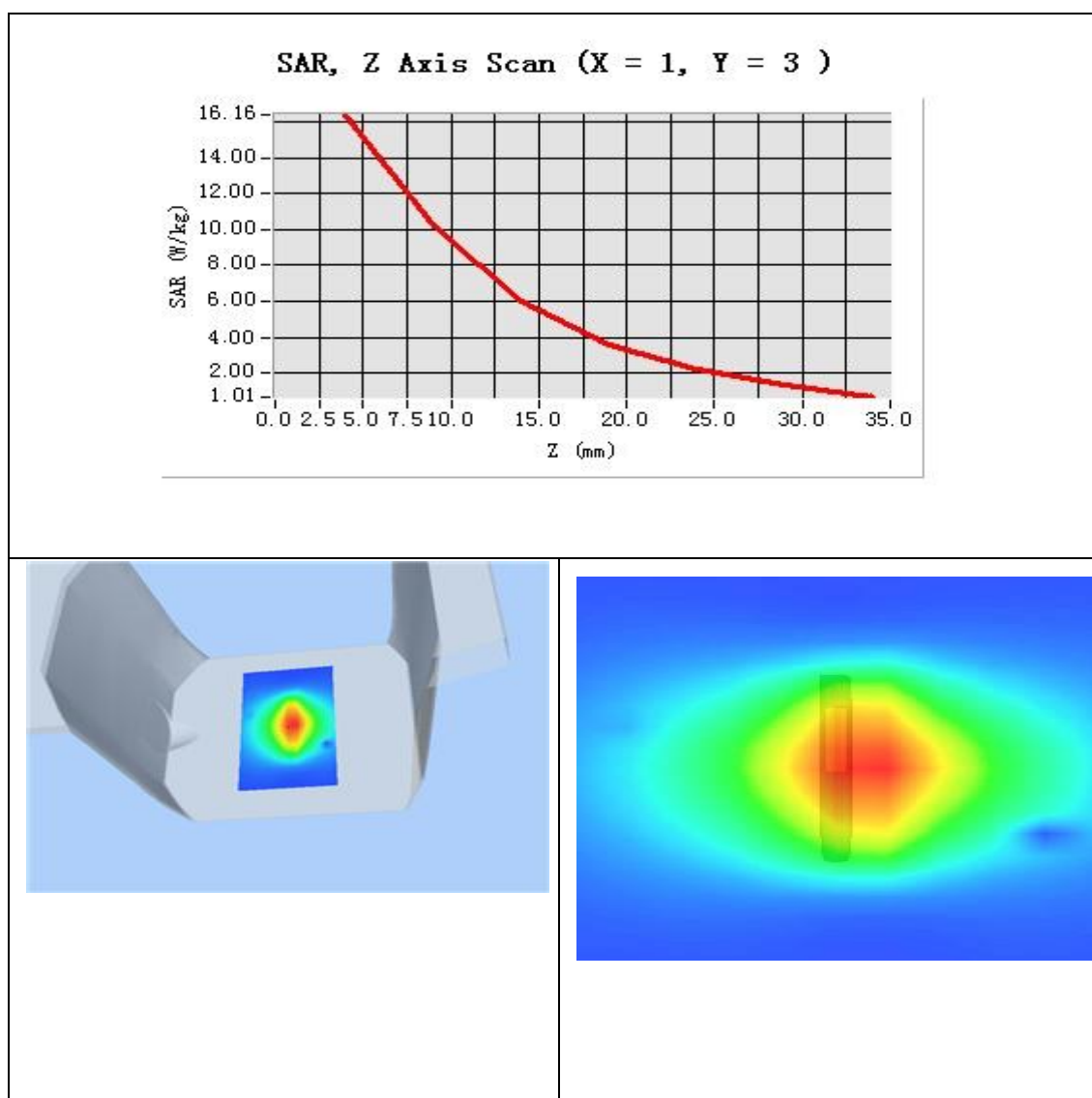
Frequency (MHz)	5200.000000
Relative permittivity (real part)	48.273014
Conductivity (S/m)	5.443260
Power Drift (%)	2.310000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	22.11
Crest factor:	1:1



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=8mm,dy=8mm

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

Date of measurement: 2018.02.02

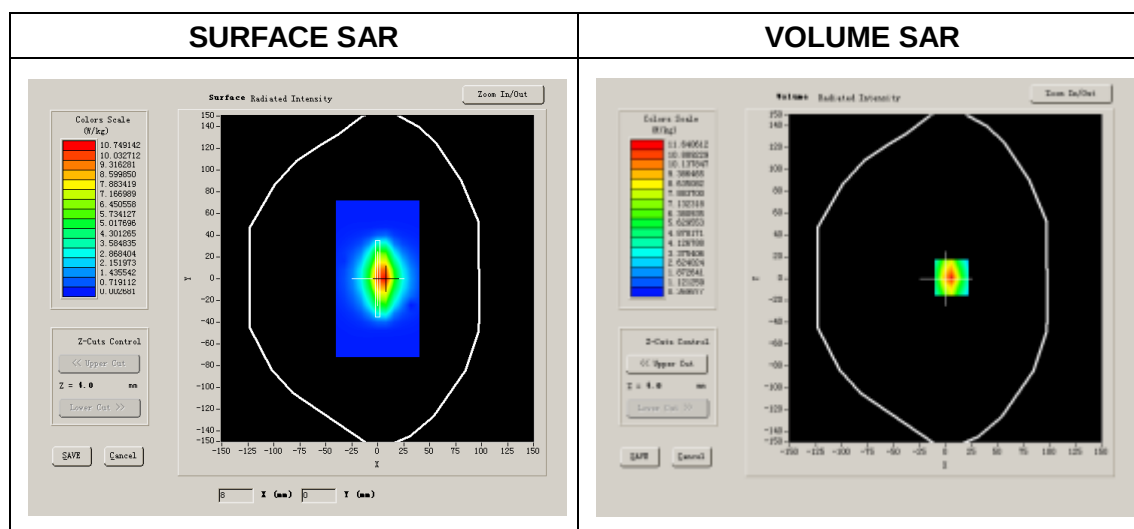
Measurement duration: 13 minutes 27 seconds

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**

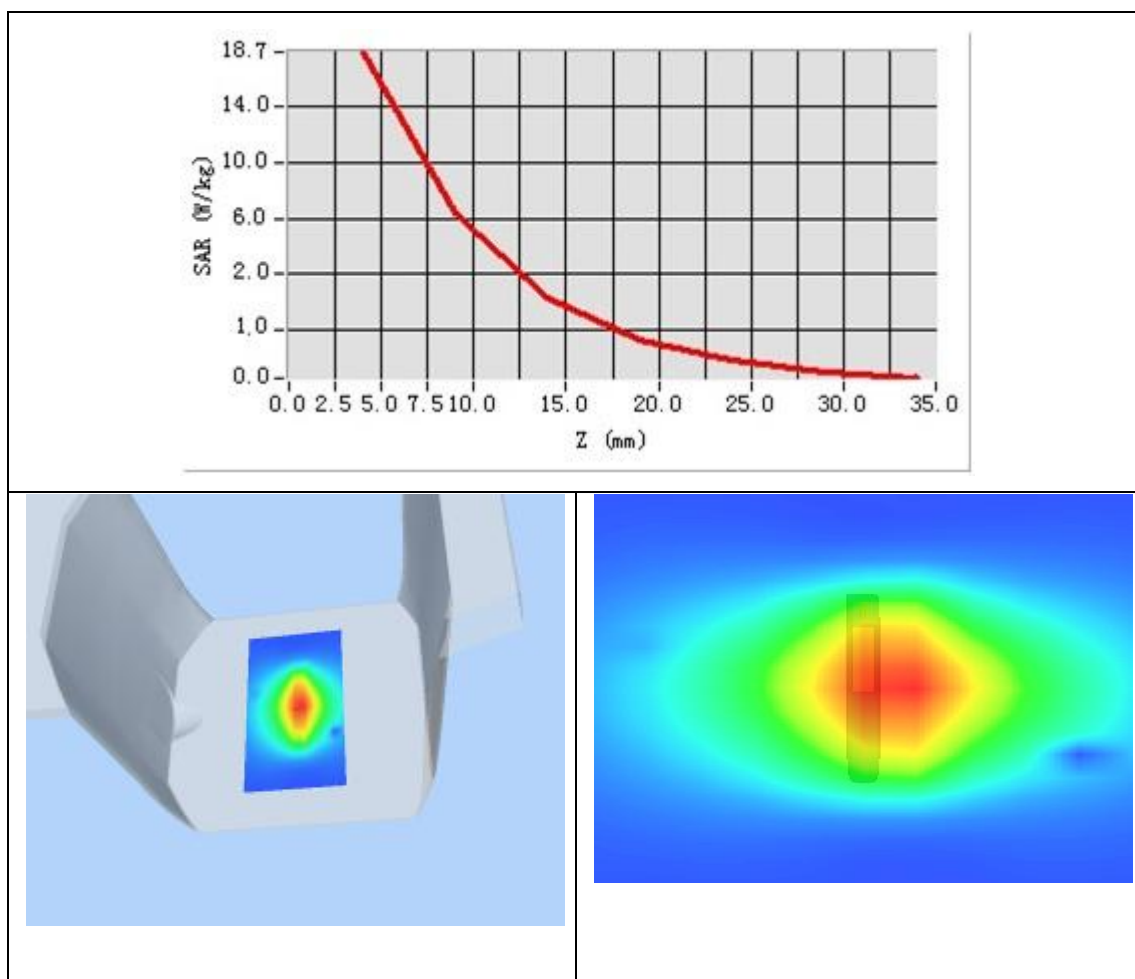
Frequency (MHz)	5600.000000
Relative permittivity (real part)	48.394381
Conductivity (S/m)	5.7432600
Power Drift (%)	1.080000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	23.69
Crest factor:	1:1



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=8mm,dy=8mm

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

Date of measurement: 2018.02.02

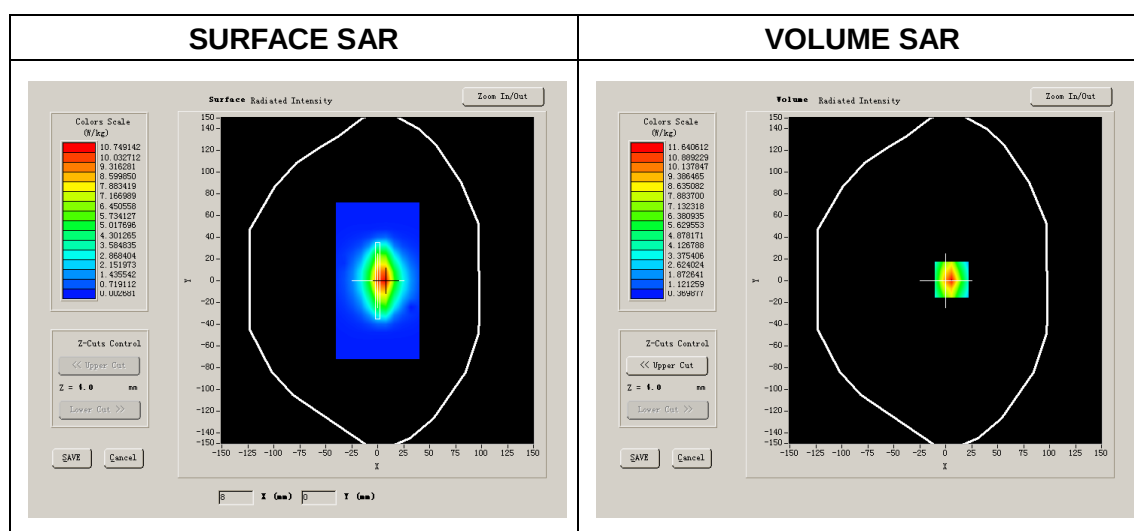
Measurement duration: 23 minutes 27 seconds

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**

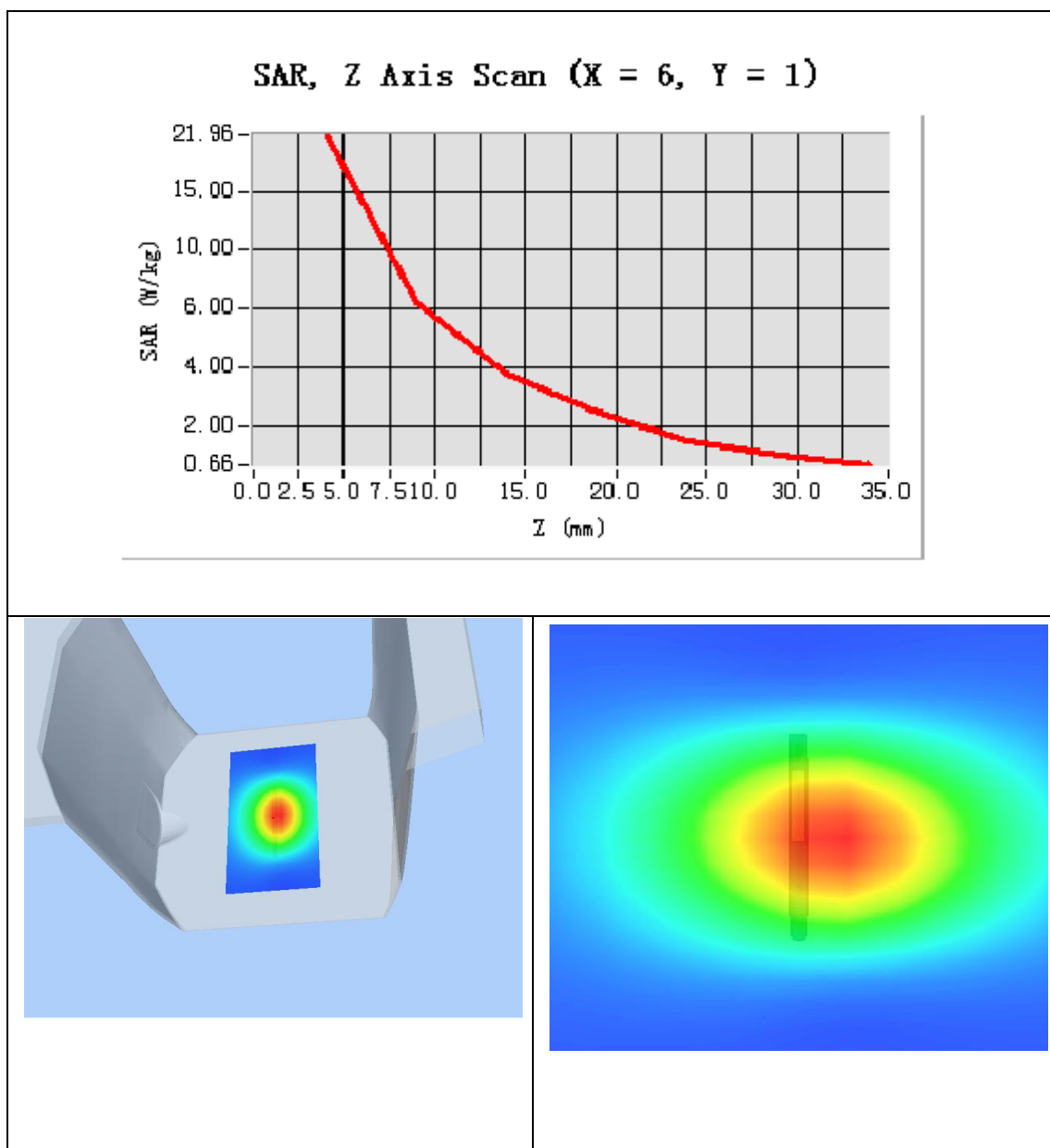
Frequency (MHz)	5800.000000
Relative permittivity (real part)	48.093428
Conductivity (S/m)	5.930716
Power Drift (%)	1.260000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	23.02
Crest factor:	1:1



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

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

Z Axis Scan



Annex D Plots of Maximum SAR Test Results

MEASUREMENT 1

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.01.17

Measurement duration: 16 minutes 20 seconds

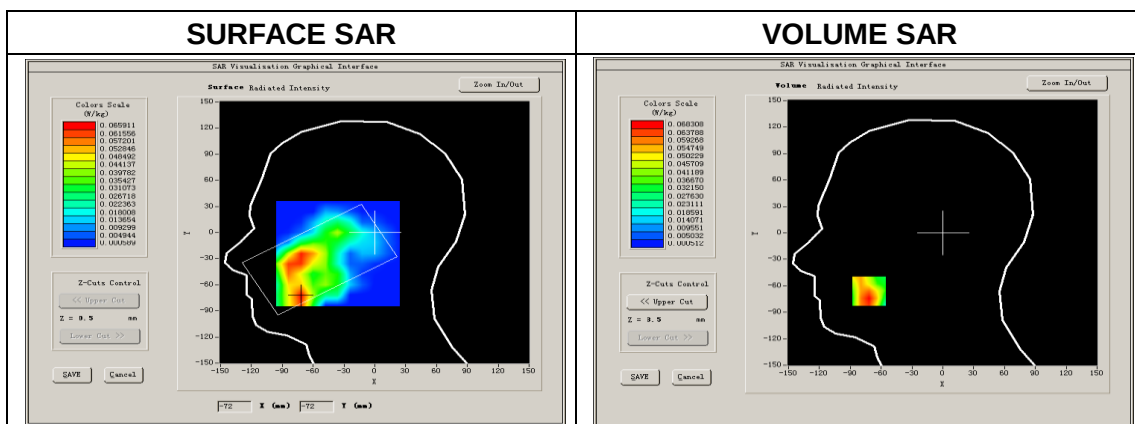
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band2_WCDMA1900</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>RMC</u>

B. SAR Measurement Results

Lower Band SAR (Channel 9262):

Frequency (MHz)	1852.400024
Relative permittivity (real part)	40.300000
Conductivity (S/m)	1.370851
Power drift (%)	-3.540000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.4°C
ConvF:	5.61
Duty cycle:	1:1



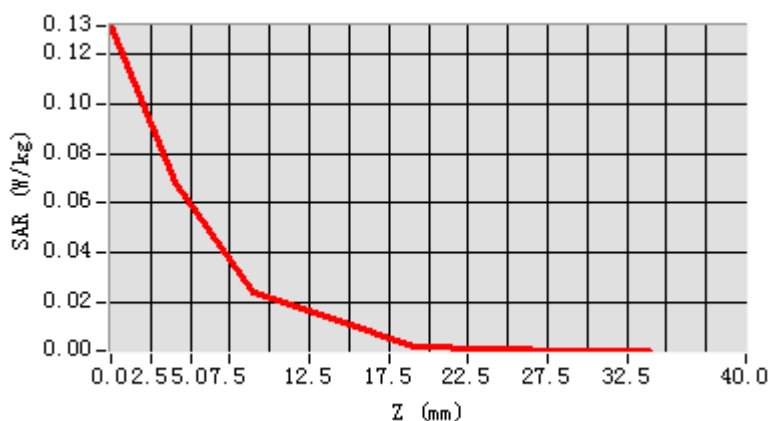
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

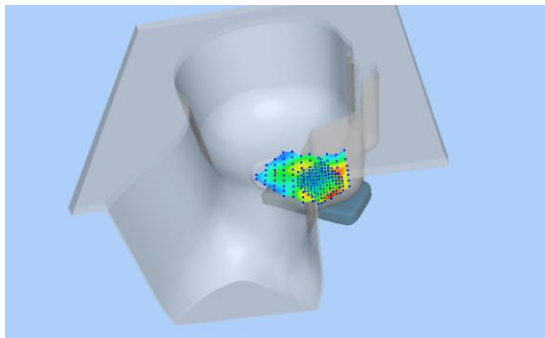
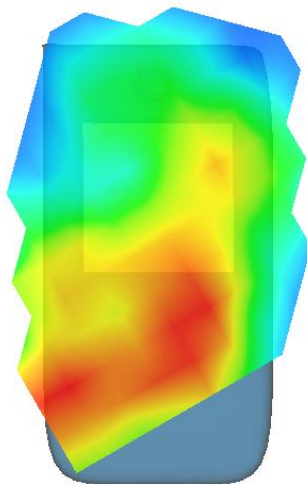
Maximum location: X=-72.00, Y=-66.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.091693
SAR 1g (W/Kg)	0.158999

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1315	0.0683	0.0241	0.0138	0.0021	0.0013	0.0005



3D screen shot	Hot spot position
	

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**MEASUREMENT 2**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.01.22

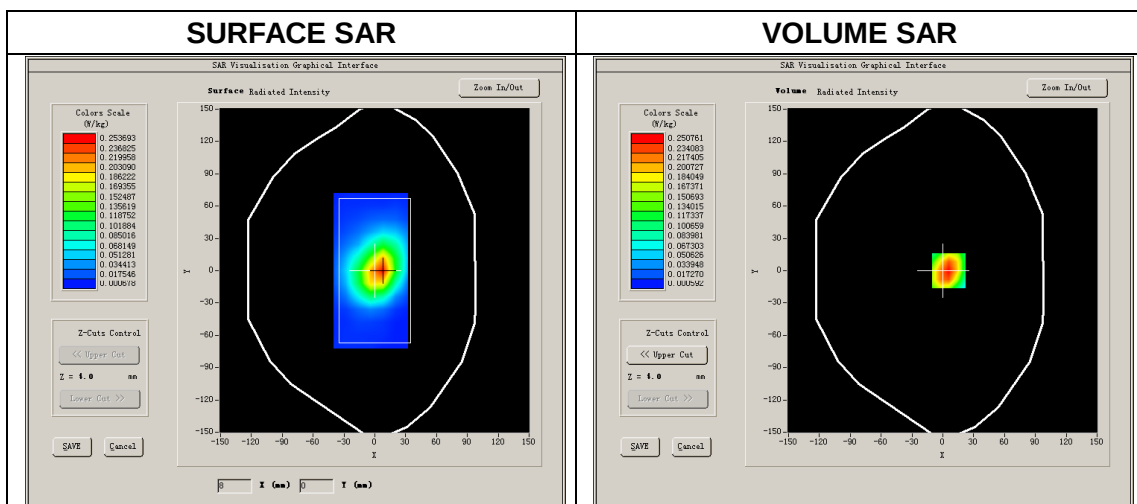
Measurement duration: 15 minutes 56 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Flat</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band2 WCDMA1900</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>RMC</u>

B. SAR Measurement ResultsLower Band SAR (Channel 9262):

Frequency (MHz)	1852.400024
Relative permittivity (real part)	53.399999
Conductivity (S/m)	1.501109
Power drift (%)	-1.660000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.4°C
ConvF:	5.71
Duty cycle:	1:1



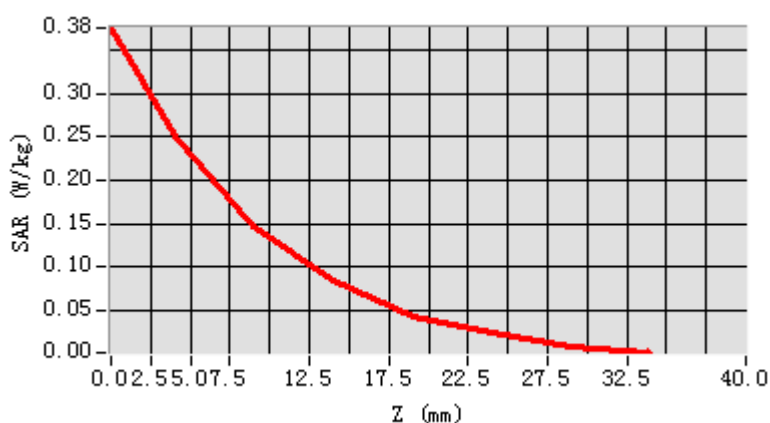
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

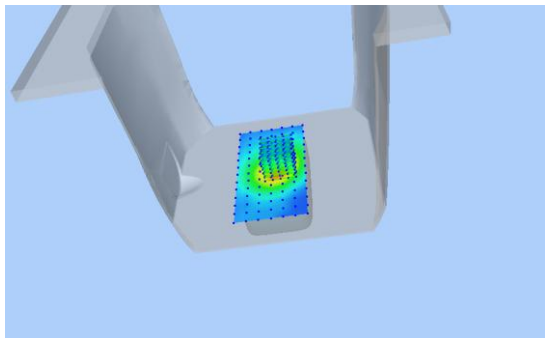
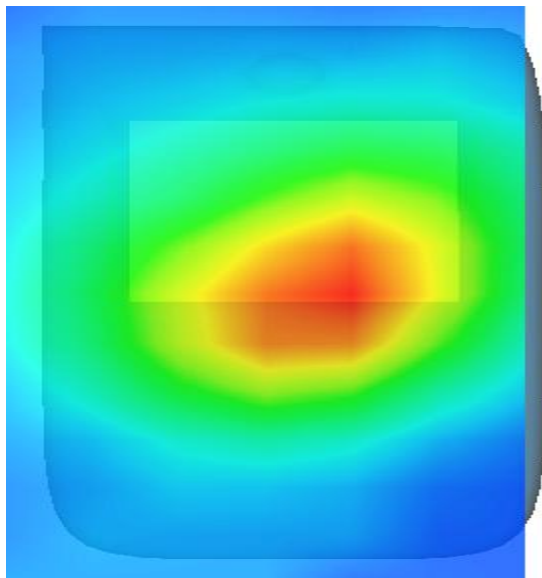
Maximum location: X=6.00, Y=0.00

SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.127896
SAR 1g (W/Kg)	0.236923

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3756	0.2508	0.1474	0.0851	0.0444	0.0258	0.0076



3D screen shot	Hot spot position
	

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**MEASUREMENT 3**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.01.31

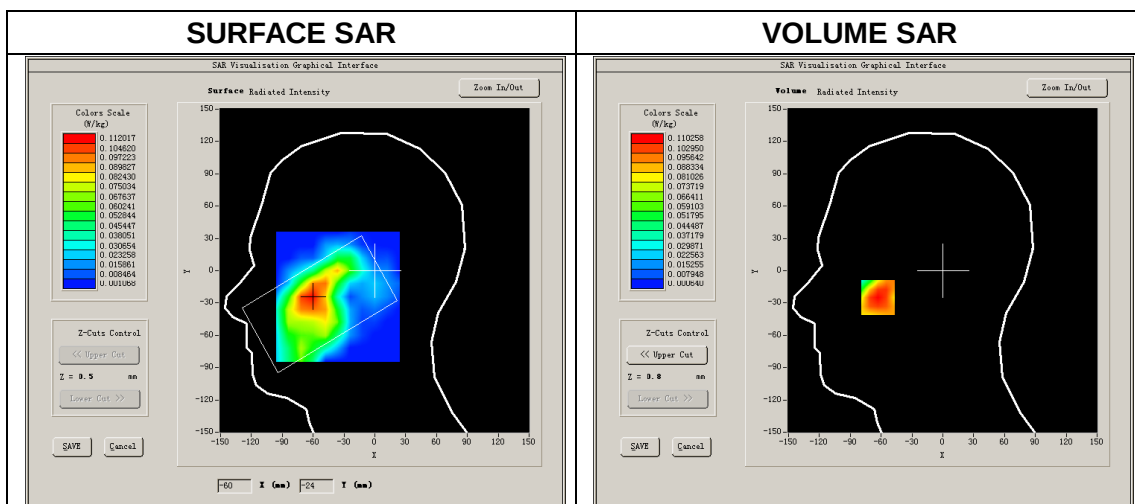
Measurement duration: 16 minutes 19 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band4 WCDMA1700</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>RMC</u>

B. SAR Measurement ResultsHigher Band SAR (Channel 1513):

Frequency (MHz)	1752.000000
Relative permittivity (real part)	40.198001
Conductivity (S/m)	1.331076
Power drift (%)	-4.100000
Ambient Temperature:	22.3℃
Liquid Temperature:	22.6℃
ConvF:	5.21
Crest factor:	1:1



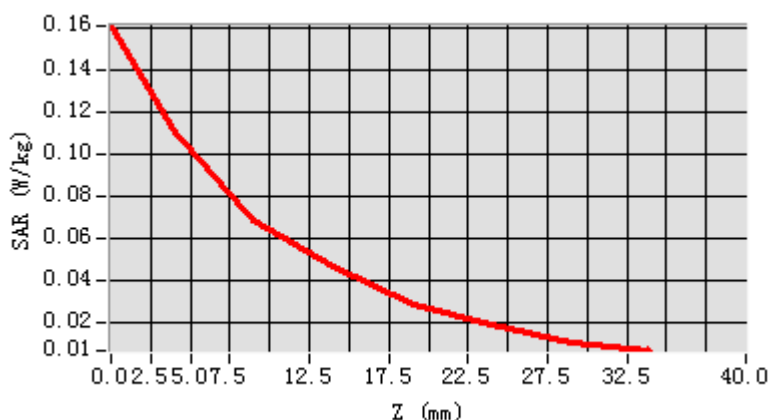
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

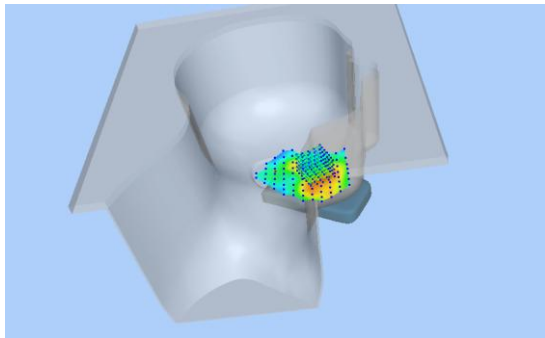
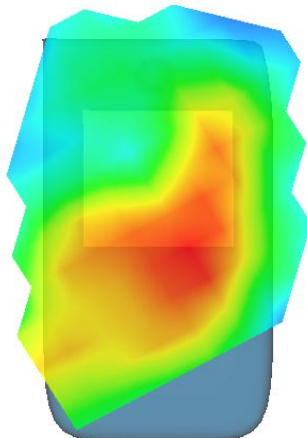
Maximum location: X=-63.00, Y=-25.00

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.084895
SAR 1g (W/Kg)	0.160693

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1611	0.1103	0.0682	0.0464	0.0280	0.0184	0.0105



3D screen shot	Hot spot position
	

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**MEASUREMENT 4**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.02.02

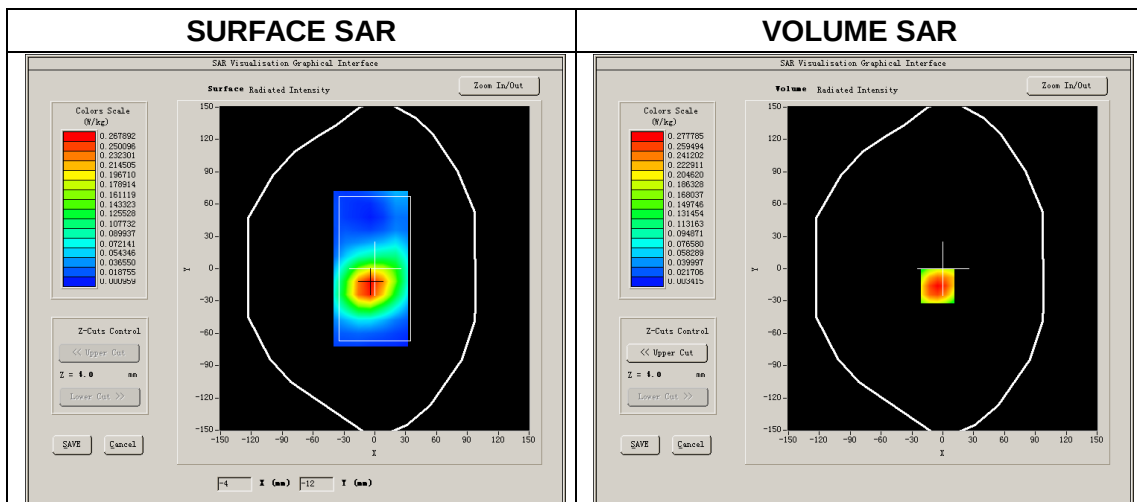
Measurement duration: 16 minutes 54 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Flat</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band4 WCDMA1700</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>RMC</u>

B. SAR Measurement ResultsHigher Band SAR (Channel 1513):

Frequency (MHz)	1752.000000
Relative permittivity (real part)	53.426315
Conductivity (S/m)	1.490532
Power drift (%)	-0.090000
Ambient Temperature:	22.3℃
Liquid Temperature:	22.6℃
ConvF:	5.38
Crest factor:	1:1



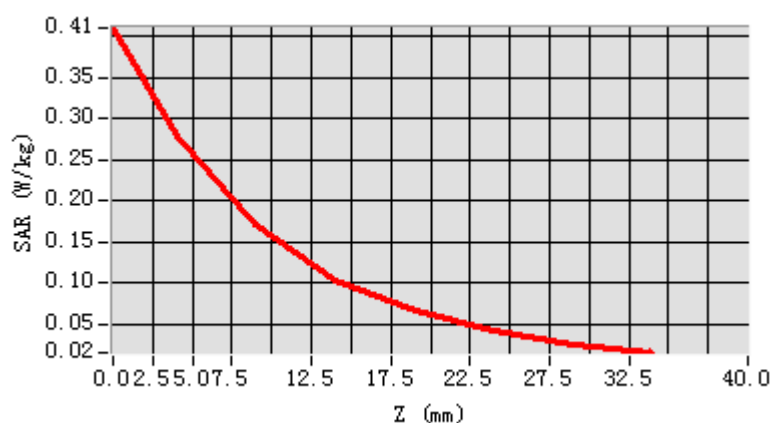
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

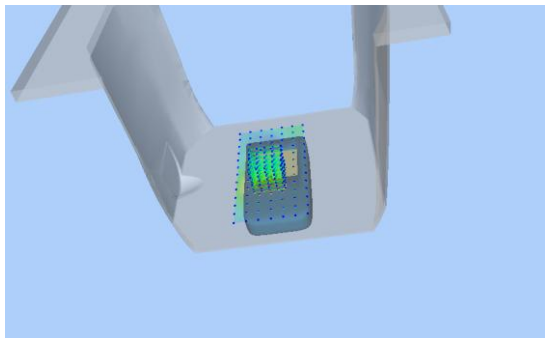
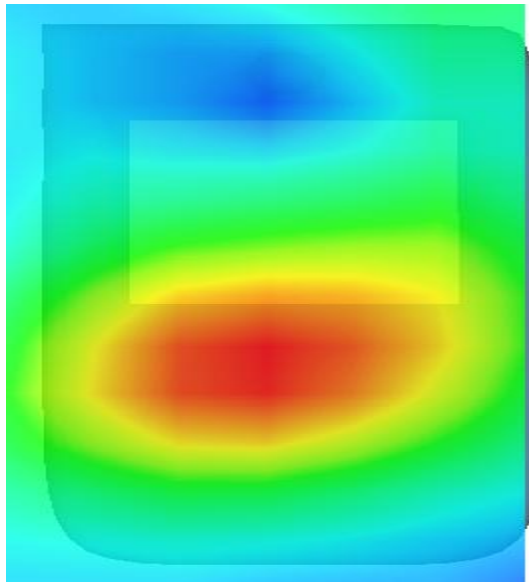
Maximum location: X=-5.00, Y=-16.00

SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.157412
SAR 1g (W/Kg)	0.266374

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4105	0.2778	0.1707	0.1028	0.0675	0.0426	0.0260



3D screen shot	Hot spot position
	

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MEASUREMENT 5

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.01.19

Measurement duration: 16 minutes 19 seconds

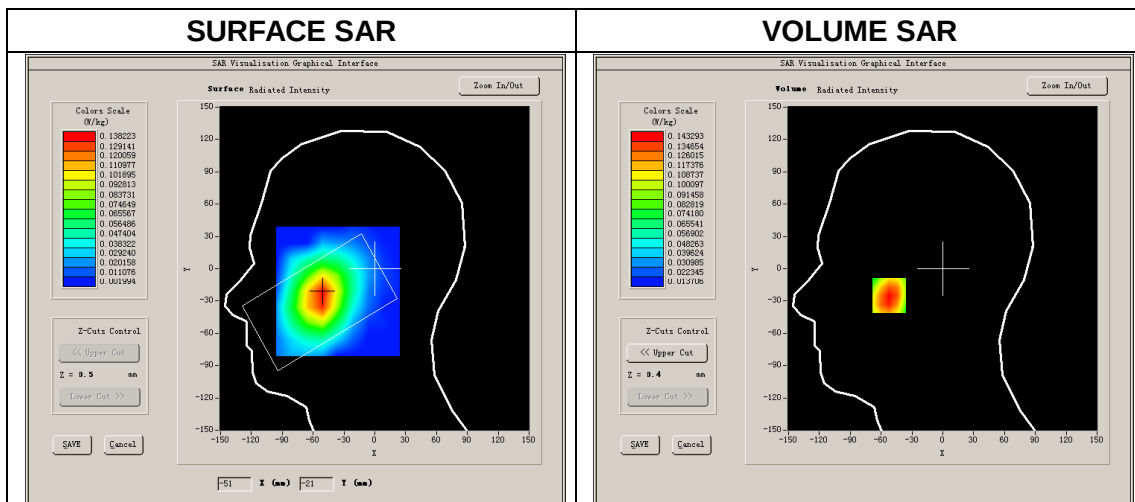
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band5_WCDMA850</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>RMC</u>

B. SAR Measurement Results

Higher Band SAR (Channel 4233):

Frequency (MHz)	846.599976
Relative permittivity (real part)	41.500000
Conductivity (S/m)	0.912447
Power drift (%)	-1.340000
Ambient Temperature:	22.6°C
Liquid Temperature:	21.2°C
ConvF:	6.13
Crest factor:	1:1



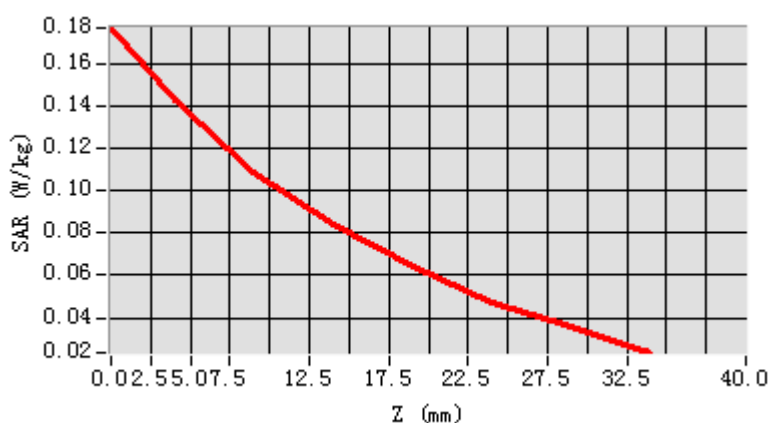
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

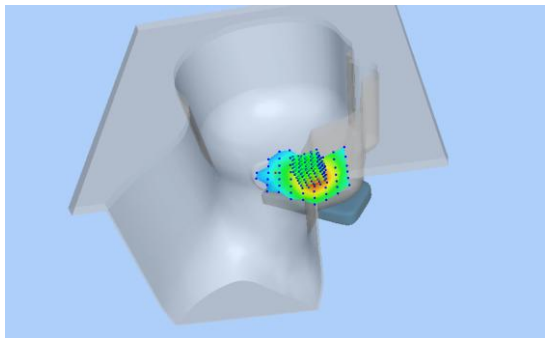
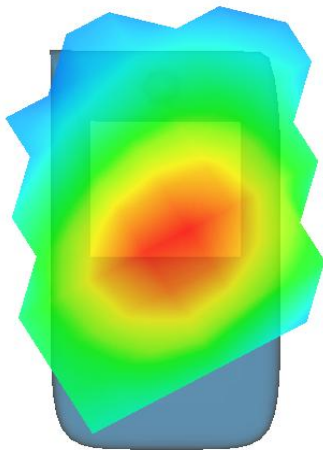
Maximum location: X=-52.00, Y=-25.00

SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.097024
SAR 1g (W/Kg)	0.137917

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1769	0.1433	0.1089	0.0844	0.0639	0.0469	0.0357



3D screen shot	Hot spot position
	

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**MEASUREMENT 6**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.02.01

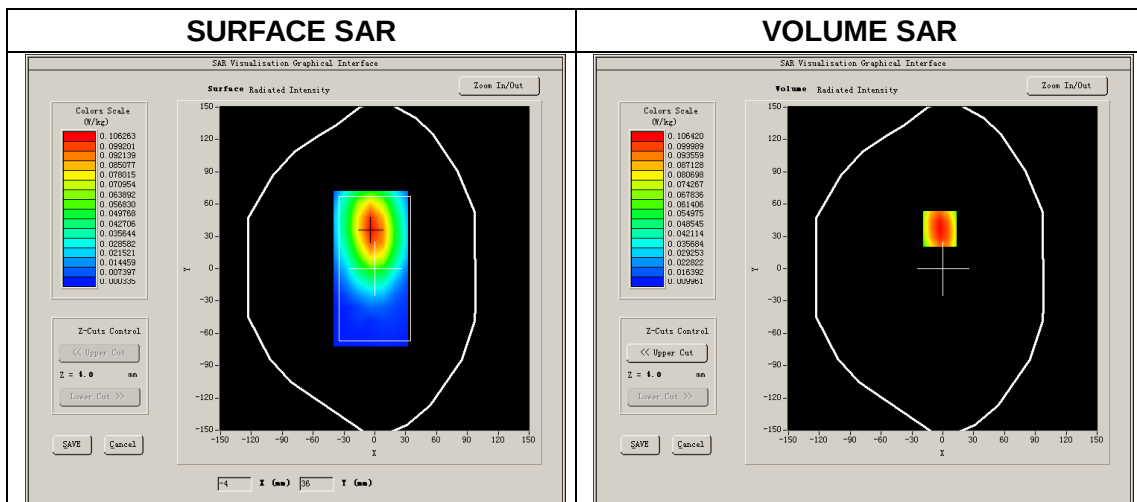
Measurement duration: 16 minutes 51 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Flat</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band5_WCDMA850</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>RMC</u>

B. SAR Measurement ResultsHigher Band SAR (Channel 4233):

Frequency (MHz)	846.599976
Relative permittivity (real part)	55.304307
Conductivity (S/m)	0.934222
Power drift (%)	-0.050000
Ambient Temperature:	22.6°C
Liquid Temperature:	21.2°C
ConvF:	6.37
Crest factor:	1:1



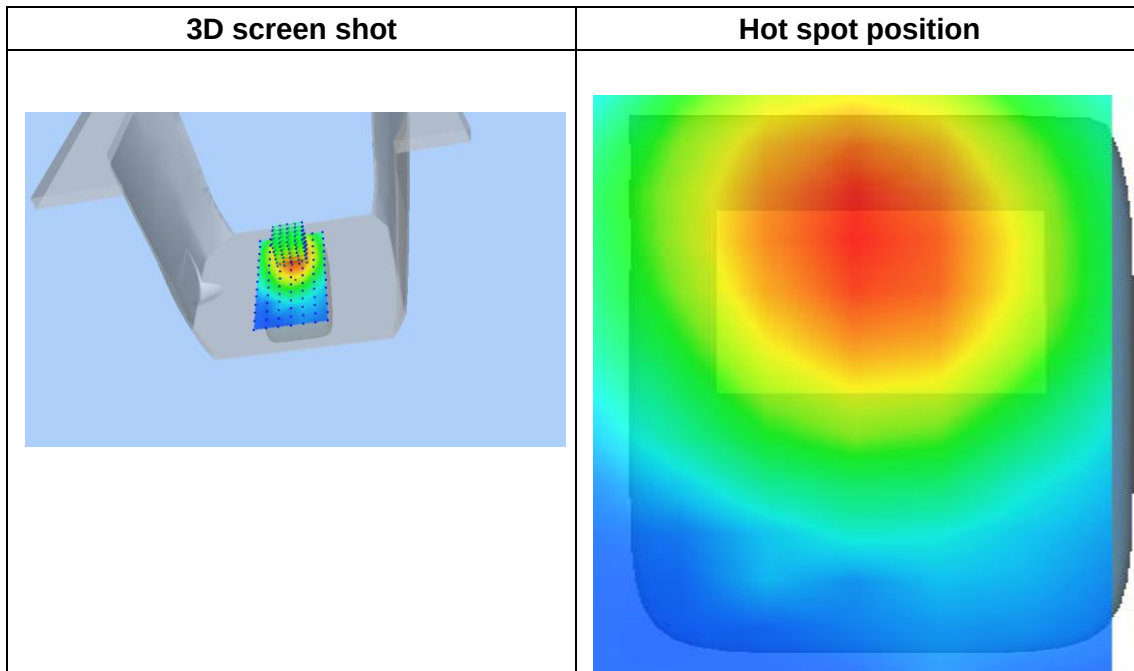
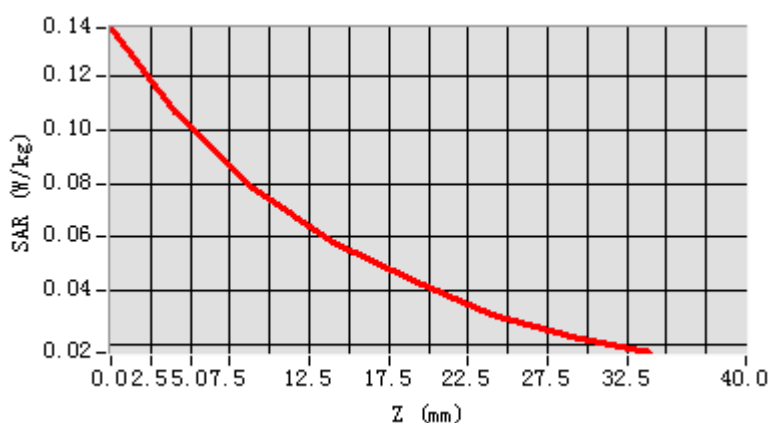
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

Maximum location: X=-3.00, Y=37.00

SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.071454
SAR 1g (W/Kg)	0.102922

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1380	0.1064	0.0782	0.0577	0.0438	0.0310	0.0228



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**MEASUREMENT 7**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2018.02.02

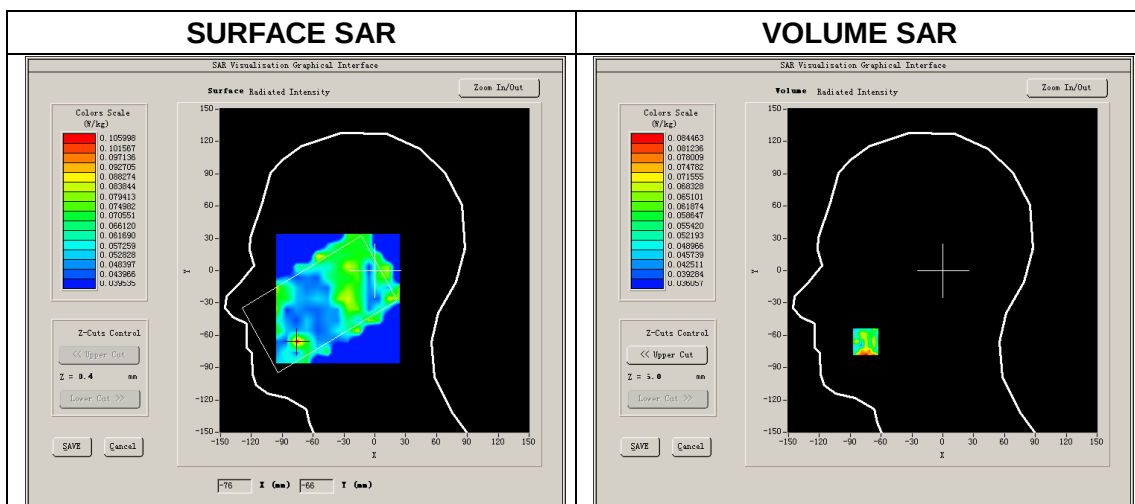
Measurement duration: 22 minutes 14 seconds

A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Right head</u>
Device Position	<u>Cheek</u>
Band	<u>IEEE 802.11a U-NII</u>
Channels	<u>High</u>
Signal	<u>OFDM</u>

B. SAR Measurement ResultsHigher Band SAR (Channel 64):

Frequency (MHz)	5320.000000
Relative permittivity (real part)	35.980001
Conductivity (S/m)	4.779724
Power Drift (%)	2.790000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	21.61
Crest factor:	1:1



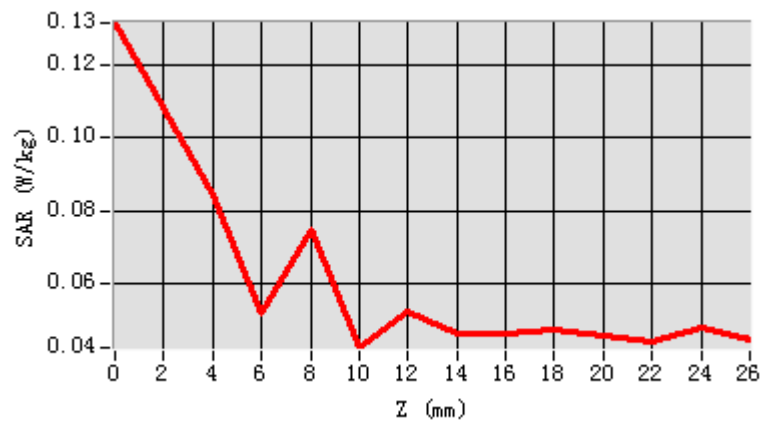
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

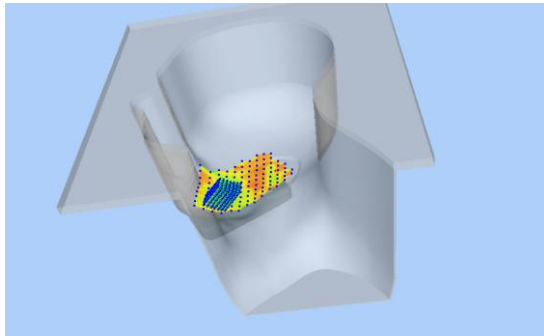
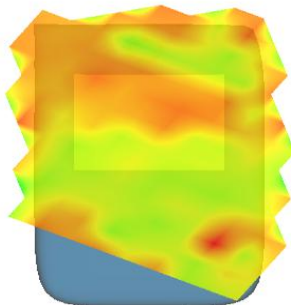
Maximum location: X=-75.00, Y=-66.00

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.057575
SAR 1g (W/Kg)	0.072496

Z (mm)	0.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0
SAR (W/Kg)	0.1315	0.0845	0.0521	0.0751	0.0425	0.0523	0.0463	0.0465	0.0475	0.0459	0.0439	0.0480



3D screen shot	Hot spot position
	

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**MEASUREMENT 8**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2018.02.02

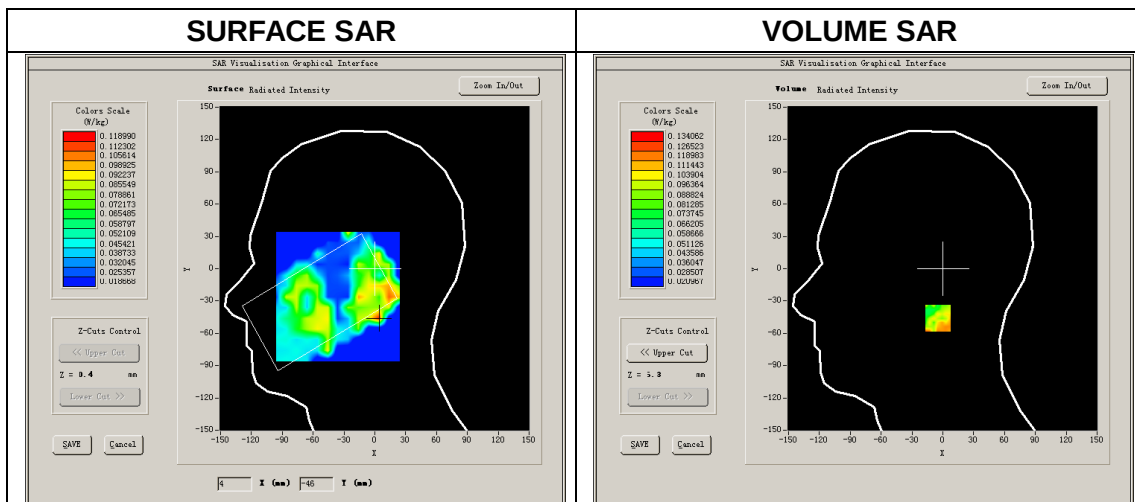
Measurement duration: 21 minutes 58 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>IEEE 802.11a U-NII</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>OFDM</u>

B. SAR Measurement ResultsLower Band SAR (Channel 149):

Frequency (MHz)	5745.000000
Relative permittivity (real part)	35.355000
Conductivity (S/m)	5.216300
Power Drift (%)	-1.580000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	22.42
Crest factor:	1:1



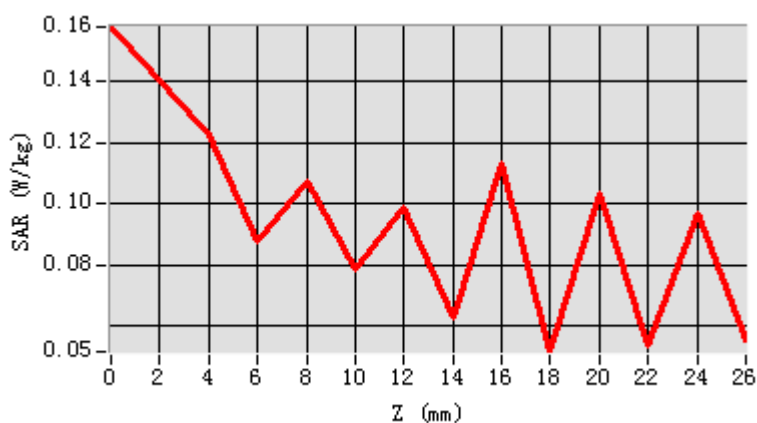
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

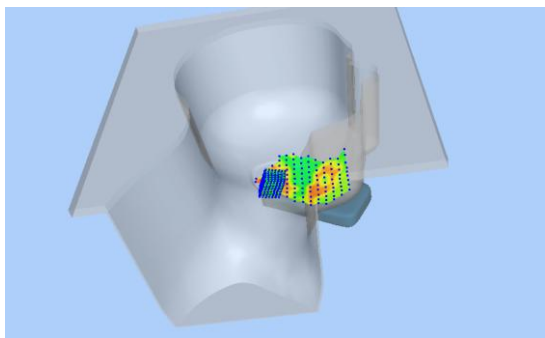
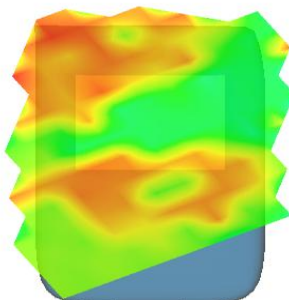
Maximum location: X=6.00, Y=-46.00

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.084791
SAR 1g (W/Kg)	0.098821

Z (mm)	0.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0
					0	0	0	0	0	0	0	0
SAR (W/Kg)	0.1580	0.1223	0.0880	0.1074	0.0788	0.0991	0.0628	0.1133	0.0517	0.1035	0.0537	0.0972



3D screen shot	Hot spot position
	

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**MEASUREMENT 9**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2018.02.02

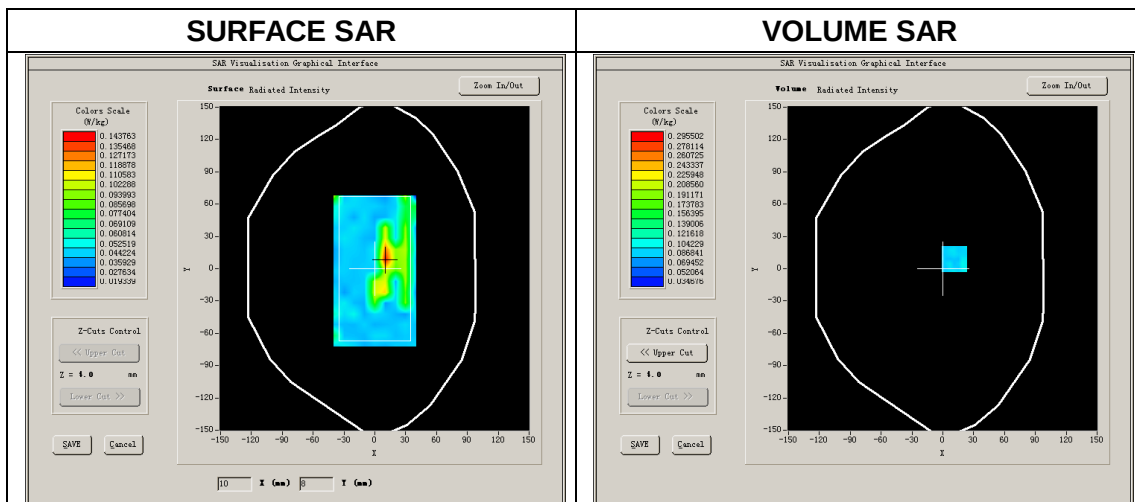
Measurement duration: 23 minutes 14 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Flat</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>IEEE 802.11a U-NII</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>OFDM</u>

B. SAR Measurement ResultsLower Band SAR (Channel 149):

Frequency (MHz)	5745.000000
Relative permittivity (real part)	48.155000
Conductivity (S/m)	5.716300
Power Drift (%)	1.240000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	23.02
Crest factor:	1:1



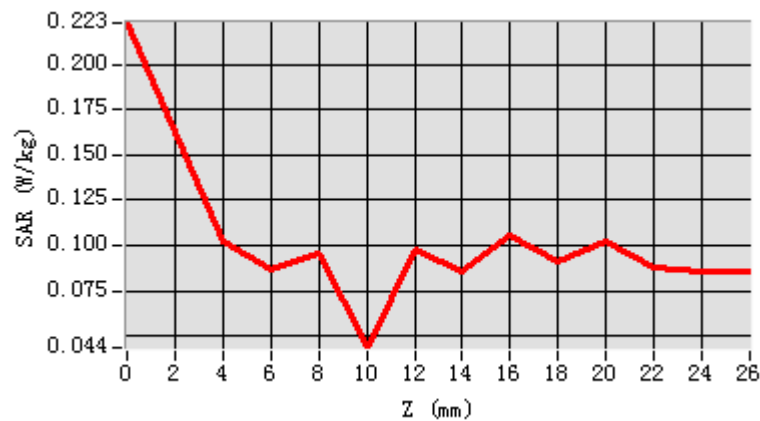
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

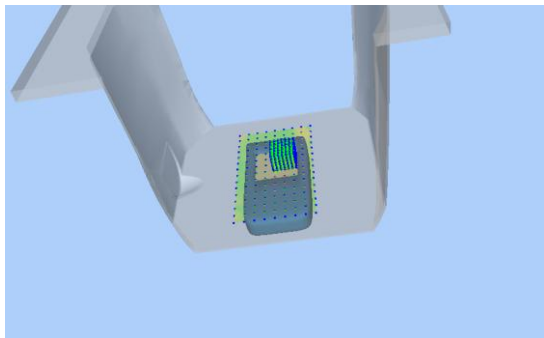
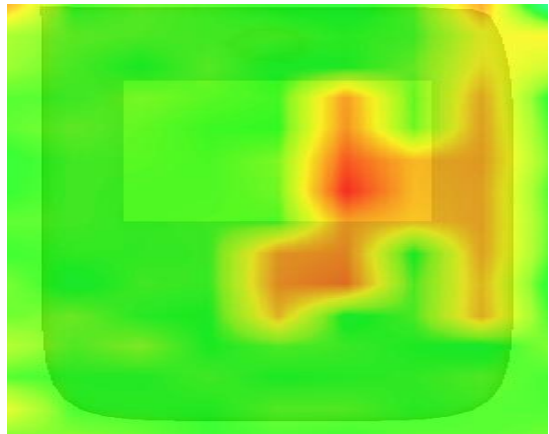
Maximum location: X=11.00, Y=9.00

SAR Peak: 0.31 W/kg

SAR 10g (W/Kg)	0.103808
SAR 1g (W/Kg)	0.129543

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	0.2227	0.1019	0.0870	0.0956	0.0438	0.0981	0.0857	0.1060	0.0918	0.1020	0.0885	0.0855



3D screen shot	Hot spot position
	

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**MEASUREMENT 10**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2018.02.02

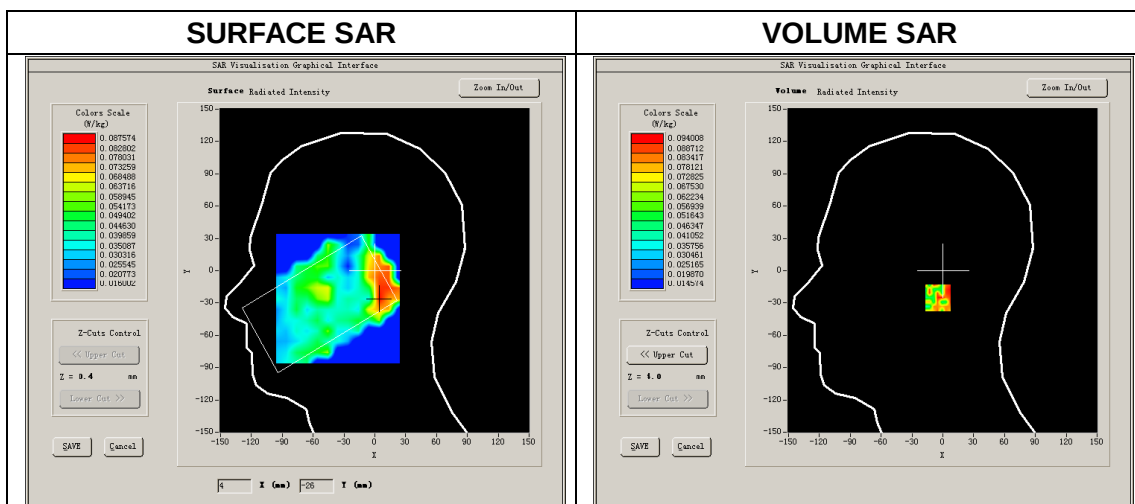
Measurement duration: 17 minutes 27 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>IEEE 802.11a U-NII</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>DSSS</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 120):

Frequency (MHz)	5600.000000
Relative permittivity (real part)	35.562139
Conductivity (S/m)	5.100255
Power Drift (%)	-1.230000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	22.42
Crest factor:	1:1



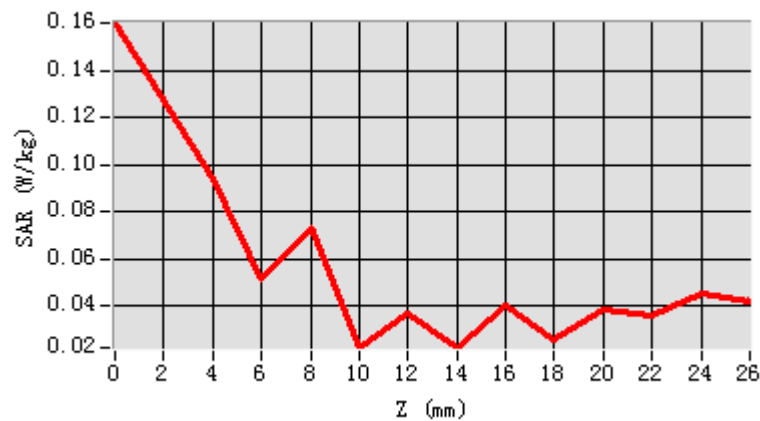
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

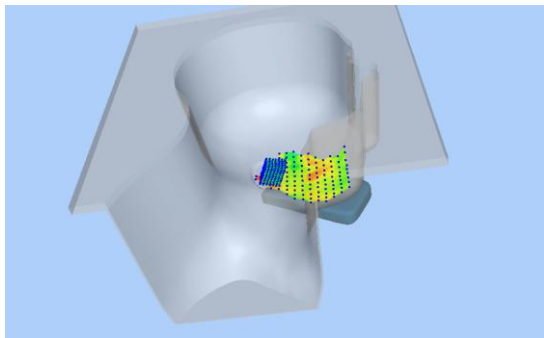
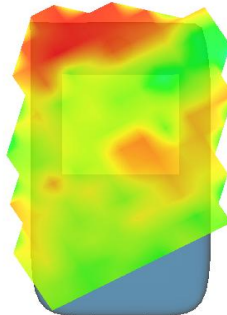
Maximum location: X=6.00, Y=-25.00

SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.046597
SAR 1g (W/Kg)	0.074252

Z (mm)	0.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0
SAR (W/Kg)	0.1603	0.0940	0.0518	0.0740	0.0225	0.0367	0.0229	0.0407	0.0259	0.0389	0.0365	0.0452



3D screen shot	Hot spot position
	

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**MEASUREMENT 11**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2018.02.02

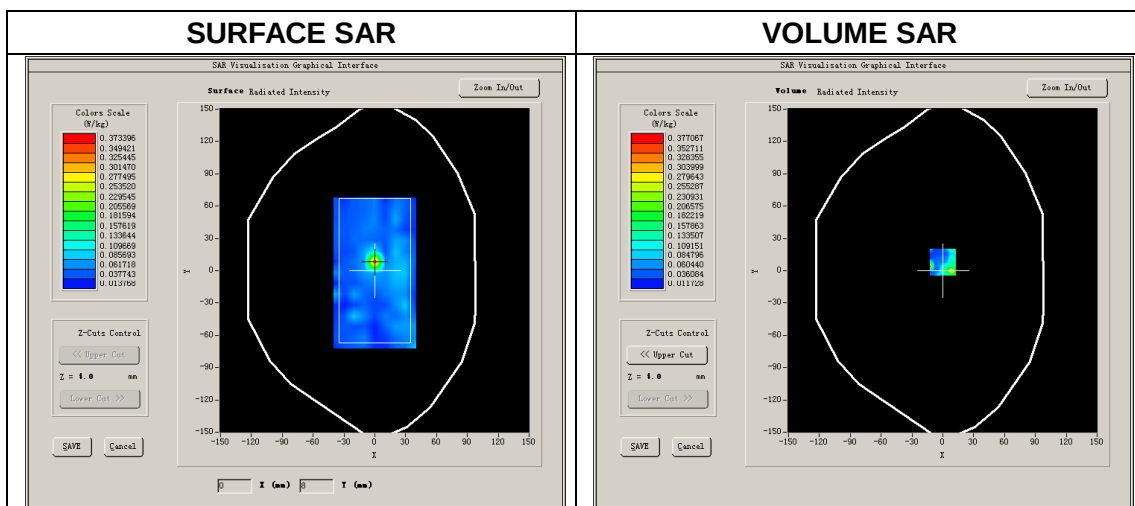
Measurement duration: 17 minutes 14 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Flat</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>IEEE 802.11a U-NII</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>DSSS</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 120):

Frequency (MHz)	5600.000000
Relative permittivity (real part)	48.394381
Conductivity (S/m)	5.7432600
Power Drift (%)	-1.770000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	23.02
Crest factor:	1:1



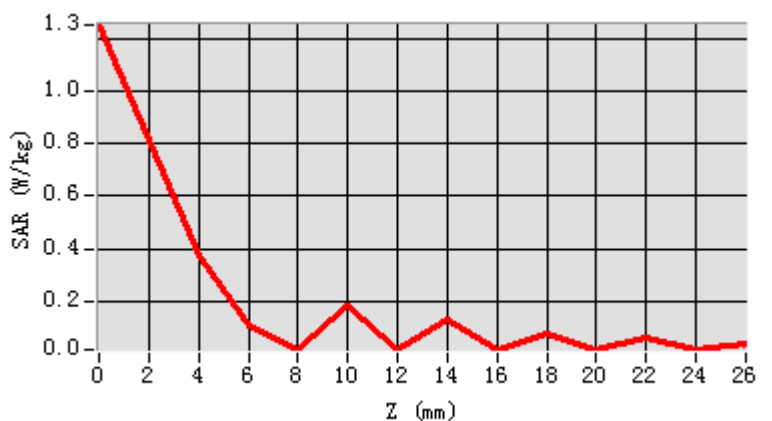
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

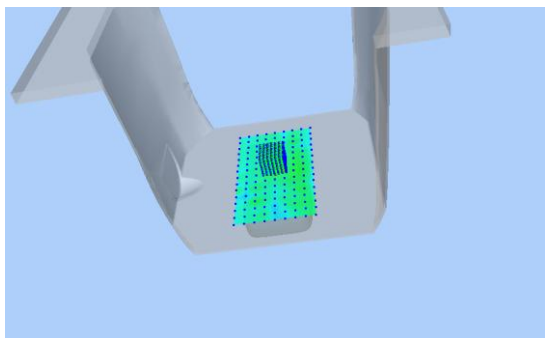
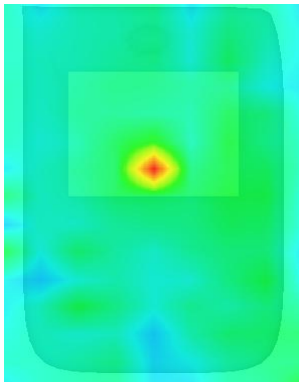
Maximum location: X=0.00, Y=8.00

SAR Peak: 1.38 W/kg

SAR 10g (W/Kg)	0.087254
SAR 1g (W/Kg)	0.138741

Z (mm)	0.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0
SAR (W/Kg)	1.2555	0.3771	0.1066	0.0164	0.1784	0.0152	0.1262	0.0127	0.0737	0.0127	0.0598	0.0164



3D screen shot	Hot spot position
	

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**MEASUREMENT 12**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.02.02

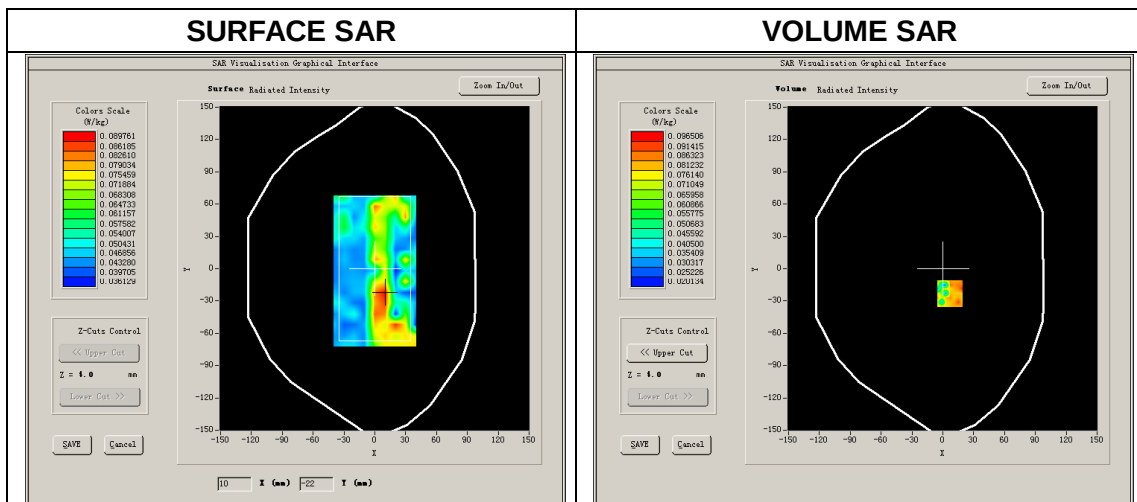
Measurement duration: 23 minutes 14 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Flat</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>IEEE 802.11a U-NII</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>OFDM</u>

B. SAR Measurement ResultsHigher Band SAR (Channel 64):

Frequency (MHz)	5320.000000
Relative permittivity (real part)	48.080001
Conductivity (S/m)	5.489724
Power Drift (%)	-4.380000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.1°C
ConvF:	22.11
Crest factor:	1:1



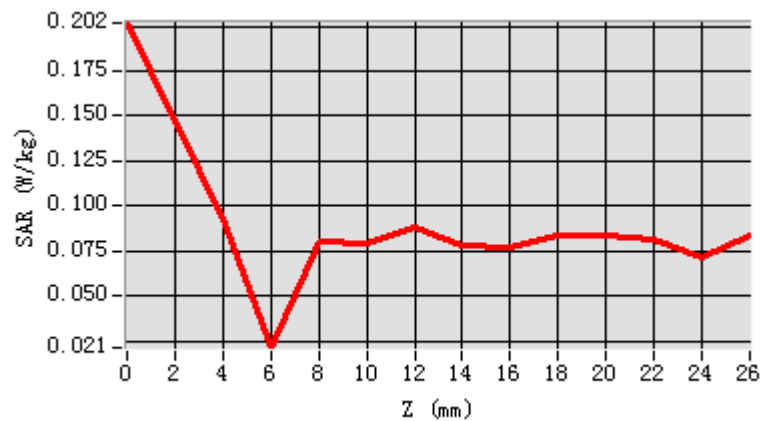
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

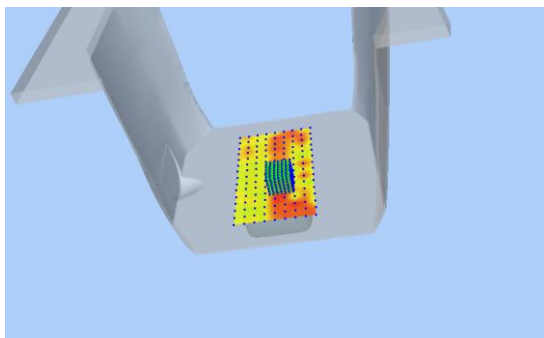
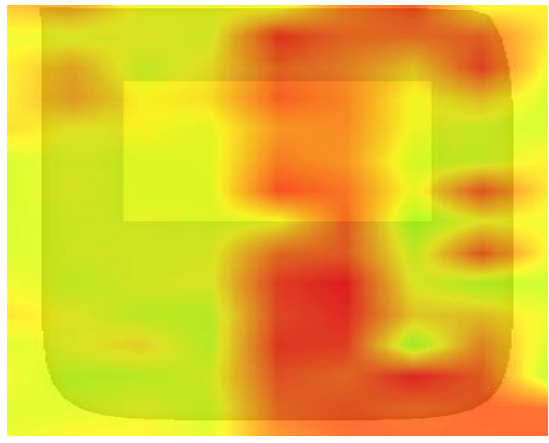
Maximum location: X=7.00, Y=-23.00

SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.085795
SAR 1g (W/Kg)	0.1293608

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	0.2018	0.0925	0.0213	0.0803	0.0798	0.0880	0.0777	0.0774	0.0838	0.0832	0.0816	0.0714



3D screen shot	Hot spot position
	

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**MEASUREMENT 13**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.02.06

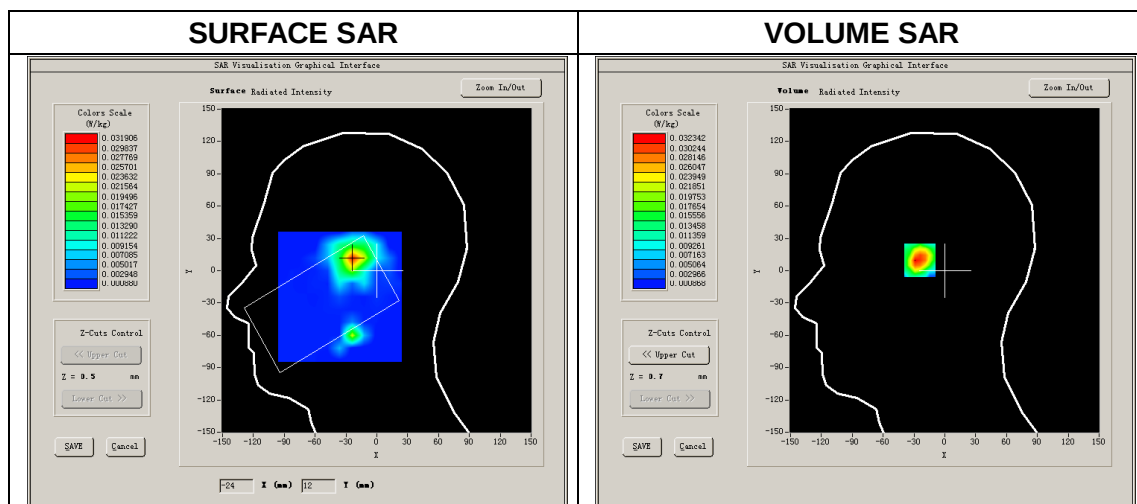
Measurement duration: 16 minutes 16 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>IEEE 802.11n-HT20</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>DSSS</u>

B. SAR Measurement ResultsHigher Band SAR (Channel 11):

Frequency (MHz)	2462.000000
Relative permittivity (real part)	39.084927
Conductivity (S/m)	1.886143
Power Drift (%)	0.370001
Ambient Temperature:	22.0°C
Liquid Temperature:	21.8°C
ConvF:	4.74
Crest factor:	1:1



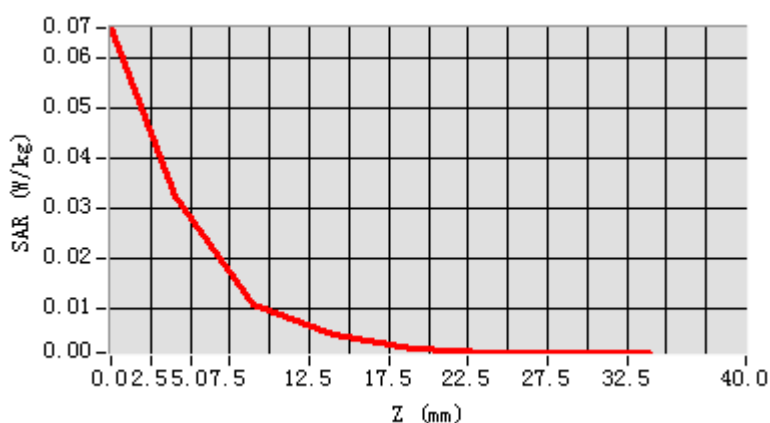
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

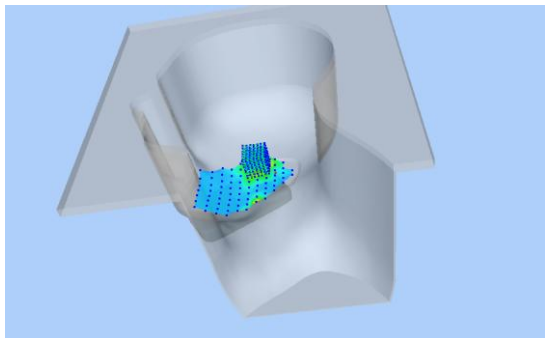
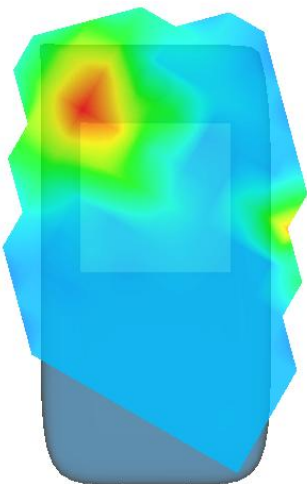
Maximum location: X=-23.00, Y=11.00

SAR Peak: 0.06 W/kg

SAR 10g (W/Kg)	0.012203
SAR 1g (W/Kg)	0.029303

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0659	0.0323	0.0106	0.0045	0.0016	0.0010	0.0010



3D screen shot	Hot spot position
	

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**MEASUREMENT 14**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.02.08

Measurement duration: 16 minutes 45 seconds

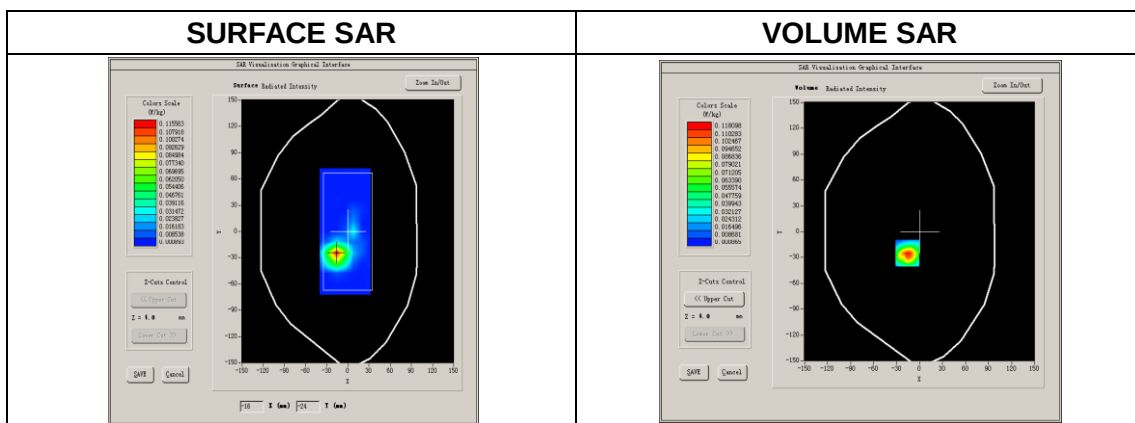
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Flat</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>IEEE 802.11n-HT20</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>DSSS</u>

B. SAR Measurement Results

Higher Band SAR (Channel 11):

Frequency (MHz)	2462.000000
Relative permittivity (real part)	52.684727
Conductivity (S/m)	1.996143
Power Drift (%)	-4.830000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.8°C
ConvF:	4.93
Crest factor:	1:1



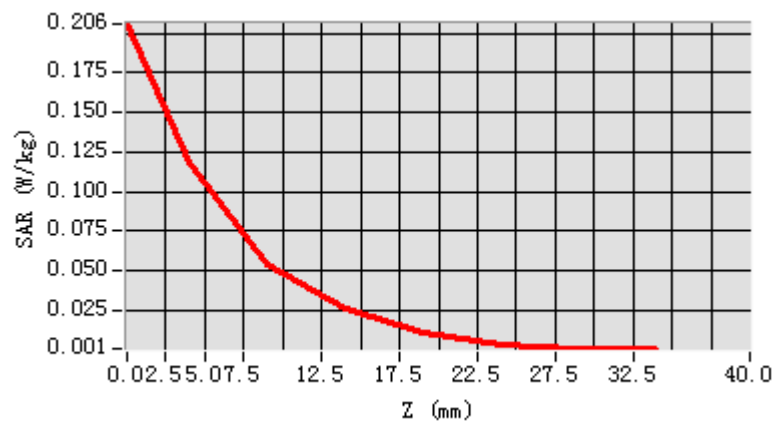
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

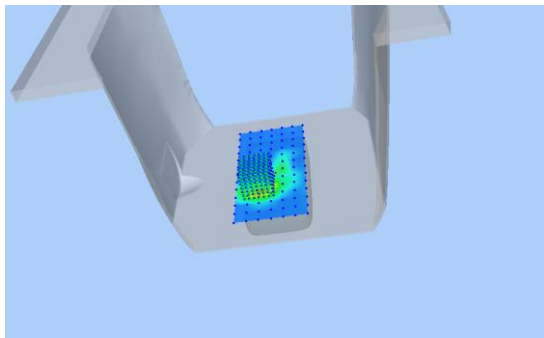
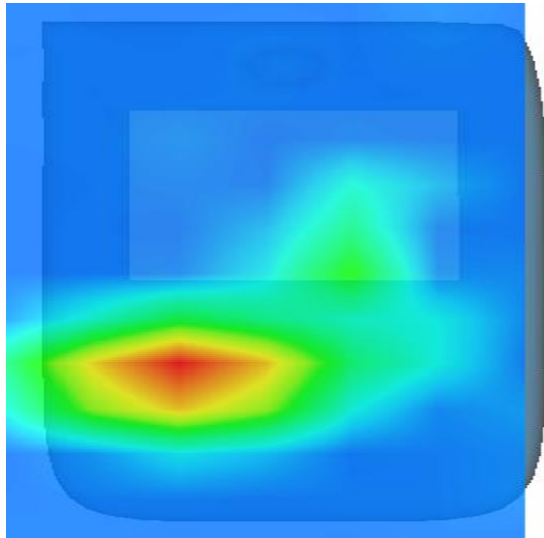
Maximum location: X=-16.00, Y=-25.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.044518
SAR 1g (W/Kg)	0.105513

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2058	0.1181	0.0540	0.0266	0.0109	0.0030	0.0011



3D screen shot	Hot spot position
	

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**MEASUREMENT 15**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.01.17

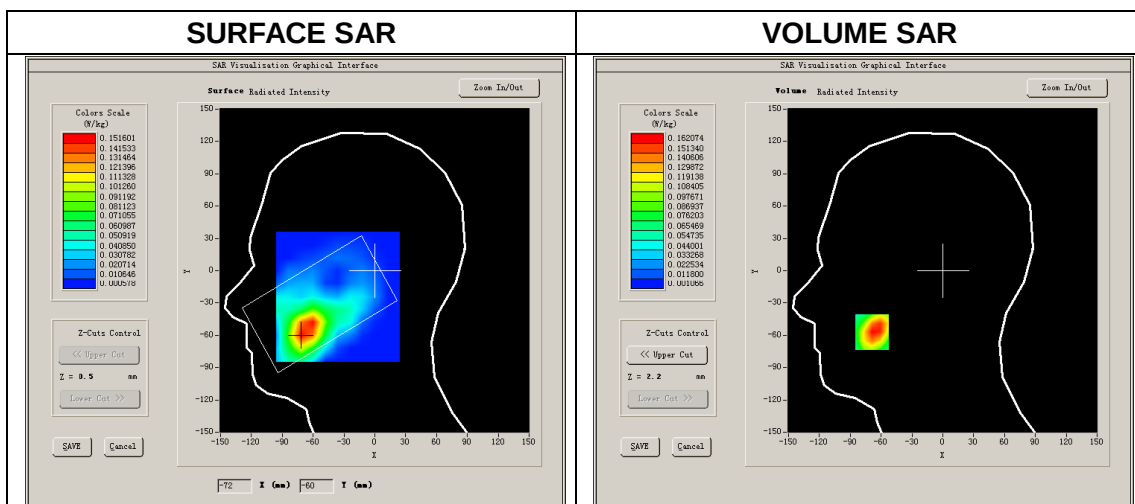
Measurement duration: 16 minutes 37 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsLower Band SAR (Channel 18700):

Frequency (MHz)	1860.000000
Relative permittivity (real part)	40.299999
Conductivity (S/m)	1.401102
Power drift (%)	-2.330000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.4°C
ConvF:	5.61
Duty cycle:	1:1



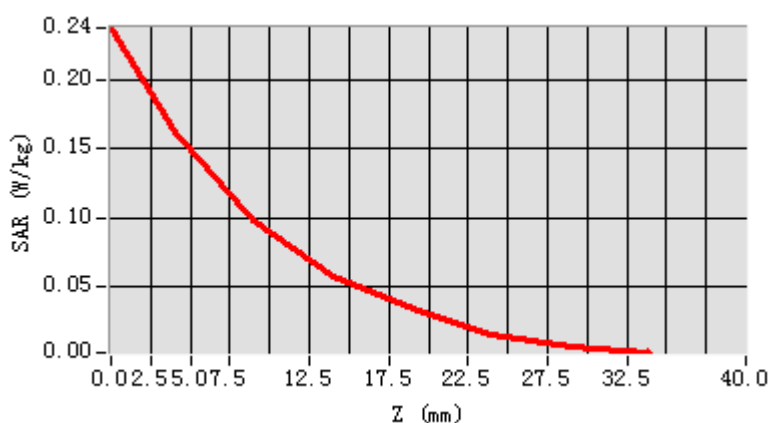
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

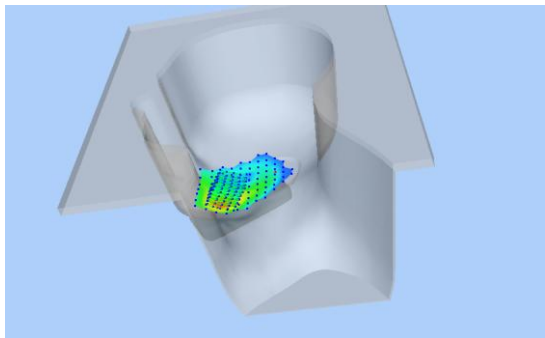
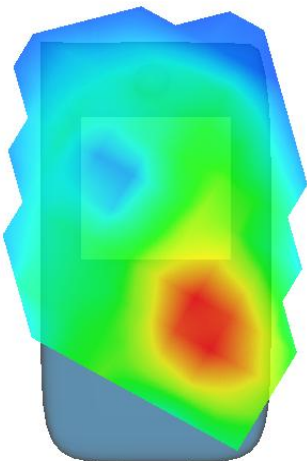
Maximum location: X=-69.00, Y=-57.00

SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.085821
SAR 1g (W/Kg)	0.157897

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2377	0.1621	0.0983	0.0582	0.0342	0.0156	0.0074



3D screen shot	Hot spot position
	

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**MEASUREMENT 16**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.01.22

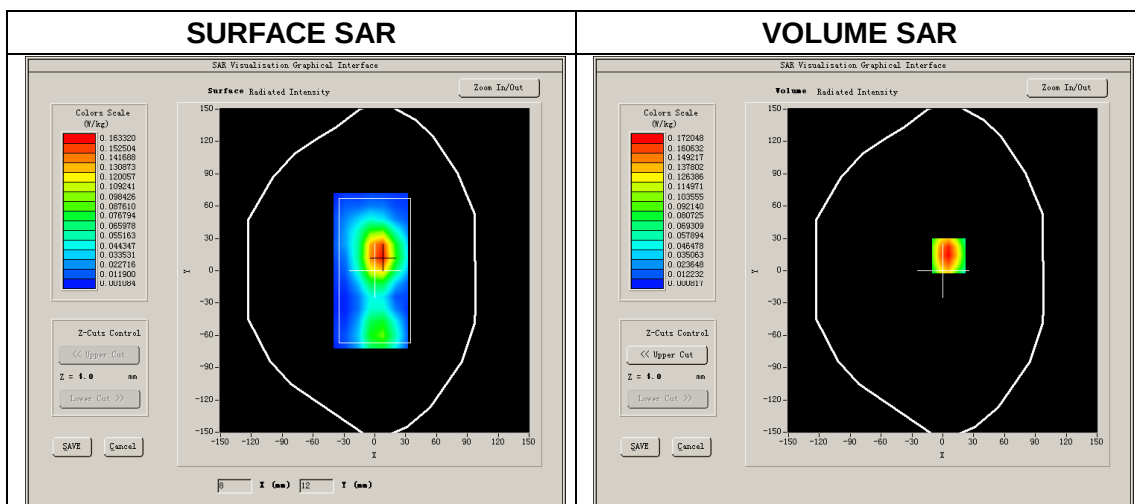
Measurement duration: 16 minutes 52 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Flat</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsLower Band SAR (Channel 18700):

	1860.000000
Relative permittivity (real part)	53.399680
Conductivity (S/m)	1.501271
Power drift (%)	2.430000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.4°C
ConvF:	5.71
Duty cycle:	1:1



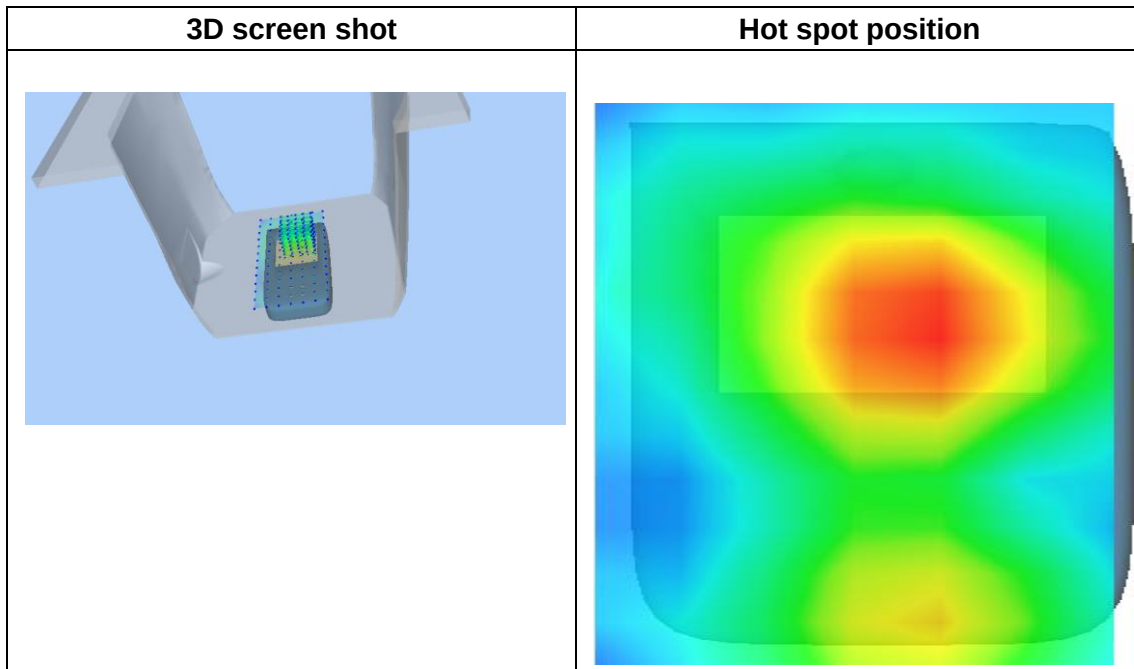
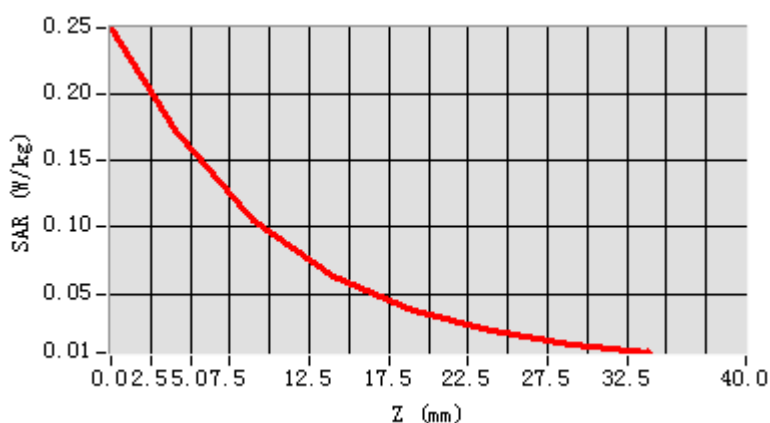
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

Maximum location: X=6.00, Y=14.00

SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.132848
SAR 1g (W/Kg)	0.286430

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2494	0.1720	0.1054	0.0634	0.0374	0.0224	0.0123



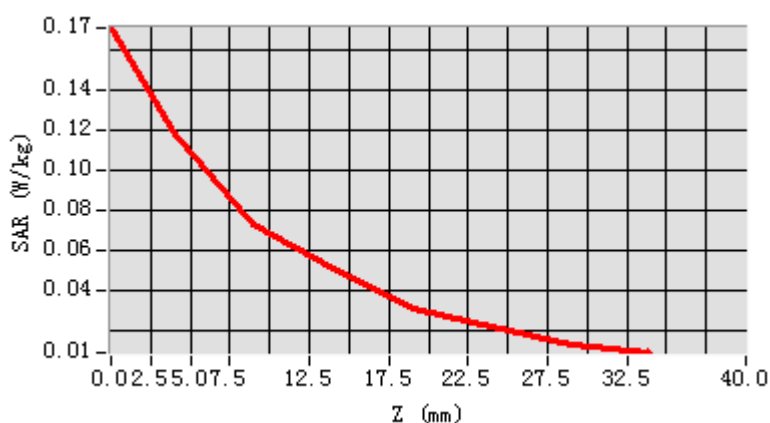
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

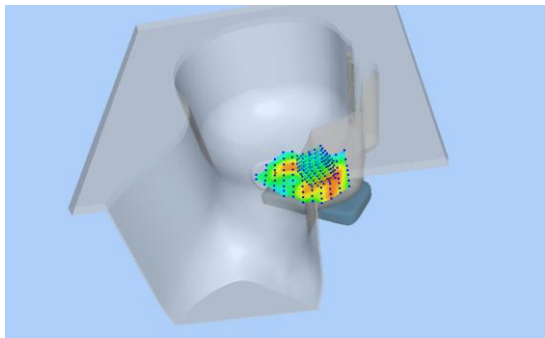
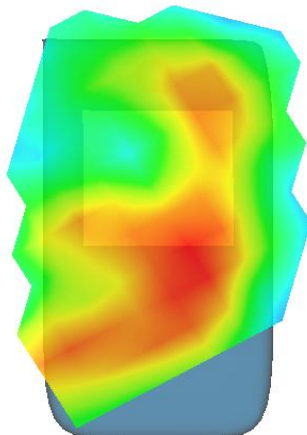
Maximum location: X=-64.00, Y=-25.00

SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.068807
SAR 1g (W/Kg)	0.113591

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1709	0.1175	0.0730	0.0510	0.0304	0.0214	0.0127



3D screen shot	Hot spot position
	

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**MEASUREMENT 18**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.02.02

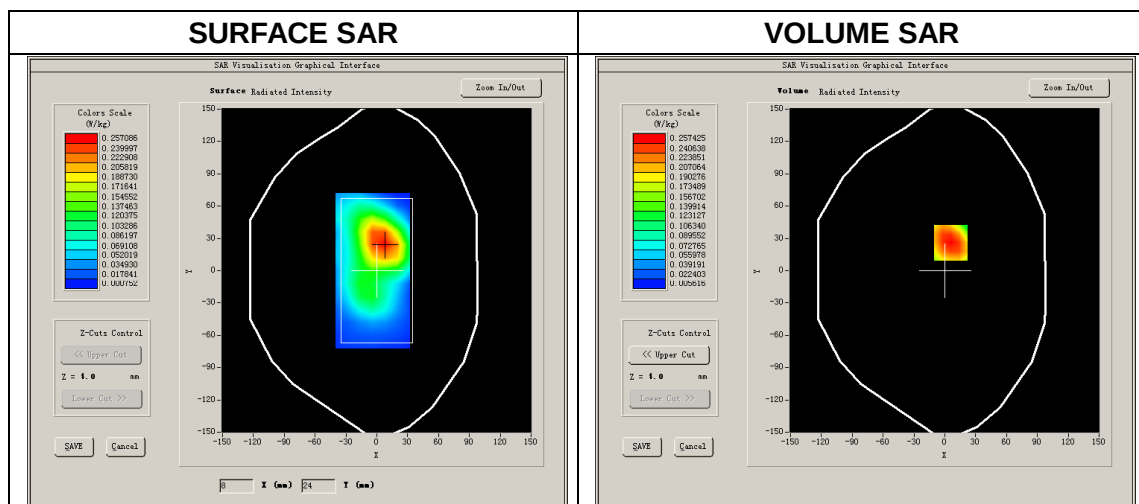
Measurement duration: 15 minutes 51 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Flat</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 4</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsLower Band SAR (Channel 20050):

Frequency (MHz)	1719.500000
Relative permittivity (real part)	53.538841
Conductivity (S/m)	1.460235
Power drift (%)	2.210000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.38
Crest factor:	1:1



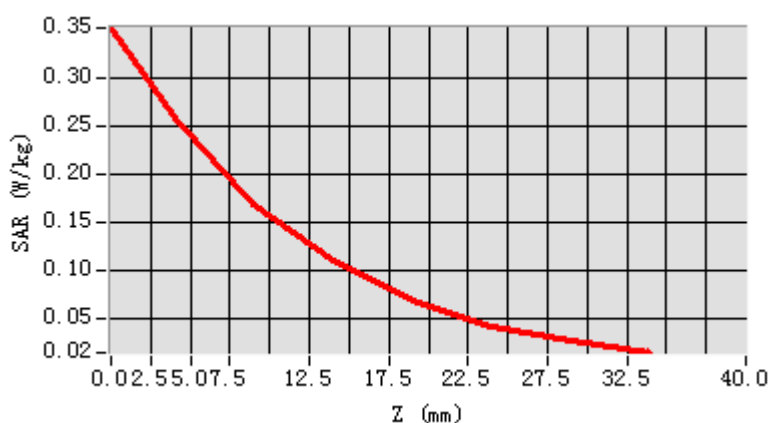
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

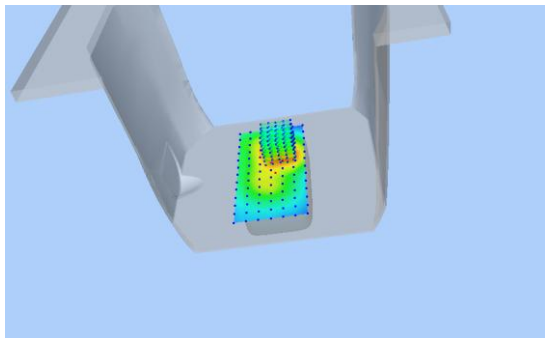
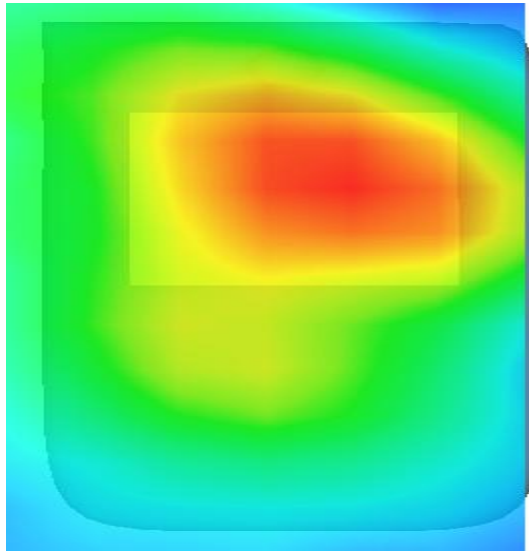
Maximum location: X=6.00, Y=26.00

SAR Peak: 0.36 W/kg

SAR 10g (W/Kg)	0.153010
SAR 1g (W/Kg)	0.245913

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3508	0.2574	0.1691	0.1114	0.0687	0.0427	0.0274



3D screen shot	Hot spot position
	

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**MEASUREMENT 19**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.01.17

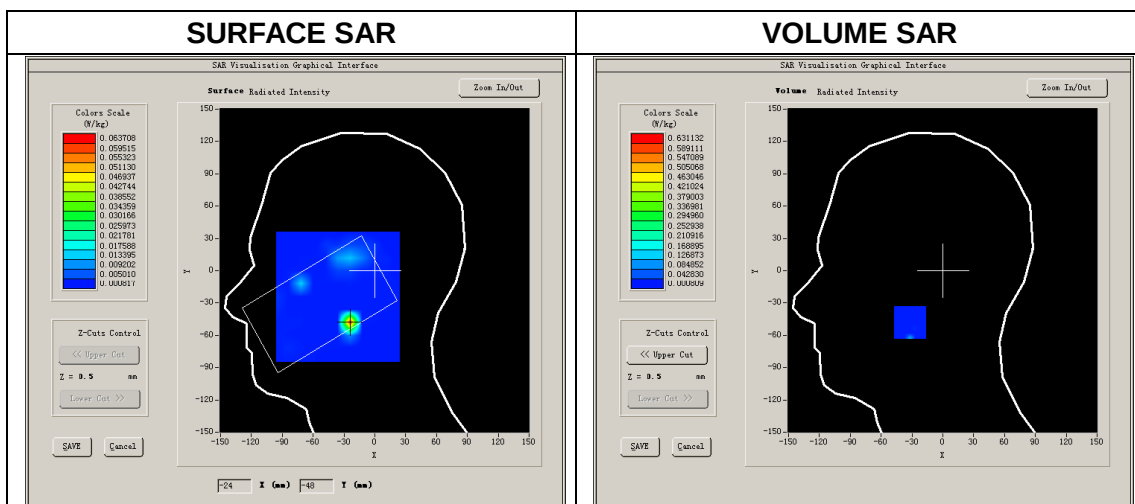
Measurement duration: 16 minutes 7 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsHigher Band SAR (Channel 21400):

Frequency (MHz)	2565.000000
Relative permittivity (real part)	39.306665
Conductivity (S/m)	1.912087
Power Drift (%)	-1.930000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.8°C
ConvF:	4.74
Crest factor:	1:1



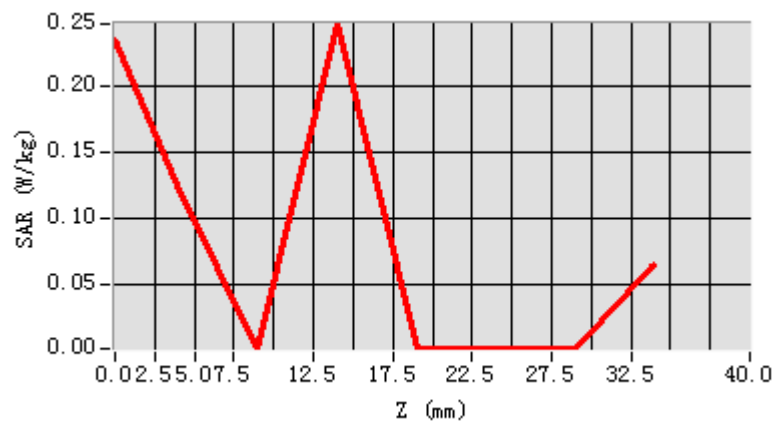
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

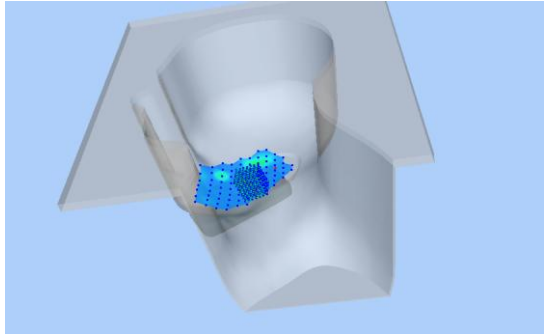
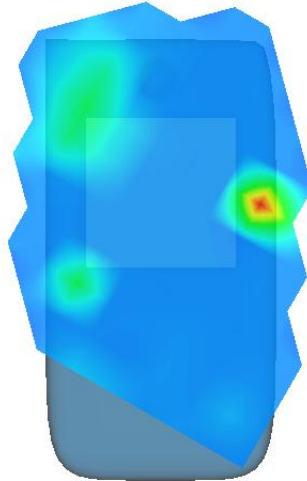
Maximum location: X=-24.00, Y=-48.00

SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.018032
SAR 1g (W/Kg)	0.032633

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2354	0.1211	0.0009	0.2479	0.0010	0.0010	0.0010



3D screen shot	Hot spot position
	

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**MEASUREMENT 20**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.01.22

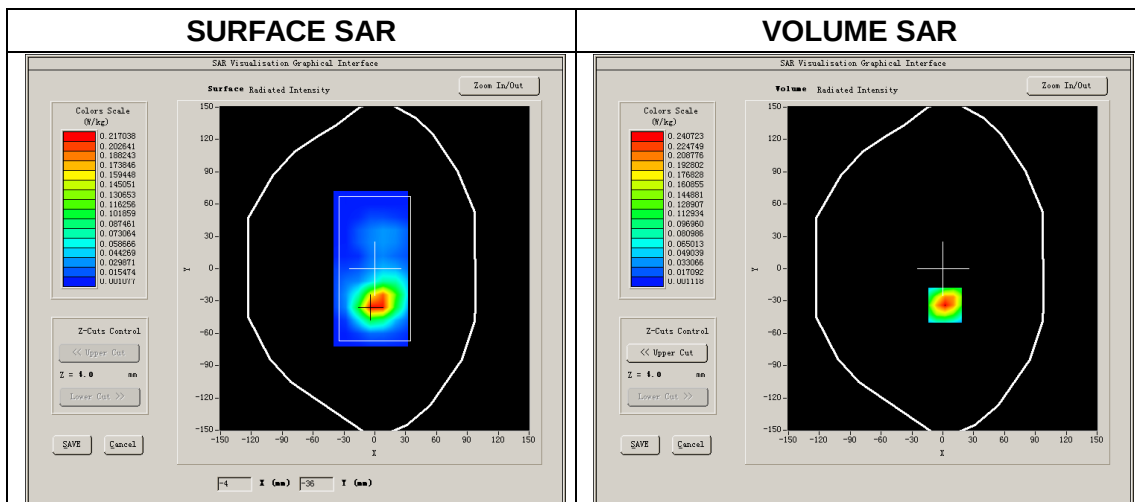
Measurement duration: 16 minutes 12 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Flat</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsHigher Band SAR (Channel 21400):

Frequency (MHz)	2565.000000
Relative permittivity (real part)	52.589635
Conductivity (S/m)	2.093106
Power Drift (%)	-2.380000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.8°C
ConvF:	4.93
Crest factor:	1:1



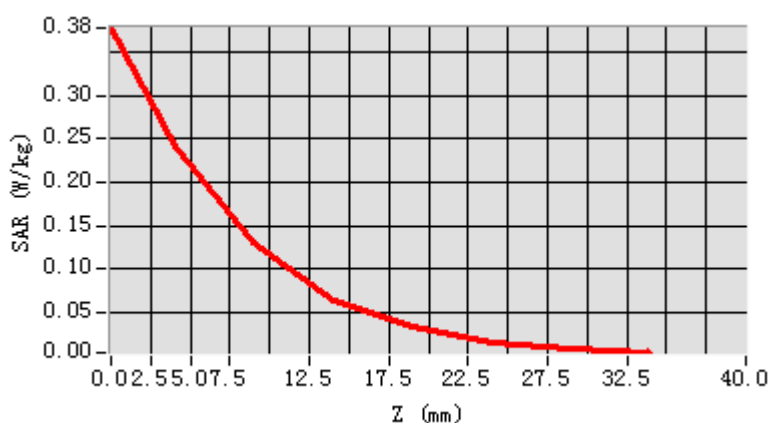
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

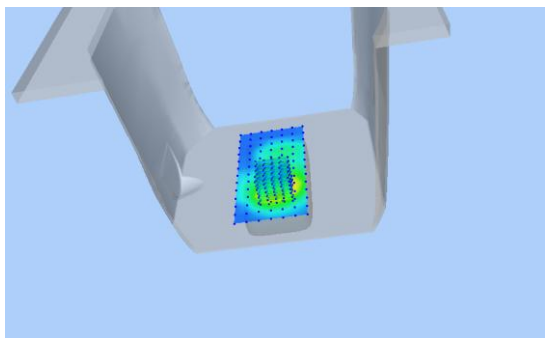
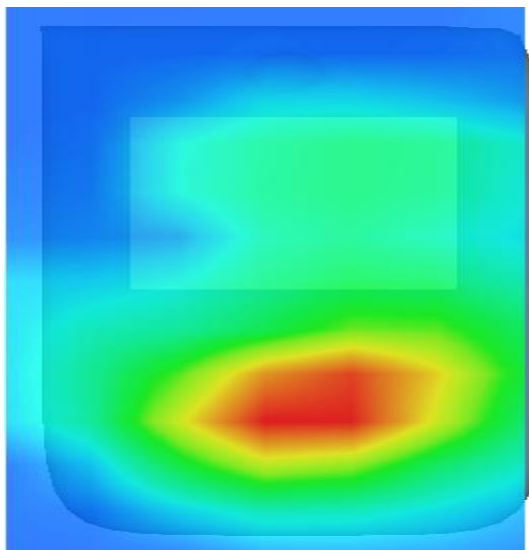
Maximum location: X=2.00, Y=-34.00

SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.108430
SAR 1g (W/Kg)	0.224854

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3782	0.2407	0.1304	0.0635	0.0341	0.0144	0.0082



3D screen shot	Hot spot position
	

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**MEASUREMENT 21**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.01.12

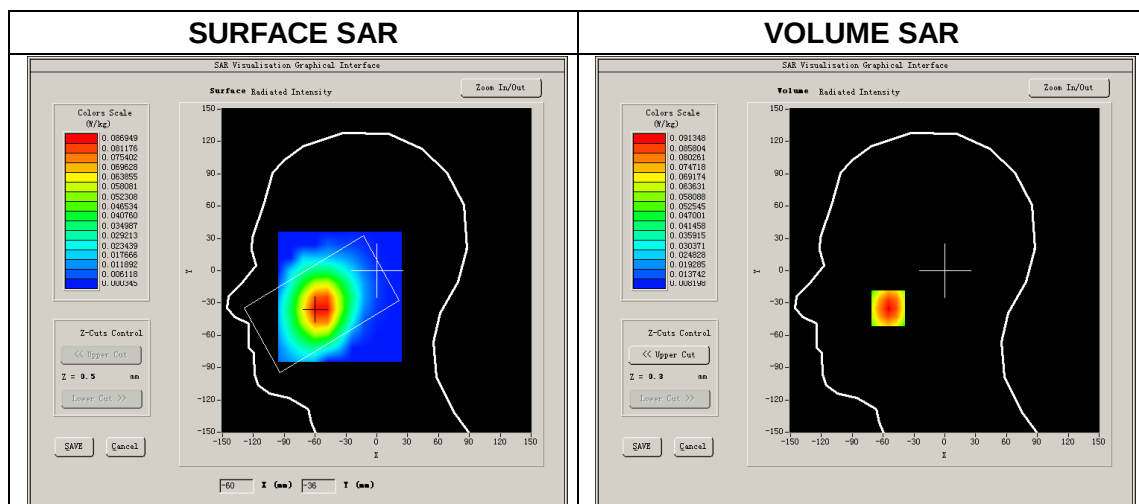
Measurement duration: 15 minutes 24 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 12</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsLower Band SAR (Channel 23060):

Frequency (MHz)	703.500000
Relative permittivity (real part)	41.589999
Conductivity (S/m)	0.986238
Power drift (%)	1.390000
Ambient Temperature:	22.6°C
Liquid Temperature:	21.2°C
ConvF:	6.44
Crest factor:	1:1



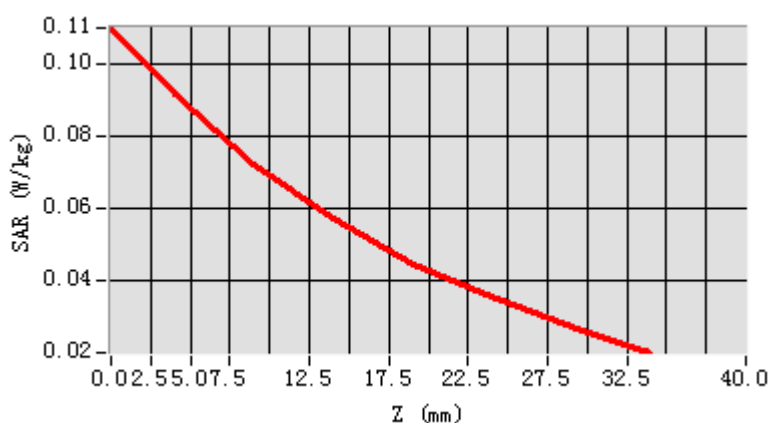
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

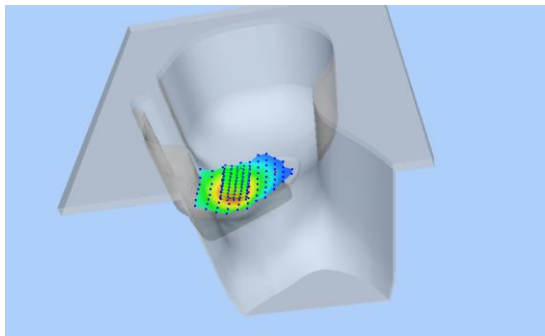
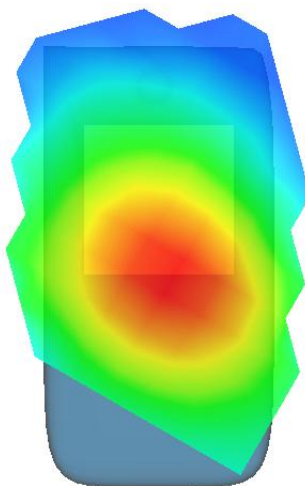
Maximum location: X=-55.00, Y=-35.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.065115
SAR 1g (W/Kg)	0.089689

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1098	0.0913	0.0720	0.0568	0.0445	0.0355	0.0273



3D screen shot	Hot spot position
	

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**MEASUREMENT 22**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.01.12

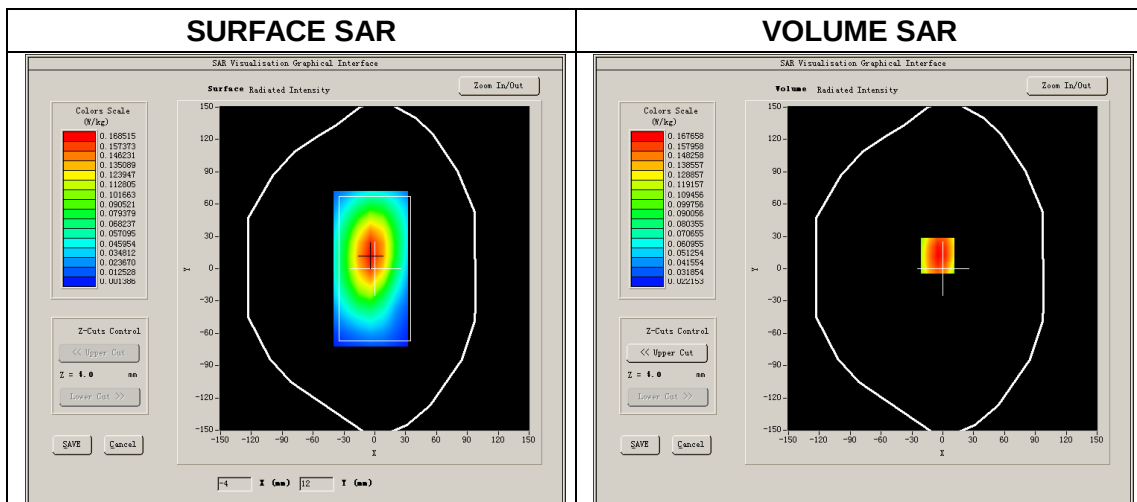
Measurement duration: 16 minutes 2 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Flat</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 12</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsLower Band SAR (Channel 23060):

Frequency (MHz)	703.500000
Relative permittivity (real part)	53.712337
Conductivity (S/m)	0.999031
Power drift (%)	0.300000
Ambient Temperature:	22.6°C
Liquid Temperature:	21.2°C
ConvF:	6.68
Crest factor:	1:1



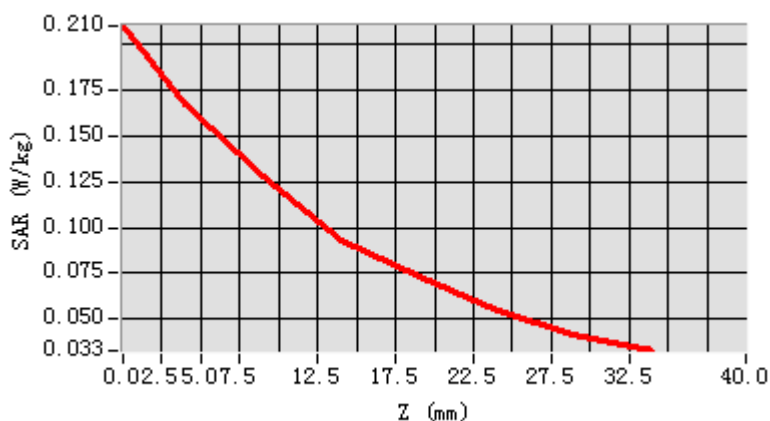
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

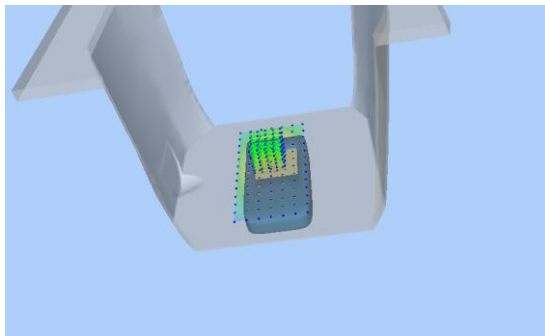
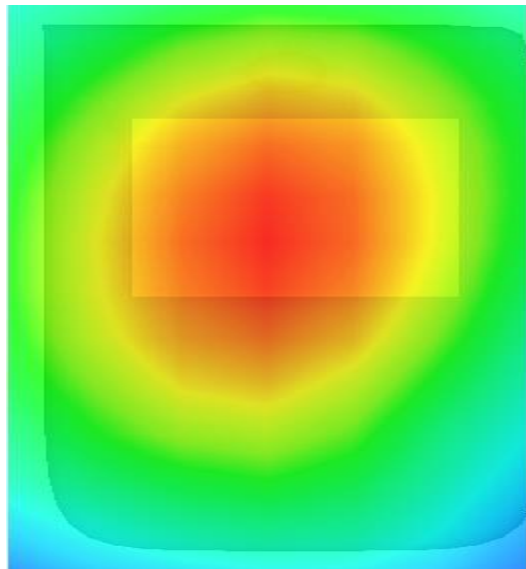
Maximum location: X=-5.00, Y=12.00

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.121330
SAR 1g (W/Kg)	0.172213

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2100	0.1677	0.1279	0.0928	0.0732	0.0547	0.0414



3D screen shot	Hot spot position
	

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**MEASUREMENT 23**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.01.12

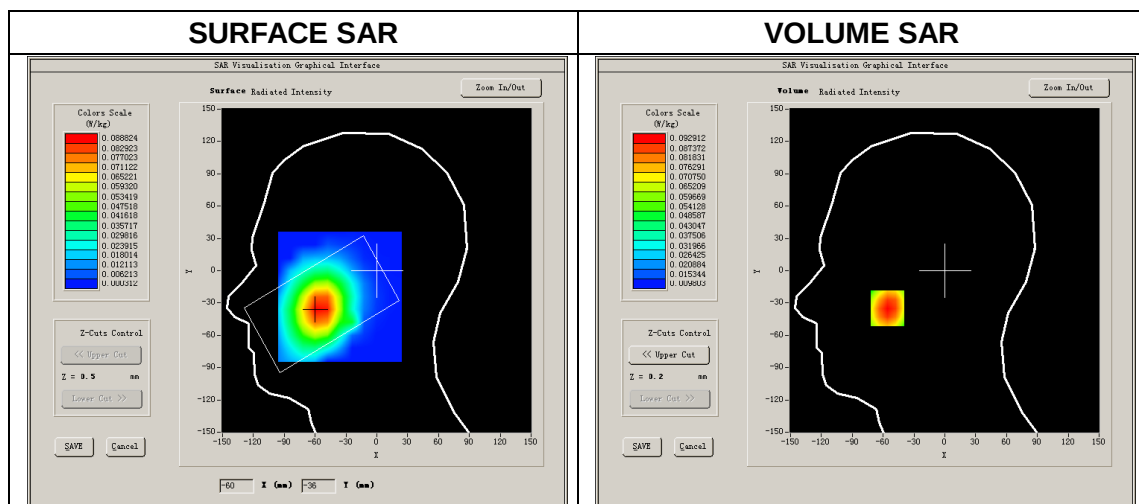
Measurement duration: 15 minutes 55 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 17</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsLower Band SAR (Channel 23780):

Frequency (MHz)	709.000000
Relative permittivity (real part)	41.579168
Conductivity (S/m)	0.990696
Power drift (%)	0.310000
Ambient Temperature:	22.6°C
Liquid Temperature:	21.2°C
ConvF:	6.44
Crest factor:	1:1



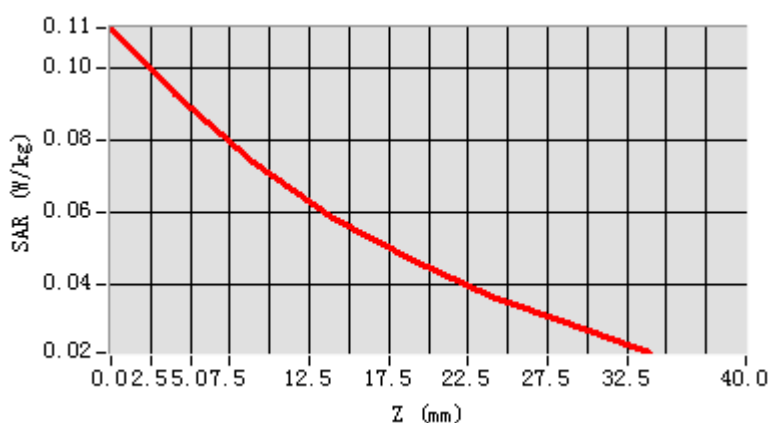
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

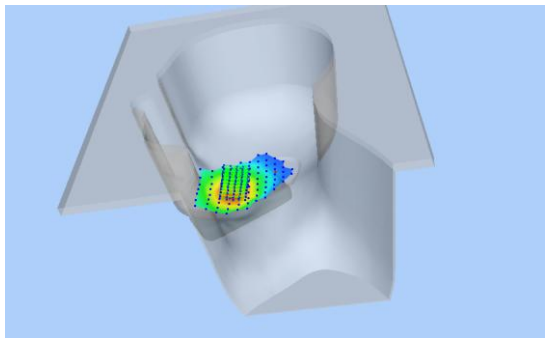
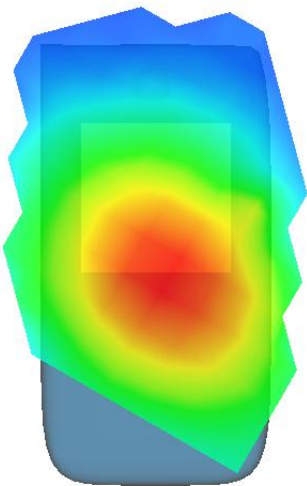
Maximum location: X=-56.00, Y=-35.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.066885
SAR 1g (W/Kg)	0.091108

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1110	0.0929	0.0737	0.0585	0.0467	0.0365	0.0291



3D screen shot	Hot spot position
	

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**MEASUREMENT 24**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.01.12

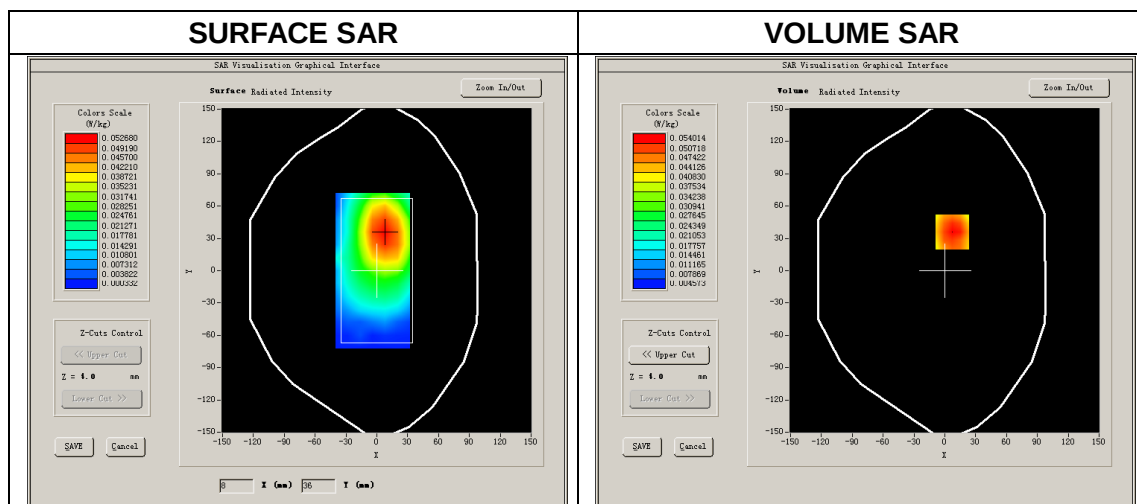
Measurement duration: 15 minutes 54 seconds

A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Flat</u>
Device Position	<u>Body</u>
Band	<u>LTE band 17</u>
Channels	<u>Middle</u>
Signal	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 23790):

Frequency (MHz)	710.000000
Relative permittivity (real part)	53.688012
Conductivity (S/m)	1.028526
Power drift (%)	1.050000
Ambient Temperature:	22.6°C
Liquid Temperature:	21.2°C
ConvF:	6.68
Crest factor:	1:1



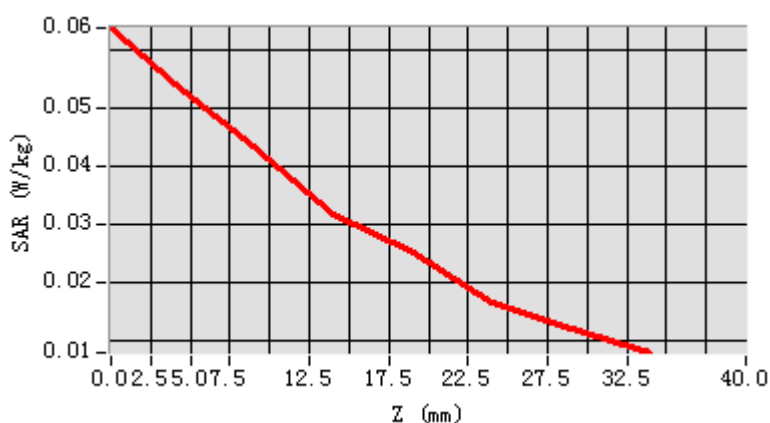
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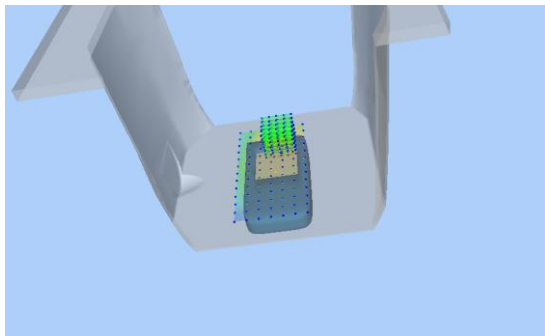
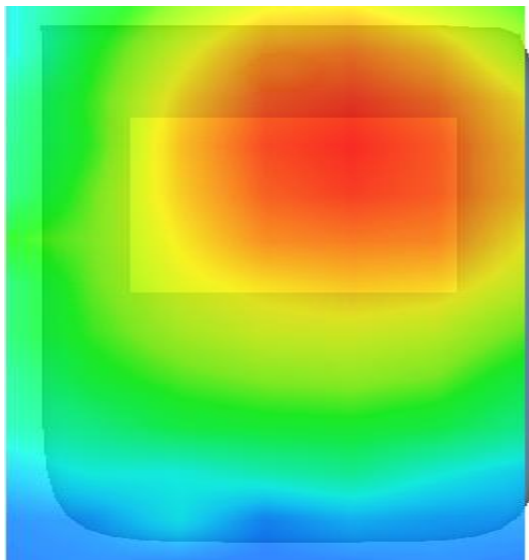
Maximum location: X=7.00, Y=36.00

SAR Peak: 0.07 W/kg

SAR 10g (W/Kg)	0.039542
SAR 1g (W/Kg)	0.055733

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0636	0.0540	0.0433	0.0316	0.0250	0.0166	0.0120



3D screen shot	Hot spot position
	

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**MEASUREMENT 25**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.01.19

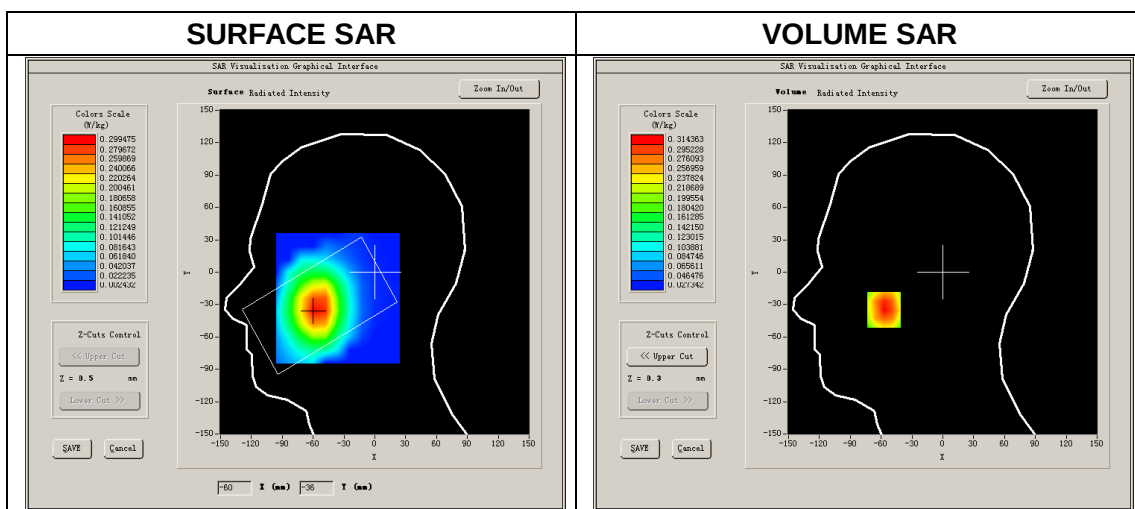
Measurement duration: 16 minutes 17 seconds

A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>CUSTOM (GPRS850 4Tx)</u>
Channels	<u>Middle</u>
Signal	<u>GPRS</u>

B. SAR Measurement Results

Frequency (MHz)	836.599976
Relative permittivity (real part)	41.179600
Conductivity (S/m)	0.901269
Power drift (%)	0.260000
Ambient Temperature:	22.6°C
Liquid Temperature:	21.2°C
ConvF:	6.13
Crest factor:	1:2.08

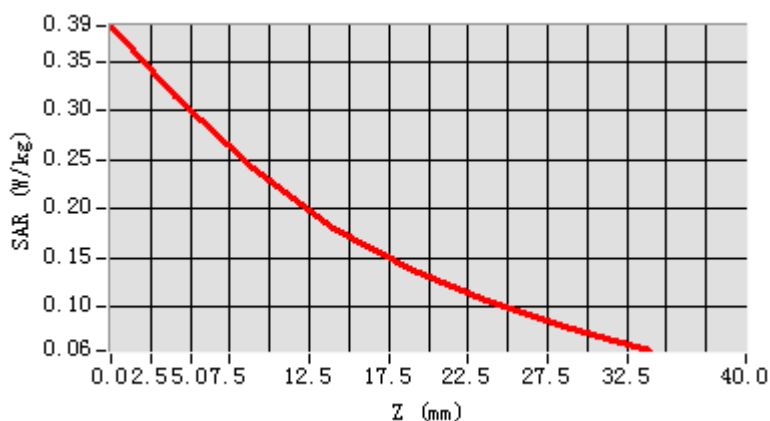
**Maximum location: X=-57.00, Y=-35.00**

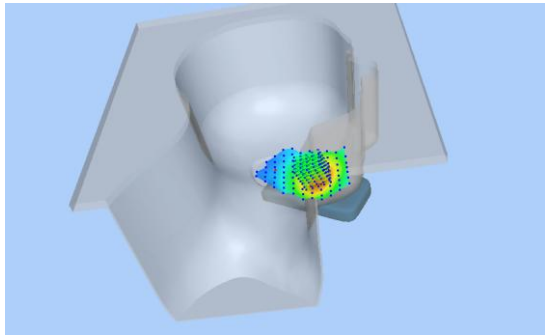
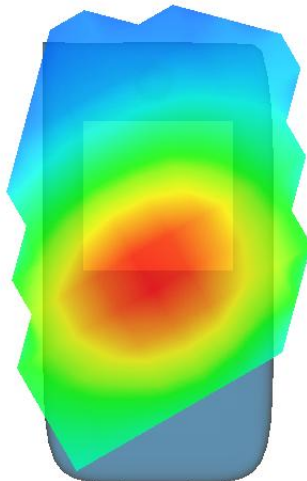
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SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.213763
SAR 1g (W/Kg)	0.307635

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3864	0.3144	0.2413	0.1810	0.1378	0.1050	0.0773



3D screen shot	Hot spot position
	

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**MEASUREMENT 26**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.02.01

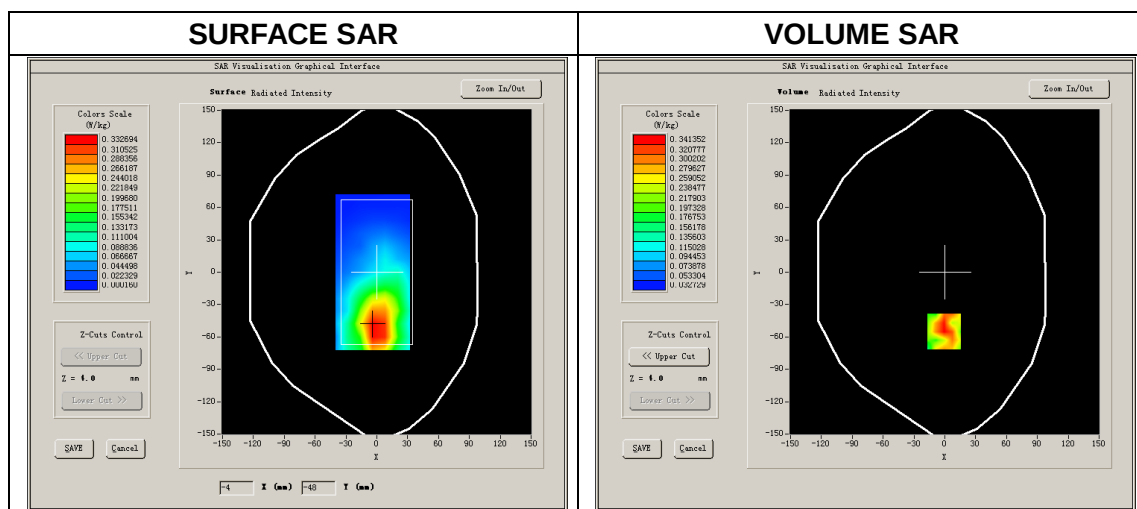
Measurement duration: 16 minutes 06 seconds

A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Flat</u>
Device Position	<u>Body</u>
Band	<u>CUSTOM (GPRS850 4Tx)</u>
Channels	<u>Middle</u>
Signal	<u>GPRS</u>

B. SAR Measurement Results

Frequency (MHz)	836.599976
Relative permittivity (real part)	55.275076
Conductivity (S/m)	0.981353
Power drift (%)	-1.560000
Ambient Temperature:	22.6°C
Liquid Temperature:	21.2°C
ConvF:	6.37
Crest factor:	1:2.08



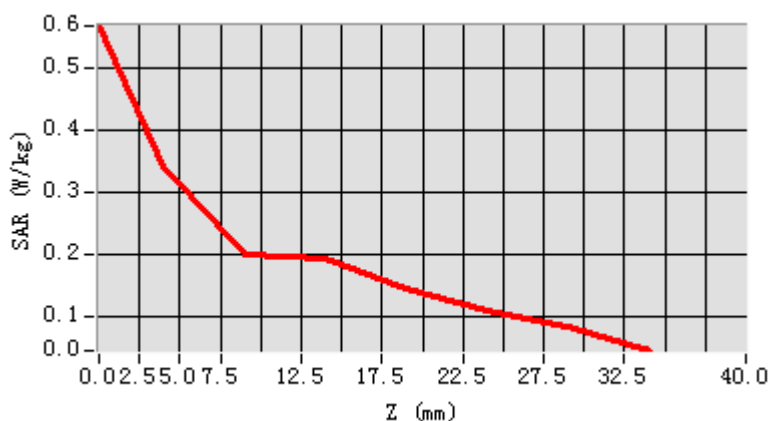
NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

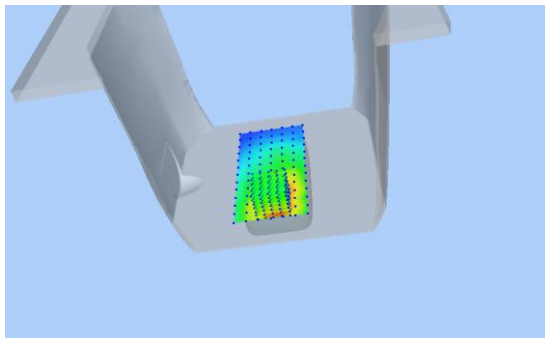
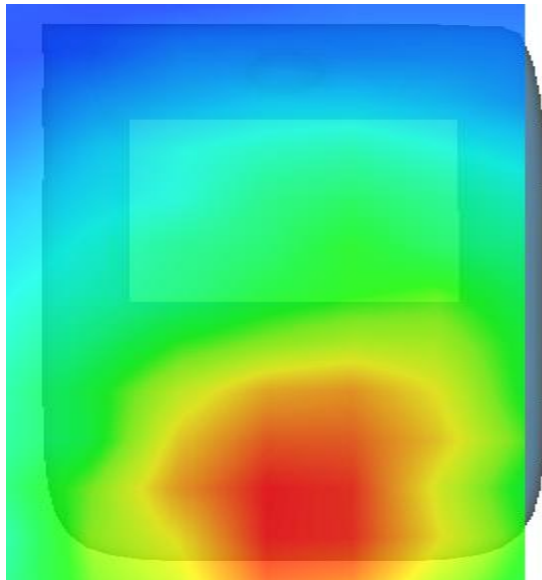
Maximum location: X=-1.00, Y=-55.00

SAR Peak: 0.56 W/kg

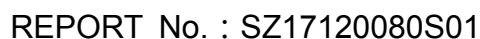
SAR 10g (W/Kg)	0.214642
SAR 1g (W/Kg)	0.341530

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5663	0.3414	0.1979	0.1916	0.1454	0.1084	0.0832



3D screen shot	Hot spot position
	

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Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

Zoom scan resolution: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Date of measurement: 2018.01.17

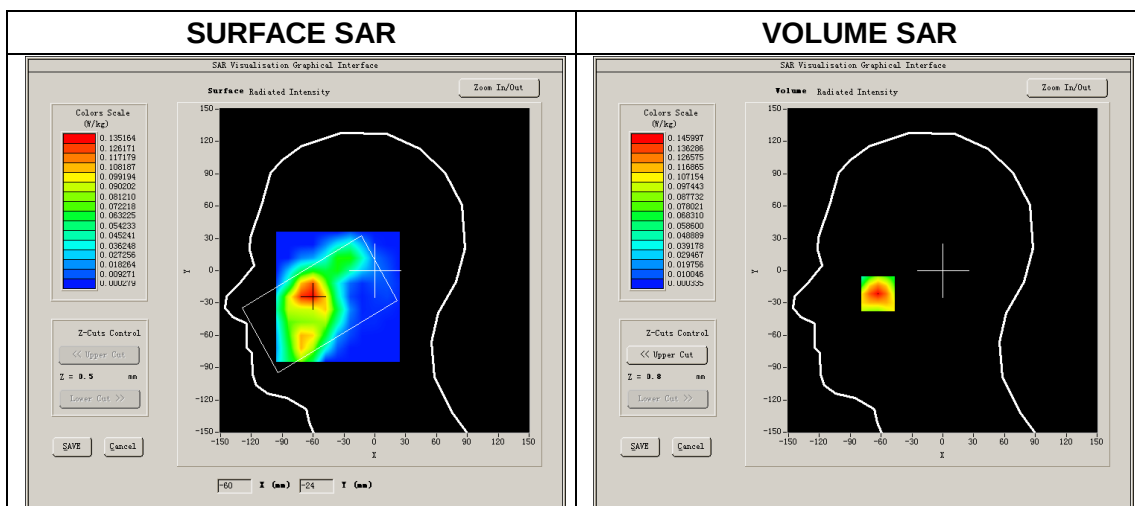
Measurement duration: 16 minutes 10 seconds

A. Experimental conditions.

<u>Phantom File</u>	surf_sam_plan.txt
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	CUSTOM (GPRS1900 4Tx)
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	GPRS

B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.210000
Conductivity (S/m)	1.400391
Power drift (%)	-2.660000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.4°C
ConvF:	5.61
Duty cycle:	1:2.08



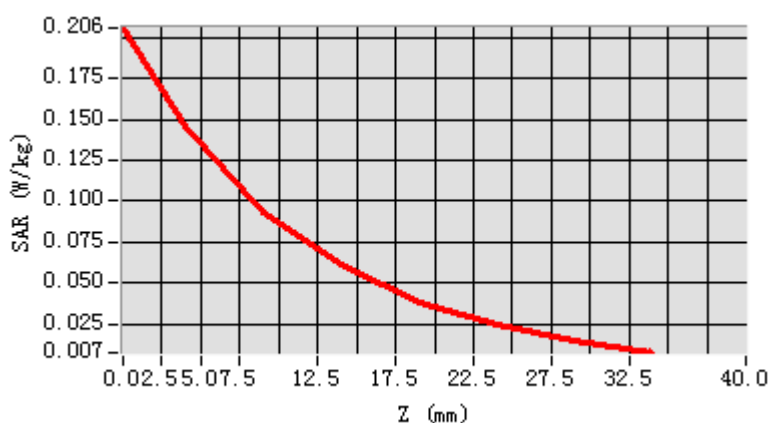
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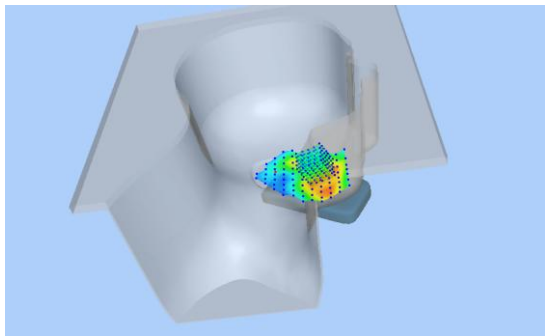
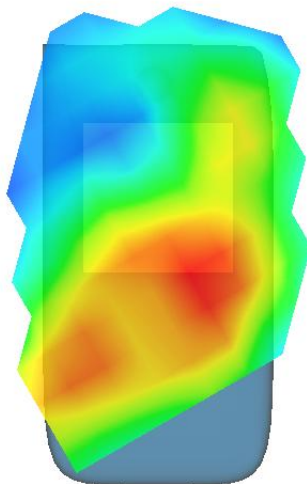
Maximum location: X=-63.00, Y=-21.00

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.080933
SAR 1g (W/Kg)	0.136728

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2058	0.1460	0.0928	0.0619	0.0380	0.0244	0.0154



3D screen shot	Hot spot position
	

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**MEASUREMENT 28**

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm,dy=15mm

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

Date of measurement: 2018.01.23

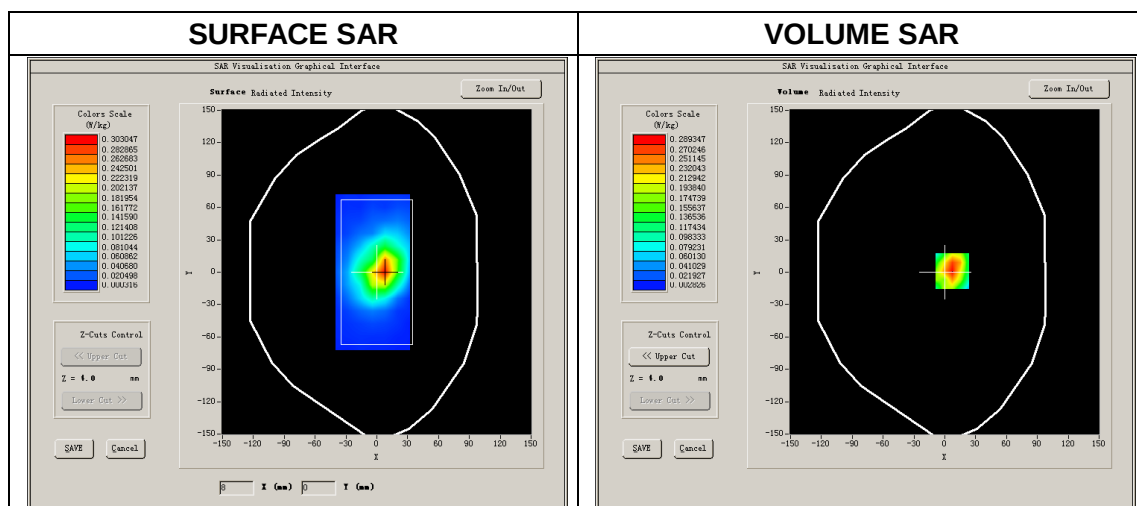
Measurement duration: 15 minutes 59 seconds

A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Flat</u>
Device Position	<u>Body</u>
Band	<u>CUSTOM (GPRS1900 4Tx)</u>
Channels	<u>Middle</u>
Signal	<u>GPRS</u>

B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	53.436999
Conductivity (S/m)	1.509711
Power drift (%)	-2.280000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.4°C
ConvF:	5.61
Duty cycle:	1:2.08



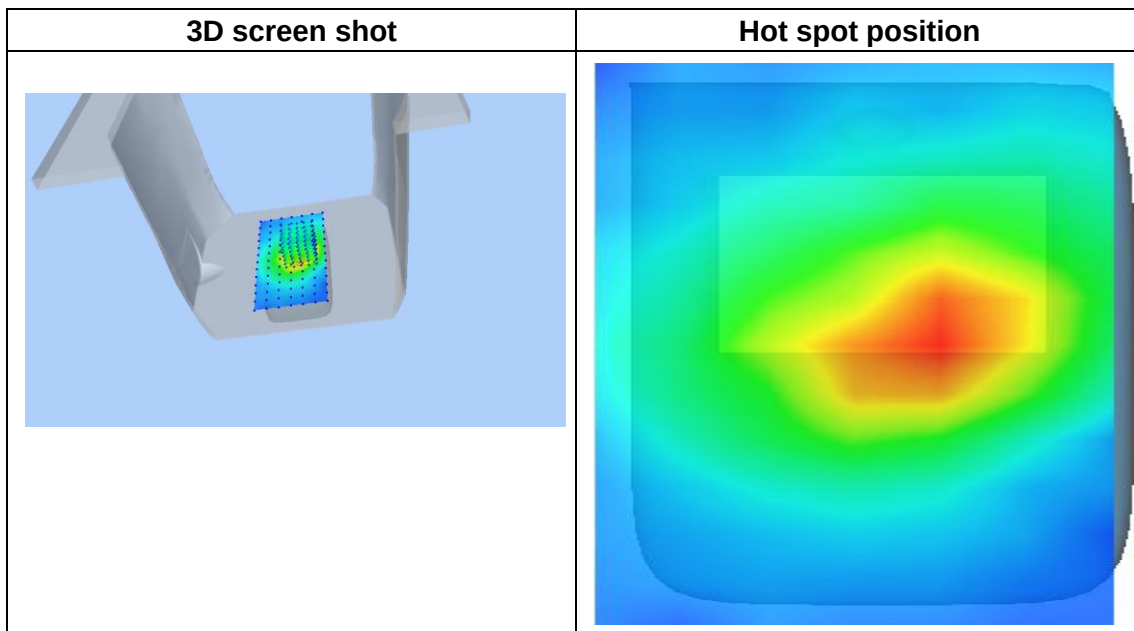
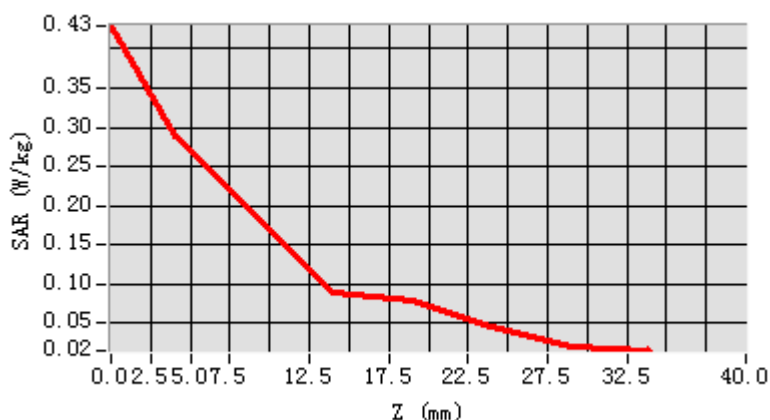
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Maximum location: X=7.00, Y=1.00

SAR Peak: 0.43 W/kg

SAR 10g (W/Kg)	0.149561
SAR 1g (W/Kg)	0.272037

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4293	0.2893	0.1905	0.0902	0.0788	0.0464	0.0200



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