



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=5mm, dy=5mm, dz=5mm

Date of measurement: 2018.07.06

Measurement duration: 15 minutes 36 seconds

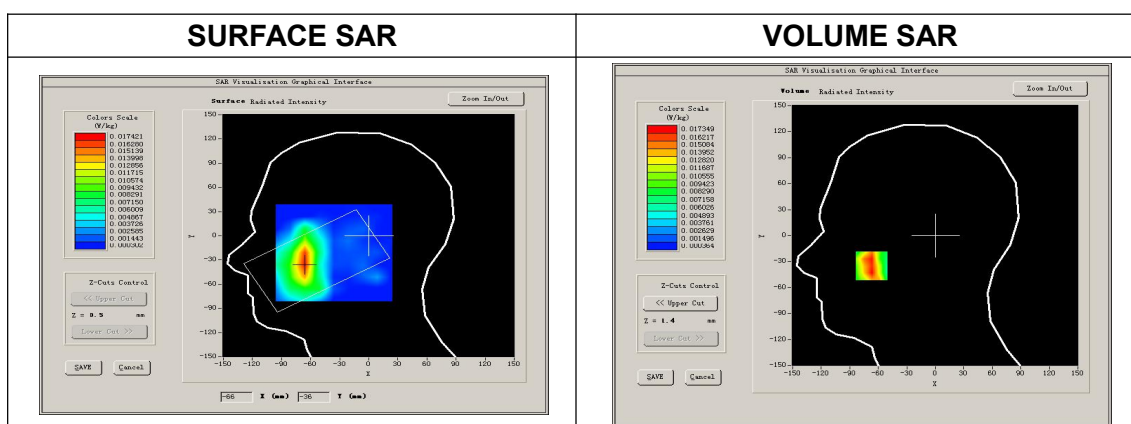
A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>BC0 US Cellular</u>
Channels	<u>Middle</u>
Signal	<u>Voice</u>

B. SAR Measurement Results

Middle Band SAR (Channel 384):

Frequency (MHz)	836.520000
Relative permittivity (real part)	41.185165
Conductivity (S/m)	0.876217
Power drift (%)	1.010000
Ambient Temperature:	22.2°C
Liquid Temperature:	21.4°C
ConvF:	6.13
Crest factor:	1:1



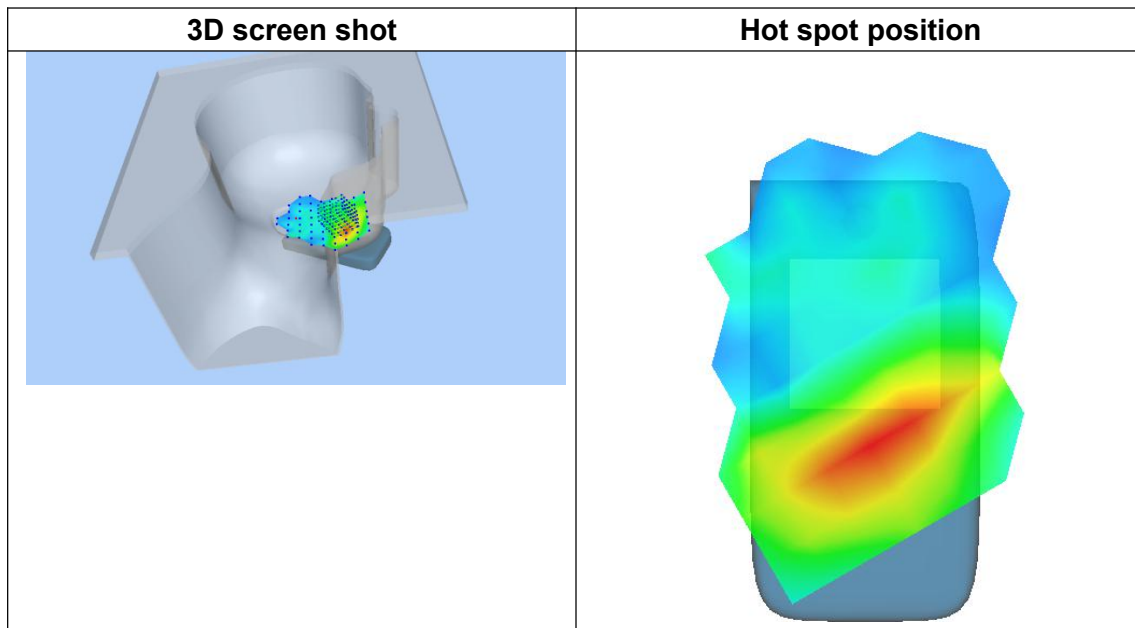
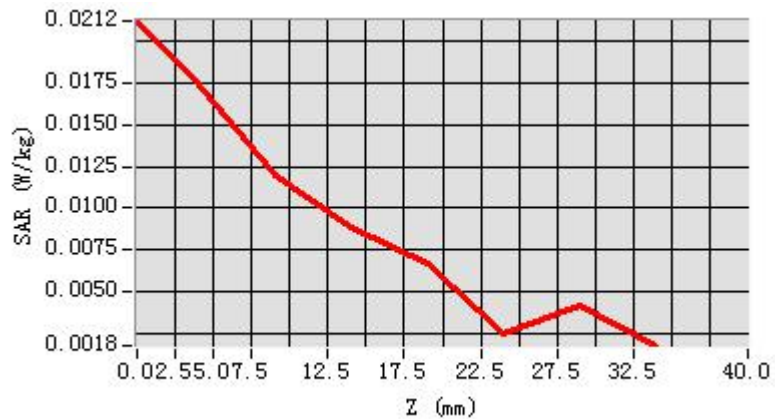
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Maximum location: X=-67.00, Y=-35.00

SAR Peak: 0.03 W/kg

SAR 10g (W/Kg)	0.010532
SAR 1g (W/Kg)	0.016639

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0212	0.0173	0.0120	0.0089	0.0067	0.0025	0.0041



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MORLAB

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.
FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

Fax: 86-755-36698525

Http://www.morlab.cn

E-mail: service@morlab.cn

MEASUREMENT 2

Type: Phone measurement (Complete)

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

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

Date of measurement: 2018.06.30

Measurement duration: 15 minutes 6 seconds

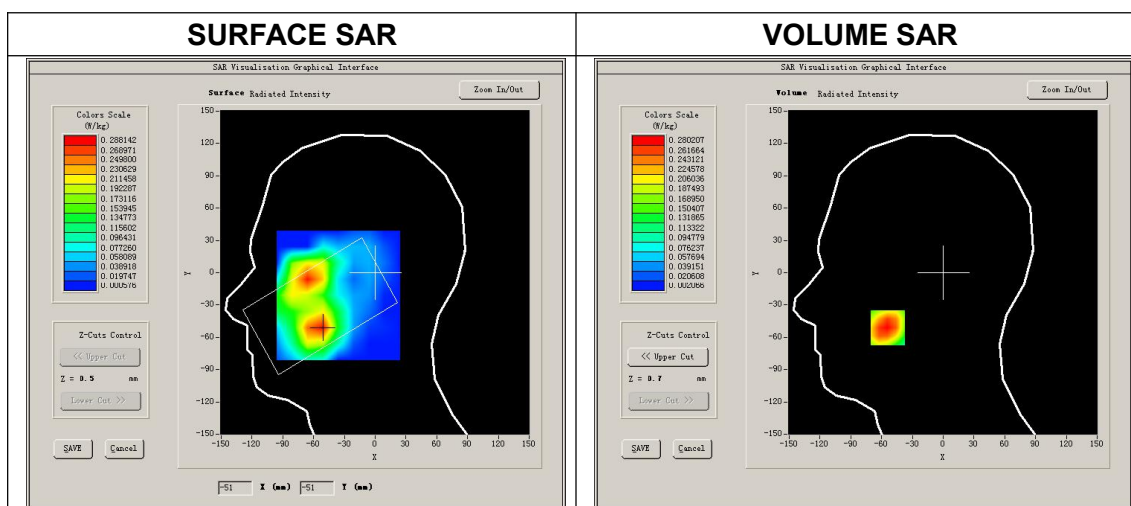
A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Left head
Device Position	Cheek
Band	BC1_North_American_PCS
Channels	Low
Signal	Voice

B. SAR Measurement Results

Lower Band SAR (Channel 25):

Frequency (MHz)	1851.250000
Relative permittivity (real part)	40.102156
Conductivity (S/m)	1.374075
Power drift (%)	0.310000
Ambient Temperature:	22.3°C
Liquid Temperature:	21.5°C
ConvF:	5.21
Crest factor:	1:1



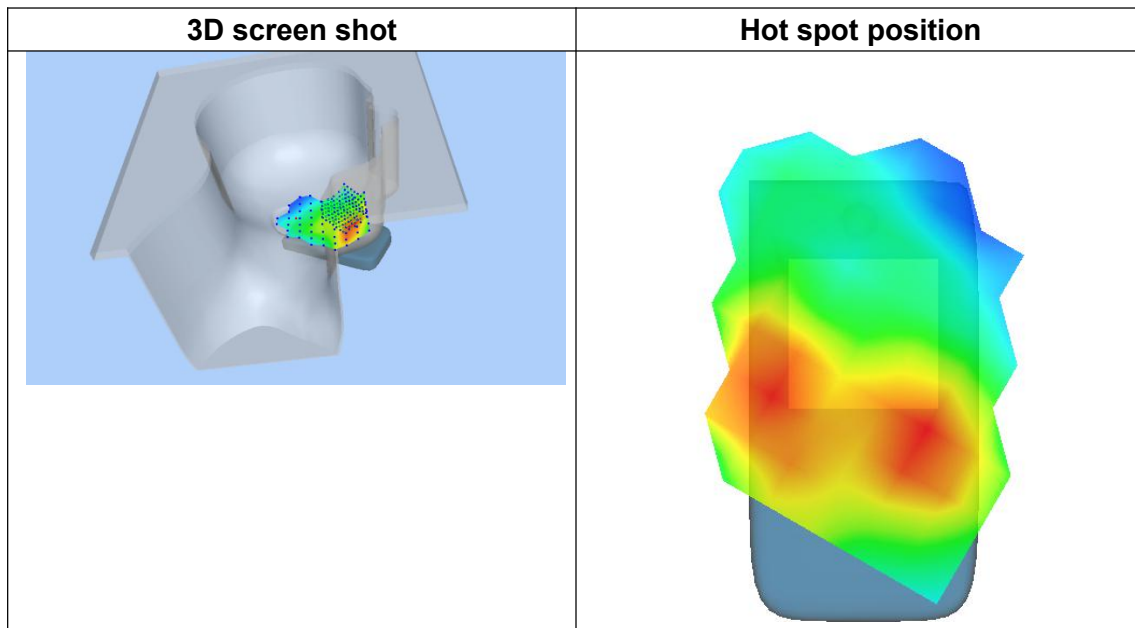
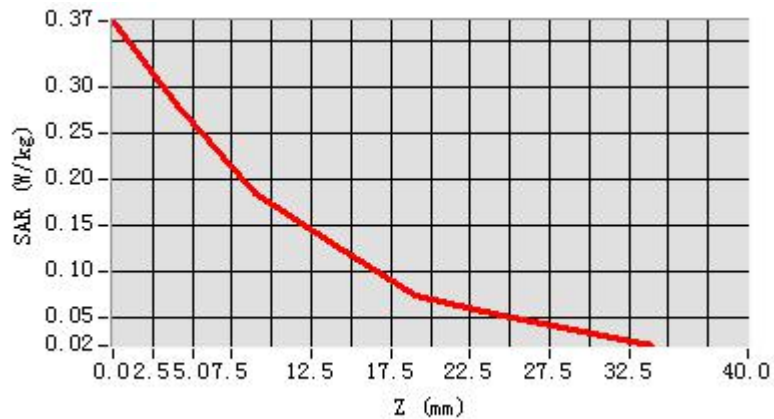
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Maximum location: X=-54.00, Y=-51.00

SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.024176
SAR 1g (W/Kg)	0.045172

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3723	0.2802	0.1839	0.1277	0.0736	0.0538	0.0373



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FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

Fax: 86-755-36698525

[Http://www.morlab.cn](http://www.morlab.cn)

E-mail: service@morlab.cn

MEASUREMENT 3

Type: Phone measurement (Complete)

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

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

Date of measurement: 2018.07.06

Measurement duration: 15 minutes 41 seconds

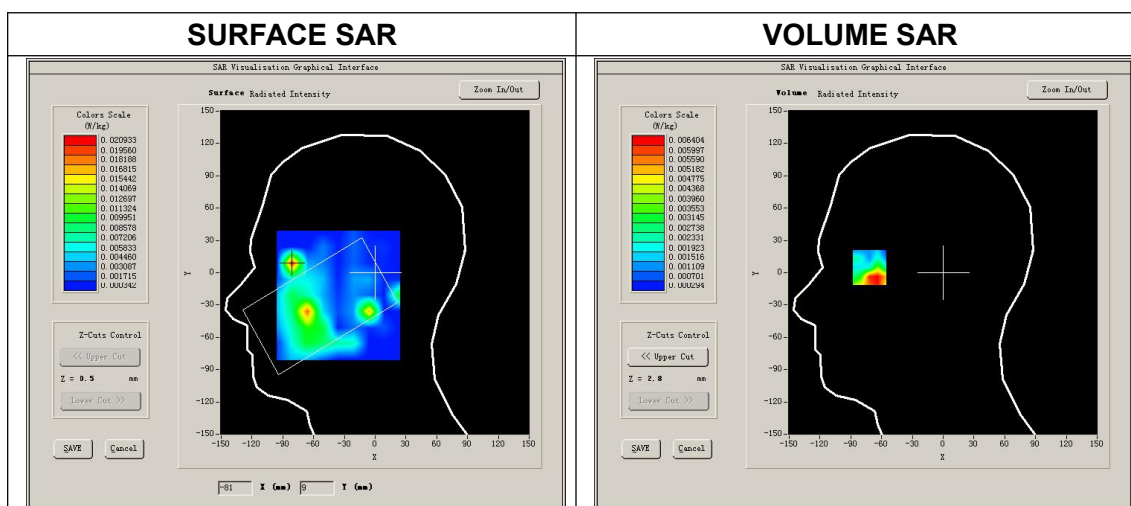
A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>BC10_Secondary_800MHz</u>
Channels	<u>Low</u>
Signal	<u>Voice</u>

B. SAR Measurement Results

Lower Band SAR (Channel 476):

Frequency (MHz)	817.900000
Relative permittivity (real part)	41.185285
Conductivity (S/m)	0.875717
Power drift (%)	1.010000
Ambient Temperature:	22.2°C
Liquid Temperature:	21.4°C
ConvF:	6.13
Crest factor:	1:1



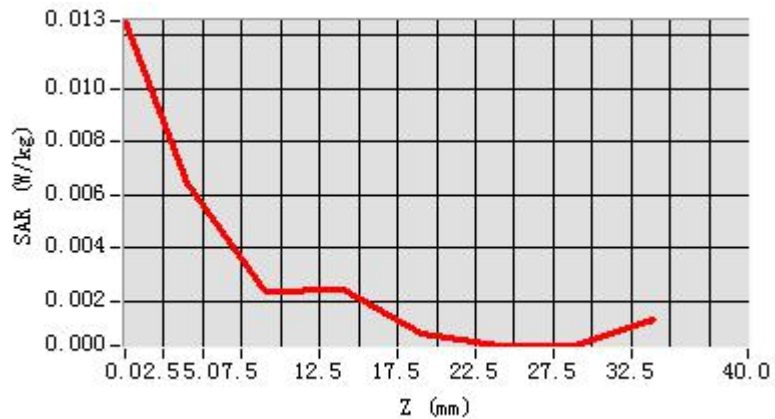
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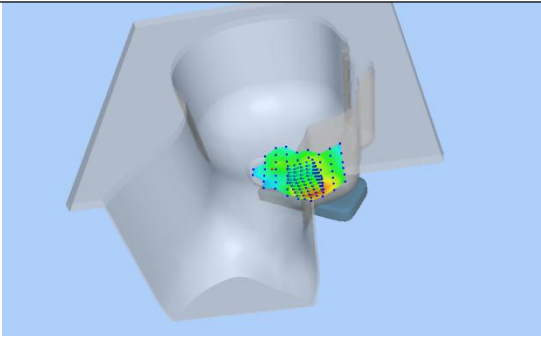
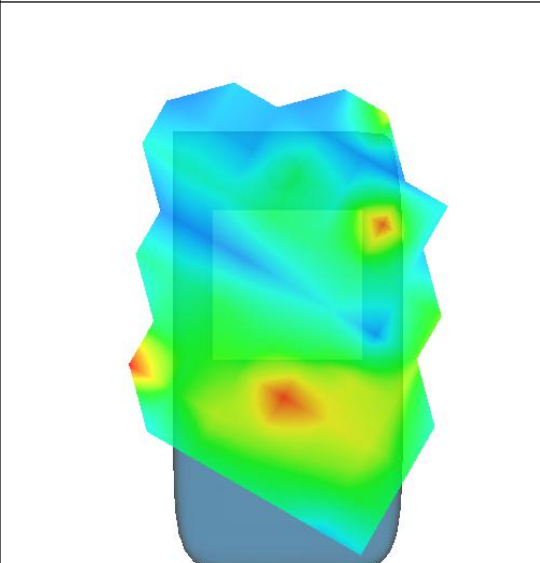
Maximum location: X=-72.00, Y=9.00

SAR Peak: 0.018 W/kg

SAR 10g (W/Kg)	0.007311
SAR 1g (W/Kg)	0.016443

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0126	0.0064	0.0024	0.0024	0.0007	0.0003	0.0003



3D screen shot	Hot spot position
	

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FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
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Http://www.morlab.cn

E-mail: service@morlab.cn

MEASUREMENT 4

Type: Phone measurement (Complete)

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

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

Date of measurement: 2018.06.30

Measurement duration: 15 minutes 26 seconds

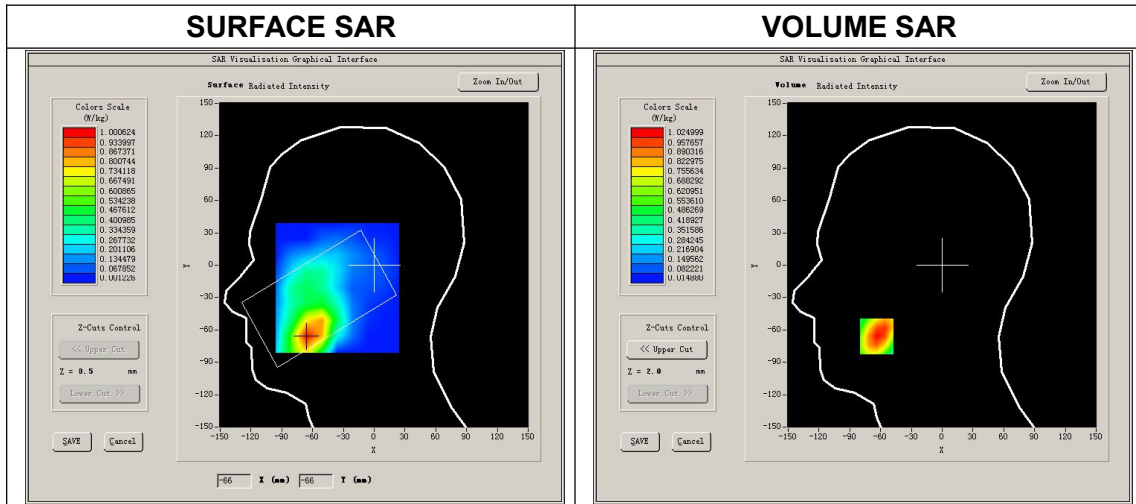
A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>LTE band 25</u>
Channels	<u>High</u>
Signal	<u>LTE</u>

B. SAR Measurement Results

Higher Band SAR (Channel 26590):

Frequency (MHz)	1905.000000
Relative permittivity (real part)	40.081126
Conductivity (S/m)	1.395027
Power drift (%)	0.310000
Ambient Temperature:	22.3°C
Liquid Temperature:	21.5°C
ConvF:	5.21
Crest factor:	1:1



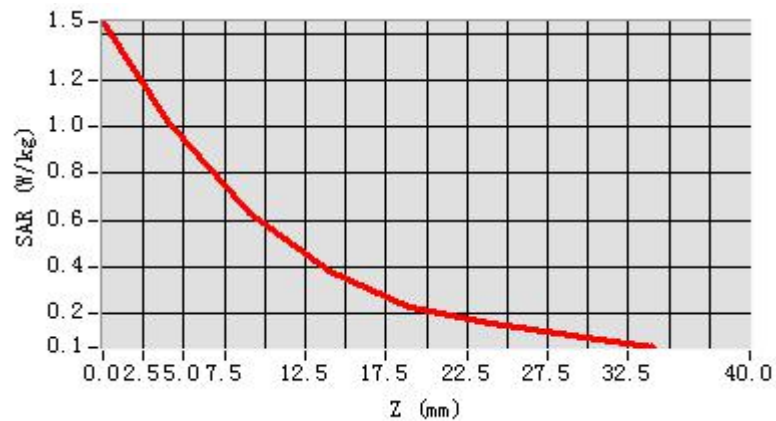
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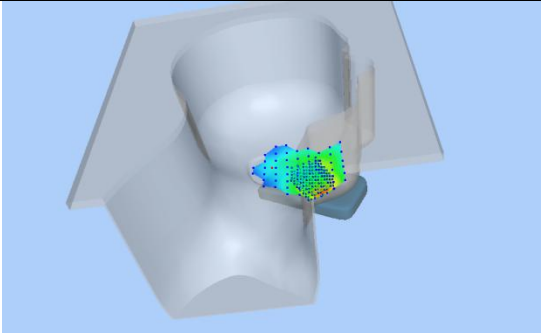
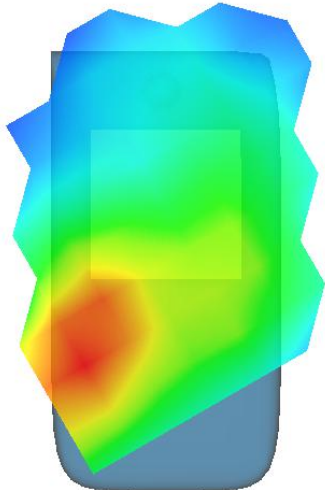
Maximum location: X=-64.00, Y=-66.00

SAR Peak: 1.48 W/kg

SAR 10g (W/Kg)	0.567991
SAR 1g (W/Kg)	0.967716

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.4526	1.0250	0.6353	0.3776	0.2237	0.1533	0.1003



3D screen shot	Hot spot position
	

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FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
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Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn

MEASUREMENT 5

Type: Phone measurement (Complete)

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

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

Date of measurement: 2018.07.06

Measurement duration: 15 minutes 31 seconds

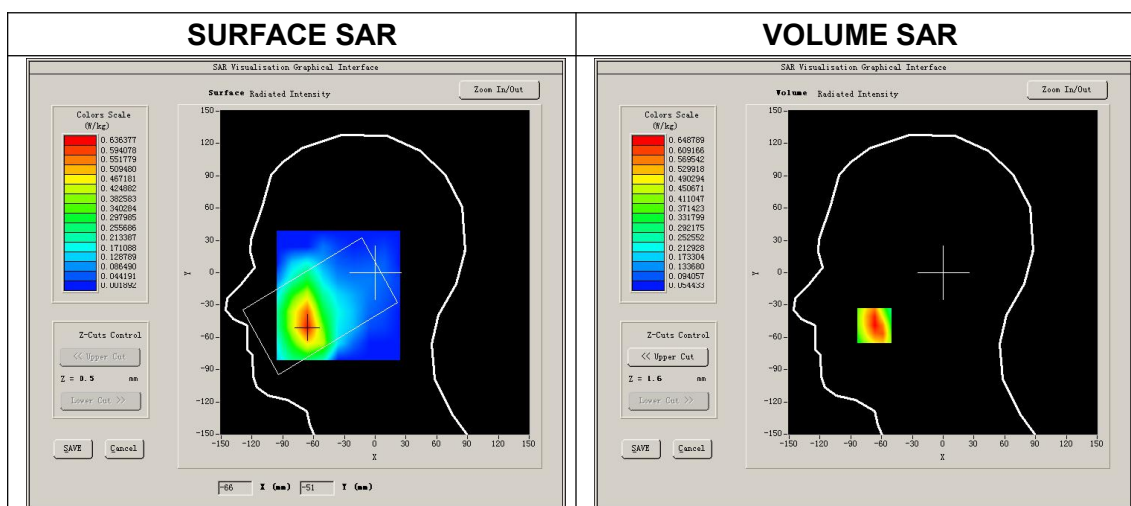
A. Experimental conditions.

<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 26</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Middle Band SAR (Channel 26865):

Frequency (MHz)	831.500000
Relative permittivity (real part)	41.185285
Conductivity (S/m)	0.875717
Power drift (%)	1.010000
Ambient Temperature:	22.2°C
Liquid Temperature:	21.4°C
ConvF:	6.13
Crest factor:	1:1



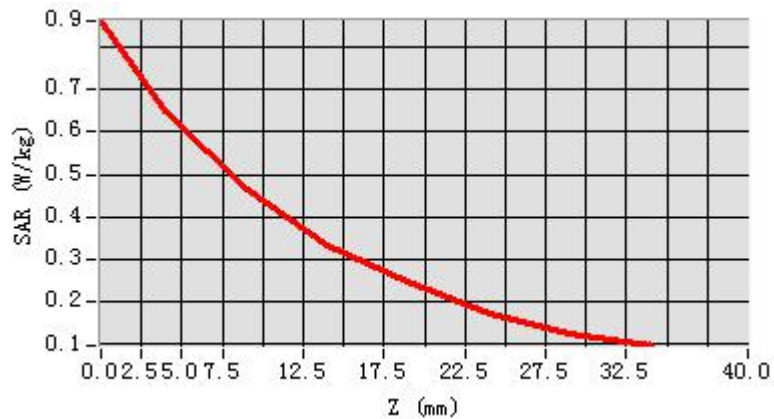
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Maximum location: X=-67.00, Y=-49.00

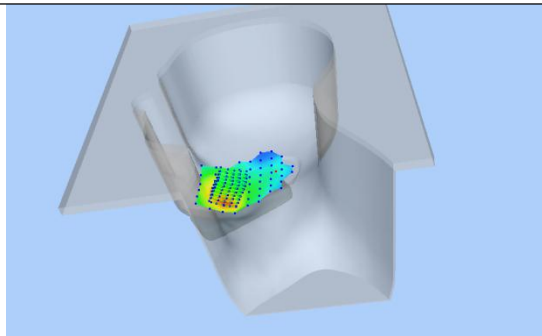
SAR Peak: 0.89 W/kg

SAR 10g (W/Kg)	0.406566
SAR 1g (W/Kg)	0.617770

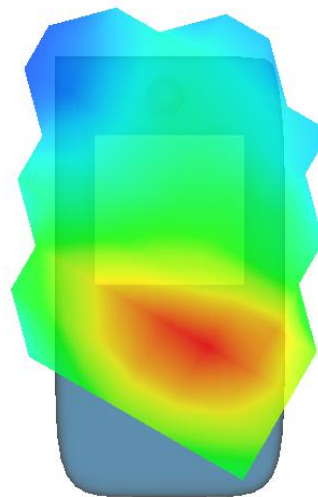
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8614	0.6488	0.4628	0.3311	0.2457	0.1742	0.1268



3D screen shot



Hot spot position



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FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
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Tel: 86-755-36698555

Fax: 86-755-36698525

Http://www.morlab.cn

E-mail: service@morlab.cn

MEASUREMENT 6

Type: Phone measurement (Complete)

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

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

Date of measurement: 2018.06.30

Measurement duration: 20 minutes 54 seconds

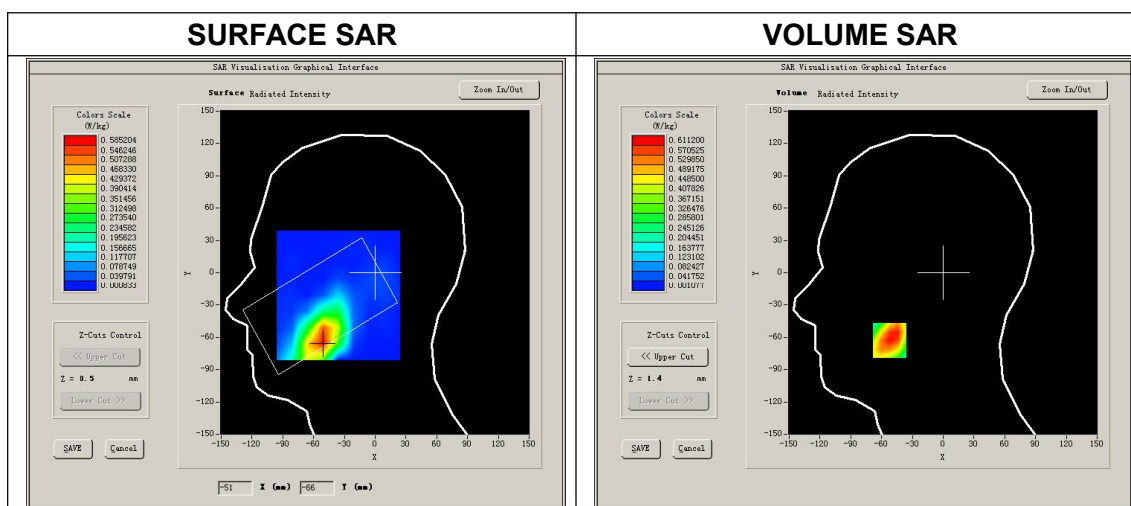
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 41</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Middle Band SAR (Channel 40620):

Frequency (MHz)	2593.000000
Relative permittivity (real part)	39.031537
Conductivity (S/m)	1.965236
Power Drift (%)	0.920000
Ambient Temperature:	22.3°C
Liquid Temperature:	21.5°C
ConvF:	4.74
Crest factor:	1:1



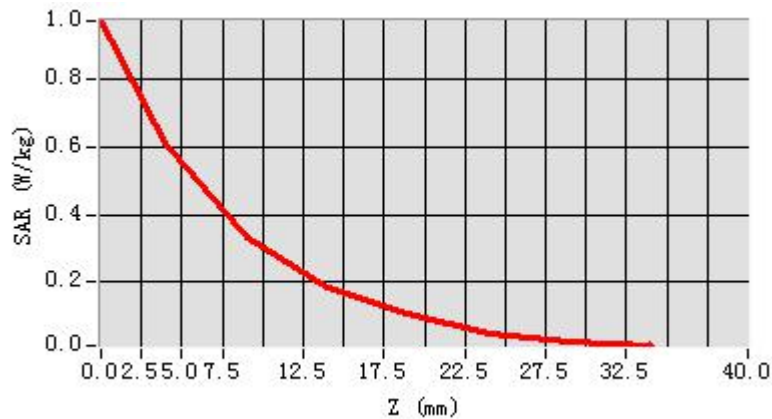
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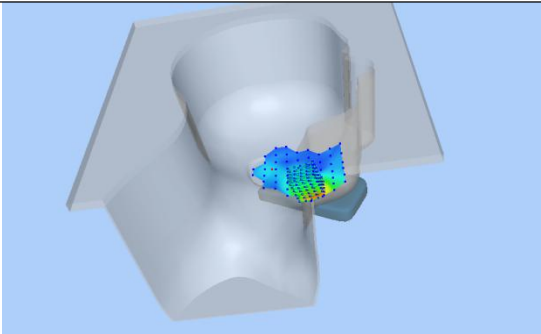
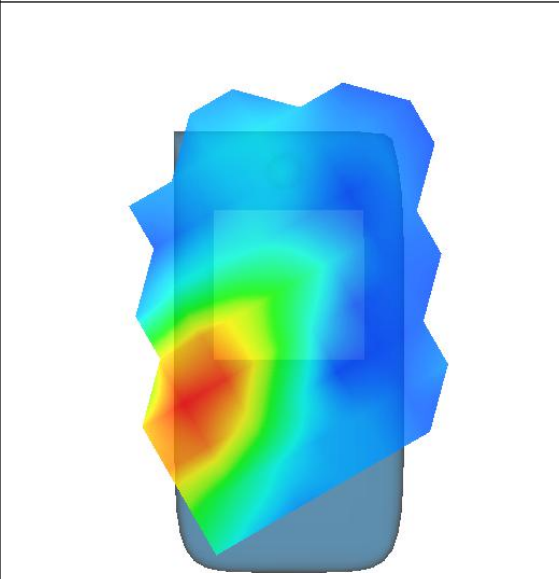
Maximum location: X=-52.00, Y=-63.00

SAR Peak: 1.01 W/kg

SAR 10g (W/Kg)	0.356946
SAR 1g (W/Kg)	0.598208

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.9753	0.6112	0.3350	0.1828	0.1069	0.0487	0.0229



3D screen shot	Hot spot position
	

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FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
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Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn

MEASUREMENT 7

Type: Phone measurement (Complete)

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

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

Date of measurement: 2018.07.10

Measurement duration: 20 minutes 43 seconds

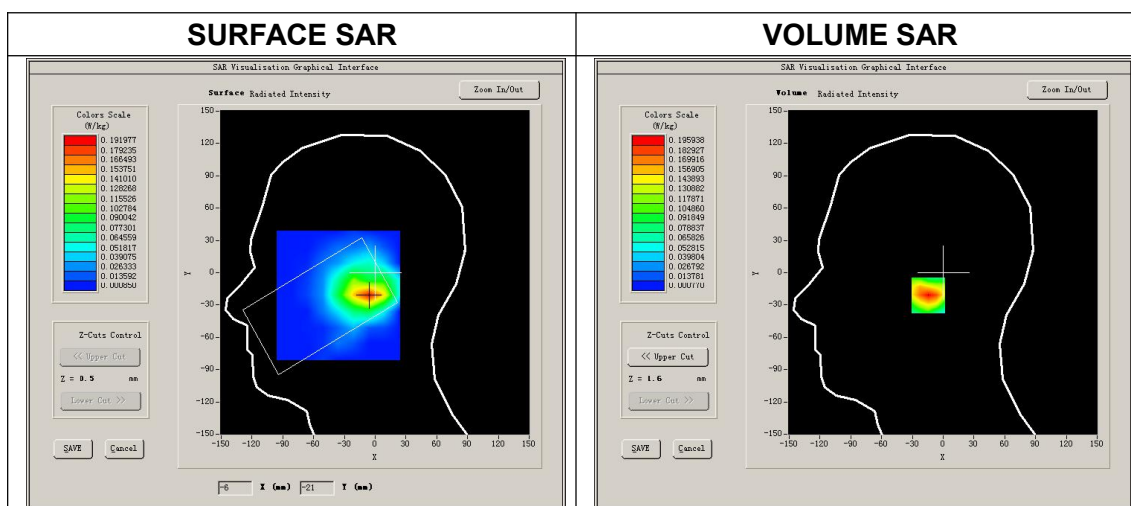
A. Experimental conditions.

<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 802.11b ISM</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>DSSS</u>

B. SAR Measurement Results

Middle Band SAR (Channel 6):

Frequency (MHz)	2437.000000
Relative permittivity (real part)	39.310316
Conductivity (S/m)	1.831169
Power Drift (%)	0.980000
Ambient Temperature:	22.2°C
Liquid Temperature:	21.3°C
ConvF:	4.82
Crest factor:	1:1



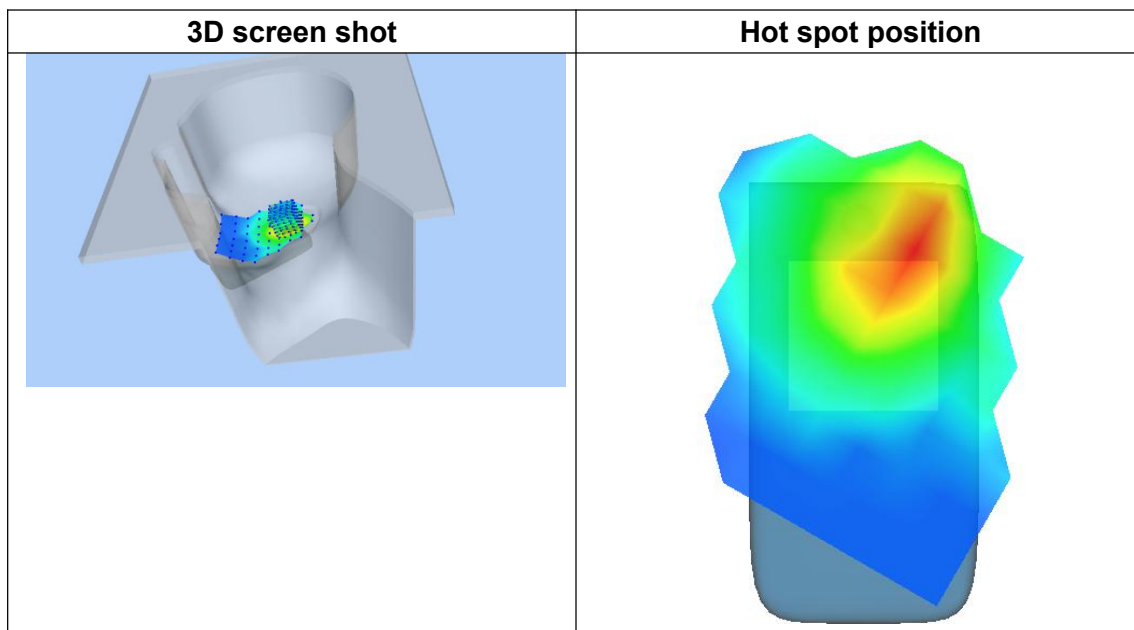
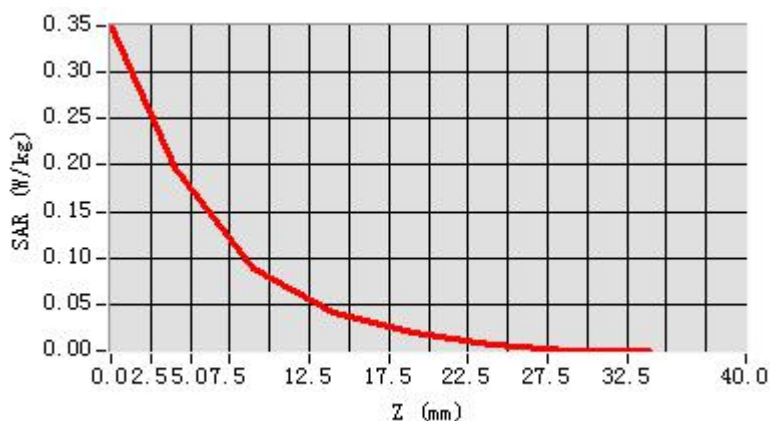
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Maximum location: X=-6.00, Y=-21.00

SAR Peak: 0.34 W/kg

SAR 10g (W/Kg)	0.088875
SAR 1g (W/Kg)	0.185907

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3487	0.1959	0.0894	0.0421	0.0213	0.0075	0.0022



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MEASUREMENT 8

Type: Phone measurement (Complete)

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

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

Date of measurement: 2018.07.02

Measurement duration: 16 minutes 5 seconds

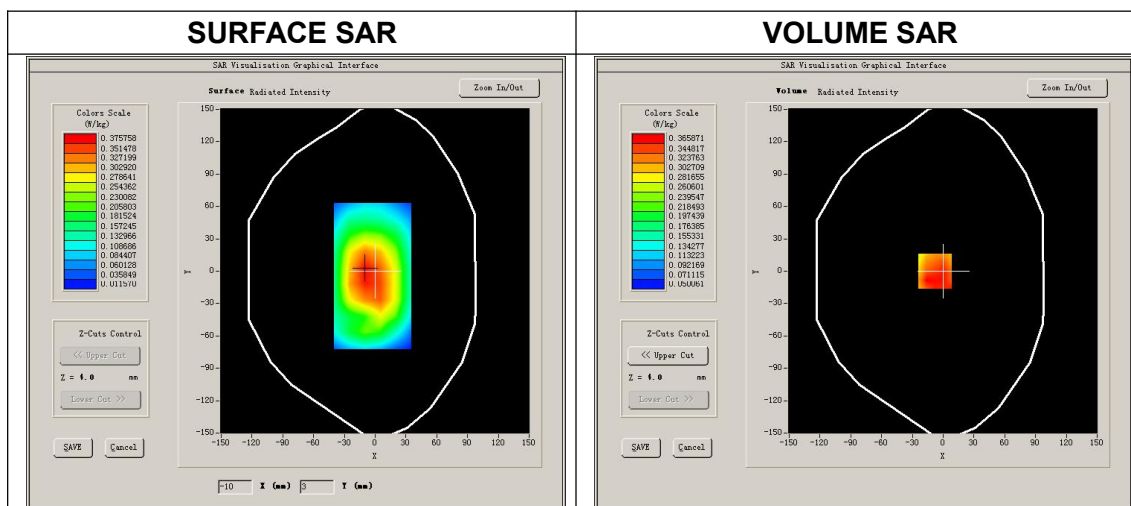
A. Experimental conditions.

<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>BC0 US Cellular</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>Voice</u>

B. SAR Measurement Results

Middle Band SAR (Channel 384):

Frequency (MHz)	836.520000
Relative permittivity (real part)	55.3851801
Conductivity (S/m)	0.969074
Power drift (%)	0.970000
Ambient Temperature:	22.7°C
Liquid Temperature:	21.8°C
ConvF:	6.37
Crest factor:	1:1



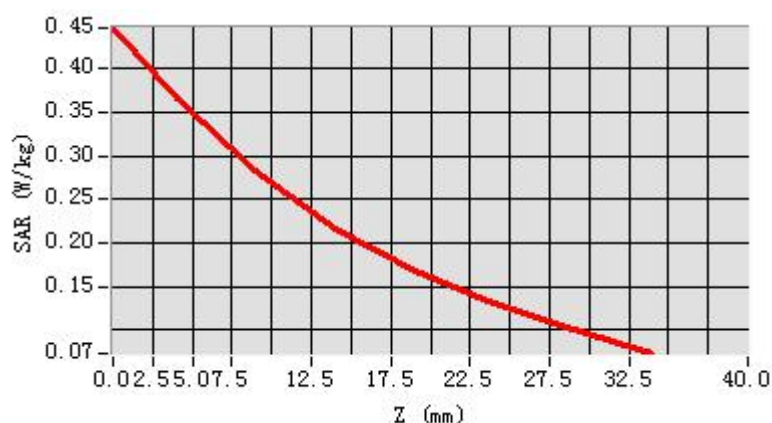
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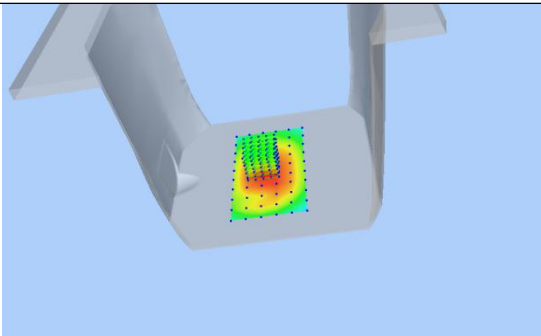
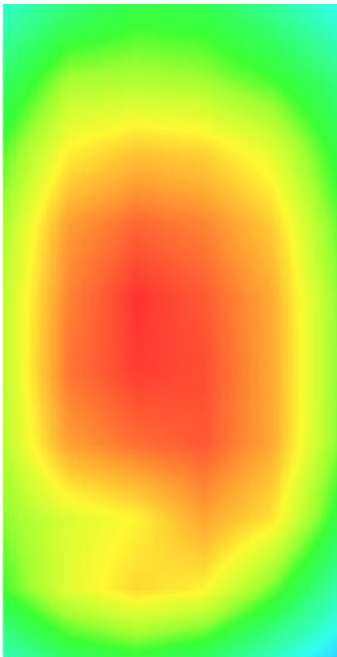
Maximum location: X=-8.00, Y=0.00

SAR Peak: 0.47 W/kg

SAR 10g (W/Kg)	0.268450
SAR 1g (W/Kg)	0.354786

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4470	0.3659	0.2830	0.2166	0.1687	0.1298	0.1005



3D screen shot	Hot spot position
	

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Fax: 86-755-36698525

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MEASUREMENT 9

Type: Phone measurement (Complete)

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

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

Date of measurement: 2018.07.05

Measurement duration: 16 minutes 19 seconds

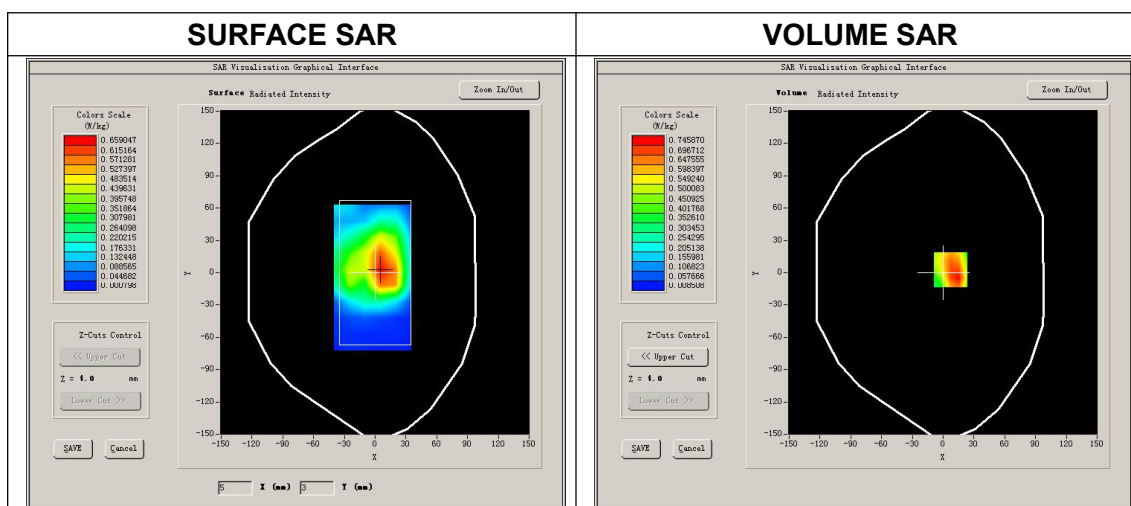
A. Experimental conditions.

Phantom File	<u>surf_sam_plan.txt</u>
Phantom	<u>Flat</u>
Device Position	<u>Body</u>
Band	<u>BC1_North_American_PCS</u>
Channels	<u>Middle</u>
Signal	<u>EVDO</u>

B. SAR Measurement Results

Middle Band SAR (Channel 600):

Frequency (MHz)	1800.000000
Relative permittivity (real part)	53.294148
Conductivity (S/m)	1.517075
Power drift (%)	0.520000
Ambient Temperature:	22.6°C
Liquid Temperature:	21.4°C
ConvF:	5.38
Crest factor:	1:1



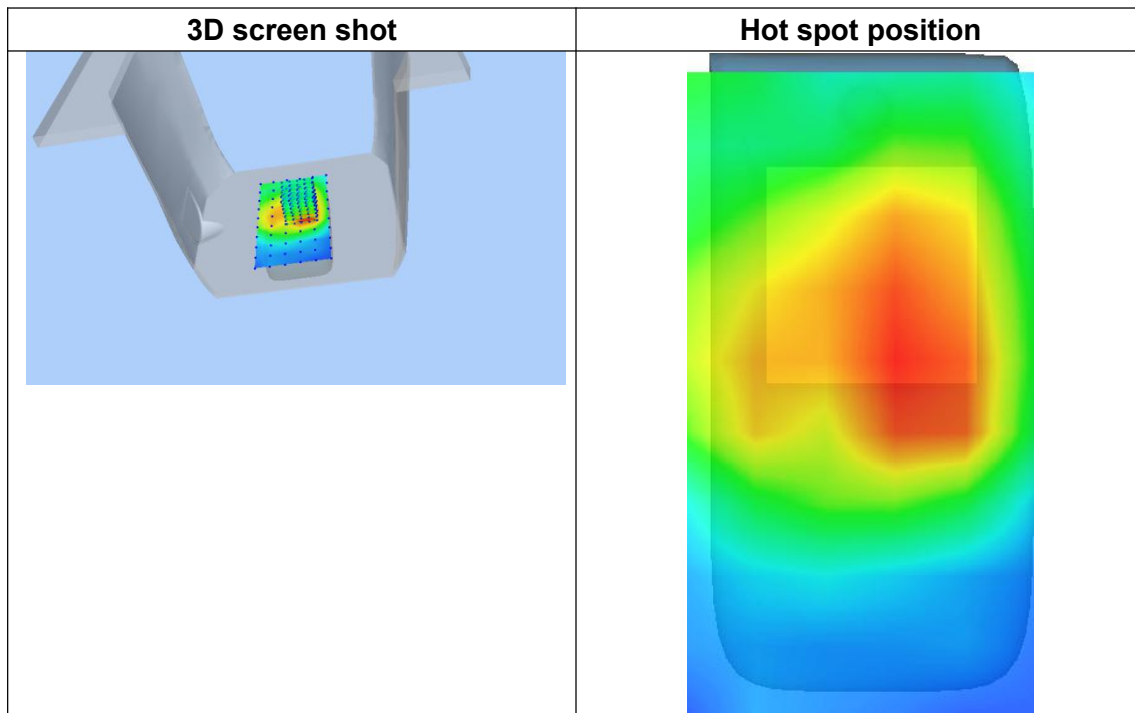
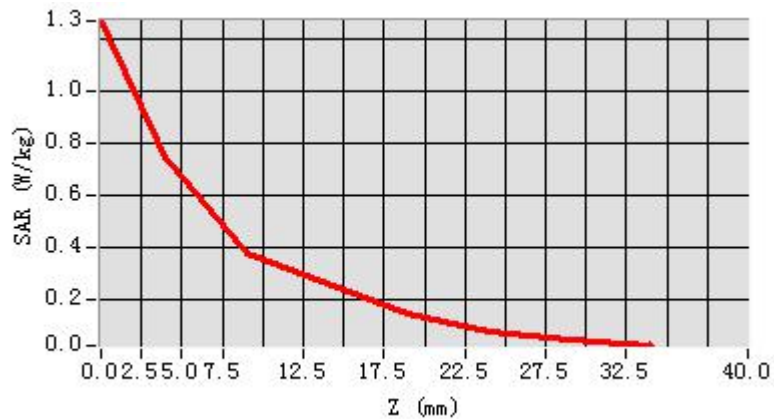
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Maximum location: X=7.00, Y=3.00

SAR Peak: 1.16 W/kg

SAR 10g (W/Kg)	0.402383
SAR 1g (W/Kg)	0.712238

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.2695	0.7459	0.3738	0.2658	0.1504	0.0770	0.0490



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SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.
FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn

MEASUREMENT 10

Type: Phone measurement (Complete)

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

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

Date of measurement: 6/7/2011

Measurement duration: 16 minutes 22 seconds

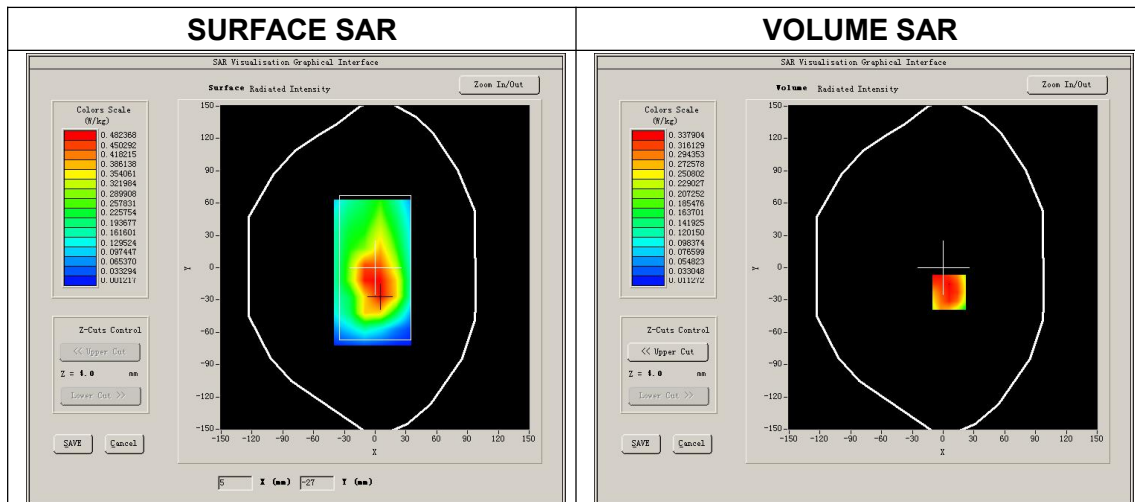
A. Experimental conditions.

<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>BC10_Secondary_800MHz</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>EVDO</u>

B. SAR Measurement Results

Middle Band SAR (Channel 580):

Frequency (MHz)	820.500000
Relative permittivity (real part)	55.3851604
Conductivity (S/m)	0.956178
Power drift (%)	0.970000
Ambient Temperature:	22.7°C
Liquid Temperature:	21.8°C
ConvF:	6.37
Crest factor:	1:1



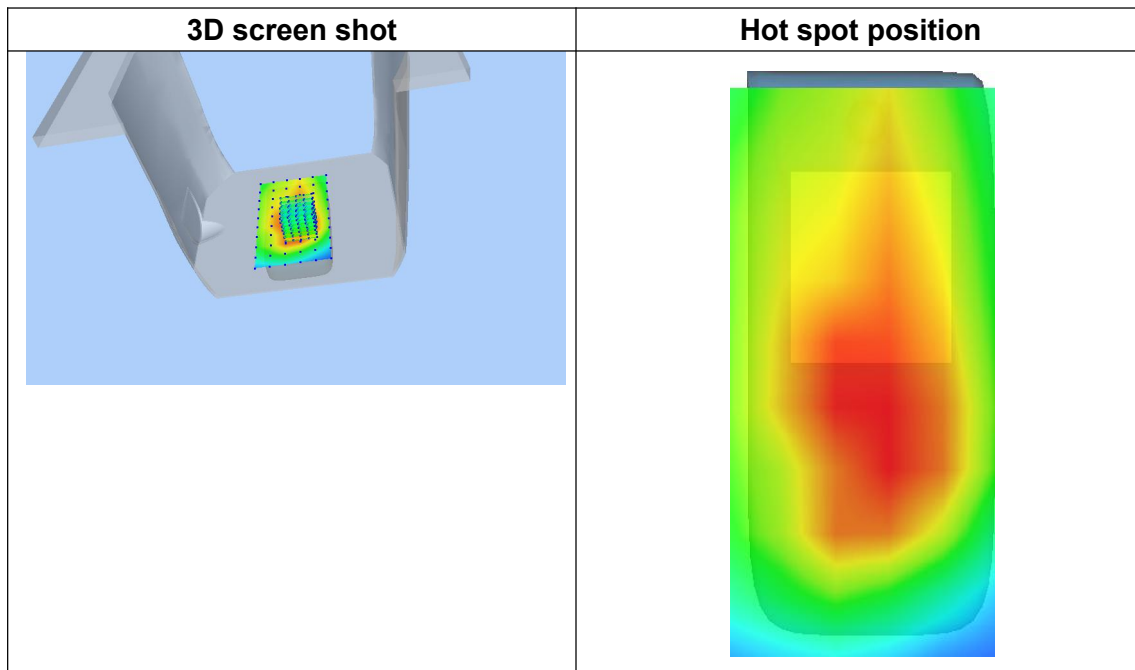
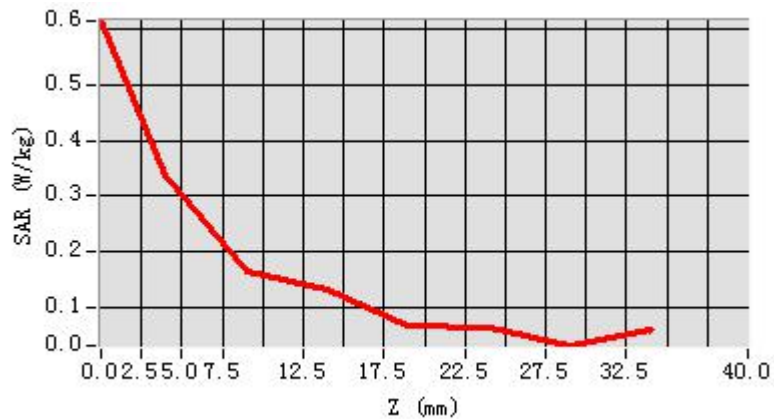
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Maximum location: X=6.00, Y=-23.00

SAR Peak: 0.56 W/kg

SAR 10g (W/Kg)	0.211722
SAR 1g (W/Kg)	0.342364

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6147	0.3379	0.1629	0.1316	0.0670	0.0621	0.0303



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FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn

MEASUREMENT 11

Type: Phone measurement (Complete)

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

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

Date of measurement: 2018.07.05

Measurement duration: 16 minutes 7 seconds

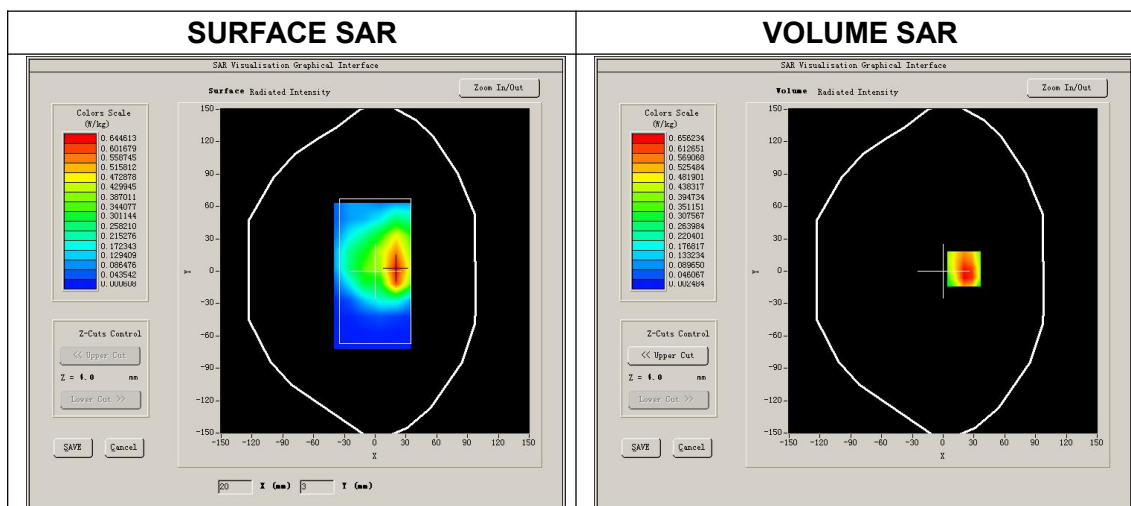
A. Experimental conditions.

<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 25</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Middle Band SAR (Channel 26365):

Frequency (MHz)	1882.500000
Relative permittivity (real part)	40.095167
Conductivity (S/m)	1.365073
Power drift (%)	0.310000
Ambient Temperature:	22.3°C
Liquid Temperature:	21.5°C
ConvF:	5.21
Crest factor:	1:1



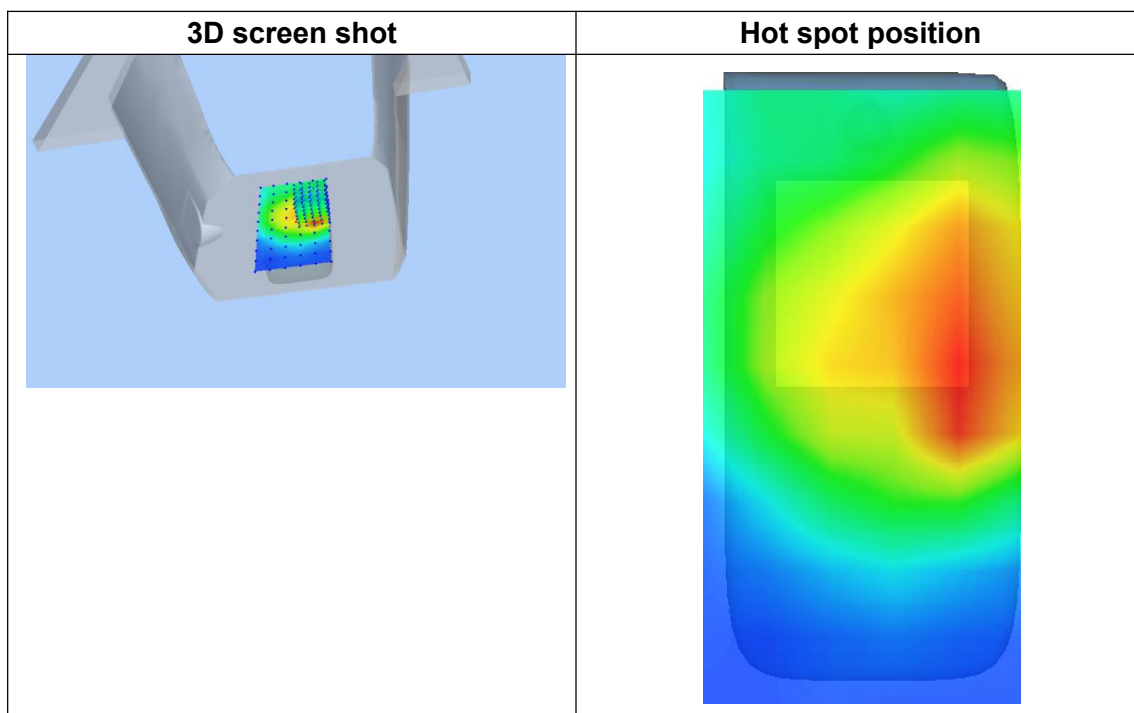
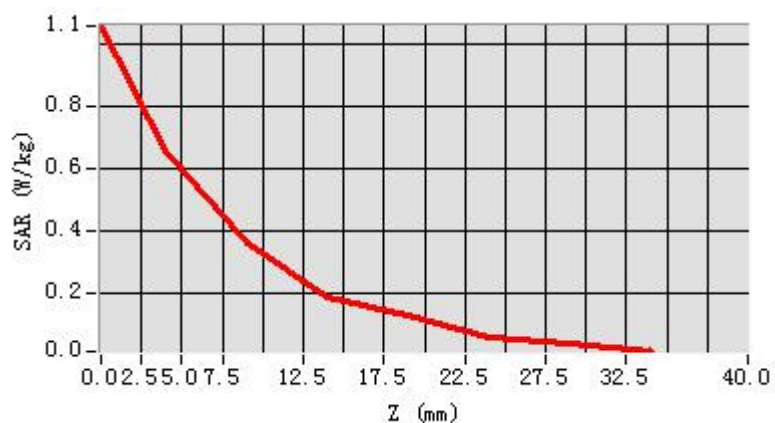
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Maximum location: X=20.00, Y=2.00

SAR Peak: 1.10 W/kg

SAR 10g (W/Kg)	0.349220
SAR 1g (W/Kg)	0.649117

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.0586	0.6562	0.3596	0.1853	0.1296	0.0545	0.0364



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FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

Fax: 86-755-36698525

Http://www.morlab.cn

E-mail: service@morlab.cn

MEASUREMENT 12

Type: Phone measurement (Complete)

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

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

Date of measurement: 2018.07.02

Measurement duration: 16 minutes 2 seconds

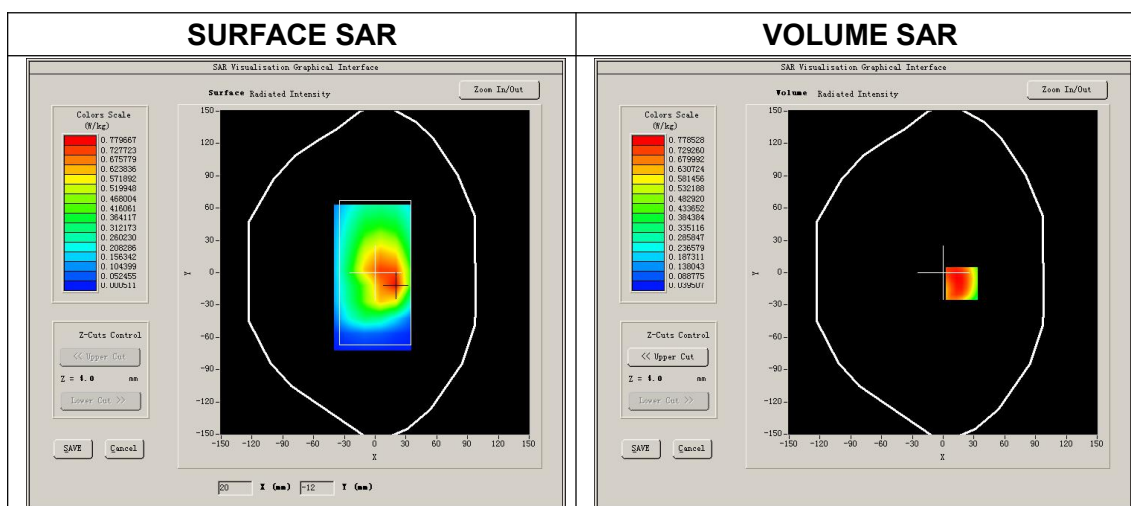
A. Experimental conditions.

<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 26</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Middle Band SAR (Channel 26865):

Frequency (MHz)	831.500000
Relative permittivity (real part)	55.3850803
Conductivity (S/m)	0.967076
Power drift (%)	0.970000
Ambient Temperature:	22.7°C
Liquid Temperature:	21.8°C
ConvF:	6.37
Crest factor:	1:1



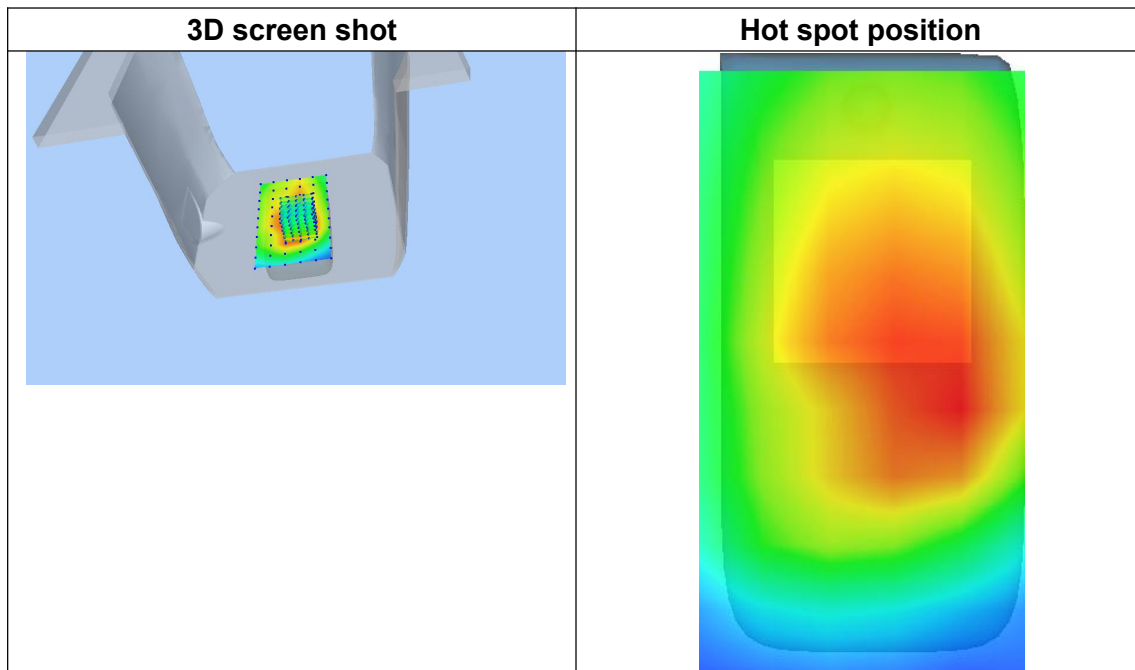
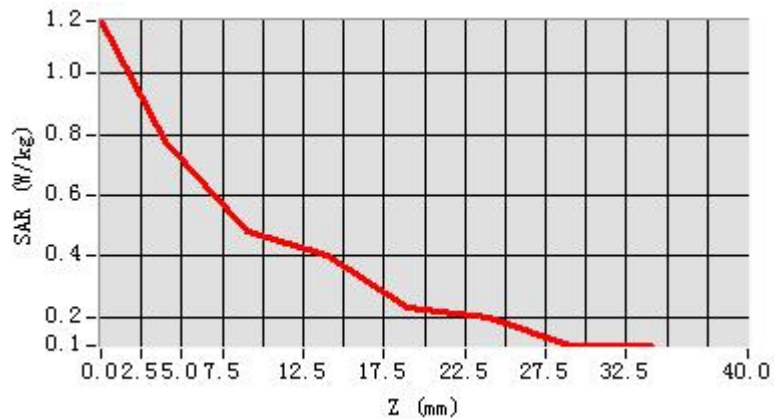
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Maximum location: X=18.00, Y=-10.00

SAR Peak: 1.04 W/kg

SAR 10g (W/Kg)	0.515861
SAR 1g (W/Kg)	0.746861

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.1720	0.7785	0.4833	0.4049	0.2346	0.1969	0.1087



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FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
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Tel: 86-755-36698555

Fax: 86-755-36698525

Http://www.morlab.cn

E-mail: service@morlab.cn

MEASUREMENT 13

Type: Phone measurement (Complete)

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

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

Date of measurement: 2018.07.05

Measurement duration: 20 minutes 11 seconds

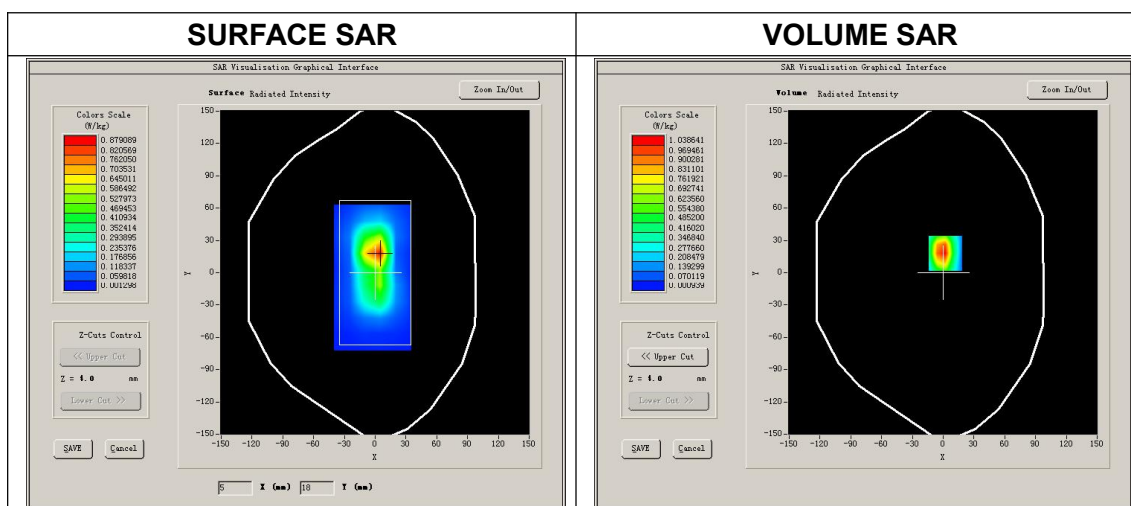
A. Experimental conditions.

<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 41</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Lower Band SAR (Channel 40185):

Frequency (MHz)	2549.500000
Relative permittivity (real part)	52.381564
Conductivity (S/m)	2.100253
Power Drift (%)	1.380000
Ambient Temperature:	22.6°C
Liquid Temperature:	21.4°C
ConvF:	4.93
Crest factor:	1:1



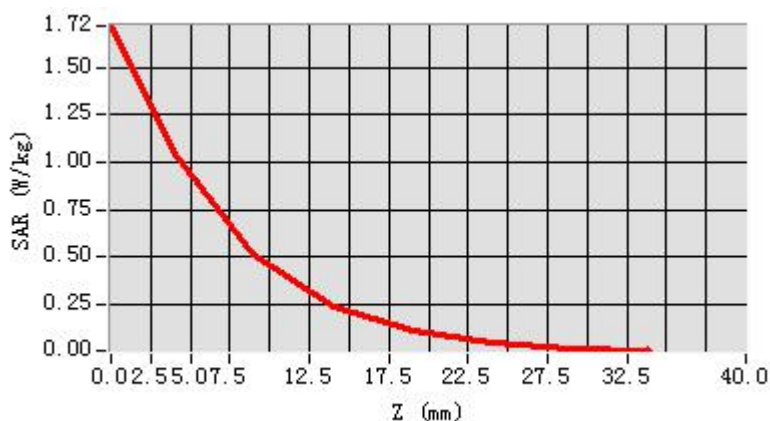
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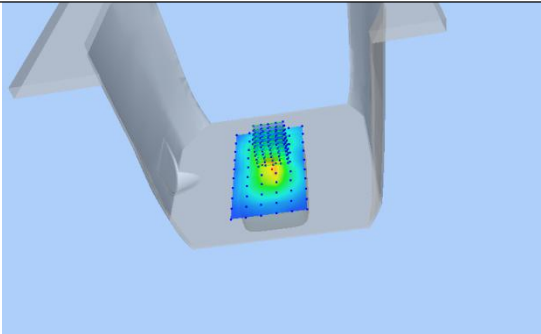
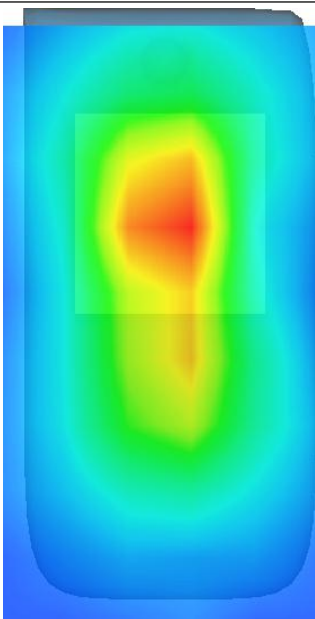
Maximum location: X=2.00, Y=18.00

SAR Peak: 1.82 W/kg

SAR 10g (W/Kg)	0.439984
SAR 1g (W/Kg)	1.001298

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.7193	1.0386	0.5166	0.2406	0.1080	0.0470	0.0174



3D screen shot	Hot spot position
	

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FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn

MEASUREMENT 14

Type: Phone measurement (Complete)

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

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

Date of measurement: 2018.07.02

Measurement duration: 20 minutes 8 seconds

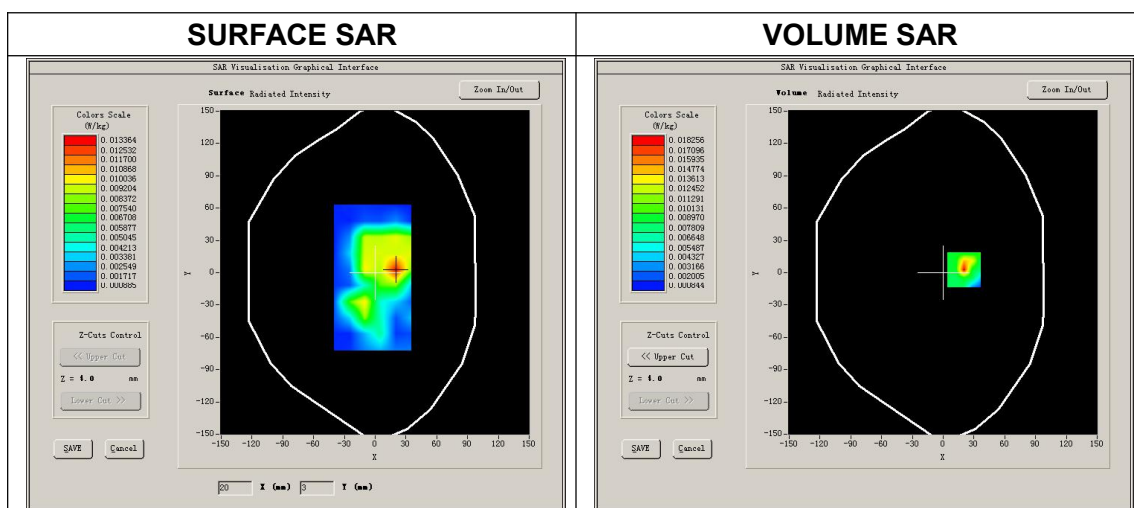
A. Experimental conditions.

<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 802.11b ISM</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>DSSS</u>

B. SAR Measurement Results

Middle Band SAR (Channel 6):

Frequency (MHz)	2437.000000
Relative permittivity (real part)	52.891243
Conductivity (S/m)	1.954147
Power Drift (%)	1.080000
Ambient Temperature:	22.4°C
Liquid Temperature:	21.5°C
ConvF:	4.93
Crest factor:	1:1



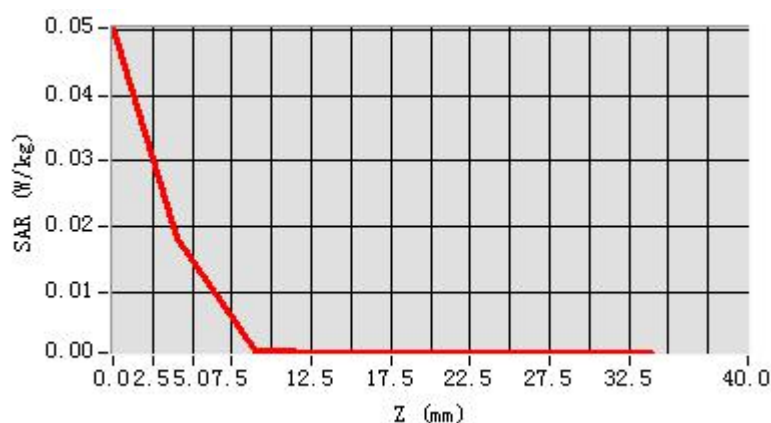
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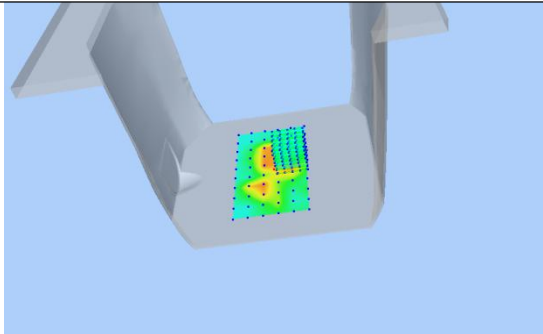
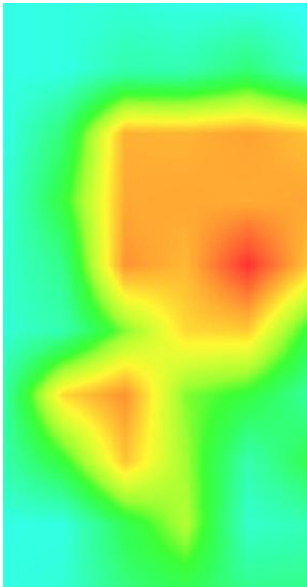
Maximum location: X=20.00, Y=3.00

SAR Peak: 0.045 W/kg

SAR 10g (W/Kg)	0.015167
SAR 1g (W/Kg)	0.030269

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0502	0.0183	0.0012	0.0010	0.0010	0.0010	0.0010



3D screen shot	Hot spot position
	

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