

MEASUREMENT 1

Date of measurement: 2/11/2020

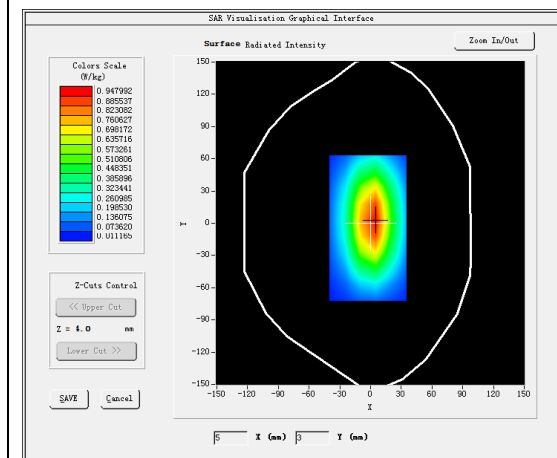
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW750</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

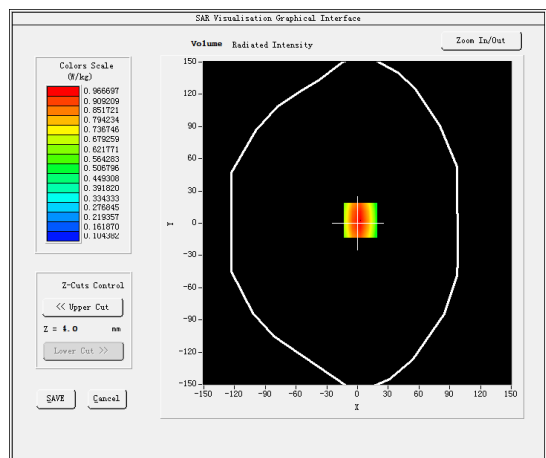
B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative permittivity (real part)	41.873162
Relative permittivity (imaginary part)	21.771263
Conductivity (S/m)	0.910362
Variation (%)	-1.810000

SURFACE SAR



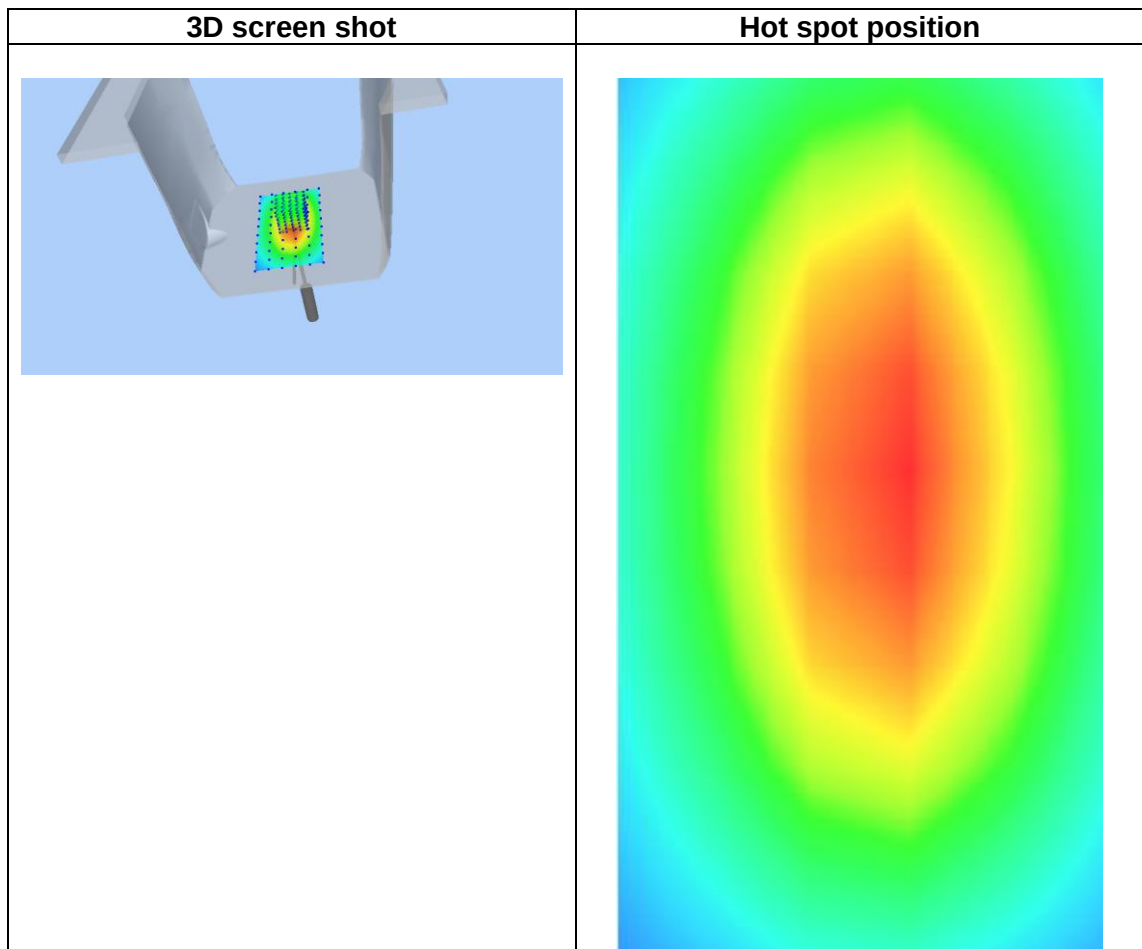
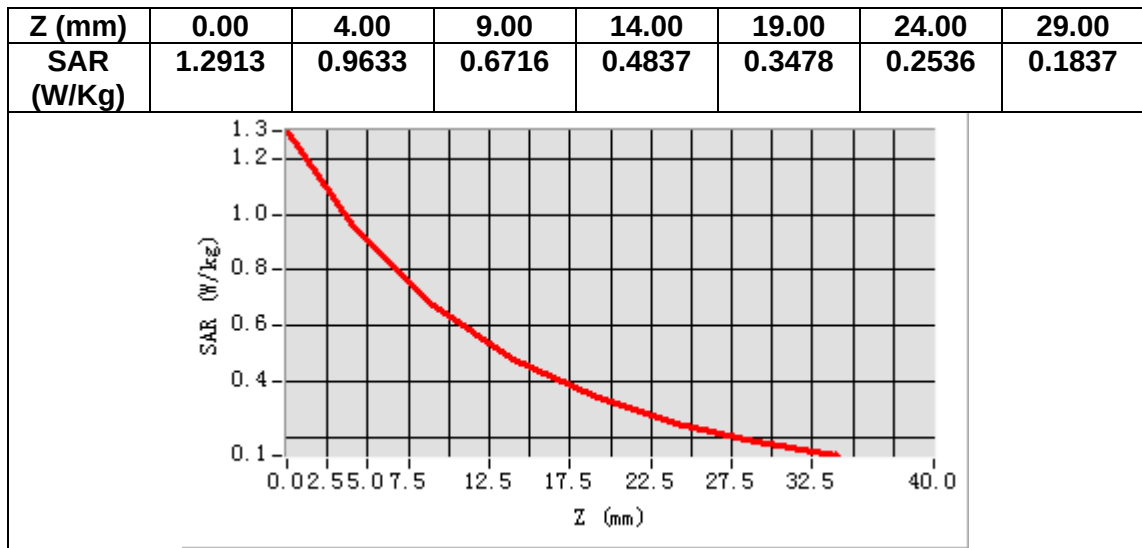
VOLUME SAR



Maximum location: X=3.00, Y=3.00

SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.547218
SAR 1g (W/Kg)	0.854062



MEASUREMENT 2

Date of measurement: 2/11/2020

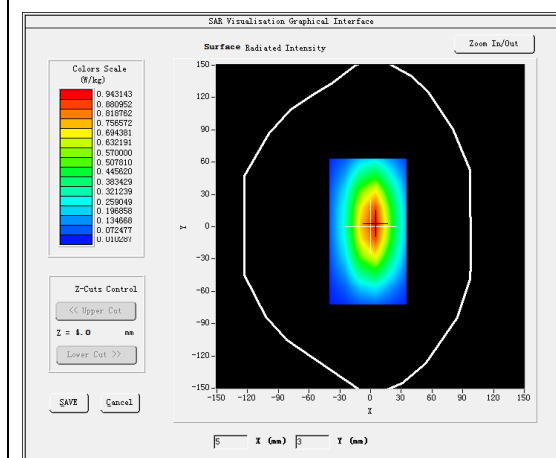
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW750</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

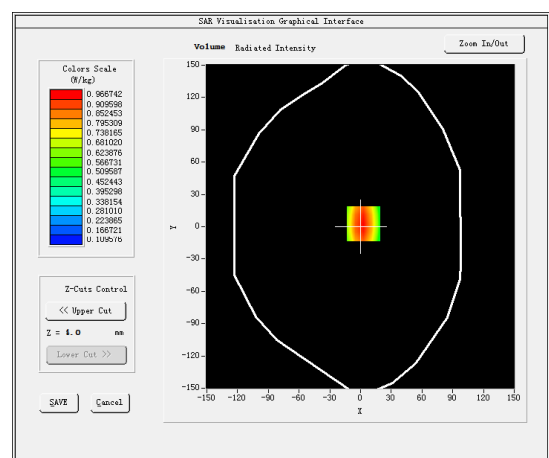
B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative permittivity (real part)	55.600248
Relative permittivity (imaginary part)	23.353842
Conductivity (S/m)	0.970318
Variation (%)	-0.490000

SURFACE SAR



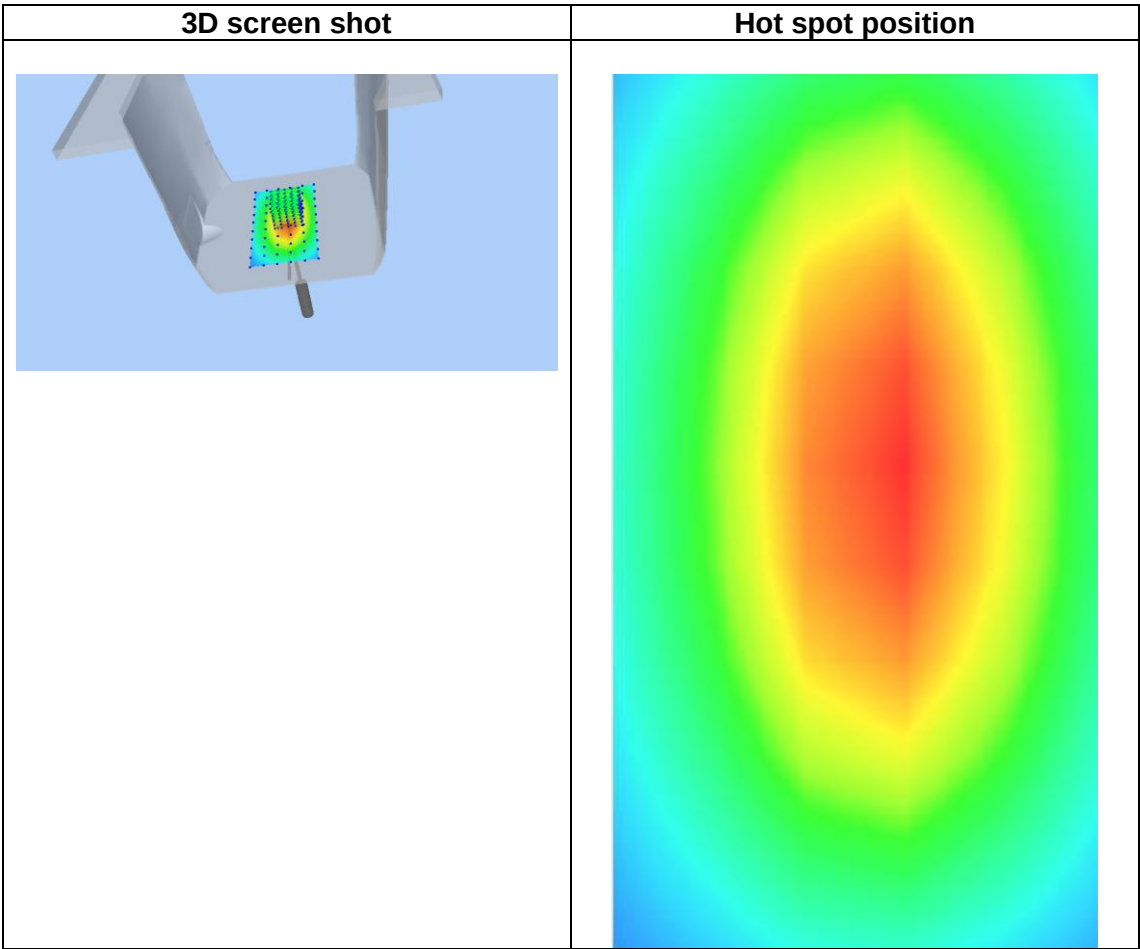
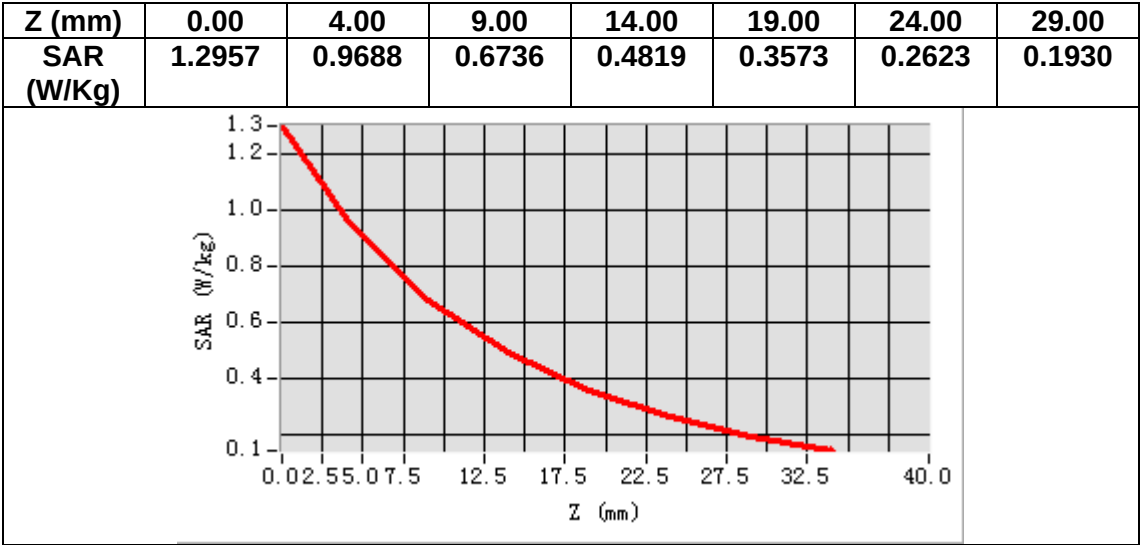
VOLUME SAR



Maximum location: X=3.00, Y=3.00

SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.577281
SAR 1g (W/Kg)	0.827263



MEASUREMENT 3

Date of measurement: 3/11/2020

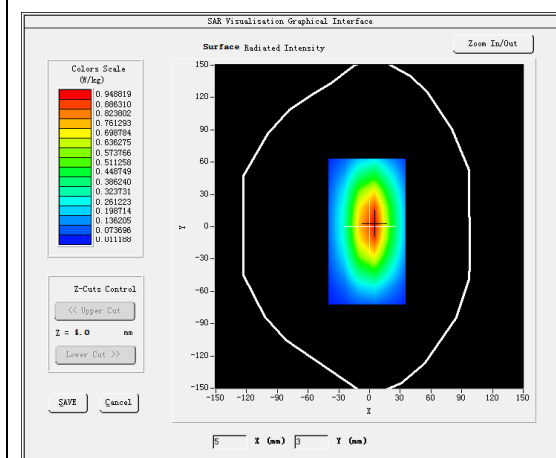
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW835</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

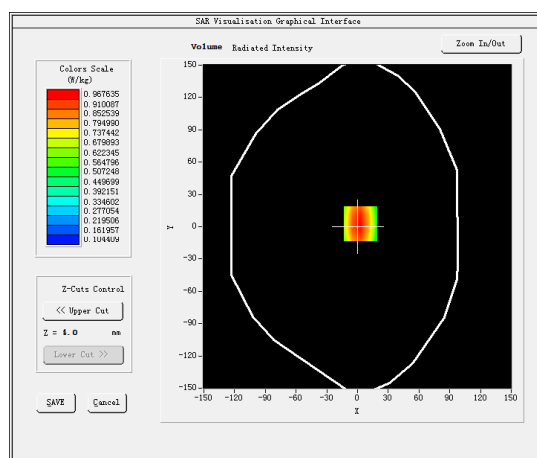
B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	40.933500
Relative permittivity (imaginary part)	19.881602
Conductivity (S/m)	0.920502
Variation (%)	1.870000

SURFACE SAR



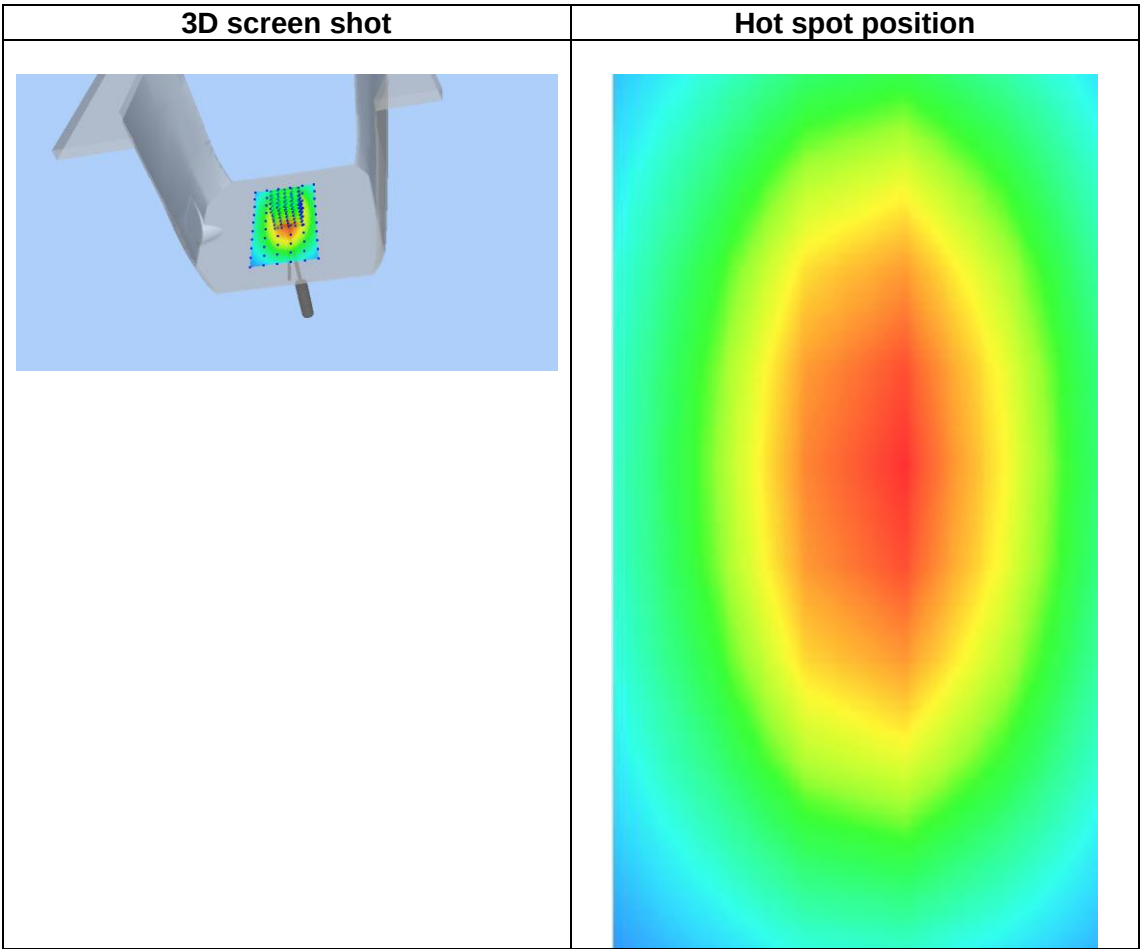
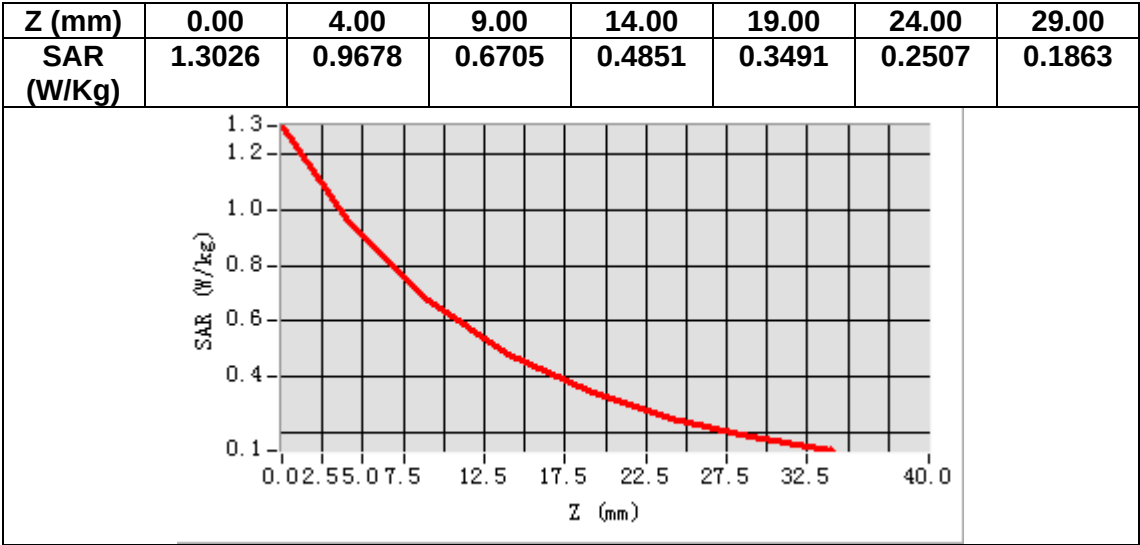
VOLUME SAR



Maximum location: X=3.00, Y=3.00

SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.619433
SAR 1g (W/Kg)	0.980035



MEASUREMENT 4

Date of measurement: 3/11/2020

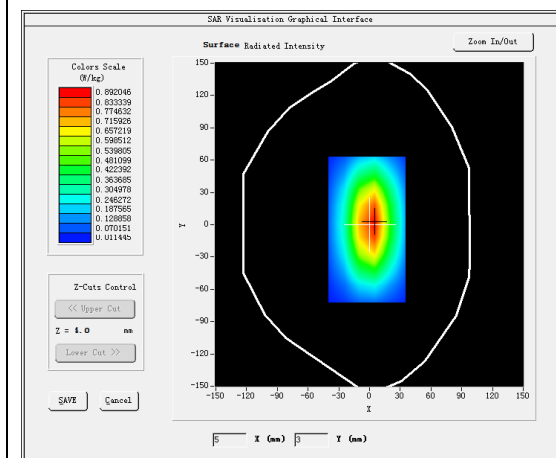
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW835</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

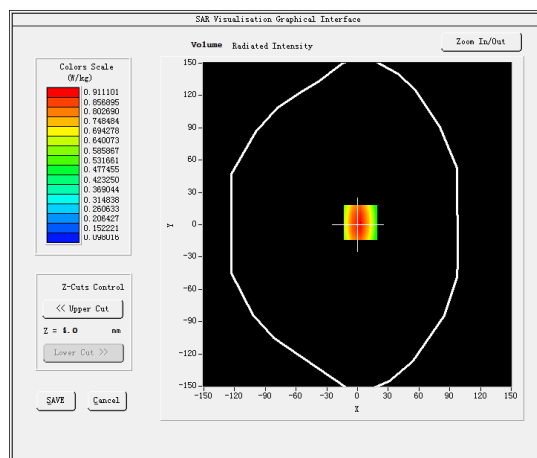
B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	54.661100
Relative permittivity (imaginary part)	21.123459
Conductivity (S/m)	0.980836
Variation (%)	-1.210000

SURFACE SAR



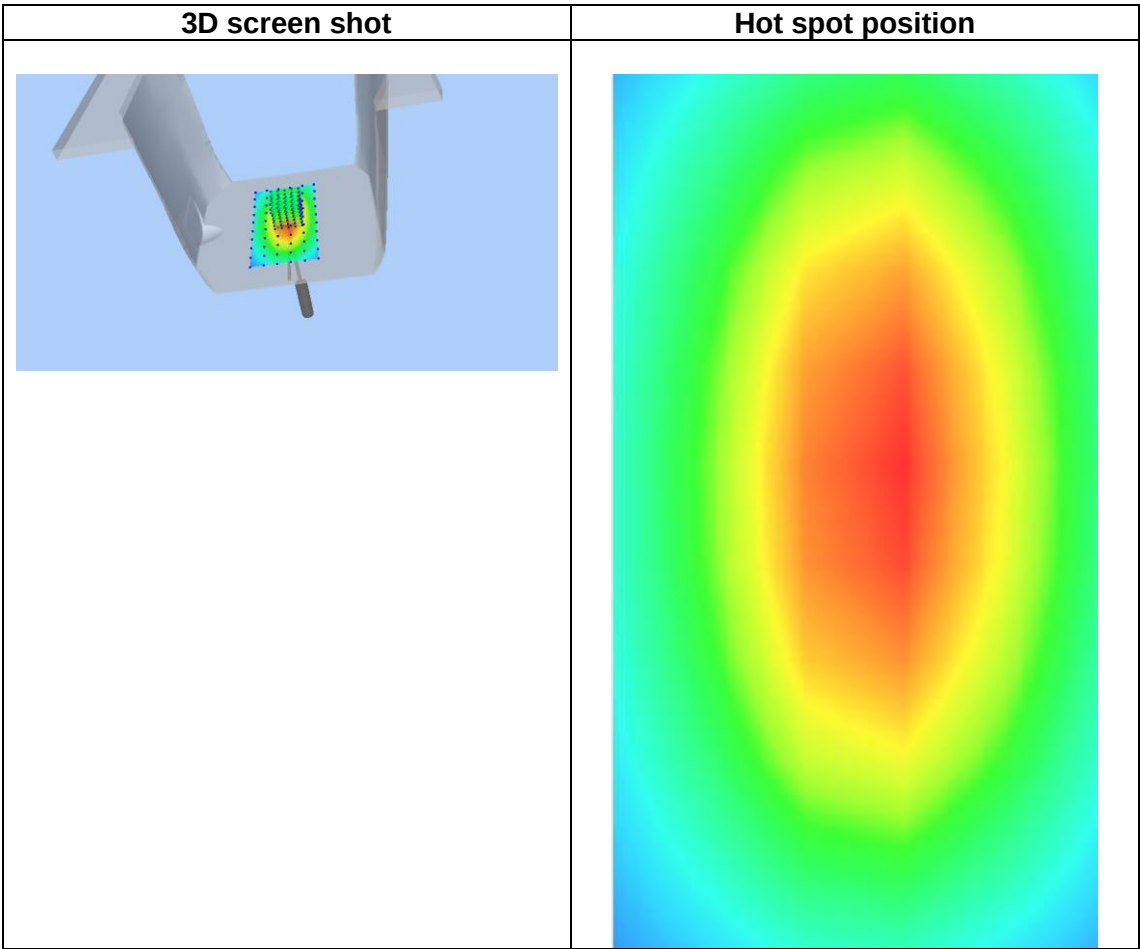
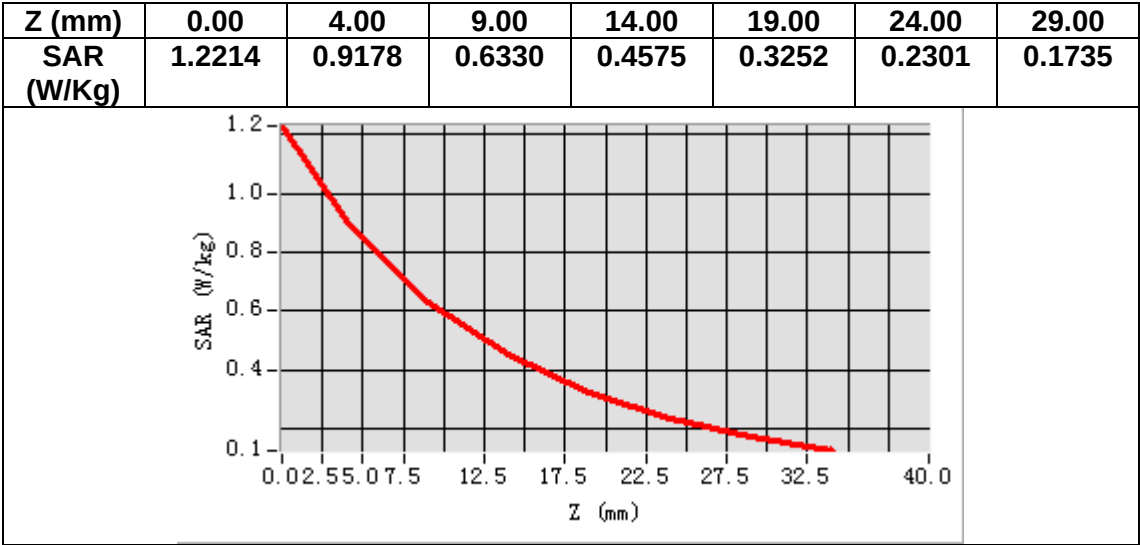
VOLUME SAR



Maximum location: X=3.00, Y=2.00

SAR Peak: 1.23 W/kg

SAR 10g (W/Kg)	0.668023
SAR 1g (W/Kg)	0.965356



MEASUREMENT 5

Date of measurement: 4/11/2020

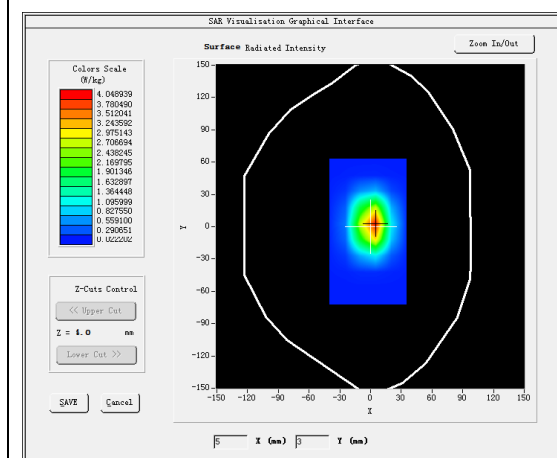
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

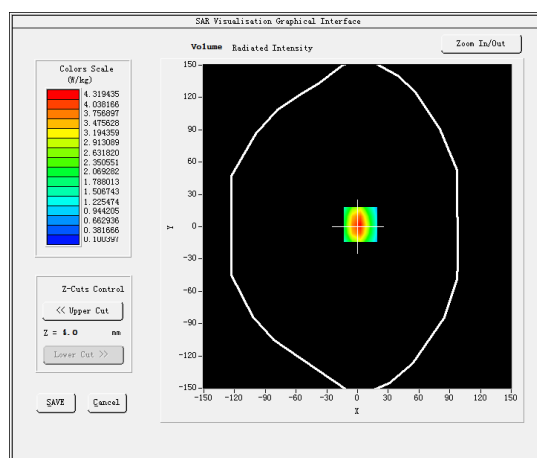
B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative permittivity (real part)	38.791237
Relative permittivity (imaginary part)	13.733229
Conductivity (S/m)	1.370365
Variation (%)	-2.113000

SURFACE SAR



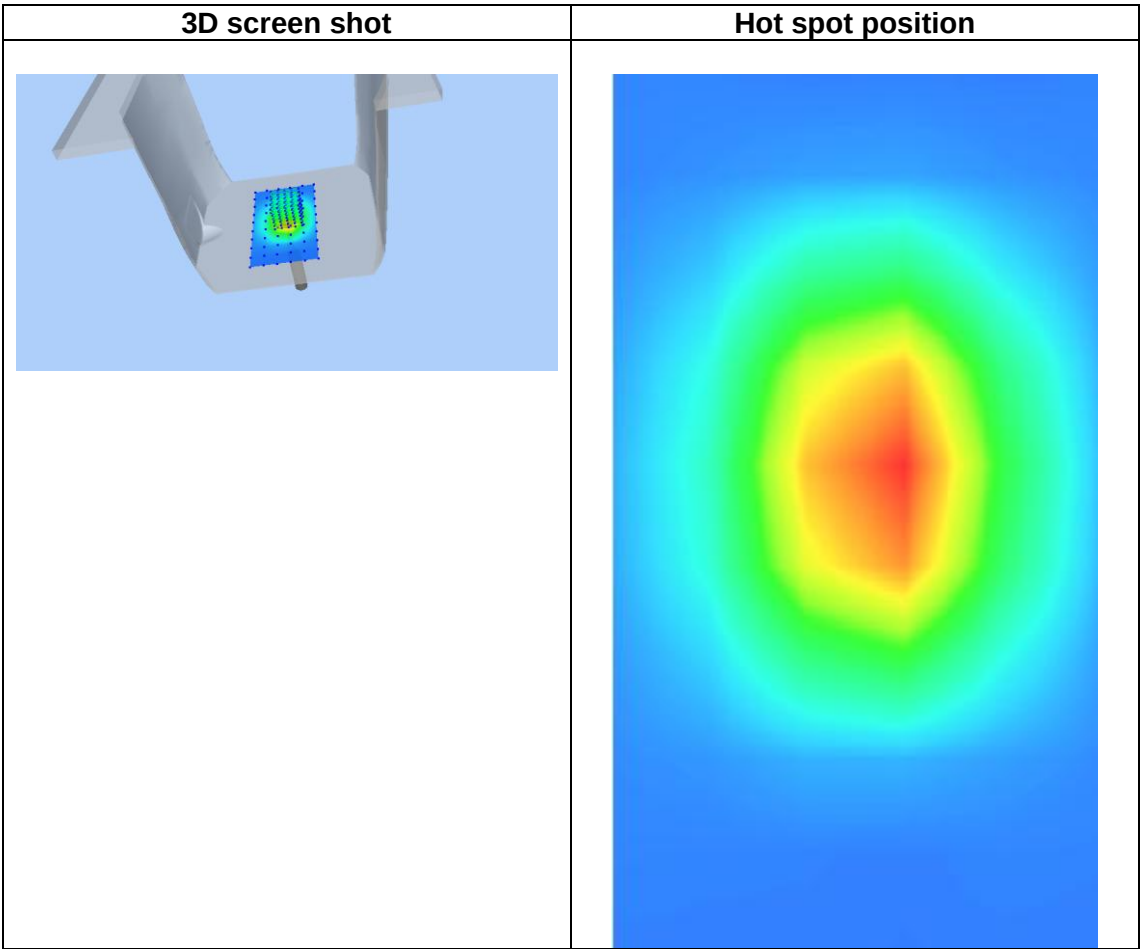
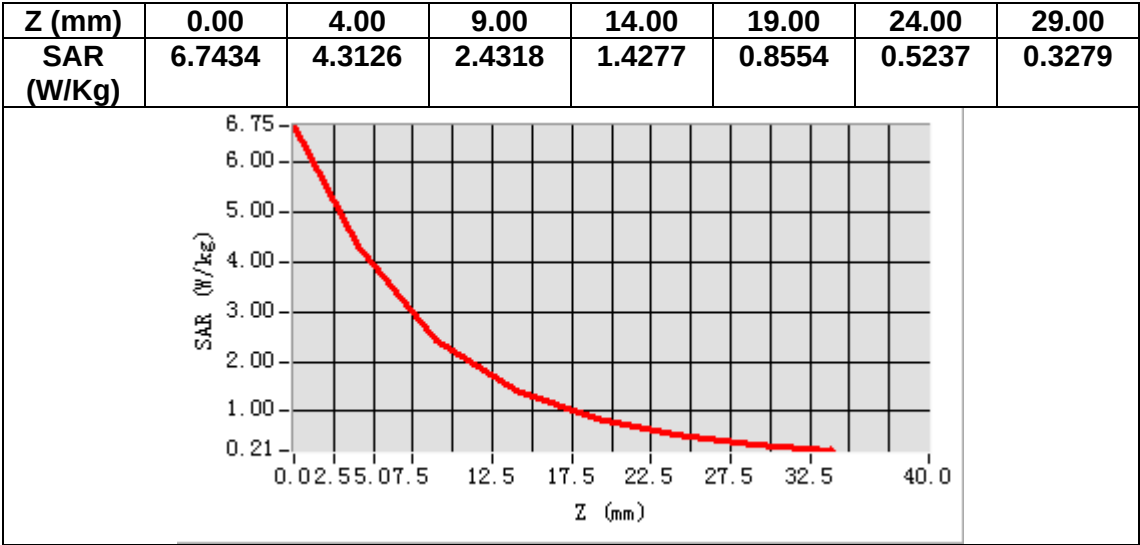
VOLUME SAR



Maximum location: X=3.00, Y=2.00

SAR Peak: 6.82 W/kg

SAR 10g (W/Kg)	1.927397
SAR 1g (W/Kg)	3.670451



MEASUREMENT 6

Date of measurement: 10/11/2020

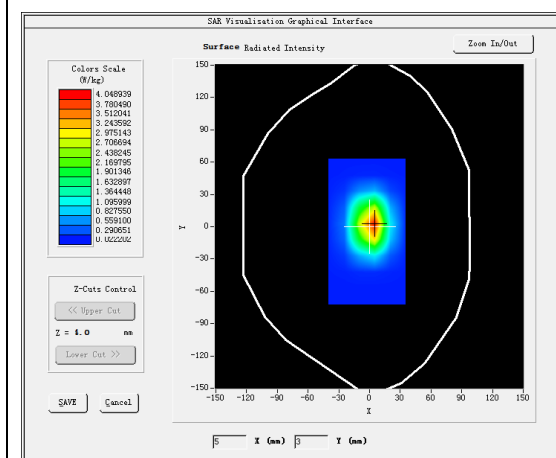
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

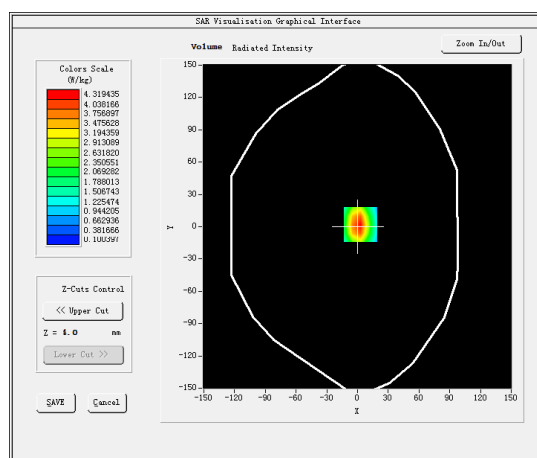
B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative permittivity (real part)	54.183510
Relative permittivity (imaginary part)	15.070016
Conductivity (S/m)	1.513096
Variation (%)	1.510000

SURFACE SAR



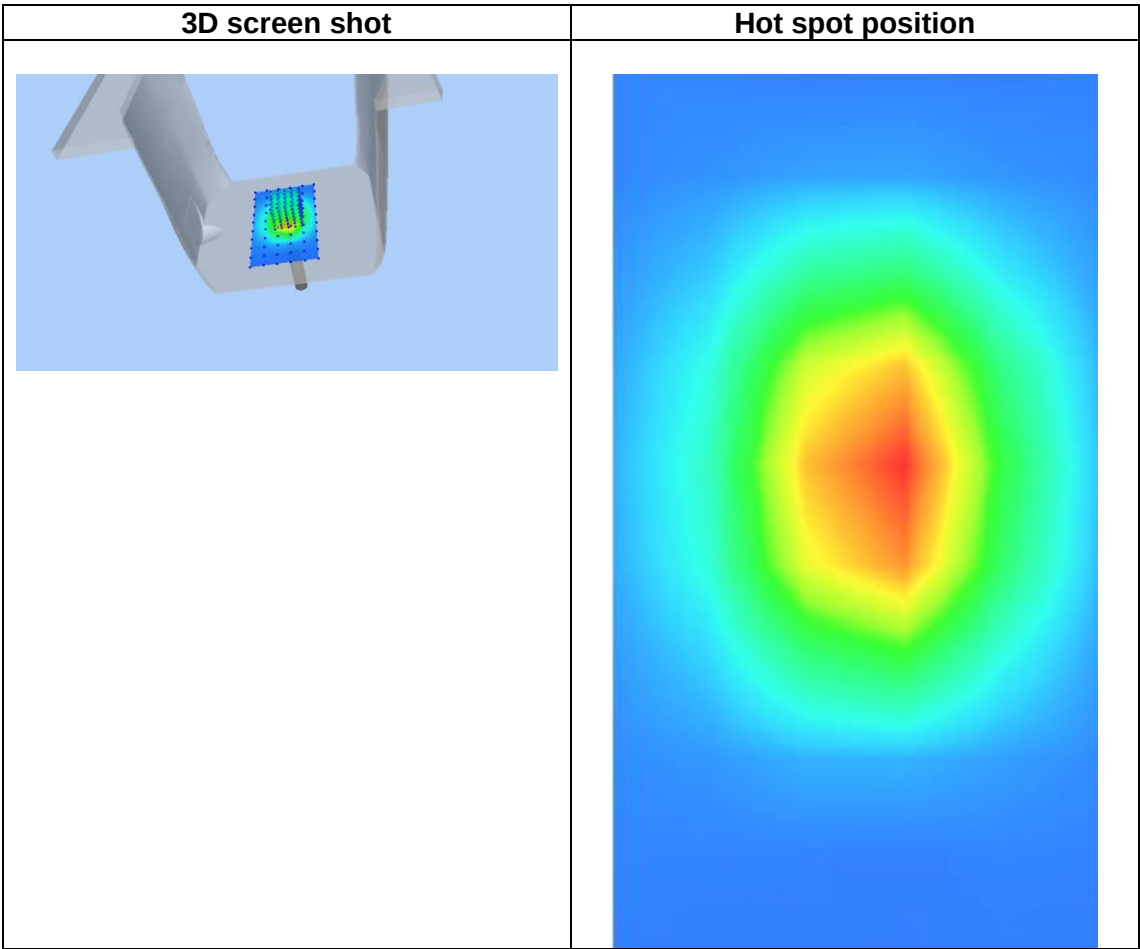
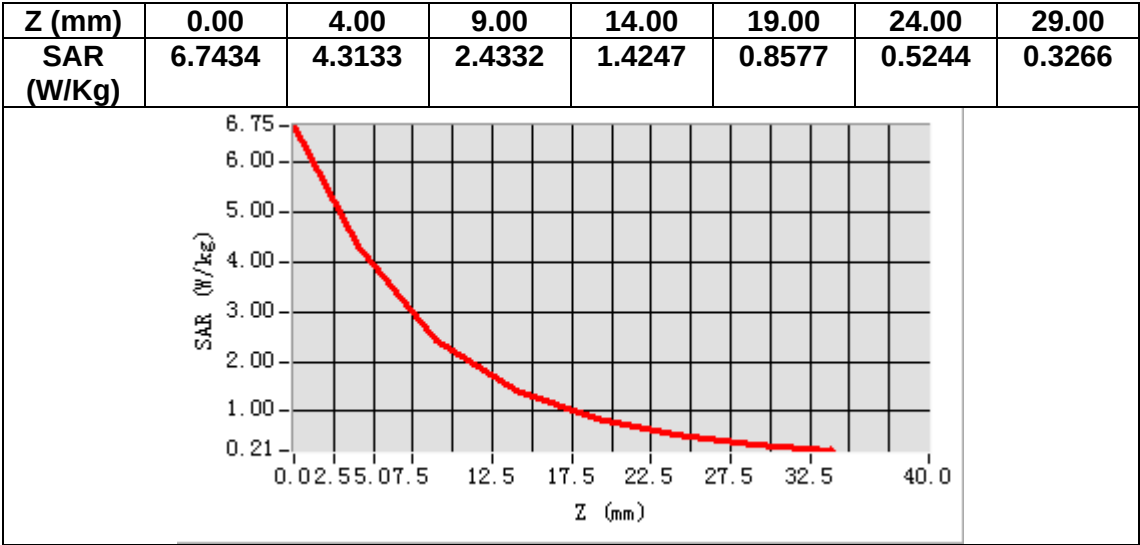
VOLUME SAR



Maximum location: X=3.00, Y=2.00

SAR Peak: 6.82 W/kg

SAR 10g (W/Kg)	2.046239
SAR 1g (W/Kg)	3.950268



MEASUREMENT 7

Date of measurement: 11/11/2020

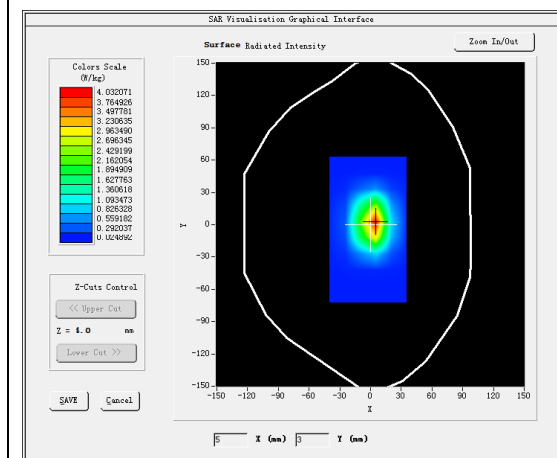
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

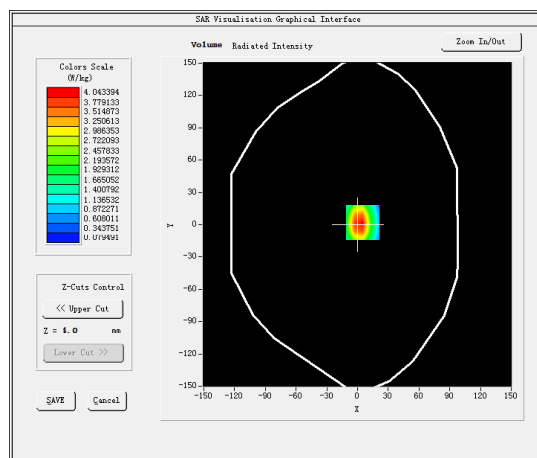
B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative permittivity (real part)	38.821017
Relative permittivity (imaginary part)	13.523006
Conductivity (S/m)	1.430302
Variation (%)	-1.430000

SURFACE SAR



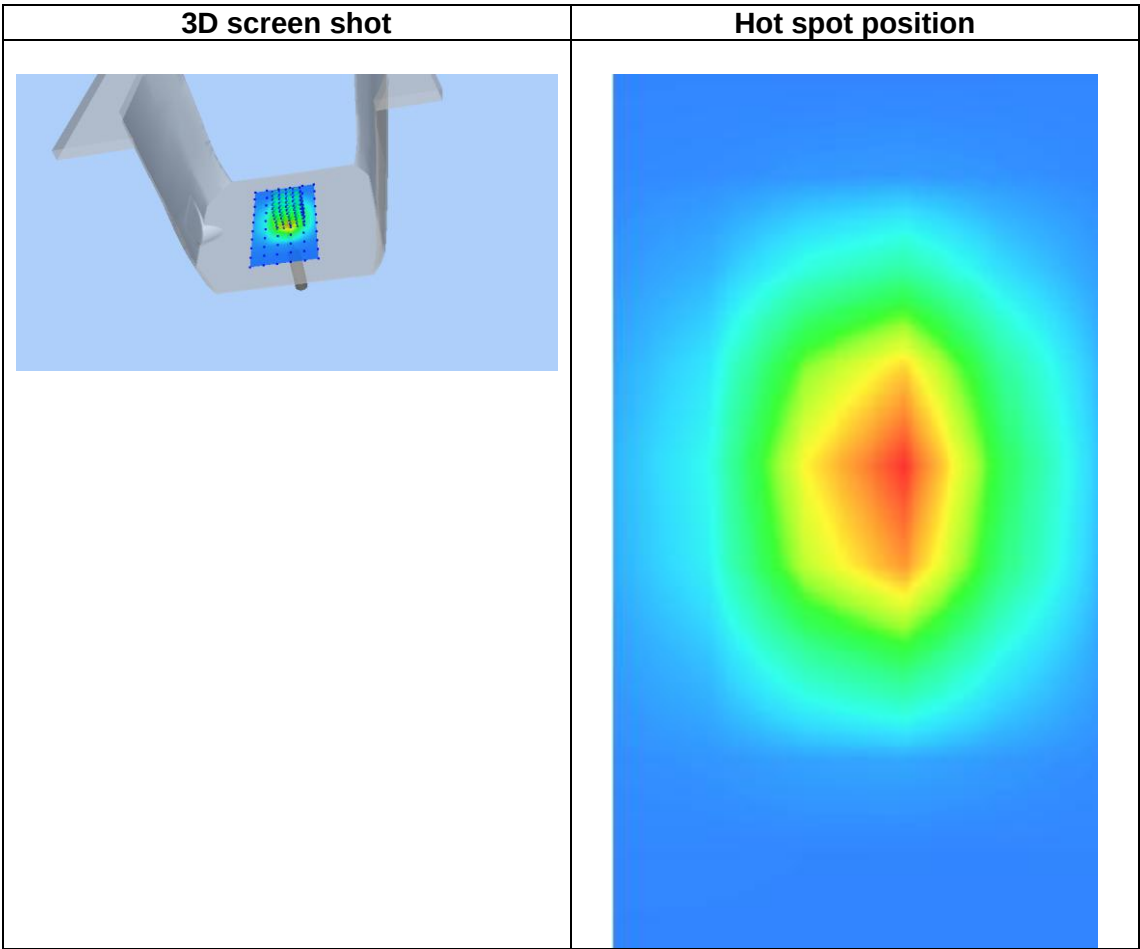
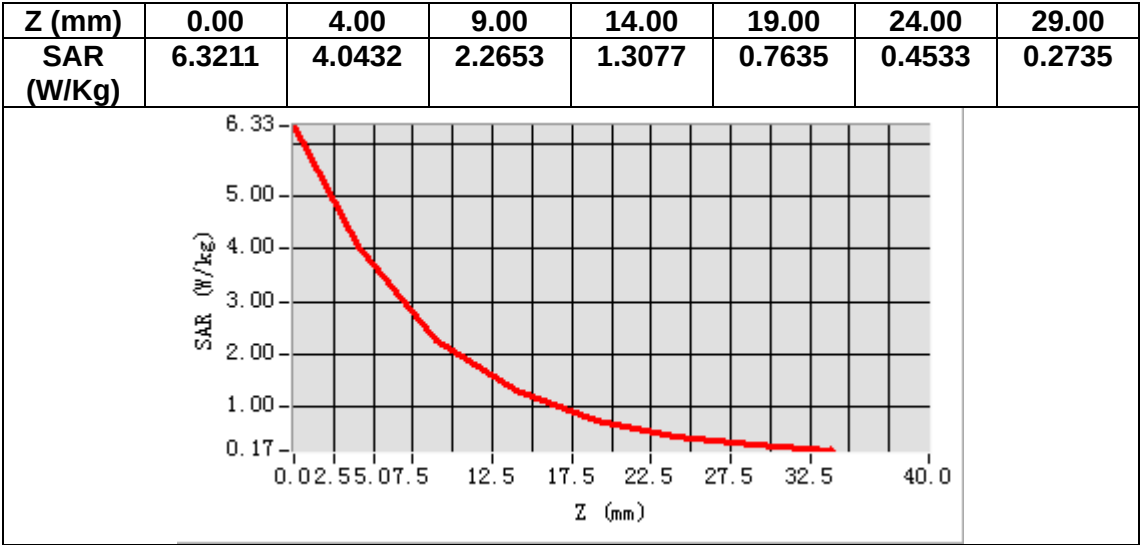
VOLUME SAR



Maximum location: X=5.00, Y=2.00

SAR Peak: 6.70 W/kg

SAR 10g (W/Kg)	1.916452
SAR 1g (W/Kg)	3.949361



MEASUREMENT 8

Date of measurement: 11/11/2020

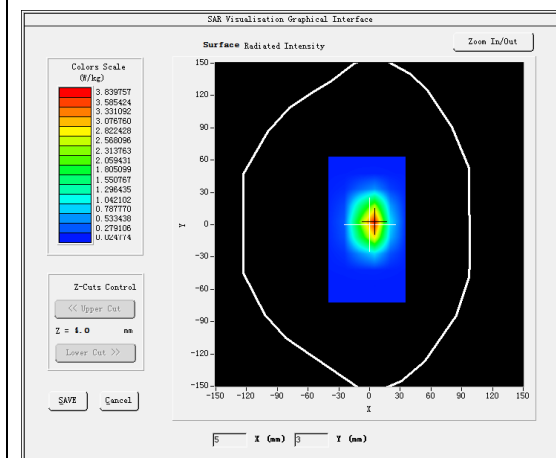
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

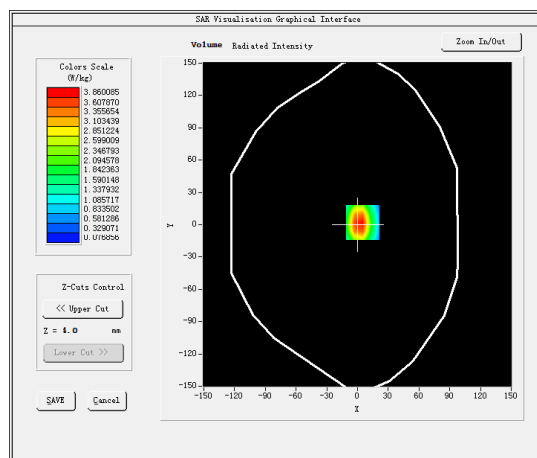
B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative permittivity (real part)	54.390335
Relative permittivity (imaginary part)	14.421803
Conductivity (S/m)	1.520066
Variation (%)	0.120000

SURFACE SAR



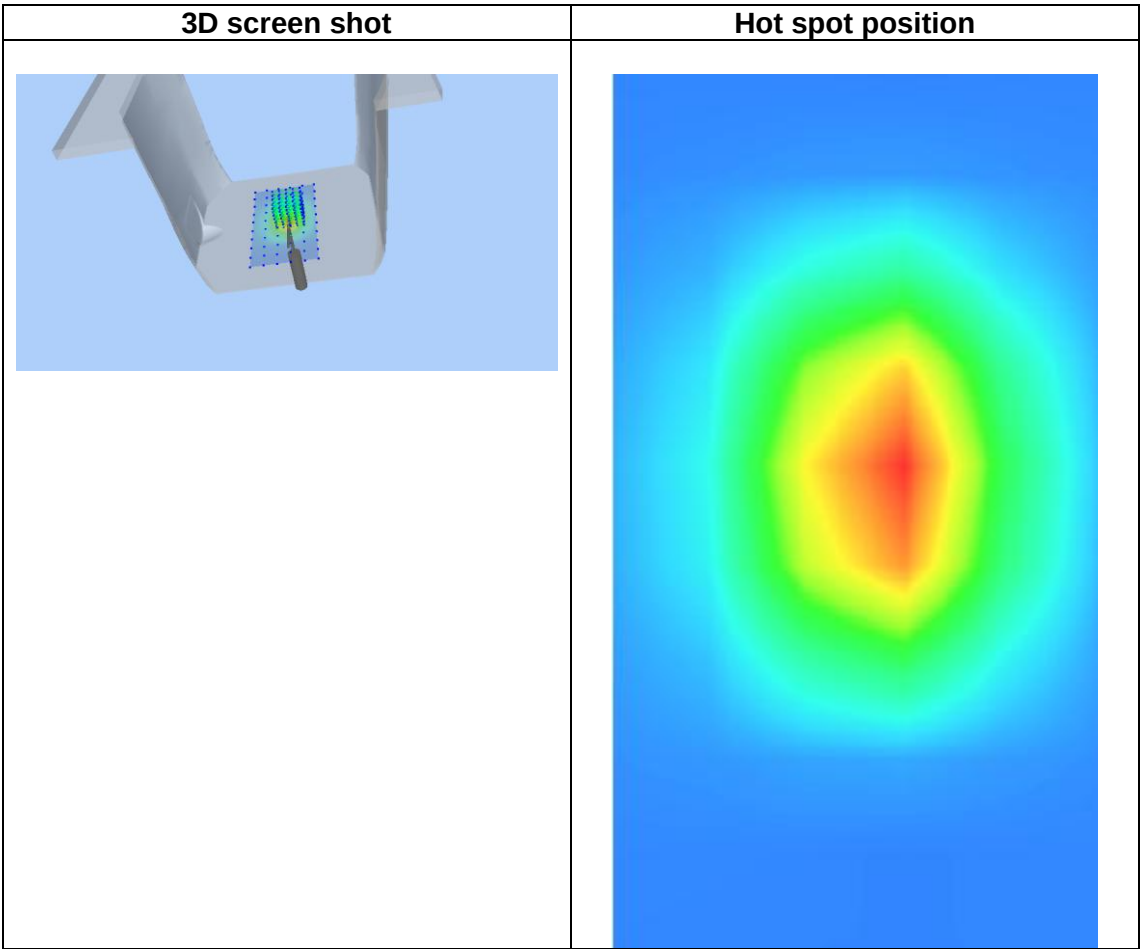
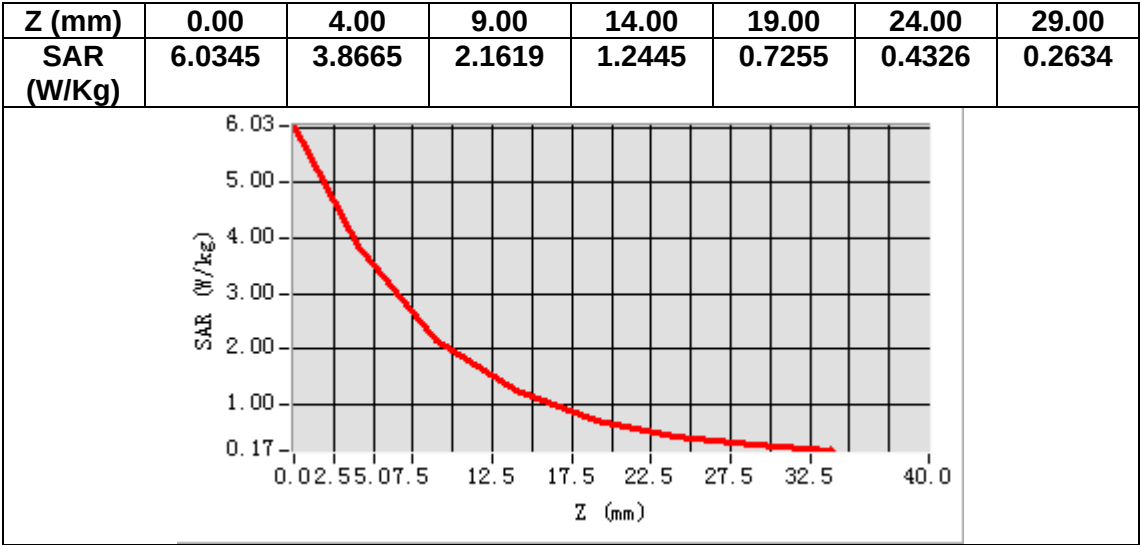
VOLUME SAR



Maximum location: X=5.00, Y=2.00

SAR Peak: 6.39 W/kg

SAR 10g (W/Kg)	2.001329
SAR 1g (W/Kg)	3.805402



MEASUREMENT 9

Date of measurement: 12/11/2020

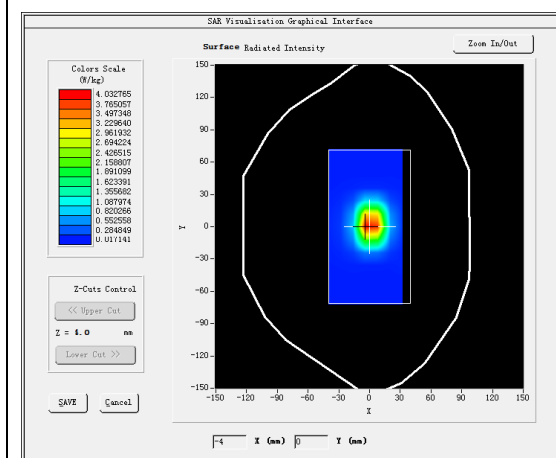
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2450</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

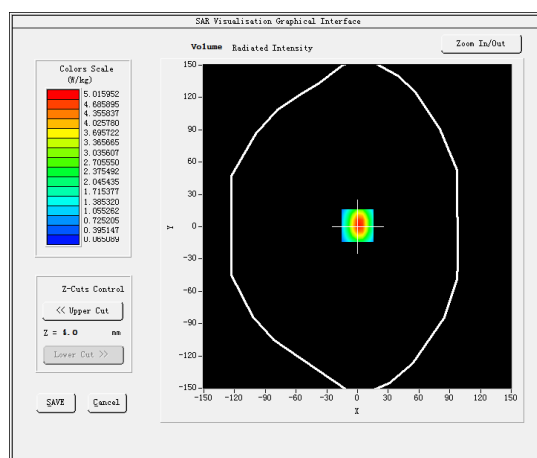
B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	38.710321
Relative permittivity (imaginary part)	13.472631
Conductivity (S/m)	1.830463
Variation (%)	-3.350000

SURFACE SAR



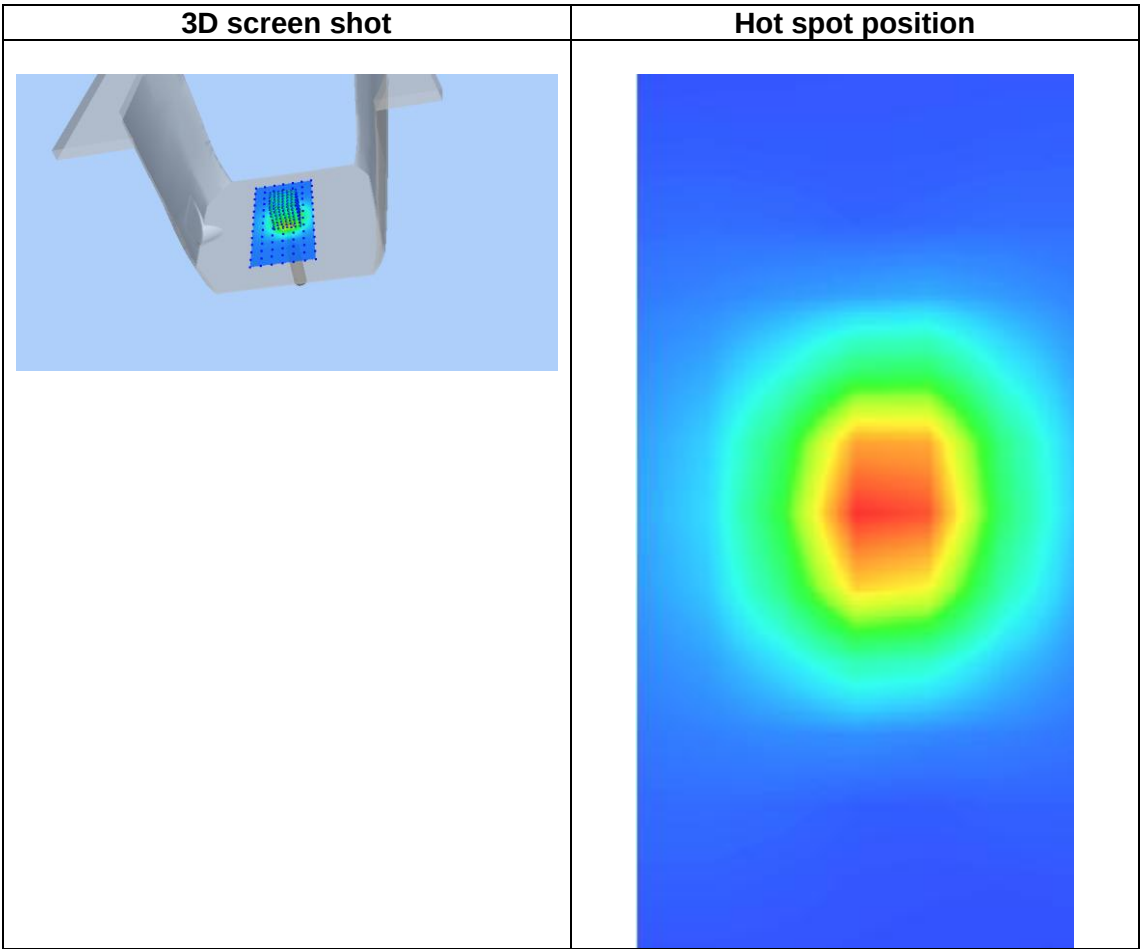
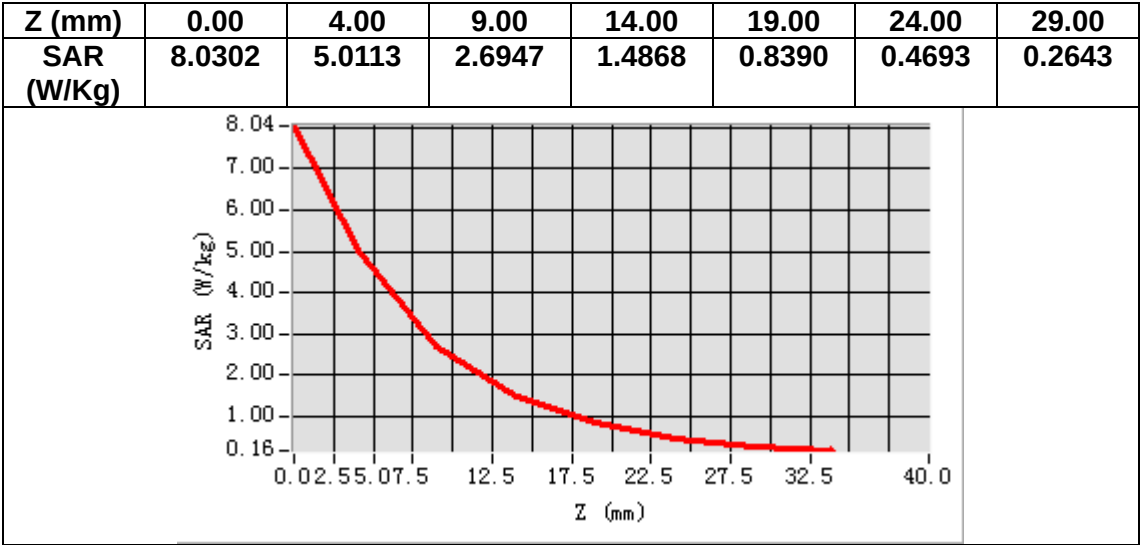
VOLUME SAR



Maximum location: X=0.00, Y=1.00

SAR Peak: 8.14 W/kg

SAR 10g (W/Kg)	2.442175
SAR 1g (W/Kg)	5.451435



MEASUREMENT 10

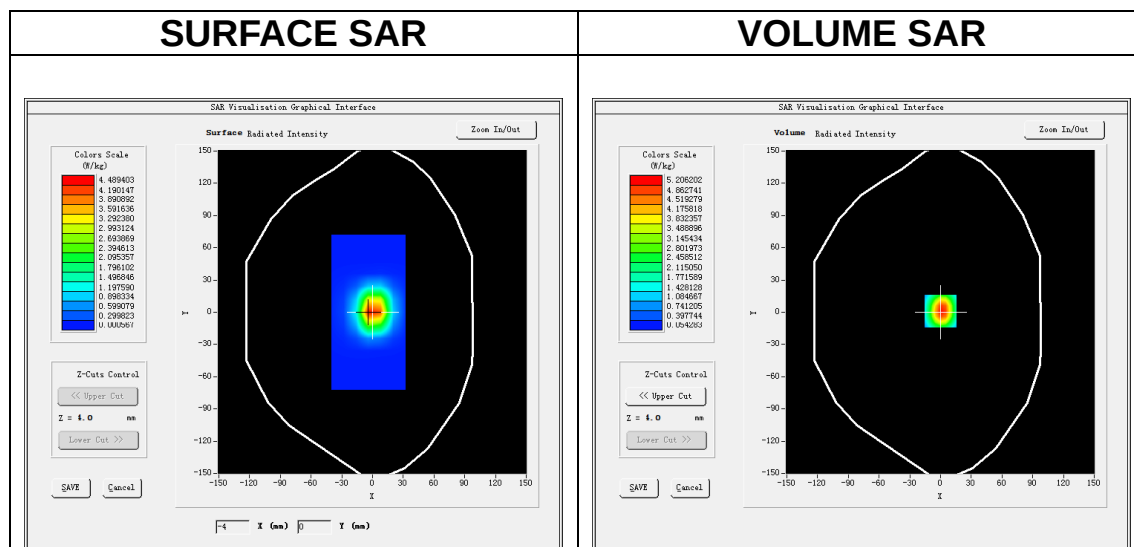
Date of measurement: 12/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2450</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

B. SAR Measurement Results

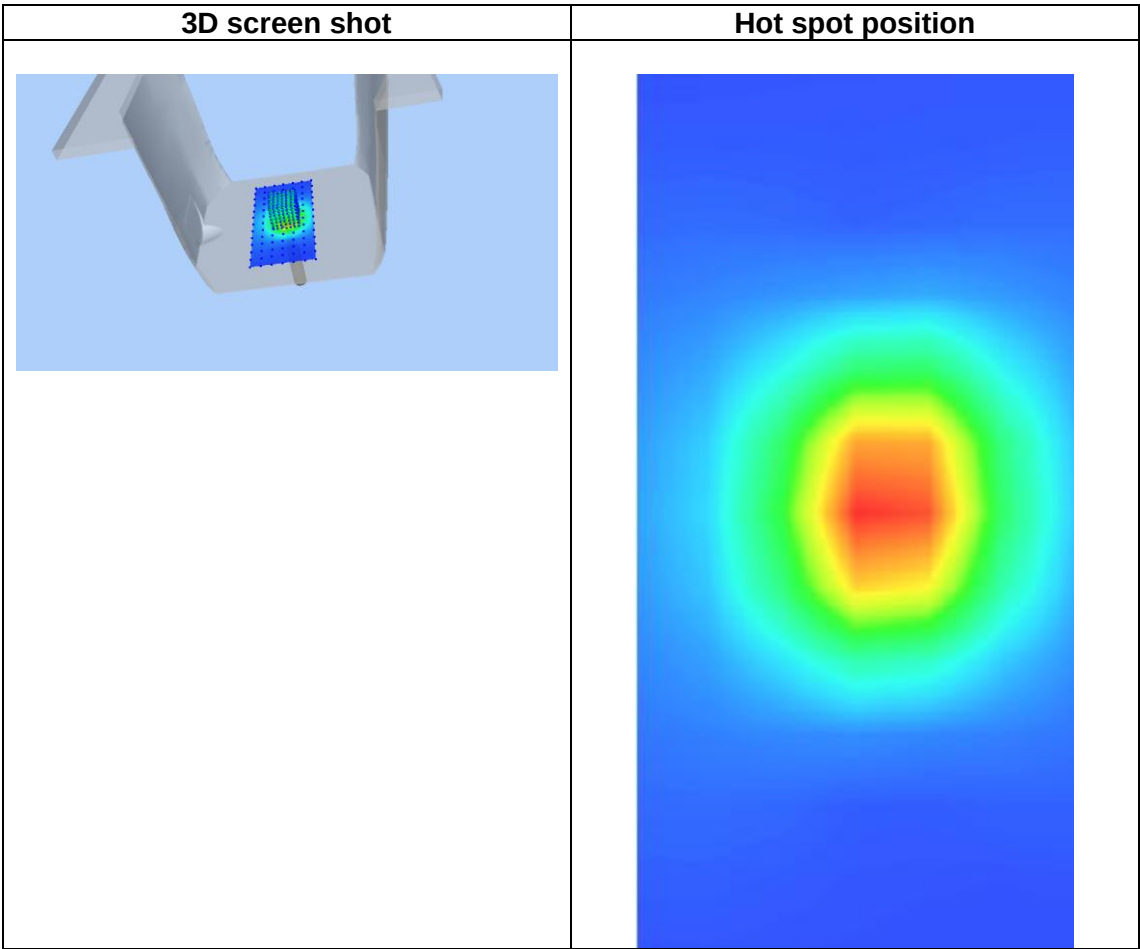
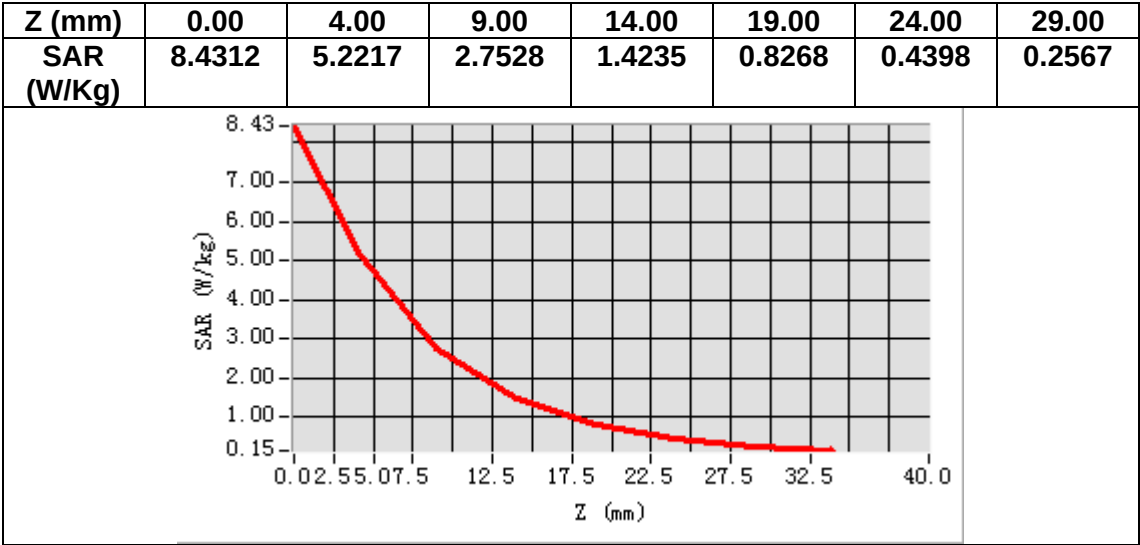
Frequency (MHz)	2450.000000
Relative permittivity (real part)	51.671697
Relative permittivity (imaginary part)	13.793566
Conductivity (S/m)	1.882816
Variation (%)	0.420000



Maximum location: X=0.00, Y=1.00

SAR Peak: 8.46 W/kg

SAR 10g (W/Kg)	2.312285
SAR 1g (W/Kg)	5.141270



MEASUREMENT 11

Date of measurement: 5/11/2020

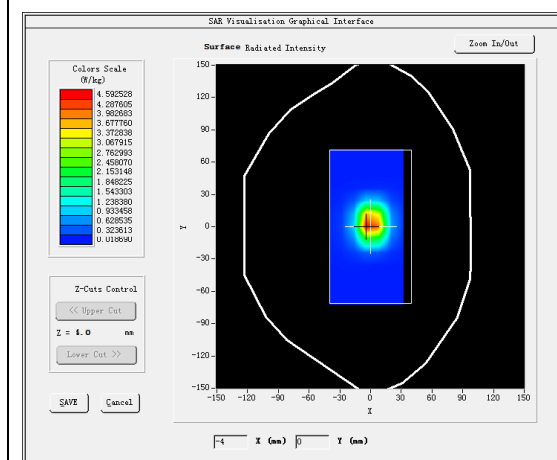
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2600</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

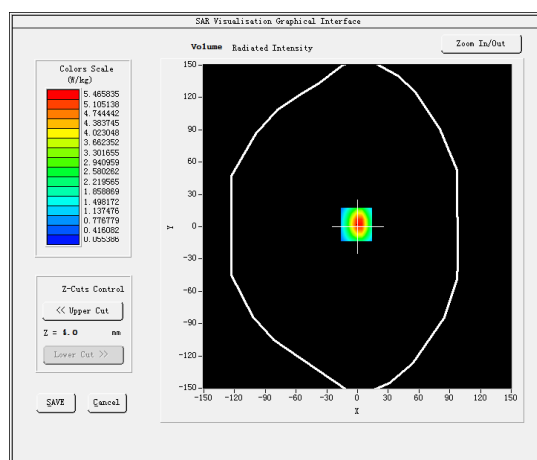
B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative permittivity (real part)	38.262638
Relative permittivity (imaginary part)	13.933997
Conductivity (S/m)	2.013631
Variation (%)	-0.040000

SURFACE SAR



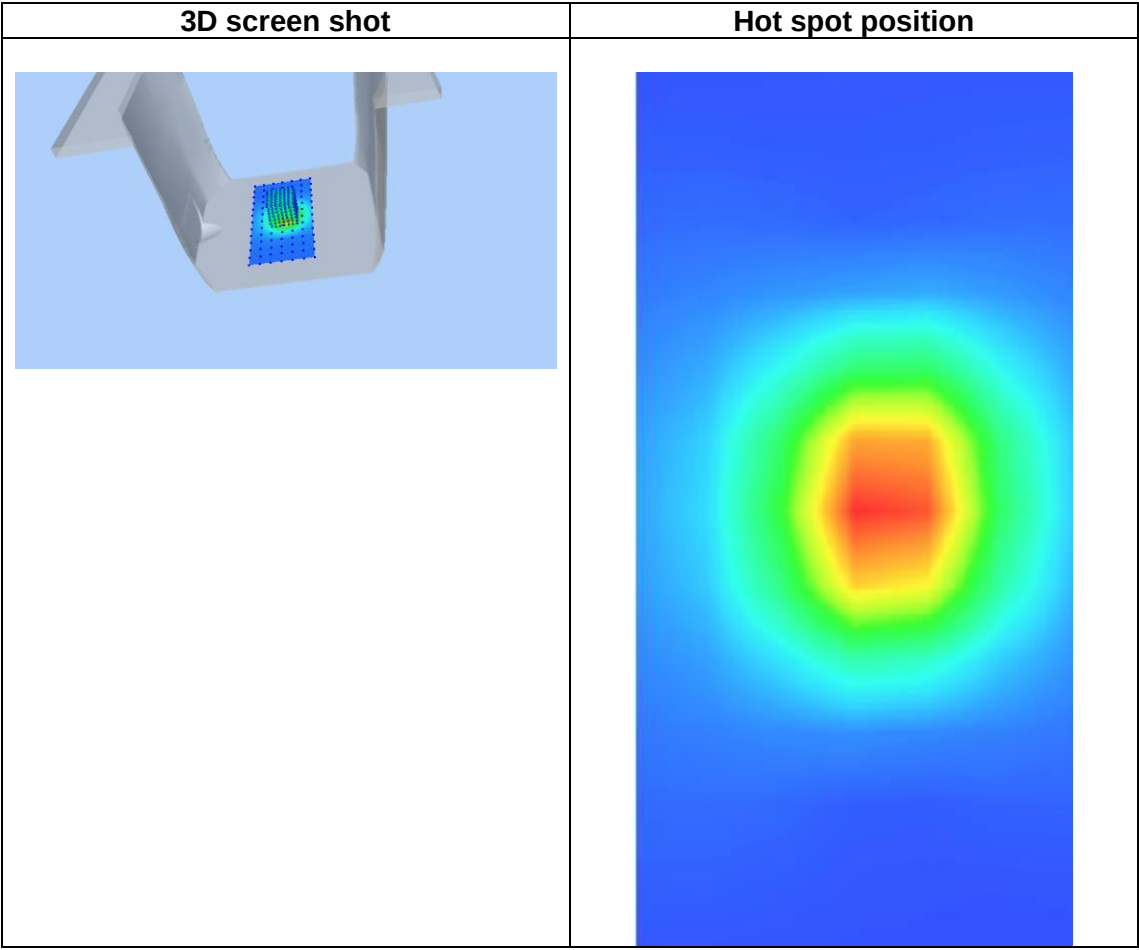
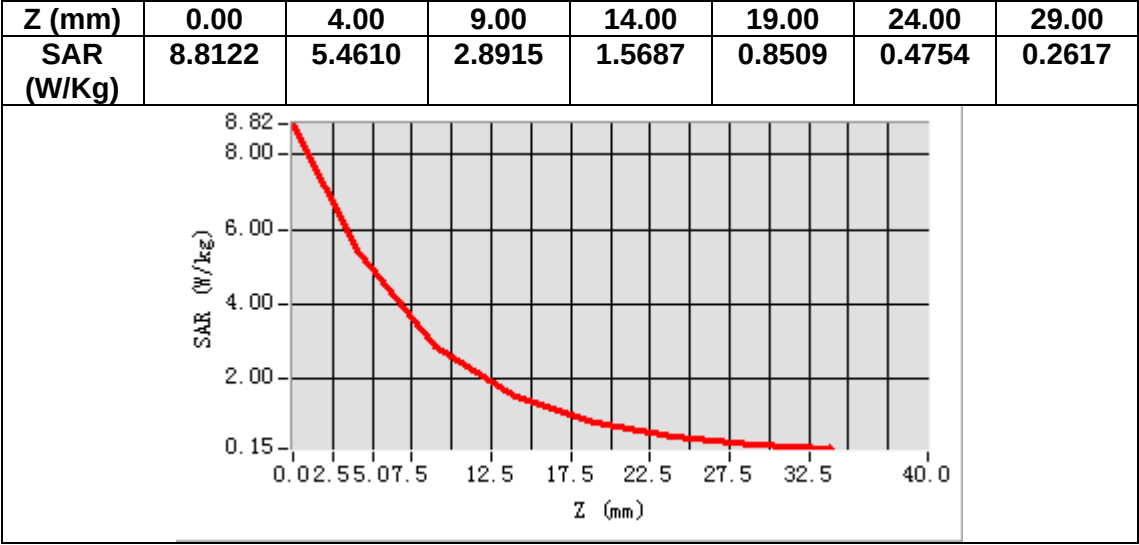
VOLUME SAR



Maximum location: X=-1.00, Y=2.00

SAR Peak: 9.07 W/kg

SAR 10g (W/Kg)	2.446031
SAR 1g (W/Kg)	5.300267



MEASUREMENT 12

Date of measurement: 7/11/2020

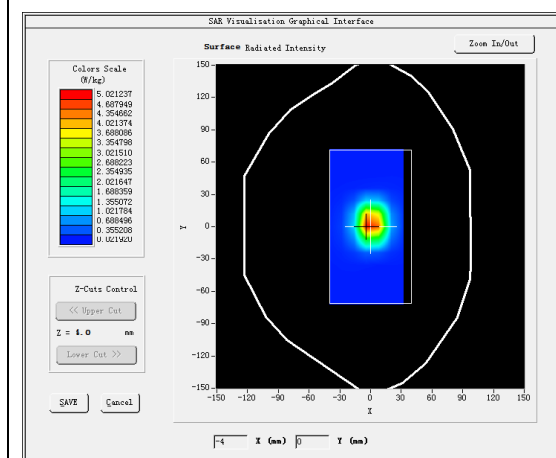
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2600</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

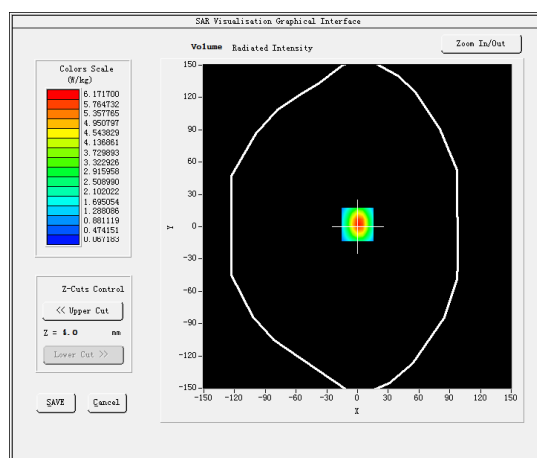
B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative permittivity (real part)	52.910066
Relative permittivity (imaginary part)	15.310637
Conductivity (S/m)	2.213465
Variation (%)	-1.220000

SURFACE SAR



VOLUME SAR

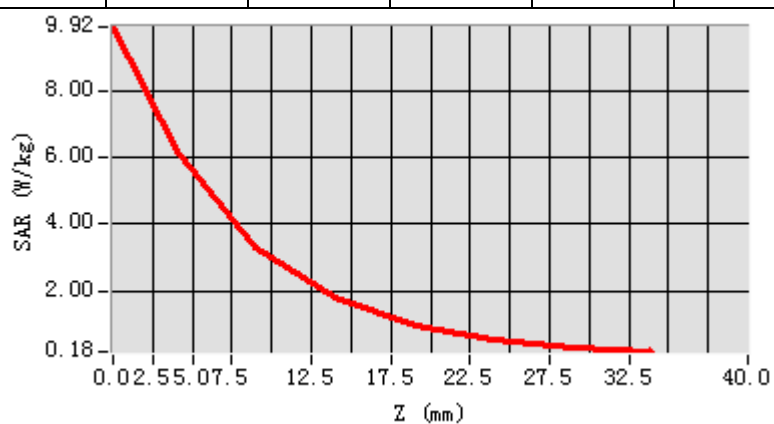


Maximum location: X=0.00, Y=2.00

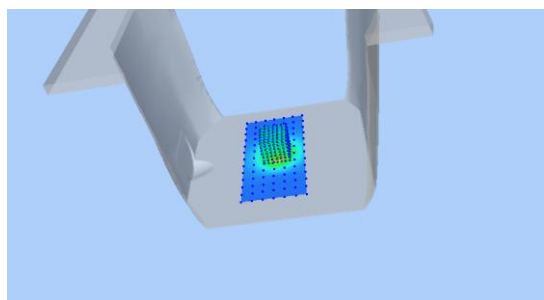
SAR Peak: 9.99 W/kg

SAR 10g (W/Kg)	2.342324
SAR 1g (W/Kg)	5.603188

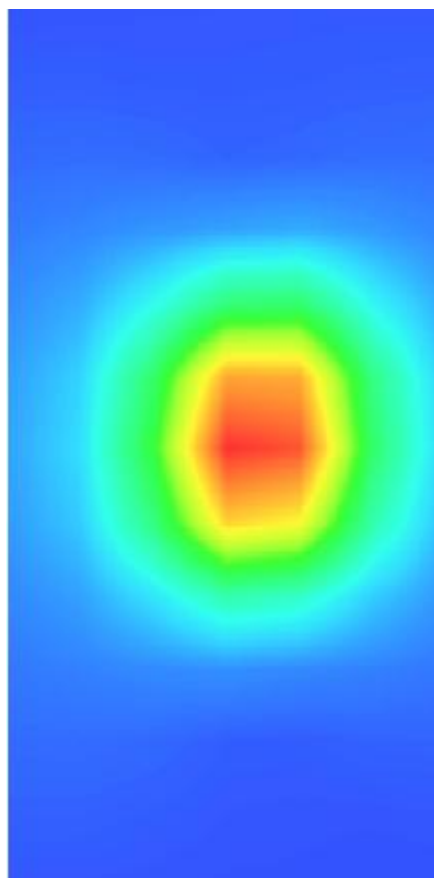
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.9118	6.1777	3.2952	1.7819	0.9818	0.5452	0.3128



3D screen shot



Hot spot position



13. Appendix C. Plots of High SAR Measurement

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MEASUREMENT 3 GSM 1900 Head
MEASUREMENT 4 GSM 1900 Body
MEASUREMENT 5 WCDMA Band 2 Head
MEASUREMENT 6 WCDMA Band 2 Body
MEASUREMENT 7 WCDMA Band 4 Head
MEASUREMENT 8 WCDMA Band 4 Body
MEASUREMENT 9 WCDMA Band 5 Head
MEASUREMENT 10 WCDMA Band 5 Body
MEASUREMENT 11 WLAN 2.4G Head
MEASUREMENT 12 WLAN 2.4G Body
MEASUREMENT 13 LTE Band 2 Head
MEASUREMENT 14 LTE Band 2 Body
MEASUREMENT 15 LTE Band 4 Head
MEASUREMENT 16 LTE Band 4 Body
MEASUREMENT 17 LTE Band 5 Head
MEASUREMENT 18 LTE Band 5 Body
MEASUREMENT 19 LTE Band 7 Head
MEASUREMENT 20 LTE Band 7 Body
MEASUREMENT 21 LTE Band 12 Head
MEASUREMENT 22 LTE Band 12 Body
MEASUREMENT 23 LTE Band 13 Head
MEASUREMENT 24 LTE Band 13 Body
MEASUREMENT 25 LTE Band 17 Head
MEASUREMENT 26 LTE Band 17 Body
MEASUREMENT 27 LTE Band 66 Head
MEASUREMENT 28 LTE Band 66 Body

MEASUREMENT 1

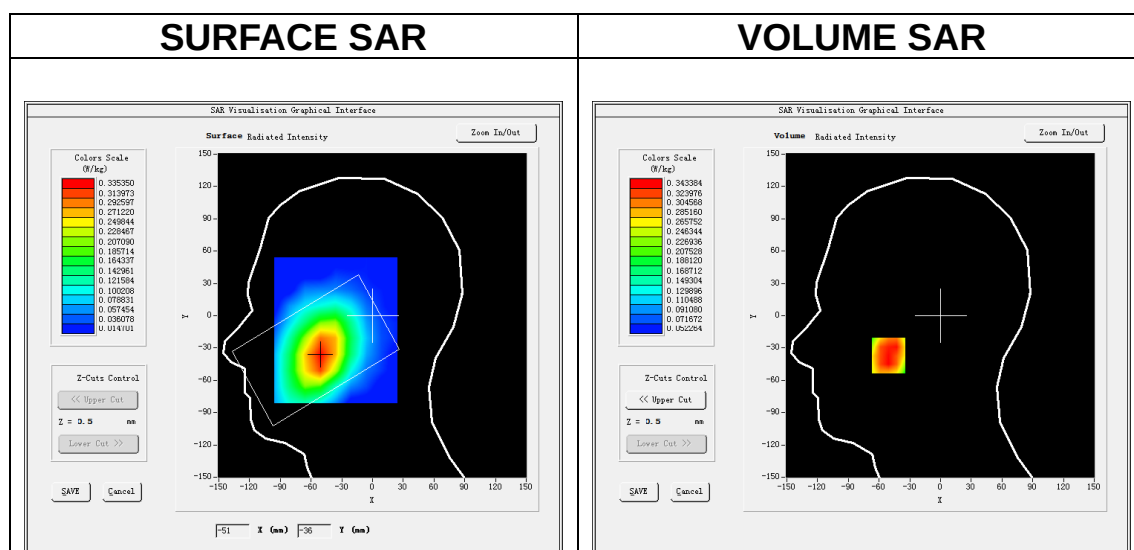
Date of measurement: 3/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 4.0)</u>

B. SAR Measurement Results

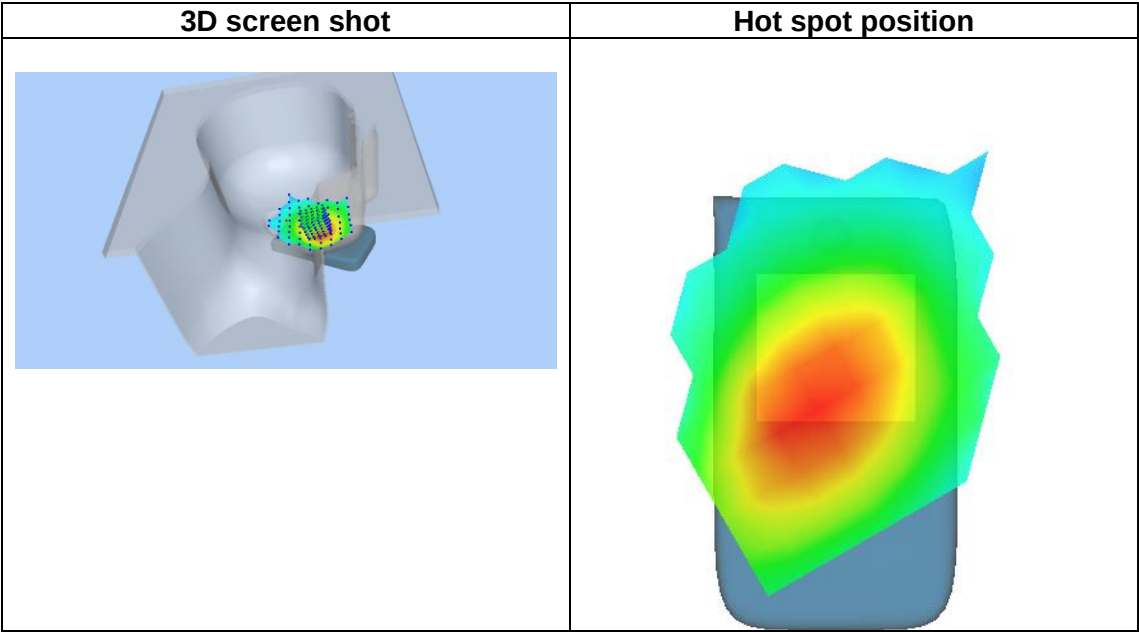
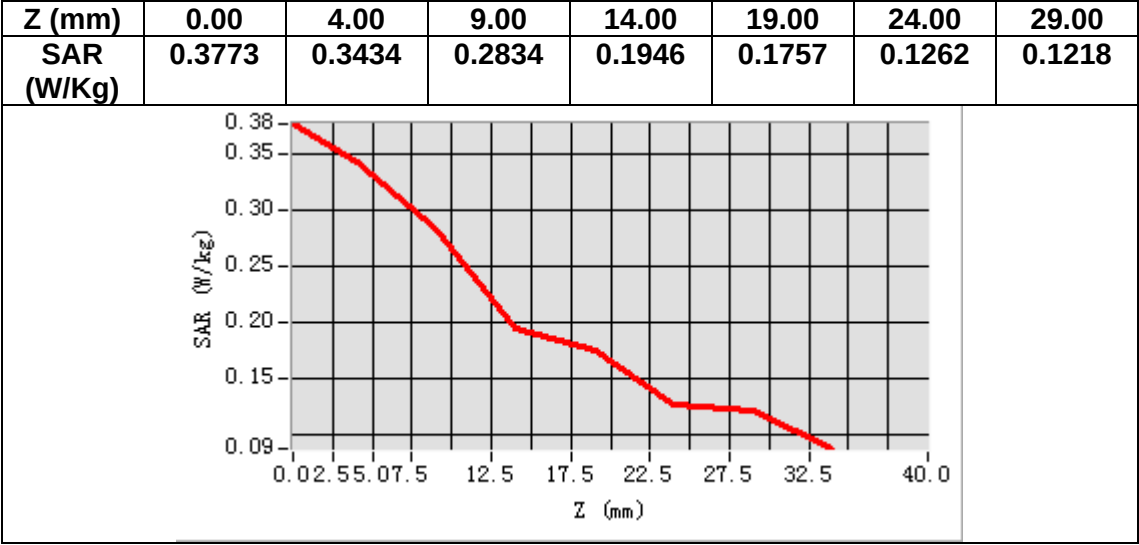
Frequency (MHz)	836.400000
Relative permittivity (real part)	40.840961
Relative permittivity (imaginary part)	19.901541
Conductivity (S/m)	0.924758
Variation (%)	-0.440000



Maximum location: X=-51.00, Y=-37.00

SAR Peak: 0.45 W/kg

SAR 10g (W/Kg)	0.253784
SAR 1g (W/Kg)	0.340035



MEASUREMENT 2

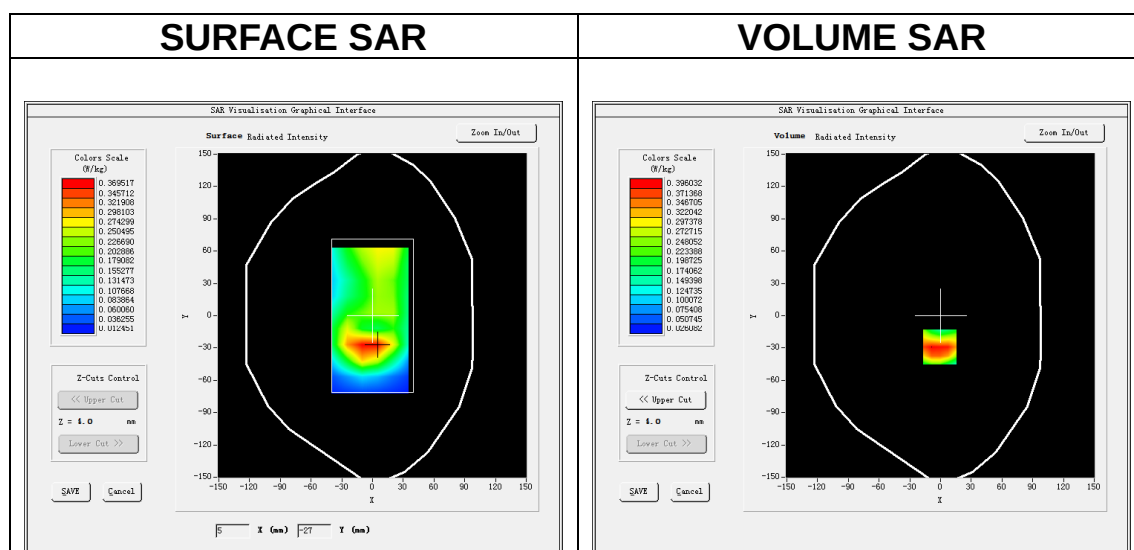
Date of measurement: 3/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 4.0)</u>

B. SAR Measurement Results

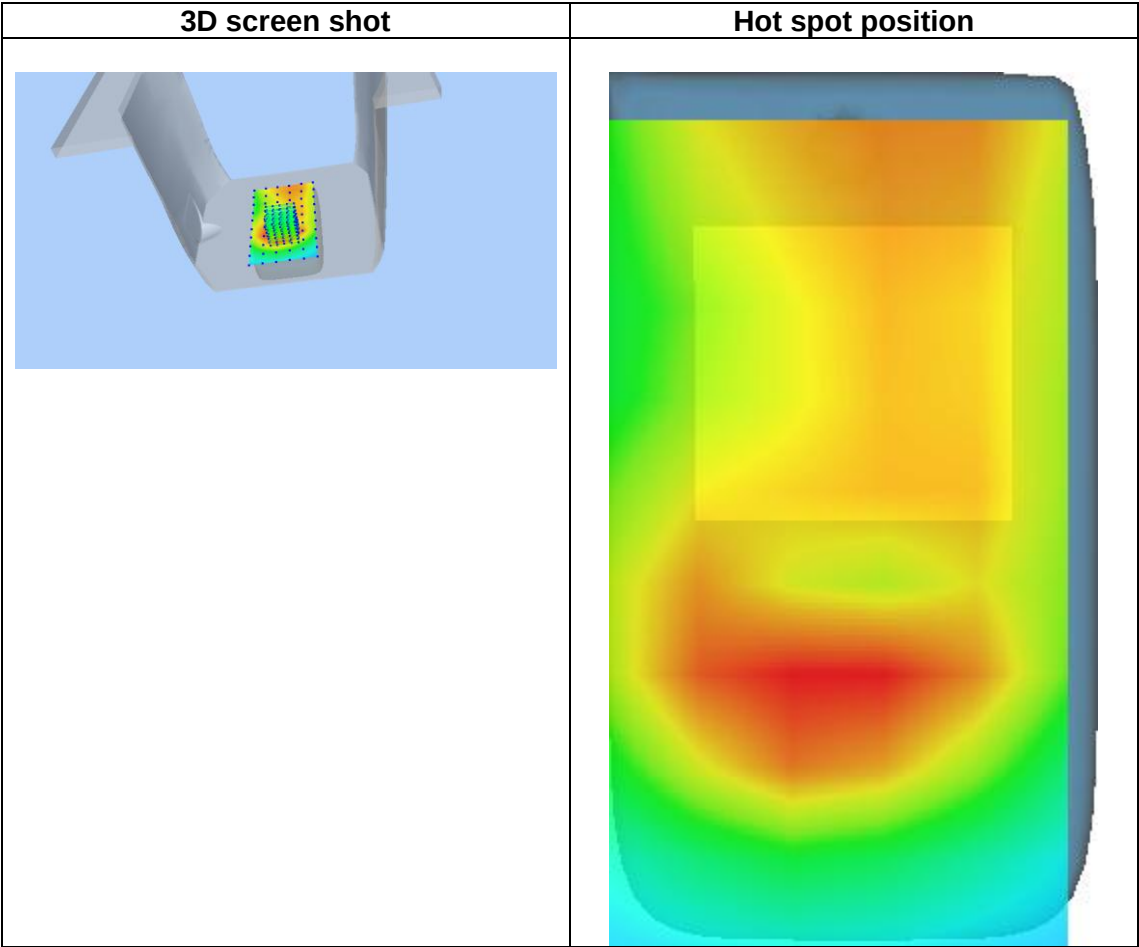
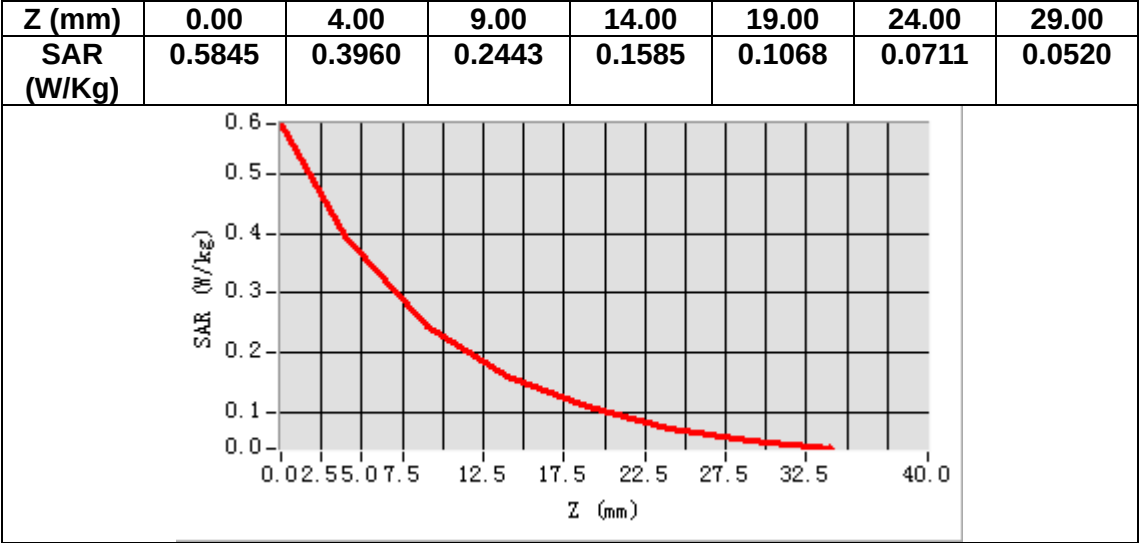
Frequency (MHz)	836.400000
Relative permittivity (real part)	54.669579
Relative permittivity (imaginary part)	21.102739
Conductivity (S/m)	0.980574
Variation (%)	-1.270000



Maximum location: X=-1.00, Y=-29.00

SAR Peak: 0.59 W/kg

SAR 10g (W/Kg)	0.228907
SAR 1g (W/Kg)	0.385153



MEASUREMENT 3

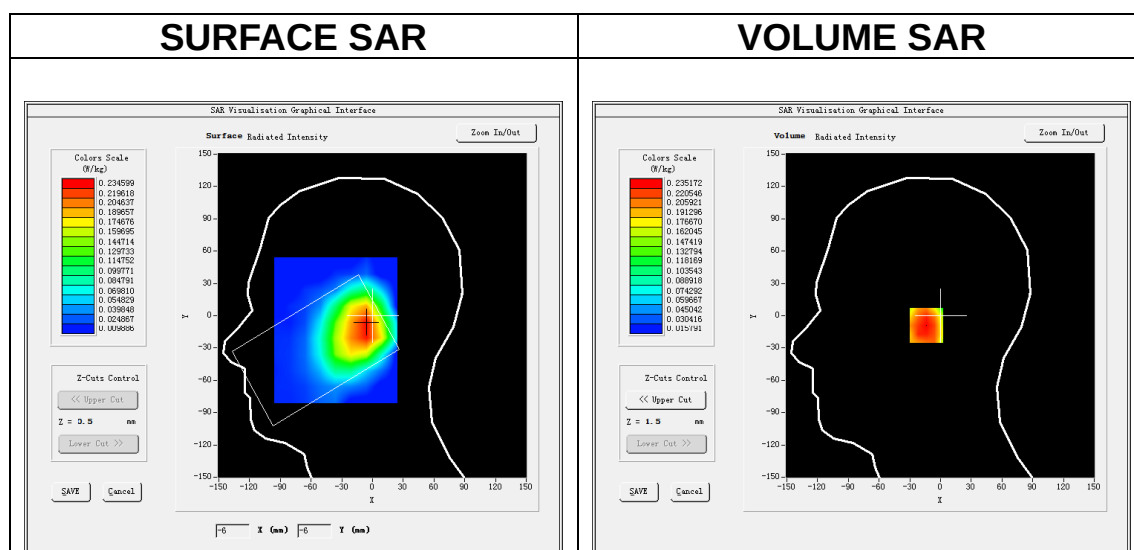
Date of measurement: 11/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 4.0)</u>

B. SAR Measurement Results

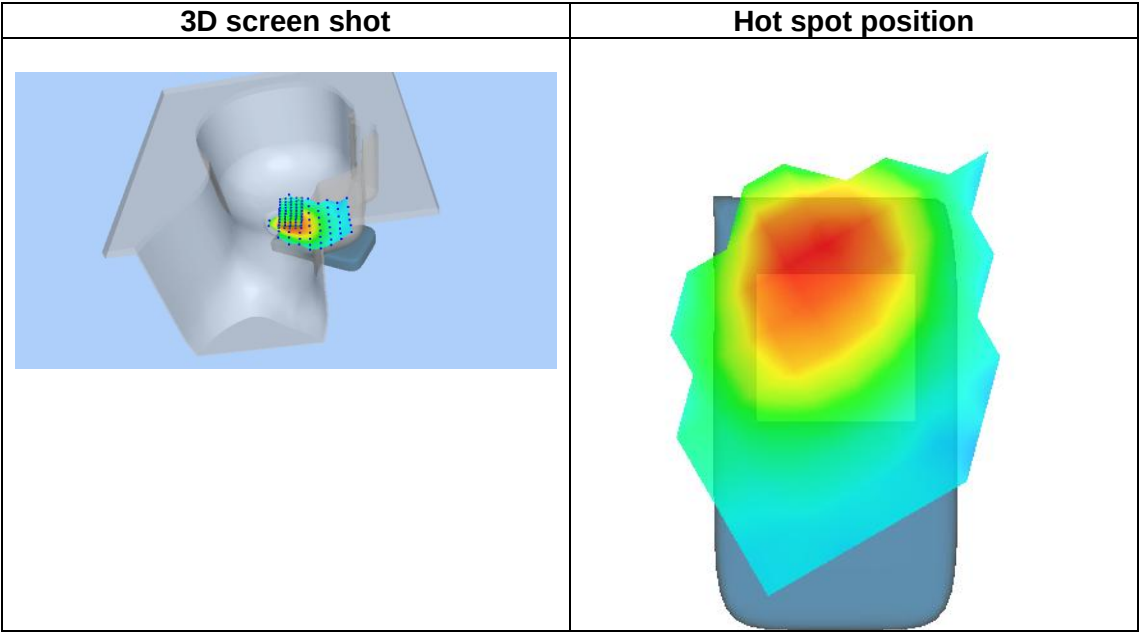
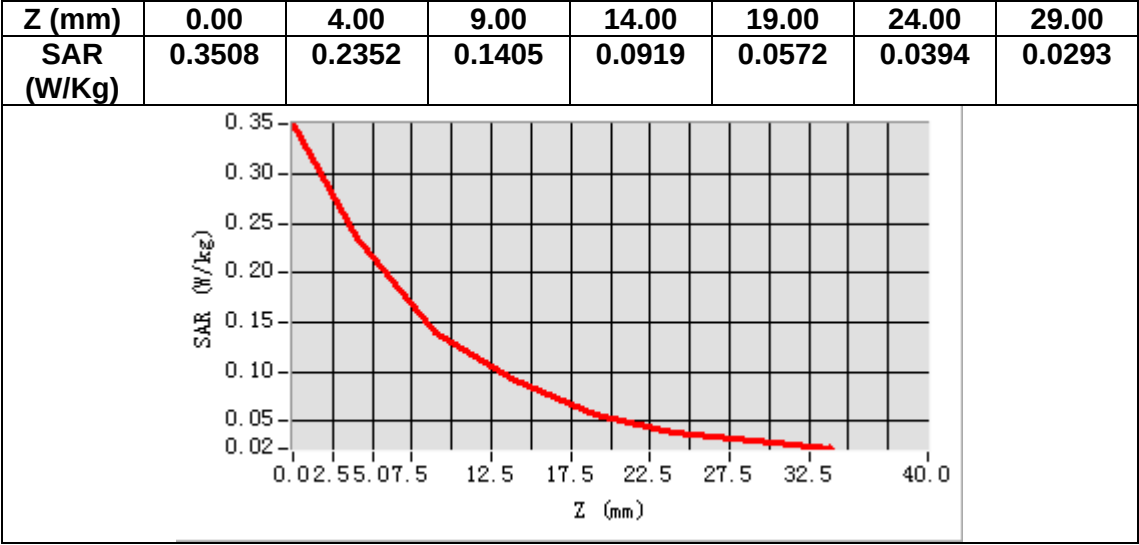
Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.196999
Relative permittivity (imaginary part)	13.170200
Conductivity (S/m)	1.375554
Variation (%)	-0.490000



Maximum location: X=-7.00, Y=-9.00

SAR Peak: 0.36 W/kg

SAR 10g (W/Kg)	0.141479
SAR 1g (W/Kg)	0.228556



MEASUREMENT 4

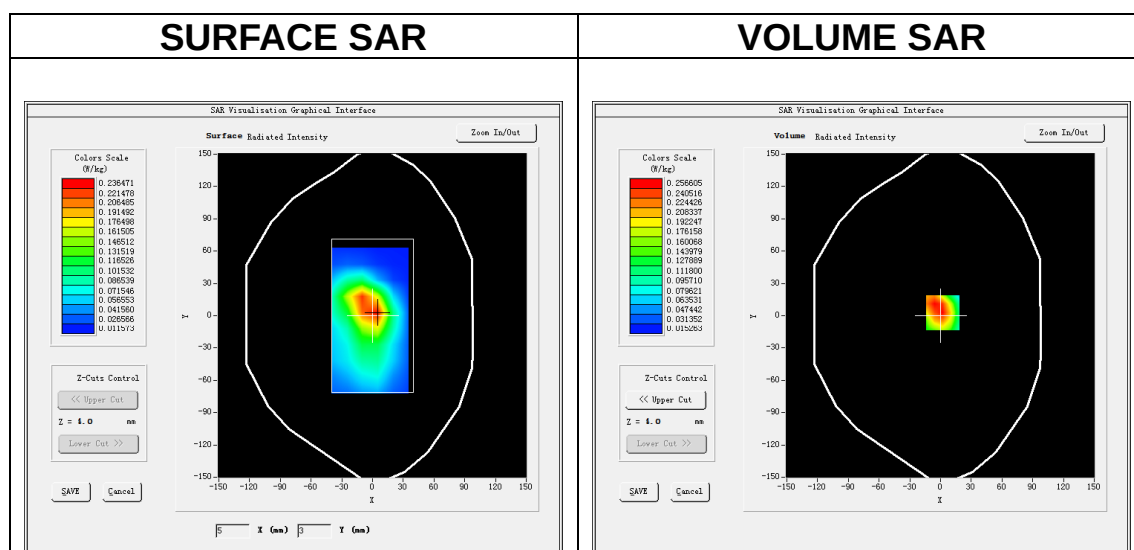
Date of measurement: 11/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 4.0)</u>

B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	54.463902
Relative permittivity (imaginary part)	14.507700
Conductivity (S/m)	1.515249
Variation (%)	0.200000



Maximum location: X=2.00, Y=3.00

SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.141223
SAR 1g (W/Kg)	0.248999

MEASUREMENT 5

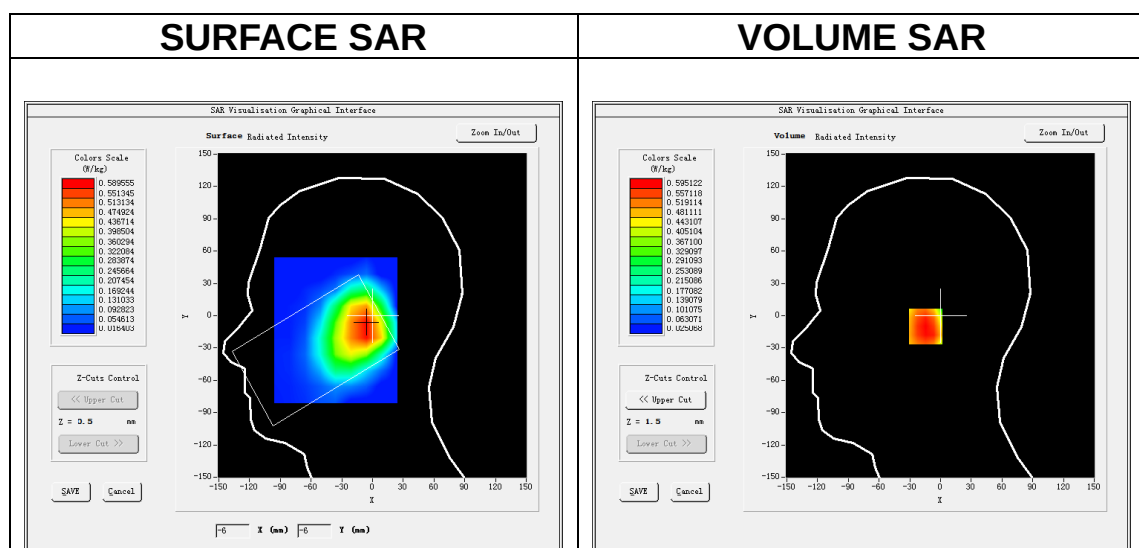
Date of measurement: 11/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band2 WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.196999
Relative permittivity (imaginary part)	13.170200
Conductivity (S/m)	1.375554
Variation (%)	-0.060000

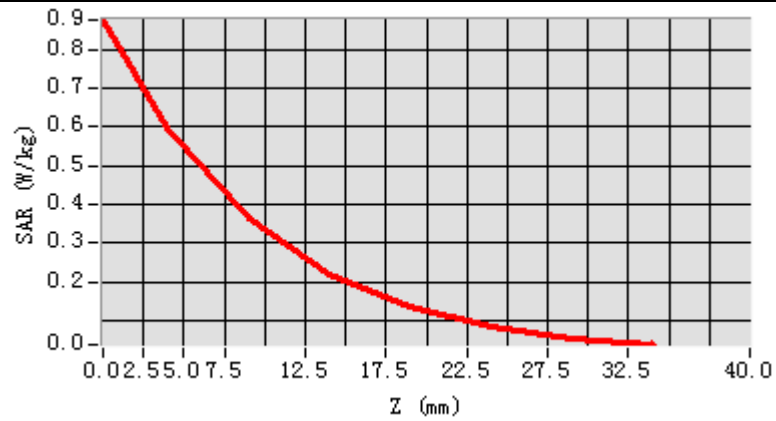


Maximum location: X=-7.00, Y=-10.00

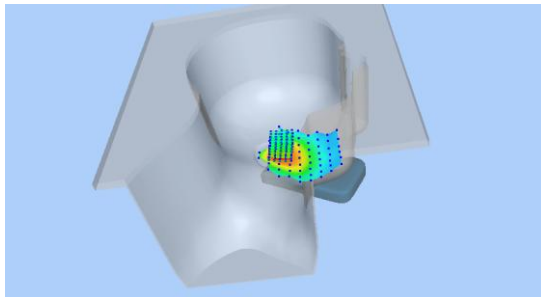
SAR Peak: 0.90 W/kg

SAR 10g (W/Kg)	0.352507
SAR 1g (W/Kg)	0.575924

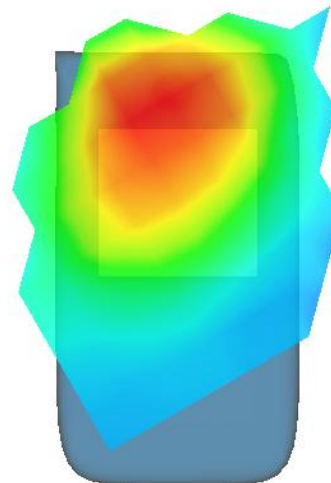
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8754	0.5951	0.3622	0.2211	0.1352	0.0860	0.0540



3D screen shot



Hot spot position



MEASUREMENT 6

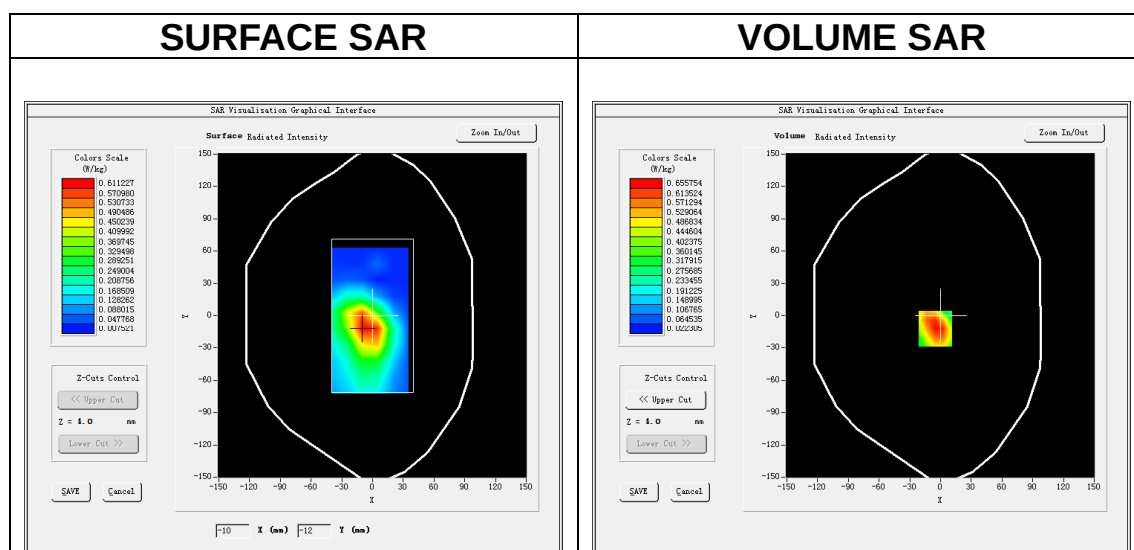
Date of measurement: 11/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band2 WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

B. SAR Measurement Results

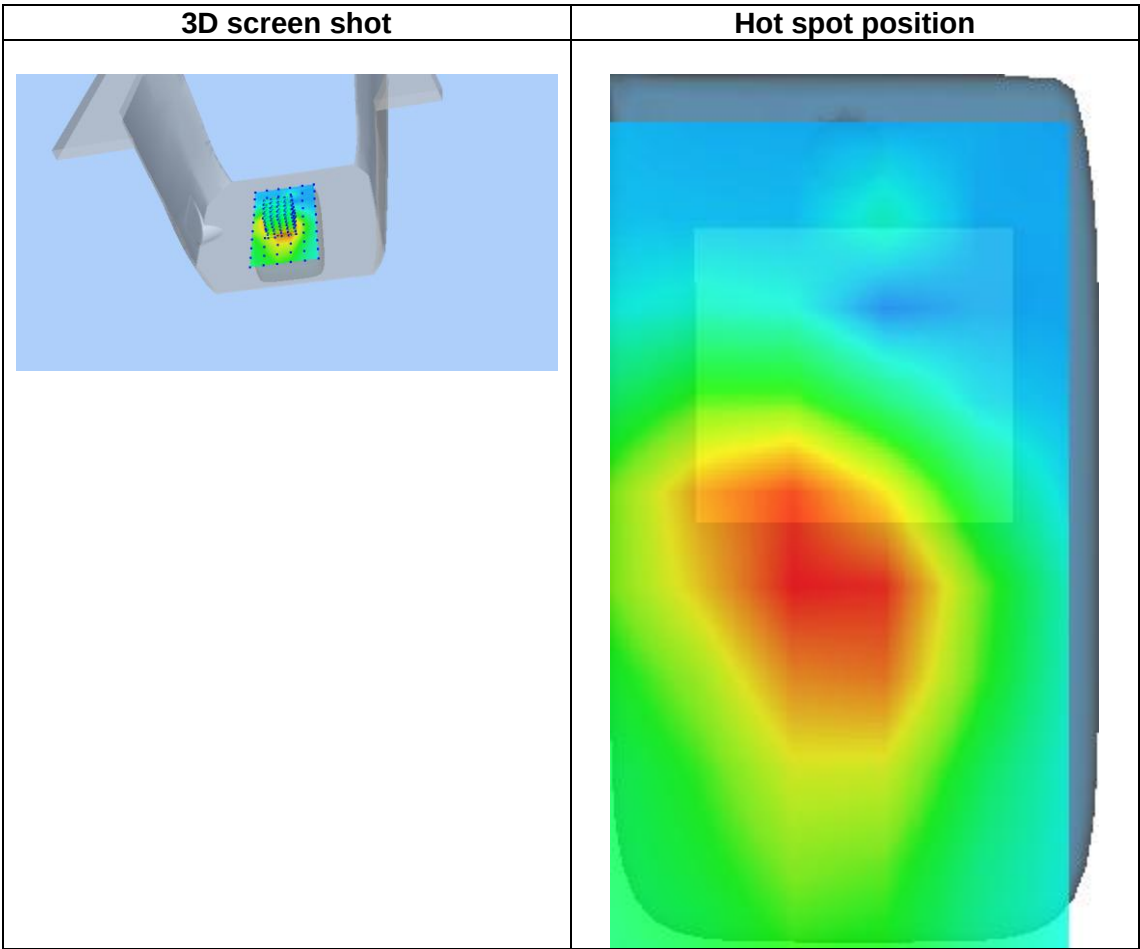
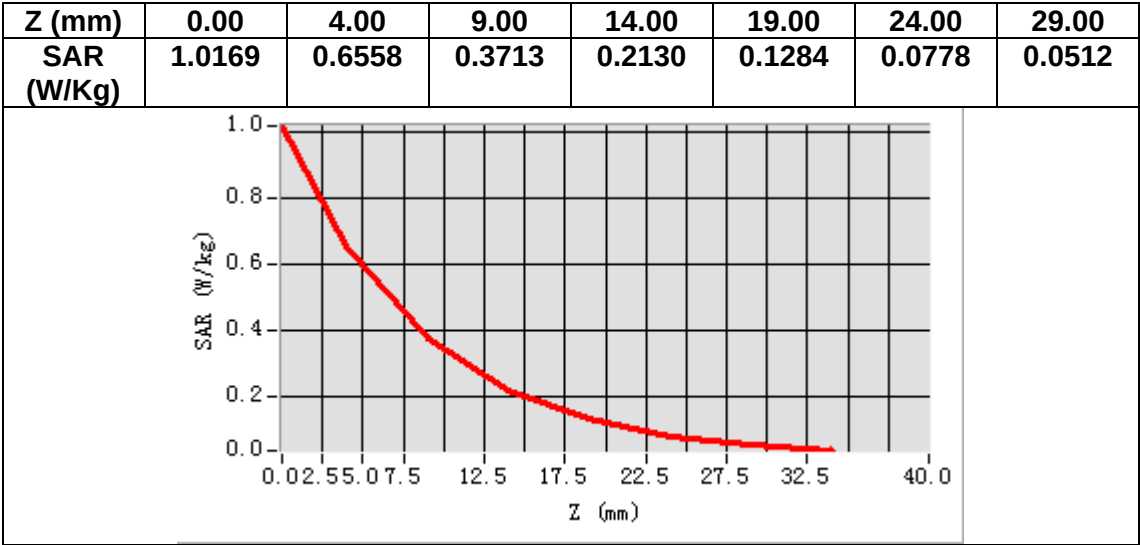
Frequency (MHz)	1880.000000
Relative permittivity (real part)	54.463902
Relative permittivity (imaginary part)	14.507700
Conductivity (S/m)	1.515249
Variation (%)	-1.000000



Maximum location: X=-5.00, Y=-12.00

SAR Peak: 1.04 W/kg

SAR 10g (W/Kg)	0.355963
SAR 1g (W/Kg)	0.634107



MEASUREMENT 7

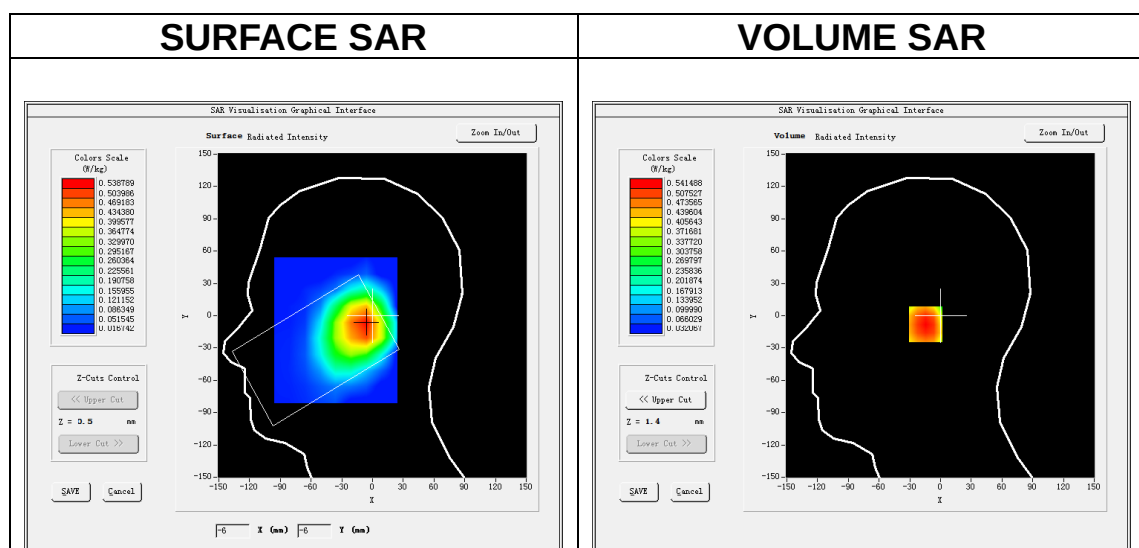
Date of measurement: 4/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band4 WCDMA1700</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

B. SAR Measurement Results

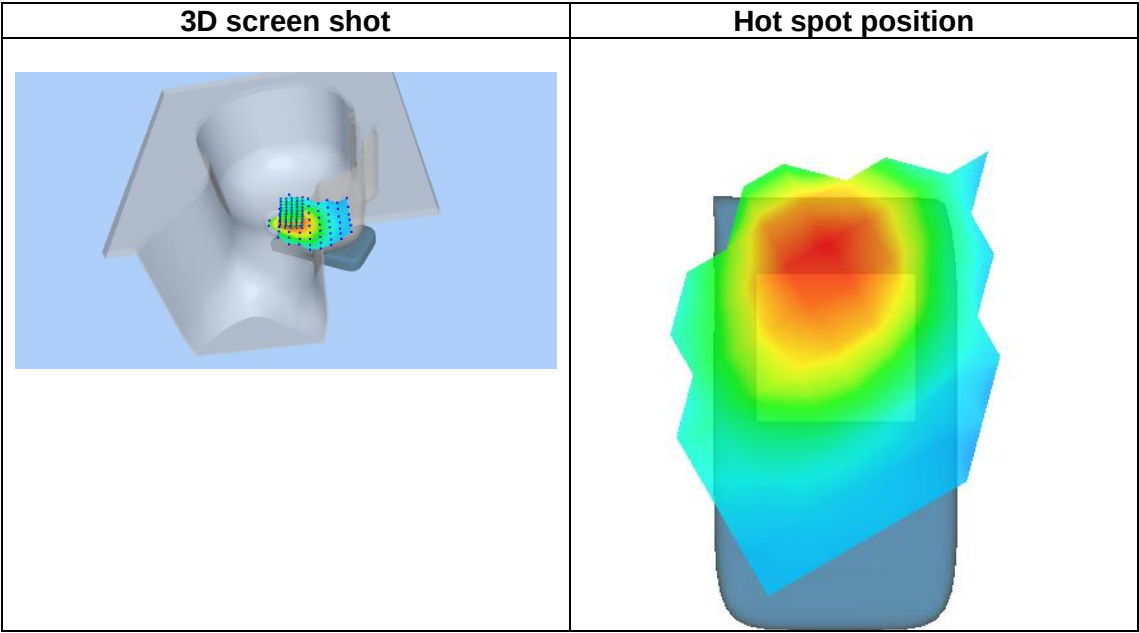
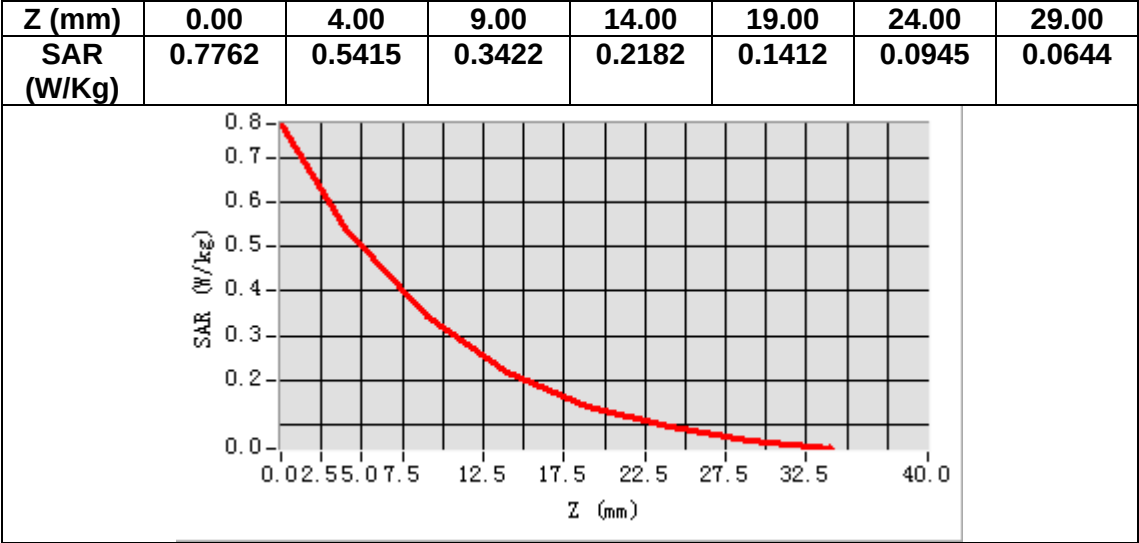
Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.247391
Relative permittivity (imaginary part)	13.685742
Conductivity (S/m)	1.316873
Variation (%)	-1.030000



Maximum location: X=-8.00, Y=-8.00

SAR Peak: 0.79 W/kg

SAR 10g (W/Kg)	0.329650
SAR 1g (W/Kg)	0.522261



MEASUREMENT 8

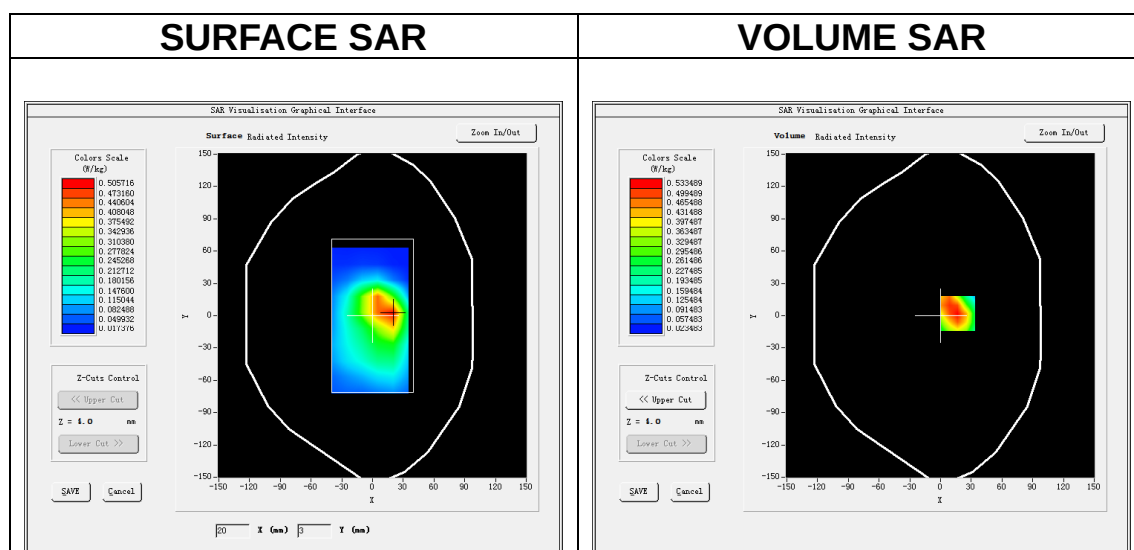
Date of measurement: 10/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band4 WCDMA1700</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

B. SAR Measurement Results

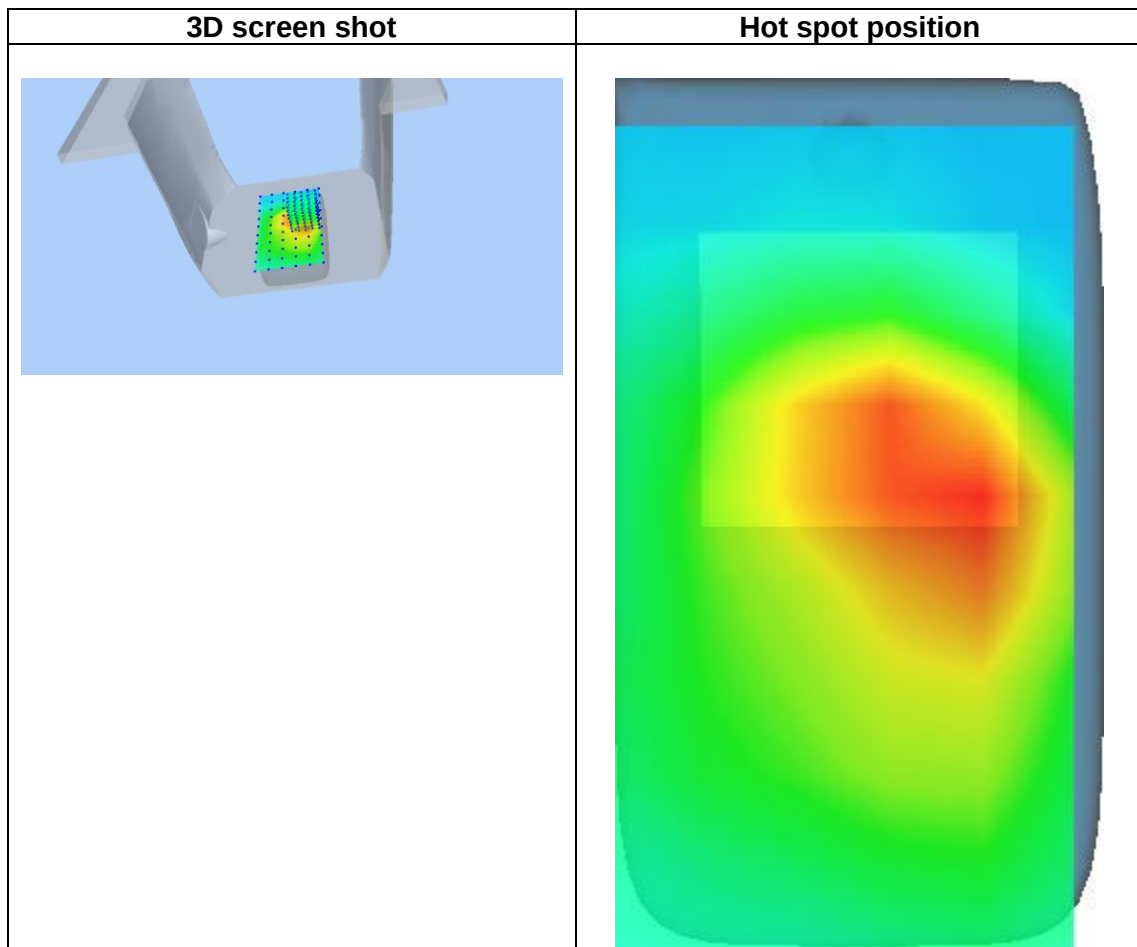
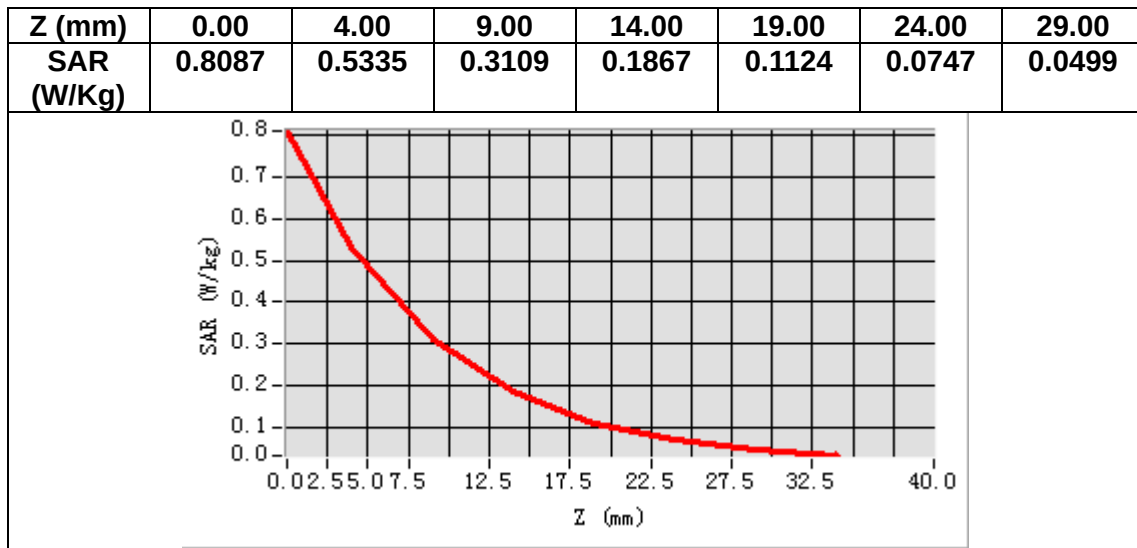
Frequency (MHz)	1732.600000
Relative permittivity (real part)	54.581165
Relative permittivity (imaginary part)	15.116370
Conductivity (S/m)	1.454531
Variation (%)	-1.320000



Maximum location: X=17.00, Y=2.00

SAR Peak: 0.83 W/kg

SAR 10g (W/Kg)	0.291286
SAR 1g (W/Kg)	0.509336



MEASUREMENT 9

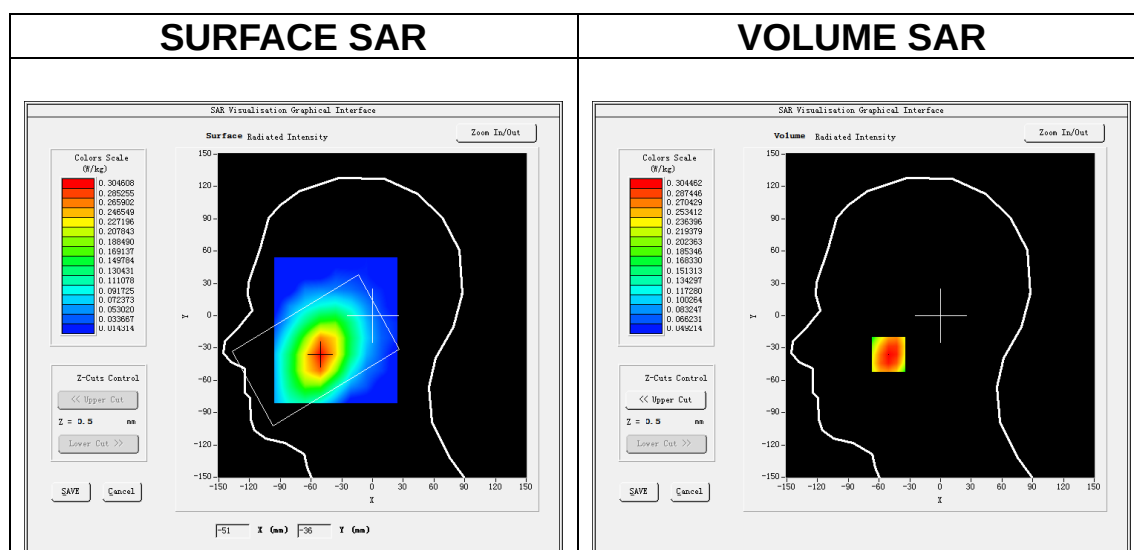
Date of measurement: 3/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band5 WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

B. SAR Measurement Results

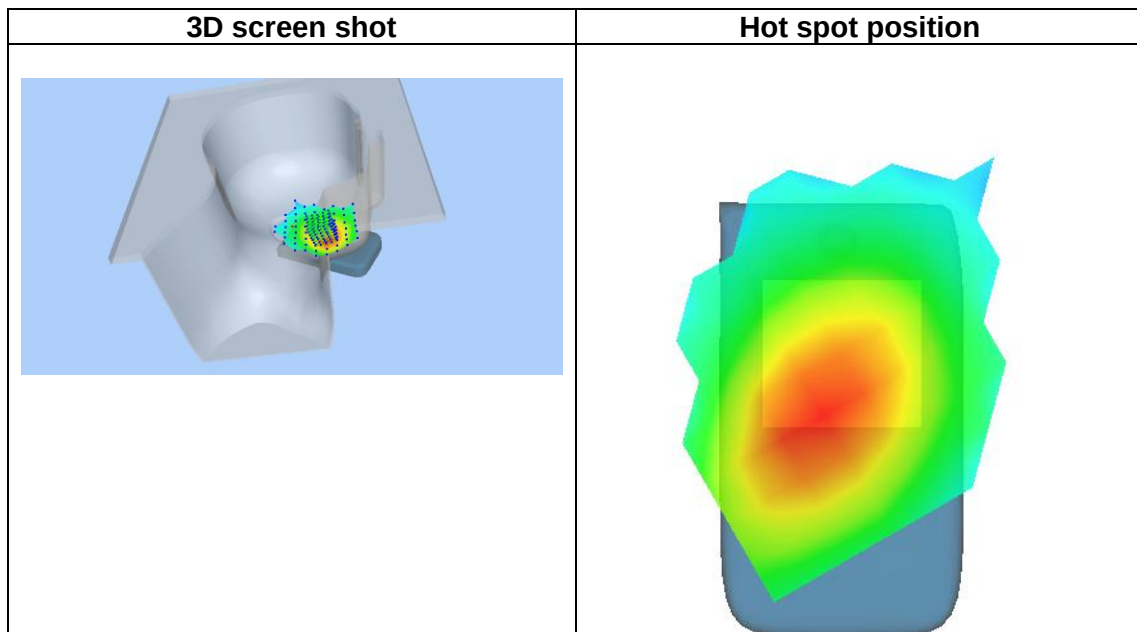
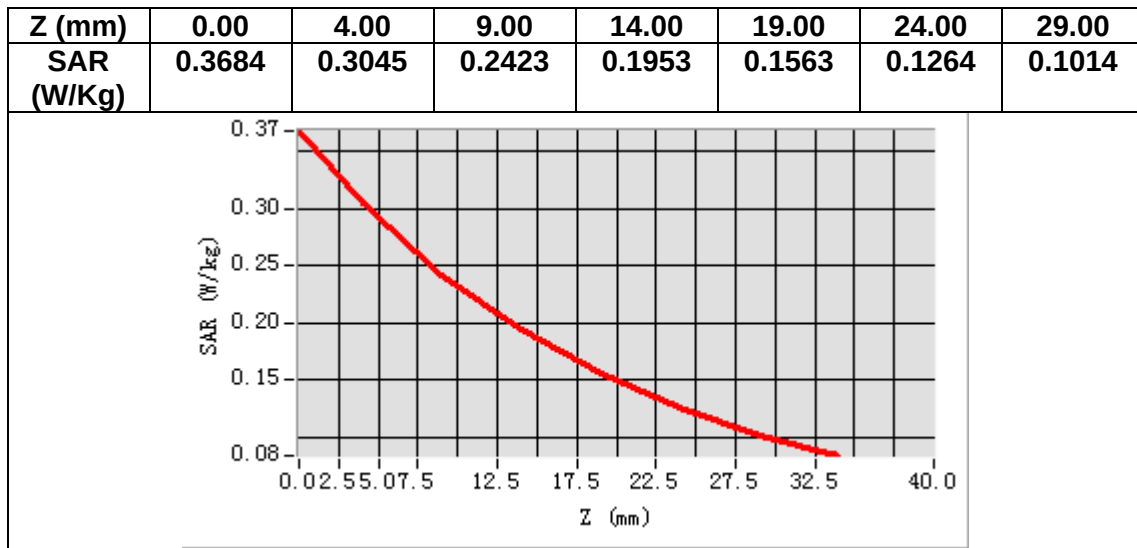
Frequency (MHz)	836.400000
Relative permittivity (real part)	40.840961
Relative permittivity (imaginary part)	19.901541
Conductivity (S/m)	0.924758
Variation (%)	-0.910000



Maximum location: X=-51.00, Y=-36.00

SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.225161
SAR 1g (W/Kg)	0.304854



MEASUREMENT 10

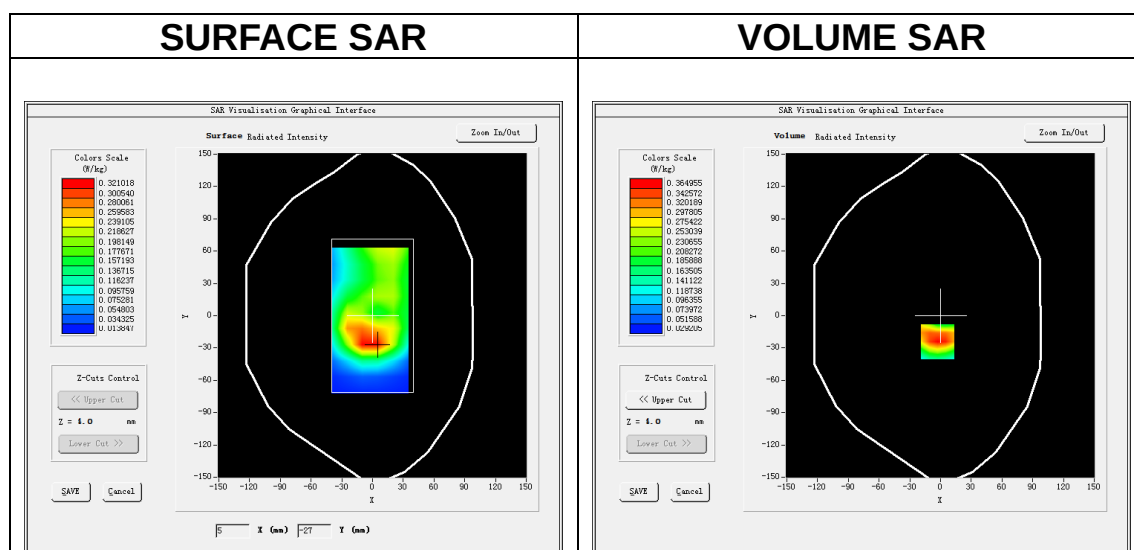
Date of measurement: 3/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band5 WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

B. SAR Measurement Results

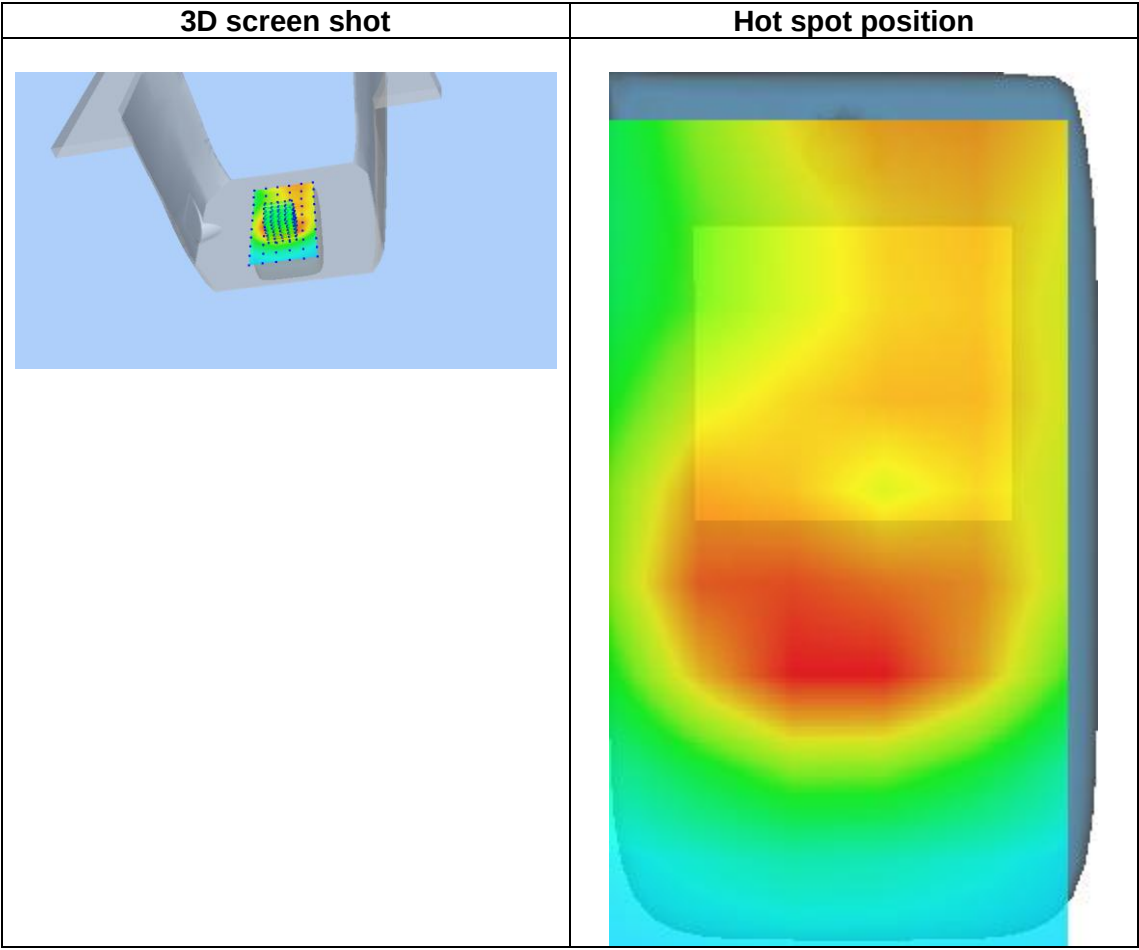
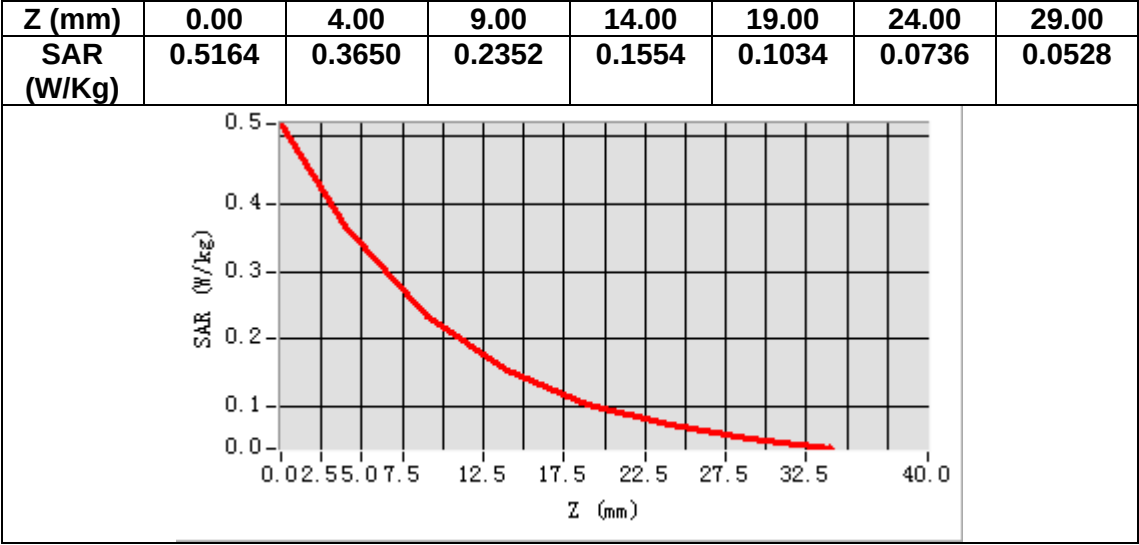
Frequency (MHz)	836.400000
Relative permittivity (real part)	54.669579
Relative permittivity (imaginary part)	21.102739
Conductivity (S/m)	0.980574
Variation (%)	-2.590000



Maximum location: X=-3.00, Y=-24.00

SAR Peak: 0.55 W/kg

SAR 10g (W/Kg)	0.210667
SAR 1g (W/Kg)	0.353602



MEASUREMENT 11

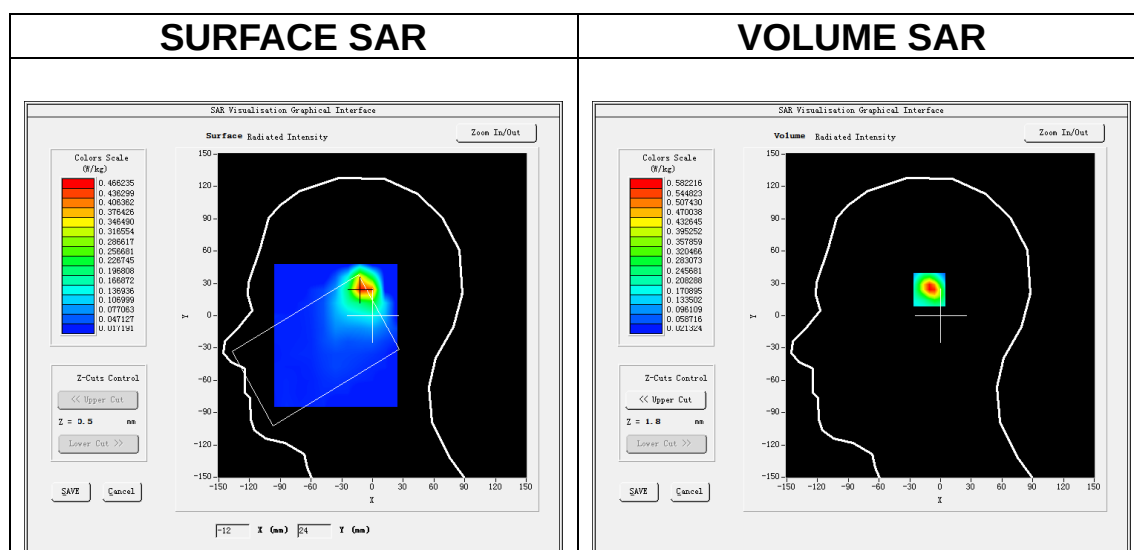
Date of measurement: 12/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Left 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>IEEE802.11b (Crest factor: 1.0)</u>

B. SAR Measurement Results

Frequency (MHz)	2437.000000
Relative permittivity (real part)	38.757999
Relative permittivity (imaginary part)	13.390300
Conductivity (S/m)	1.812898
Variation (%)	-1.450000

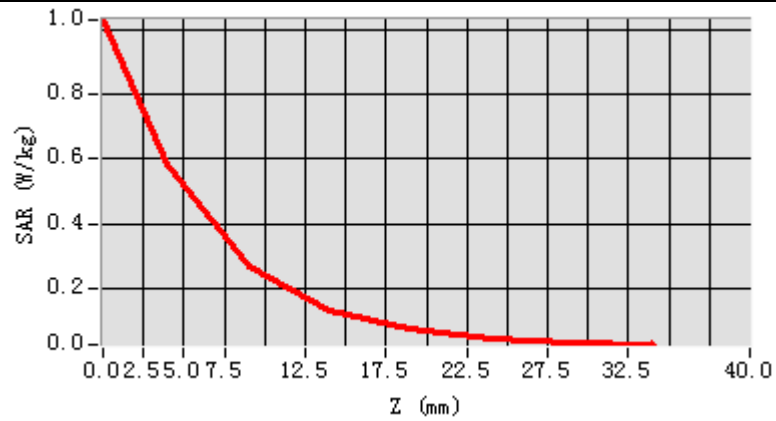


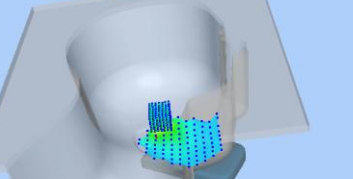
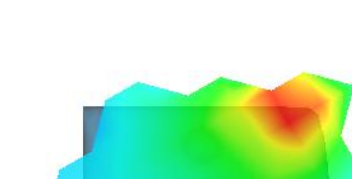
Maximum location: X=-9.00, Y=26.00

SAR Peak: 1.06 W/kg

SAR 10g (W/Kg)	0.230268
SAR 1g (W/Kg)	0.542419

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.0318	0.5822	0.2657	0.1328	0.0718	0.0423	0.0315



3D screen shot	Hot spot position
 A 3D rendering of a hand model positioned over a flat surface. A grid of blue dots, representing a sensor array, is overlaid on the palm side of the hand. The background is a solid light blue.	 A 3D rendering of a hand model with a color-coded heatmap overlay. The heatmap shows a prominent red and yellow area on the upper palm, indicating a 'hot spot' or high concentration of data. The rest of the hand is colored in shades of green and blue. The background is white.

MEASUREMENT 12

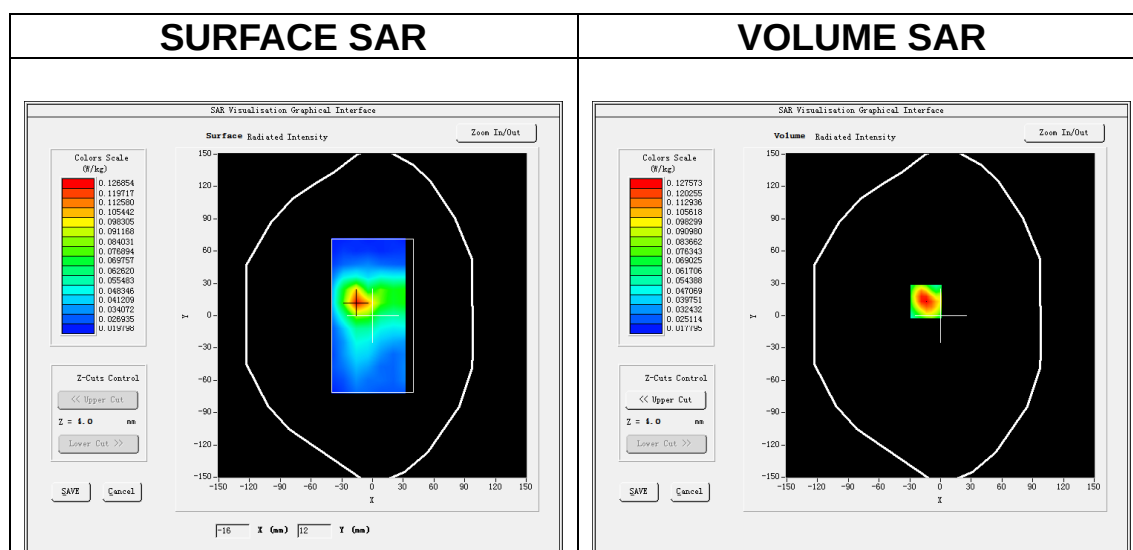
Date of measurement: 12/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</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>	IEEE802.11b (Crest factor: 1.0)

B. SAR Measurement Results

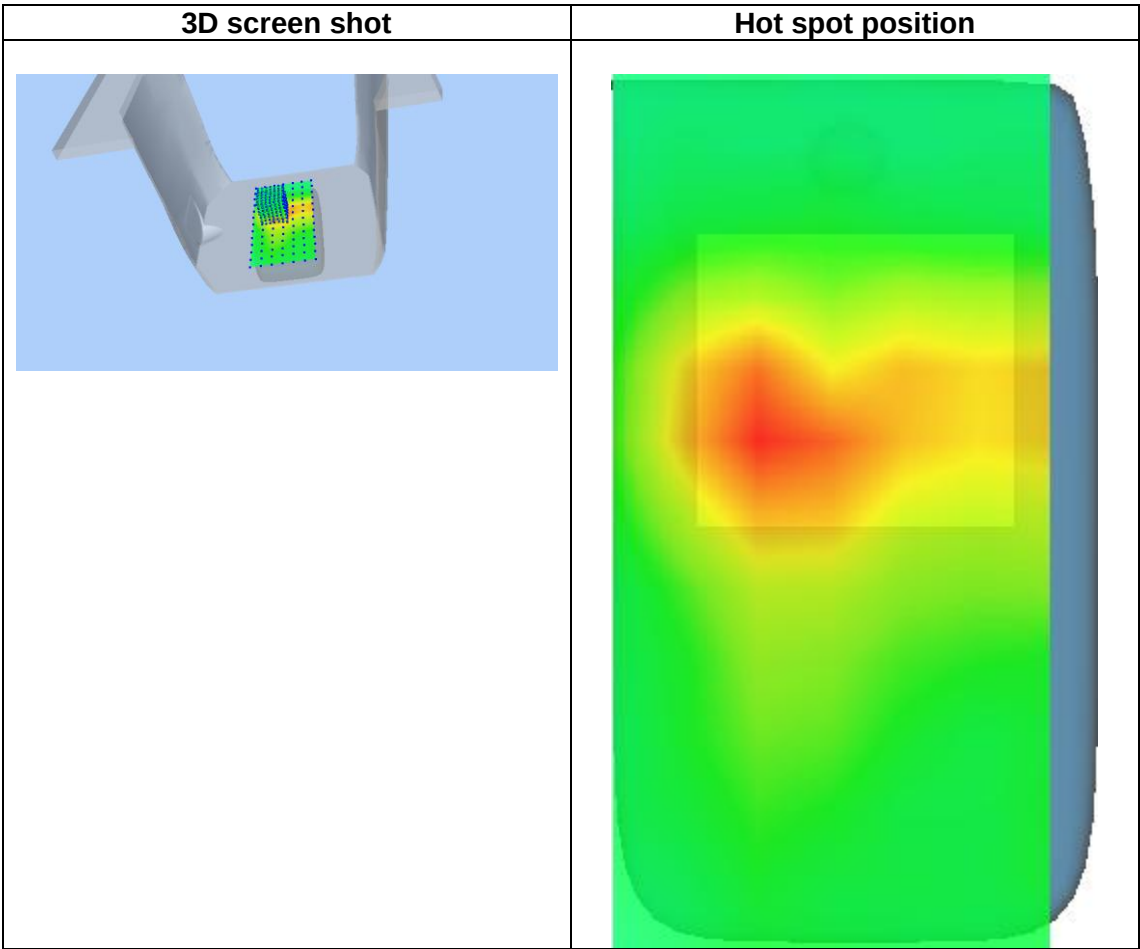
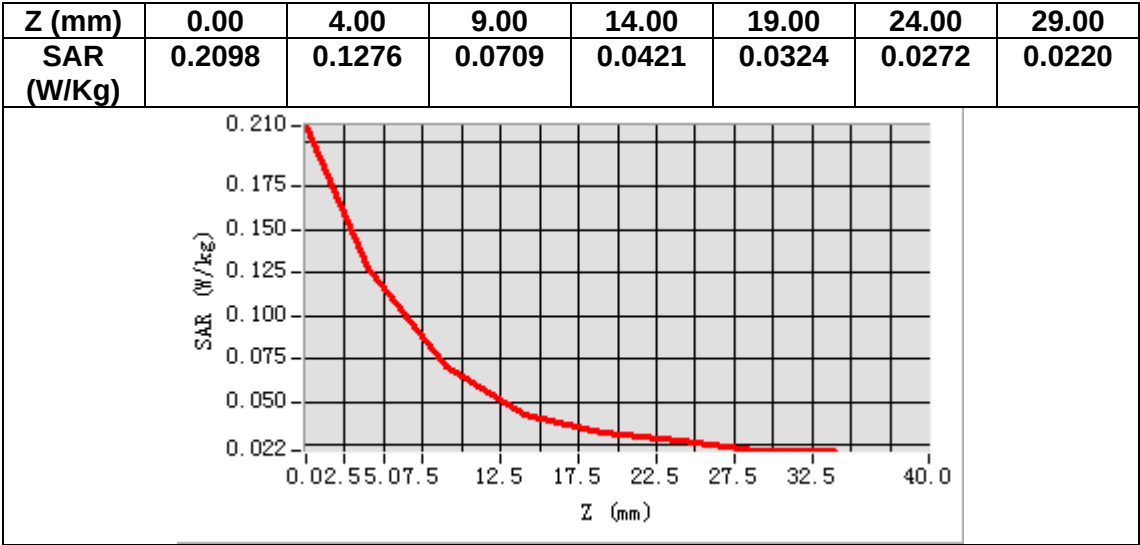
Frequency (MHz)	2437.000000
Relative permittivity (real part)	51.803699
Relative permittivity (imaginary part)	13.864400
Conductivity (S/m)	1.877086
Variation (%)	-1.130000



Maximum location: X=-14.00, Y=13.00

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.068604
SAR 1g (W/Kg)	0.122180



MEASUREMENT 13

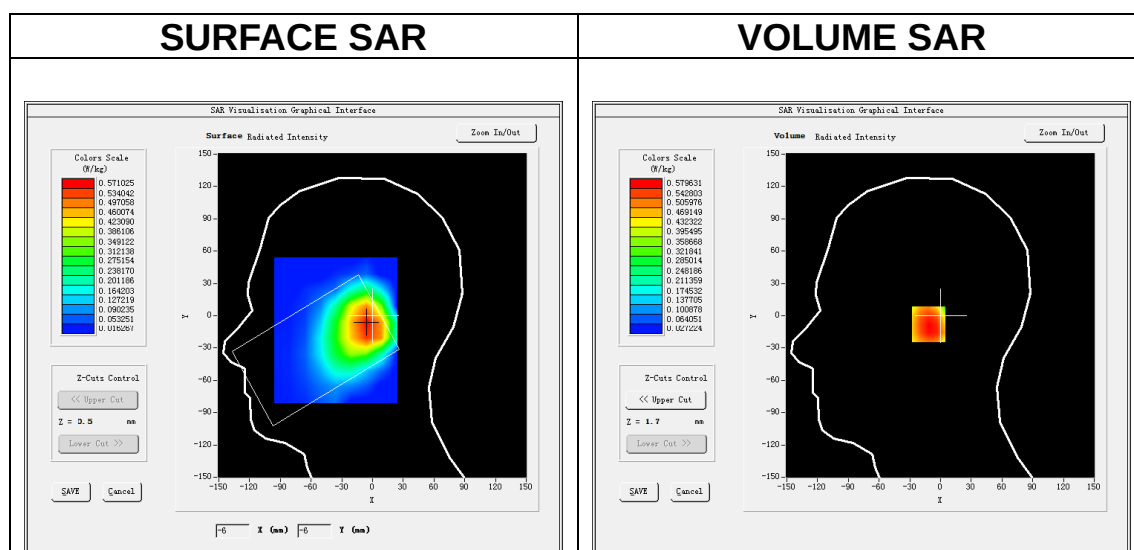
Date of measurement: 11/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

B. SAR Measurement Results

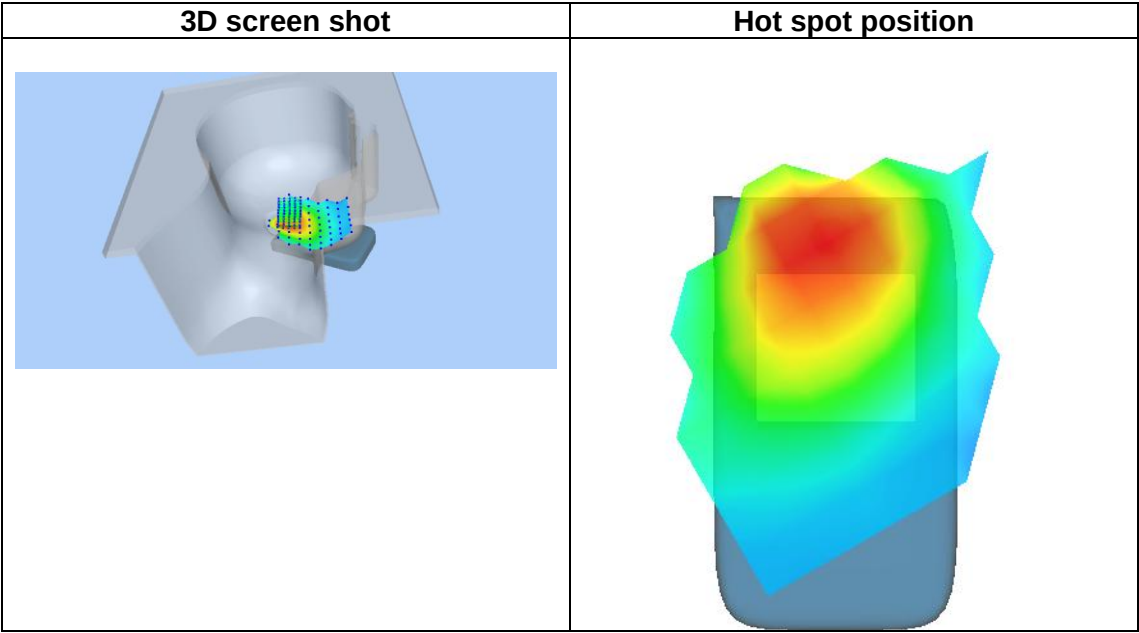
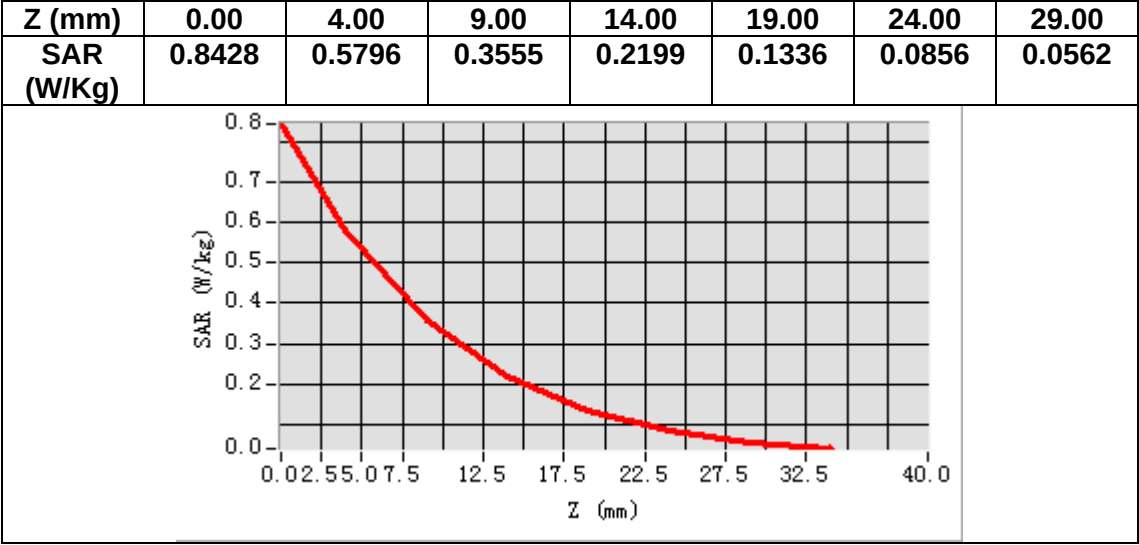
Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.196999
Relative permittivity (imaginary part)	13.170200
Conductivity (S/m)	1.375554
Variation (%)	-1.180000



Maximum location: X=-5.00, Y=-8.00

SAR Peak: 0.87 W/kg

SAR 10g (W/Kg)	0.345463
SAR 1g (W/Kg)	0.565722



MEASUREMENT 14

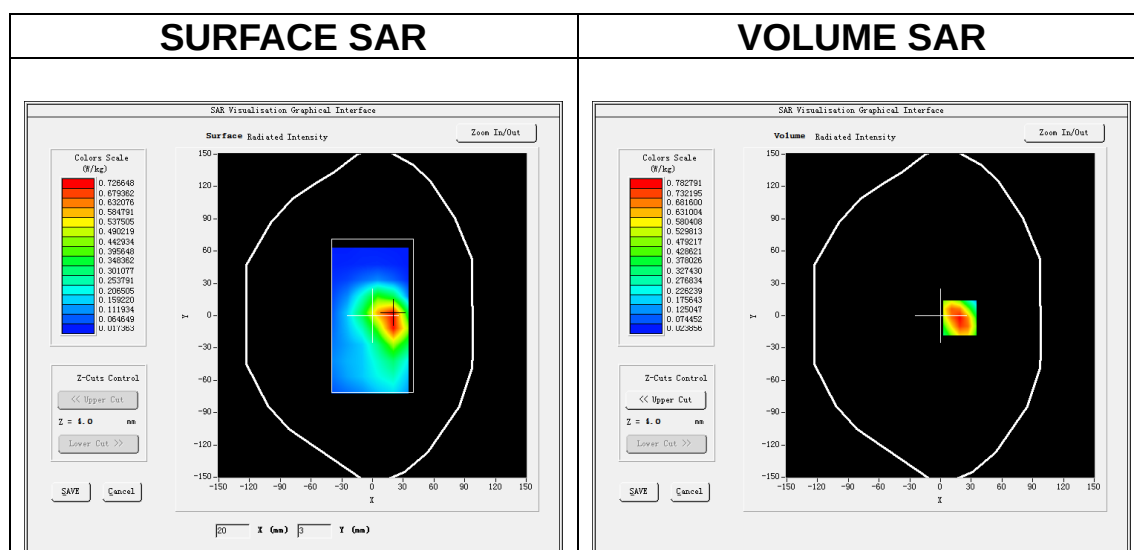
Date of measurement: 11/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

B. SAR Measurement Results

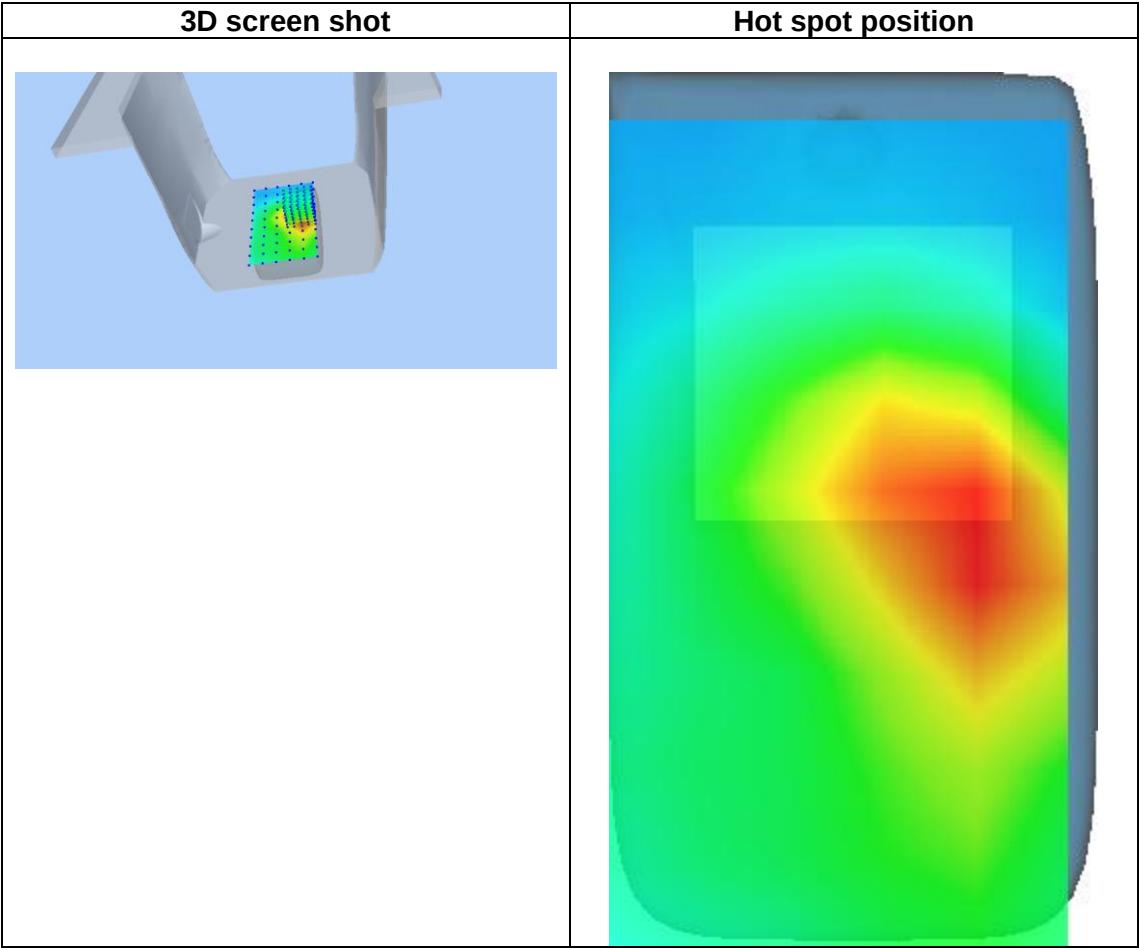
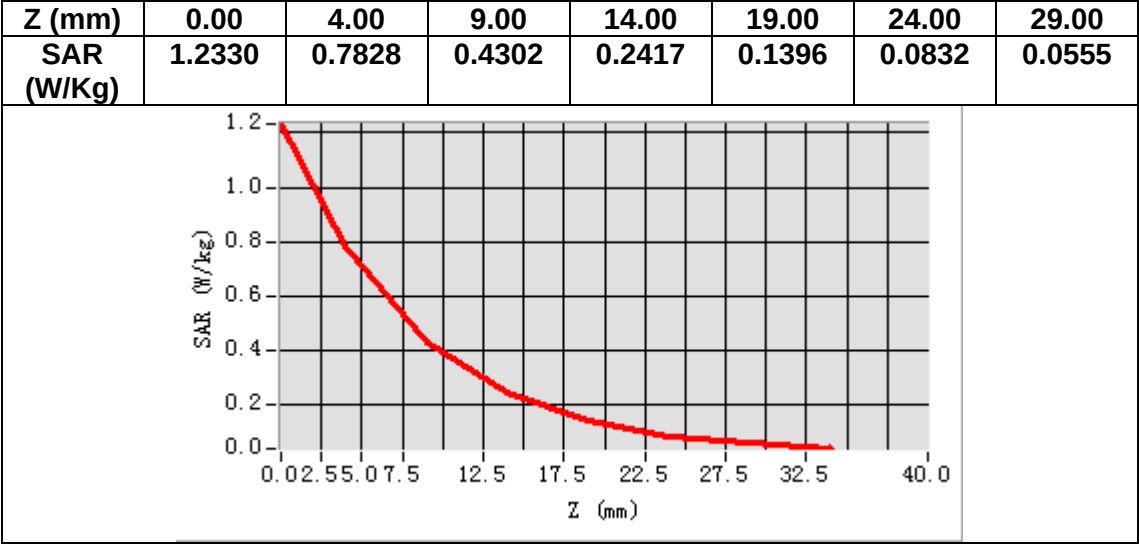
Frequency (MHz)	1880.000000
Relative permittivity (real part)	54.463902
Relative permittivity (imaginary part)	14.507700
Conductivity (S/m)	1.515249
Variation (%)	-1.310000



Maximum location: X=19.00, Y=-2.00

SAR Peak: 1.23 W/kg

SAR 10g (W/Kg)	0.410402
SAR 1g (W/Kg)	0.744380



MEASUREMENT 15

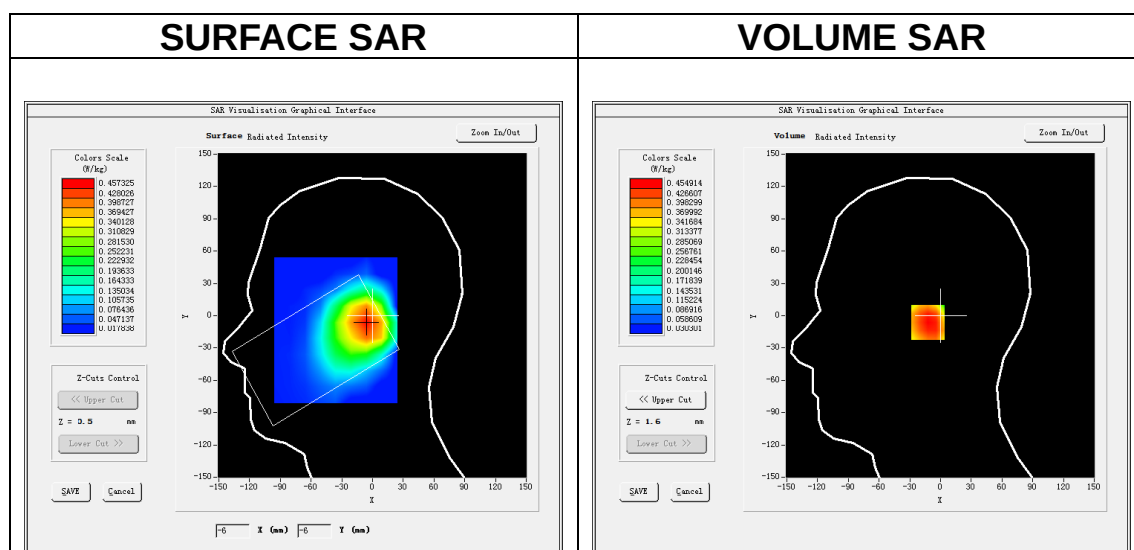
Date of measurement: 4/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 4</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

B. SAR Measurement Results

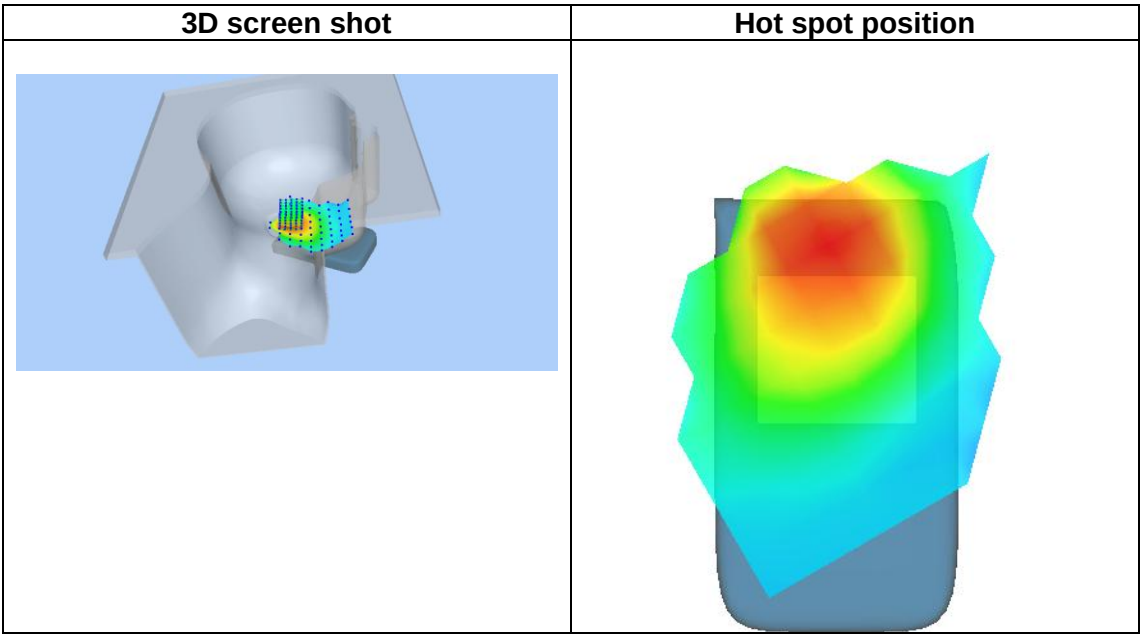
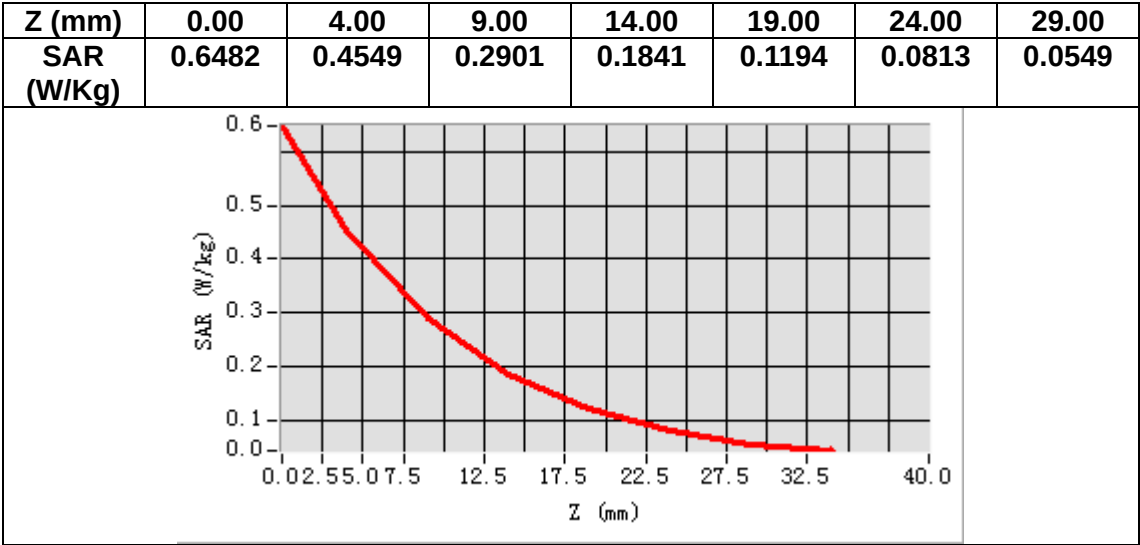
Frequency (MHz)	1732.500000
Relative permittivity (real part)	39.255291
Relative permittivity (imaginary part)	13.670592
Conductivity (S/m)	1.315794
Variation (%)	-1.330000



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

SAR Peak: 0.68 W/kg

SAR 10g (W/Kg)	0.277159
SAR 1g (W/Kg)	0.441285



MEASUREMENT 16

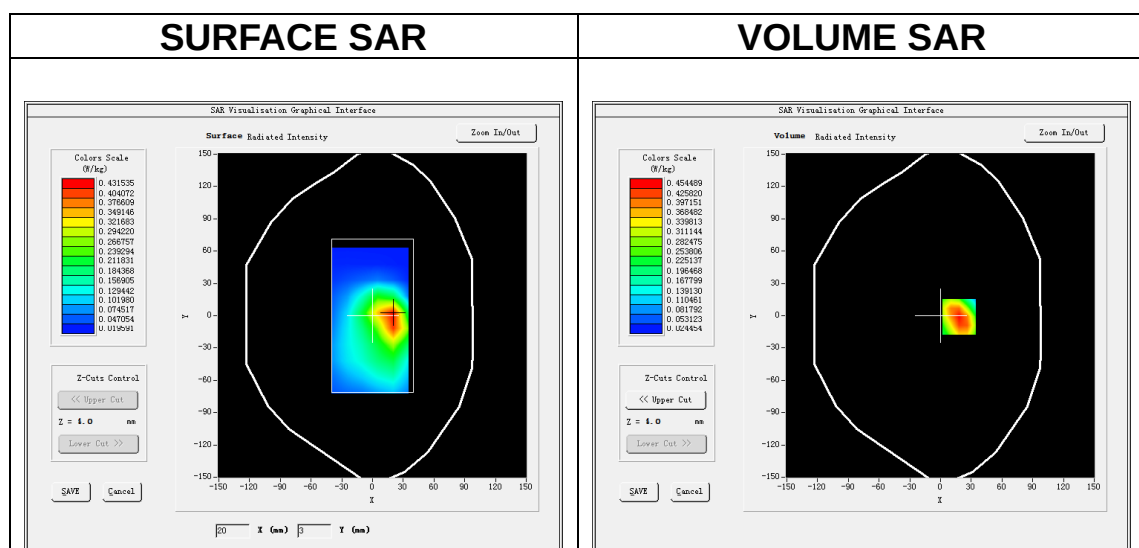
Date of measurement: 10/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 4</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

B. SAR Measurement Results

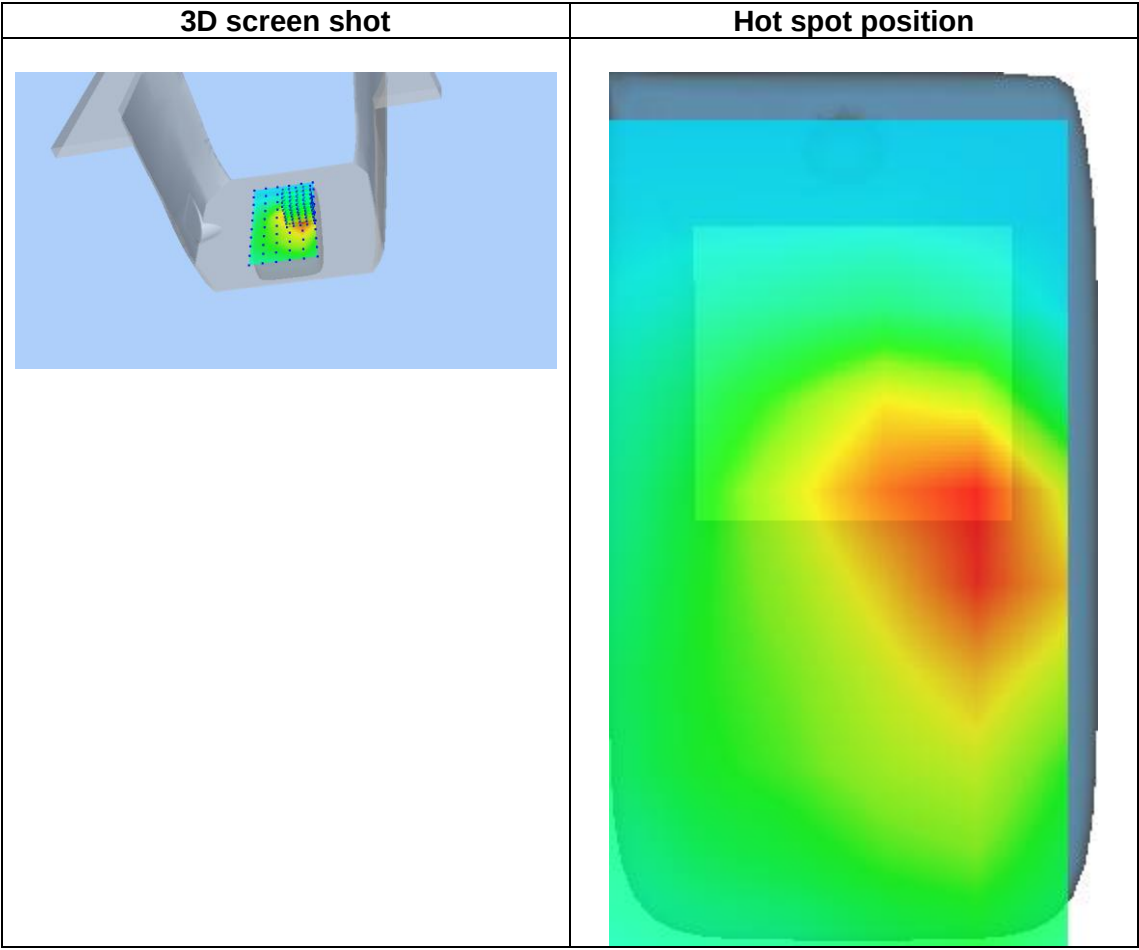
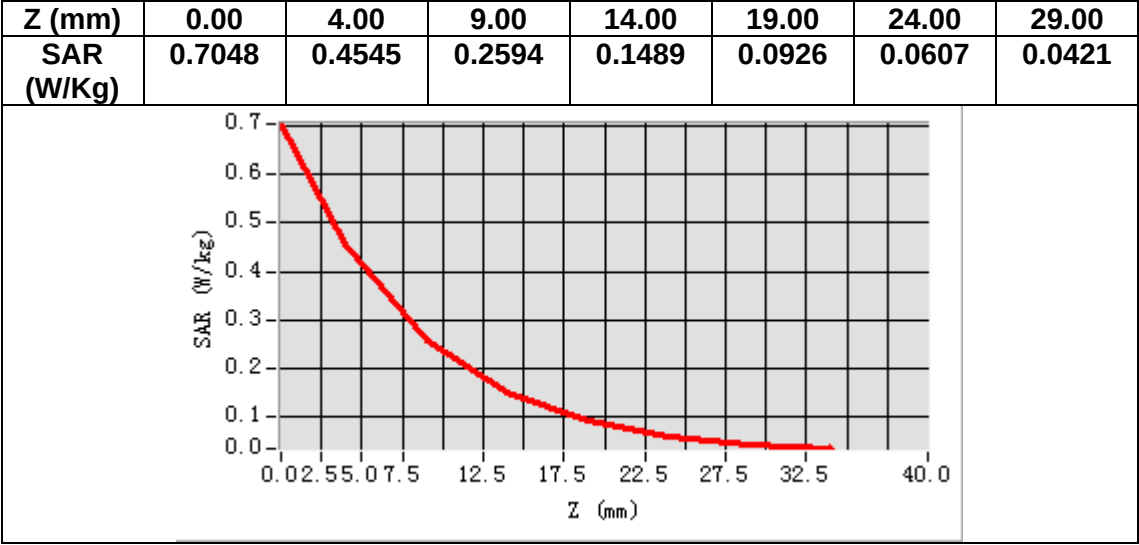
Frequency (MHz)	1732.500000
Relative permittivity (real part)	54.568367
Relative permittivity (imaginary part)	15.098220
Conductivity (S/m)	1.453204
Variation (%)	-1.250000



Maximum location: X=18.00, Y=-1.00

SAR Peak: 0.71 W/kg

SAR 10g (W/Kg)	0.244882
SAR 1g (W/Kg)	0.432776



MEASUREMENT 17

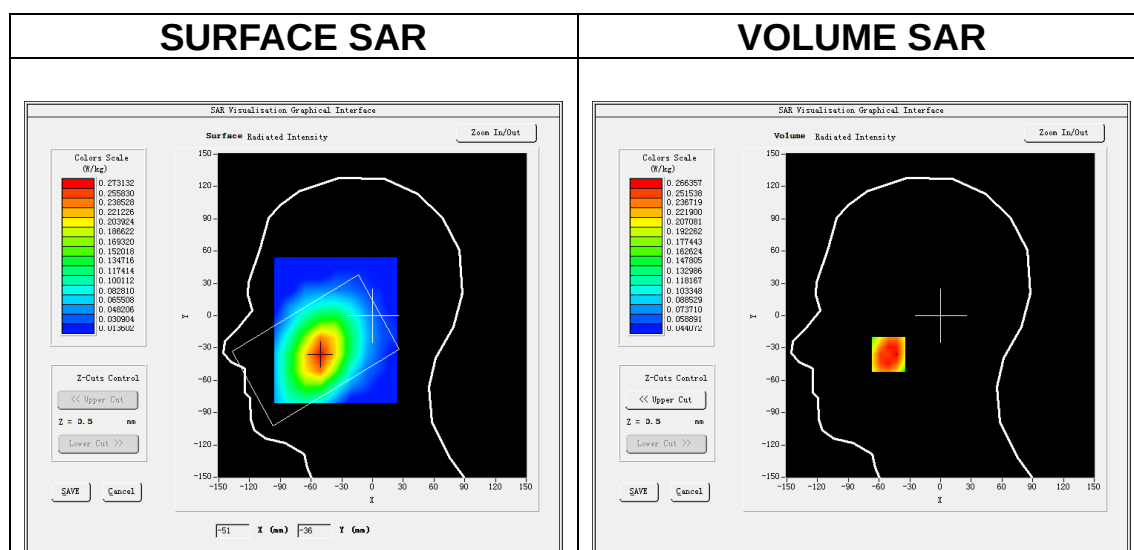
Date of measurement: 3/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

B. SAR Measurement Results

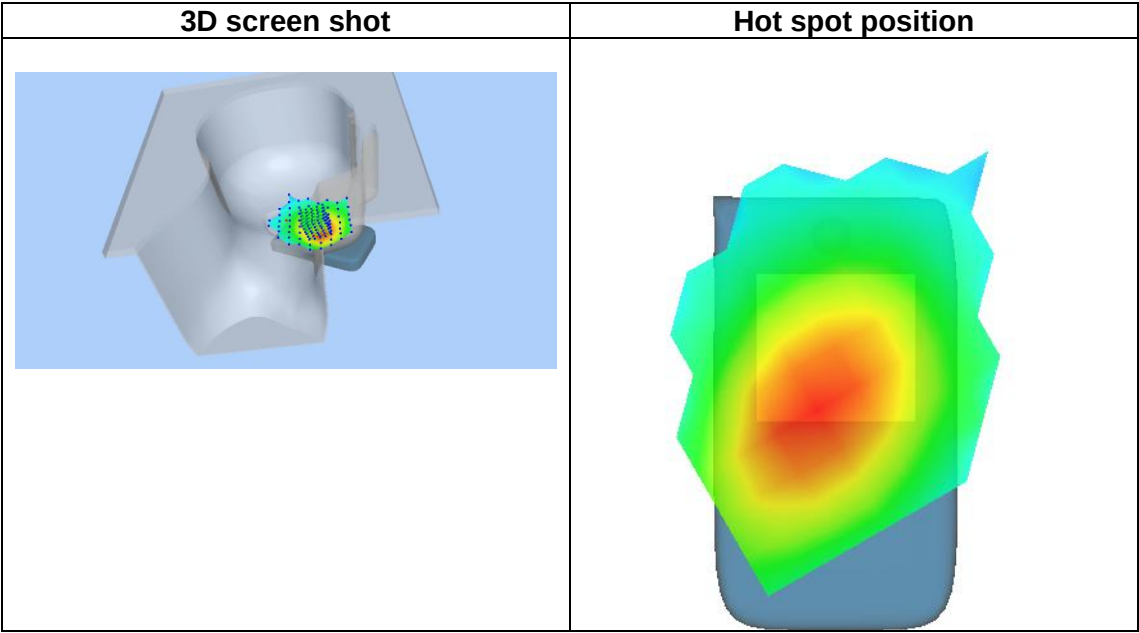
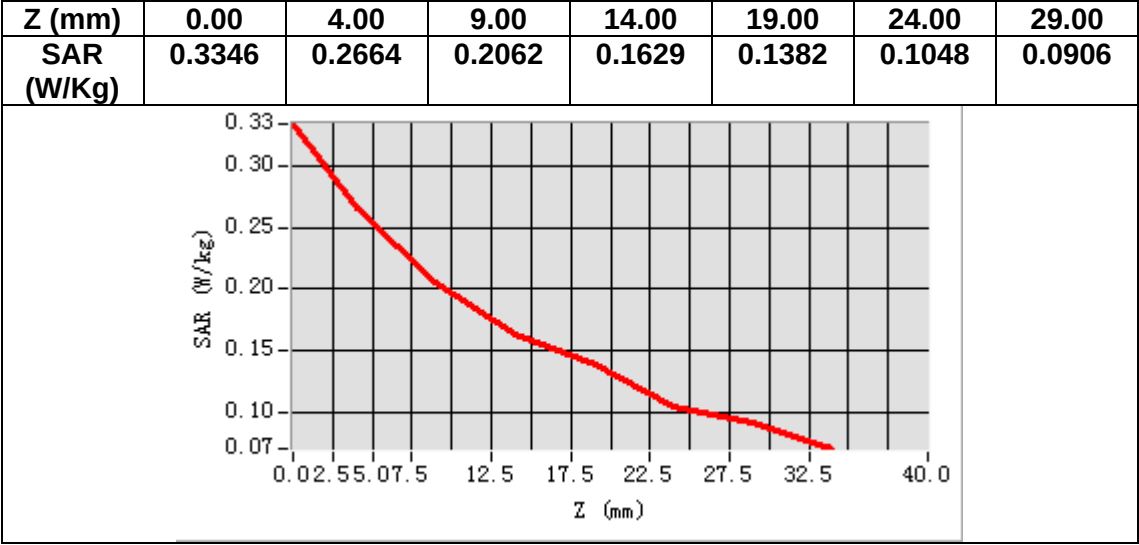
Frequency (MHz)	836.500000
Relative permittivity (real part)	40.843552
Relative permittivity (imaginary part)	19.900200
Conductivity (S/m)	0.924807
Variation (%)	1.650000



Maximum location: X=-51.00, Y=-36.00

SAR Peak: 0.34 W/kg

SAR 10g (W/Kg)	0.199350
SAR 1g (W/Kg)	0.263580



MEASUREMENT 18

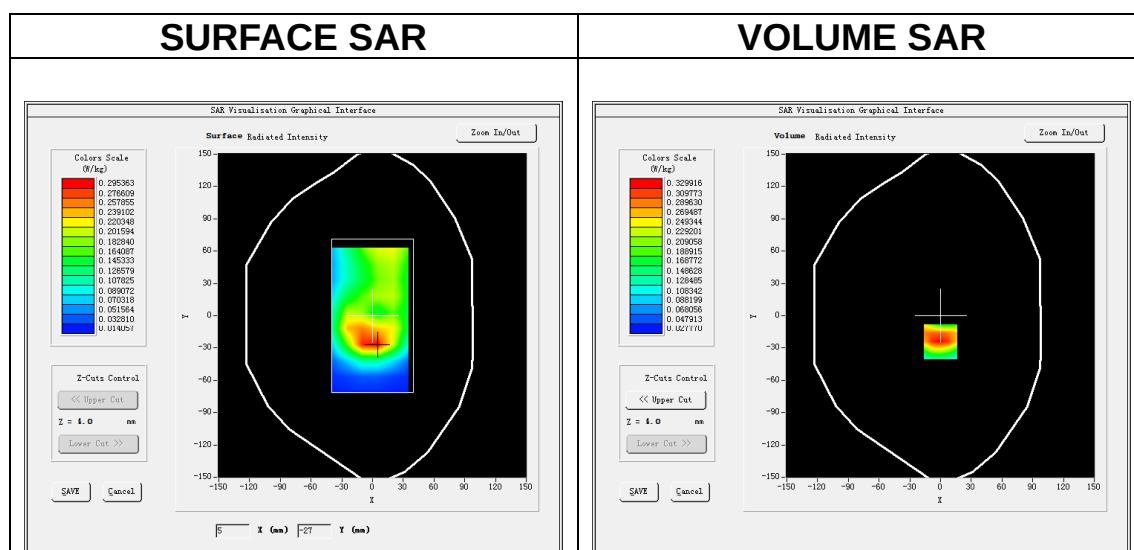
Date of measurement: 3/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

B. SAR Measurement Results

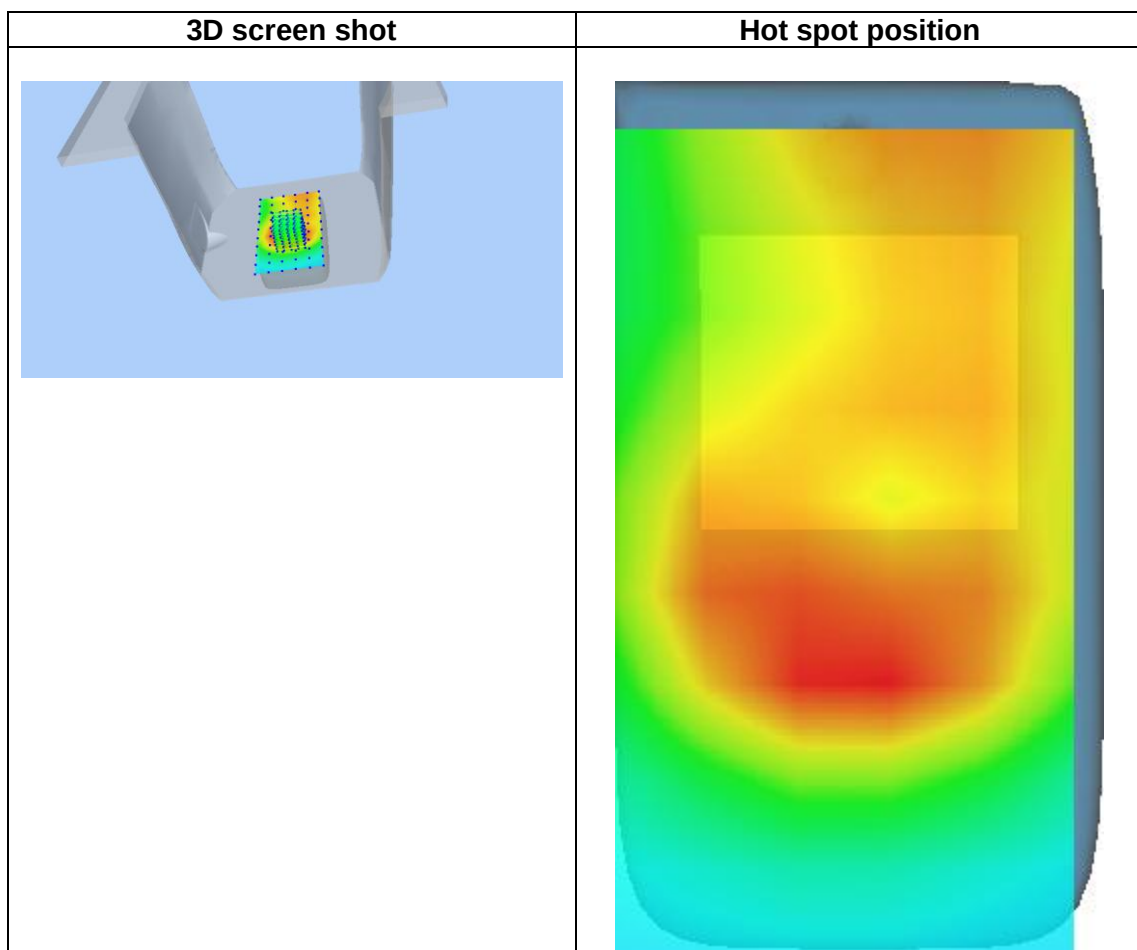
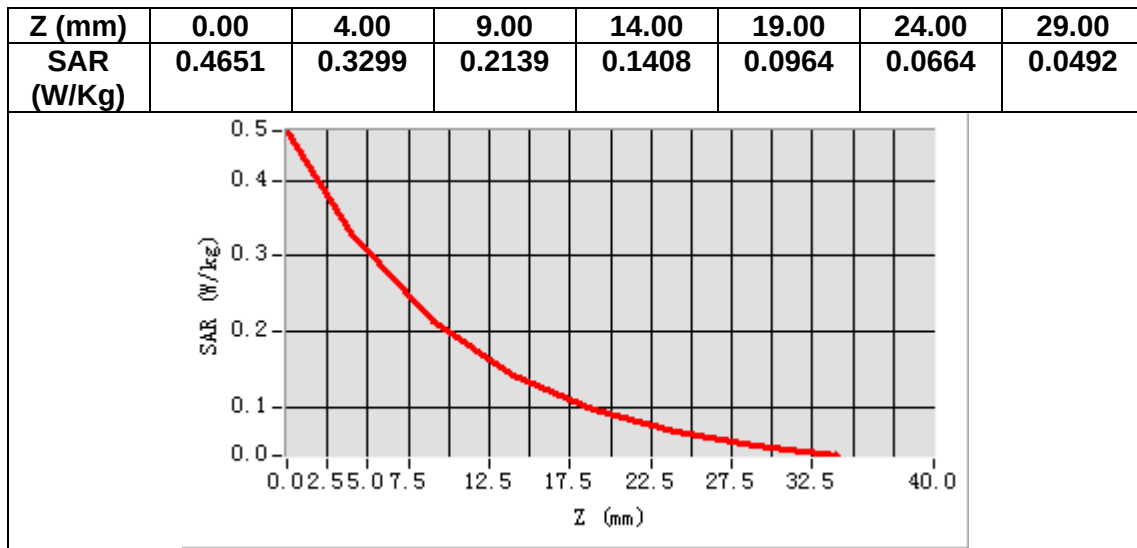
Frequency (MHz)	836.500000
Relative permittivity (real part)	54.673500
Relative permittivity (imaginary part)	21.097000
Conductivity (S/m)	0.980424
Variation (%)	-0.660000



Maximum location: X=0.00, Y=-24.00

SAR Peak: 0.49 W/kg

SAR 10g (W/Kg)	0.193053
SAR 1g (W/Kg)	0.321226



MEASUREMENT 19

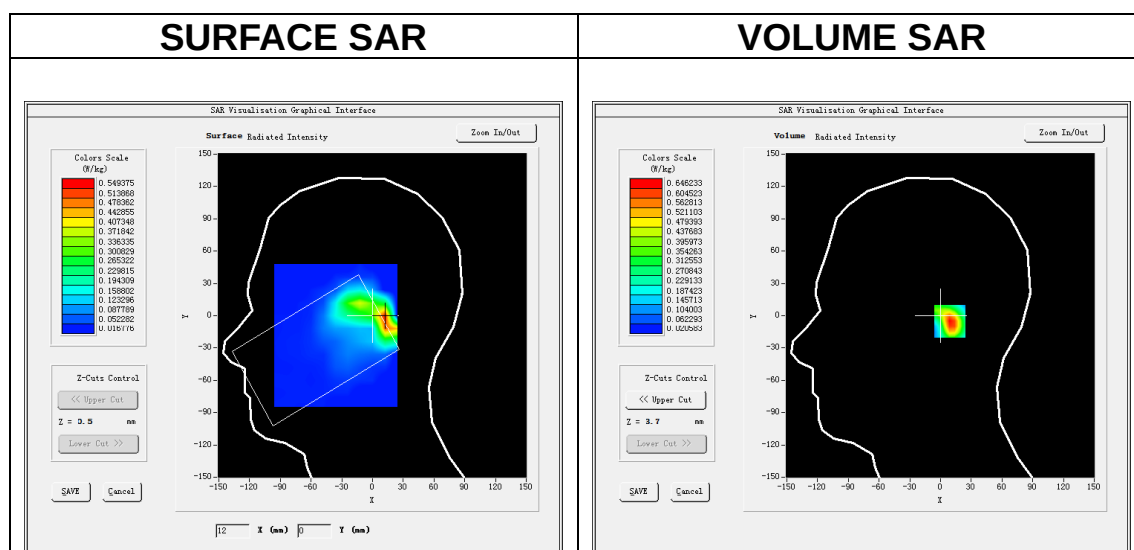
Date of measurement: 5/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

B. SAR Measurement Results

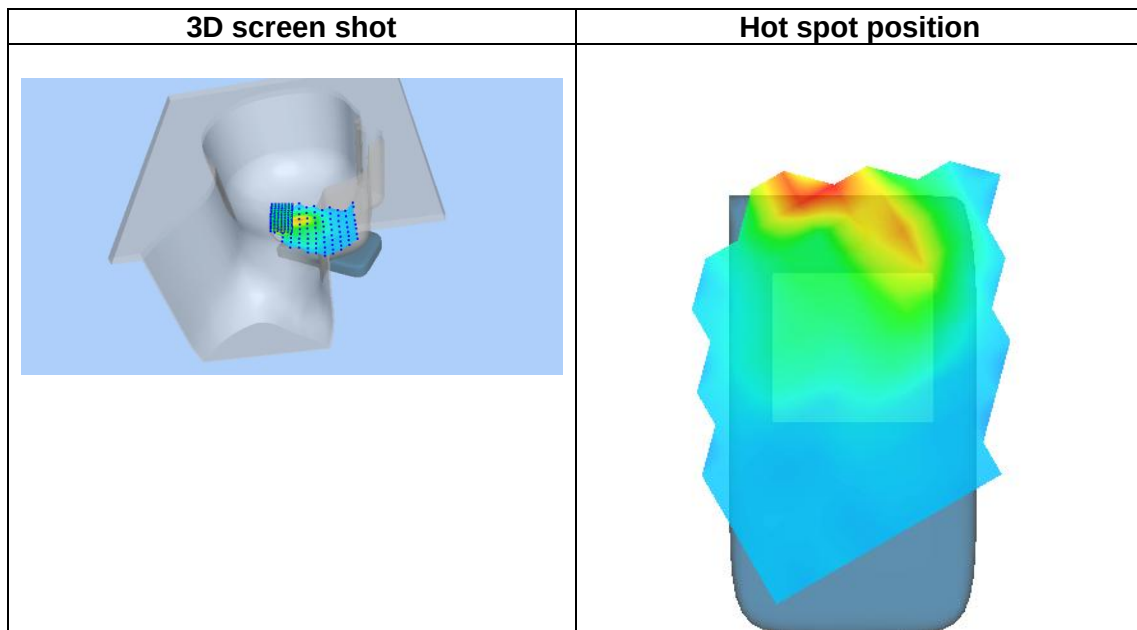
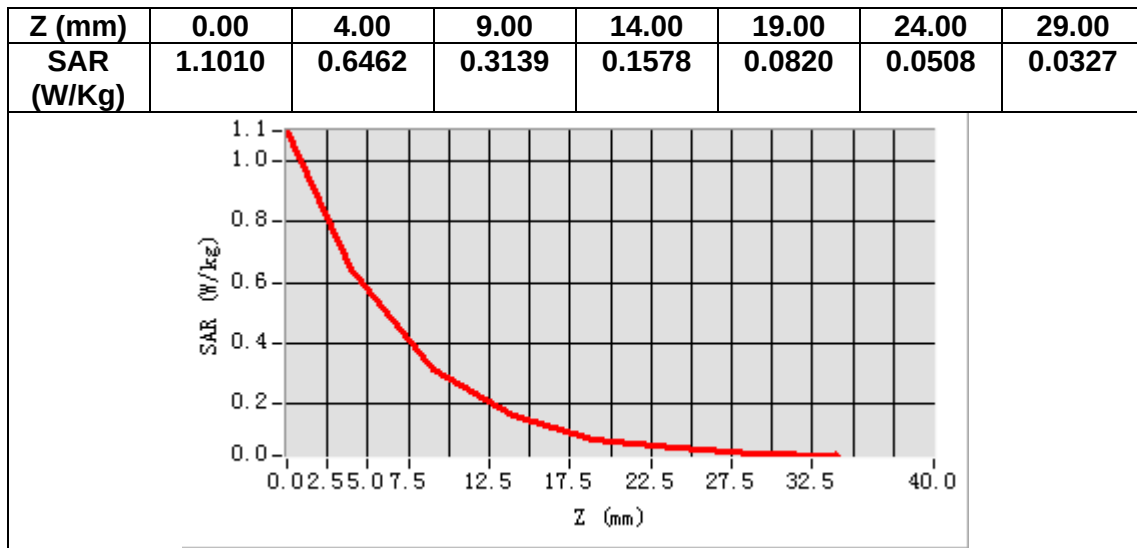
Frequency (MHz)	2535.000000
Relative permittivity (real part)	38.592487
Relative permittivity (imaginary part)	13.801160
Conductivity (S/m)	1.943663
Variation (%)	-0.160000



Maximum location: X=15.00, Y=-5.00

SAR Peak: 1.09 W/kg

SAR 10g (W/Kg)	0.282569
SAR 1g (W/Kg)	0.604484



MEASUREMENT 20

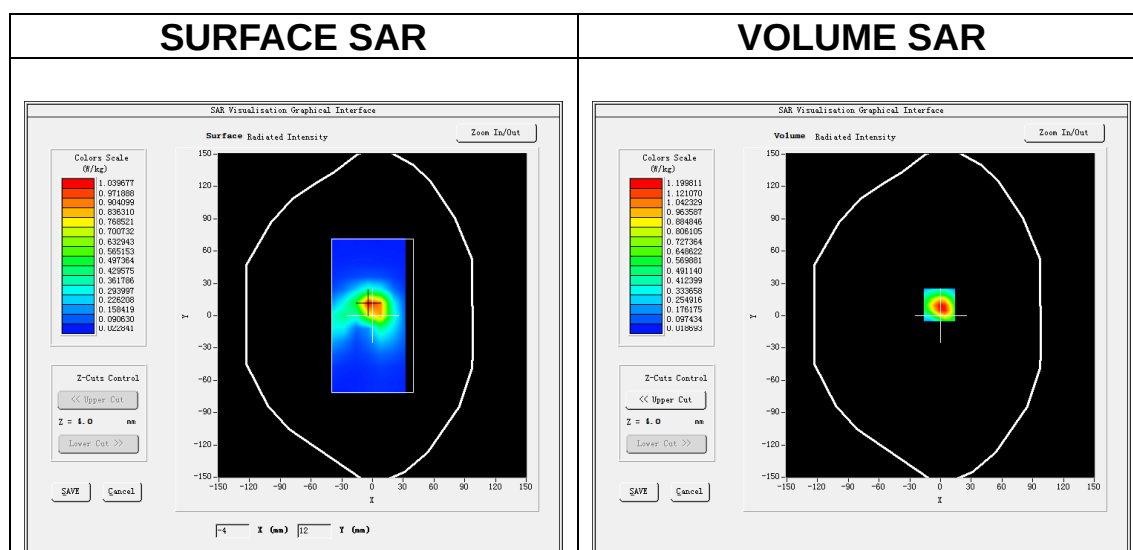
Date of measurement: 7/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</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 (Crest factor: 1.0)</u>

B. SAR Measurement Results

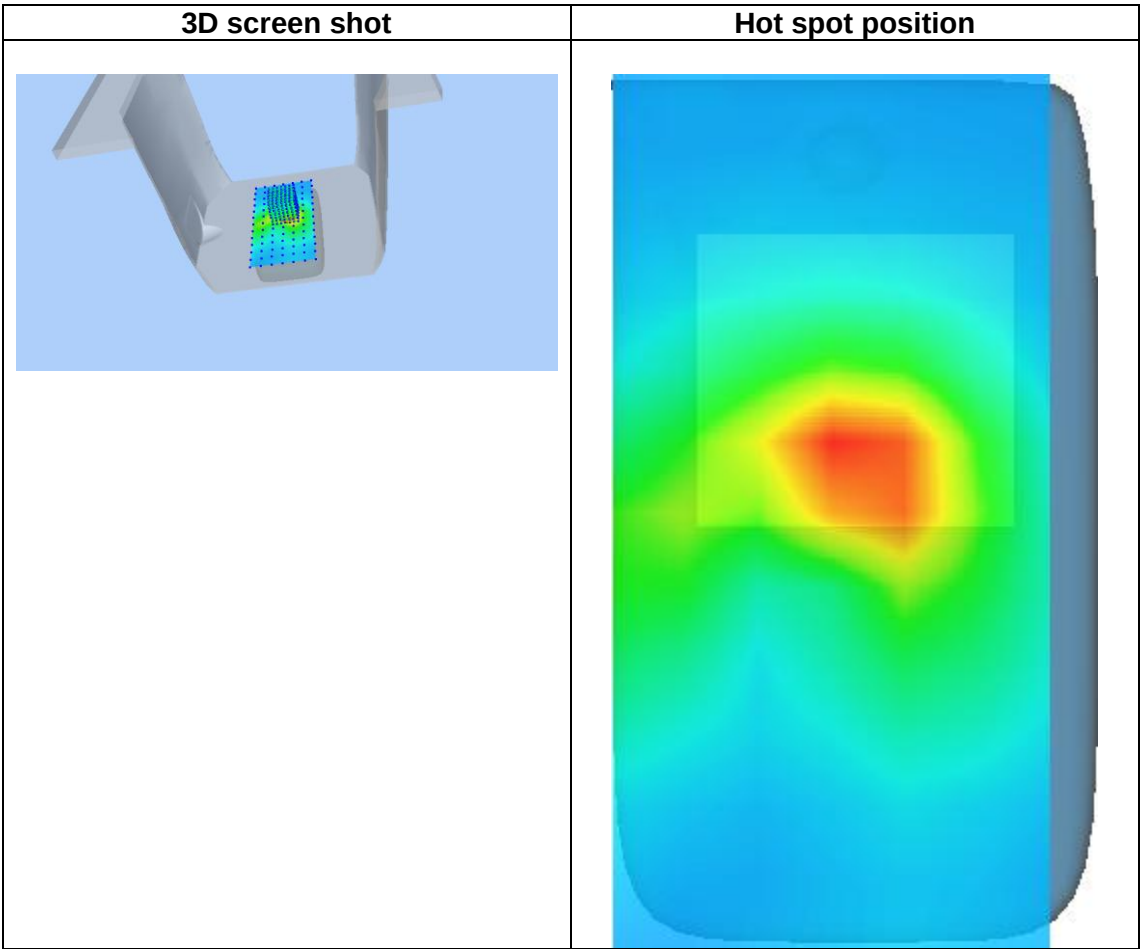
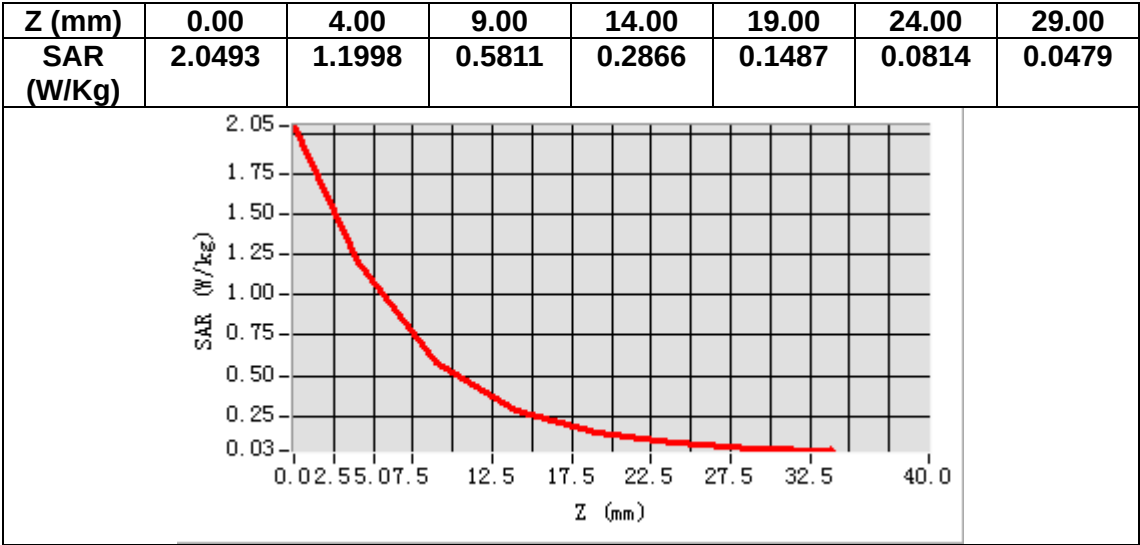
Frequency (MHz)	2560.000000
Relative permittivity (real part)	53.094444
Relative permittivity (imaginary part)	15.245540
Conductivity (S/m)	2.168255
Variation (%)	1.660000



Maximum location: X=-1.00, Y=10.00

SAR Peak: 2.10 W/kg

SAR 10g (W/Kg)	0.515455
SAR 1g (W/Kg)	1.143229



MEASUREMENT 21

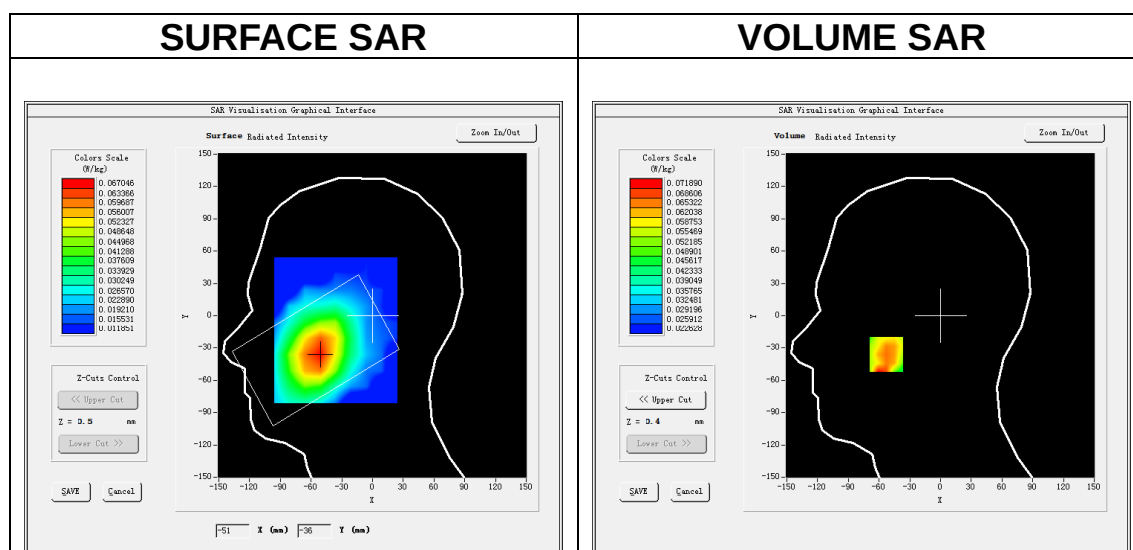
Date of measurement: 2/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 12</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

B. SAR Measurement Results

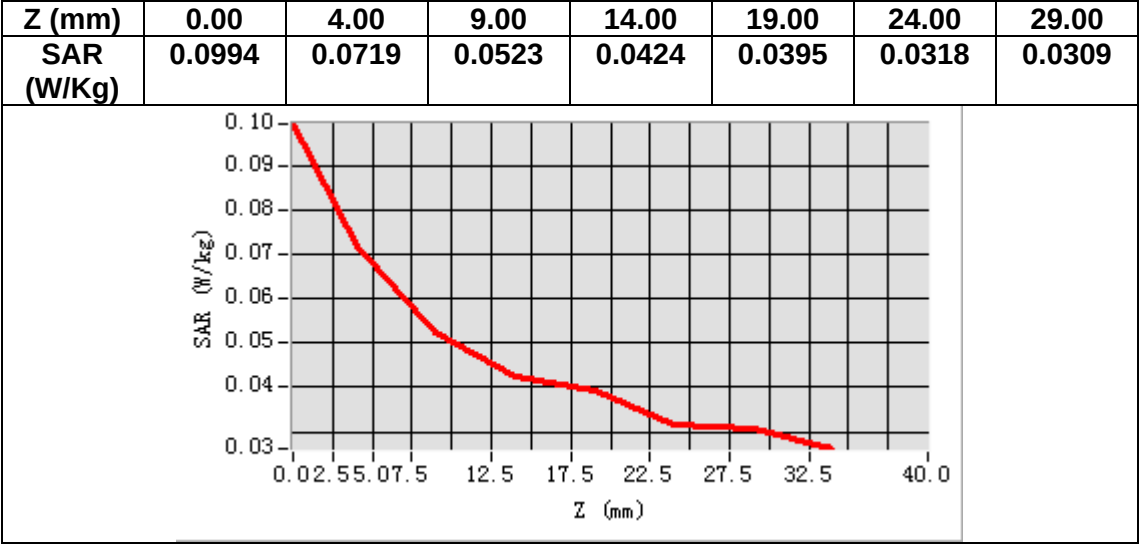
Frequency (MHz)	707.500000
Relative permittivity (real part)	42.380192
Relative permittivity (imaginary part)	21.573252
Conductivity (S/m)	0.847949
Variation (%)	-0.420000



Maximum location: X=-53.00, Y=-36.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.053350
SAR 1g (W/Kg)	0.066201



MEASUREMENT 22

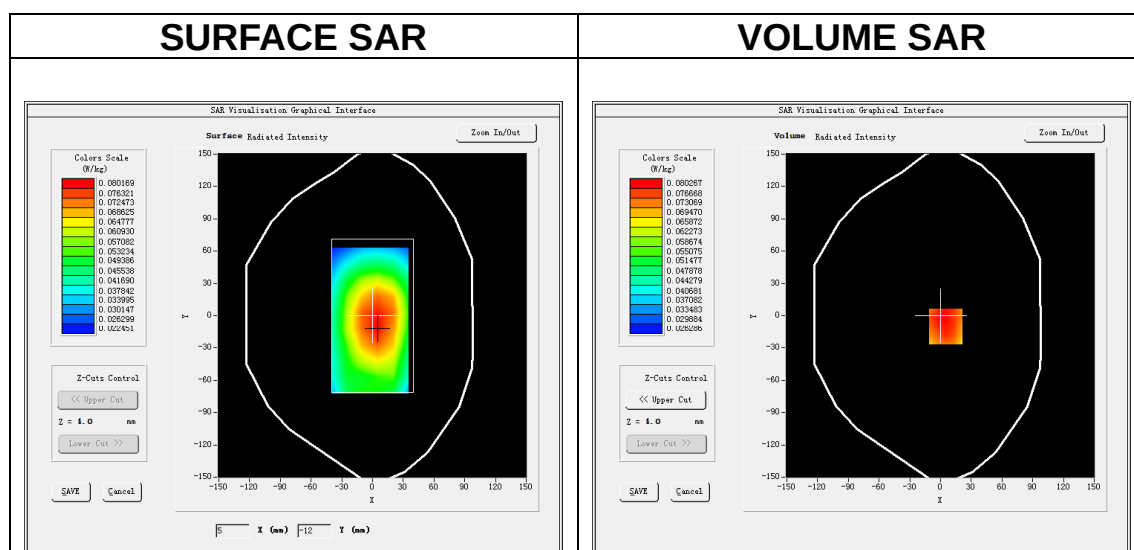
Date of measurement: 2/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 12</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

B. SAR Measurement Results

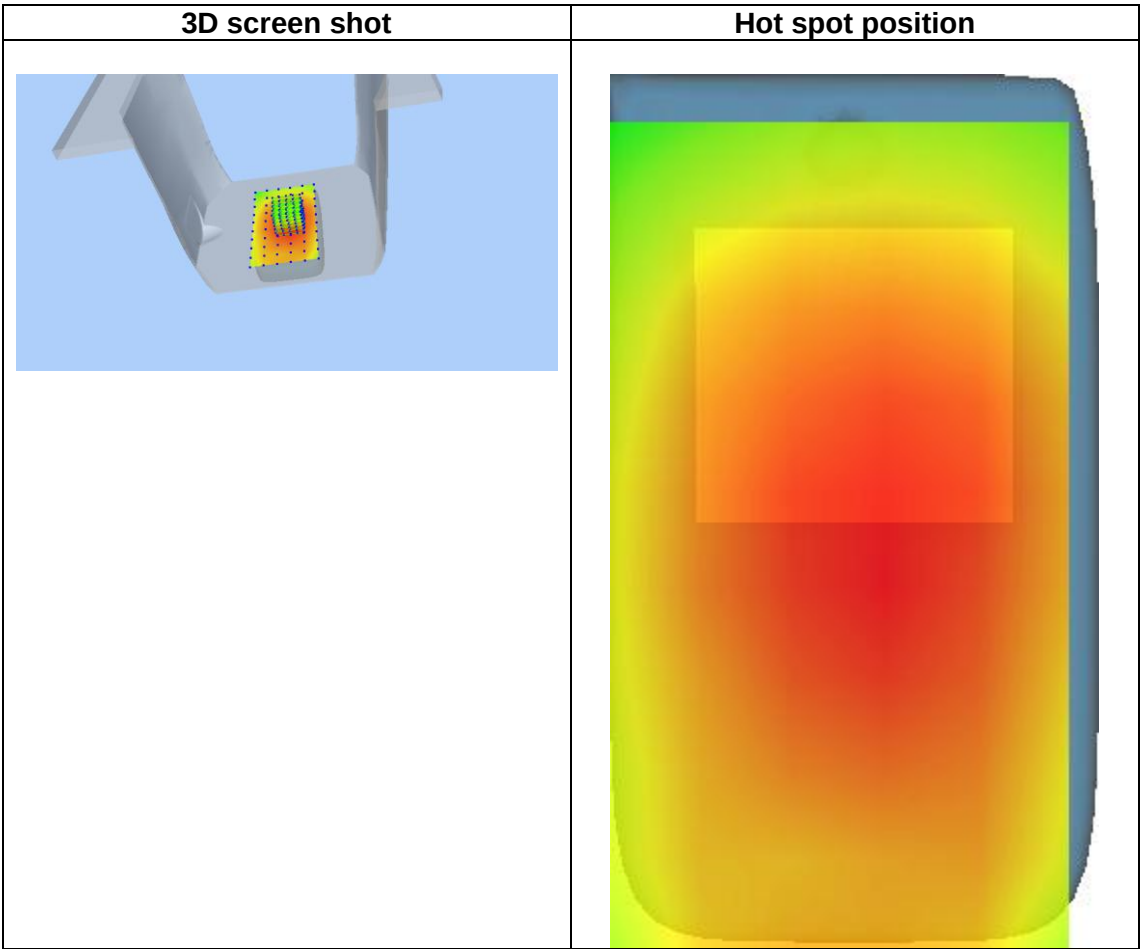
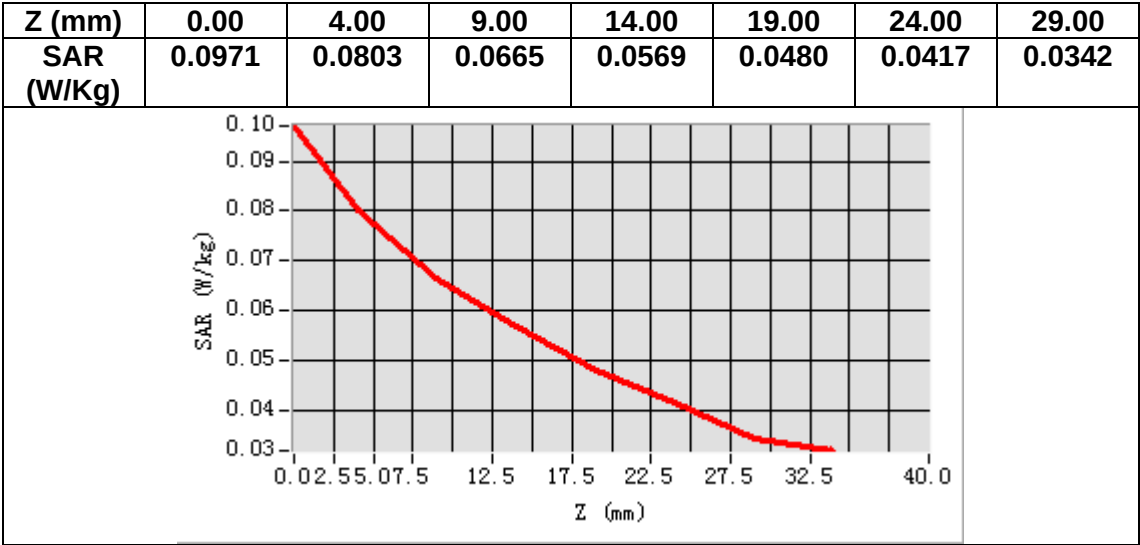
Frequency (MHz)	707.500000
Relative permittivity (real part)	55.751659
Relative permittivity (imaginary part)	23.480850
Conductivity (S/m)	0.922928
Variation (%)	0.090000



Maximum location: X=5.00, Y=-10.00

SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.063720
SAR 1g (W/Kg)	0.078943



MEASUREMENT 23

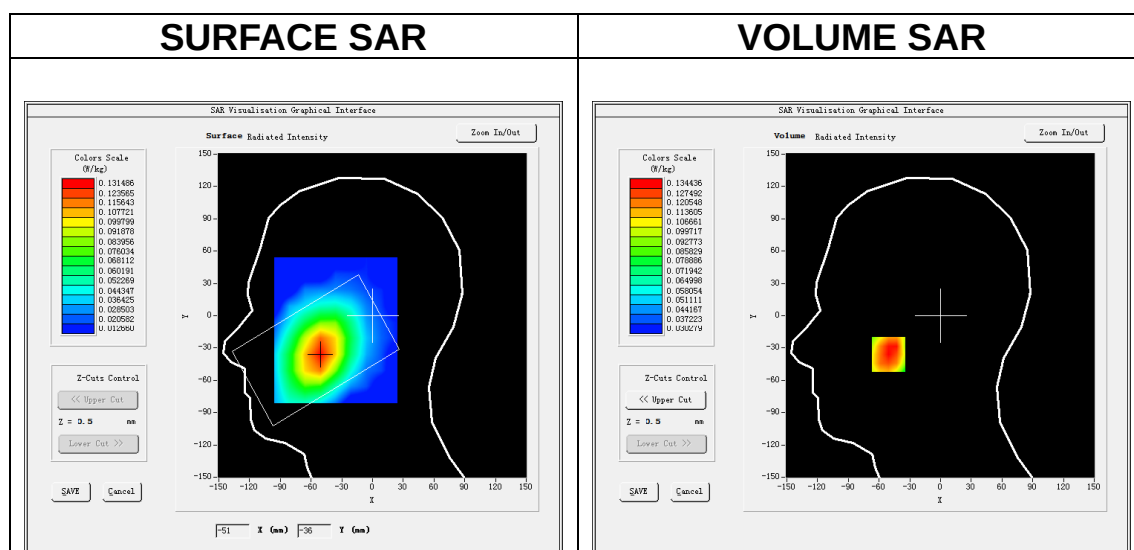
Date of measurement: 2/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 13</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

B. SAR Measurement Results

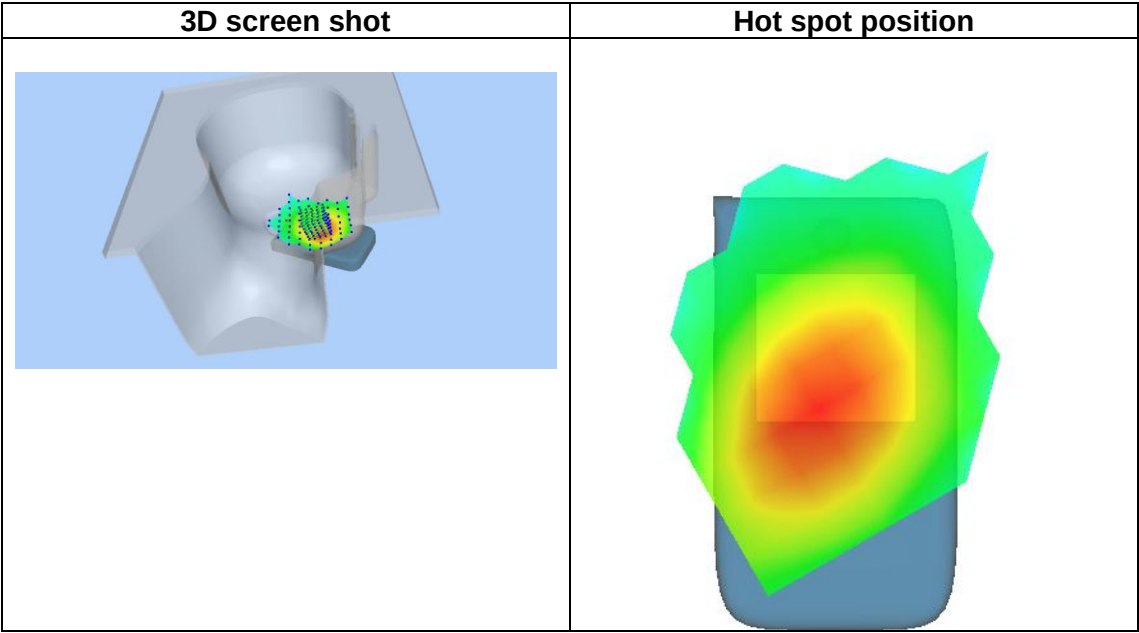
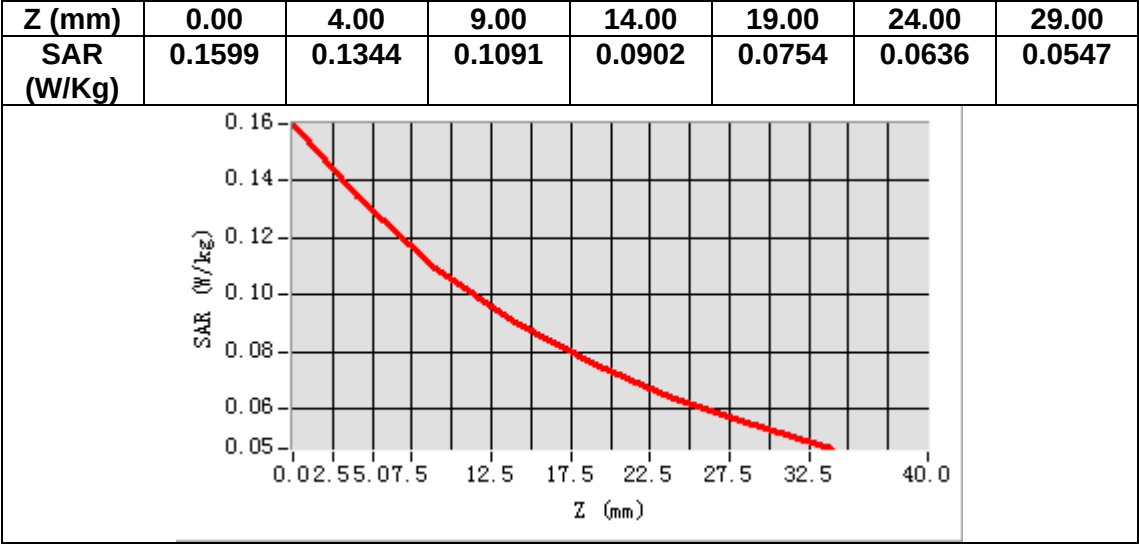
Frequency (MHz)	782.000000
Relative permittivity (real part)	41.422142
Relative permittivity (imaginary part)	20.930450
Conductivity (S/m)	0.908730
Variation (%)	0.700000



Maximum location: X=-51.00, Y=-36.00

SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.101080
SAR 1g (W/Kg)	0.133121



MEASUREMENT 24

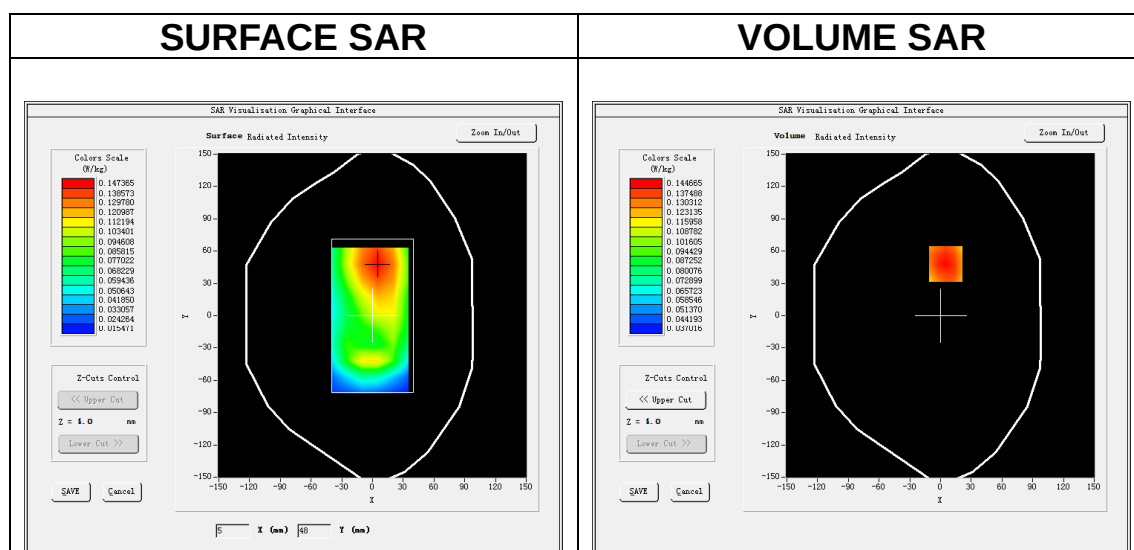
Date of measurement: 2/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 13</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

B. SAR Measurement Results

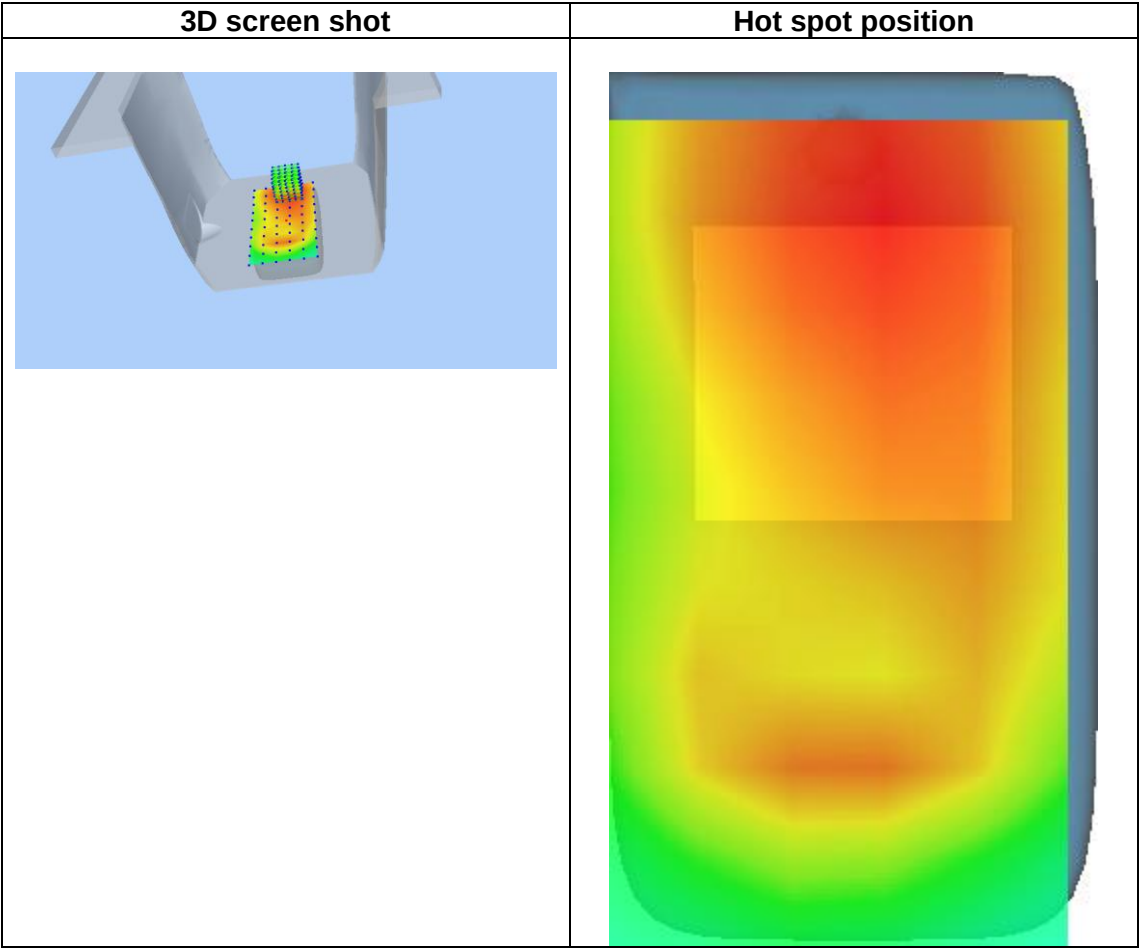
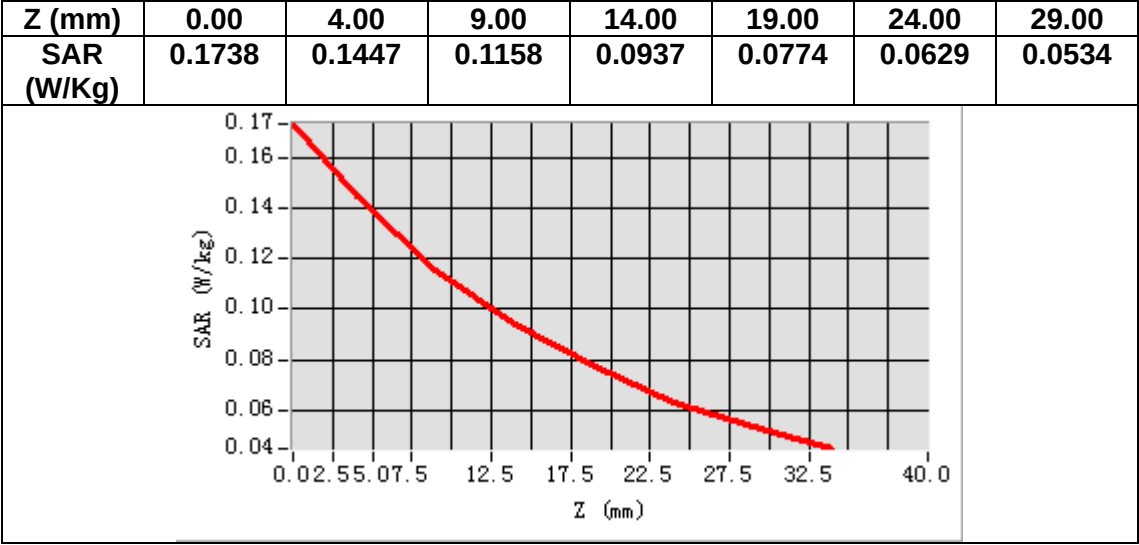
Frequency (MHz)	782.000000
Relative permittivity (real part)	55.221760
Relative permittivity (imaginary part)	23.255301
Conductivity (S/m)	1.009668
Variation (%)	-0.180000



Maximum location: X=5.00, Y=48.00

SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.111785
SAR 1g (W/Kg)	0.144978



MEASUREMENT 25

Date of measurement: 2/11/2020

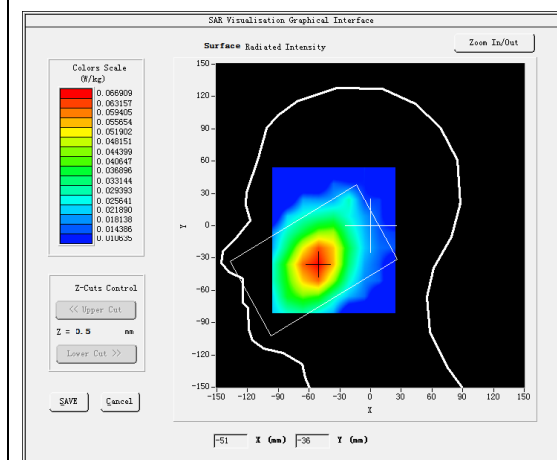
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 17</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

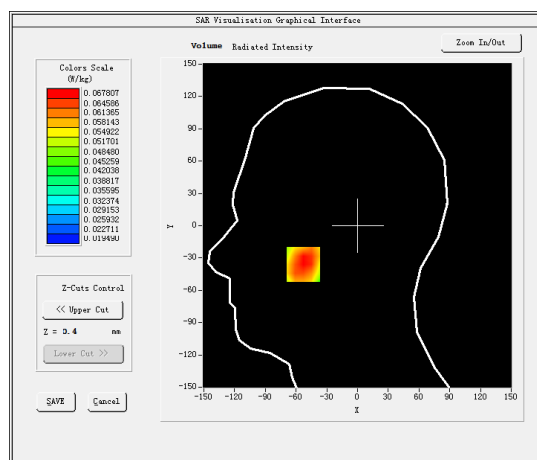
B. SAR Measurement Results

Frequency (MHz)	710.000000
Relative permittivity (real part)	42.358940
Relative permittivity (imaginary part)	21.601650
Conductivity (S/m)	0.852065
Variation (%)	0.760000

SURFACE SAR



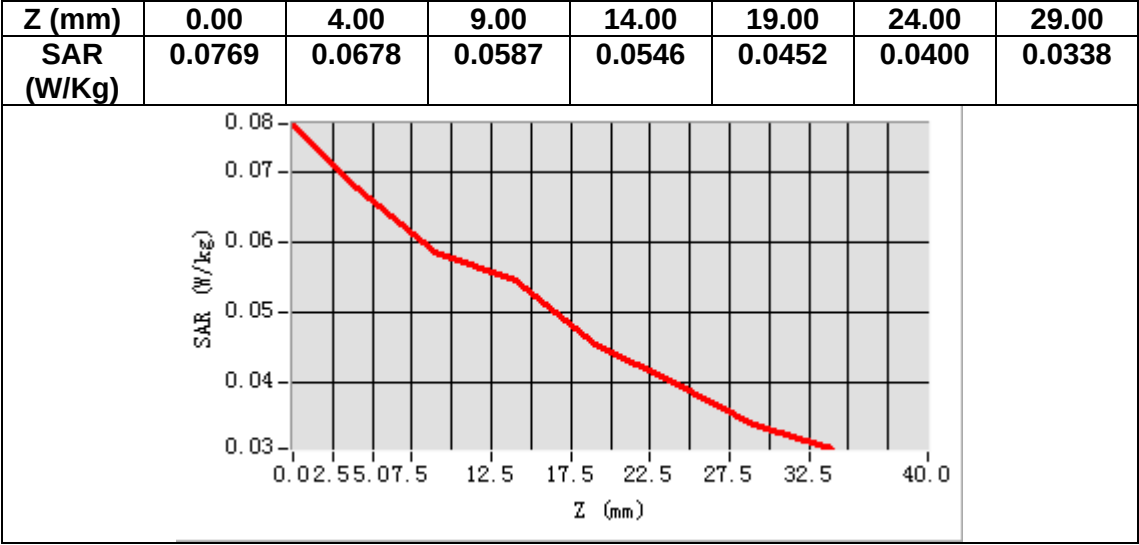
VOLUME SAR



Maximum location: X=-53.00, Y=-36.00

SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.054217
SAR 1g (W/Kg)	0.068917



MEASUREMENT 26

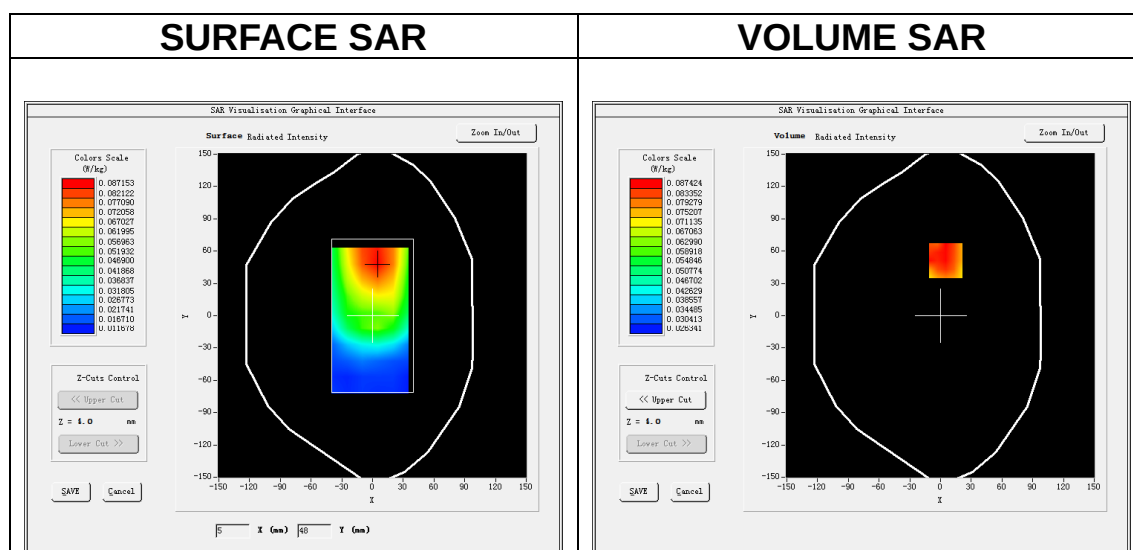
Date of measurement: 2/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 17</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

B. SAR Measurement Results

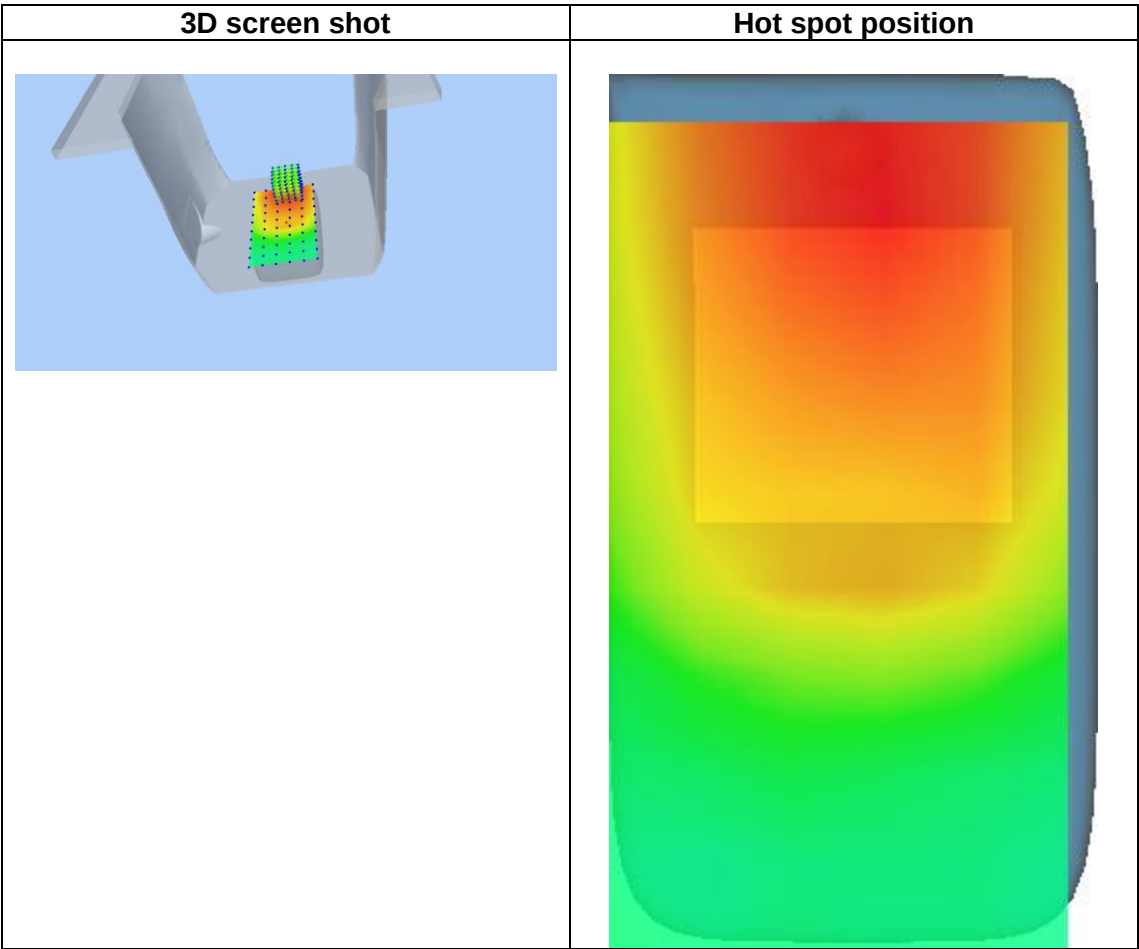
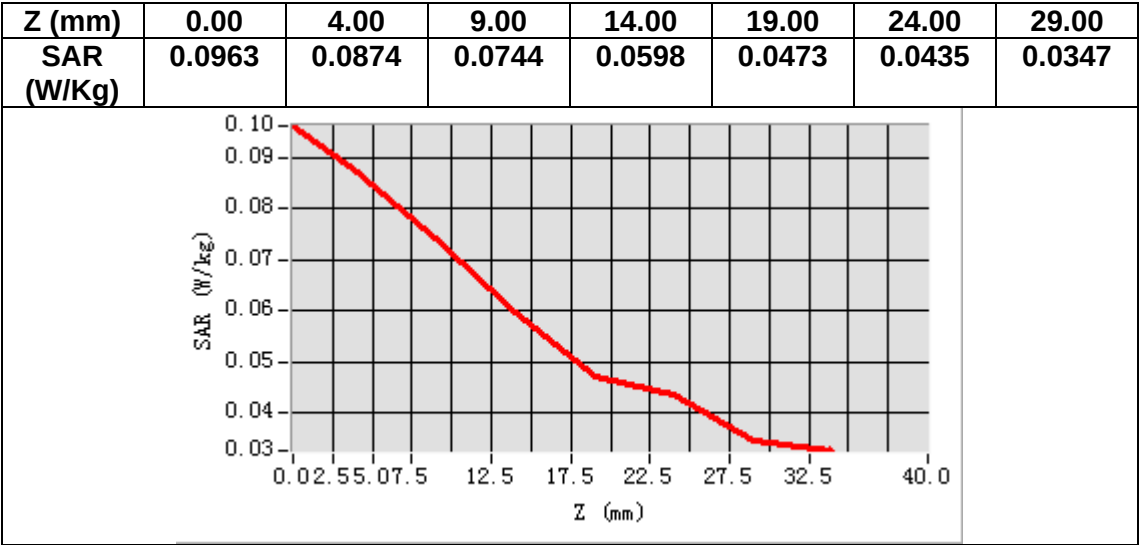
Frequency (MHz)	710.000000
Relative permittivity (real part)	55.773762
Relative permittivity (imaginary part)	23.409500
Conductivity (S/m)	0.923375
Variation (%)	2.150000



Maximum location: X=5.00, Y=51.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.068673
SAR 1g (W/Kg)	0.085150



MEASUREMENT 27

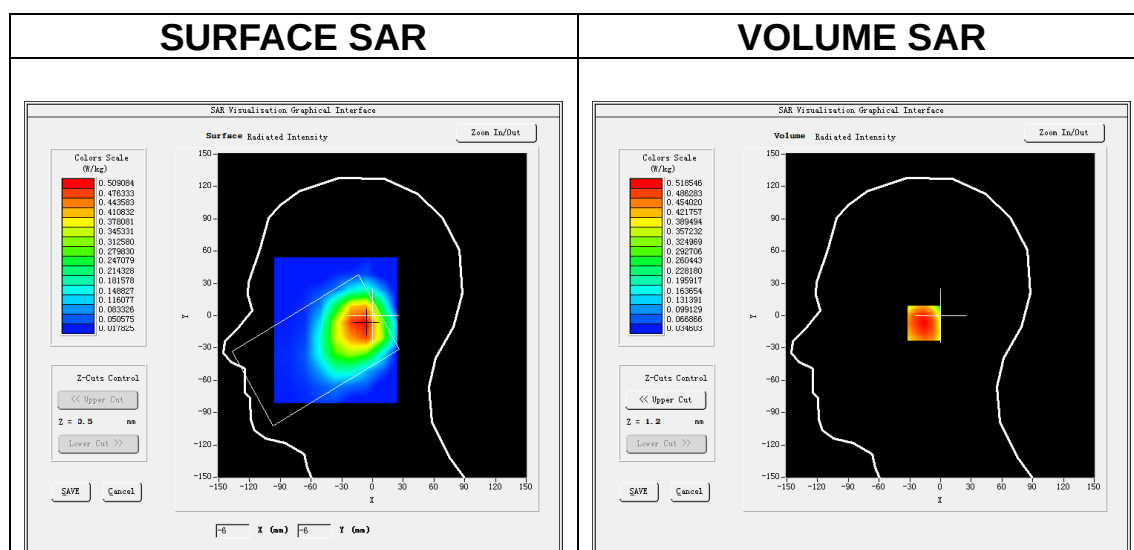
Date of measurement: 4/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 66</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

B. SAR Measurement Results

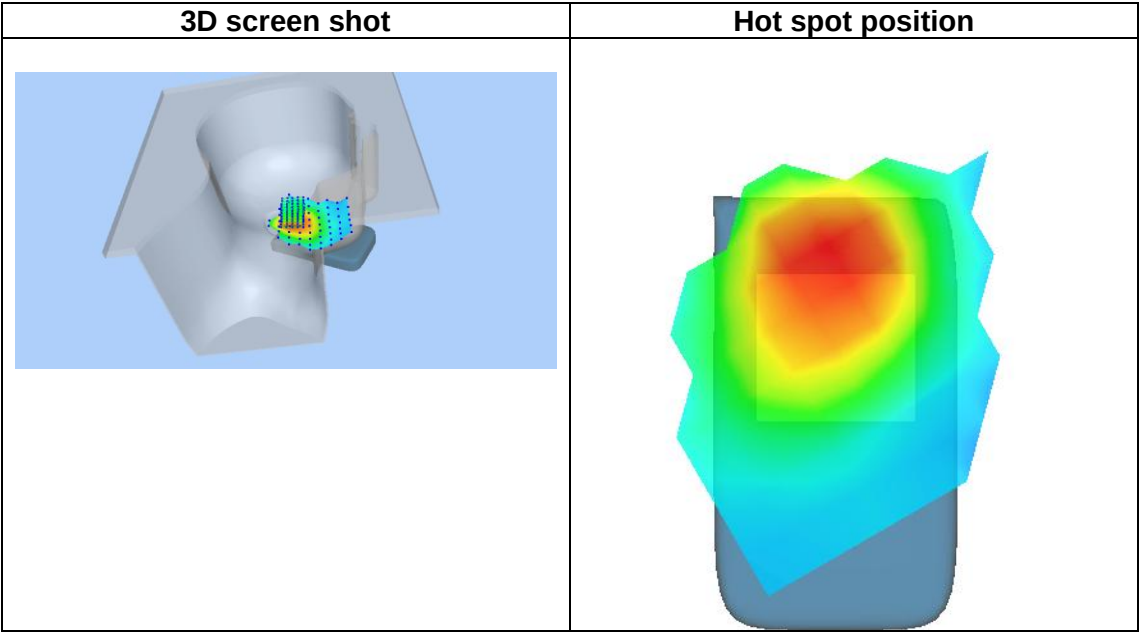
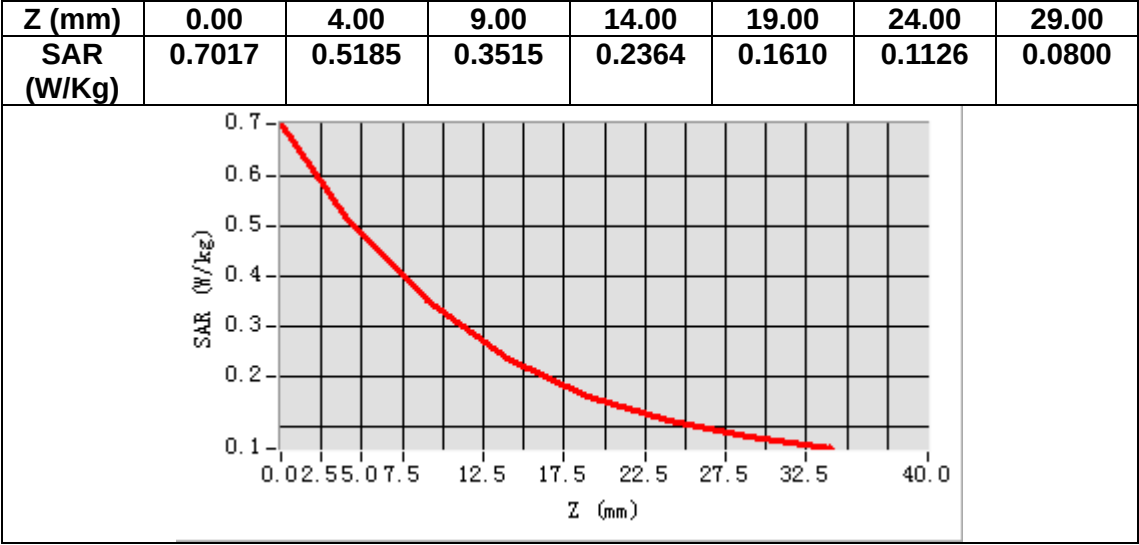
Frequency (MHz)	1745.000000
Relative permittivity (real part)	39.183491
Relative permittivity (imaginary part)	13.668142
Conductivity (S/m)	1.325050
Variation (%)	-2.930000



Maximum location: X=-10.00, Y=-7.00

SAR Peak: 0.73 W/kg

SAR 10g (W/Kg)	0.329567
SAR 1g (W/Kg)	0.498370



MEASUREMENT 28

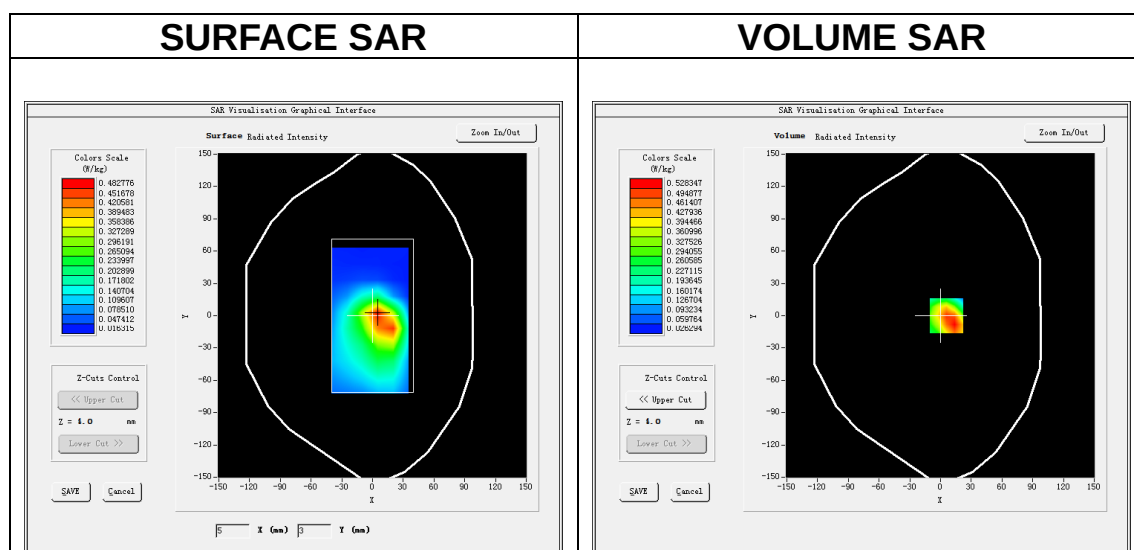
Date of measurement: 10/11/2020

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 66</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

B. SAR Measurement Results

Frequency (MHz)	1745.000000
Relative permittivity (real part)	54.496265
Relative permittivity (imaginary part)	15.087170
Conductivity (S/m)	1.462617
Variation (%)	-0.140000



Maximum location: X=6.00, Y=0.00

SAR Peak: 0.80 W/kg

SAR 10g (W/Kg)	0.289891
SAR 1g (W/Kg)	0.500700

