

Appendix A: SAR System performance Check Plots

Measurement	Liquid	Frequency	Test Date
System Check	Body	835	2021-04-12
System Check	Body	2450	2021-04-16
System Check	Body	2600	2021-04-16
System Check	Body	5200	2021-04-17
System Check	Body	5800	2021-04-17

System Performance Check (Body, 835MHz)

Type: Phone measurement

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

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

Date of measurement: 04/12/2021

Measurement duration: 22 minutes 09 seconds

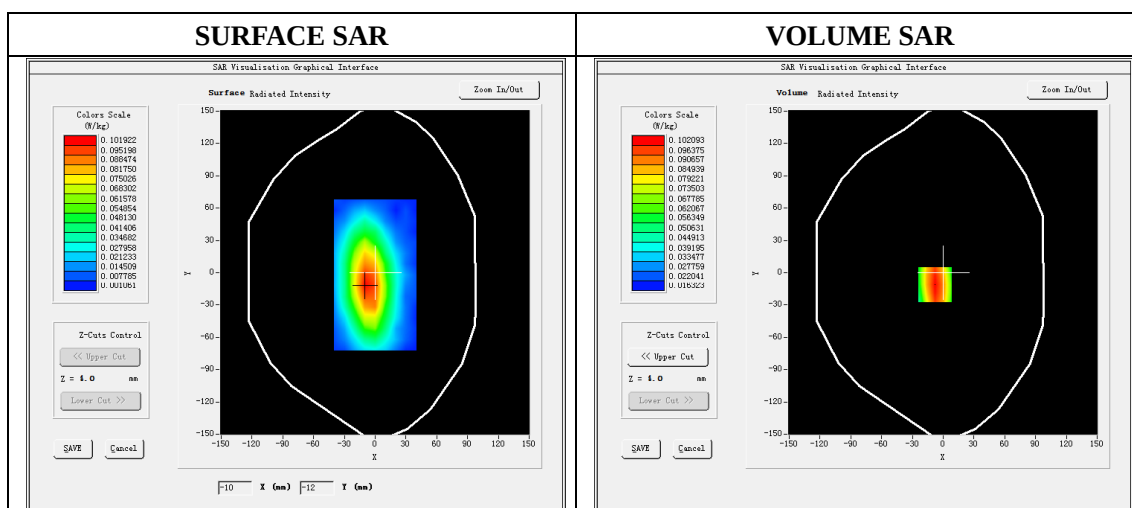
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	5x5x7,dx=8mm dy=8mm dz=5mm
Device Position	Dipole
Band	835MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

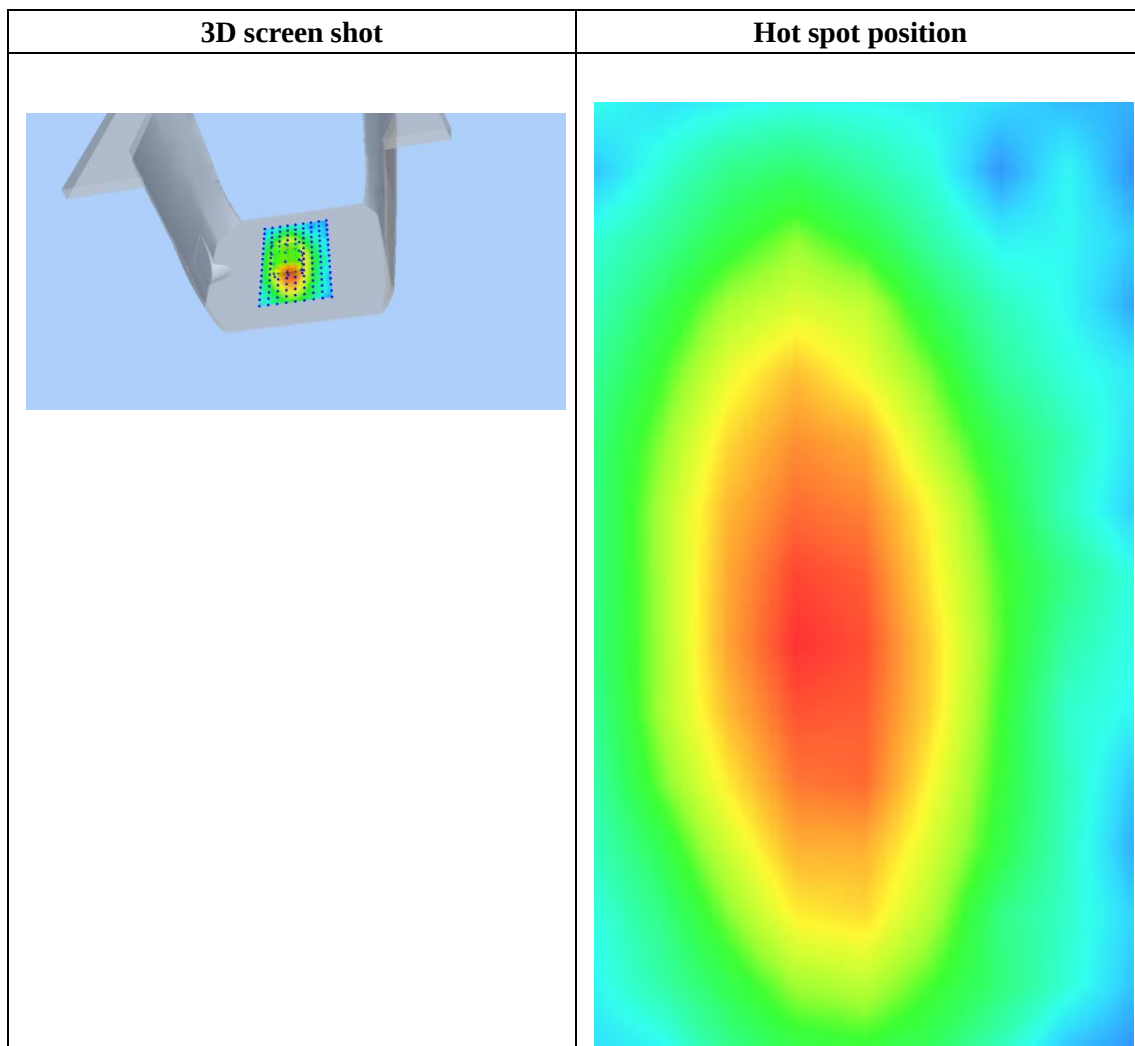
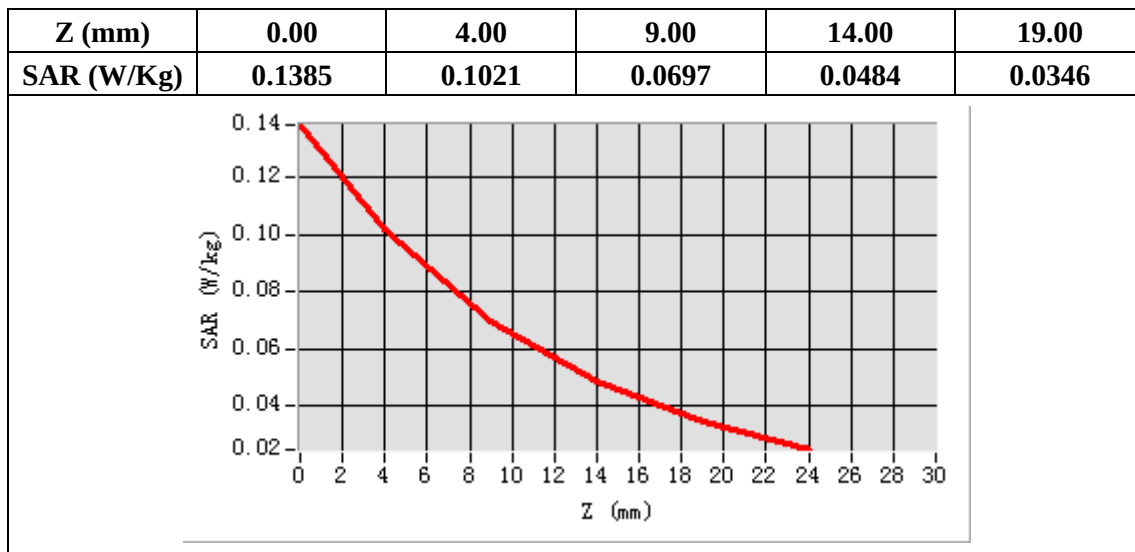
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	835
Relative permittivity (real part)	55.23
Relative permittivity	20.91
Conductivity (S/m)	0.97
Power drift (%)	-1.51
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	1.90
Crest factor:	1:1



Maximum location: X=-8.00, Y=-11.00

SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.065502
SAR 1g (W/Kg)	0.098979



System Performance Check (Body, 2450MHz)

Type: Phone measurement

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

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

Date of measurement: 04/16/2021

Measurement duration: 22 minutes 04 seconds

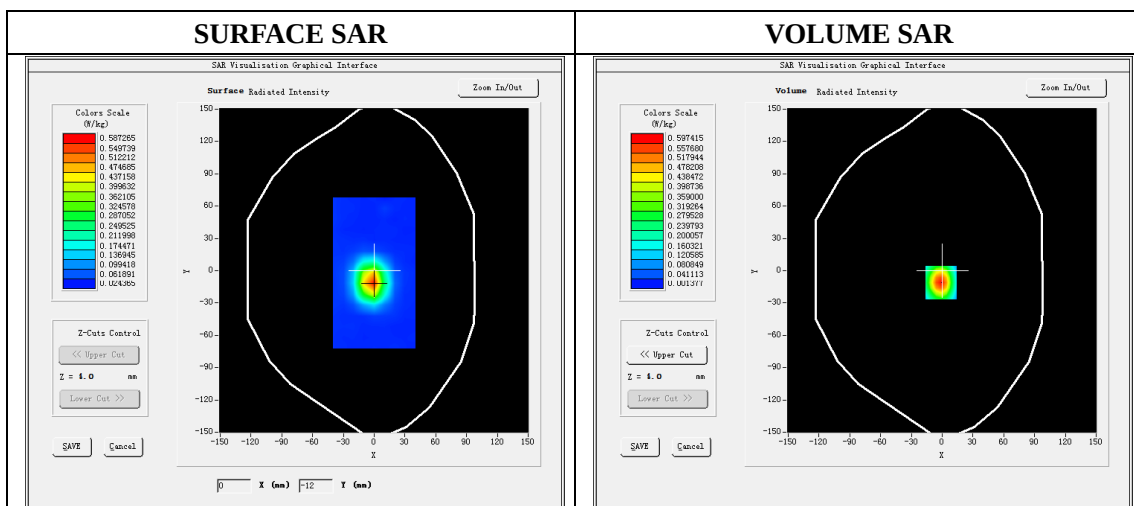
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	7x7x8,dx=5mm dy=5mm dz=4mm
Device Position	Dipole
Band	2450MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

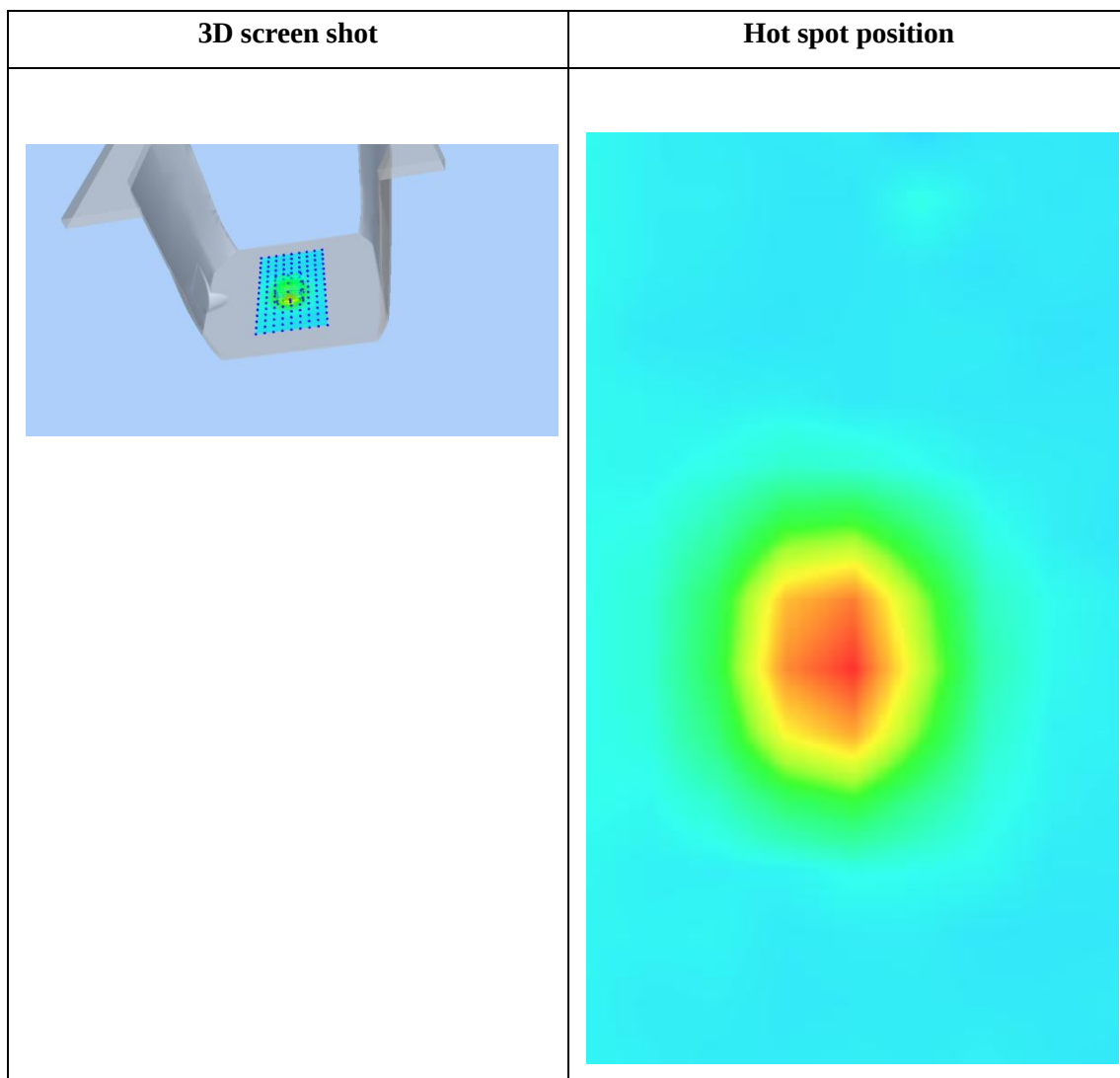
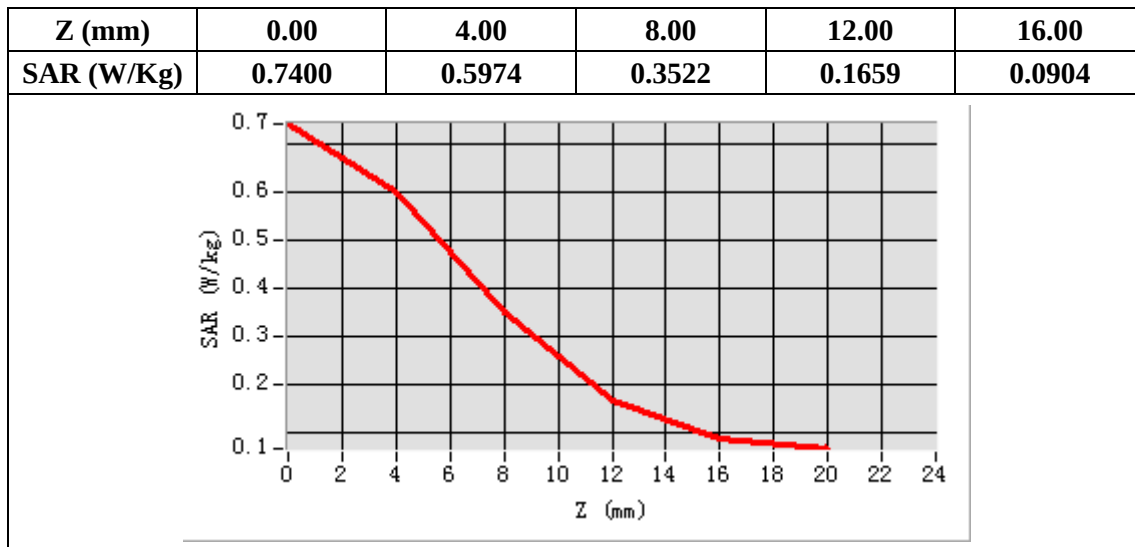
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2450
Relative permittivity (real part)	52.72
Relative permittivity	14.25
Conductivity (S/m)	1.94
Power Drift (%)	-0.87
Ambient Temperature:	22.1°C
Liquid Temperature:	22.6°C
ConvF:	2.47
Duty factor:	1:1



Maximum location: X=-1.00, Y=-11.00

SAR Peak: 1.00 W/kg

SAR 10g (W/Kg)	0.266877
SAR 1g (W/Kg)	0.544933



System Performance Check (Body, 2600MHz)

Type: Phone measurement

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

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

Date of measurement: 04/16/2021

Measurement duration: 22 minutes 06 seconds

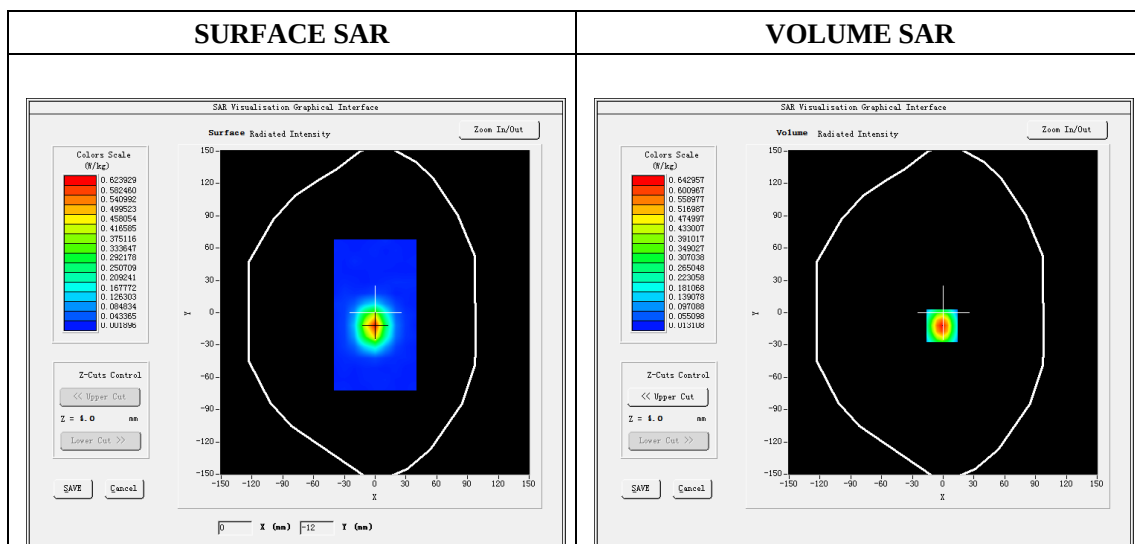
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	7x7x8,dx=5mm dy=5mm dz=4mm
Device Position	Dipole
Band	2600MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

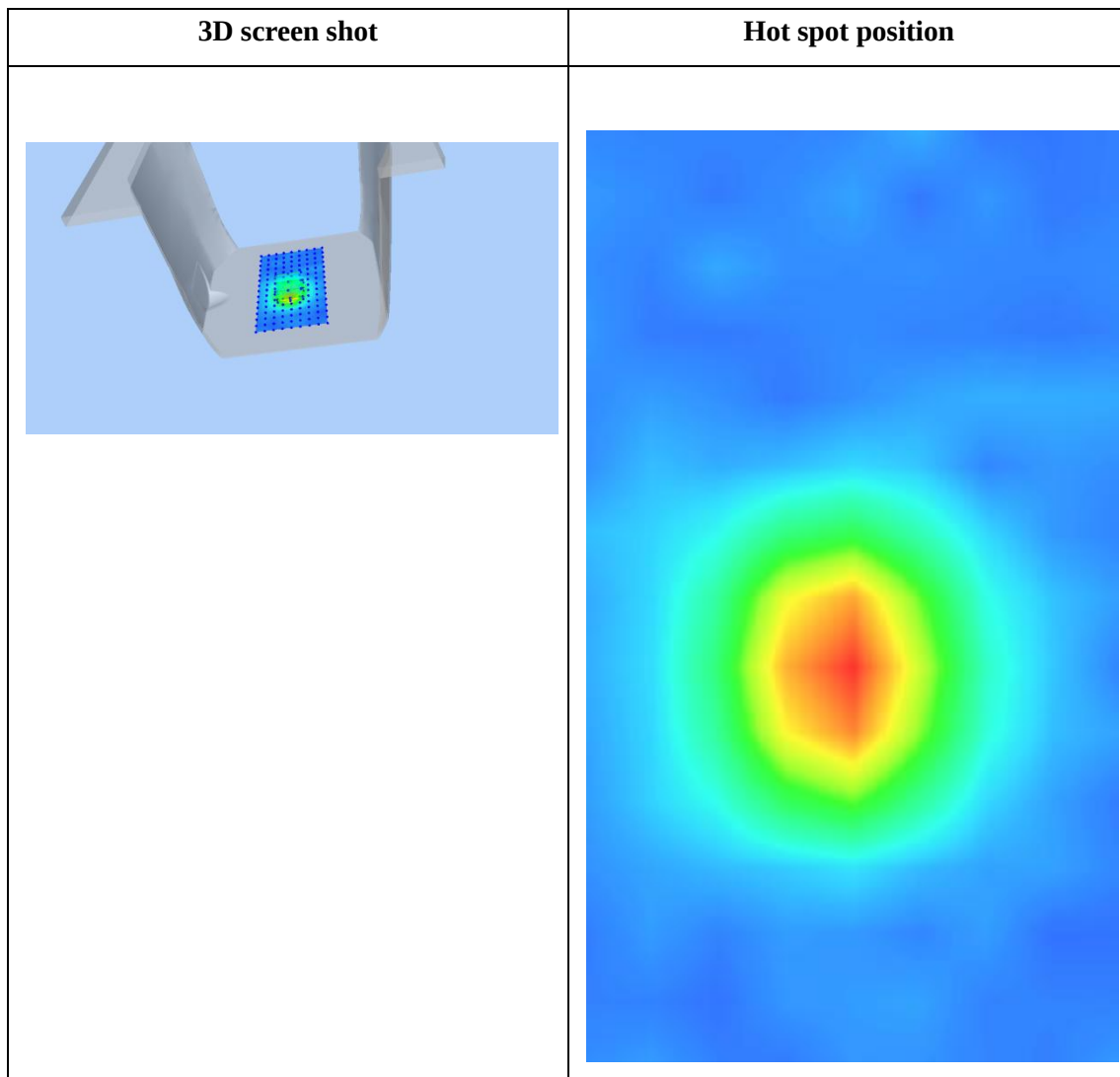
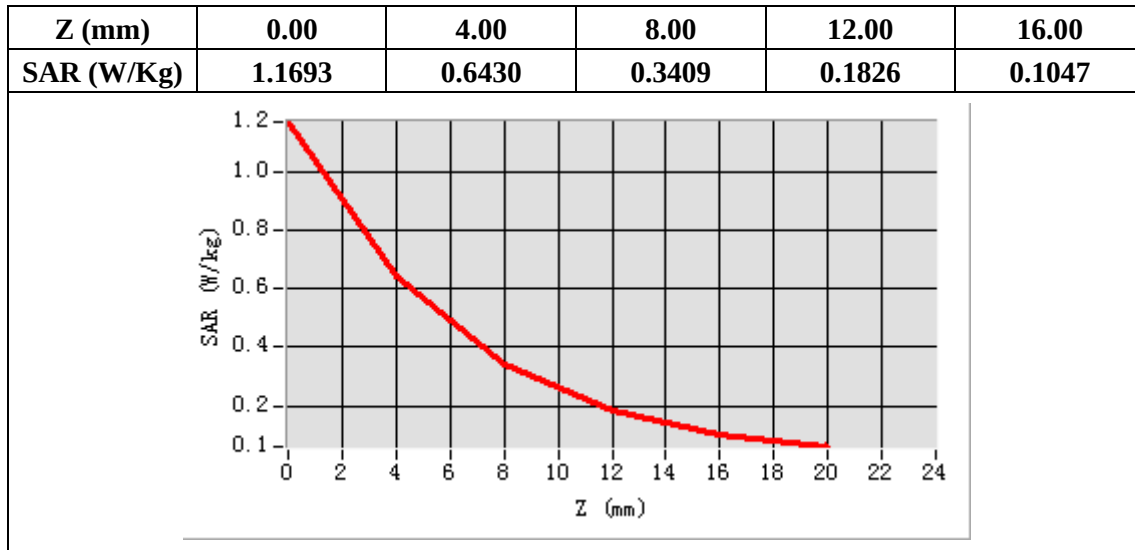
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2600
Relative permittivity (real part)	52.54
Relative permittivity	15.09
Conductivity (S/m)	2.18
Power drift (%)	-0.90
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
Crest factor:	1:1
ConvF:	2.25



Maximum location: X=-1.00, Y=-12.00

SAR Peak: 1.17 W/kg

SAR 10g (W/Kg)	0.263229
SAR 1g (W/Kg)	0.579673



System Performance Check (Body, 5200MHz)

Type: Phone measurement

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

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

Date of measurement: 04/17/2021

Measurement duration: 22 minutes 08 seconds

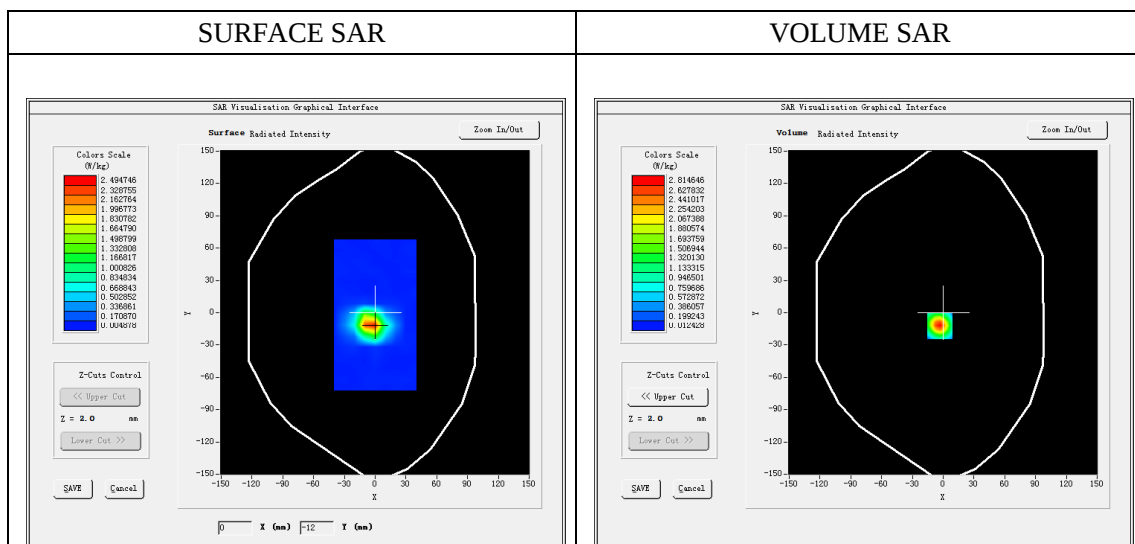
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	7x7x8,dx=4mm dy=4mm dz=2mm
Device Position	Dipole
Band	5200MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	5200
Relative permittivity (real part)	49.05
Relative permittivity	18.45
Conductivity (S/m)	5.33
Power drift (%)	-1.10
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
Crest factor:	1:1
ConvF:	2.09

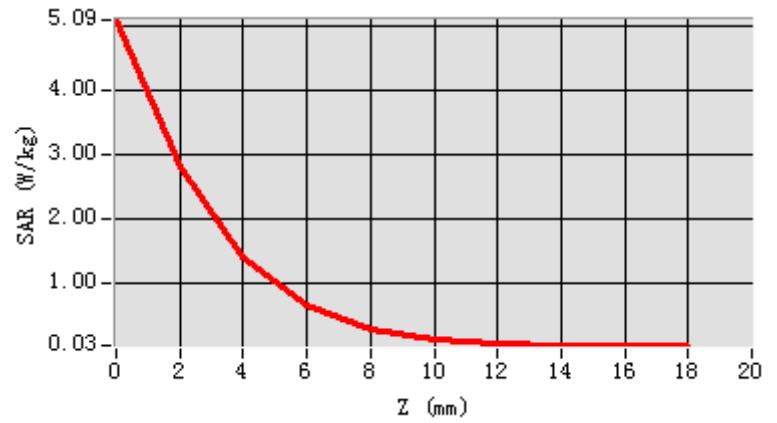


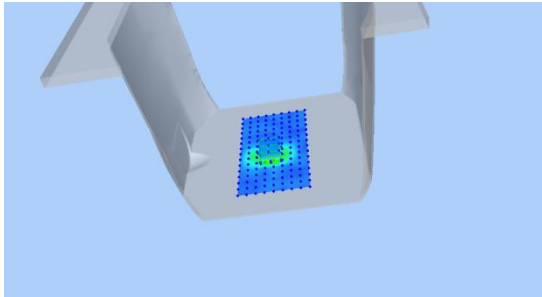
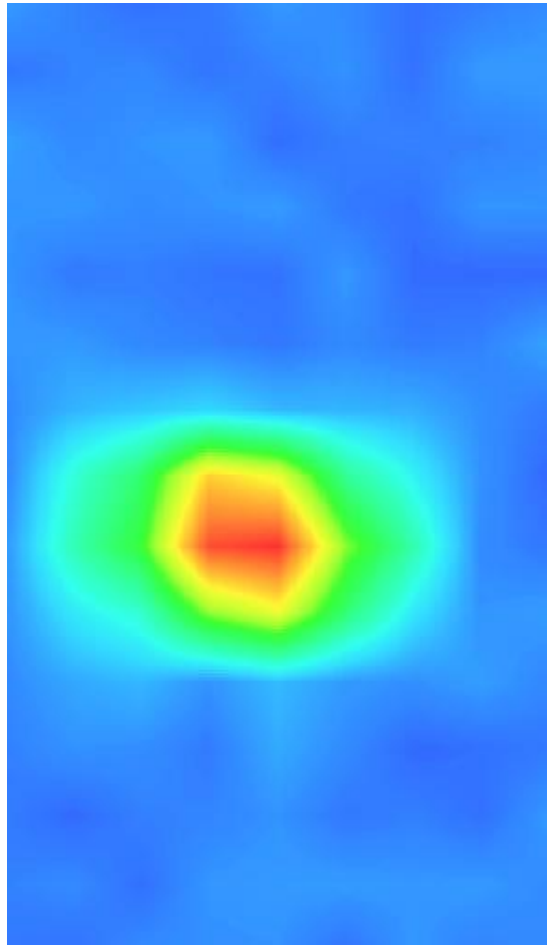
Maximum location: X=-3.00, Y=-12.00

SAR Peak: 5.30 W/kg

SAR 10g (W/Kg)	0.421749
SAR 1g (W/Kg)	1.482778

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	5.0876	2.8146	1.4193	0.6539	0.2869	0.1253	0.0603	0.0368	0.0306



3D screen shot	Hot spot position
	

System Performance Check (Body, 5800MHz)

Type: Phone measurement

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

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

Date of measurement: 04/17/2021

Measurement duration: 22 minutes 01 seconds

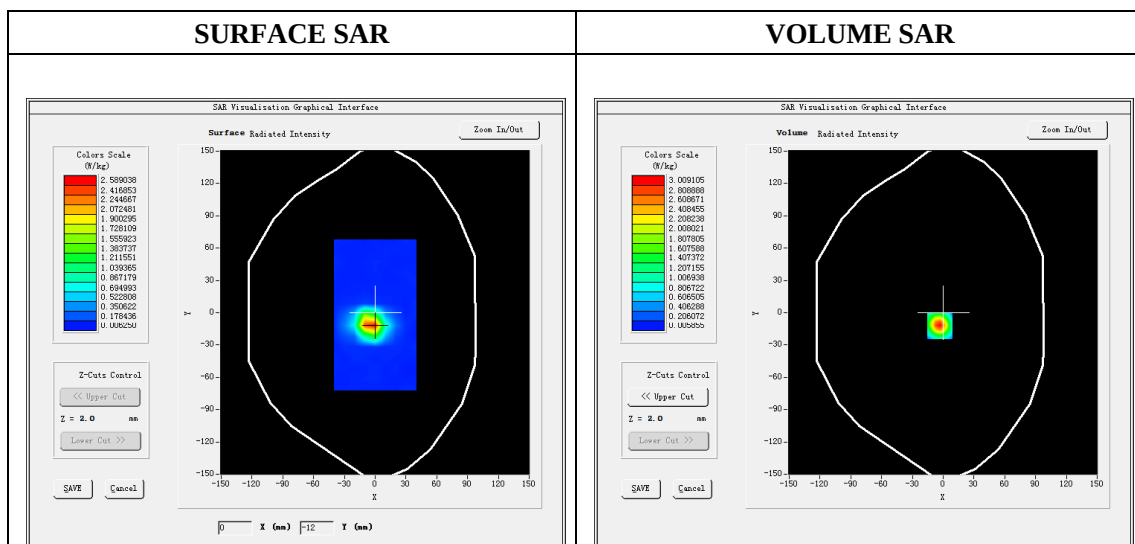
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	7x7x8,dx=4mm dy=4mm dz=2mm
Device Position	Dipole
Band	5800MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	5800
Relative permittivity (real part)	48.23
Relative permittivity	18.65
Conductivity (S/m)	6.01
Power drift (%)	-1.77
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
Crest factor:	1:1
ConvF:	2.34

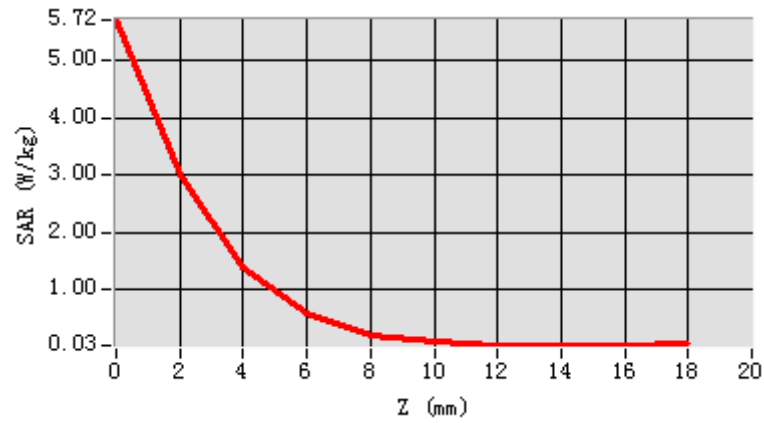


Maximum location: X=-3.00, Y=-12.00

SAR Peak: 6.01 W/kg

SAR 10g (W/Kg)	0.416632
SAR 1g (W/Kg)	1.552434

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	5.7150	3.0091	1.3982	0.5719	0.2148	0.0795	0.0358	0.0267	0.0331



3D screen shot	Hot spot position
