



Appendix A: SAR System performance Check Plots

Measurement	Liquid	Frequency	Test Date
System Check	Head	750	2023/11/28
System Check	Head	835	2023/11/11
System Check	Head	1800	2023/11/13
System Check	Head	1900	2023/11/21
System Check	Head	2450	2023/11/22
System Check	Head	2600	2023/11/25
System Check	Head	5200	2023/11/15
System Check	Head	5400	2023/11/15
System Check	Head	5600	2023/11/17
System Check	Head	5800	2023/11/17

System Performance Check (750MHz)

Type: Validation measurement

Date of measurement: 11/28/2023

A. Experimental conditions.

E-Field Probe	SATIMO 0523-EPGO-403
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	750MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

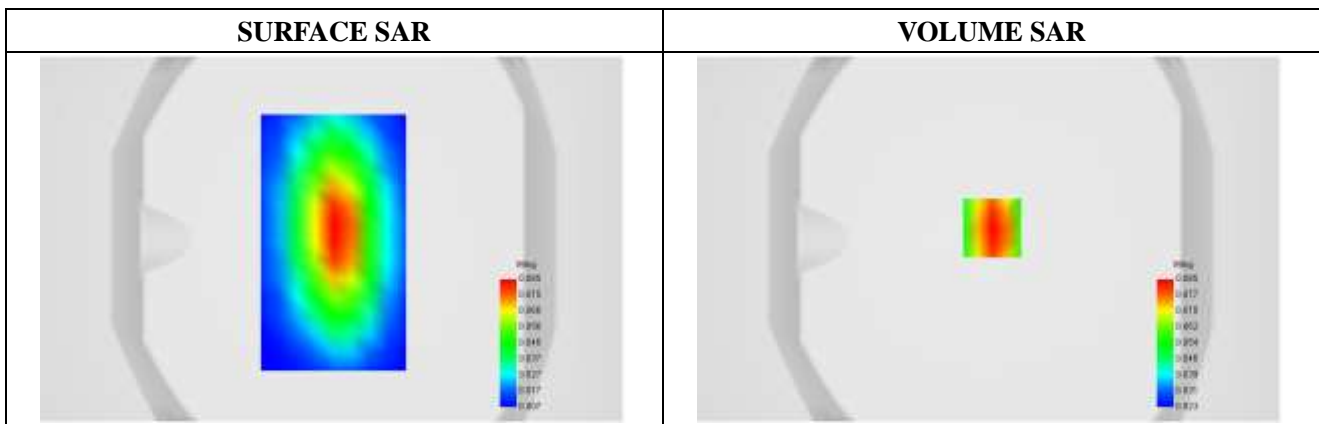
B. SAR Measurement Results

Frequency (MHz)	750
Relative permittivity (real part)	42.63
Conductivity (S/m)	0.88
Variation (%)	0.11

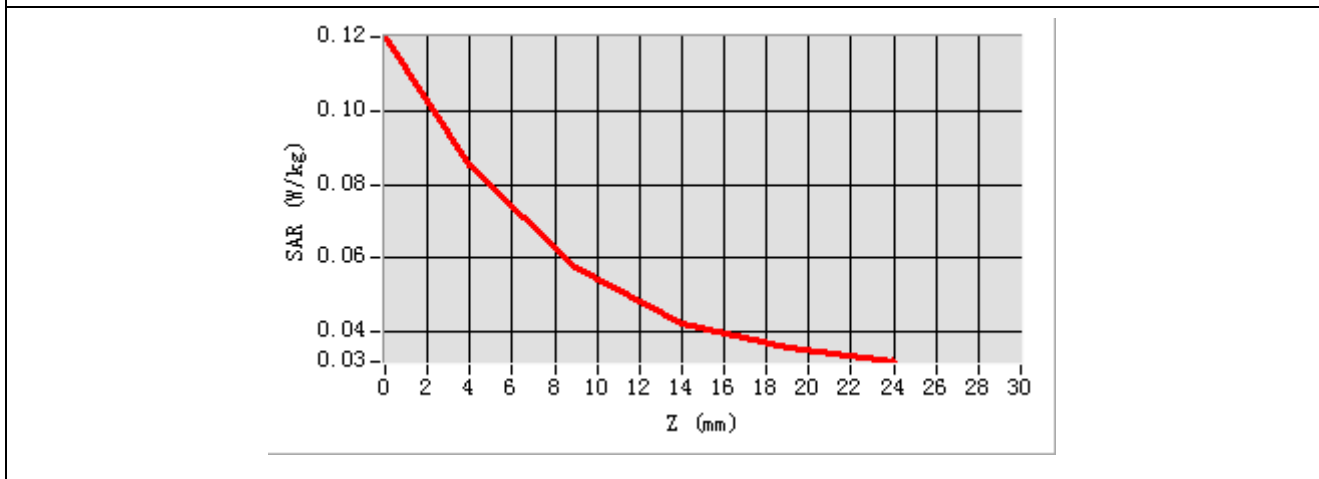
Maximum location: X=1.00, Y=-5.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.058694
SAR 1g (W/Kg)	0.086043



Z Axis Scan



System Performance Check (835MHz)

Type: Validation measurement

Date of measurement: 11/11/2023

A. Experimental conditions.

E-Field Probe	SATIMO 0523-EPGO-403
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	835MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

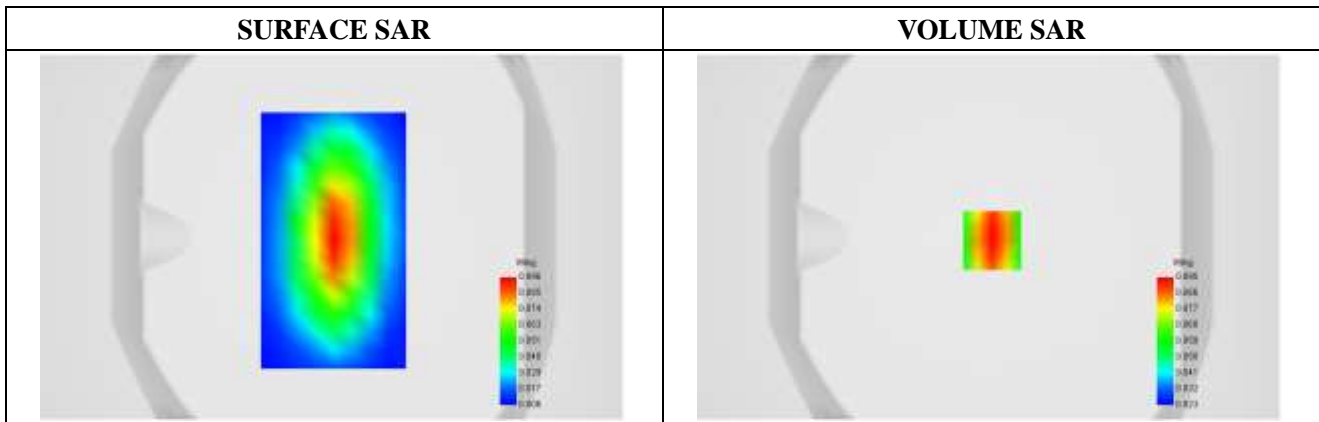
B. SAR Measurement Results

Frequency (MHz)	835
Relative permittivity (real part)	41.67
Conductivity (S/m)	0.91
Variation (%)	-0.41

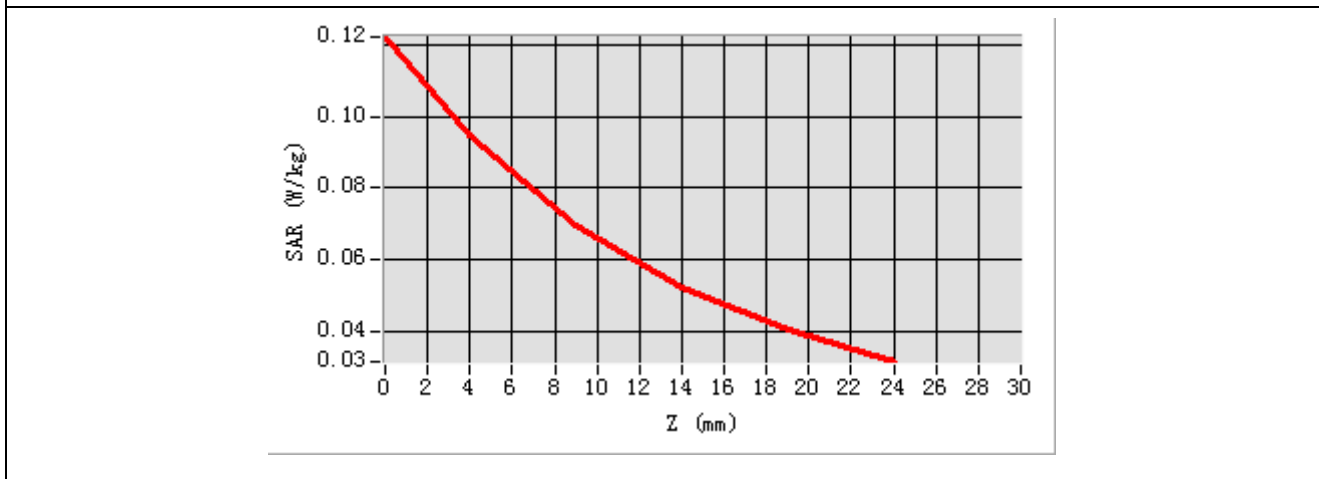
Maximum location: X=1.00, Y=-2.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.062764
SAR 1g (W/Kg)	0.094061



Z Axis Scan



System Performance Check (1800MHz)

Type: Validation measurement

Date of measurement: 11/13/2023

A. Experimental conditions.

E-Field Probe	SATIMO 0523-EPGO-403
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	1800MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

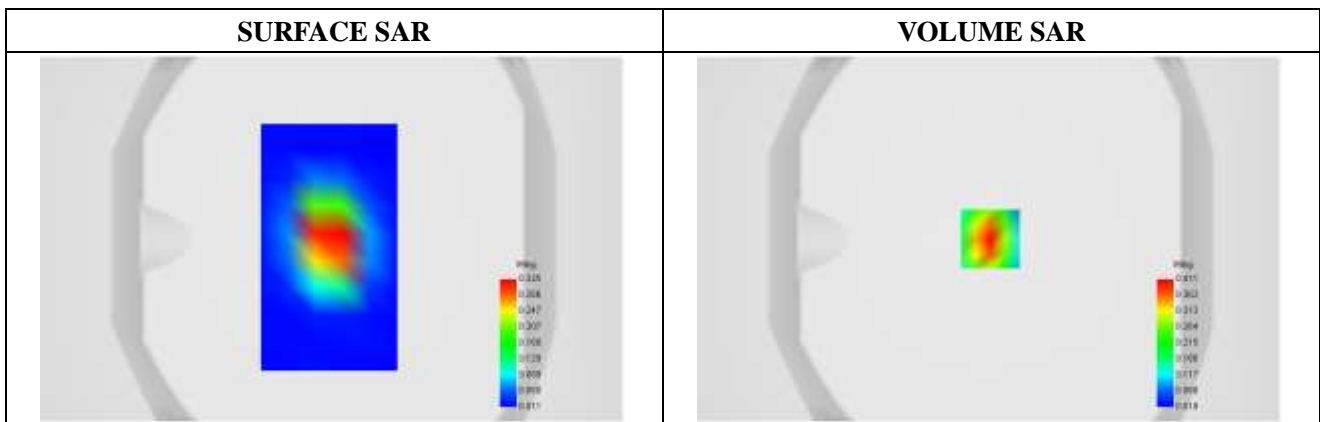
B. SAR Measurement Results

Frequency (MHz)	1800
Relative permittivity (real part)	40.59
Conductivity (S/m)	1.39
Variation (%)	0.62

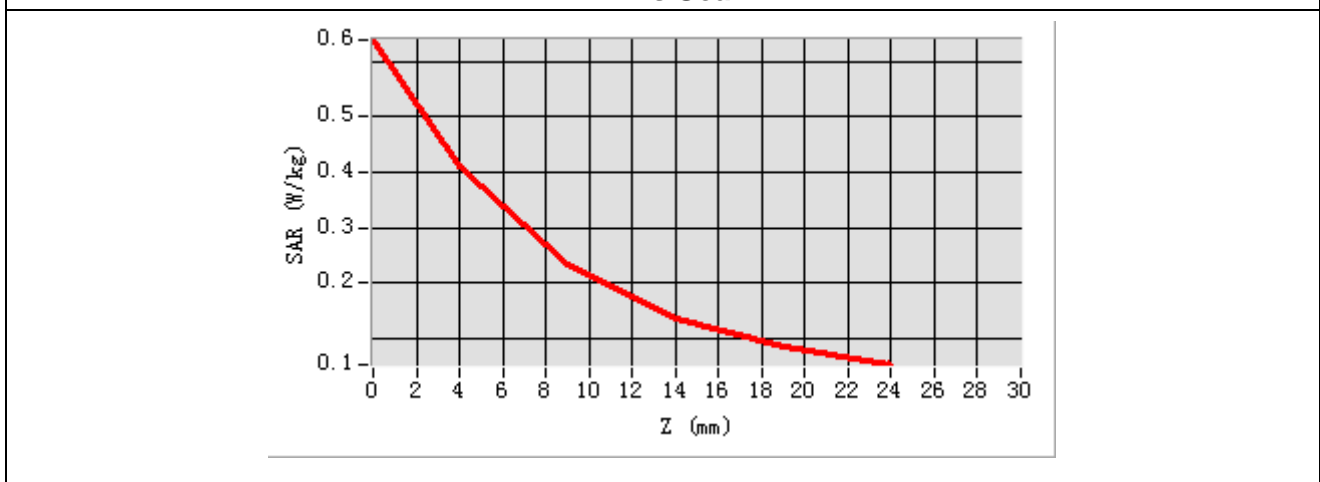
Maximum location: X=0.00, Y=0.00

SAR Peak: 0.61 W/kg

SAR 10g (W/Kg)	0.204072
SAR 1g (W/Kg)	0.383523



Z Axis Scan



System Performance Check (1900MHz)

Type: Validation measurement

Date of measurement: 11/21/2023

A. Experimental conditions.

E-Field Probe	SATIMO 0523-EPGO-403
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	1900MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

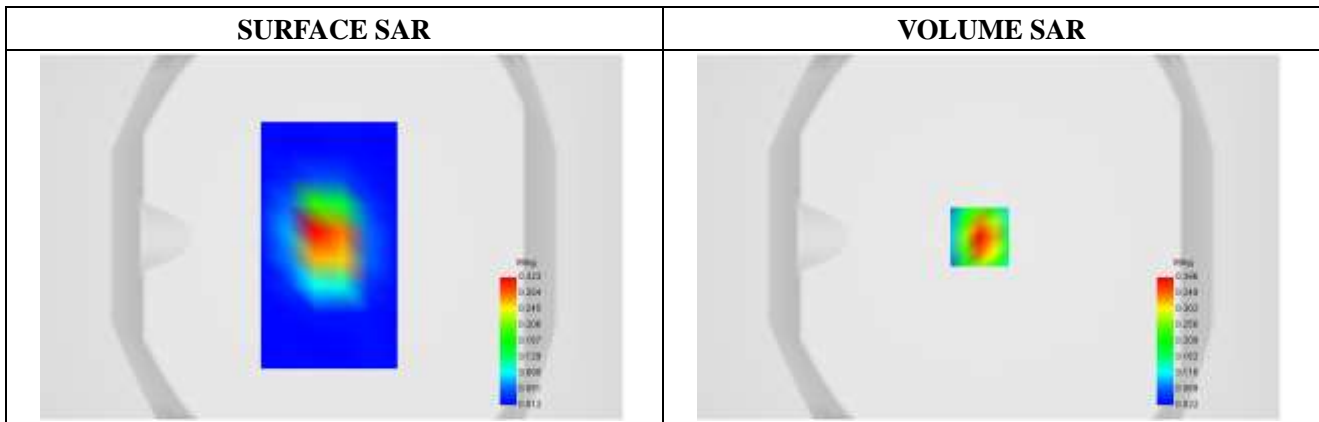
B. SAR Measurement Results

Frequency (MHz)	1900
Relative permittivity (real part)	39.69
Conductivity (S/m)	1.41
Variation (%)	0.02

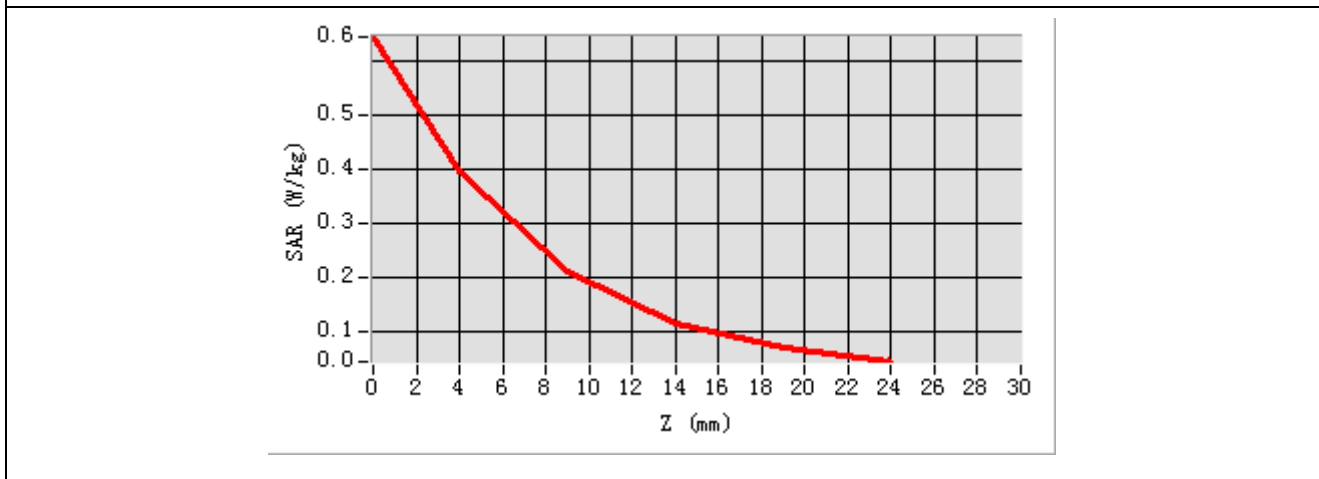
Maximum location: X=-5.00, Y=0.00

SAR Peak: 0.64 W/kg

SAR 10g (W/Kg)	0.198341
SAR 1g (W/Kg)	0.382517



Z Axis Scan



System Performance Check (2450MHz)

Type: Validation measurement

Date of measurement: 11/22/2023

A. Experimental conditions.

E-Field Probe	SATIMO 0523-EPGO-403
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	2450MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

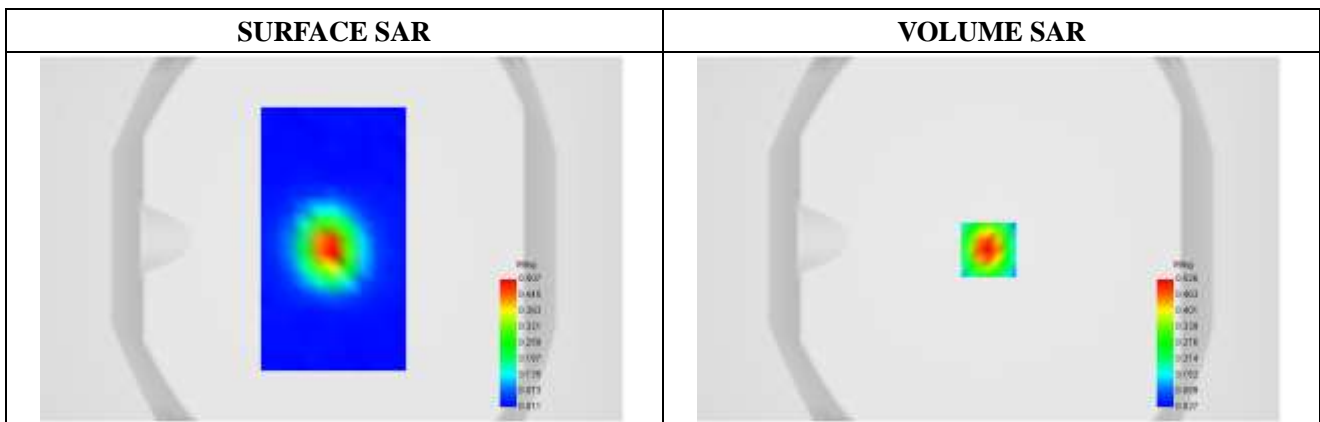
B. SAR Measurement Results

Frequency (MHz)	2450
Relative permittivity (real part)	39.86
Conductivity (S/m)	1.81
Variation (%)	0.23

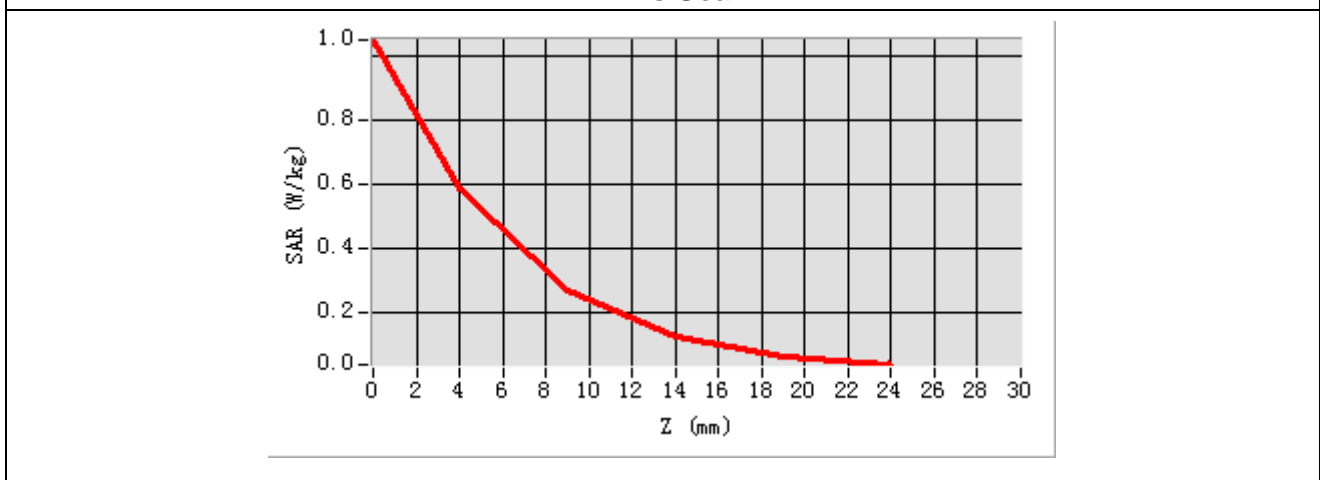
Maximum location: X=-1.00, Y=-6.00

SAR Peak: 1.04 W/kg

SAR 10g (W/Kg)	0.236418
SAR 1g (W/Kg)	0.523641



Z Axis Scan



System Performance Check (2600MHz)

Type: Validation measurement

Date of measurement: 11/25/2023

A. Experimental conditions.

E-Field Probe	SATIMO 0523-EPGO-403
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	2600MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

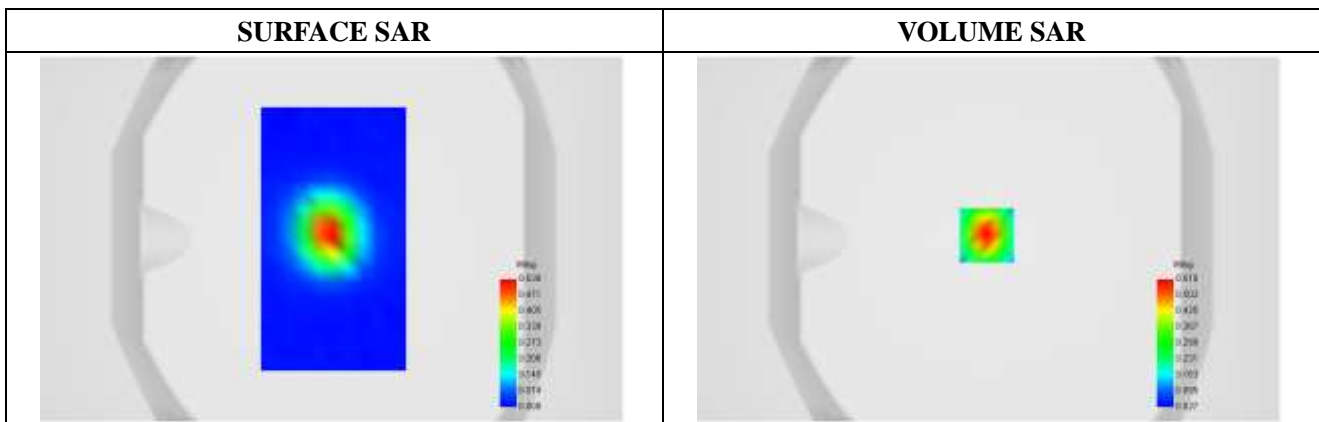
B. SAR Measurement Results

Frequency (MHz)	2600
Relative permittivity (real part)	38.53
Conductivity (S/m)	1.97
Variation (%)	0.56

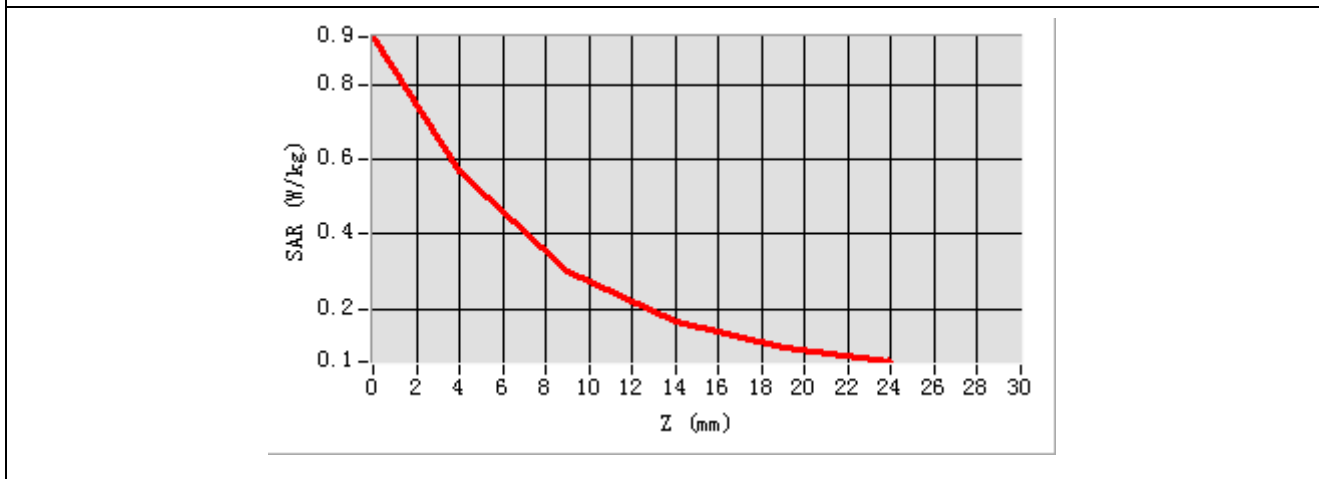
Maximum location: X=-2.00, Y=3.00

SAR Peak: 0.92 W/kg

SAR 10g (W/Kg)	0.251698
SAR 1g (W/Kg)	0.538162



Z Axis Scan



System Performance Check (5200MHz)

Type: Validation measurement

Date of measurement: 11/15/2023

A. Experimental conditions.

E-Field Probe	SATIMO 0523-EPGO-403
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	5200MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

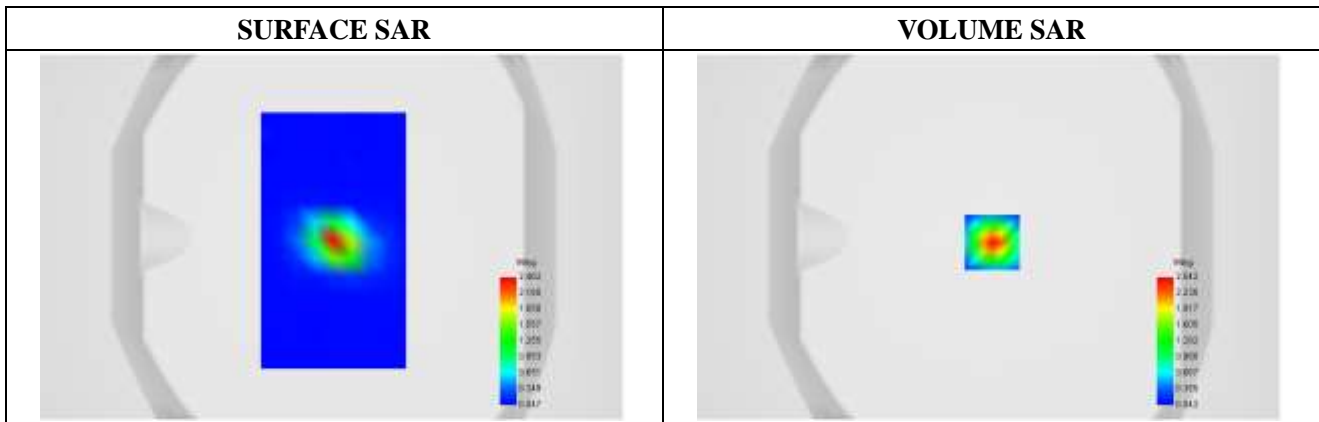
B. SAR Measurement Results

Frequency (MHz)	5200
Relative permittivity (real part)	36.24
Conductivity (S/m)	4.63
Variation (%)	-0.30

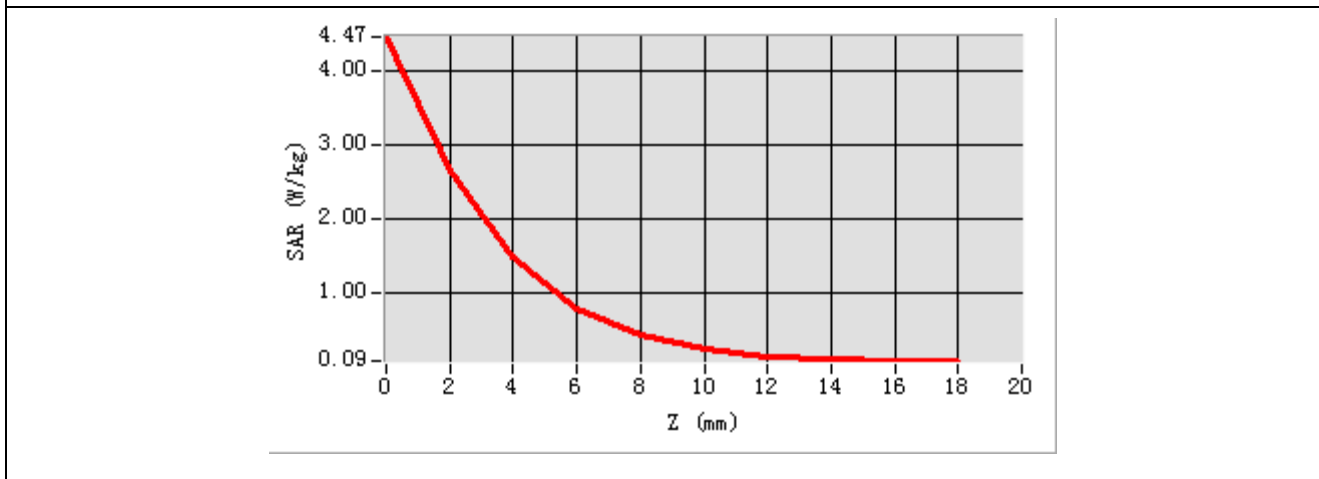
Maximum location: X=1.00, Y=-3.00

SAR Peak: 4.47 W/kg

SAR 10g (W/Kg)	0.541674
SAR 1g (W/Kg)	1.490509



Z Axis Scan



System Performance Check (5400MHz)

Type: Validation measurement

Date of measurement: 11/15/2023

A. Experimental conditions.

E-Field Probe	SATIMO 0523-EPGO-403
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	5400MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

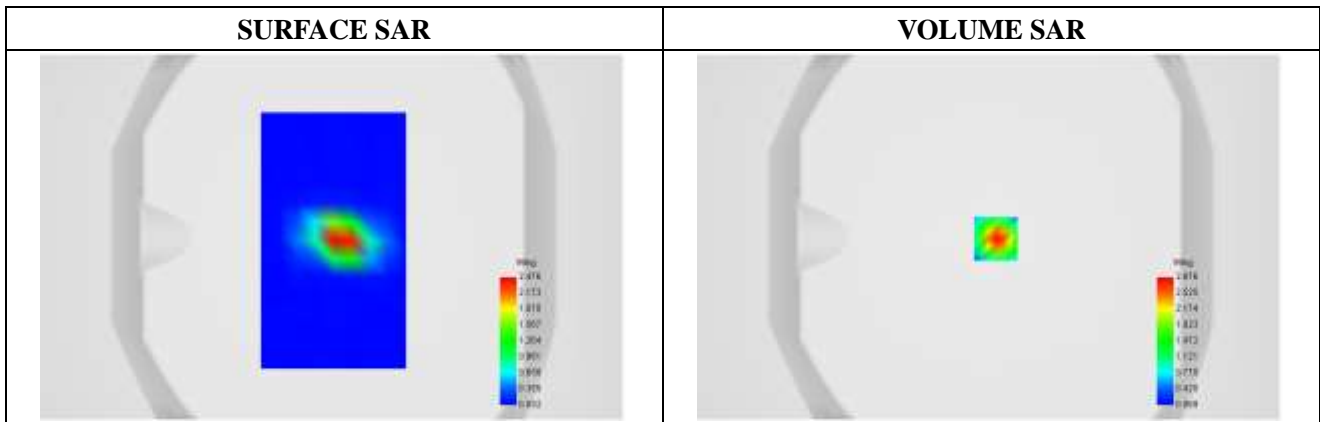
B. SAR Measurement Results

Frequency (MHz)	5400
Relative permittivity (real part)	36.01
Conductivity (S/m)	4.88
Variation (%)	0.19

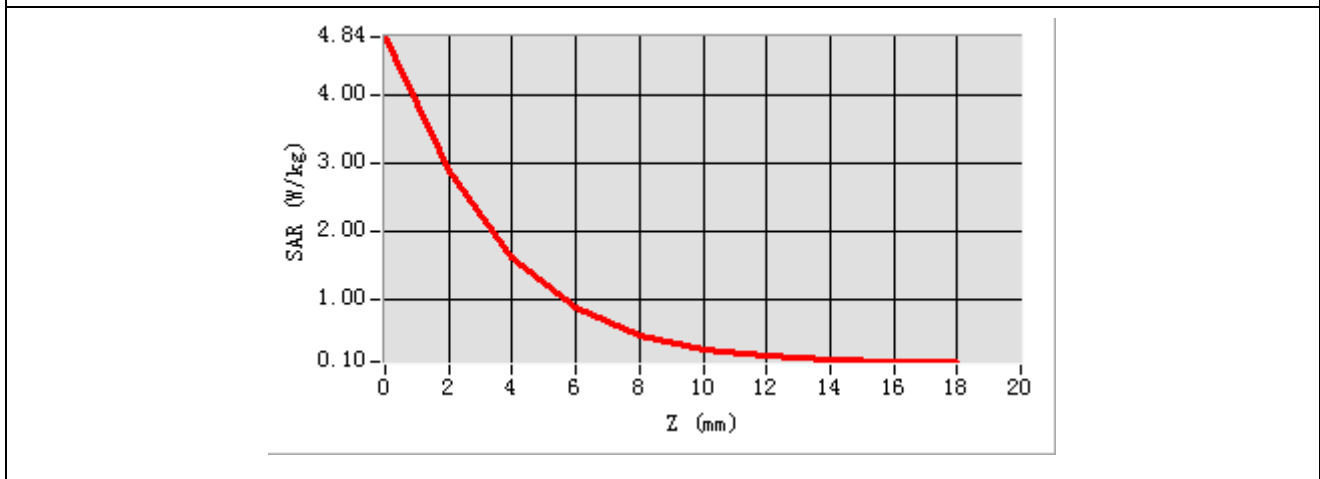
Maximum location: X=4.00, Y=-1.00

SAR Peak: 4.84 W/kg

SAR 10g (W/Kg)	0.539851
SAR 1g (W/Kg)	1.579842



Z Axis Scan



System Performance Check (5600MHz)

Type: Validation measurement

Date of measurement: 11/17/2023

A. Experimental conditions.

E-Field Probe	SATIMO 0523-EPGO-403
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	5600MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

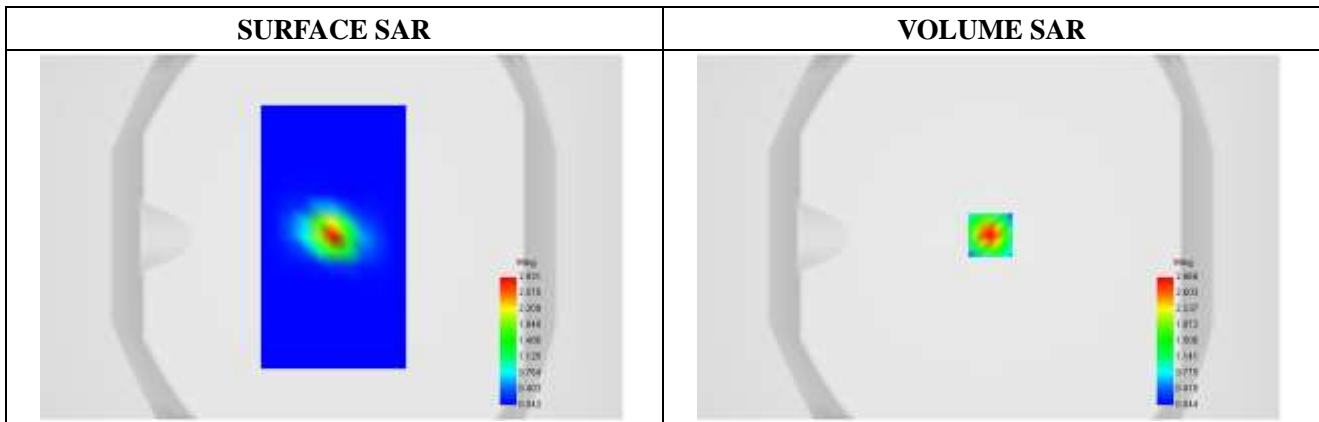
B. SAR Measurement Results

Frequency (MHz)	5600
Relative permittivity (real part)	35.68
Conductivity (S/m)	5.01
Variation (%)	0.37

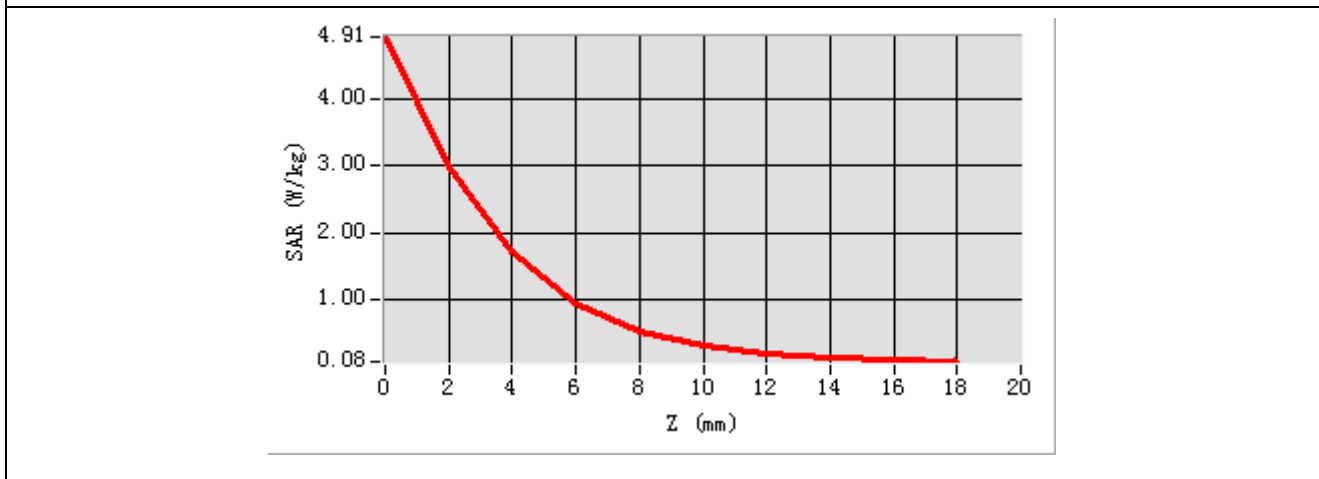
Maximum location: X=0.00, Y=1.00

SAR Peak: 4.91 W/kg

SAR 10g (W/Kg)	0.582065
SAR 1g (W/Kg)	1.601479



Z Axis Scan



System Performance Check (5800MHz)

Type: Validation measurement

Date of measurement: 11/17/2023

A. Experimental conditions.

E-Field Probe	SATIMO 0523-EPGO-403
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	5800MHz
Channels	Middle
Signal	CW(Crest factor: 1.0)

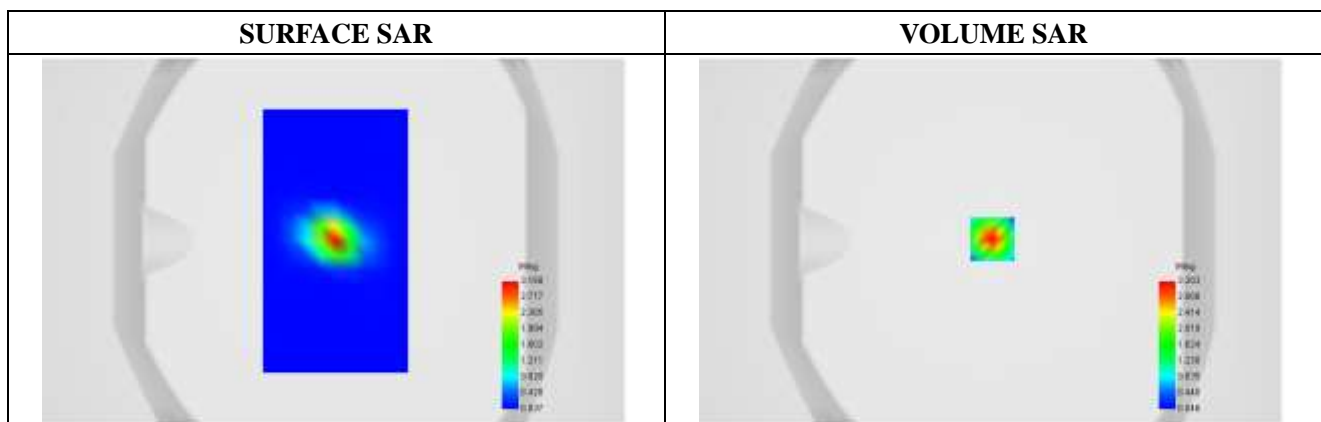
B. SAR Measurement Results

Frequency (MHz)	5800
Relative permittivity (real part)	35.27
Conductivity (S/m)	5.25
Variation (%)	0.26

Maximum location: X=0.00, Y=1.00

SAR Peak: 5.42 W/kg

SAR 10g (W/Kg)	0.604952
SAR 1g (W/Kg)	1.730049



Z Axis Scan

