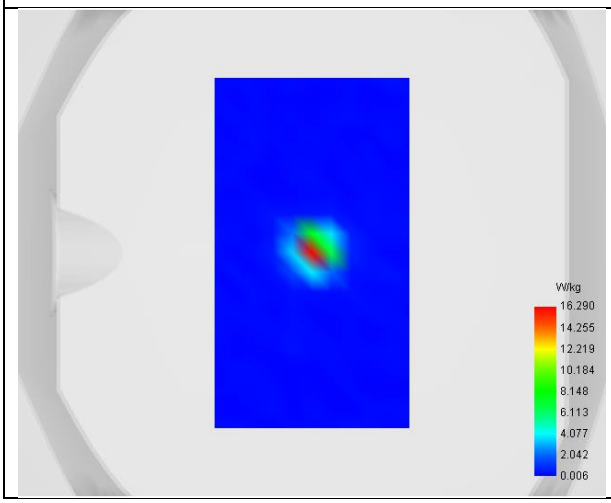
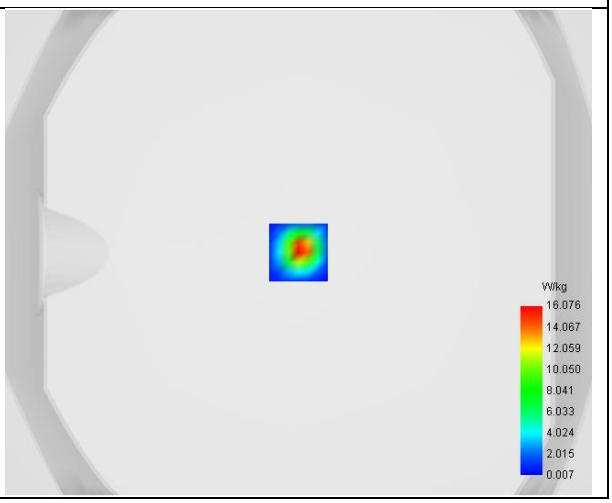
System Performance Check Data (5200MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement:2025-03-20

Experimental conditions.

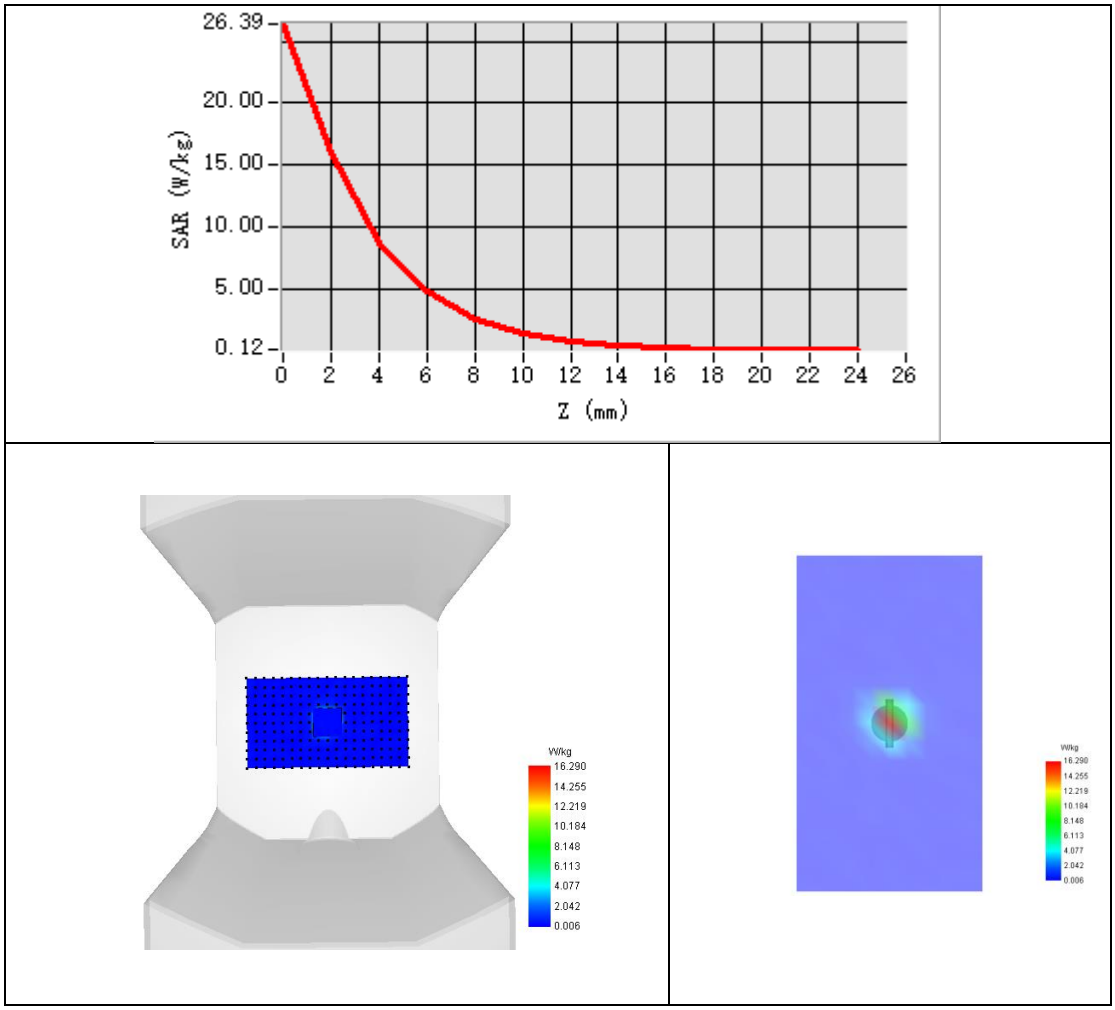
Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW
Frequency (MHz)	5200.000
Relative permittivity	36.43
Conductivity (S/m)	4.63
Probe	SN 04/22 EPGO364
ConvF	1.99
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=0.00, Y=0.00 ; SAR Peak: 28.33 W/kg

SAR 10g (W/Kg)	2.336
SAR 1g (W/Kg)	8.132

Z Axis Scan

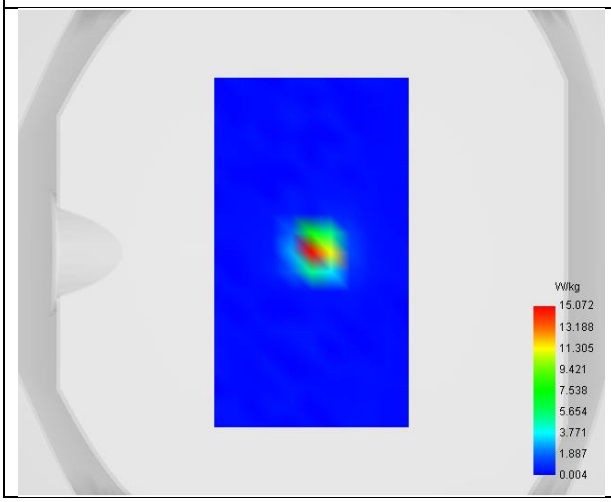
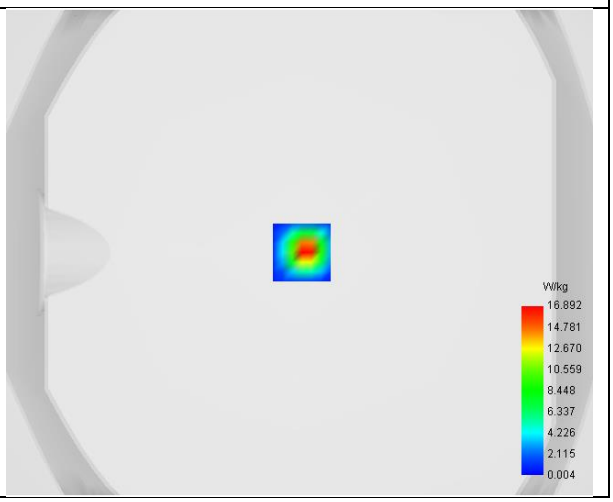

26.39
20.00
15.00
10.00
5.00
0.12
SAR (W/kg)
0 2 4 6 8 10 12 14 16 18 20 22 24 26
Z (mm)
W/kg
16.290
14.255
12.219
10.184
8.148
6.113
4.077
2.042
0.006

System Performance Check Data (5400MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement:2025-03-23

Experimental conditions.

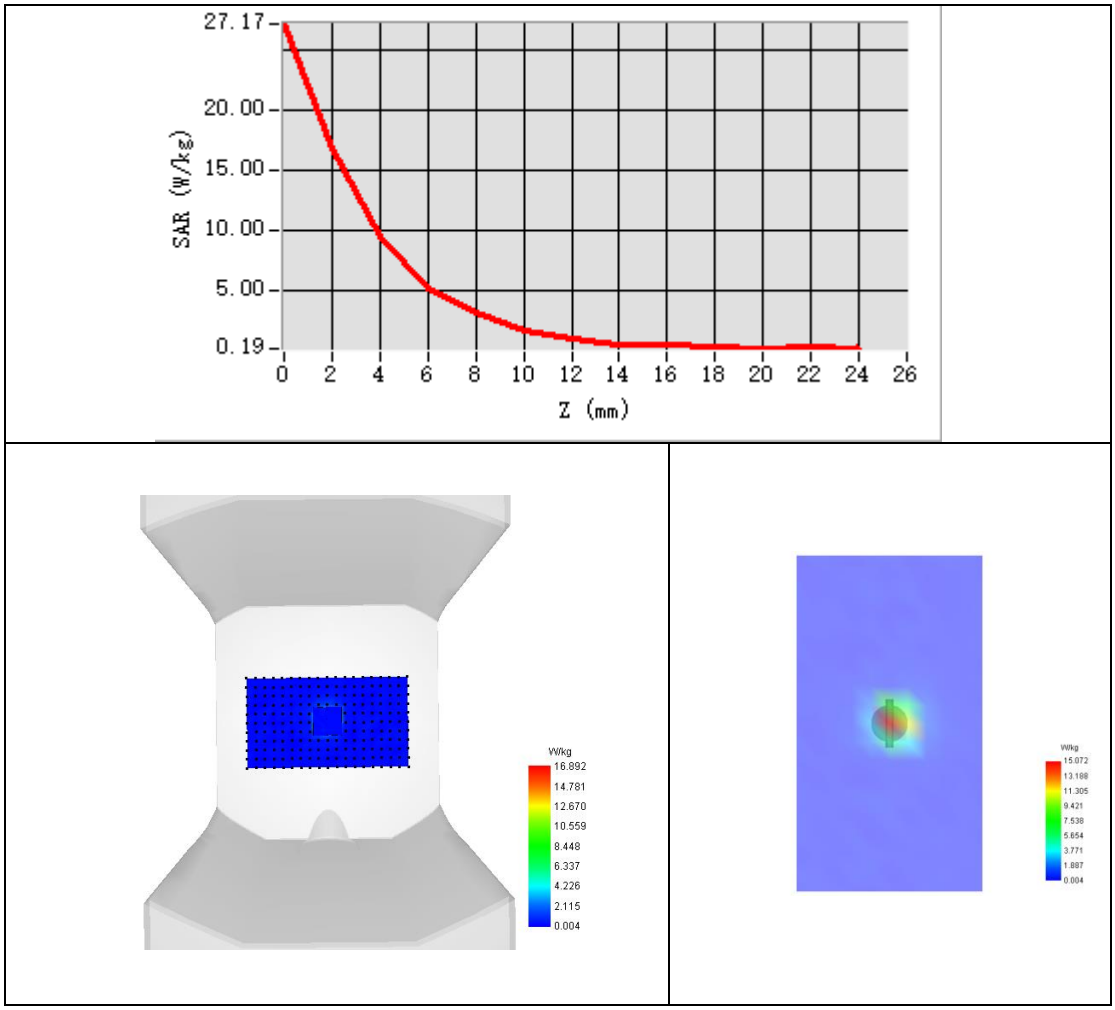
Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW
Frequency (MHz)	5400.000
Relative permittivity	36.25
Conductivity (S/m)	4.85
Probe	SN 04/22 EPGO364
ConvF	1.87
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=1.00, Y=0.00 ; SAR Peak: 29.39 W/kg

SAR 10g (W/Kg)	2.403
SAR 1g (W/Kg)	8.498

Z Axis Scan

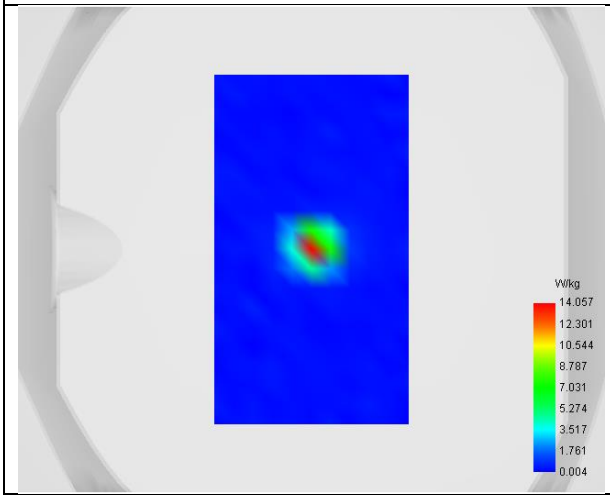
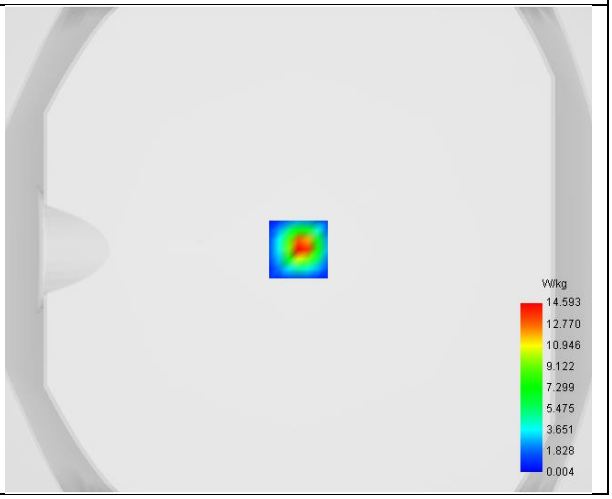

27.17
20.00
15.00
10.00
5.00
0.19
SAR (W/kg)
0 2 4 6 8 10 12 14 16 18 20 22 24 26
Z (mm)
W/kg
16.892
14.781
12.670
10.559
8.448
6.337
4.226
2.115
0.004
W/kg
15.072
13.188
11.305
9.421
7.538
5.654
3.771
1.887
0.004

System Performance Check Data (5600MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement:2025-03-26

Experimental conditions.

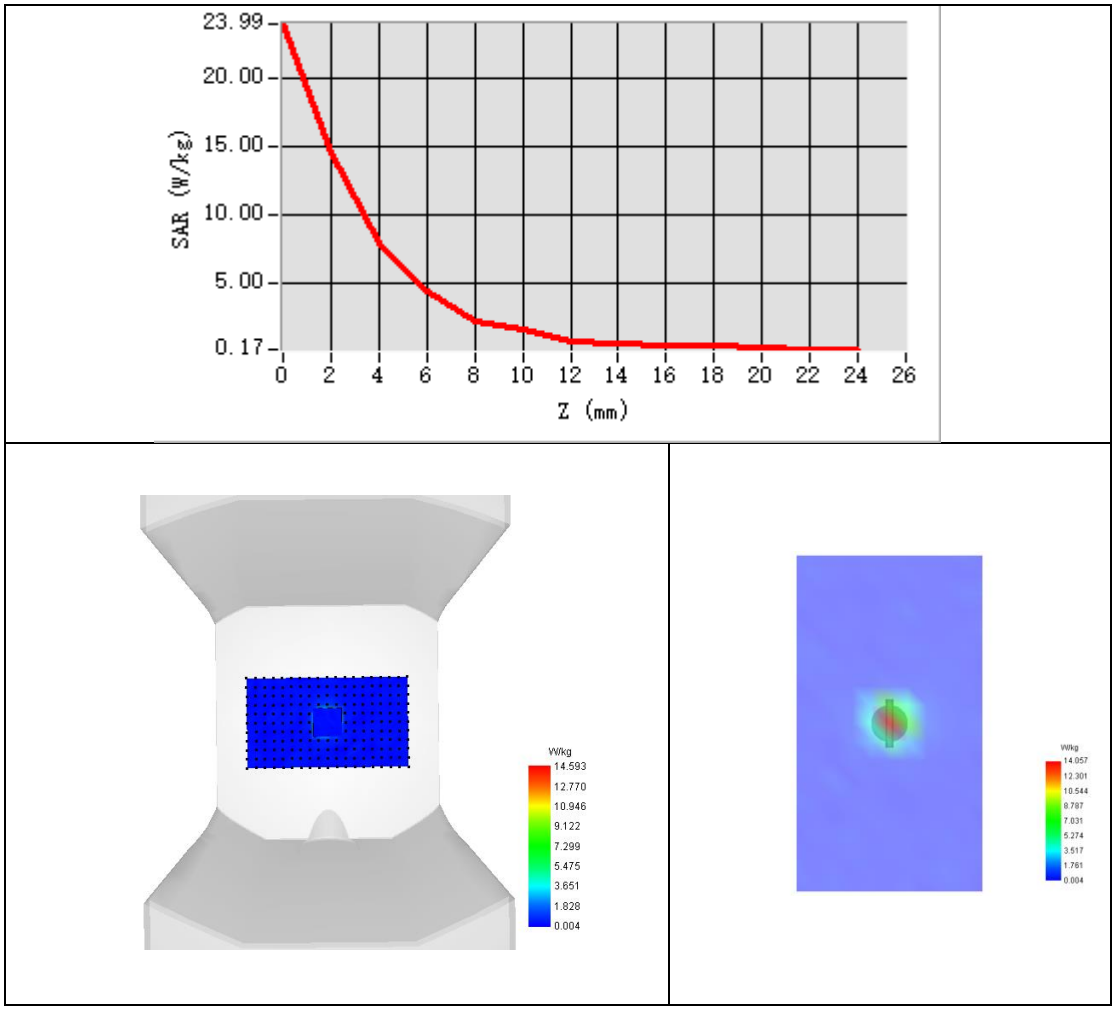
Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels	Middle
Signal	CW
Frequency (MHz)	5600.000
Relative permittivity	35.68
Conductivity (S/m)	5.06
Probe	SN 04/22 EPGO364
ConvF	1.87
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=0.00, Y=0.00 ; SAR Peak: 26.00 W/kg

SAR 10g (W/Kg)	2.324
SAR 1g (W/Kg)	8.111

Z Axis Scan

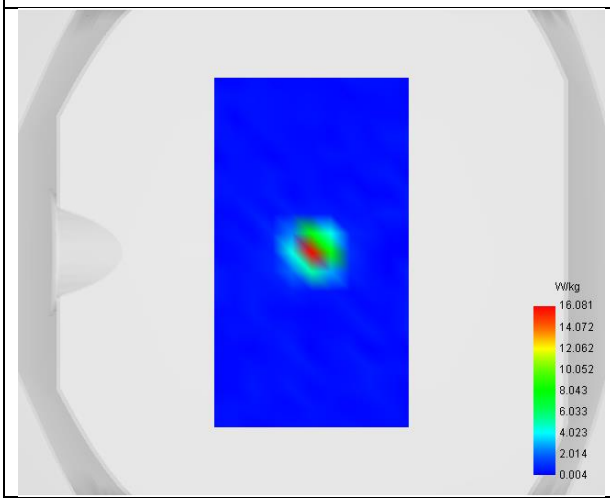
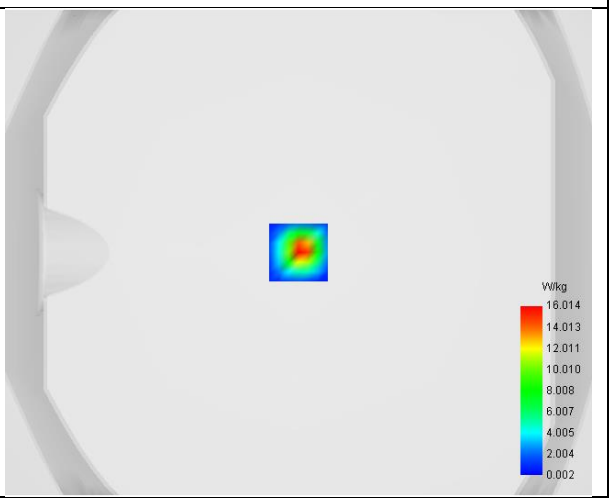

23.99
20.00
15.00
10.00
5.00
0.17
SAR (W/kg)
0 2 4 6 8 10 12 14 16 18 20 22 24 26
Z (mm)
W/kg
14.593
12.770
10.946
9.122
7.299
5.475
3.651
1.828
0.004
W/kg
14.057
12.301
10.544
8.787
7.031
5.274
3.517
1.761
0.004

System Performance Check Data (5800MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement:2025-03-26

Experimental conditions.

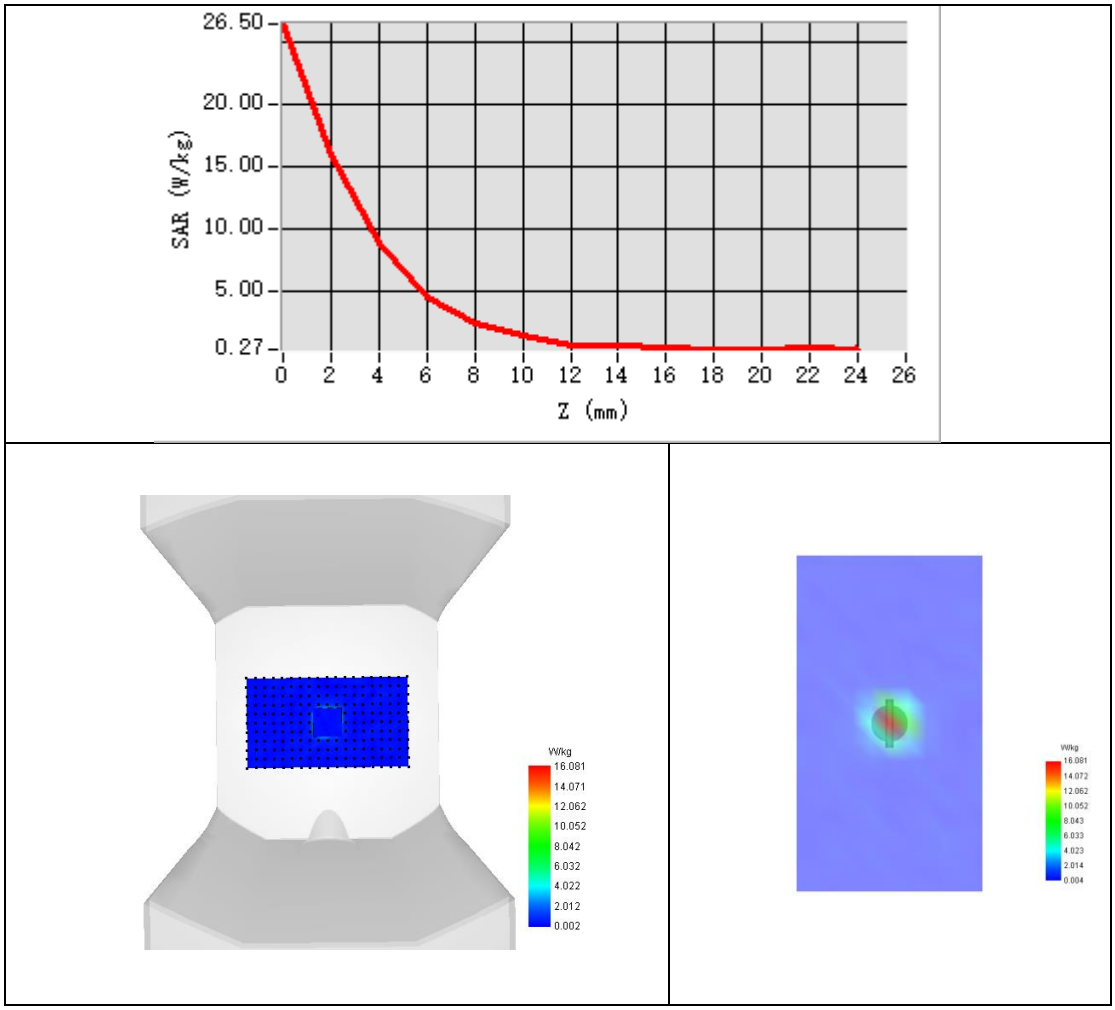
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW
Frequency (MHz)	5800.000
Relative permittivity	36.60
Conductivity (S/m)	5.18
Probe	SN 04/22 EPGO364
ConvF	1.70
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=0.00, Y=0.00 ; SAR Peak: 27.42 W/kg

SAR 10g (W/Kg)	2.372
SAR 1g (W/Kg)	8.185

Z Axis Scan

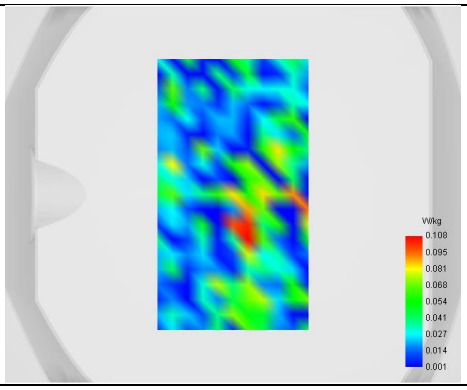
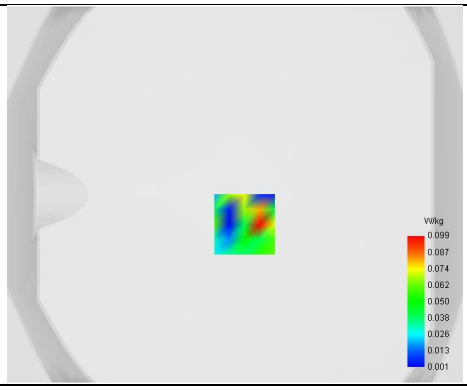
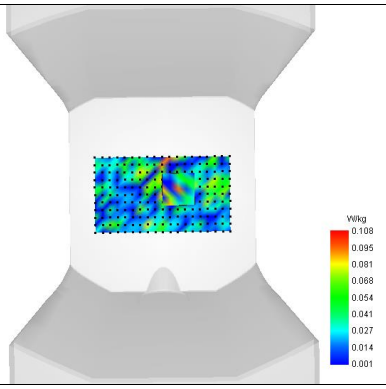
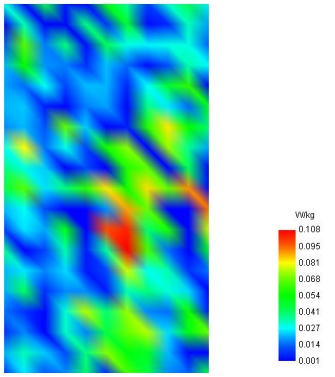

26.50
20.00
15.00
10.00
5.00
0.27
SAR (W/kg)
0 2 4 6 8 10 12 14 16 18 20 22 24 26
Z (mm)
W/kg
16.081
14.071
12.062
10.052
8.042
6.032
4.022
2.012
0.002
W/kg
16.081
14.072
12.062
10.052
8.043
6.033
4.023
2.014
0.004

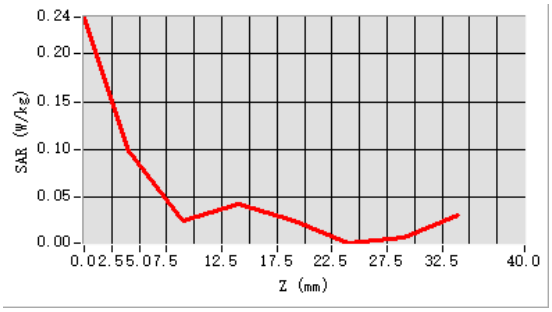
Appendix B. SAR Test Plots

Plot 1:

Test Date	2025-03-21
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	ISM ANT 1
Signal	IEEE 802.11 b
Frequency	2437
SAR 10g (W/Kg)	0.046
SAR 1g (W/Kg)	0.105
ConvF	2.33
Relative permittivity	40.63
Conductivity (S/m)	1.83

Maximum location: X=5.00, Y=-16.00 ; SAR Peak: 0.28 W/kg

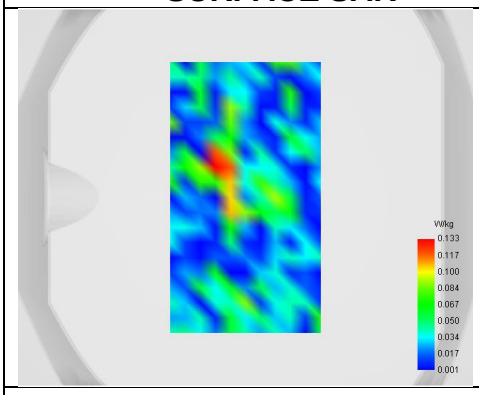
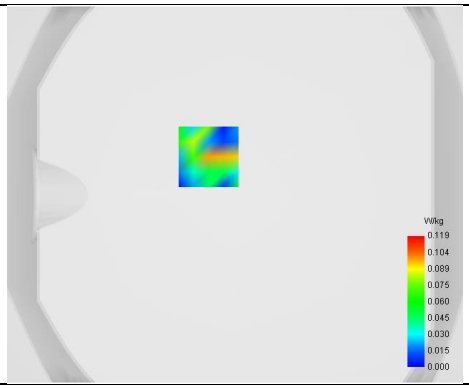
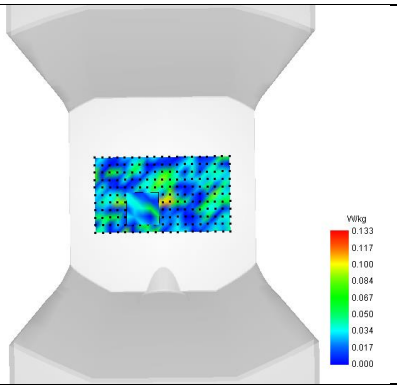
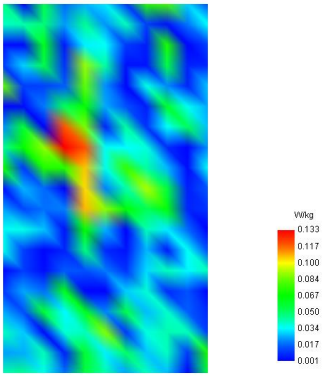
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

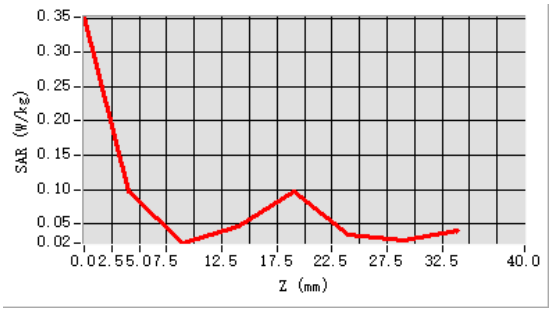


Plot 2:

Test Date	2025-03-21
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	ISM ANT 2
Signal	IEEE 802.11 b
Frequency	2437
SAR 10g (W/Kg)	0.049
SAR 1g (W/Kg)	0.121
ConvF	2.33
Relative permittivity	40.63
Conductivity (S/m)	1.83

Maximum location: X=-14.00, Y=20.00 ; SAR Peak: 0.36 W/kg

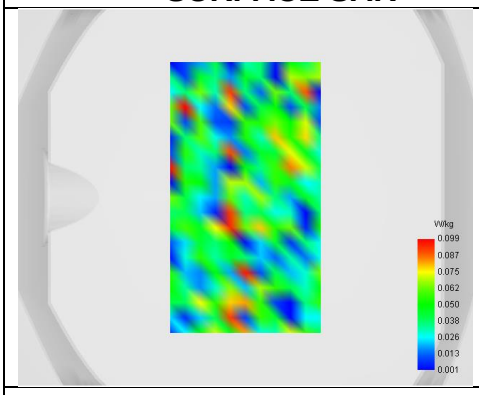
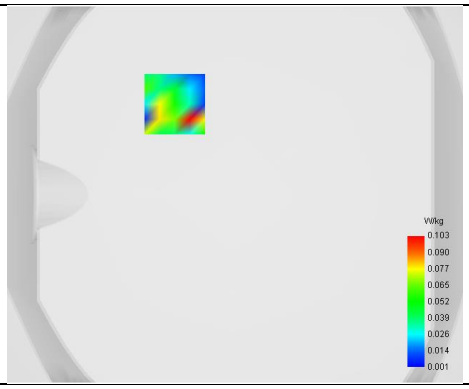
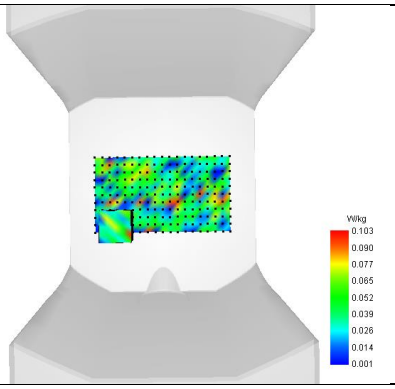
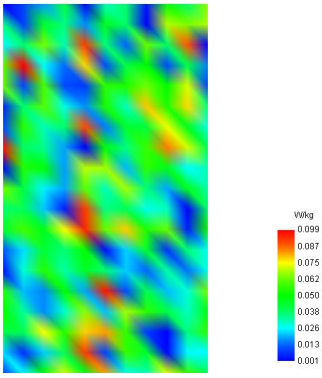
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

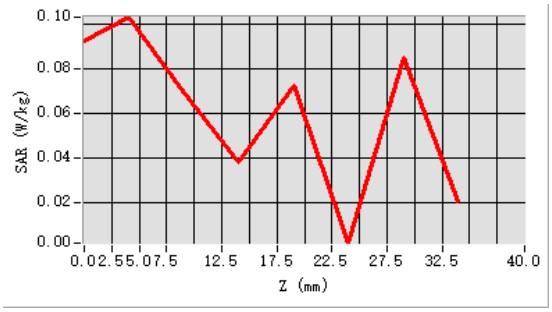


Plot 3:

Test Date	2025-03-21
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	ISM MIMO ANT 1
Signal	IEEE 802.11ax 20
Frequency	2437
SAR 10g (W/Kg)	0.049
SAR 1g (W/Kg)	0.115
ConvF	2.33
Relative permittivity	40.63
Conductivity (S/m)	1.83

Maximum location: X=-32.00, Y=48.00 ; SAR Peak: 0.29 W/kg

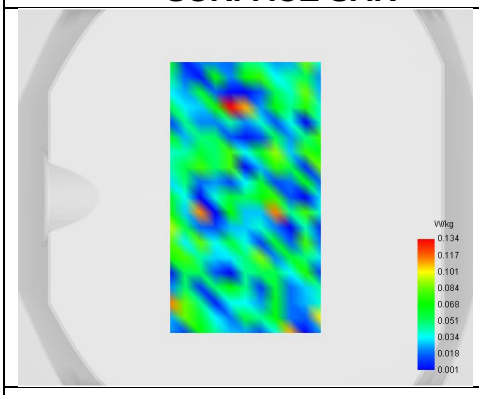
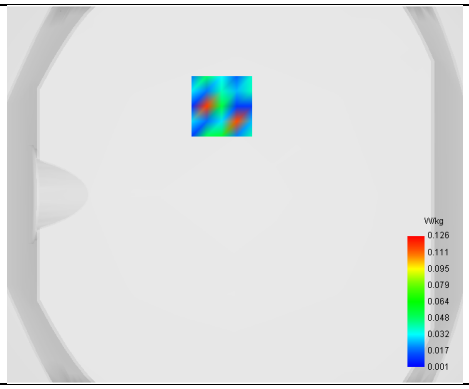
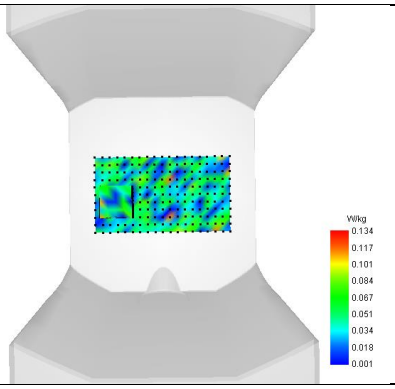
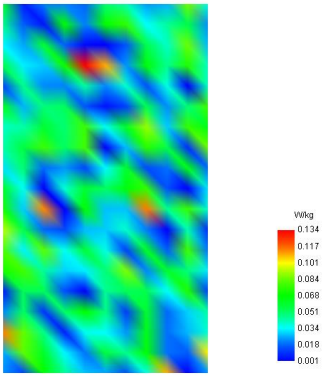
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

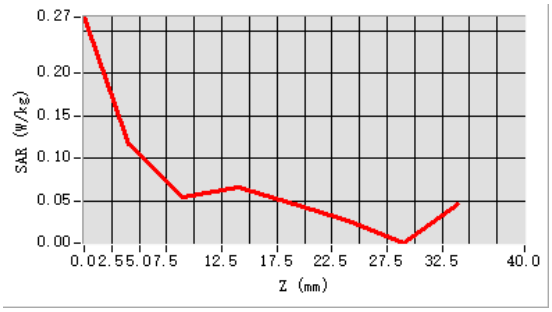


Plot 4:

Test Date	2025-03-21
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	ISM MIMO ANT 2
Signal	IEEE 802.11ax 20
Frequency	2437
SAR 10g (W/Kg)	0.041
SAR 1g (W/Kg)	0.098
ConvF	2.33
Relative permittivity	40.63
Conductivity (S/m)	1.83

Maximum location: X=-7.00, Y=47.00 ; SAR Peak: 0.36 W/kg

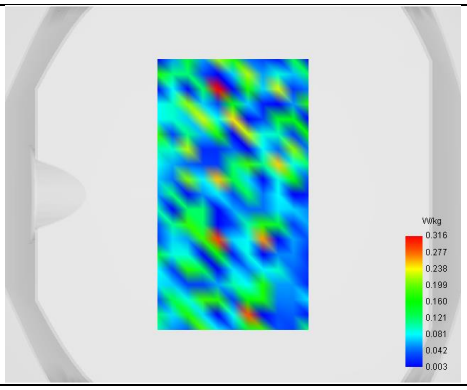
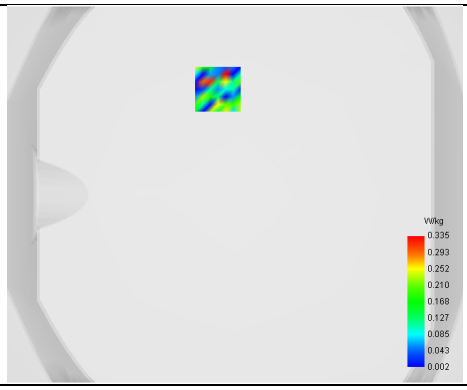
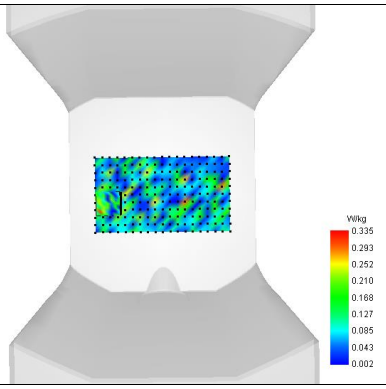
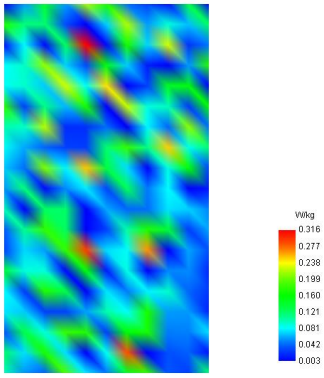
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

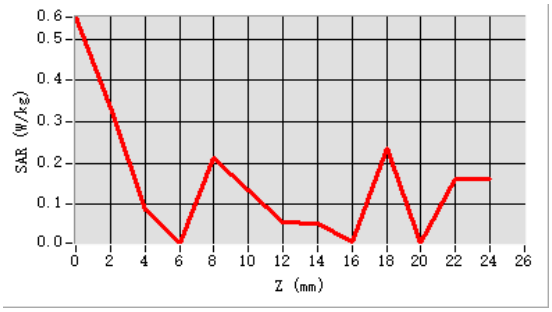


Plot 5:

Test Date	2025-03-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	U-NII-1 ANT 1
Signal	IEEE 802.11ac 20
Frequency	5240
SAR 10g (W/Kg)	0.067
SAR 1g (W/Kg)	0.142
ConvF	1.99
Relative permittivity	36.43
Conductivity (S/m)	4.63

Maximum location: X=-9.00, Y=56.00 ; SAR Peak: 1.56 W/kg

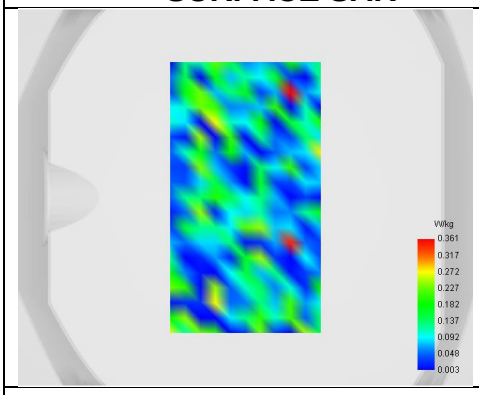
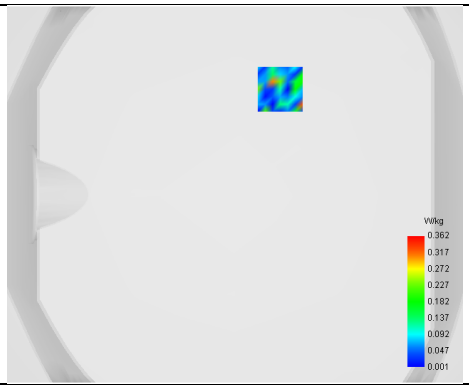
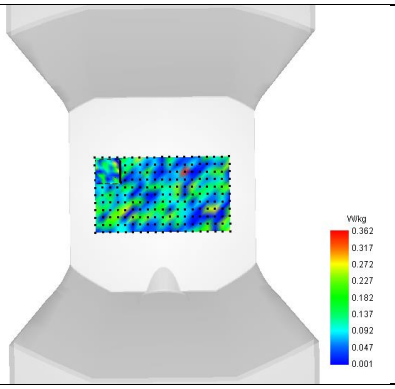
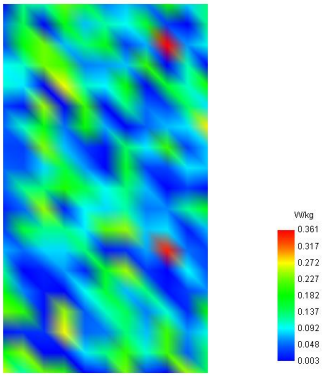
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

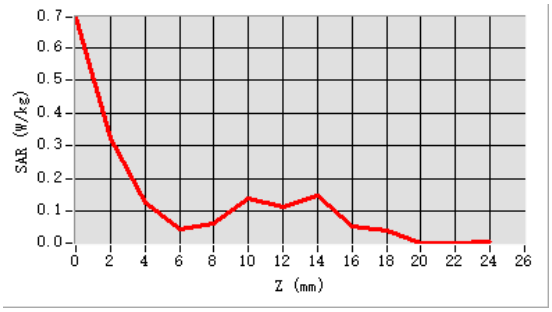


Plot 6:

Test Date	2025-03-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	U-NII-1 ANT 2
Signal	IEEE 802.11a
Frequency	5180
SAR 10g (W/Kg)	0.067
SAR 1g (W/Kg)	0.142
ConvF	1.99
Relative permittivity	36.43
Conductivity (S/m)	4.63

Maximum location: X=24.00, Y=56.00 ; SAR Peak: 1.03 W/kg

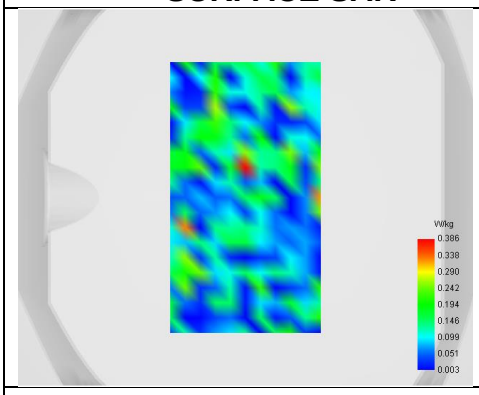
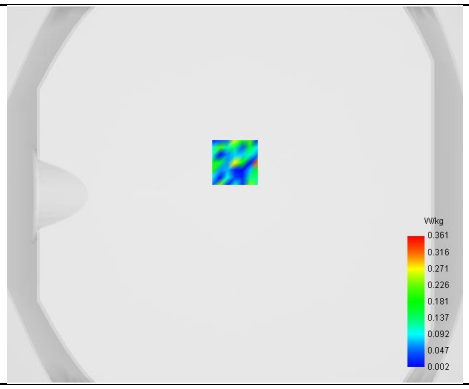
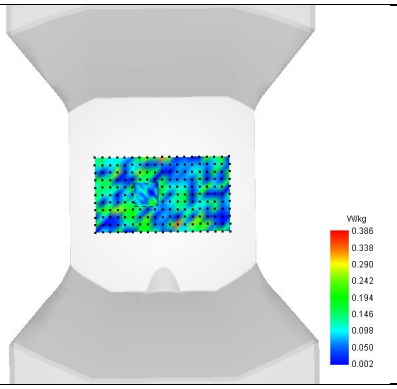
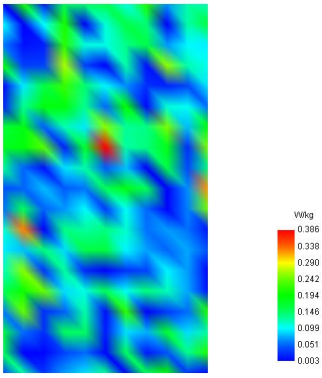
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

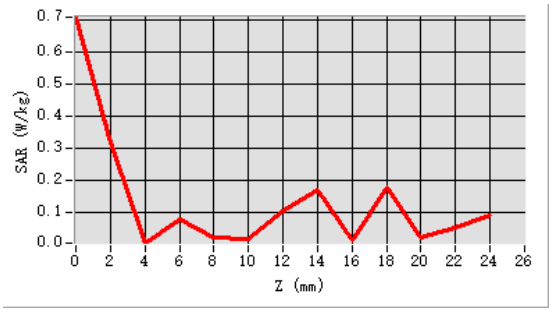


Plot 7:

Test Date	2025-03-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	U-NII-1MIMO ANT 1
Signal	IEEE 802.11ac 20
Frequency	5240
SAR 10g (W/Kg)	0.075
SAR 1g (W/Kg)	0.115
ConvF	1.99
Relative permittivity	36.43
Conductivity (S/m)	4.63

Maximum location: X=0.00, Y=17.00 ; SAR Peak: 1.29 W/kg

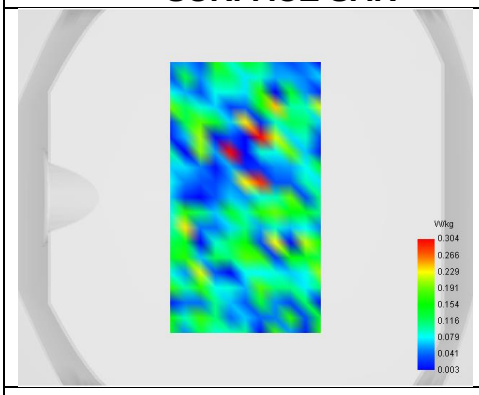
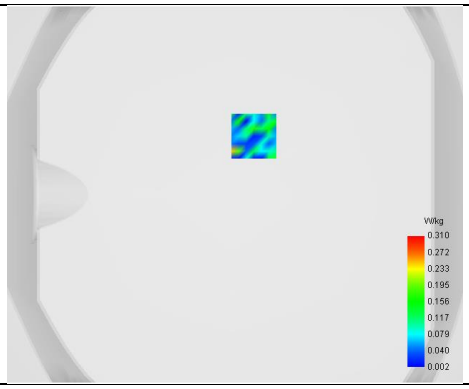
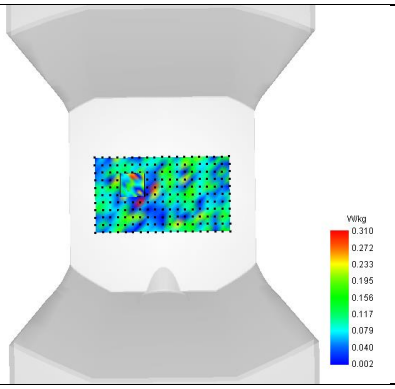
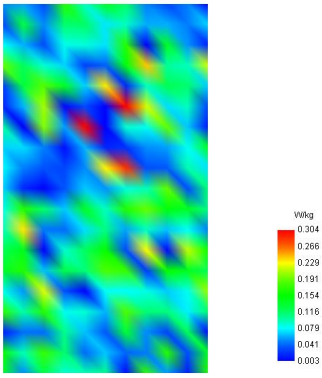
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

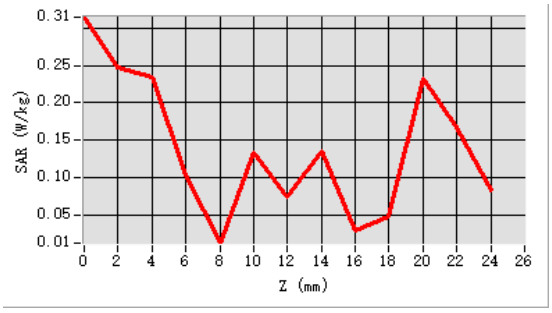


Plot 8:

Test Date	2025-03-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	U-NII-1MIMO ANT 2
Signal	IEEE 802.11ac 20
Frequency	5240
SAR 10g (W/Kg)	0.063
SAR 1g (W/Kg)	0.089
ConvF	1.99
Relative permittivity	36.43
Conductivity (S/m)	4.63

Maximum location: X=10.00, Y=31.00 ; SAR Peak: 0.62 W/kg

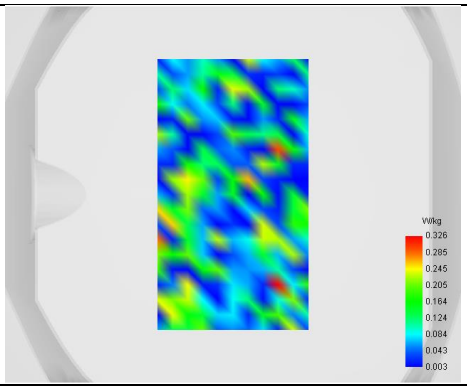
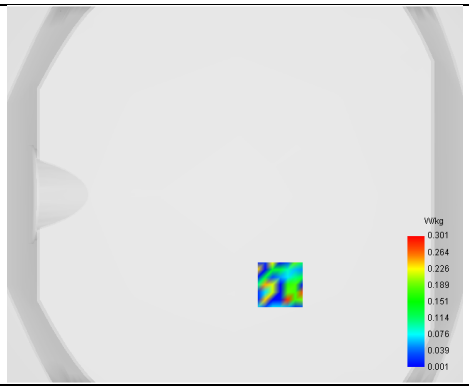
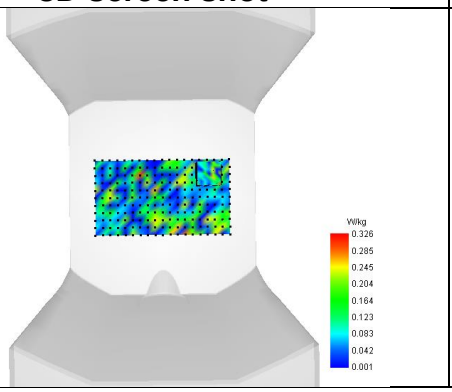
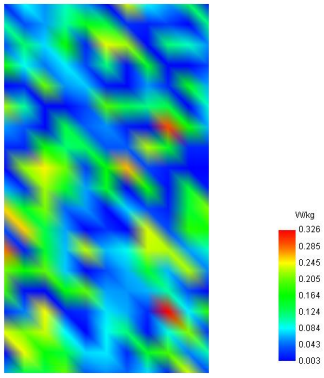
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

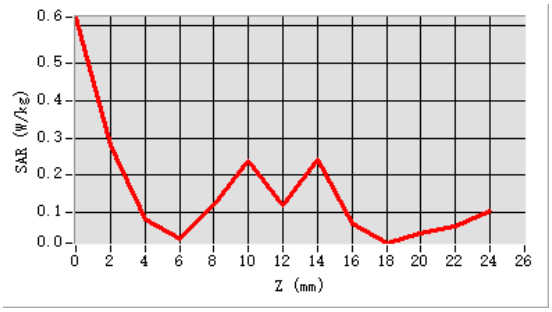


Plot 9:

Test Date	2025-03-23
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	U-NII-2a ANT 1
Signal	IEEE 802.11a
Frequency	5260
SAR 10g (W/Kg)	0.076
SAR 1g (W/Kg)	0.187
ConvF	1.87
Relative permittivity	35.68
Conductivity (S/m)	5.06

Maximum location: X=24.00, Y=-48.00 ; SAR Peak: 1.44 W/kg

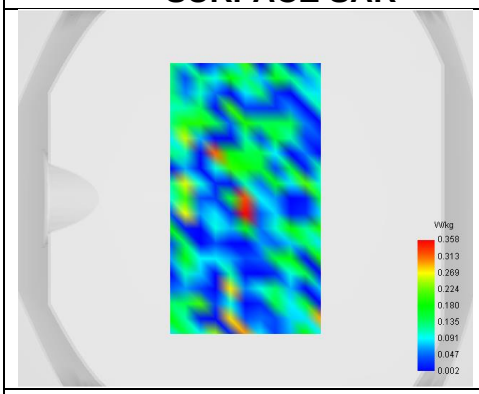
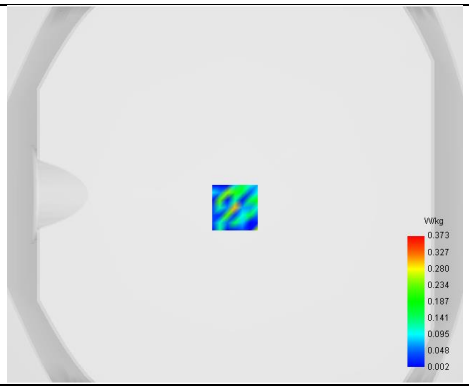
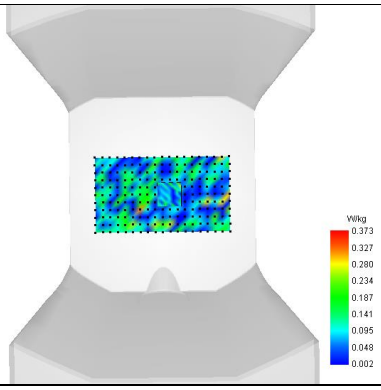
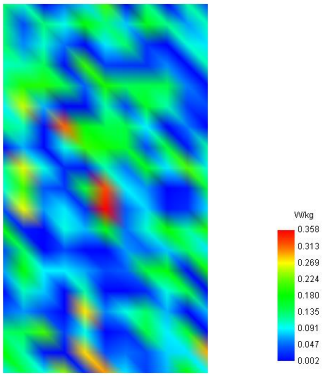
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

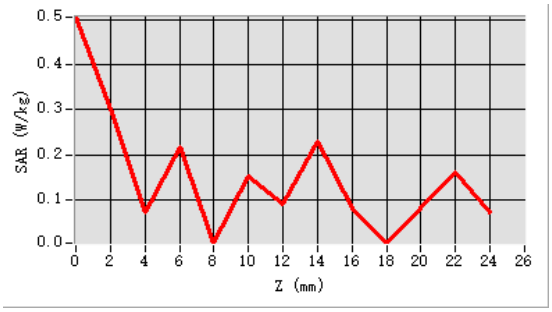


Plot 10:

Test Date	2025-03-23
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	U-NII-2a ANT 2
Signal	IEEE 802.11ax 20
Frequency	5260
SAR 10g (W/Kg)	0.074
SAR 1g (W/Kg)	0.114
ConvF	1.87
Relative permittivity	35.68
Conductivity (S/m)	5.06

Maximum location: X=0.00, Y=-7.00 ; SAR Peak: 0.93 W/kg

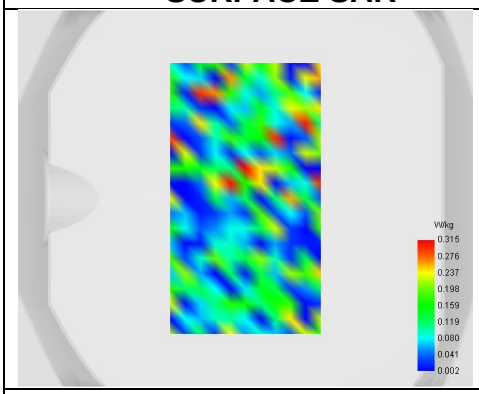
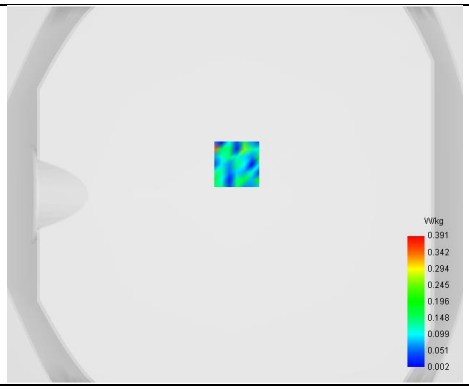
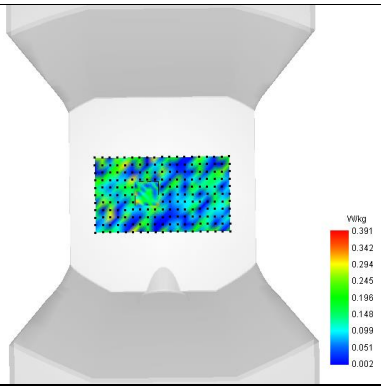
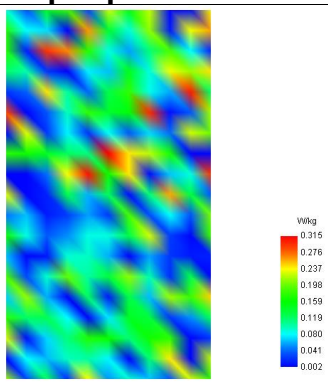
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

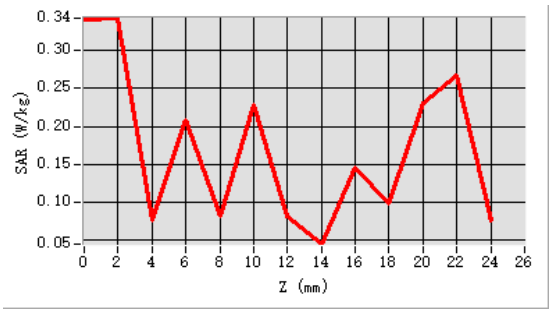


Plot 11:

Test Date	2025-03-23
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	U-NII-2 MIMO ANT 1
Signal	IEEE 802.11ax 20
Frequency	5260
SAR 10g (W/Kg)	0.083
SAR 1g (W/Kg)	0.159
ConvF	1.87
Relative permittivity	35.68
Conductivity (S/m)	5.06

Maximum location: X=1.00, Y=16.00 ; SAR Peak: 1.08 W/kg

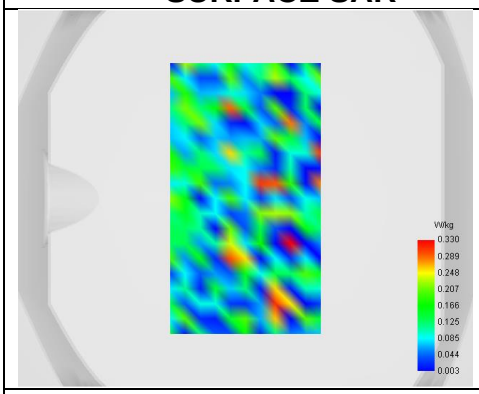
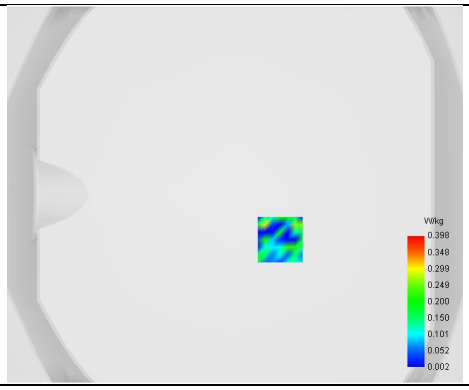
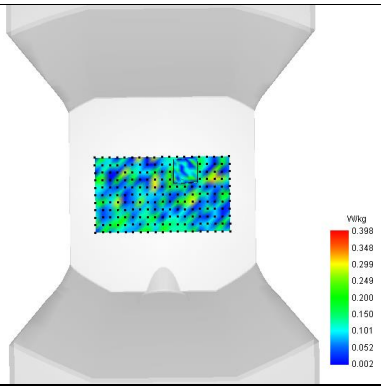
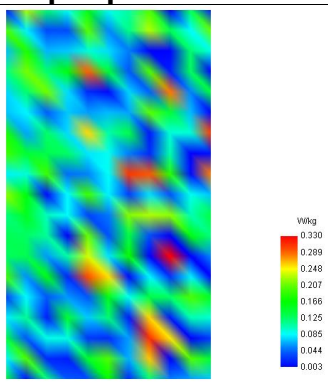
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

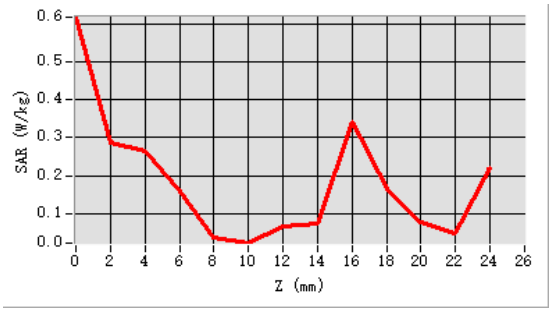


Plot 12:

Test Date	2025-03-23
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	U-NII-2 MIMO ANT 2
Signal	IEEE 802.11ax 20
Frequency	5260
SAR 10g (W/Kg)	0.078
SAR 1g (W/Kg)	0.122
ConvF	1.87
Relative permittivity	35.68
Conductivity (S/m)	5.06

Maximum location: X=24.00, Y=-24.00 ; SAR Peak: 1.08 W/kg

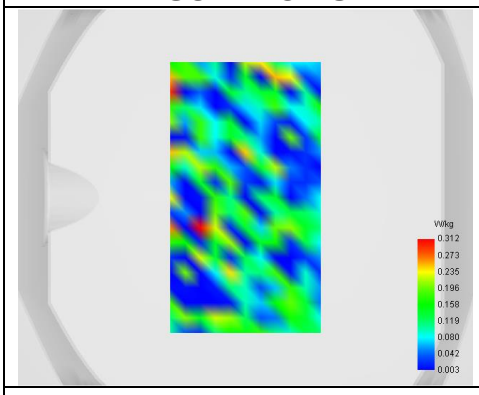
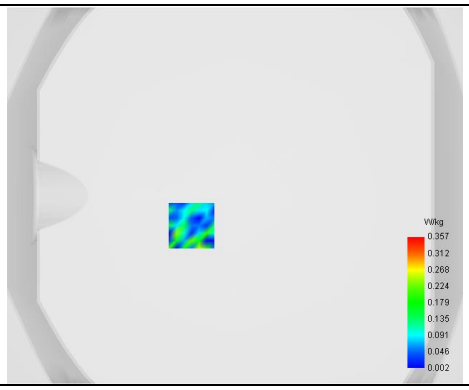
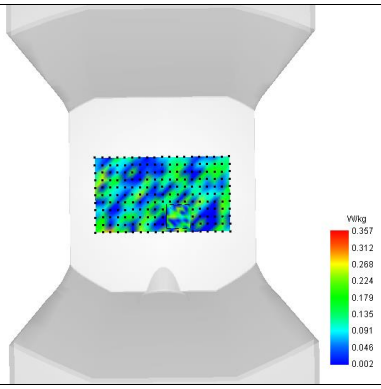
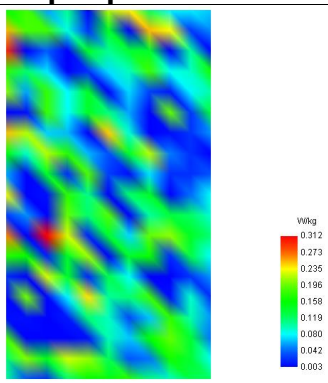
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

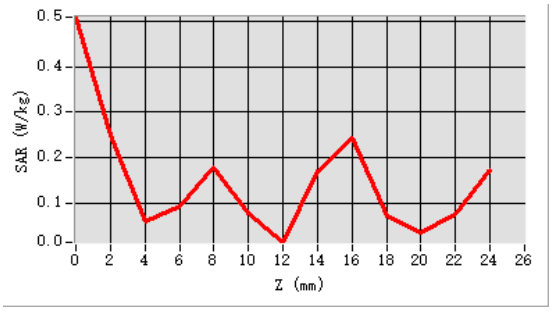


Plot 13:

Test Date	2025-03-26
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	U-NII-2 ANT 1
Signal	IEEE 802.11ax 20
Frequency	5500
SAR 10g (W/Kg)	0.096
SAR 1g (W/Kg)	0.214
ConvF	1.87
Relative permittivity	35.68
Conductivity (S/m)	5.06

Maximum location: X=-23.00, Y=-16.00 ; SAR Peak: 1.13 W/kg

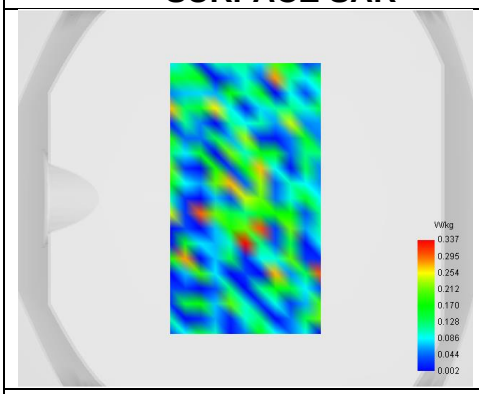
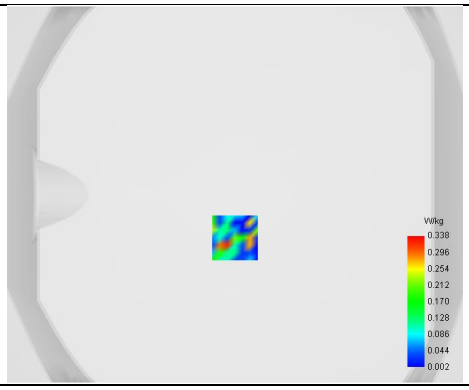
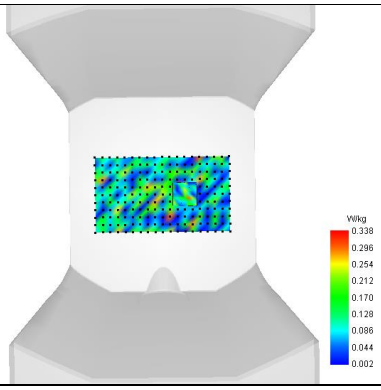
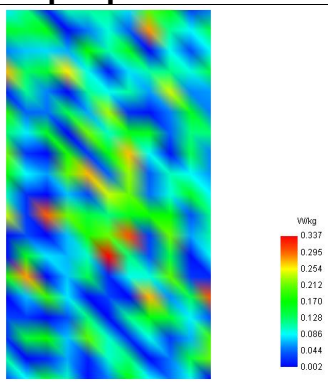
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

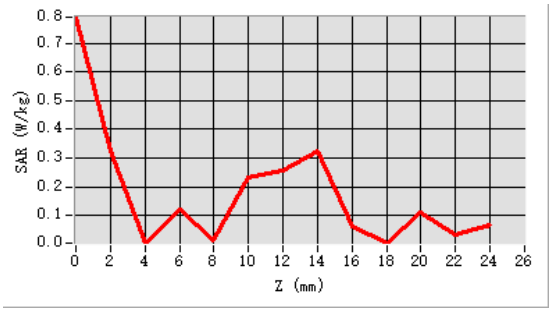


Plot 14:

Test Date	2025-03-26
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	U-NII-2 ANT 2
Signal	IEEE 802.11ax 20
Frequency	5580
SAR 10g (W/Kg)	0.088
SAR 1g (W/Kg)	0.196
ConvF	1.87
Relative permittivity	35.68
Conductivity (S/m)	5.06

Maximum location: X=0.00, Y=-23.00 ; SAR Peak: 1.28 W/kg

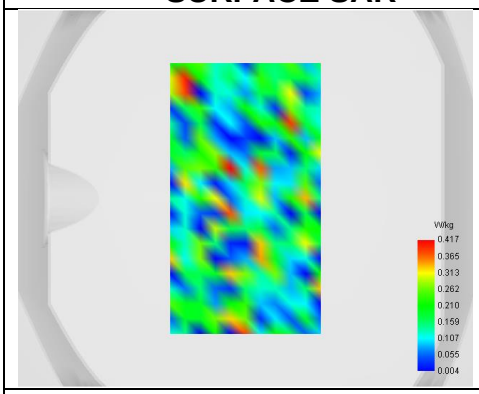
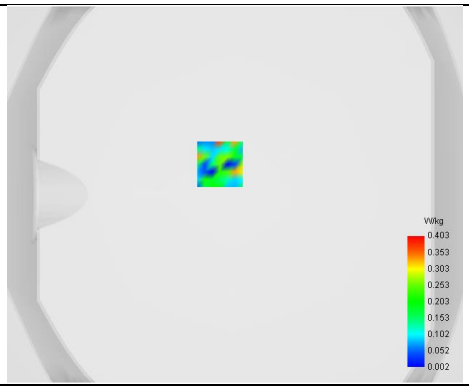
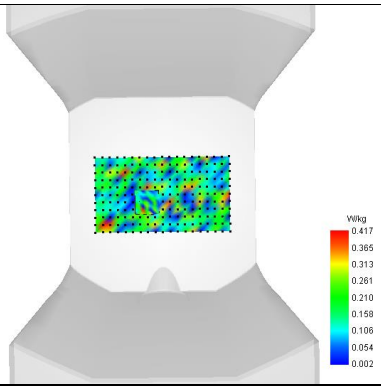
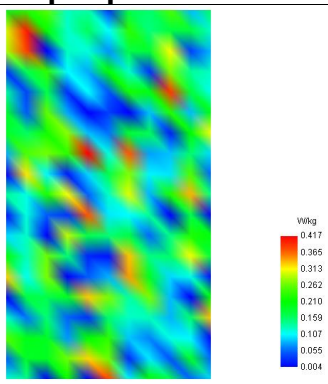
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

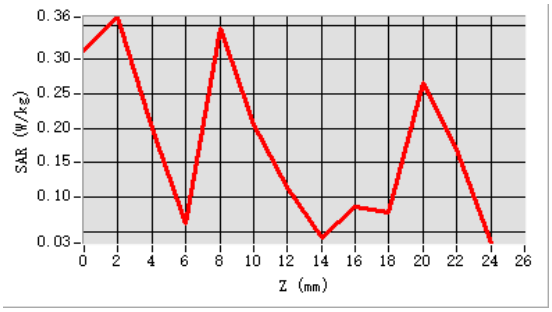


Plot 15:

Test Date	2025-03-26
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	U-NII-2c MIMO ANT 1
Signal	IEEE 802.11ax 20
Frequency	5500
SAR 10g (W/Kg)	0.125
SAR 1g (W/Kg)	0.295
ConvF	1.87
Relative permittivity	35.68
Conductivity (S/m)	5.06

Maximum location: X=-8.00, Y=16.00 ; SAR Peak: 1.39 W/kg

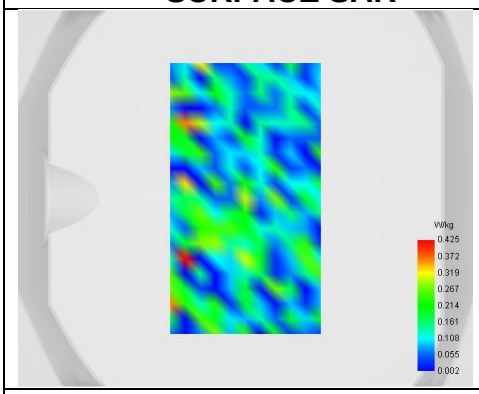
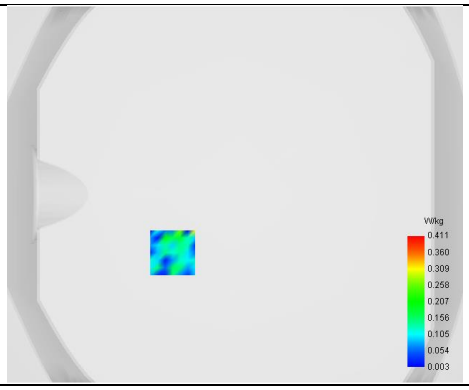
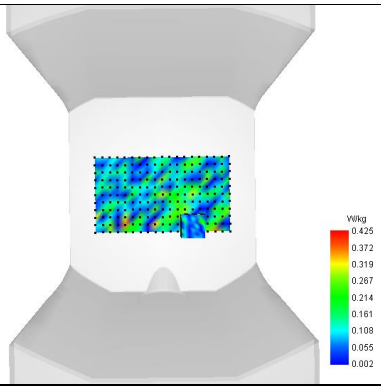
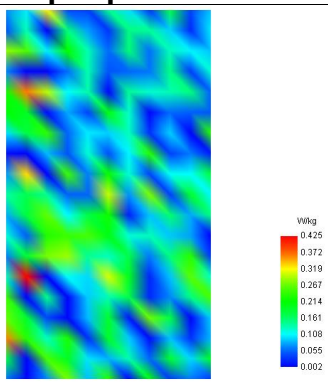
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

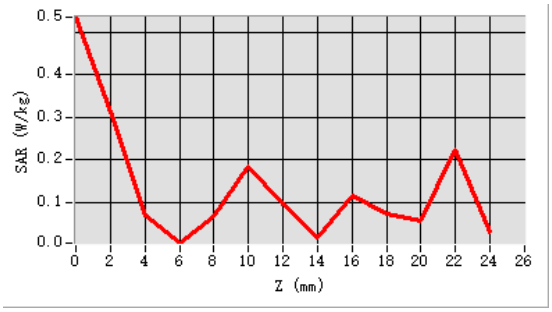


Plot 16:

Test Date	2025-03-26
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	U-NII-2c MIMO ANT 2
Signal	IEEE 802.11ax 20
Frequency	5500
SAR 10g (W/Kg)	0.075
SAR 1g (W/Kg)	0.152
ConvF	1.87
Relative permittivity	35.68
Conductivity (S/m)	5.06

Maximum location: X=-33.00, Y=-31.00 ; SAR Peak: 1.18 W/kg

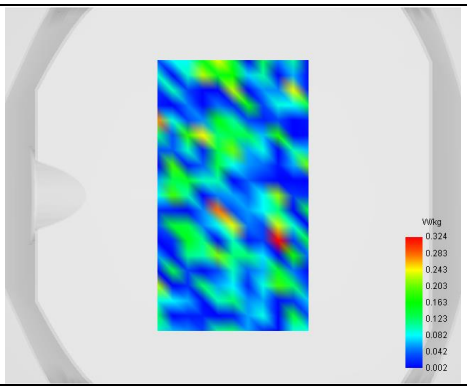
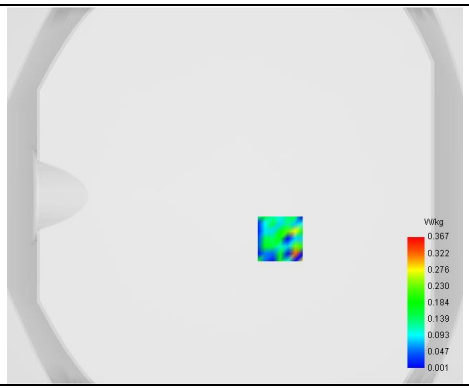
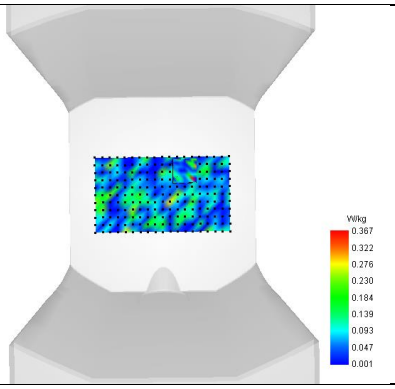
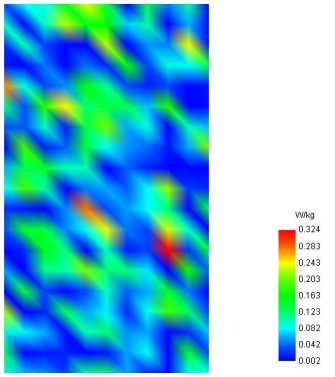
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

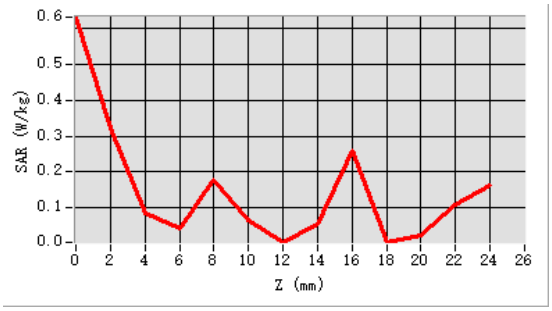


Plot 17:

Test Date	2025-03-25
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	U-NII-3 ANT 1
Signal	IEEE 802.11a
Frequency	5825
SAR 10g (W/Kg)	0.071
SAR 1g (W/Kg)	0.191
ConvF	1.70
Relative permittivity	36.60
Conductivity (S/m)	5.18

Maximum location: X=24.00, Y=-23.00 ; SAR Peak: 1.44 W/kg

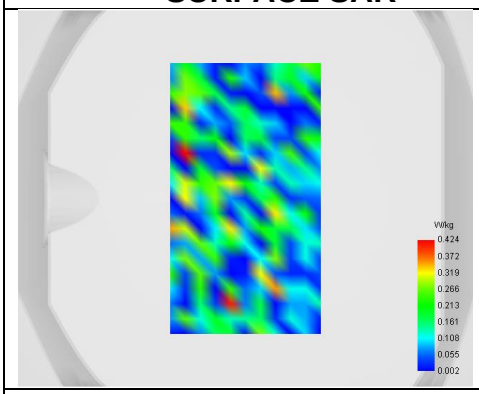
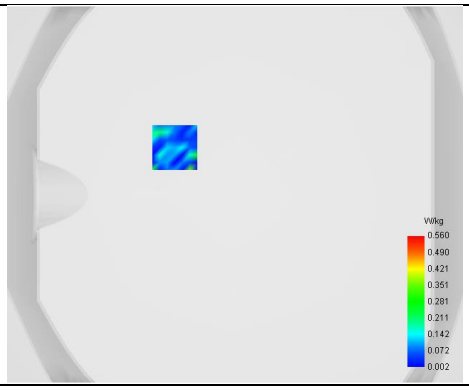
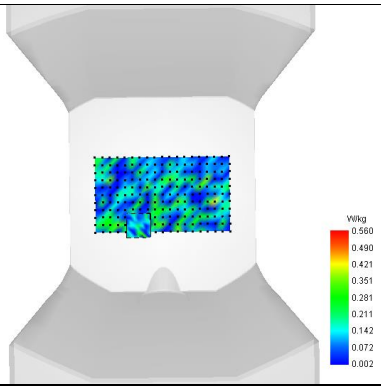
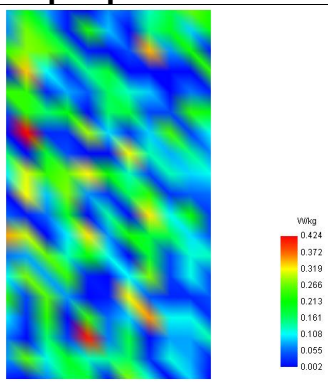
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

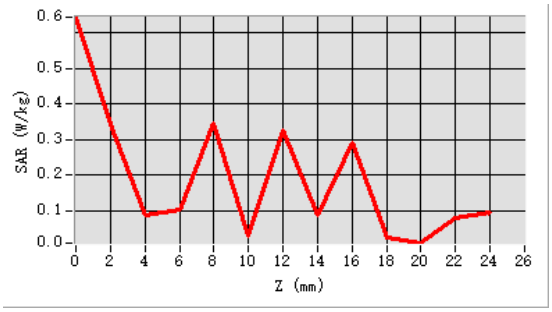


Plot 18:

Test Date	2025-03-25
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	U-NII-3 ANT 2
Signal	IEEE 802.11ax 40
Frequency	5755
SAR 10g (W/Kg)	0.081
SAR 1g (W/Kg)	0.170
ConvF	1.70
Relative permittivity	36.60
Conductivity (S/m)	5.18

Maximum location: X=-32.00, Y=25.00 ; SAR Peak: 1.28 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

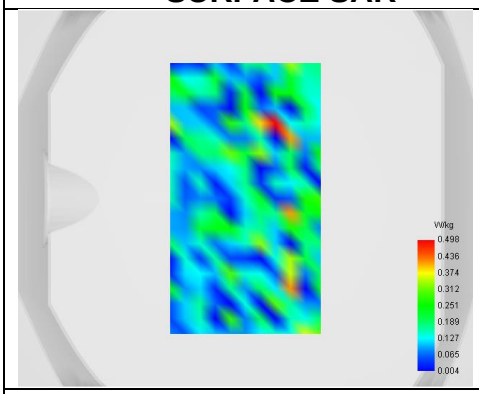


Plot 19:

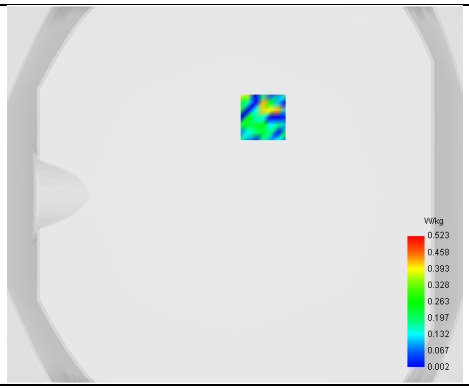
Test Date	2025-03-25
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	U-NII-3 MIMO ANT 1
Signal	IEEE 802.11ac 40
Frequency	5755
SAR 10g (W/Kg)	0.133
SAR 1g (W/Kg)	0.359
ConvF	1.70
Relative permittivity	36.60
Conductivity (S/m)	5.18

Maximum location: X=15.00, Y=41.00 ; SAR Peak: 1.96 W/kg

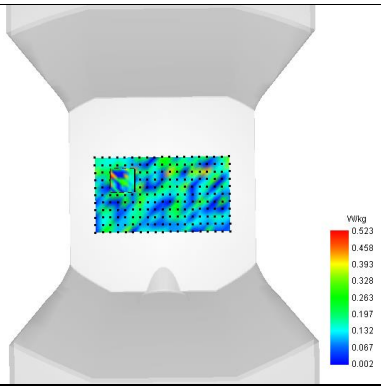
SURFACE SAR



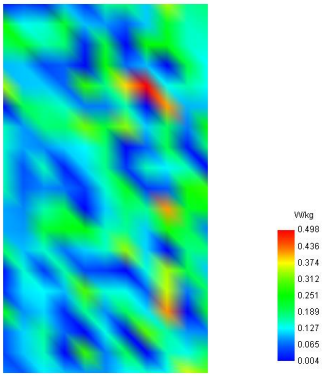
VOLUME SAR

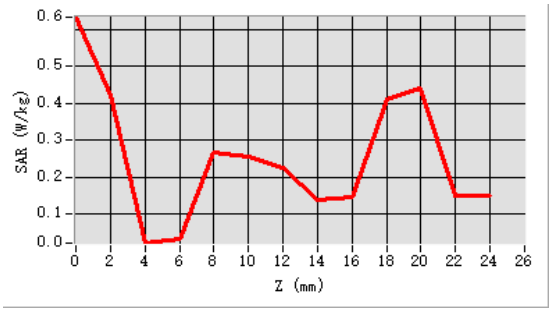


3D screen shot



Hot spot position

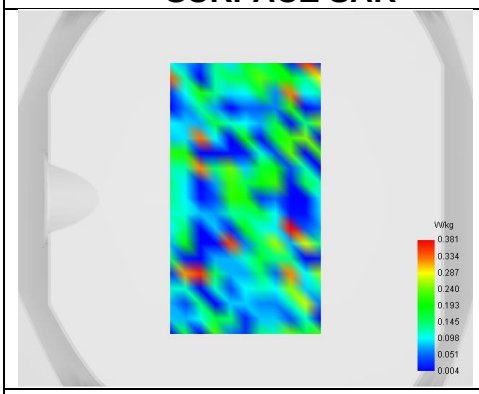
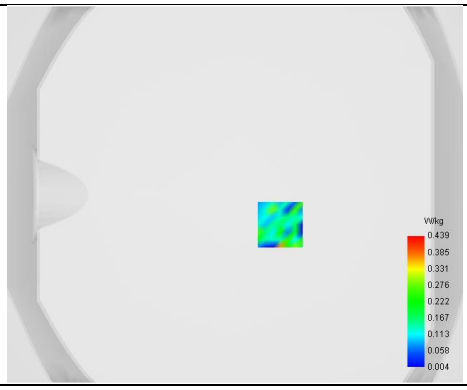
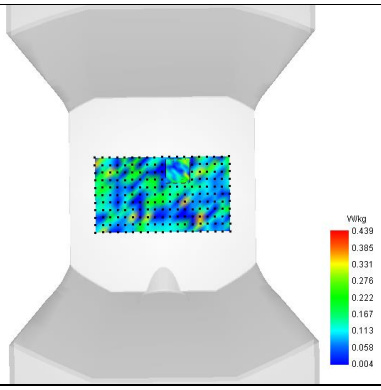
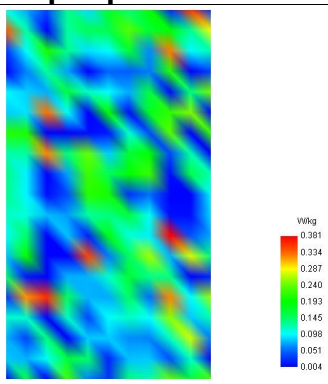


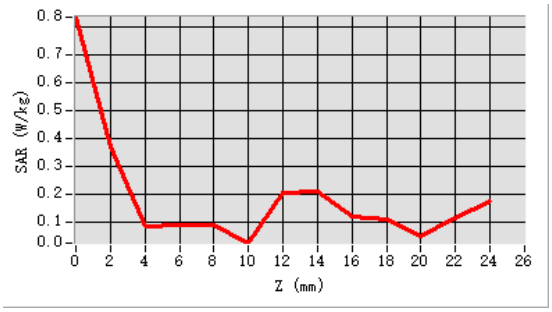


Plot 20:

Test Date	2025-03-25
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	U-NII-3 MIMO ANT 2
Signal	IEEE 802.11ac 40
Frequency	5755
SAR 10g (W/Kg)	0.086
SAR 1g (W/Kg)	0.168
ConvF	1.70
Relative permittivity	36.60
Conductivity (S/m)	5.18

Maximum location: X=24.00, Y=-16.00 ; SAR Peak: 1.27 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	



Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※