Simultaneous Multi-band Transmission Evaluation:
Application Simultaneous Transmission information:

Position	Simultaneous State
Head	1. GSM + 2.4GHz WLAN/5G WLAN
	2. GSM + Bluetooth
	3. WCDMA + 2.4GHz WLAN/5G WLAN
	4. WCDMA + Bluetooth
	5. LTE + 2.4GHz WLAN/5G WLAN
	6. LTE + Bluetooth
	7.CDMA + 2.4GHz WLAN
	8.CDMA + 5GHz WLAN
	9.CDMA + Bluetooth
Body	1. GSM + 2.4GHz WLAN/5G WLAN
	2. GSM + Bluetooth
	3. WCDMA + 2.4GHz WLAN/5G WLAN
	4. WCDMA + Bluetooth
	5. LTE + 2.4GHz WLAN/5G WLAN
	6. LTE + Bluetooth
	7.CDMA + 2.4GHz WLAN
	8.CDMA + 5GHz WLAN
	9.CDMA + Bluetooth

NOTE:
1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
4. KDB 447498 Appendix E, when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
SARest =1.6 · Pant / Pth [W/kg].
Pant is maximum time-averaged power or effective radiated power (ERP), whichever is greater, and Pth is defined in Formula KDB 447498 (B.2). When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR-1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR-1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

Simultaneous Mode	Position	Mode	Max. 1-g SAR (W/kg)	1-g Sum SAR (W/kg)
GSM + 2.4G WLAN	Head	GSM	0.105	0.379
		2.4G WLAN	0.274	
	Body	GSM	0.316	0.442
		2.4G WLAN	0.126	
GSM + Bluetooth	Head	GSM	0.105	0.361
		Bluetooth	0.256	
	Body	GSM	0.316	0.437
		Bluetooth	0.121	
GSM + 5G WLAN	Head	GSM	0.105	0.888
		5G WLAN	0.783	
	Body	GSM	0.315	0.695
		5G WLAN	0.380	
WCDMA + 2.4G WLAN	Head	WCDMA	0.124	0.398
		2.4G WLAN	0.274	
	Body	WCDMA	0.554	0.680
		2.4G WLAN	0.126	
WCDMA + Bluetooth	Head	WCDMA	0.124	0.380
		Bluetooth	0.256	
	Body	WCDMA	0.554	0.675
		Bluetooth	0.121	
WCDMA + 5G WLAN	Head	WCDMA	0.124	0.907
		5G WLAN	0.783	
	Body	WCDMA	0.554	0.934
		5G WLAN	0.380	
LTE + 2.4G WLAN	Head	LTE	0.181	0.455
		2.4G WLAN	0.274	
	Body	LTE	1.214	1.340
		2.4G WLAN	0.126	
LTE + Bluetooth	Head	LTE	0.181	0.437
		Bluetooth	0.256	
	Body	LTE	1.214	1.335
		Bluetooth	0.121	
LTE + 5G WLAN	Head	LTE	0.181	0.964
		5G WLAN	0.783	
	Body	LTE	1.214	1.594
		5G WLAN	0.380	
CDMA + 2.4G WLAN	Head	CDMA	0.055	0.329
		2.4G WLAN	0.274	
	Body	CDMA	0.081	0.207
		2.4G WLAN	0.126	
CDMA + 5G WLAN	Head	CDMA	0.055	0.311
		Bluetooth	0.256	
	Body	CDMA	0.081	0.202
		Bluetooth	0.121	

CDMA + BT	Head	CDMA	0.055	0.838
		5G WLAN	0.783	
	Body	CDMA	0.081	0.461
		5G WLAN	0.380	

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.

When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR-1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR-1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	MVG	DIP0G750	SN 06/22 DIP0G750-638	2022.02.11	2025.02.10
835MHz Dipole	MVG	DIP0G835	SN 06/22 DIP0G835-639	2022.02.11	2025.02.10
1800MHz Dipole	MVG	DIP1G800	SN 06/22 DIP1G800-640	2022.02.11	2025.02.10
1900MHz Dipole	MVG	DIP1G900	SN 06/22 DIP1G900-641	2022.02.11	2025.02.10
2450MHz Dipole	MVG	DIP2G450	SN 06/22 DIP2G450-645	2022.02.11	2025.02.10
2600MHz Dipole	MVG	DIP2G600	SN 06/22 DIP2G600-646	2022.02.11	2025.02.10
5000MHz Dipole	MVG	DIP5G000	SN 06/22 DIP5G000-653	2022.02.11	2025.02.10
E-Field Probe	MVG	EPGO364	SN 04/22 EPGO364	2023.02.10	2024.02.09
Liquid Calibration Kit	MVG	OCPG 87	SN 06/22 OCPG87	2023.02.10	2024.02.09
Antenna	MVG	ANTA 73	SN 06/22 ANTA 73	N/A	N/A
Ellipsoid Phantom	MVG	ELLI 51	SN 06/22 ELLI 51	N/A	N/A
Phantom	MVG	SAM 148	SN 06/22 SAM148	N/A	N/A
Phone holder	MVG	MSH 117	SN 06/22 MSH 117	N/A	N/A
Laptop holder	MVG	LSH 36	SN 06/22 LSH 38	N/A	N/A
Directional coupler	SHW	SHWDCP	202203280013	N/A	N/A
Network Analyzer	Agilent	E5071C	MY46418070	2023.03.27	2024.03.26
Multi Meter	Keithley	DMM6500	DMM6500	2023.03.27	2024.03.26
Signal Generator	Keithley	N5182B	MY59100717	2023.04.07	2024.04.06
Wireless Communication Test Set	R&S	CMW500	137737	2023.04.14	2024.04.13
Power Sensor	R&S	Z11	116184	2023.03.27	2024.03.26
Temperature hygrometer	N/A	ST-W2318	N/A	2023.04.24	2024.04.23
Thermograph	N/A	TP101	N/A	2023.04.25	2024.04.24

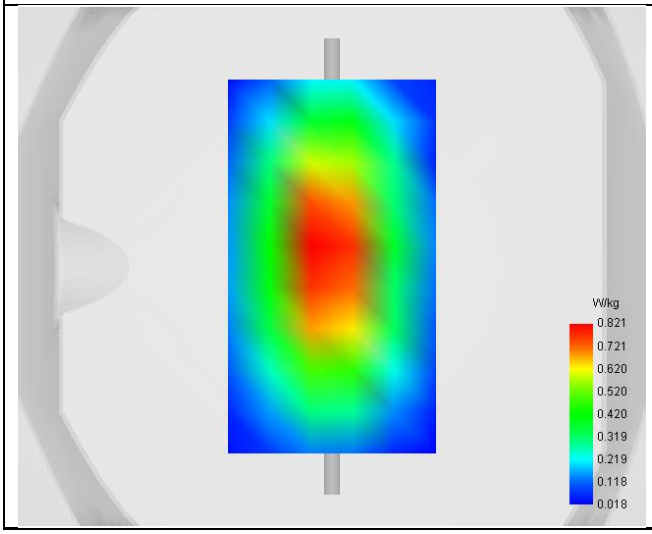
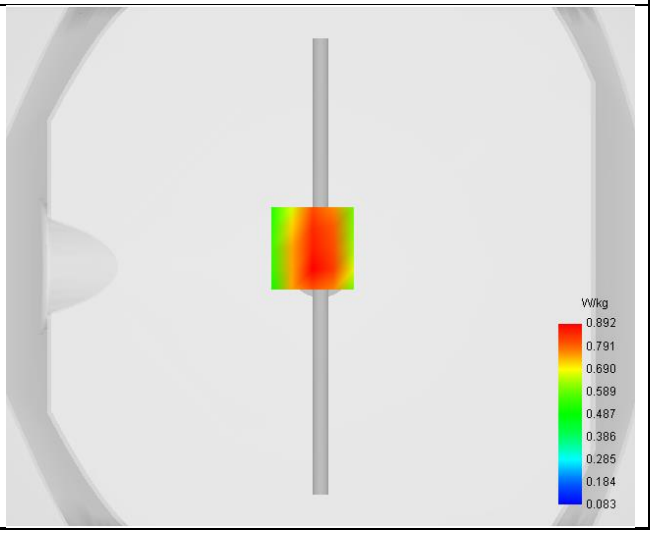
Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2023-05-17

Experimental conditions.

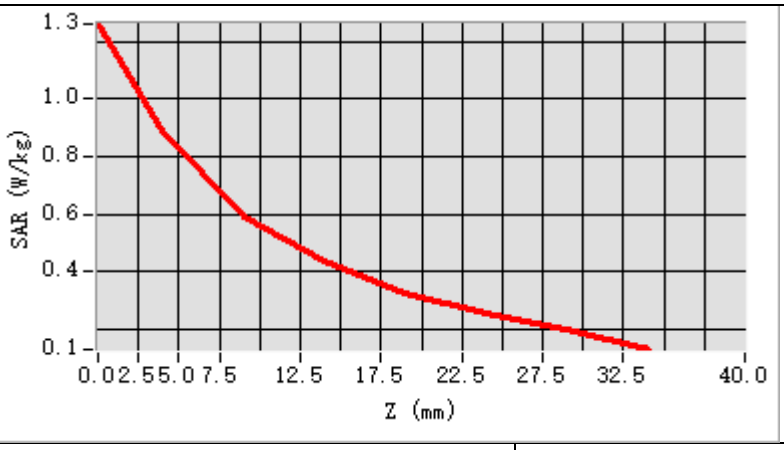
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	42.27
Conductivity (S/m)	0.87
Probe	SN 04/22 EPGO364
ConvF	1.69
Crest factor:	1:1

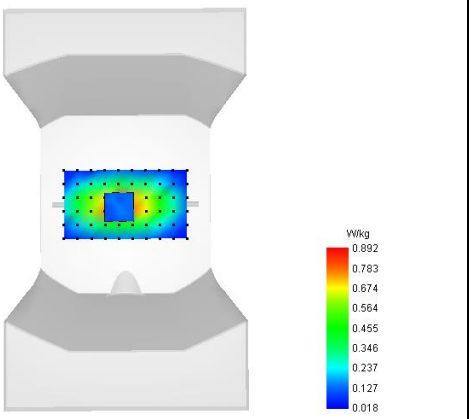
SURFACE SAR	VOLUME SAR
	

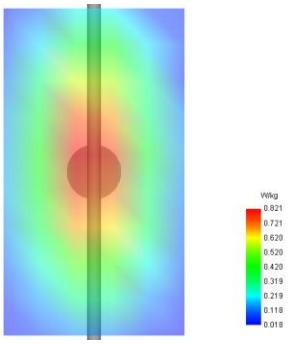
Maximum location: X=-3.00, Y=7.00 ; SAR Peak: 1.22 W/kg

SAR 10g (W/Kg)	0.599
SAR 1g (W/Kg)	0.903

Z Axis Scan


1.3
1.0
0.8
0.6
0.4
0.1
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)


W/kg
0.892
0.783
0.674
0.564
0.455
0.346
0.237
0.127
0.018

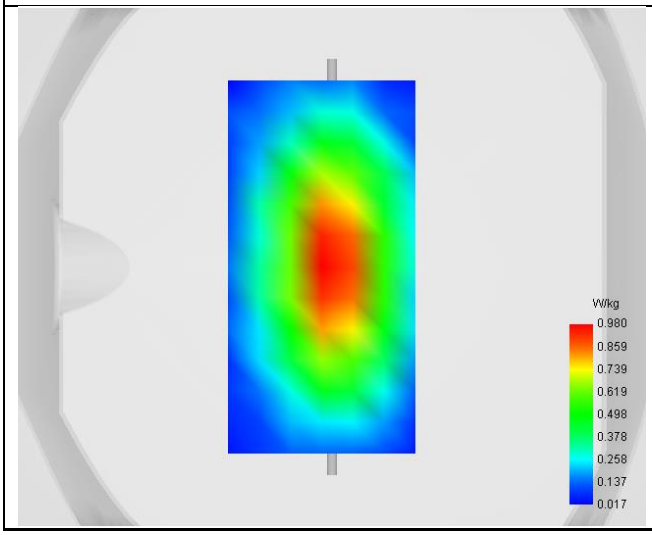
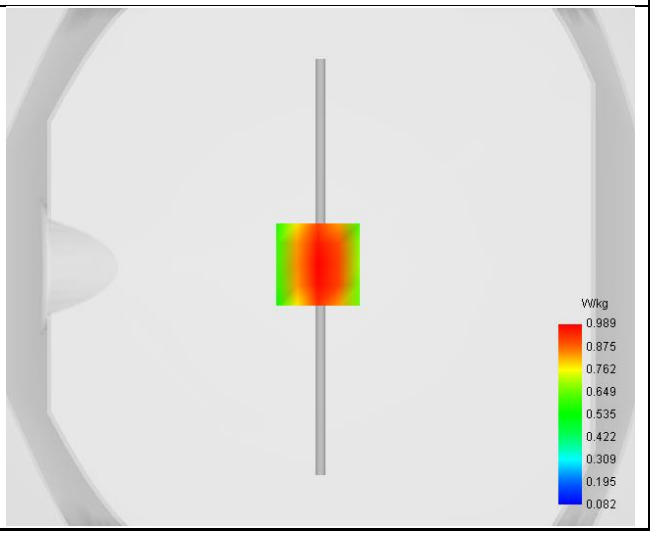


System Performance Check Data (835MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2023-05-18

Experimental conditions.

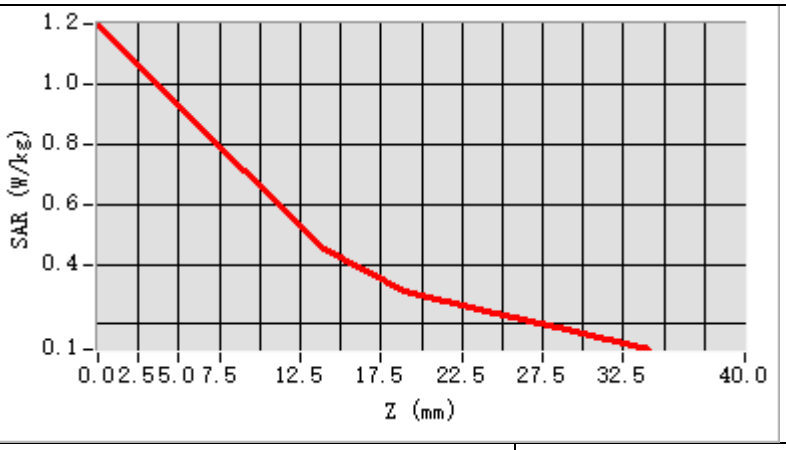
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	41.25
Conductivity (S/m)	0.92
Probe	SN 04/22 EPGO364
ConvF	1.72
Crest factor:	1:1

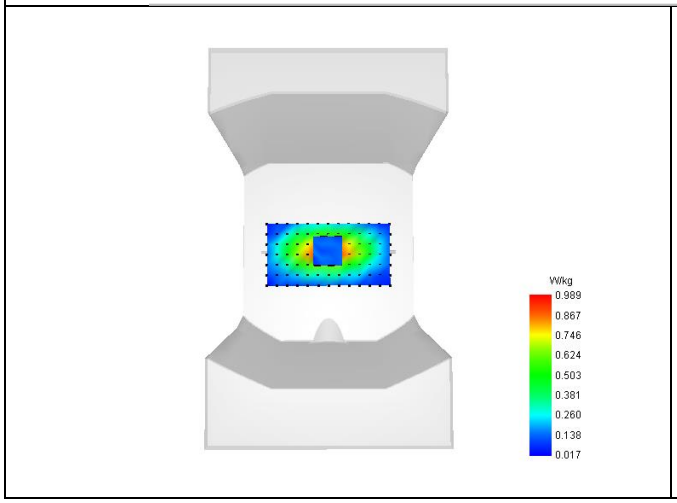
SURFACE SAR	VOLUME SAR
	

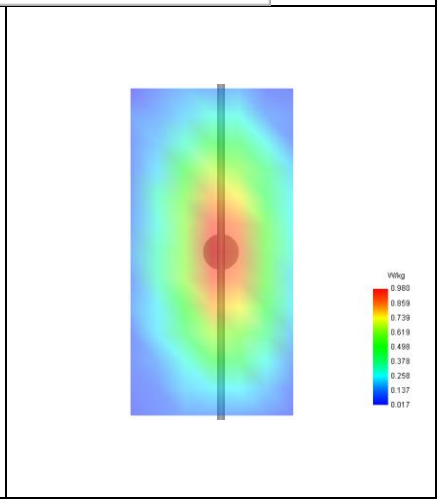
Maximum location: X=-1.00, Y=1.00 ; SAR Peak: 1.38 W/kg

SAR 10g (W/Kg)	0.621
SAR 1g (W/Kg)	0.950

Z Axis Scan


1.2
1.0
0.8
0.6
0.4
0.1
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)


W/kg
0.989
0.867
0.746
0.624
0.503
0.381
0.260
0.138
0.017

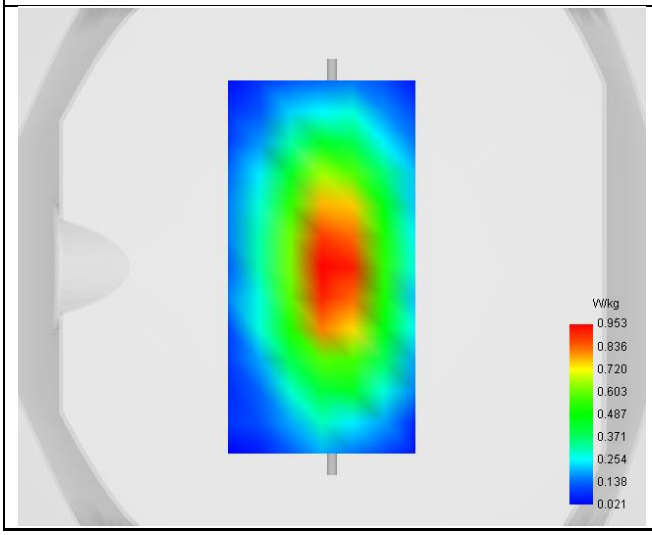
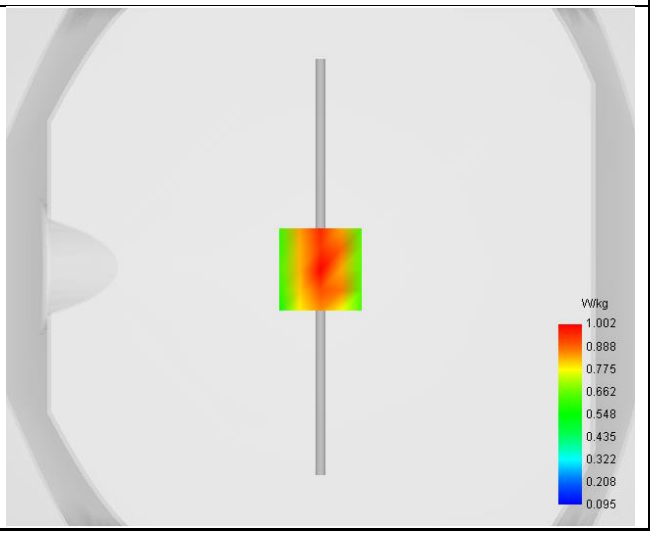


System Performance Check Data (835MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2023-05-22

Experimental conditions.

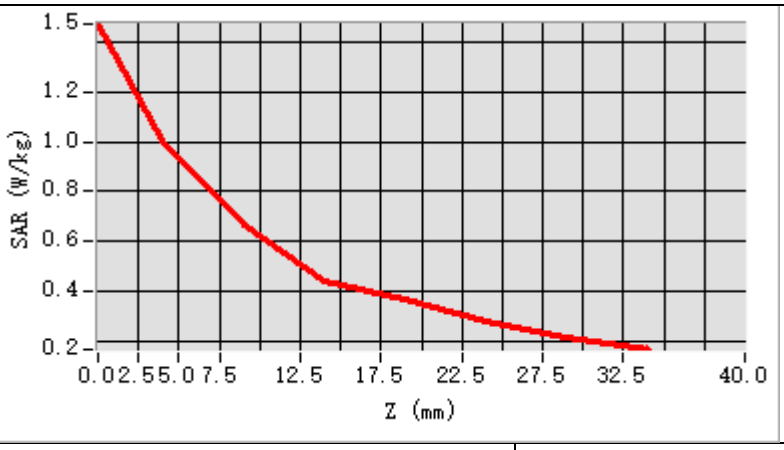
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	40.39
Conductivity (S/m)	0.91
Probe	SN 04/22 EPGO364
ConvF	1.72
Crest factor:	1:1

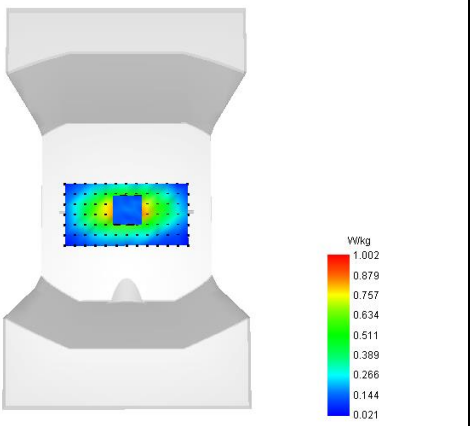
SURFACE SAR	VOLUME SAR
	

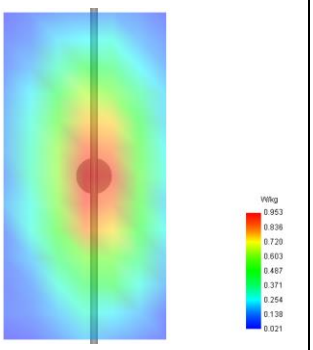
Maximum location: X=0.00, Y=-1.00 ; SAR Peak: 1.46 W/kg

SAR 10g (W/Kg)	0.611
SAR 1g (W/Kg)	0.940

Z Axis Scan


SAR (W/kg)
1.5
1.2
1.0
0.8
0.6
0.4
0.2
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)


W/kg
1.002
0.879
0.757
0.634
0.511
0.389
0.266
0.144
0.021

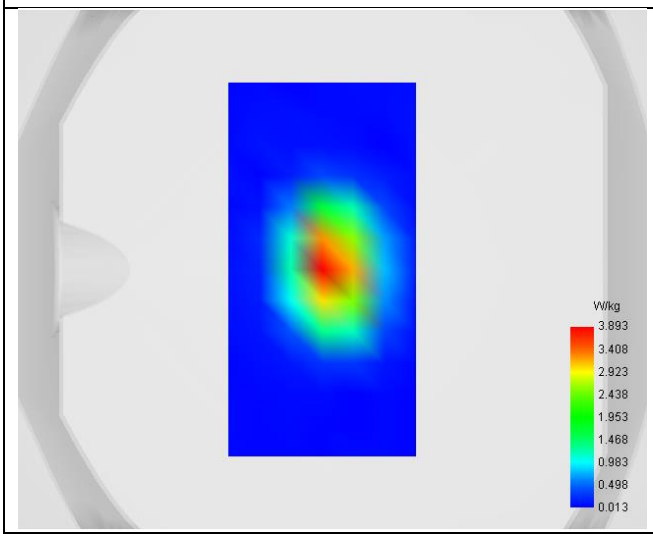
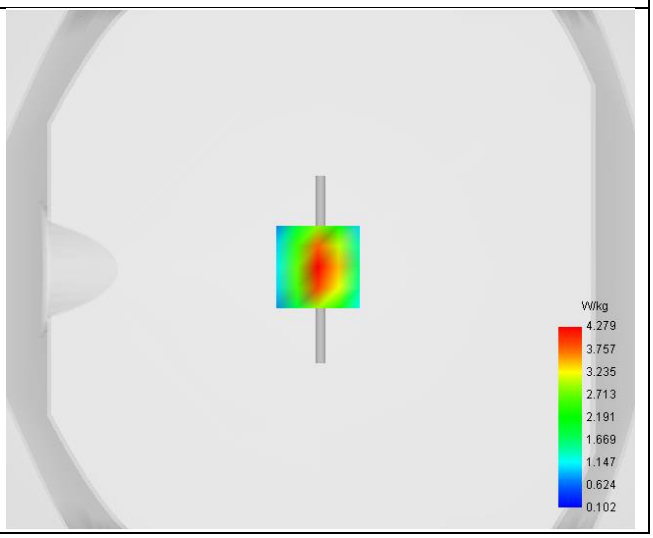


System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2023-05-19

Experimental conditions.

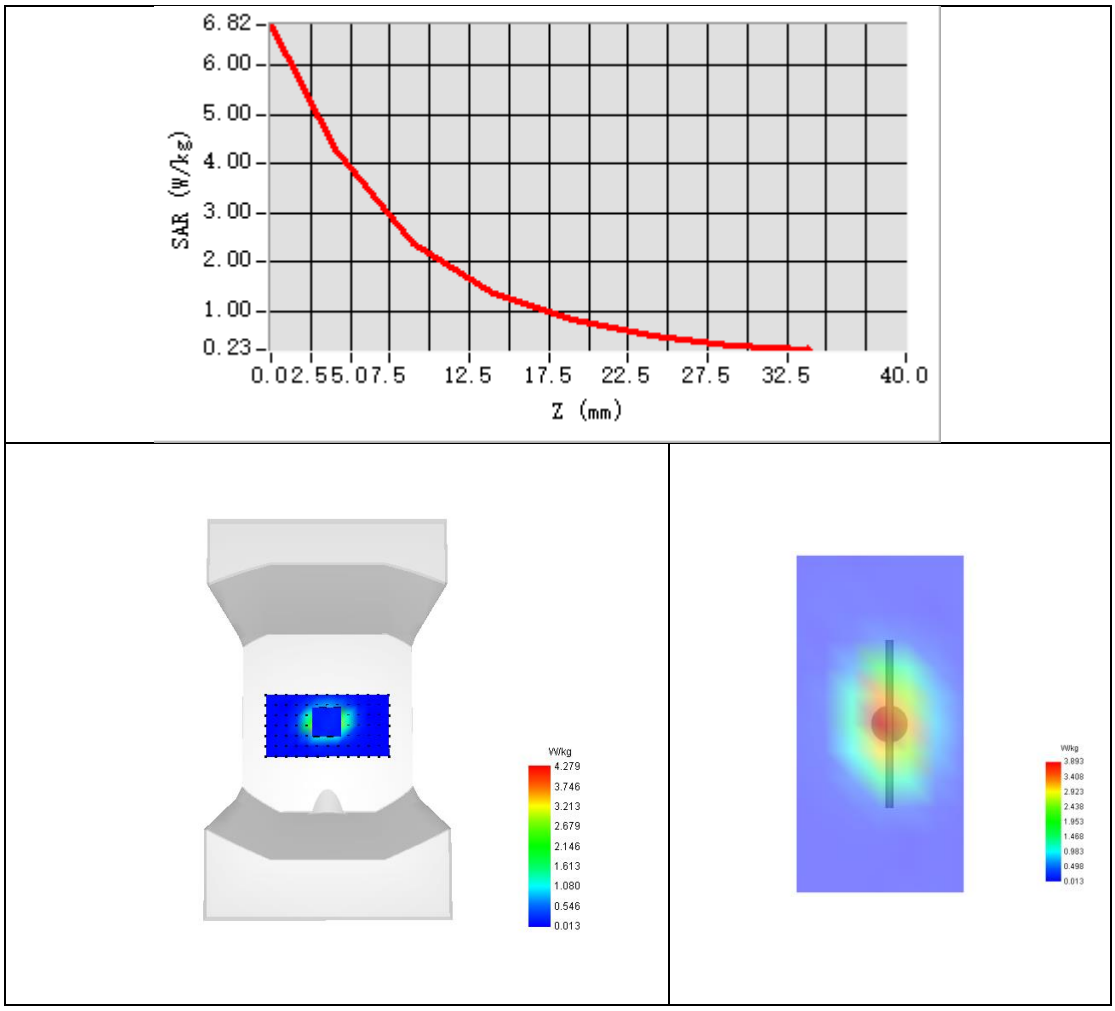
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	41.00
Conductivity (S/m)	1.39
Probe	SN 04/22 EPGO364
ConvF	1.95
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=-1.00, Y=1.00 ; SAR Peak: 6.87 W/kg

SAR 10g (W/Kg)	2.071
SAR 1g (W/Kg)	4.304

Z Axis Scan

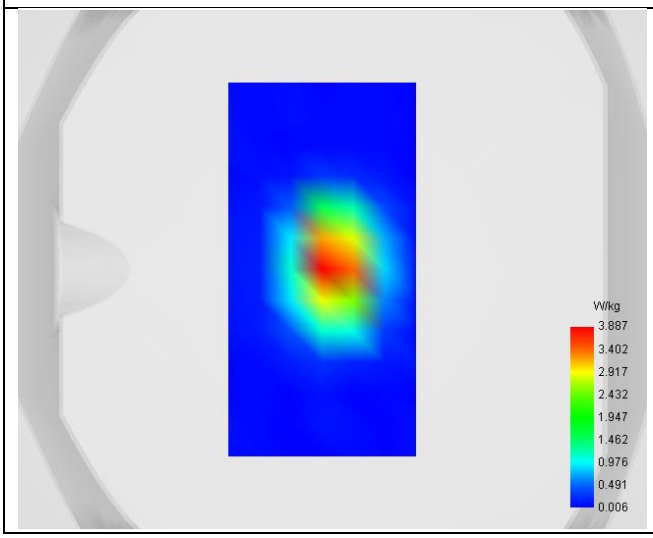
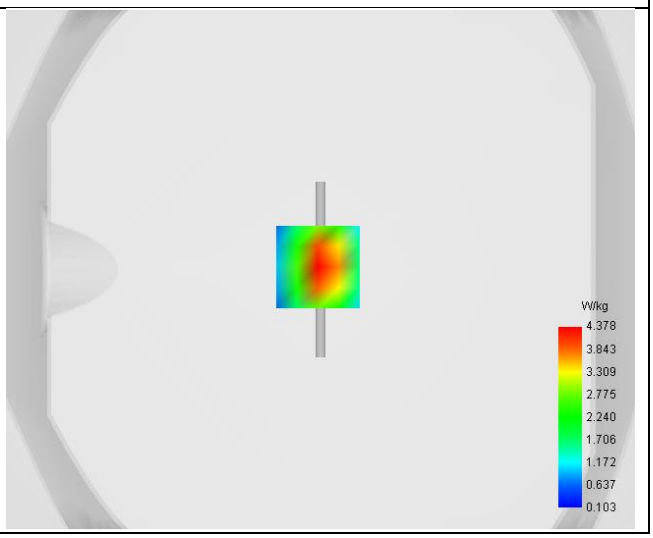

6.82
6.00
5.00
4.00
3.00
2.00
1.00
0.23
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)
W/kg
4.279
3.746
3.213
2.679
2.146
1.613
1.080
0.546
0.013
W/kg
3.893
3.408
2.923
2.438
1.953
1.468
0.983
0.498
0.013

System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2023-05-20

Experimental conditions.

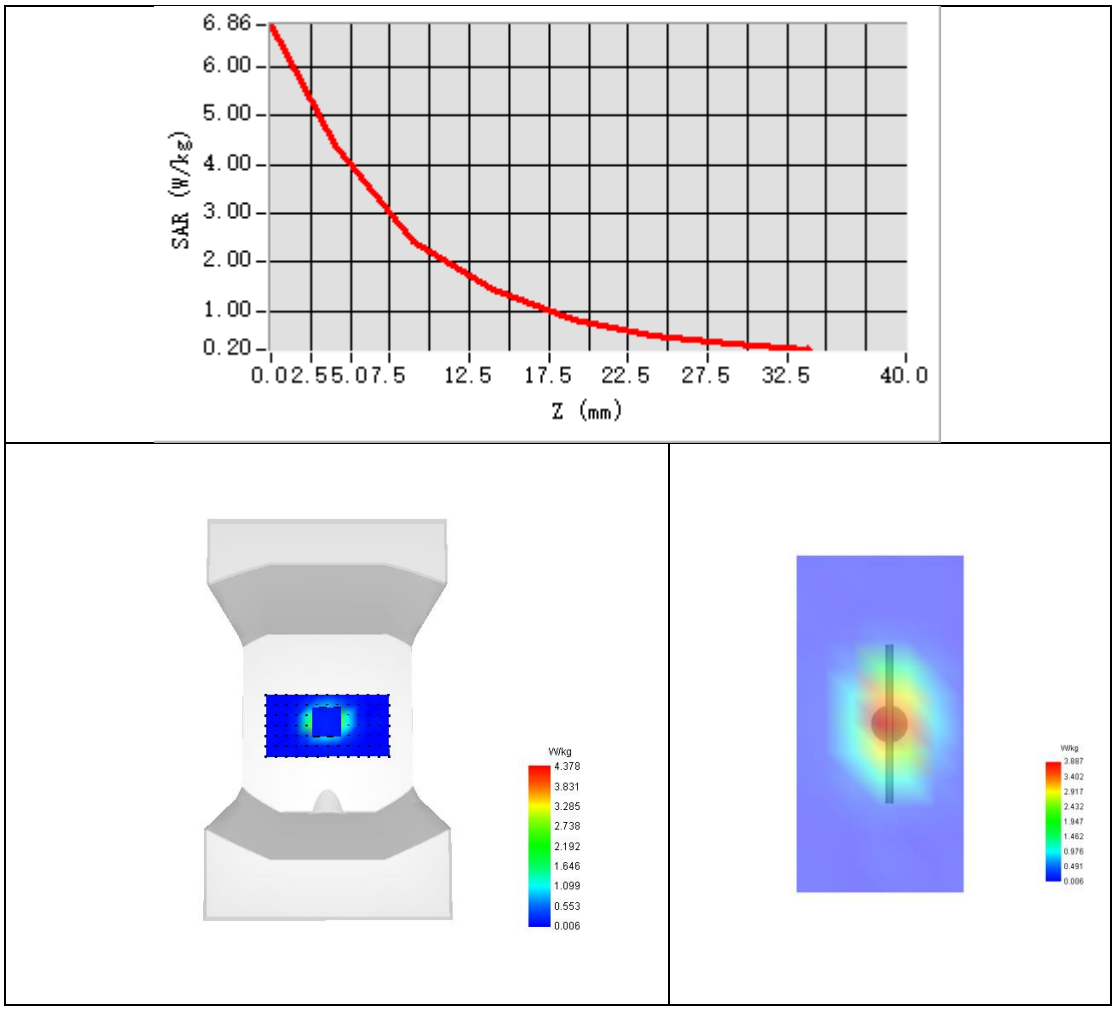
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	41.13
Conductivity (S/m)	1.39
Probe	SN 04/22 EPGO364
ConvF	2.25
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=5.00, Y=1.00 ; SAR Peak: 6.89 W/kg

SAR 10g (W/Kg)	2.048
SAR 1g (W/Kg)	4.193

Z Axis Scan

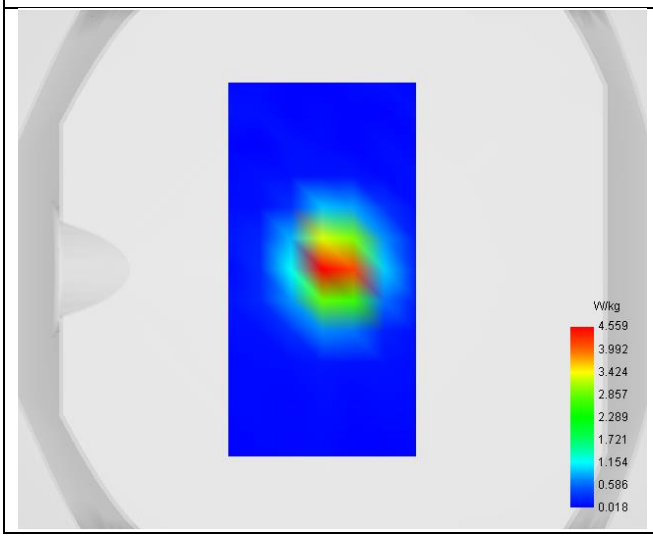
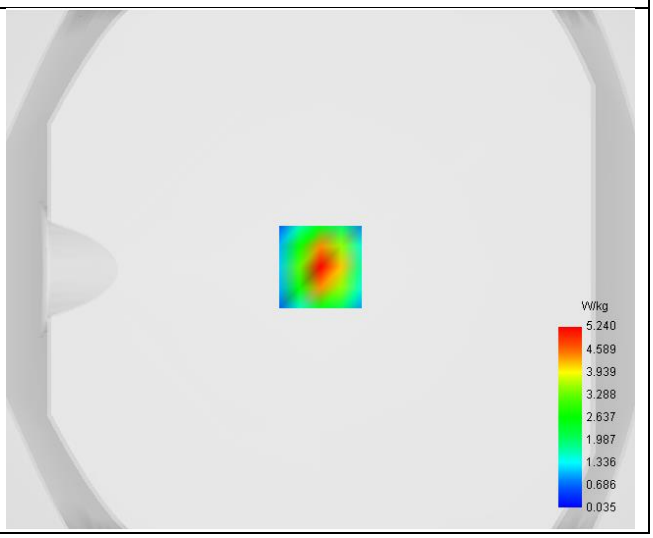

6.86
6.00
5.00
4.00
3.00
2.00
1.00
0.20
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)
W/kg
4.378
3.831
3.285
2.738
2.192
1.646
1.099
0.553
0.006
W/kg
3.897
3.402
2.917
2.432
1.947
1.462
0.976
0.491
0.006

System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2023-05-22

Experimental conditions.

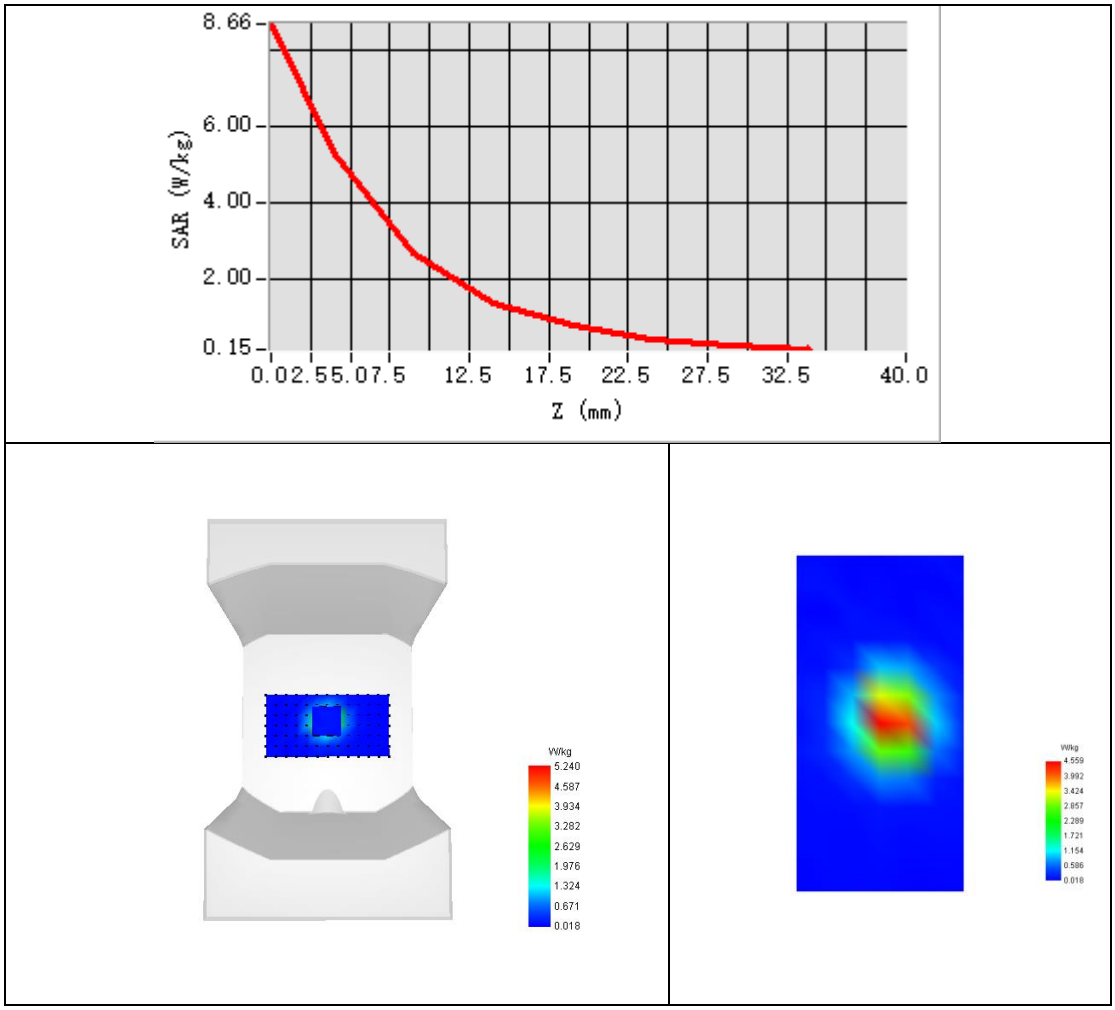
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW
Frequency (MHz)	2450.000
Relative permittivity	40.36
Conductivity (S/m)	1.85
Probe	SN 04/22 EPGO364
ConvF	2.33
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=0.00, Y=1.00 ; SAR Peak: 8.67 W/kg

SAR 10g (W/Kg)	2.289
SAR 1g (W/Kg)	4.986

Z Axis Scan

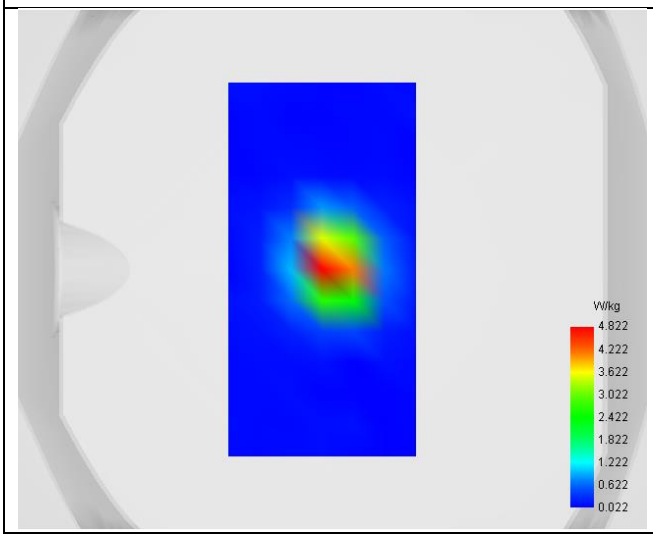
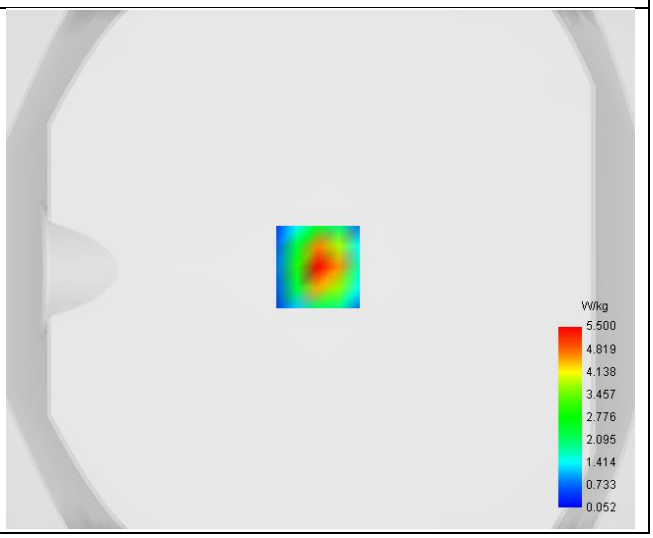

8.66
6.00
4.00
2.00
0.15
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)
W/kg
5.240
4.587
3.934
3.282
2.629
1.976
1.324
0.671
0.018
W/kg
4.559
3.992
3.424
2.857
2.289
1.721
1.154
0.586
0.018

System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2023-05-23

Experimental conditions.

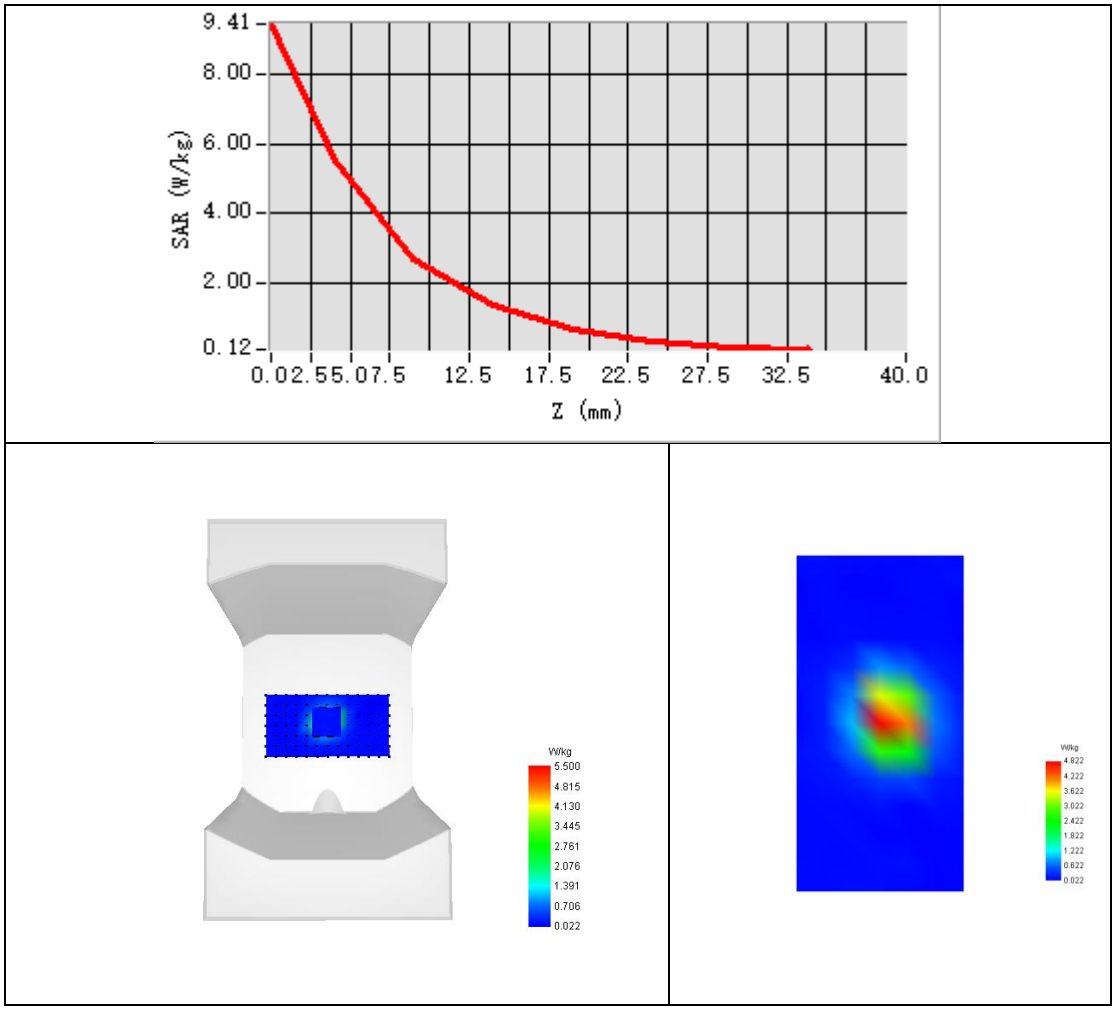
Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	39.78
Conductivity (S/m)	1.92
Probe	SN 04/22 EPGO364
ConvF	2.36
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=-1.00, Y=1.00 ; SAR Peak: 9.62 W/kg

SAR 10g (W/Kg)	2.321
SAR 1g (W/Kg)	5.236

Z Axis Scan

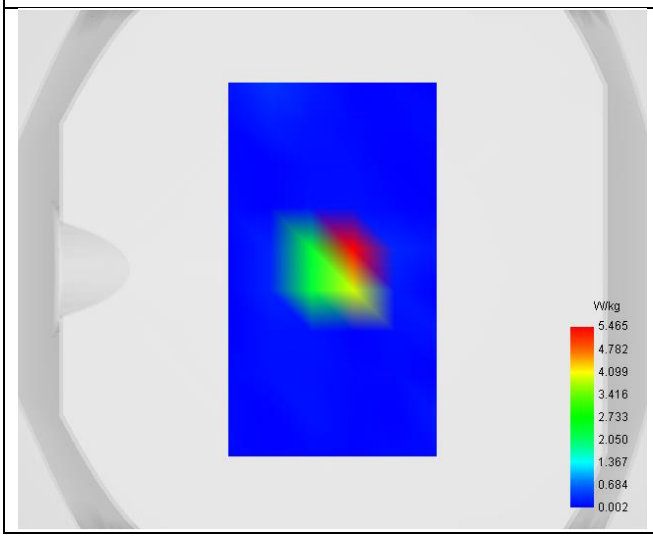
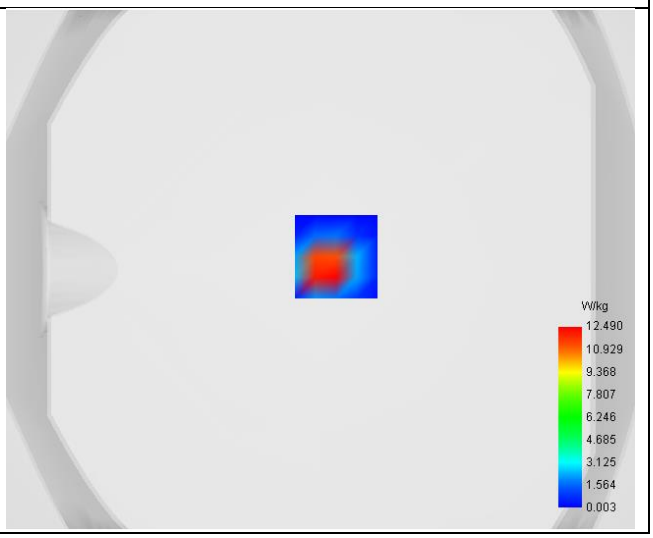

9.41
8.00
6.00
4.00
2.00
0.12
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)
W/kg
5.500
4.815
4.130
3.445
2.761
2.076
1.391
0.706
0.022
W/kg
4.822
4.222
3.622
3.022
2.422
1.822
1.222
0.622
0.022

System Performance Check Data (5200MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2023-05-24

Experimental conditions.

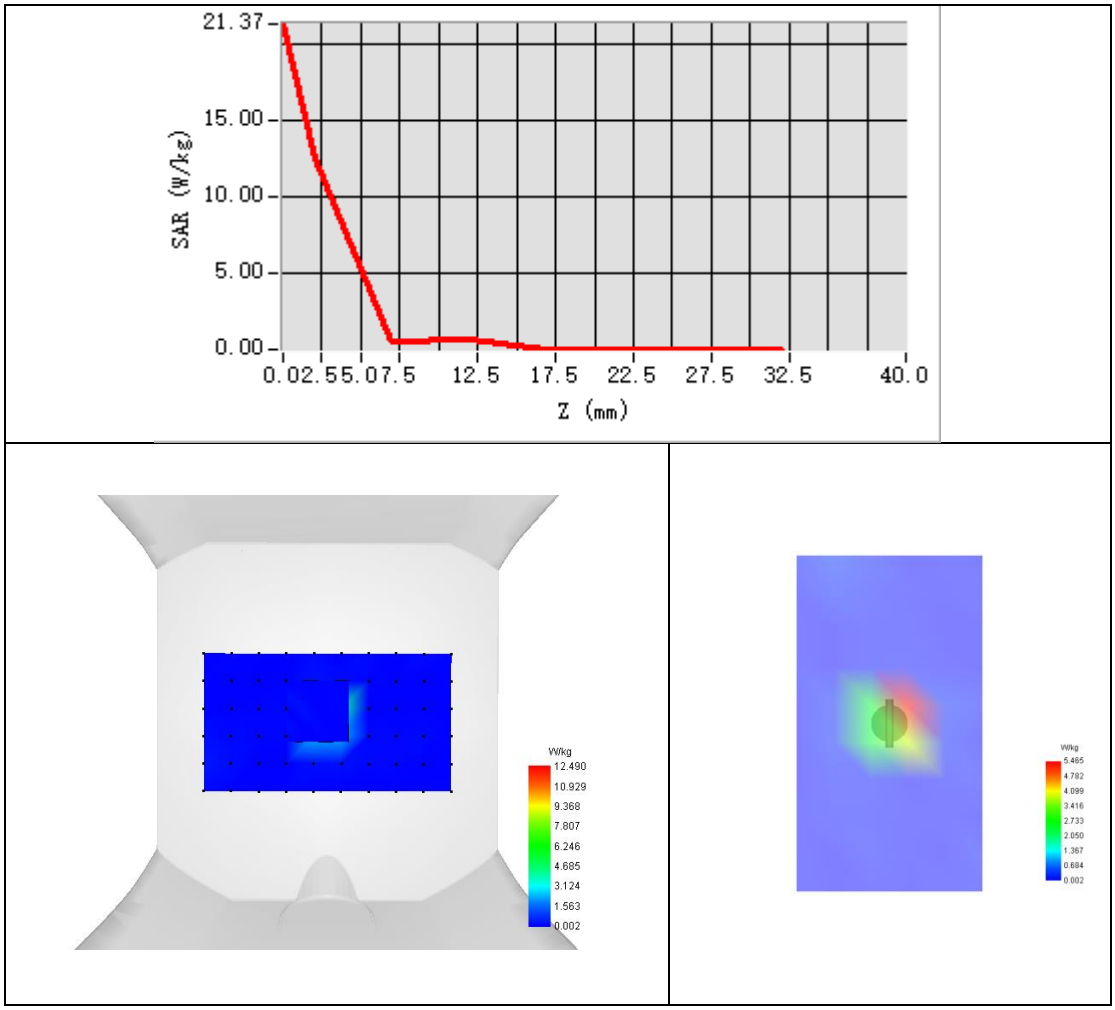
Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW
Frequency (MHz)	5200.000
Relative permittivity	37.19
Conductivity (S/m)	4.61
Probe	SN 04/22 EPGO364
ConvF	1.95
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=6.00, Y=5.00 ; SAR Peak: 26.47 W/kg

SAR 10g (W/Kg)	2.143
SAR 1g (W/Kg)	7.862

Z Axis Scan

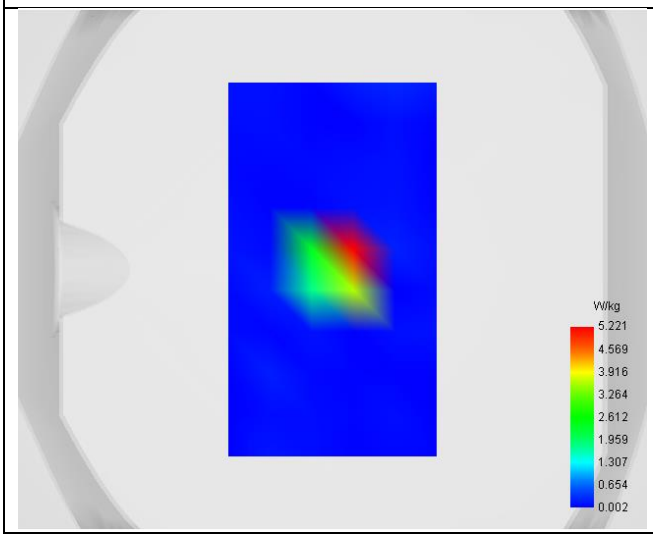
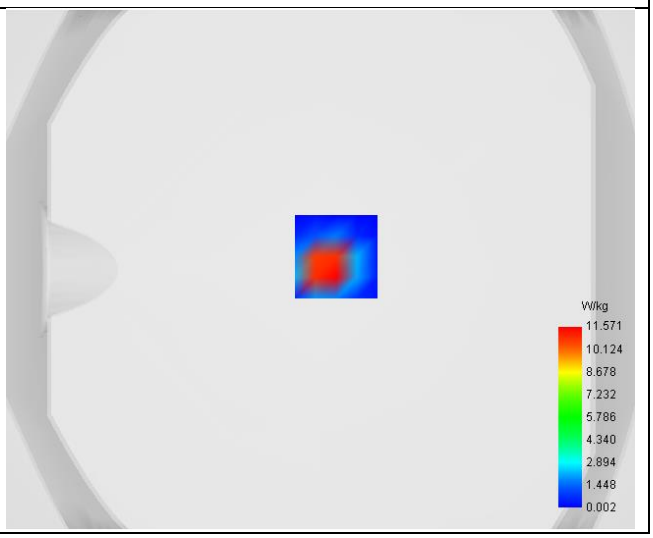

21.37
15.00
10.00
5.00
0.00
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)
W/kg
12.490
10.929
9.368
7.807
6.246
4.685
3.124
1.563
0.002
W/kg
5.465
4.782
4.099
3.416
2.733
2.050
1.367
0.684
0.002

System Performance Check Data (5400MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2023-05-24

Experimental conditions.

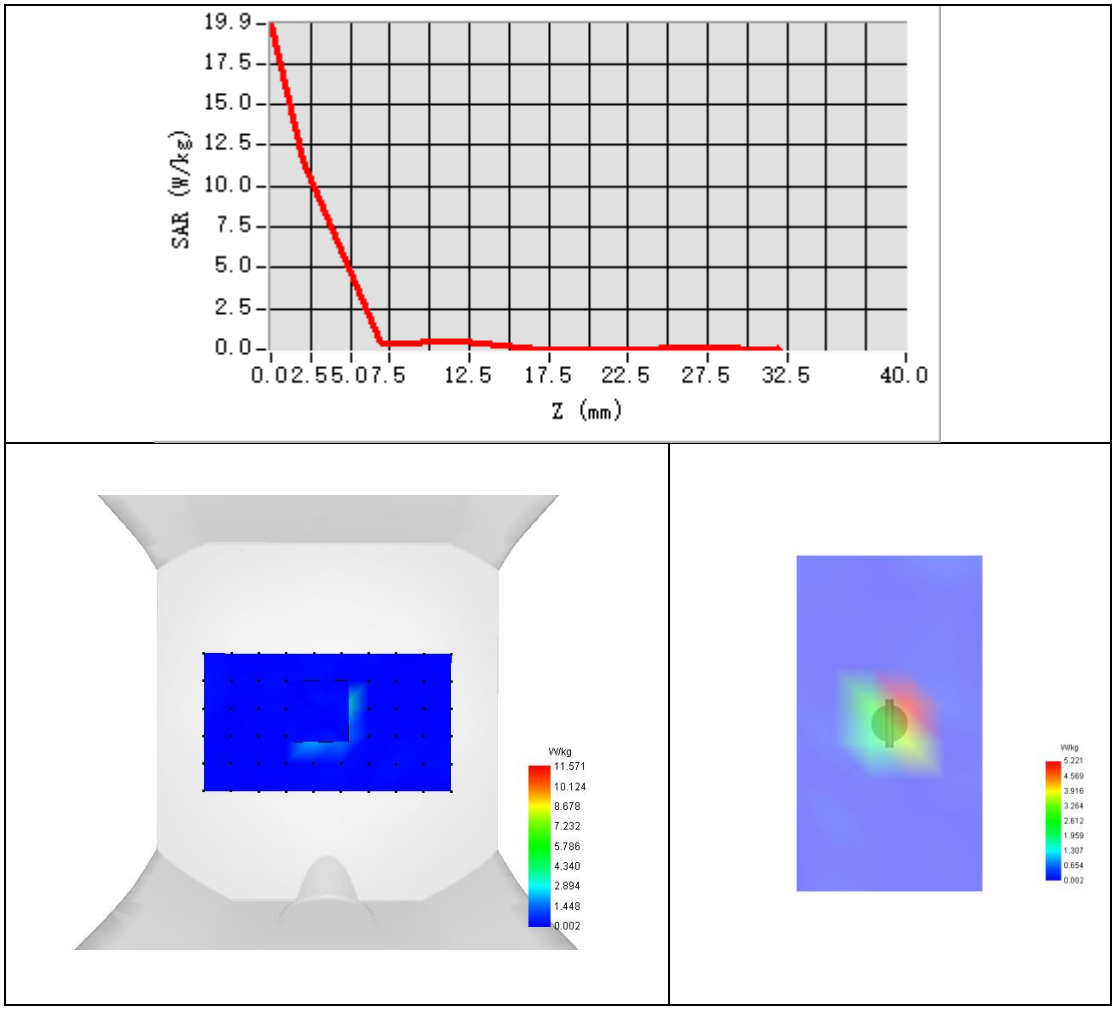
Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW
Frequency (MHz)	5400.000
Relative permittivity	36.08
Conductivity (S/m)	4.89
Probe	SN 04/22 EPGO364
ConvF	1.85
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=6.00, Y=5.00 ; SAR Peak: 25.22 W/kg

SAR 10g (W/Kg)	2.213
SAR 1g (W/Kg)	8.750

Z Axis Scan

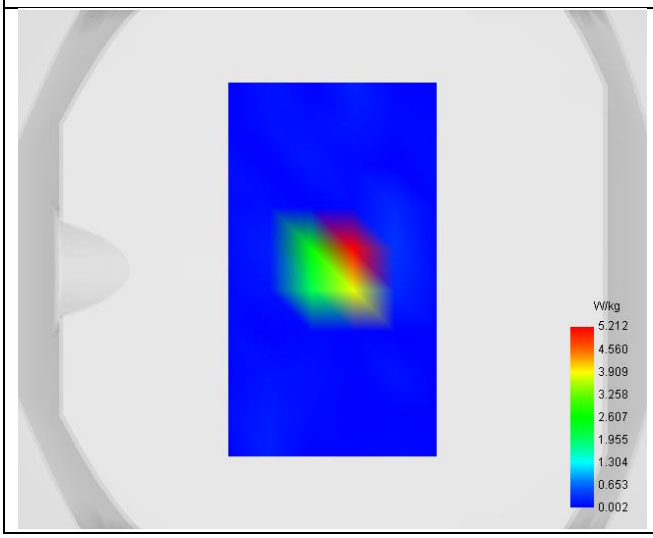
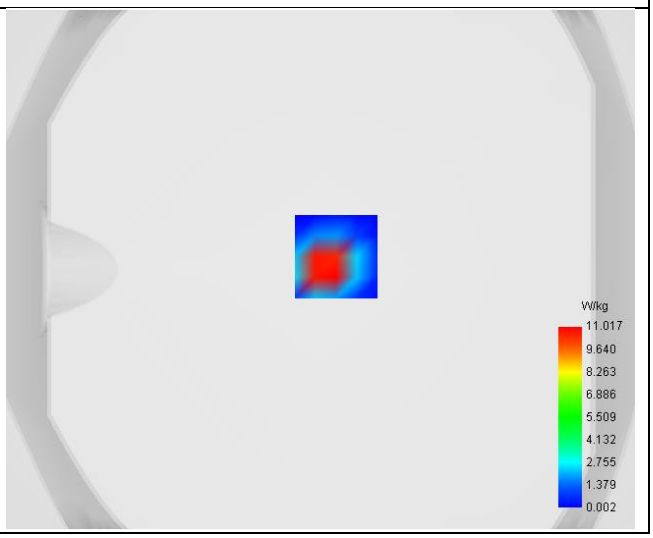

19.9
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)
W/kg
11.571
10.124
8.678
7.232
5.786
4.340
2.894
1.448
0.002
W/kg
5.221
4.569
3.916
3.264
2.612
1.959
1.307
0.654
0.002

System Performance Check Data (5600MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2023-05-25

Experimental conditions.

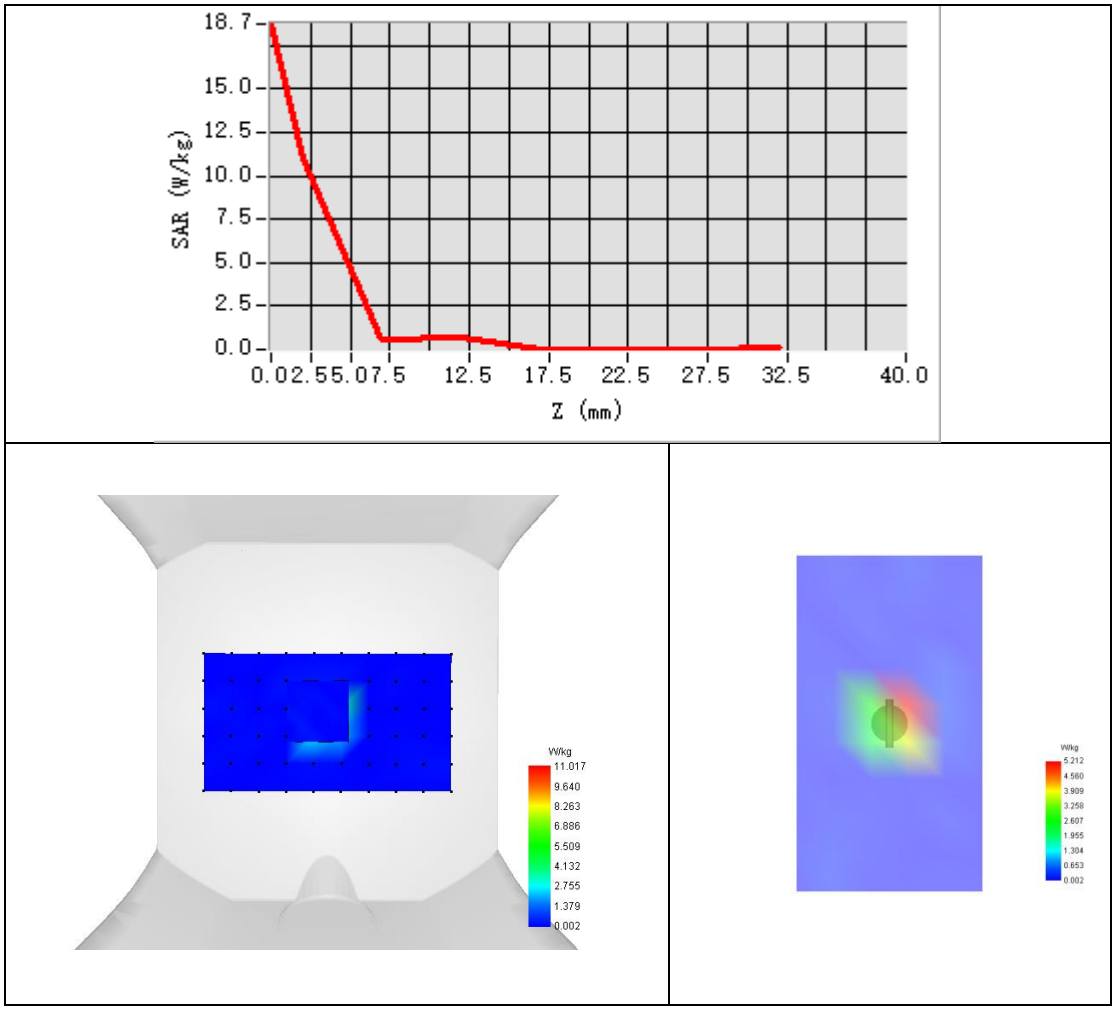
Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels	Middle
Signal	CW
Frequency (MHz)	5600.000
Relative permittivity	36.27
Conductivity (S/m)	5.09
Probe	SN 04/22 EPGO364
ConvF	1.86
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=6.00, Y=5.00 ; SAR Peak: 23.97 W/kg

SAR 10g (W/Kg)	2.164
SAR 1g (W/Kg)	8.342

Z Axis Scan

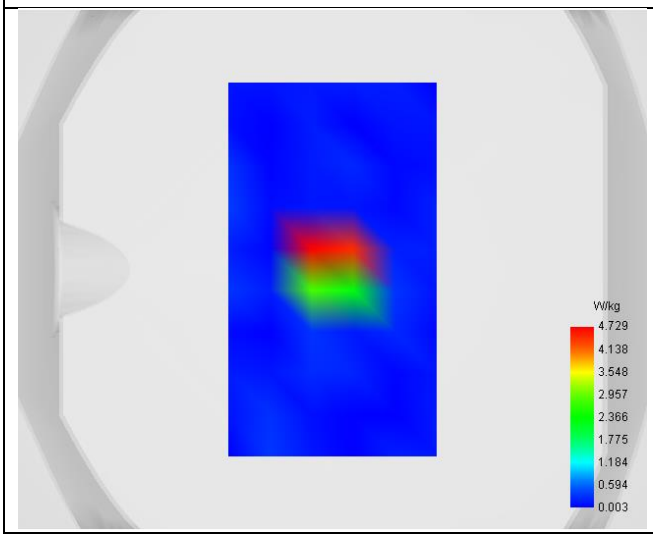
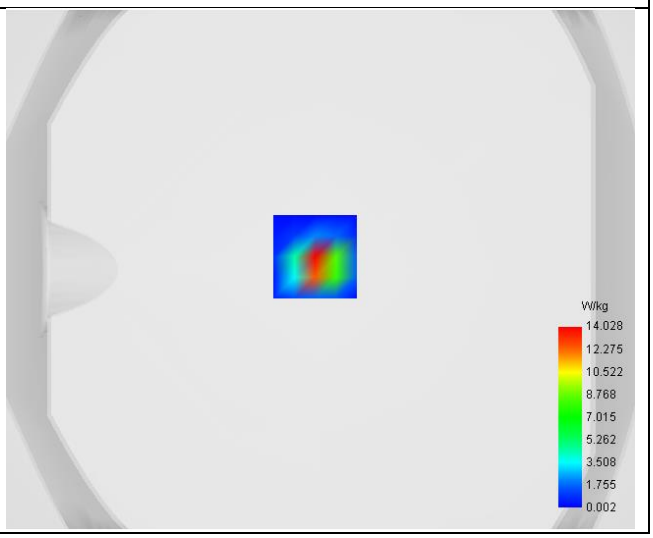

18.7
15.0
12.5
10.0
7.5
5.0
2.5
0.0
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)
W/kg
11.017
9.640
8.263
6.886
5.509
4.132
2.755
1.379
0.002
W/kg
5.212
4.560
3.909
3.258
2.607
1.955
1.304
0.653
0.002

System Performance Check Data (5800MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2023-05-25

Experimental conditions.

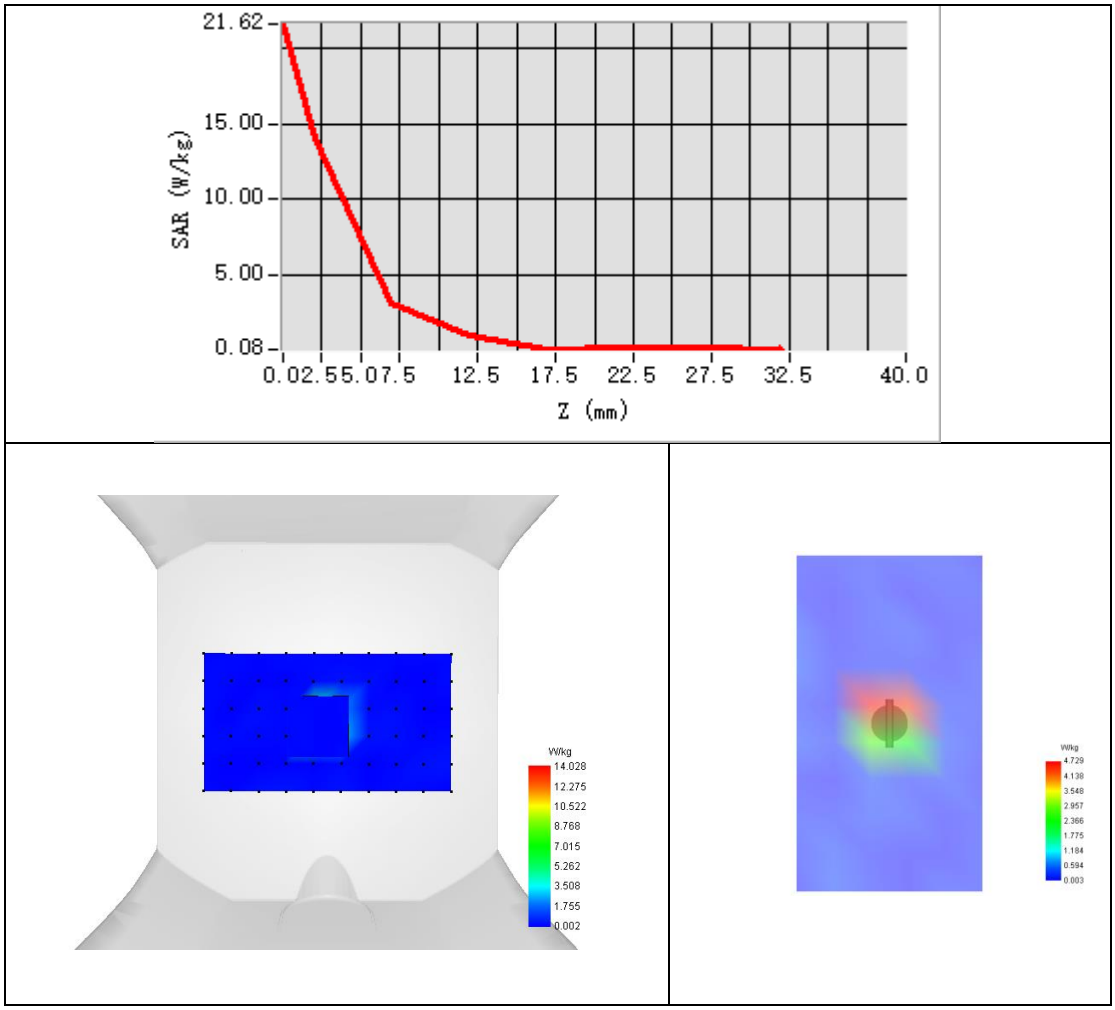
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW
Frequency (MHz)	5800.000
Relative permittivity	35.89
Conductivity (S/m)	5.23
Probe	SN 04/22 EPGO364
ConvF	1.73
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=-2.00, Y=5.00 ; SAR Peak: 25.68 W/kg

SAR 10g (W/Kg)	2.135
SAR 1g (W/Kg)	8.102

Z Axis Scan

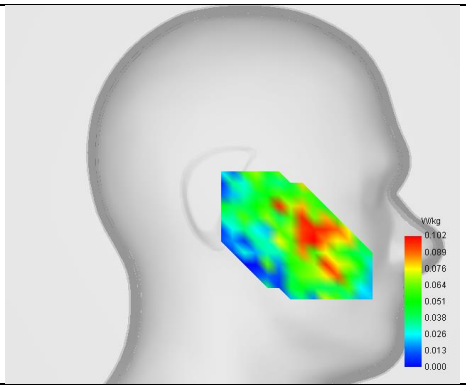
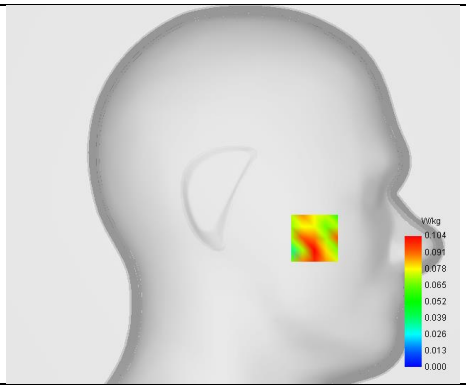
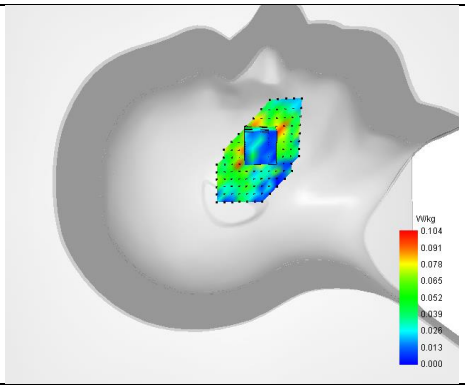
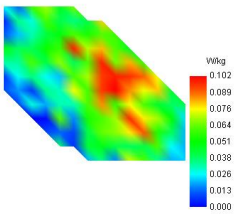
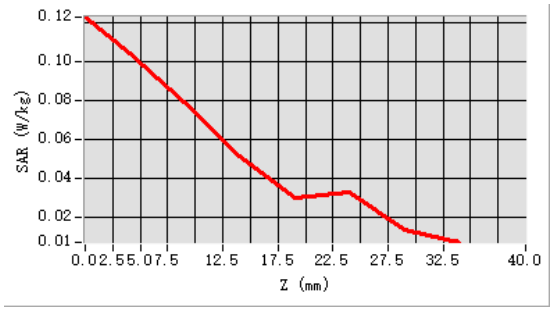

21.62
15.00
10.00
5.00
0.08
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)
W/kg
14.028
12.275
10.522
8.768
7.015
5.262
3.508
1.755
0.002
W/kg
4.729
4.138
3.548
2.957
2.366
1.775
1.184
0.594
0.003

Appendix B. SAR Test Plots

Plot 1:

Test Date	2023-05-18
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	GSM850
Signal	TDMA (GSM)
Frequency	824.2
SAR 10g (W/Kg)	0.064
SAR 1g (W/Kg)	0.102

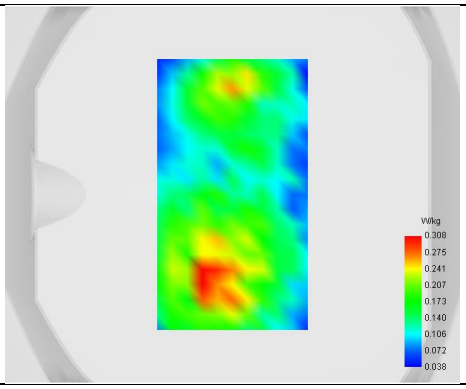
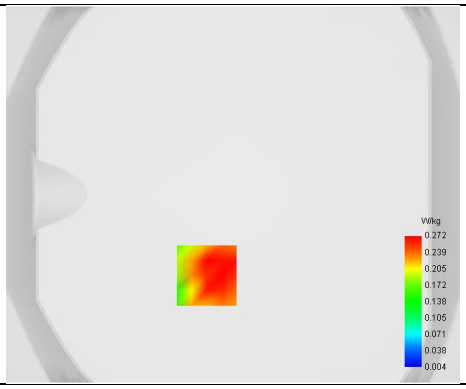
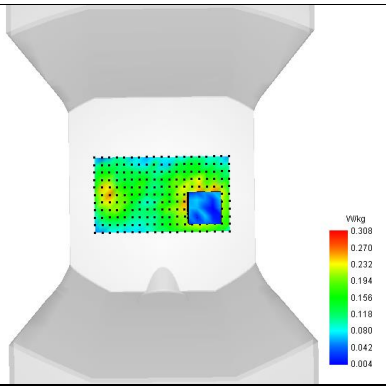
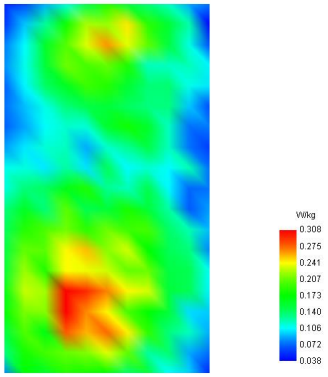
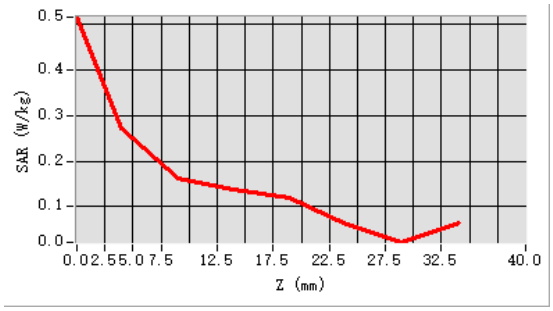
Maximum location: X=-56.00, Y=-30.00 ; SAR Peak: 0.21 W/kg

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

Plot 2:

Test Date	2023-05-18
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS850
Signal	TDMA (GPRS)
Frequency	824.2
SAR 10g (W/Kg)	0.184
SAR 1g (W/Kg)	0.280

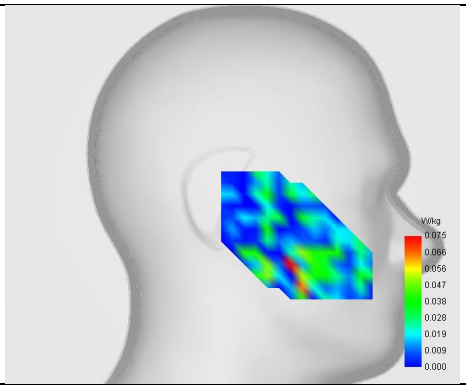
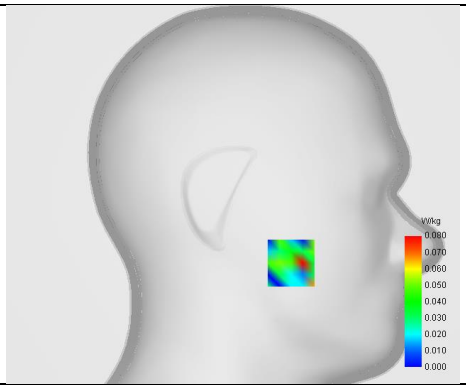
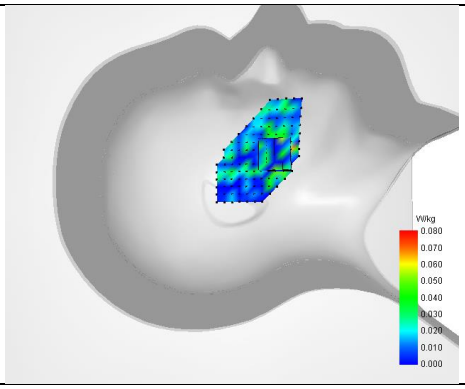
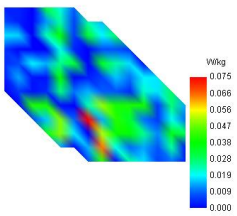
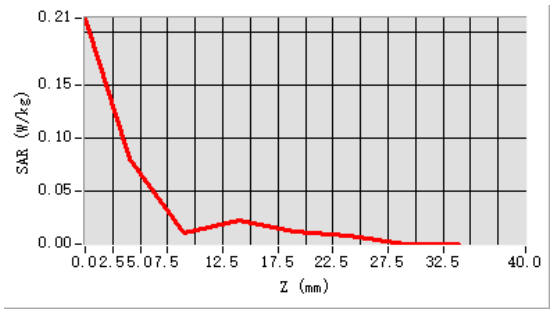
Maximum location: X=-14.00, Y=-43.00 ; SAR Peak: 0.47 W/kg

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

Plot 3:

Test Date	2023-05-19
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Signal	TDMA (GSM)
Frequency	1850.2
SAR 10g (W/Kg)	0.029
SAR 1g (W/Kg)	0.045

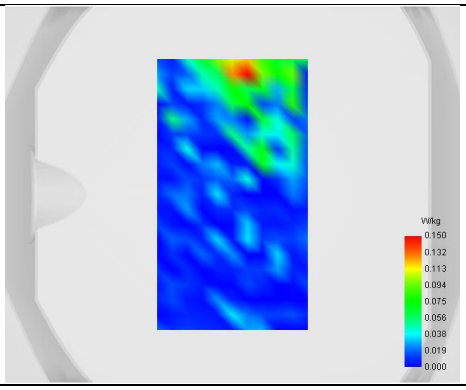
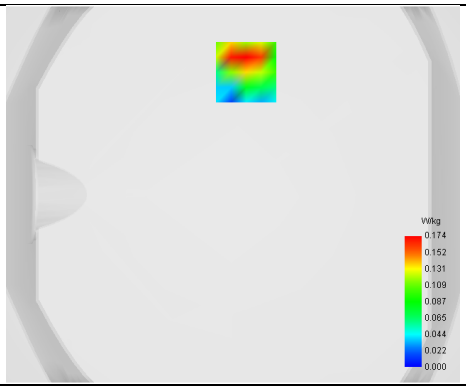
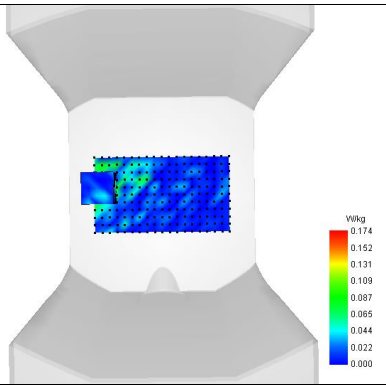
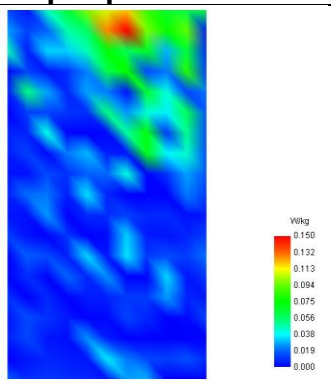
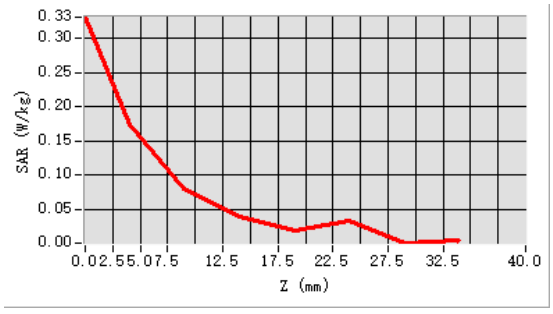
Maximum location: X=-40.00, Y=-47.00 ; SAR Peak: 0.19 W/kg

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

Plot 4:

Test Date	2023-05-19
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS1900
Signal	TDMA (GPRS)
Frequency	1850.2
SAR 10g (W/Kg)	0.083
SAR 1g (W/Kg)	0.174

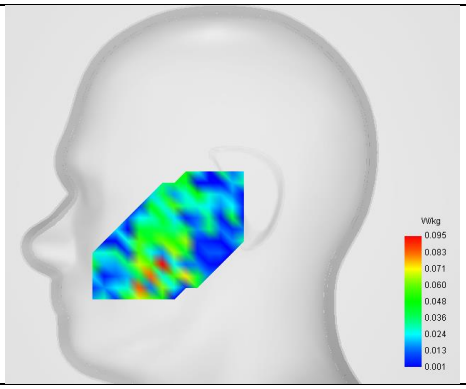
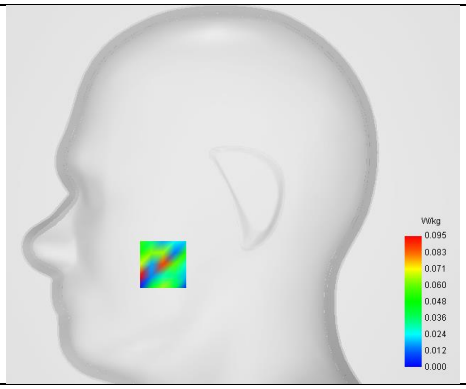
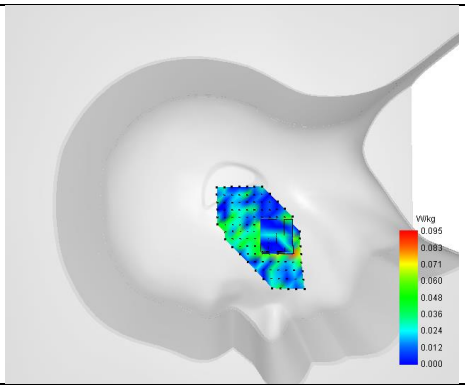
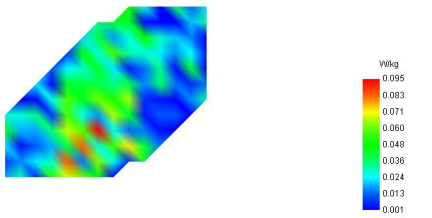
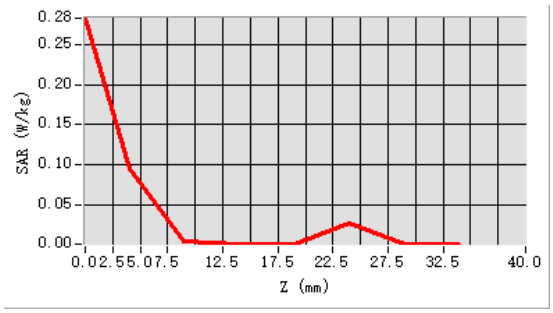
Maximum location: X=7.00, Y=65.00 ; SAR Peak: 0.37 W/kg

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

Plot 5:

Test Date	2023-05-20
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	Band 2 (1900)
Signal	WCDMA
Frequency	1907.6
SAR 10g (W/Kg)	0.034
SAR 1g (W/Kg)	0.086

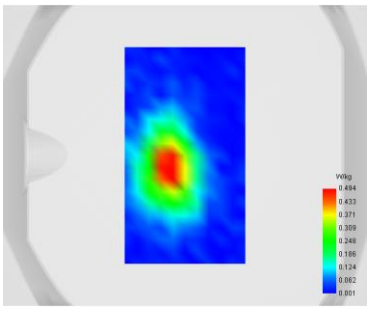
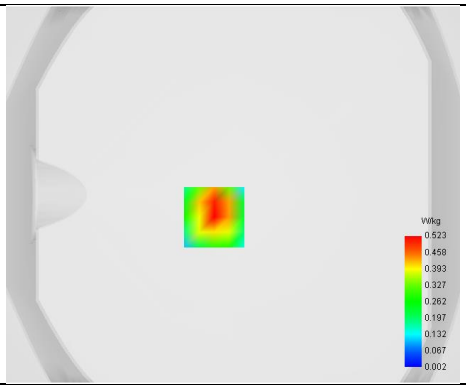
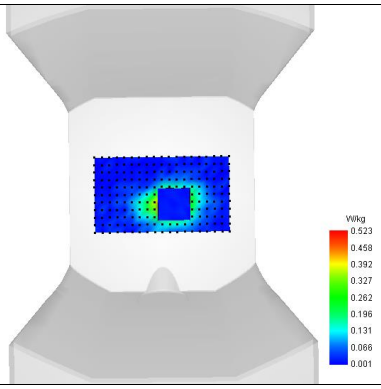
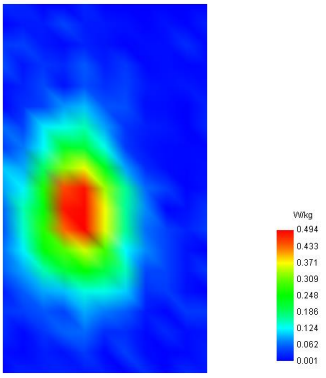
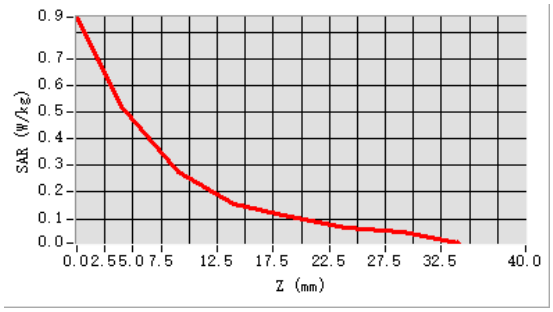
Maximum location: X=-48.00, Y=-48.00 ; SAR Peak: 0.26 W/kg

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

Plot 6:

Test Date	2023-05-20
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	Band 2 (1900)
Signal	WCDMA
Frequency	1907.6
SAR 10g (W/Kg)	0.267
SAR 1g (W/Kg)	0.501

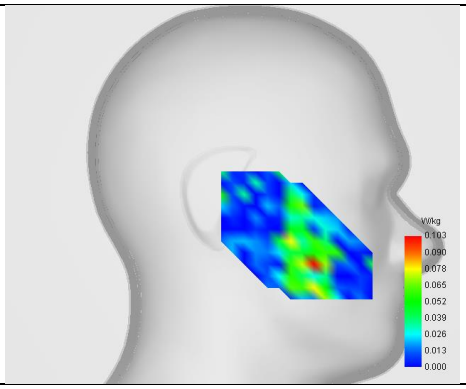
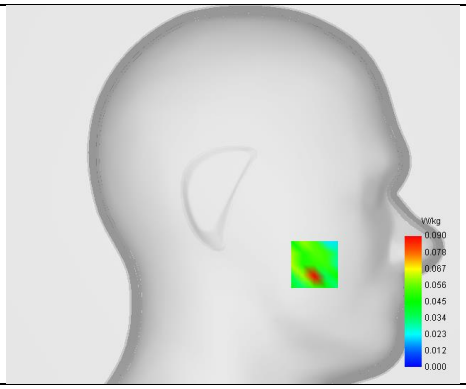
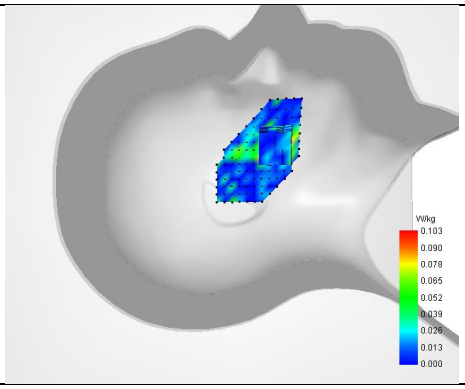
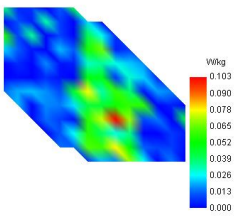
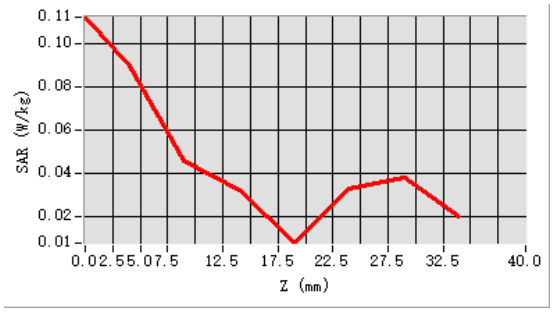
Maximum location: X=-10.00, Y=-12.00 ; SAR Peak: 0.87 W/kg

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

Plot 7:

Test Date	2023-05-19
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band 4 (1700)
Signal	WCDMA
Frequency	1752.4
SAR 10g (W/Kg)	0.039
SAR 1g (W/Kg)	0.075

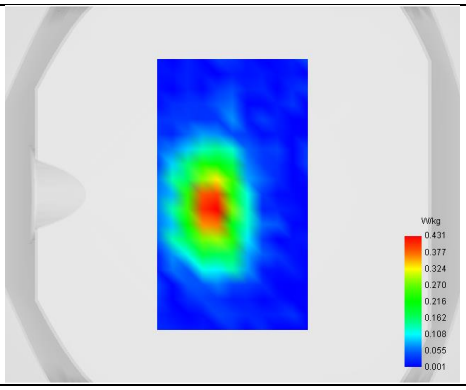
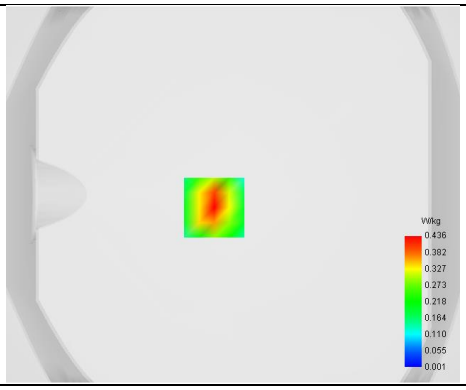
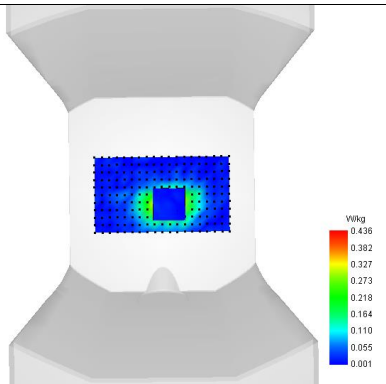
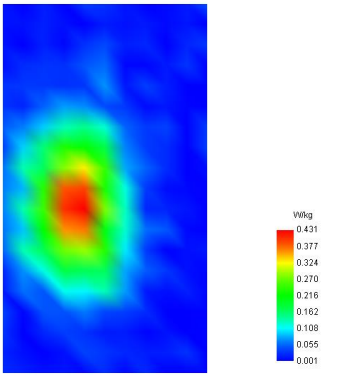
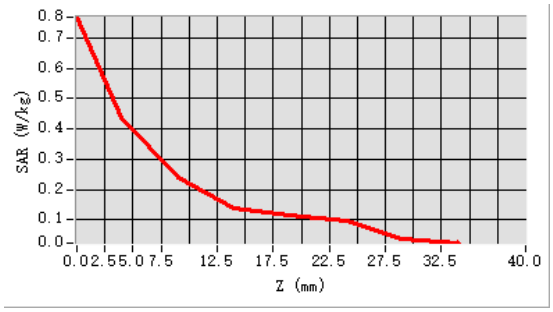
Maximum location: X=-56.00, Y=-48.00 ; SAR Peak: 0.19 W/kg

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

Plot 8:

Test Date	2023-05-19
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	Band 4 (1700)
Signal	WCDMA
Frequency	1752.4
SAR 10g (W/Kg)	0.218
SAR 1g (W/Kg)	0.414

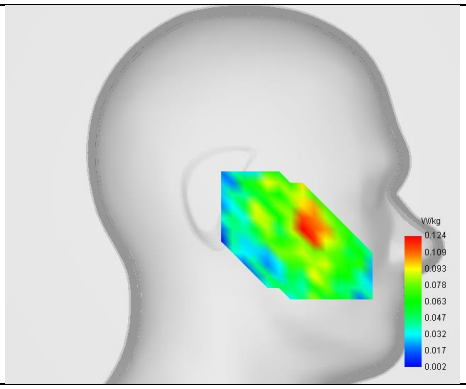
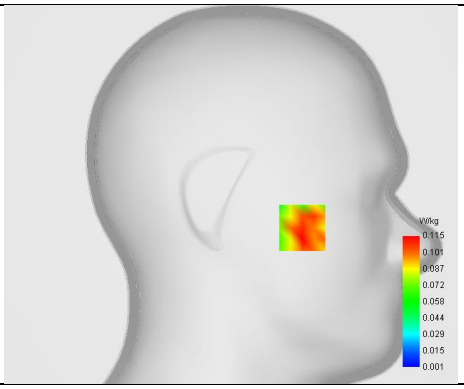
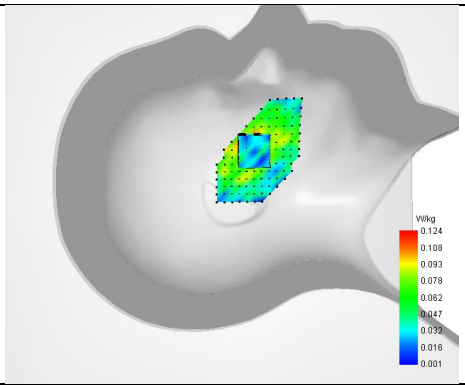
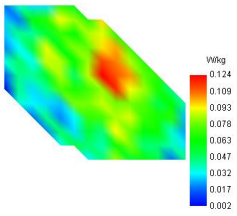
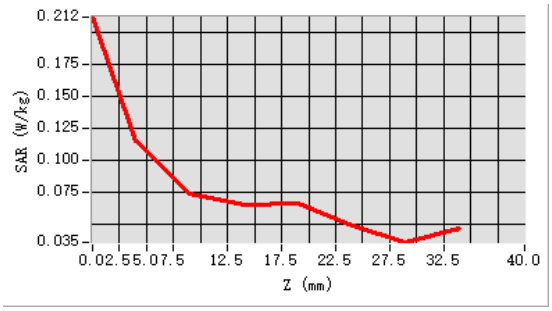
Maximum location: X=-10.00, Y=-7.00 ; SAR Peak: 0.75 W/kg

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

Plot 9:

Test Date	2023-05-22
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band 5 (850)
Signal	WCDMA
Frequency	846.6
SAR 10g (W/Kg)	0.078
SAR 1g (W/Kg)	0.119

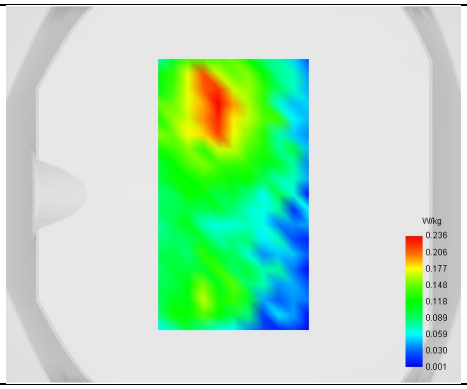
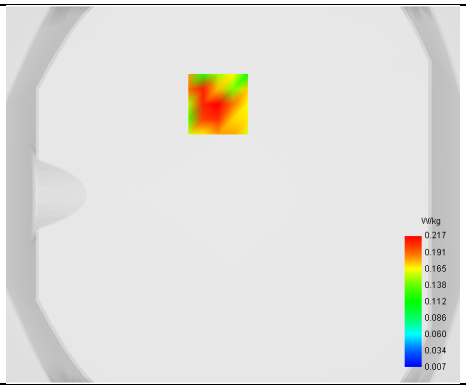
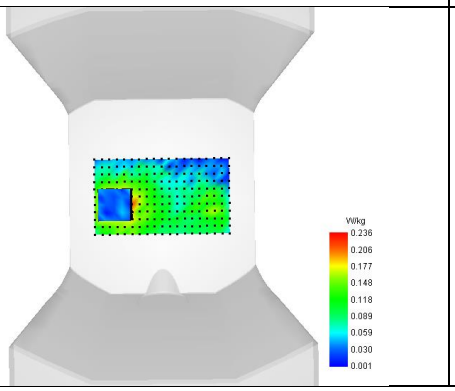
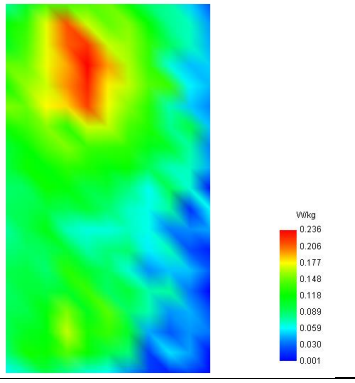
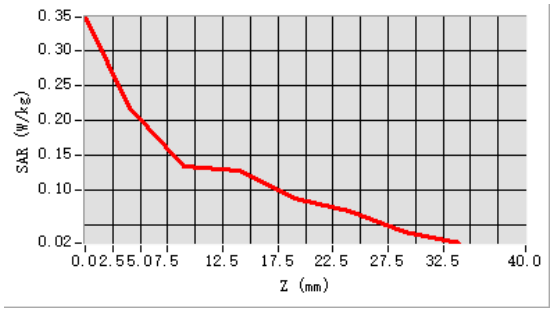
Maximum location: X=-49.00, Y=-23.00 ; SAR Peak: 0.21 W/kg

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

Plot 10:

Test Date	2023-05-22
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 5 (850)
Signal	WCDMA
Frequency	846.6
SAR 10g (W/Kg)	0.137
SAR 1g (W/Kg)	0.214

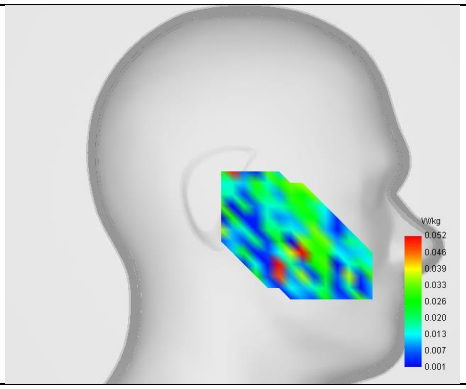
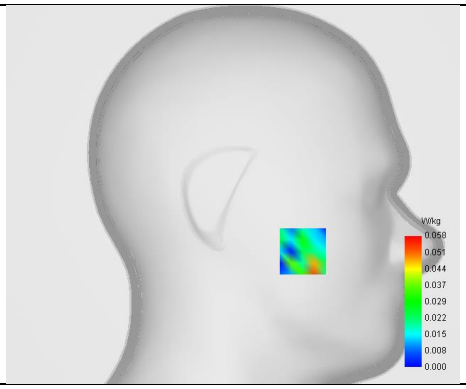
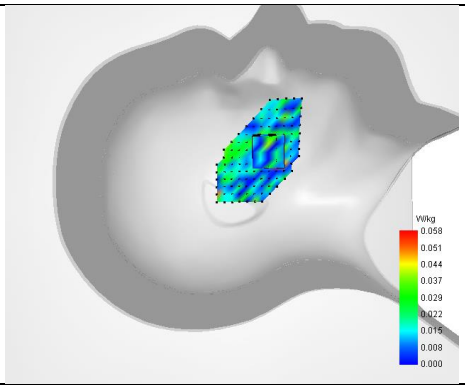
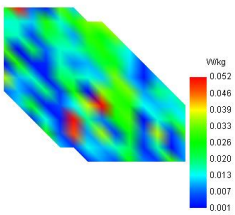
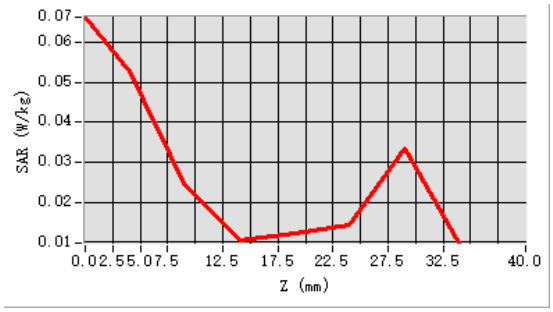
Maximum location: X=-8.00, Y=48.00 ; SAR Peak: 0.34 W/kg

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

Plot 11:

Test Date	2023-05-18
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	BC0 (US Cellular)
Signal	CDMA (CDMA2000)
Frequency	836.52
SAR 10g (W/Kg)	0.024
SAR 1g (W/Kg)	0.049

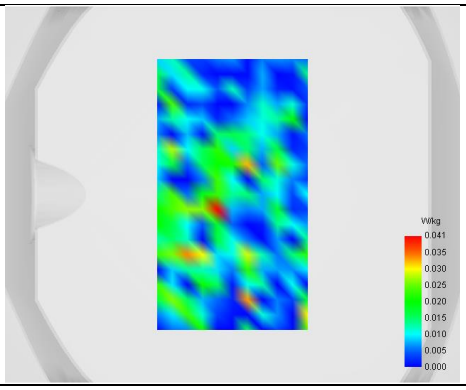
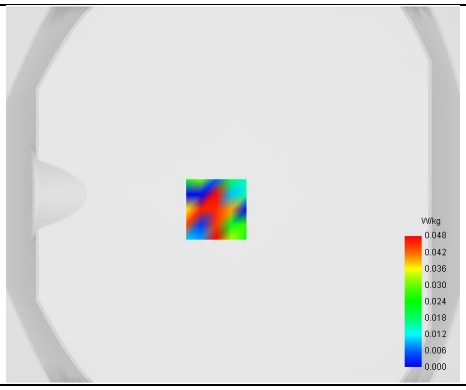
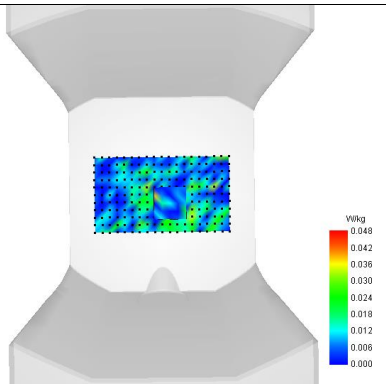
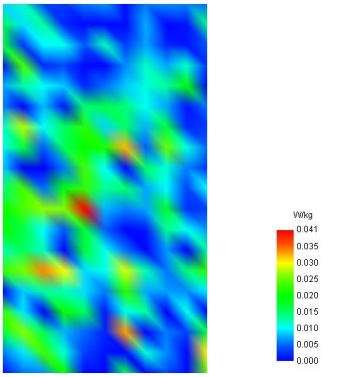
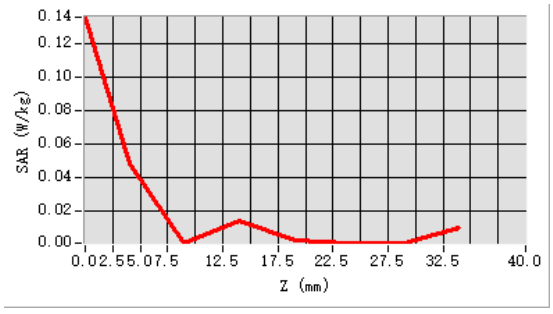
Maximum location: X=-48.00, Y=-39.00 ; SAR Peak: 0.14 W/kg

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

Plot 12:

Test Date	2023-05-18
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	BC0 (US Cellular)
Signal	CDMA (CDMA2000)
Frequency	836.52
SAR 10g (W/Kg)	0.021
SAR 1g (W/Kg)	0.048

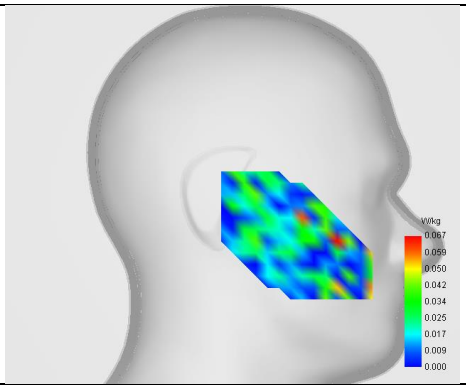
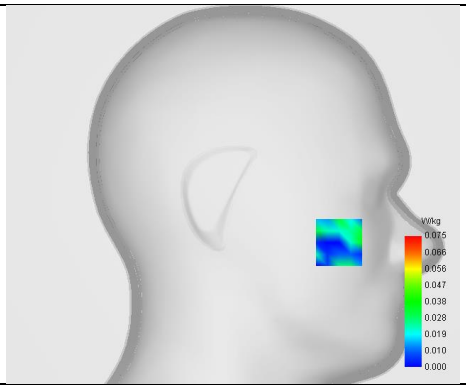
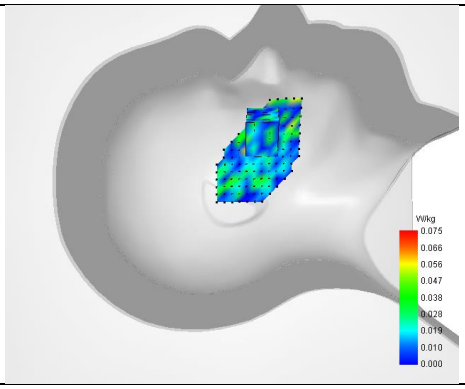
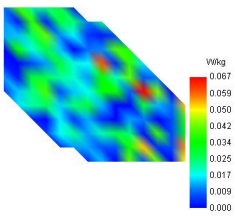
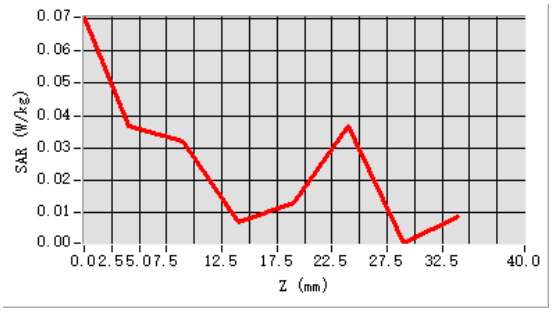
Maximum location: X=-9.00, Y=-8.00 ; SAR Peak: 0.12 W/kg

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

Plot 13:

Test Date	2023-05-20
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	BC1 (North American PCS)
Signal	CDMA (CDMA2000)
Frequency	1908.75
SAR 10g (W/Kg)	0.023
SAR 1g (W/Kg)	0.044

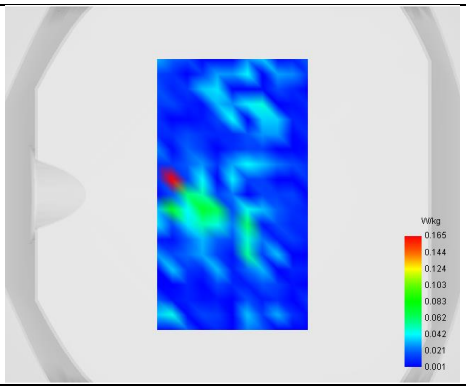
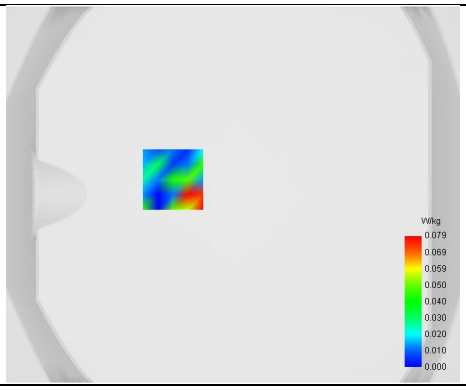
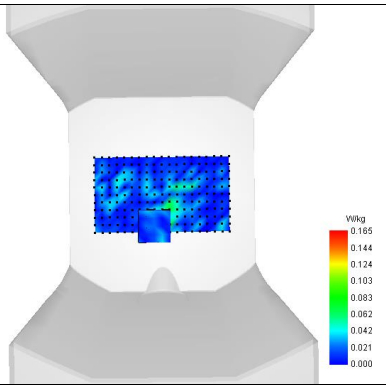
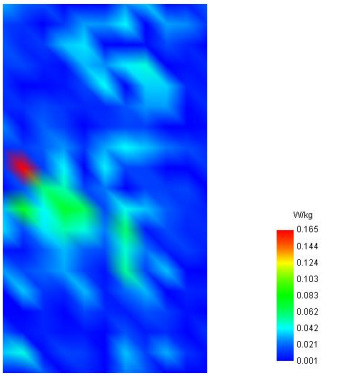
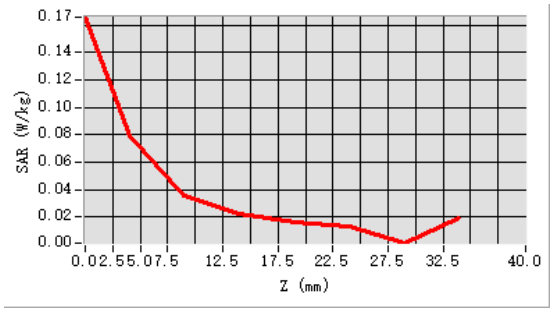
Maximum location: X=-18.00, Y=-23.00 ; SAR Peak: 0.10 W/kg

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

Plot 14:

Test Date	2023-05-20
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	BC1 (North American PCS)
Signal	CDMA (CDMA2000)
Frequency	1908.75
SAR 10g (W/Kg)	0.030
SAR 1g (W/Kg)	0.078

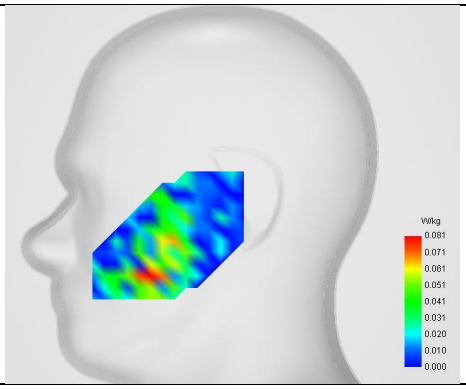
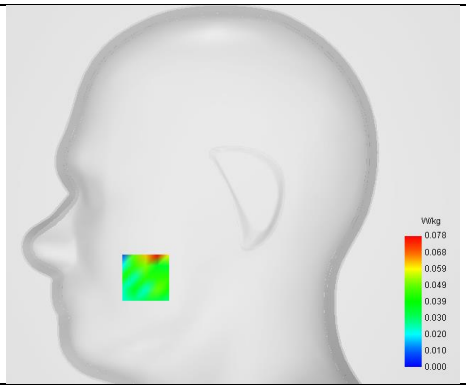
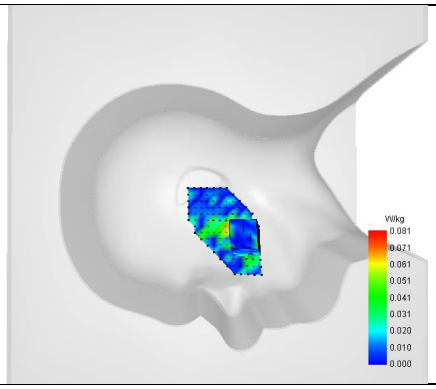
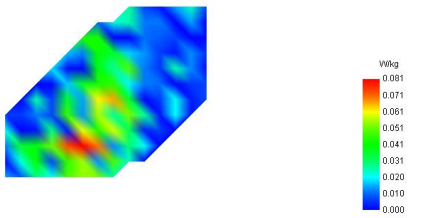
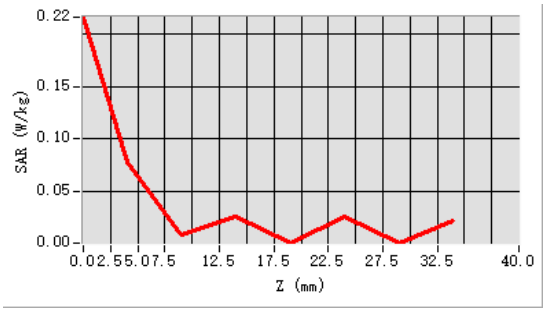
Maximum location: X=-32.00, Y=8.00 ; SAR Peak: 0.18 W/kg

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

Plot 15:

Test Date	2023-05-20
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 2
Signal	LTE FDD
Frequency	1860
SAR 10g (W/Kg)	0.031
SAR 1g (W/Kg)	0.060

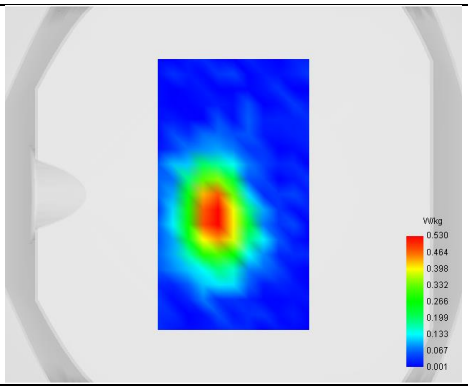
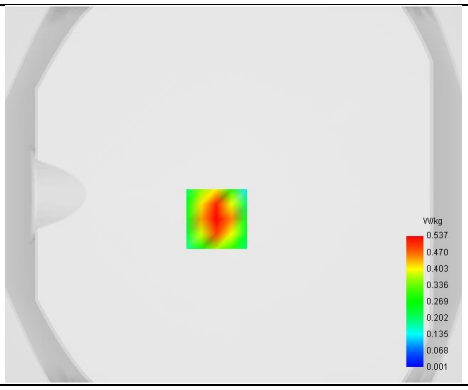
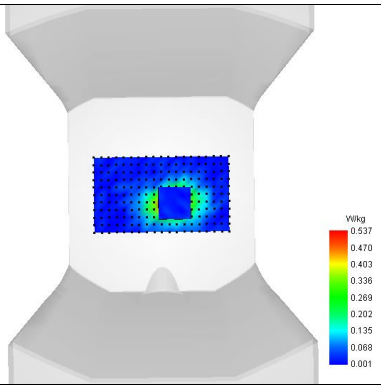
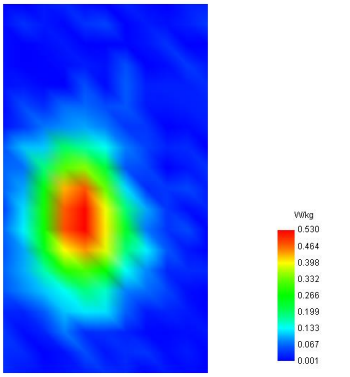
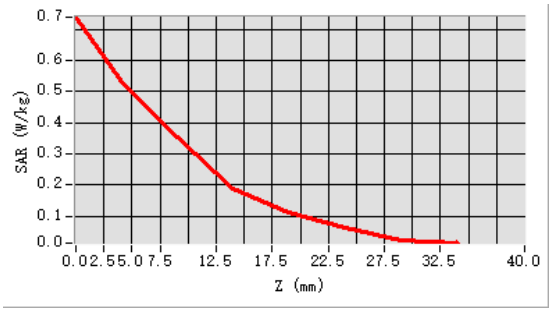
Maximum location: X=-60.00, Y=-57.00 ; SAR Peak: 0.13 W/kg

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

Plot 16:

Test Date	2023-05-20
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 2
Signal	LTE FDD
Frequency	1860
SAR 10g (W/Kg)	0.272
SAR 1g (W/Kg)	0.535

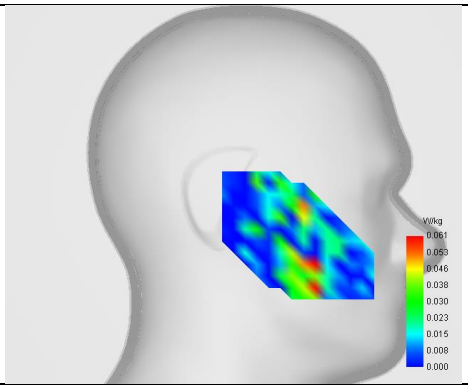
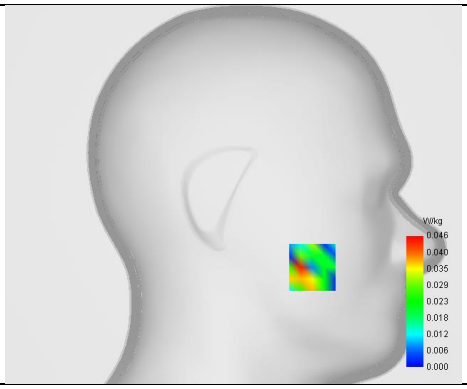
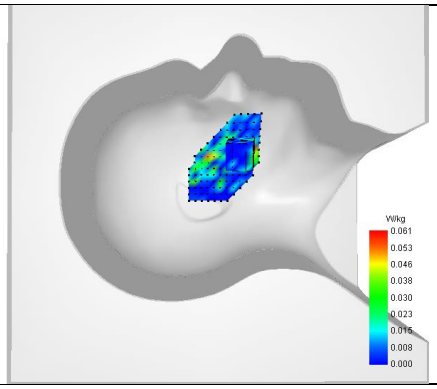
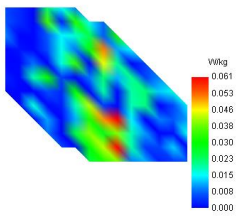
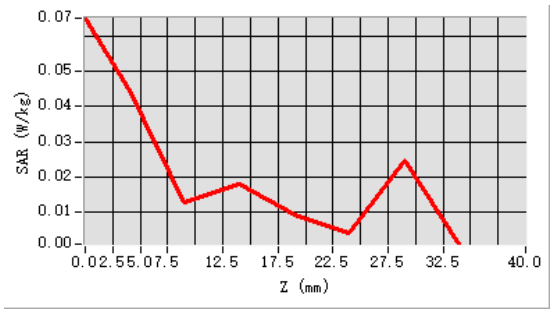
Maximum location: X=-9.00, Y=-13.00 ; SAR Peak: 0.85 W/kg

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

Plot 17:

Test Date	2023-05-19
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 4
Signal	LTE FDD
Frequency	1745
SAR 10g (W/Kg)	0.021
SAR 1g (W/Kg)	0.044

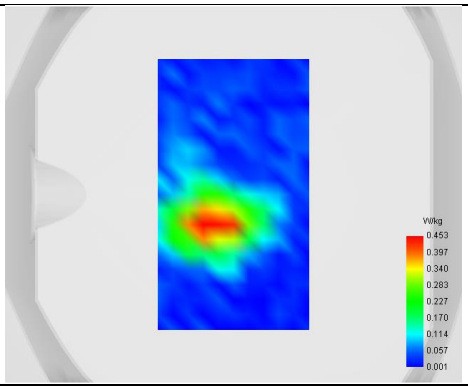
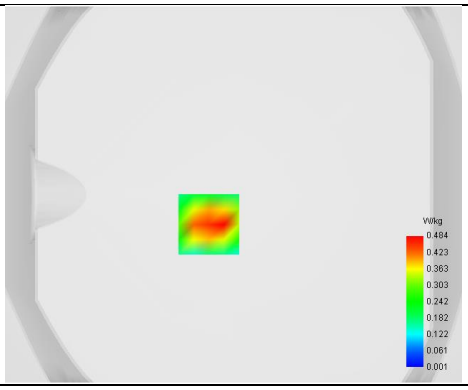
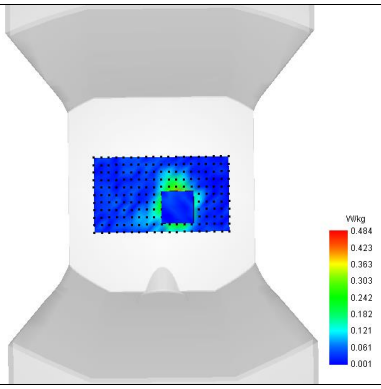
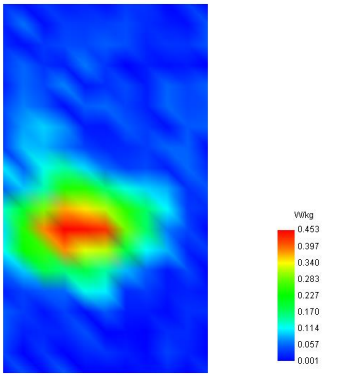
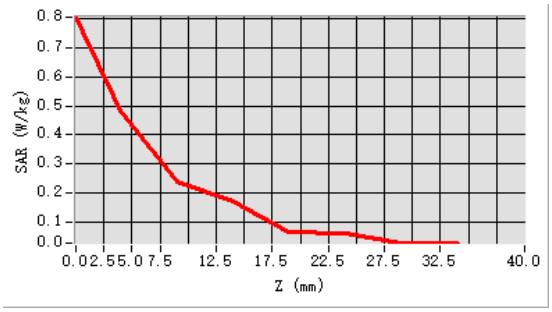
Maximum location: X=-54.00, Y=-50.00 ; SAR Peak: 0.10 W/kg

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

Plot 18:

Test Date	2023-05-19
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 4
Signal	LTE FDD
Frequency	1745
SAR 10g (W/Kg)	0.247
SAR 1g (W/Kg)	0.447

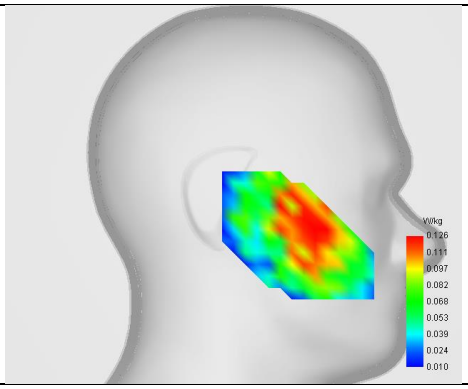
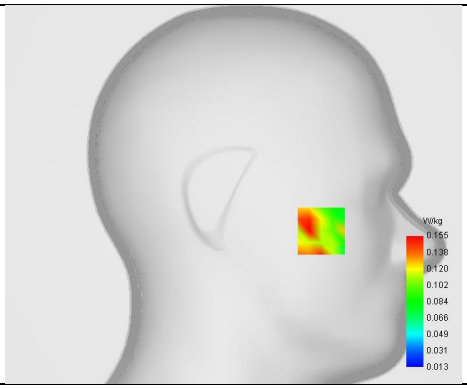
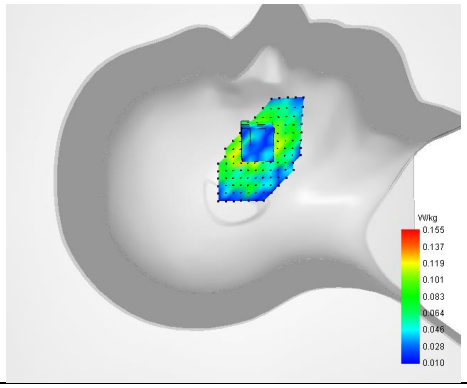
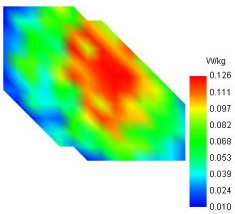
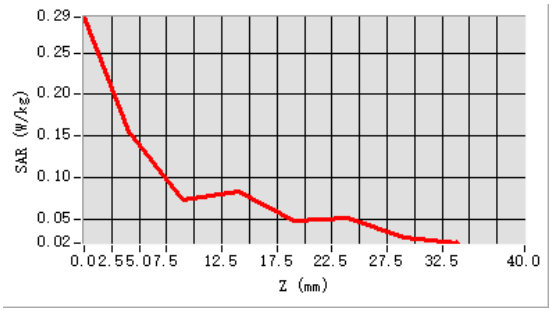
Maximum location: X=-13.00, Y=-16.00 ; SAR Peak: 0.74 W/kg

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

Plot 19:

Test Date	2023-05-18
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 5
Signal	LTE FDD
Frequency	829
SAR 10g (W/Kg)	0.097
SAR 1g (W/Kg)	0.135

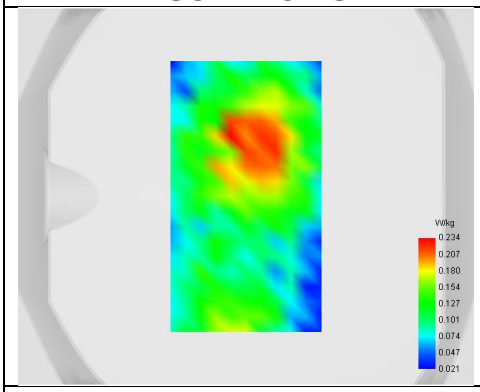
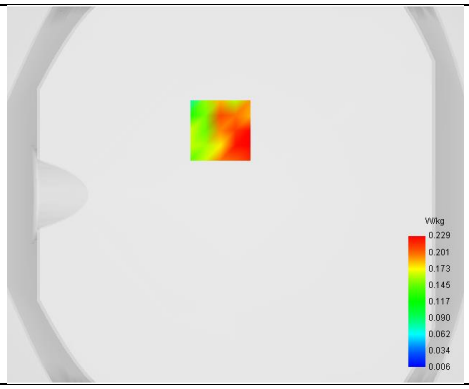
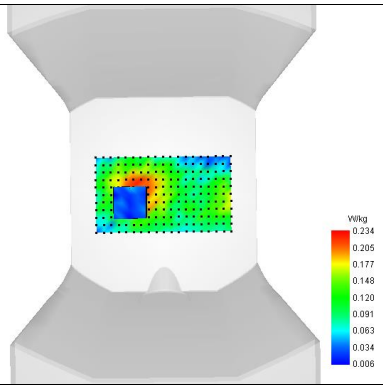
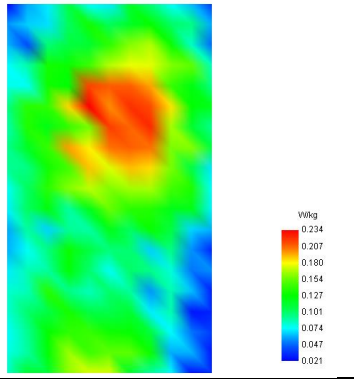
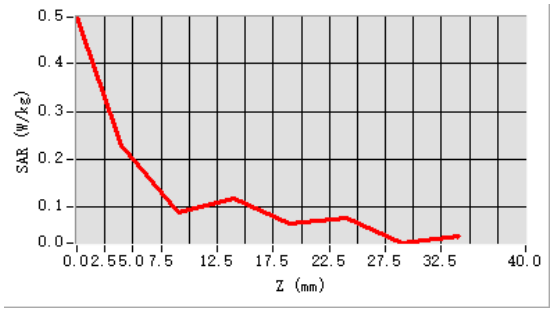
Maximum location: X=-60.00, Y=-25.00 ; SAR Peak: 0.25 W/kg

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

Plot 20:

Test Date	2023-05-18
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 5
Signal	LTE FDD
Frequency	829
SAR 10g (W/Kg)	0.142
SAR 1g (W/Kg)	0.217

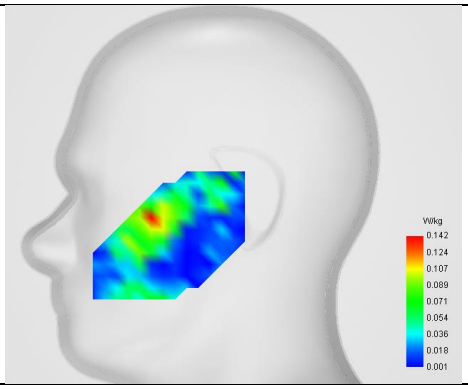
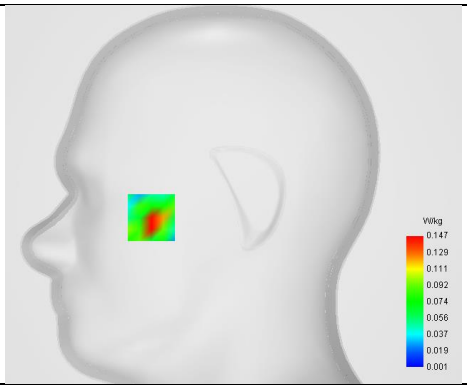
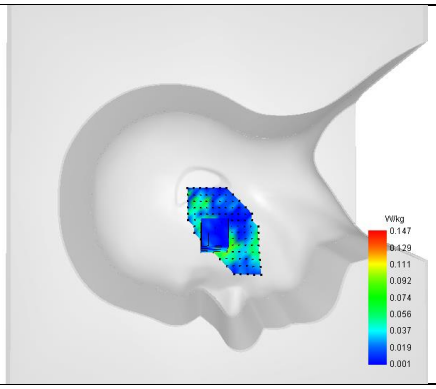
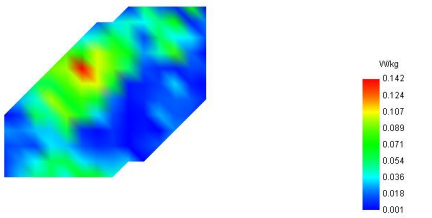
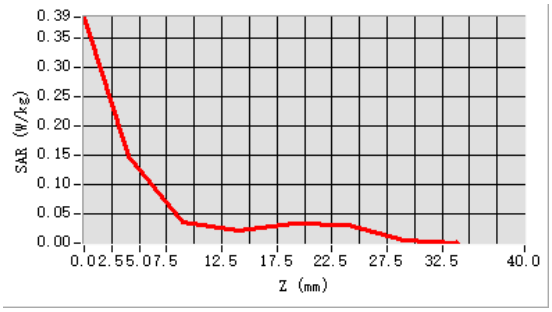
Maximum location: X=-8.00, Y=34.00 ; SAR Peak: 0.36 W/kg

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

Plot 21:

Test Date	2023-05-23
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 7
Signal	LTE FDD
Frequency	2510
SAR 10g (W/Kg)	0.069
SAR 1g (W/Kg)	0.164

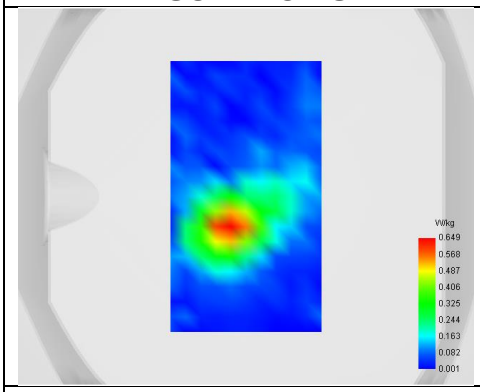
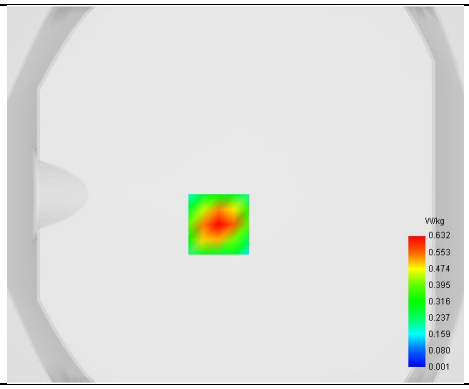
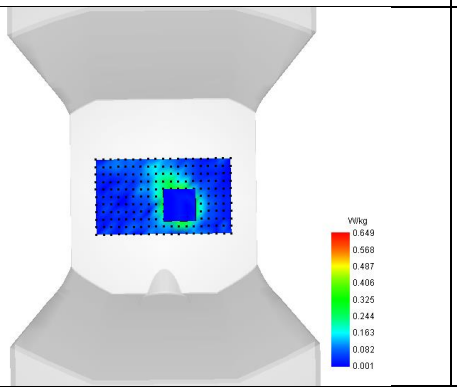
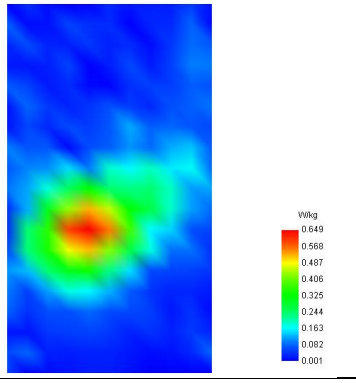
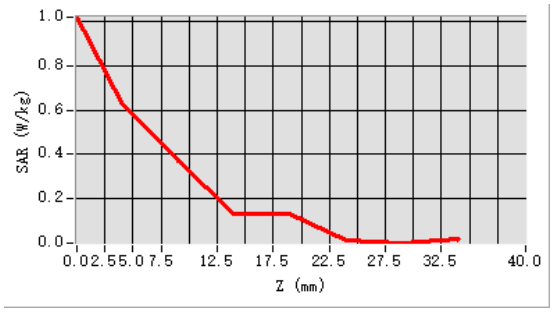
Maximum location: X=-56.00, Y=-16.00 ; SAR Peak: 0.36 W/kg

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

Plot 22:

Test Date	2023-05-23
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 7
Signal	LTE FDD
Frequency	2510
SAR 10g (W/Kg)	0.293
SAR 1g (W/Kg)	0.594

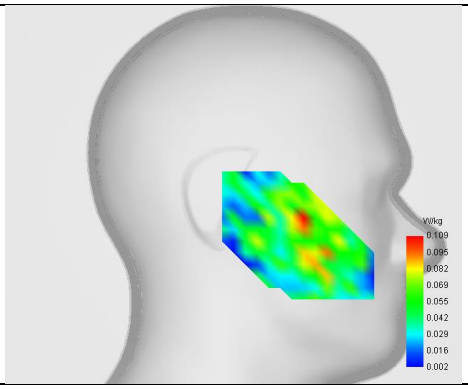
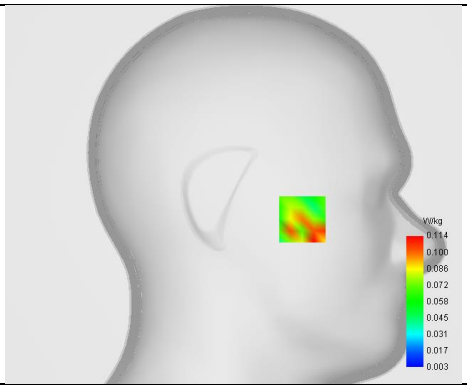
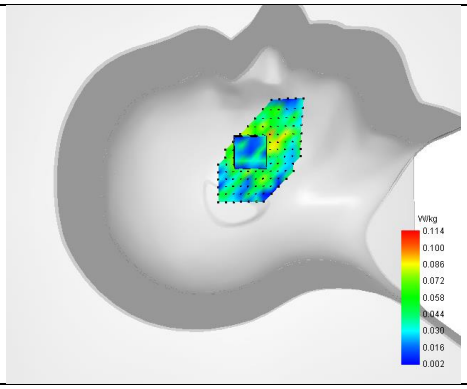
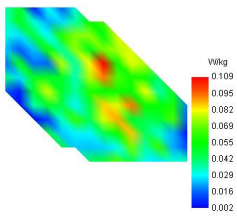
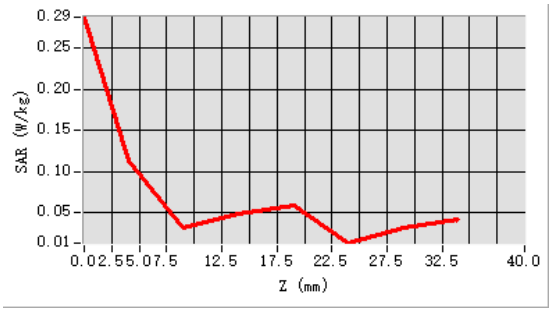
Maximum location: X=-9.00, Y=-16.00 ; SAR Peak: 1.03 W/kg

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

Plot 23:

Test Date	2023-05-17
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 12
Signal	LTE FDD
Frequency	711
SAR 10g (W/Kg)	0.066
SAR 1g (W/Kg)	0.112

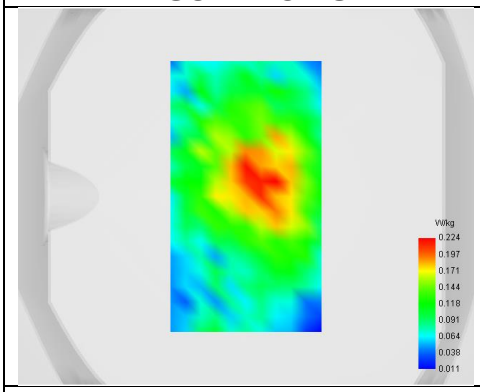
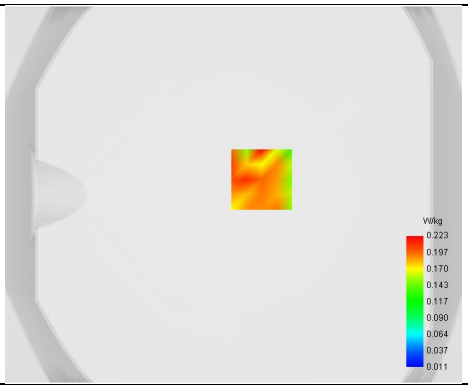
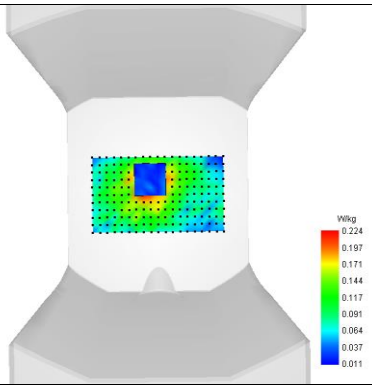
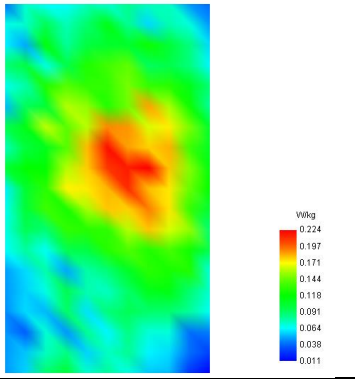
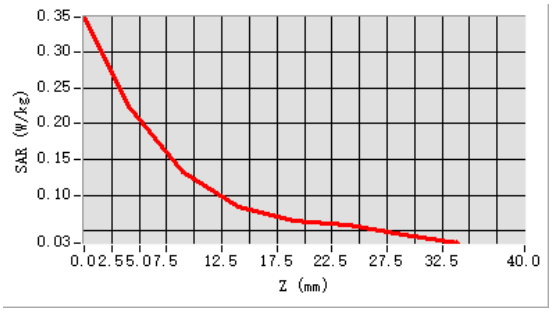
Maximum location: X=-62.00, Y=-40.00 ; SAR Peak: 0.13 W/kg

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

Plot 24:

Test Date	2023-05-17
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 12
Signal	LTE FDD
Frequency	711
SAR 10g (W/Kg)	0.147
SAR 1g (W/Kg)	0.207

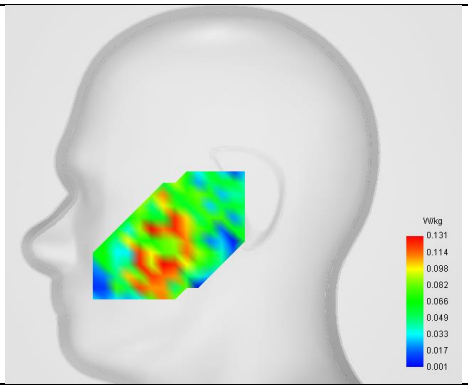
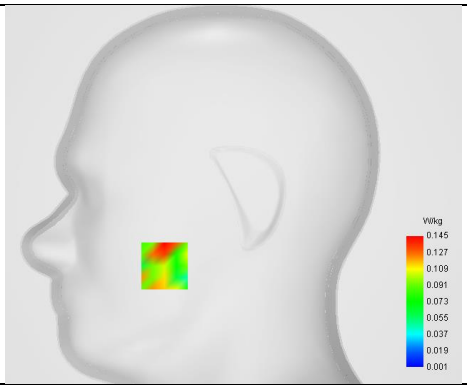
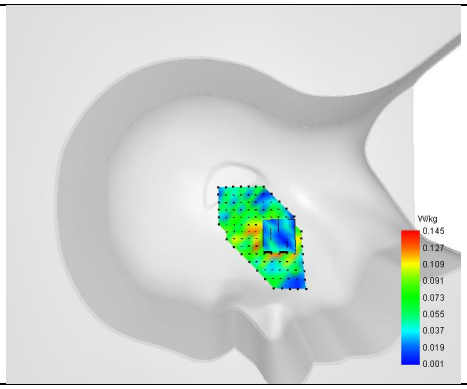
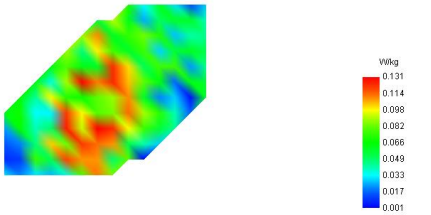
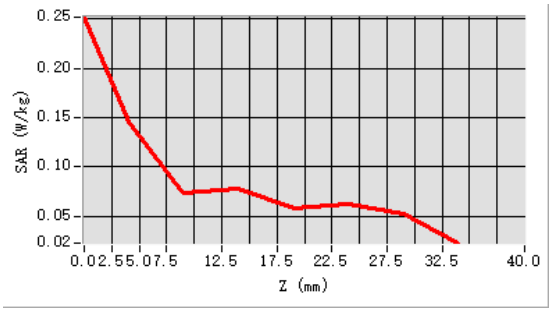
Maximum location: X=15.00, Y=8.00 ; SAR Peak: 0.31 W/kg

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

Plot 25:

Test Date	2023-05-17
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 13
Signal	LTE FDD
Frequency	782
SAR 10g (W/Kg)	0.085
SAR 1g (W/Kg)	0.142

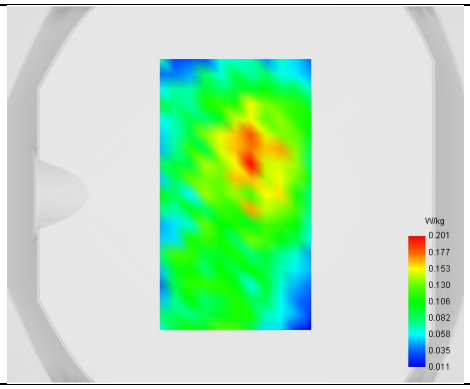
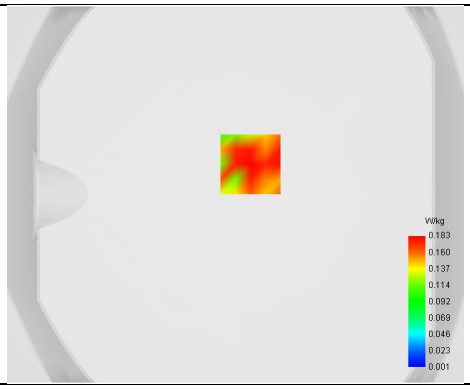
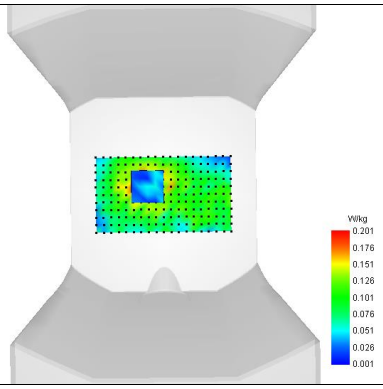
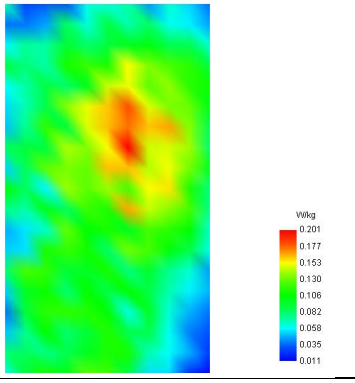
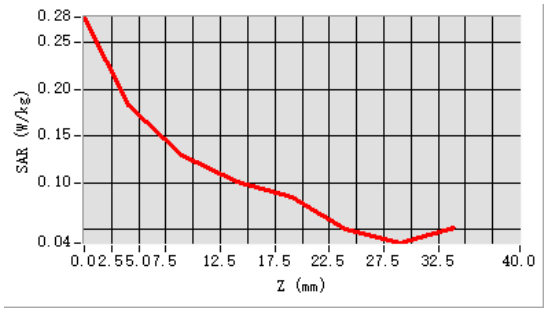
Maximum location: X=-47.00, Y=-49.00 ; SAR Peak: 0.30 W/kg

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

Plot 26:

Test Date	2023-05-17
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 13
Signal	LTE FDD
Frequency	782
SAR 10g (W/Kg)	0.123
SAR 1g (W/Kg)	0.196

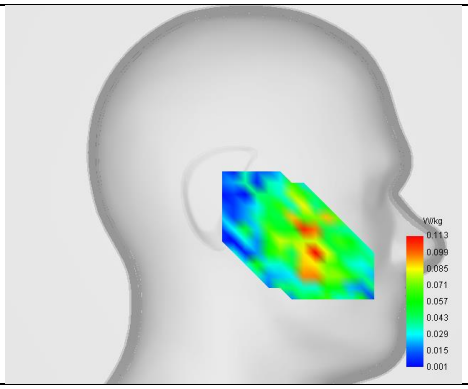
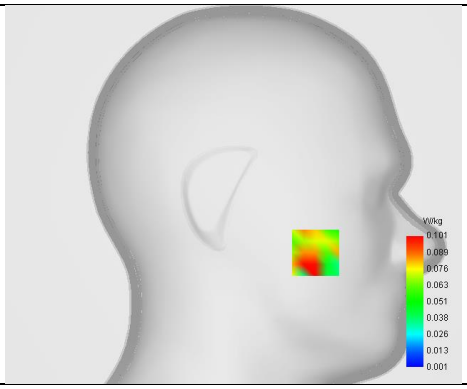
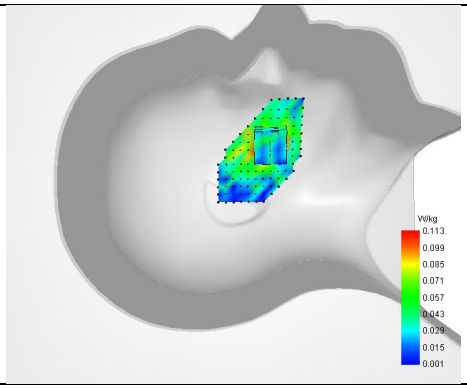
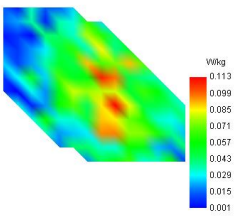
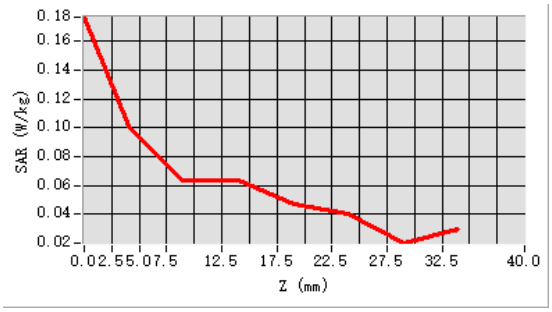
Maximum location: X=8.00, Y=16.00 ; SAR Peak: 0.30 W/kg

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

Plot 27:

Test Date	2023-05-17
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 17
Signal	LTE FDD
Frequency	710
SAR 10g (W/Kg)	0.065
SAR 1g (W/Kg)	0.128

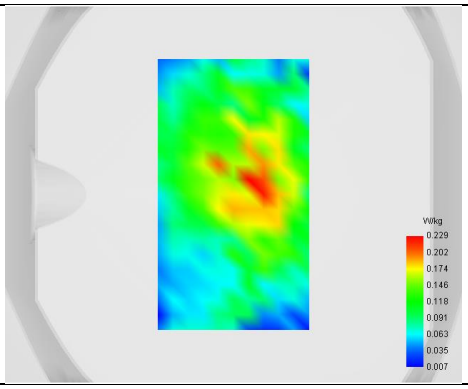
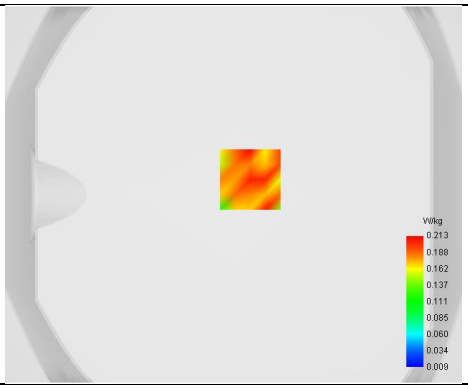
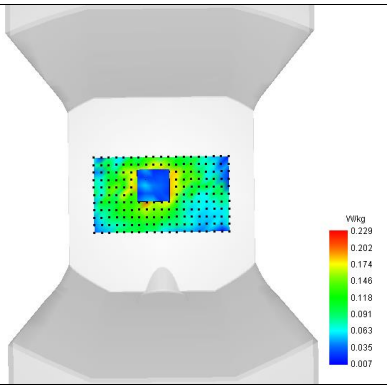
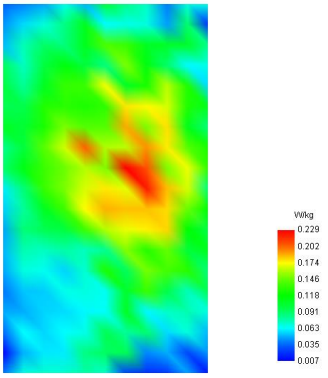
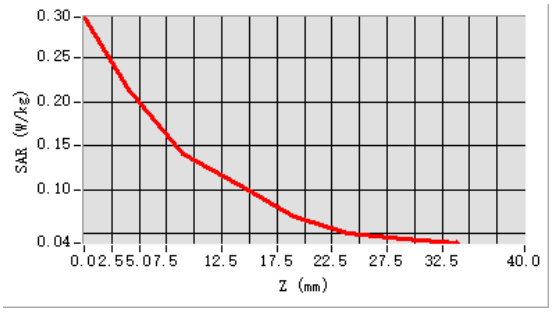
Maximum location: X=-56.00, Y=-40.00 ; SAR Peak: 0.29 W/kg

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

Plot 28:

Test Date	2023-05-17
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 17
Signal	LTE FDD
Frequency	710
SAR 10g (W/Kg)	0.078
SAR 1g (W/Kg)	0.147

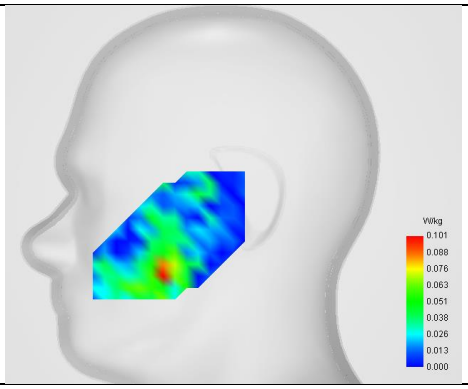
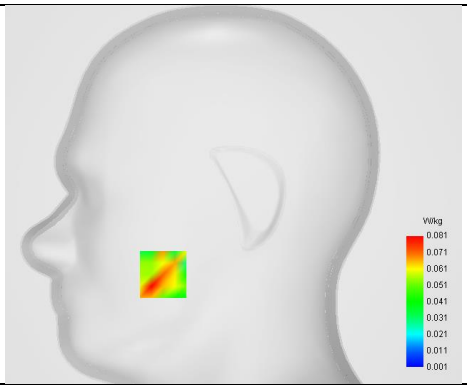
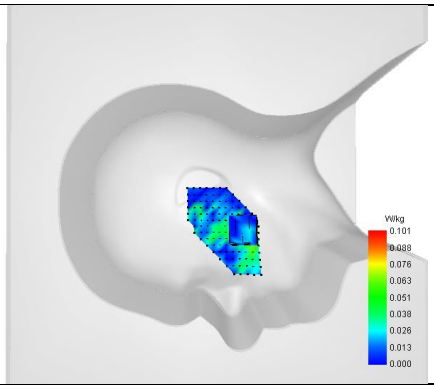
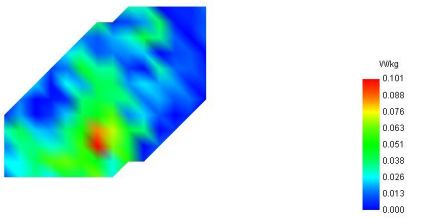
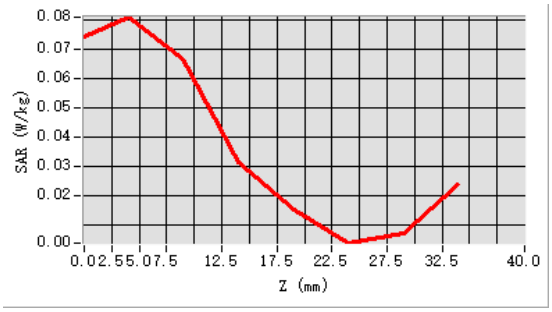
Maximum location: X=9.00, Y=8.00 ; SAR Peak: 0.39 W/kg

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

Plot 29:

Test Date	2023-05-20
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 25
Signal	LTE FDD
Frequency	1905
SAR 10g (W/Kg)	0.042
SAR 1g (W/Kg)	0.081

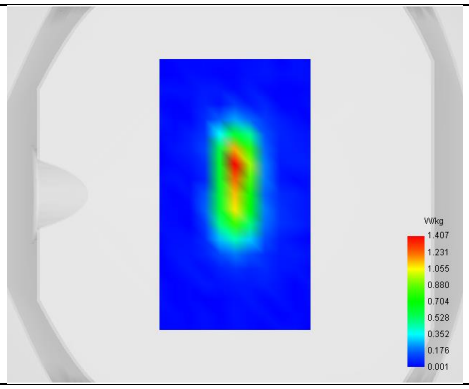
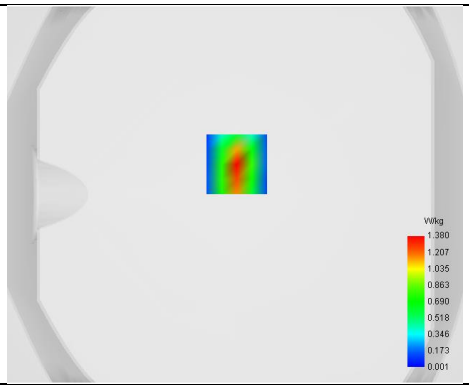
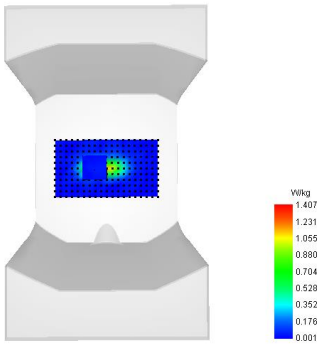
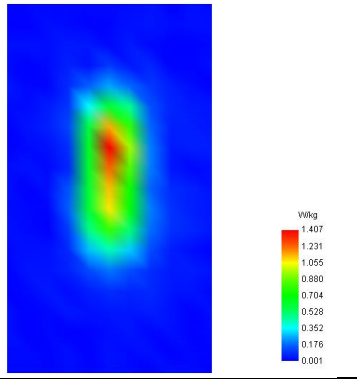
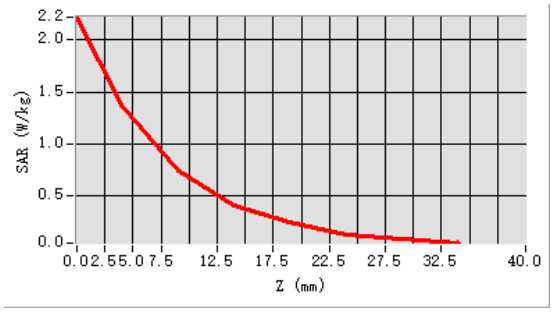
Maximum location: X=-19.00, Y=-23.00 ; SAR Peak: 0.13 W/kg

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

Plot 30:

Test Date	2023-05-20
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 25
Signal	LTE FDD
Frequency	1905
SAR 10g (W/Kg)	0.513
SAR 1g (W/Kg)	1.097

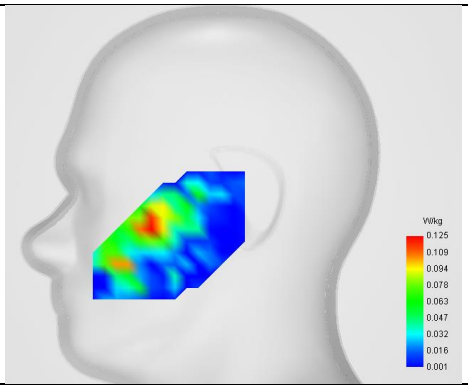
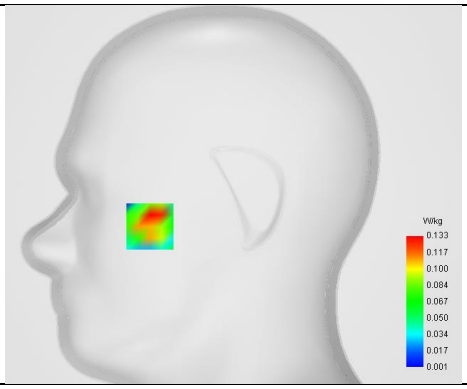
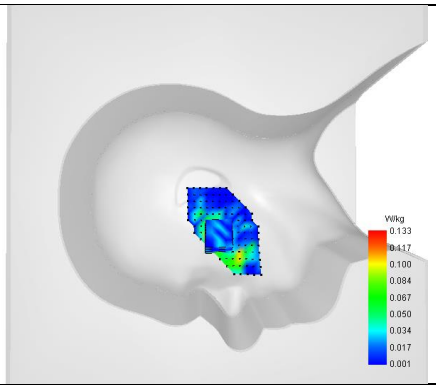
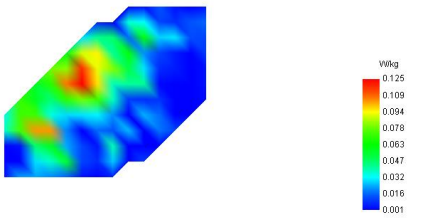
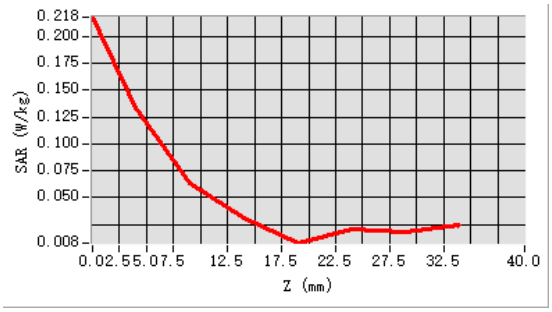
Maximum location: X=1.00, Y=16.00 ; SAR Peak: 2.21 W/kg

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

Plot 31:

Test Date	2023-05-18
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 26
Signal	LTE FDD
Frequency	831.5
SAR 10g (W/Kg)	0.062
SAR 1g (W/Kg)	0.127

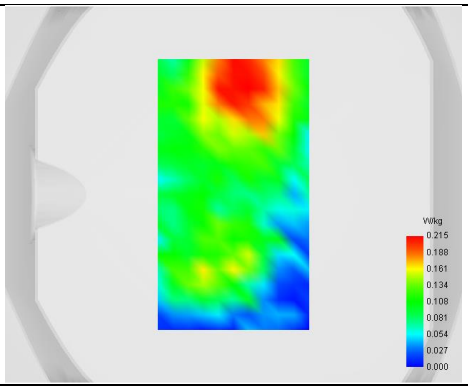
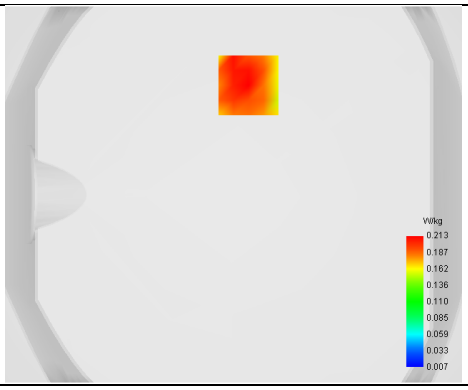
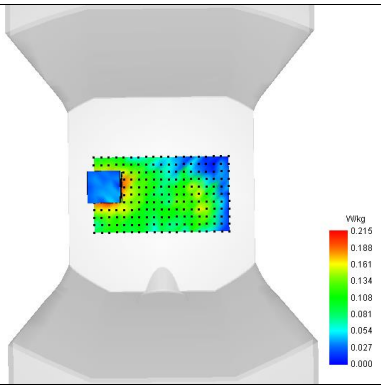
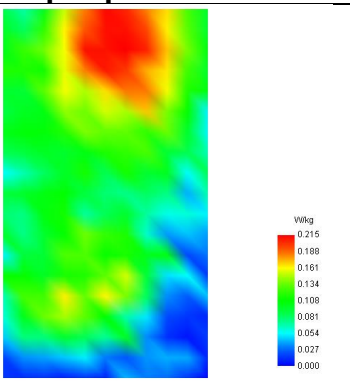
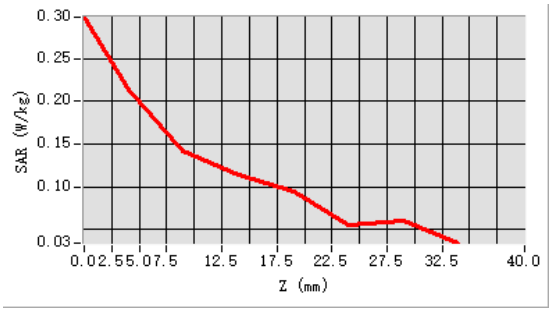
Maximum location: X=-57.00, Y=-22.00 ; SAR Peak: 0.25 W/kg

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

Plot 32:

Test Date	2023-05-18
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 26
Signal	LTE FDD
Frequency	831.5
SAR 10g (W/Kg)	0.142

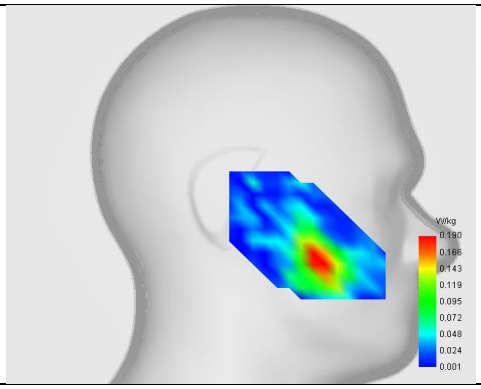
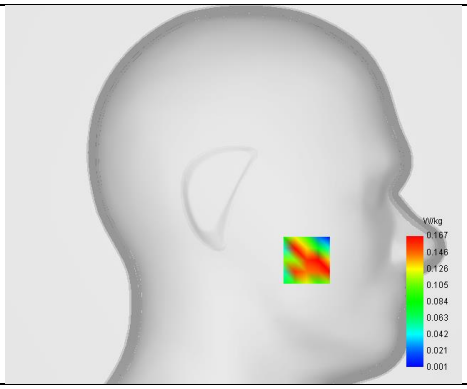
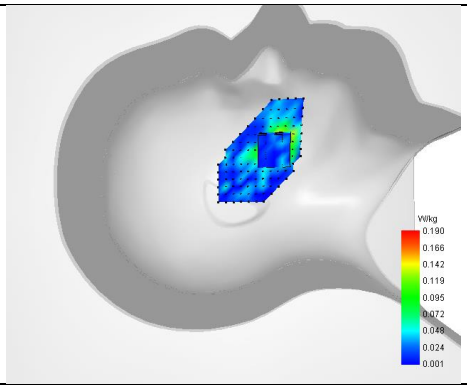
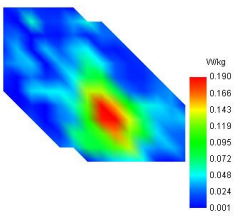
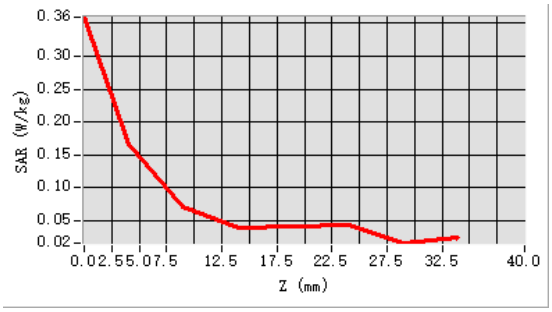
Maximum location: X=8.00, Y=58.00 ; SAR Peak: 0.34 W/kg

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

Plot 33:

Test Date	2023-05-23
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 38
Signal	LTE TDD
Frequency	2580
SAR 10g (W/Kg)	0.086
SAR 1g (W/Kg)	0.170

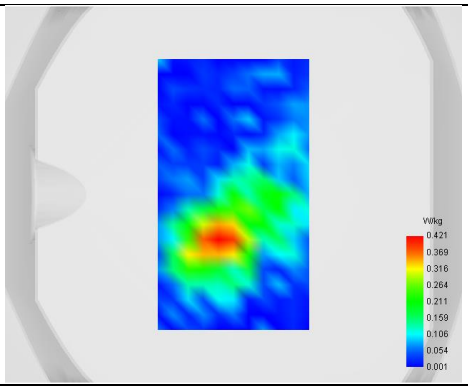
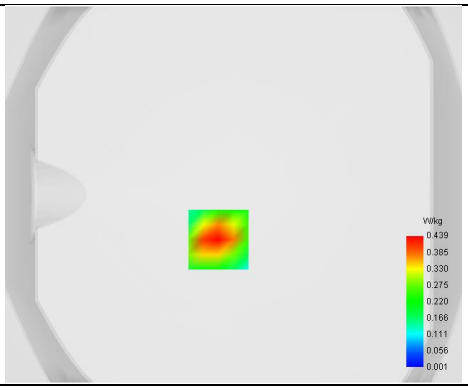
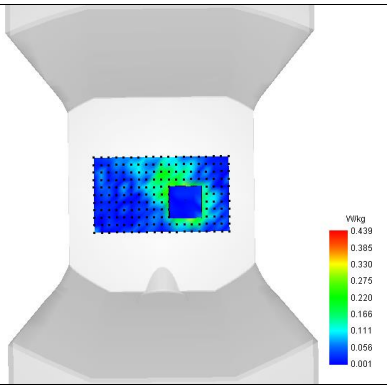
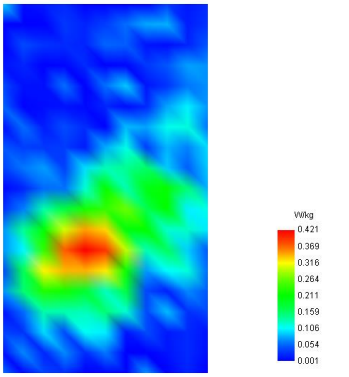
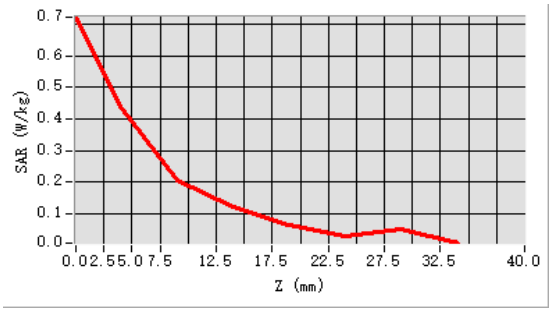
Maximum location: X=-50.00, Y=-45.00 ; SAR Peak: 0.37 W/kg

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

Plot 34:

Test Date	2023-05-23
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 38
Signal	LTE TDD
Frequency	2580
SAR 10g (W/Kg)	0.204
SAR 1g (W/Kg)	0.408

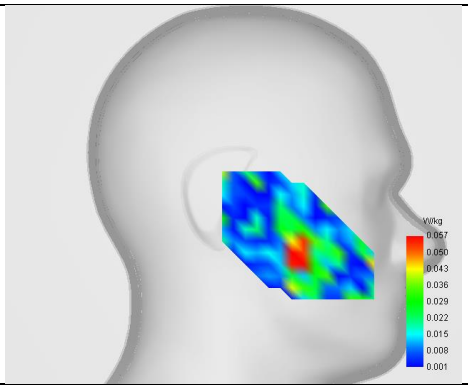
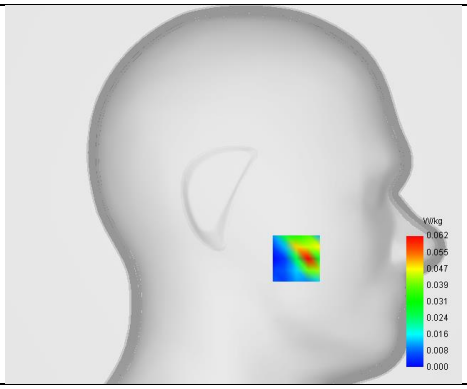
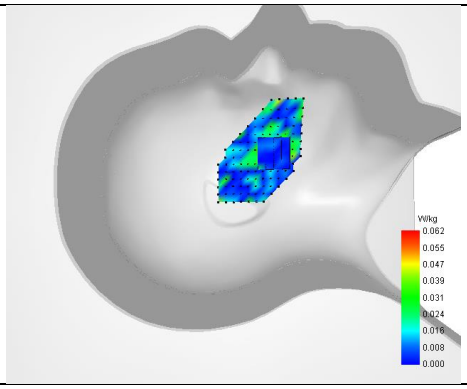
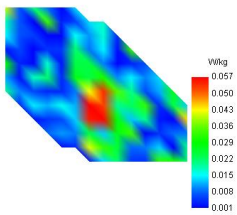
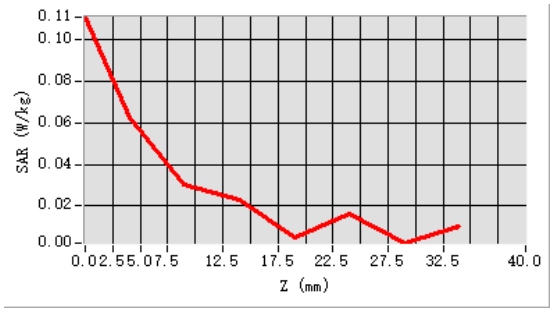
Maximum location: X=-8.00, Y=-24.00 ; SAR Peak: 0.73 W/kg

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

Plot 35:

Test Date	2023-05-22
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 40
Signal	LTE TDD
Frequency	2350
SAR 10g (W/Kg)	0.025
SAR 1g (W/Kg)	0.059

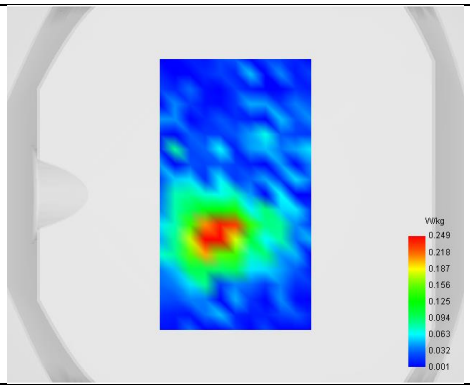
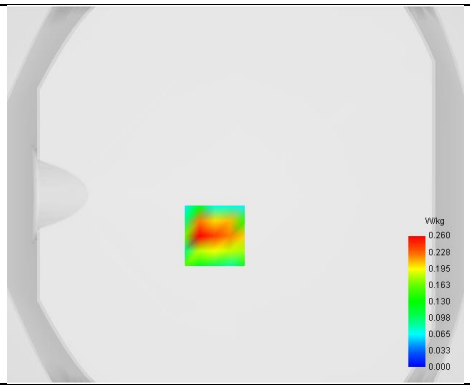
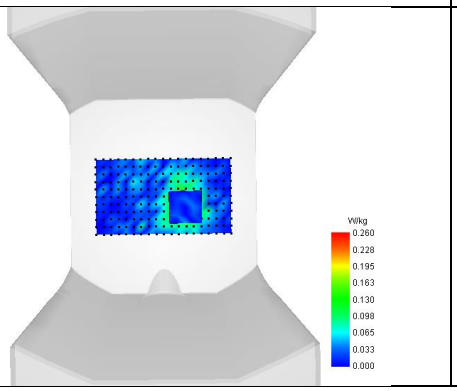
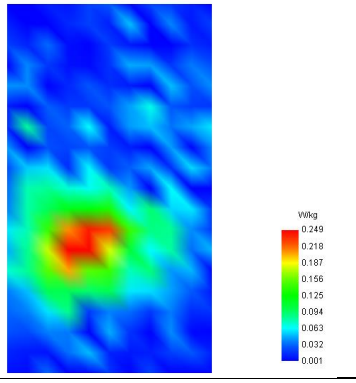
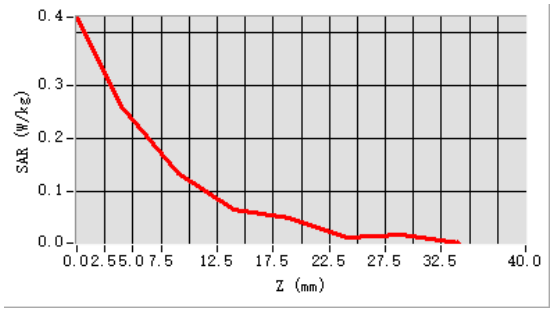
Maximum location: X=-43.00, Y=-44.00 ; SAR Peak: 0.16 W/kg

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

Plot 36:

Test Date	2023-05-22
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 40
Signal	LTE TDD
Frequency	2350
SAR 10g (W/Kg)	0.118
SAR 1g (W/Kg)	0.250

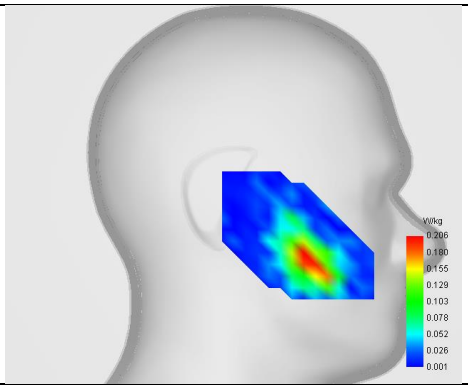
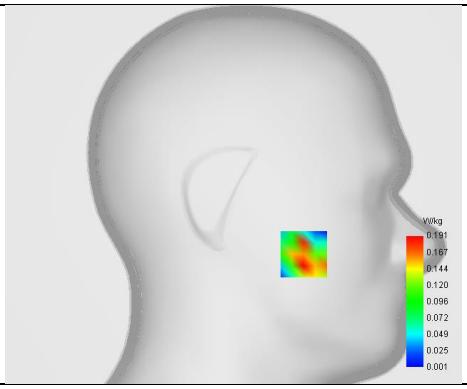
Maximum location: X=-11.00, Y=-22.00 ; SAR Peak: 0.49 W/kg

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

Plot 37:

Test Date	2023-05-23
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 41
Signal	LTE TDD
Frequency	2680
SAR 10g (W/Kg)	0.085
SAR 1g (W/Kg)	0.174

Maximum location: X=-48.00, Y=-41.00 ; SAR Peak: 0.35 W/kg

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