

Appendix B: Plots of SAR Test Data

SAR Measurement at GSM850 (Tilt, Right)

Date of measurement: 4/11/2022

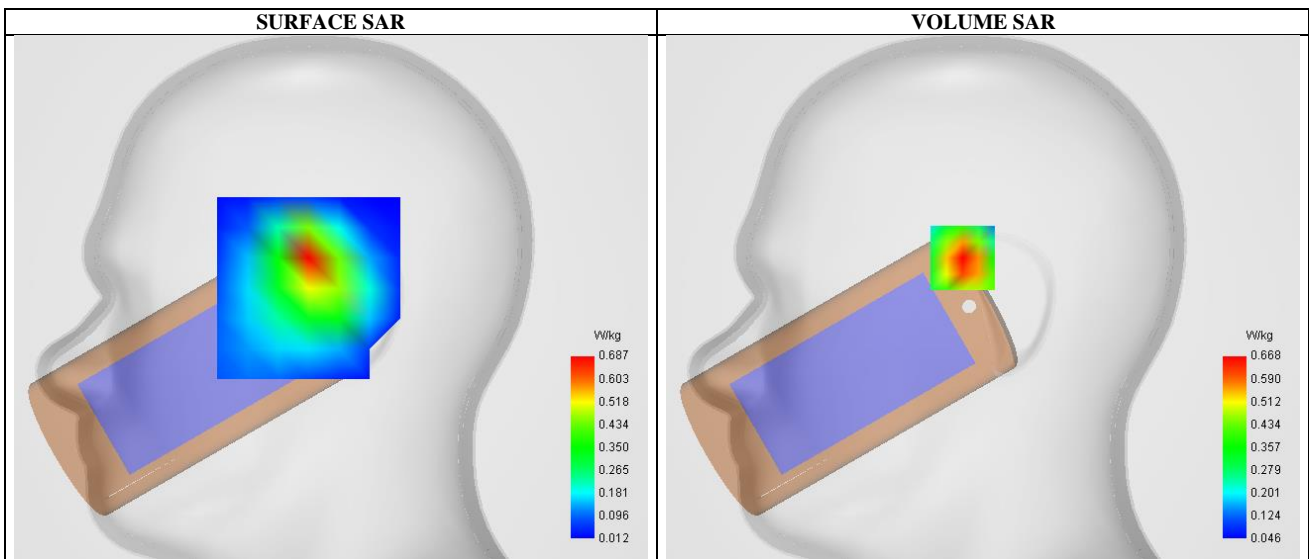
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.73
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

B. Permittivity

Frequency (MHz)	836.599976
Relative permittivity (real part)	40.710000
Conductivity (S/m)	0.901123

C. SAR Surface and Volume

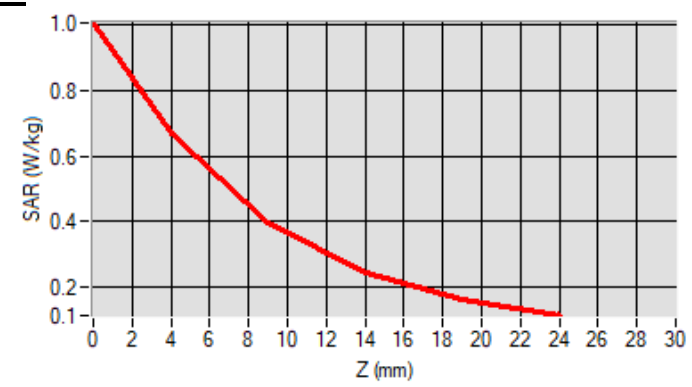


Maximum location: X=-10.00, Y=20.00 ; SAR Peak: 1.01 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.368326
SAR 1g (W/Kg)	0.626384
Variation (%)	-0.600000

E. Z Axis Scan



SAR Measurement at GSM1900 (Tilt, Right)

Date of measurement: 6/11/2022

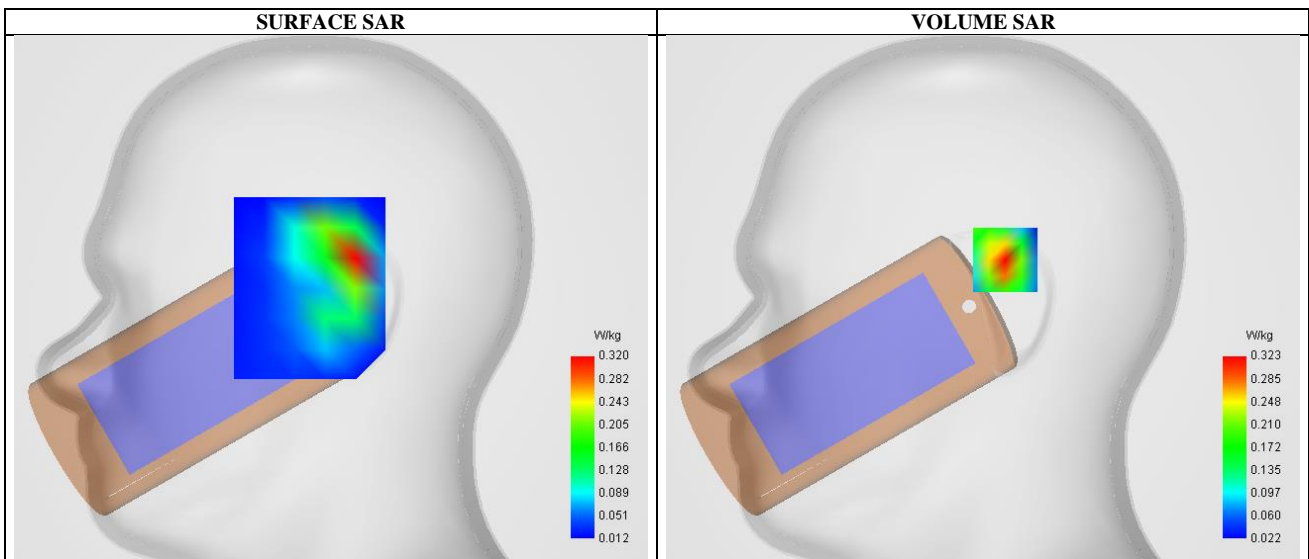
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.00
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	Low
Signal	TDMA (Crest factor: 8.0)

B. Permittivity

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.220000
Conductivity (S/m)	1.360340

C. SAR Surface and Volume

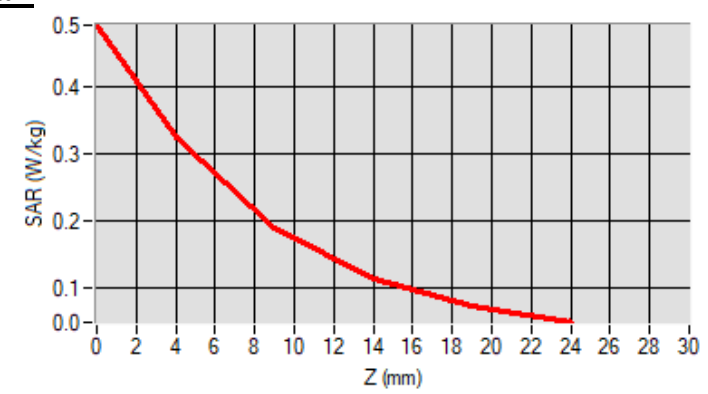


Maximum location: X=11.00, Y=19.00 ; SAR Peak: 0.50 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.159285
SAR 1g (W/Kg)	0.296838
Variation (%)	-2.560000

E. Z Axis Scan



SAR Measurement at Band2 WCDMA1900 (Tilt, Right)

Date of measurement: 6/11/2022

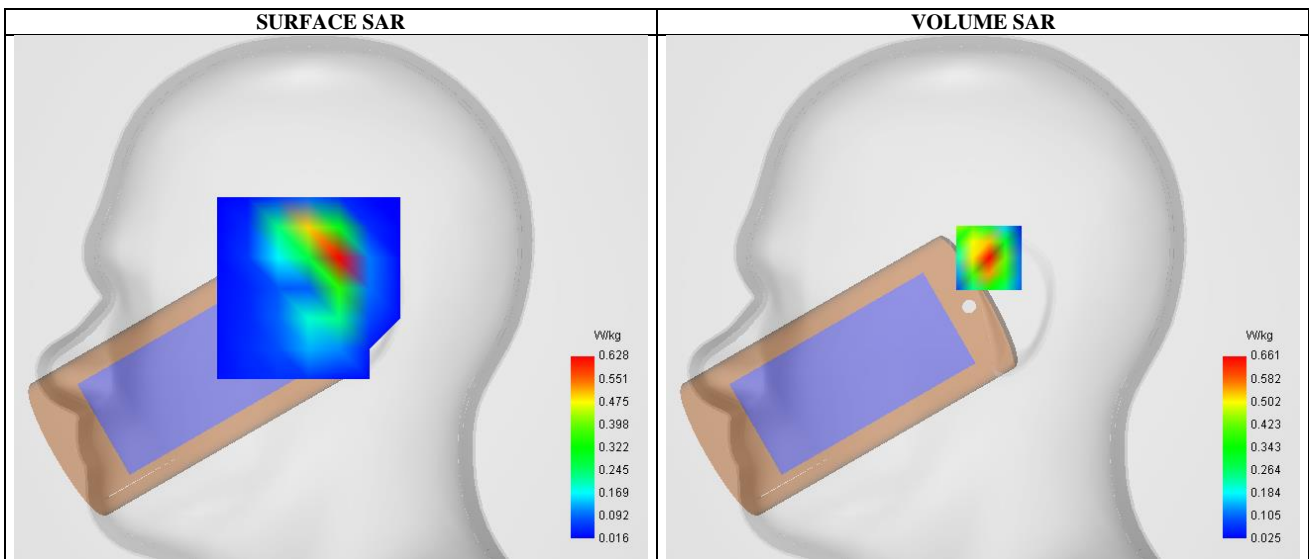
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.00
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	Band2_WCDMA1900
Channels	High
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1907.599976
Relative permittivity (real part)	39.410000
Conductivity (S/m)	1.376534

C. SAR Surface and Volume

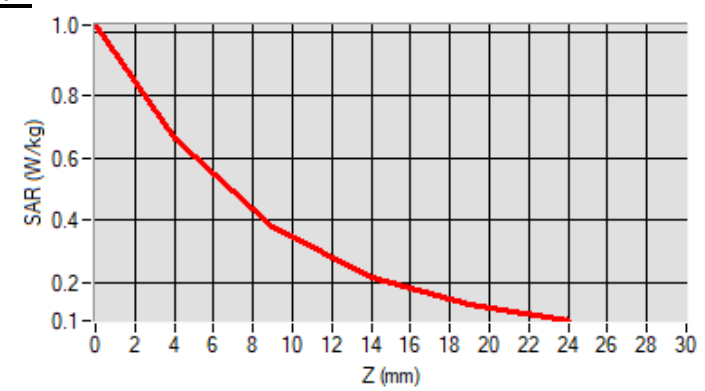


Maximum location: X=3.00, Y=20.00 ; SAR Peak: 1.03 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.314518
SAR 1g (W/Kg)	0.604396
Variation (%)	-3.940000

E. Z Axis Scan



SAR Measurement at CUSTOM (WCDMA 1700) (Tilt, Right)

Date of measurement: 6/11/2022

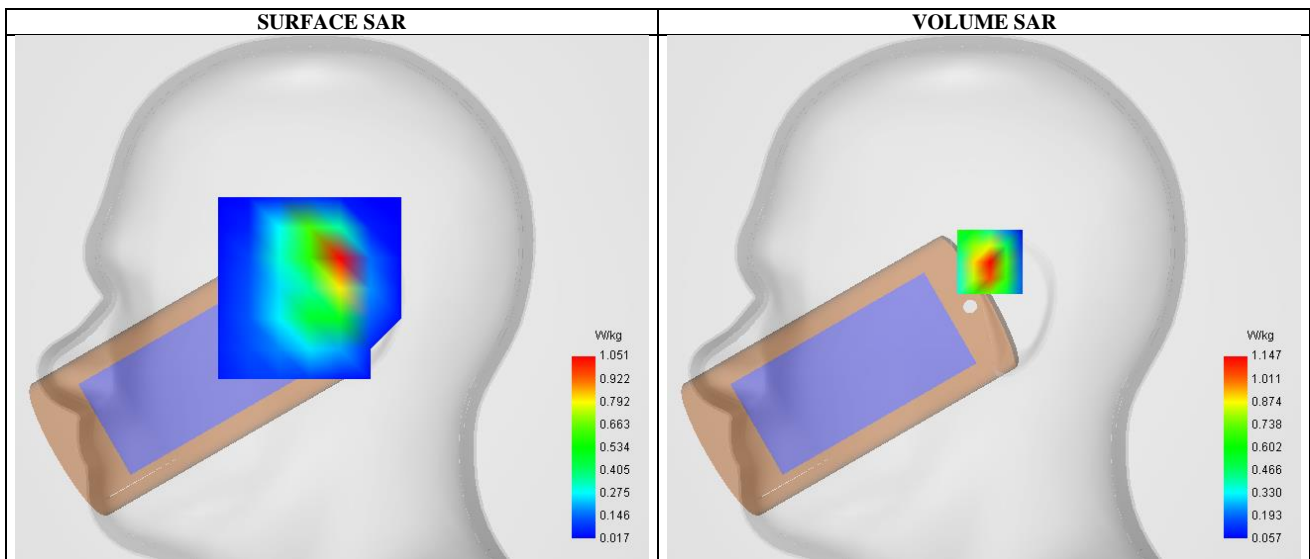
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.05
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	Band4_WCDMA1700
Channels	High
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1752.599976
Relative permittivity (real part)	39.694744s
Conductivity (S/m)	1.351441

C. SAR Surface and Volume

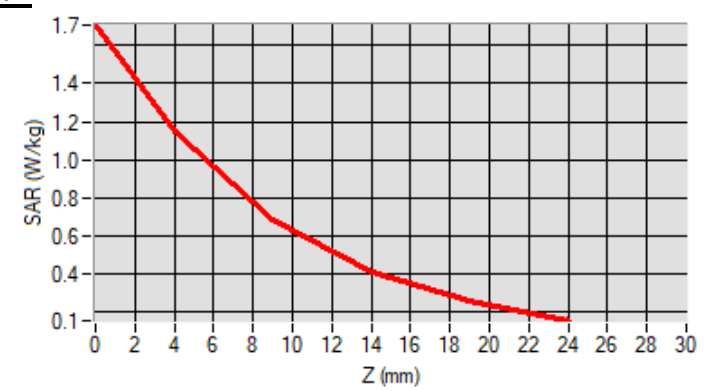


Maximum location: X=3.00, Y=18.00 ; SAR Peak: 1.76 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.556220
SAR 1g (W/Kg)	1.058474
Variation (%)	-3.050000

E. Z Axis Scan



SAR Measurement at Band5 WCDMA850 (Tilt, Right)

Date of measurement: 4/11/2022

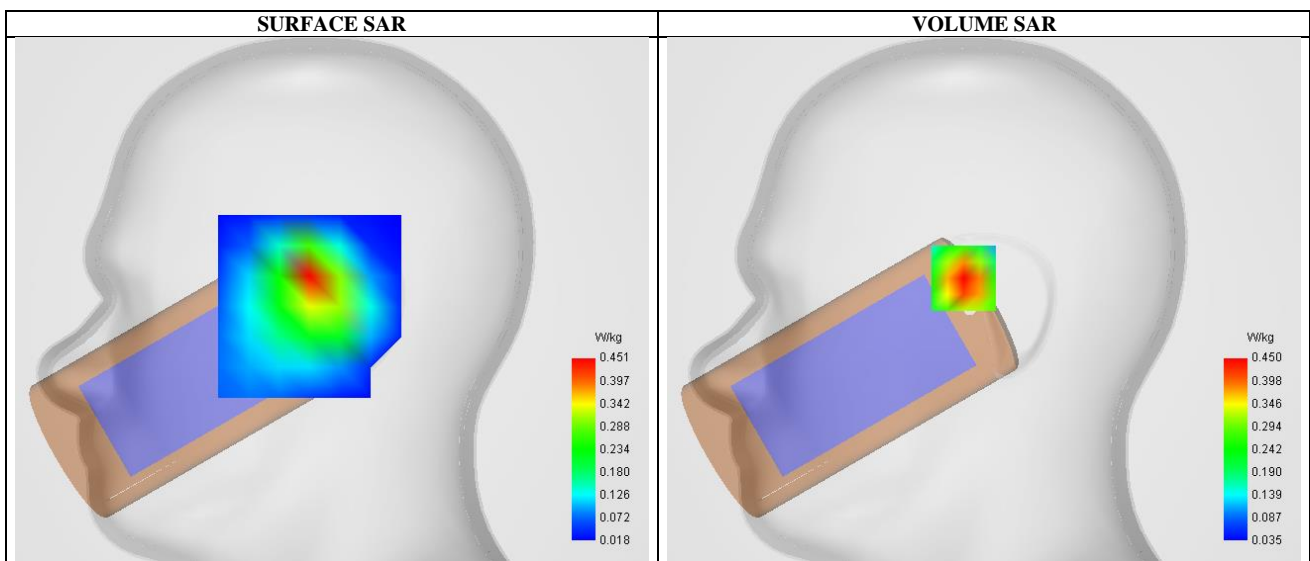
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.73
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	Band5_WCDMA850
Channels	High
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	846.599976
Relative permittivity (real part)	40.820000
Conductivity (S/m)	0.901724

C. SAR Surface and Volume

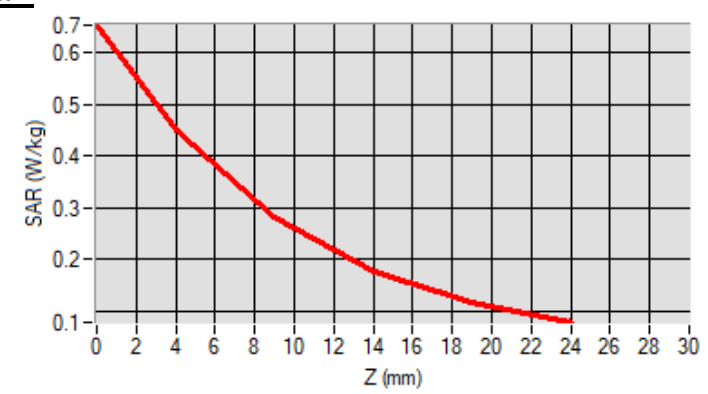


Maximum location: X=-10.00, Y=11.00 ; SAR Peak: 0.65 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.254690
SAR 1g (W/Kg)	0.422068
Variation (%)	-2.310000

E. Z Axis Scan



SAR Measurement at LTE band 2 (Tilt, Right)

Date of measurement: 6/11/2022

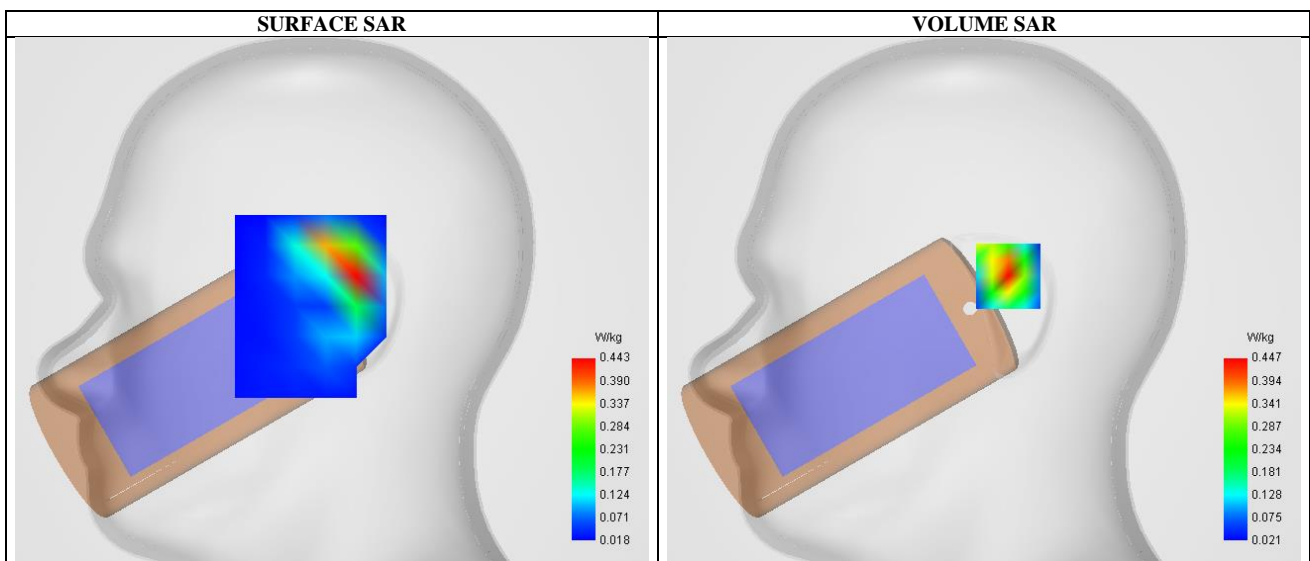
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.00
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	LTE band 2
Channels	Low
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1860.000000
Relative permittivity (real part)	39.275280
Conductivity (S/m)	1.365304

C. SAR Surface and Volume

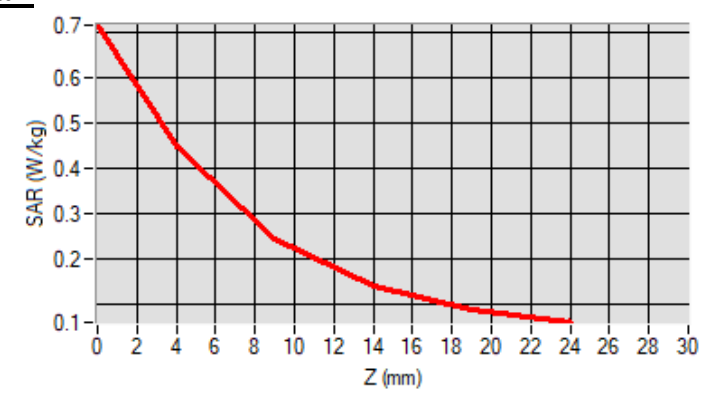


Maximum location: X=12.00, Y=12.00 ; SAR Peak: 0.71 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.203430
SAR 1g (W/Kg)	0.359401
Variation (%)	-1.940000

E. Z Axis Scan



SAR Measurement at LTE band 5 (Tilt, Right)

Date of measurement: 4/11/2022

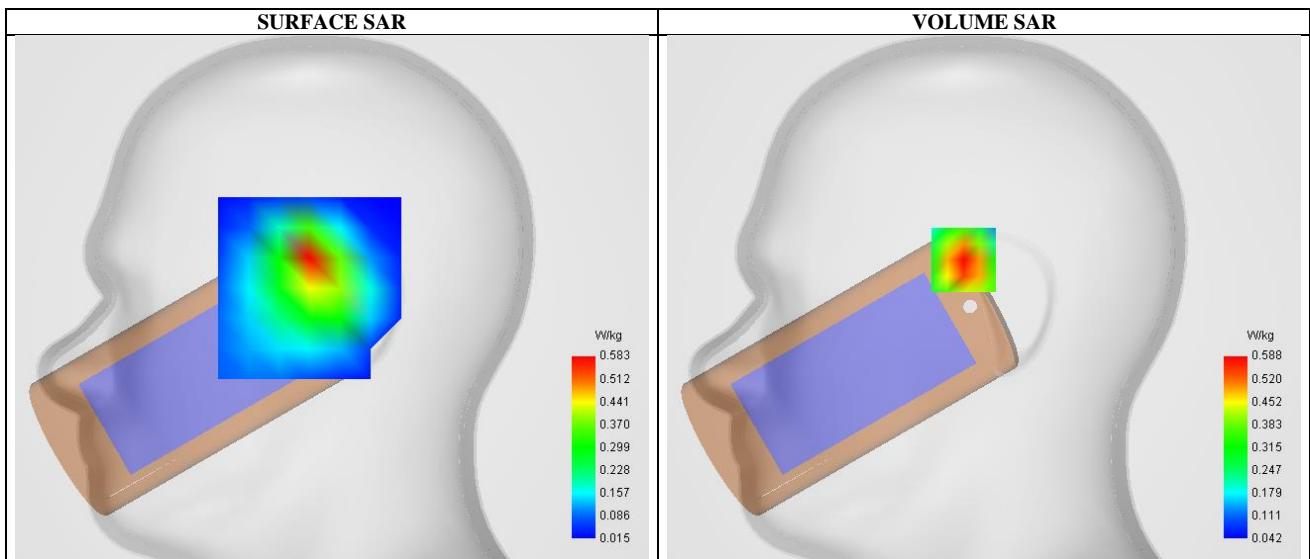
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.73
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	LTE band 5
Channels	Middle
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	836.500000
Relative permittivity (real part)	40.590000
Conductivity (S/m)	0.900531

C. SAR Surface and Volume

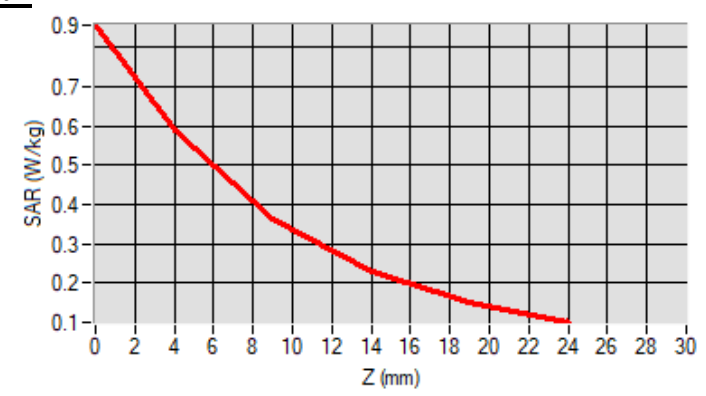


Maximum location: X=-10.00, Y=19.00 ; SAR Peak: 0.86 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.330315
SAR 1g (W/Kg)	0.551766
Variation (%)	-1.950000

E. Z Axis Scan



SAR Measurement at LTE band 7 (Cheek, Right)

Date of measurement: 9/11/2022

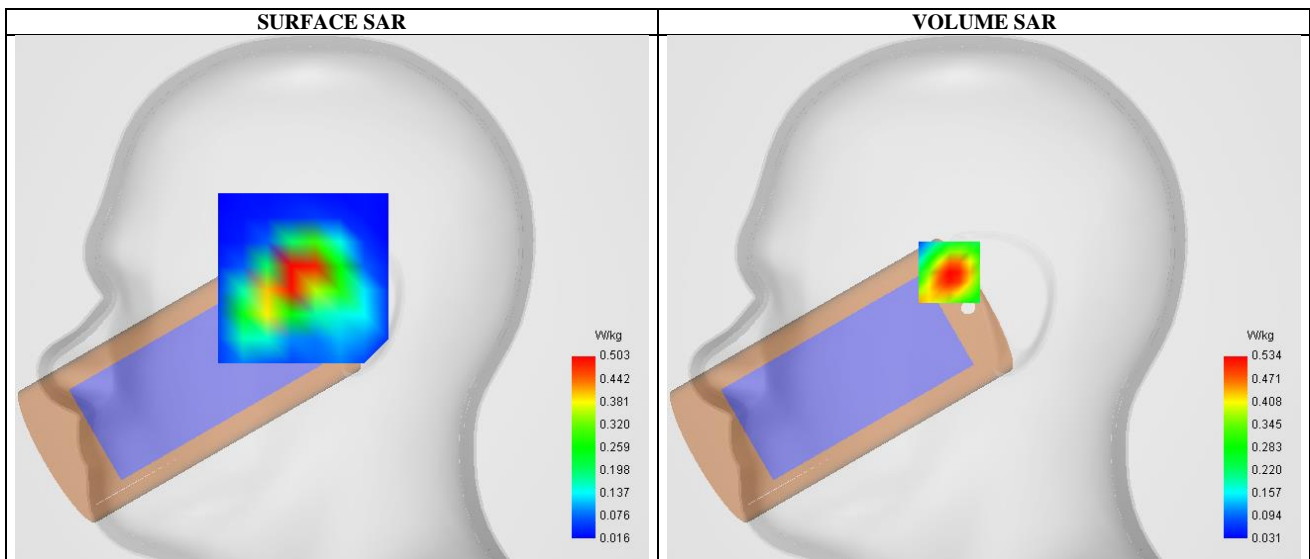
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.27
Area Scan	dx=12mm dy=12mm
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 7
Channels	High
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2560.000000
Relative permittivity (real part)	38.186666
Conductivity (S/m)	1.937491

C. SAR Surface and Volume

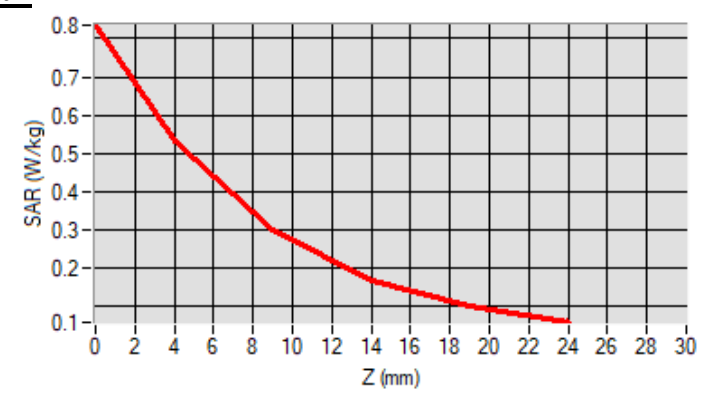


Maximum location: X=-17.00, Y=13.00 ; SAR Peak: 0.86 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.268671
SAR 1g (W/Kg)	0.496081
Variation (%)	-1.450000

E. Z Axis Scan



SAR Measurement at LTE band 12 (Tilt, Right)

Date of measurement: 4/11/2022

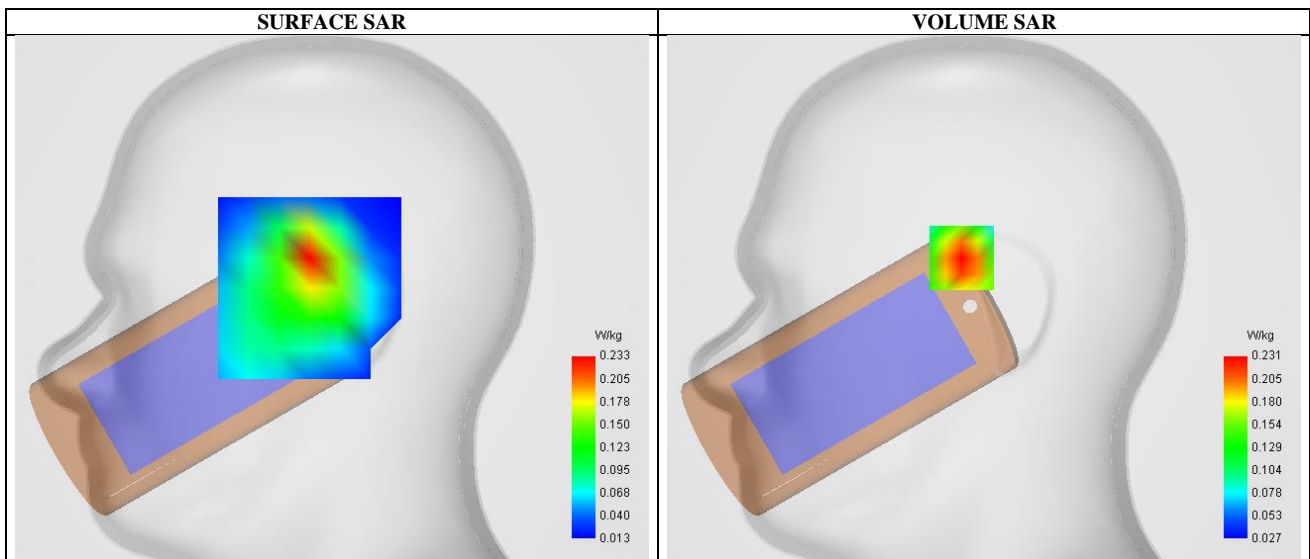
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.70
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	LTE band 12
Channels	Low
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	704.000000
Relative permittivity (real part)	41.126137
Conductivity (S/m)	0.874404

C. SAR Surface and Volume

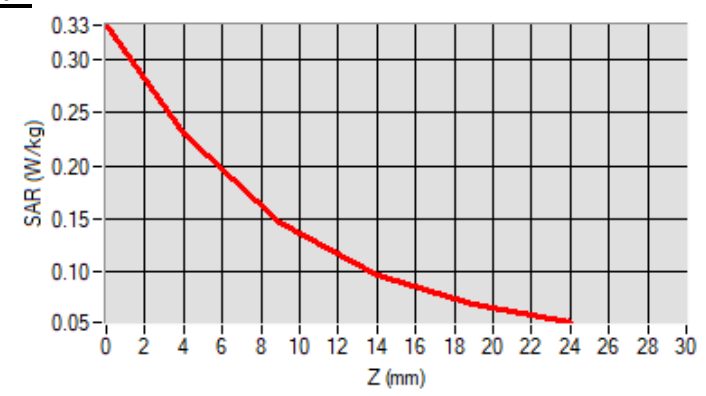


Maximum location: X=-11.00, Y=20.00 ; SAR Peak: 0.33 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.141451
SAR 1g (W/Kg)	0.222899
Variation (%)	-2.170000

E. Z Axis Scan



SAR Measurement at CUSTOM (LTE Band 41) (Tilt, Right)

Date of measurement: 9/11/2022

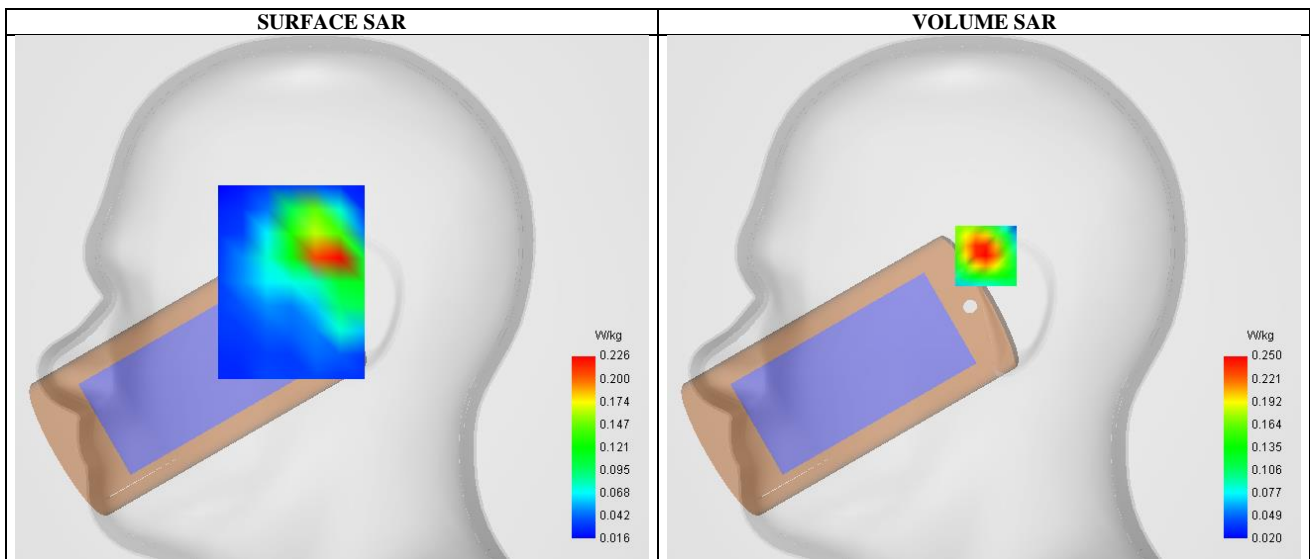
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.27
Area Scan	dx=12mm dy=12mm
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	LTE band 41
Channels	High
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2680.000000
Relative permittivity (real part)	38.263351
Conductivity (S/m)	1.952401

C. SAR Surface and Volume

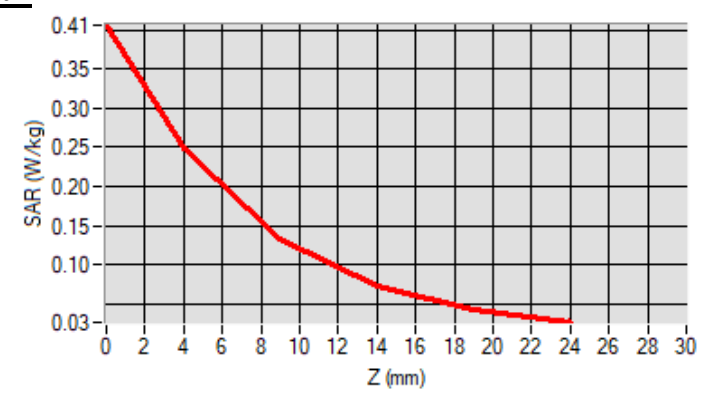


Maximum location: X=1.00, Y=21.00 ; SAR Peak: 0.41 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.119921
SAR 1g (W/Kg)	0.230552
Variation (%)	-1.390000

E. Z Axis Scan



SAR Measurement at CUSTOM (LTE Band 66) (Tilt, Right)

Date of measurement: 6/11/2022

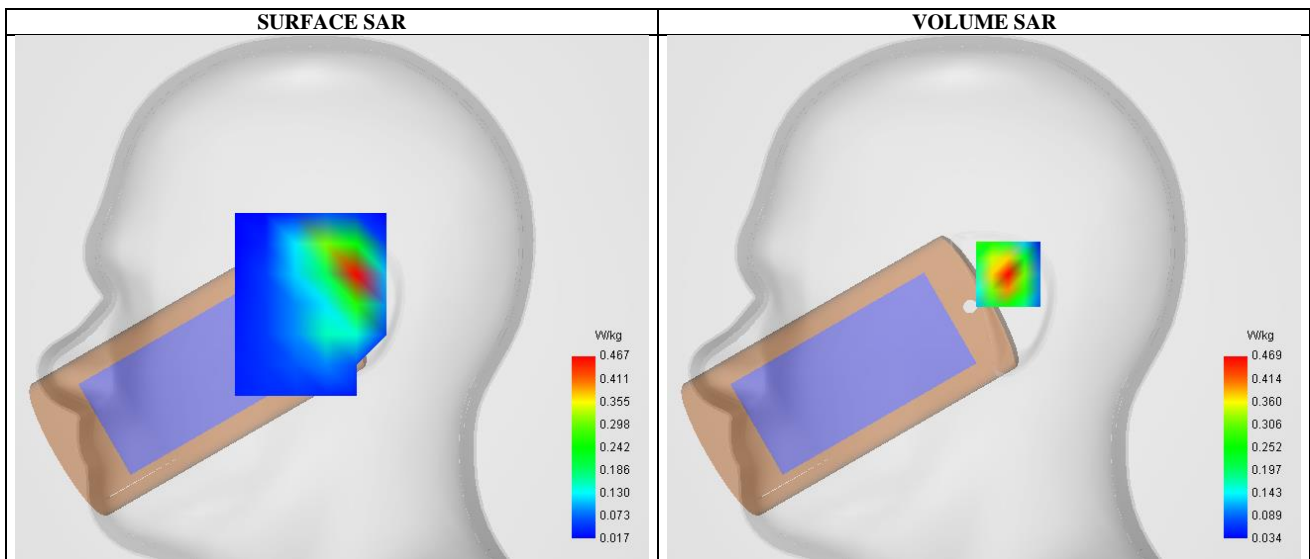
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.05
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	LTE band 66
Channels	Middle
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1745.000000
Relative permittivity (real part)	39.631000
Conductivity (S/m)	1.350124

C. SAR Surface and Volume

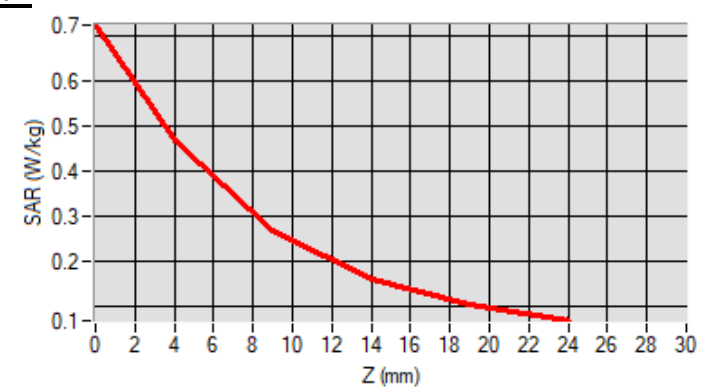


Maximum location: X=12.00, Y=12.00 ; SAR Peak: 0.73 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.229130
SAR 1g (W/Kg)	0.430888
Variation (%)	-0.290000

E. Z Axis Scan



SAR Measurement at CUSTOM (NRn5) (Tilt, Right)

Date of measurement: 4/11/2022

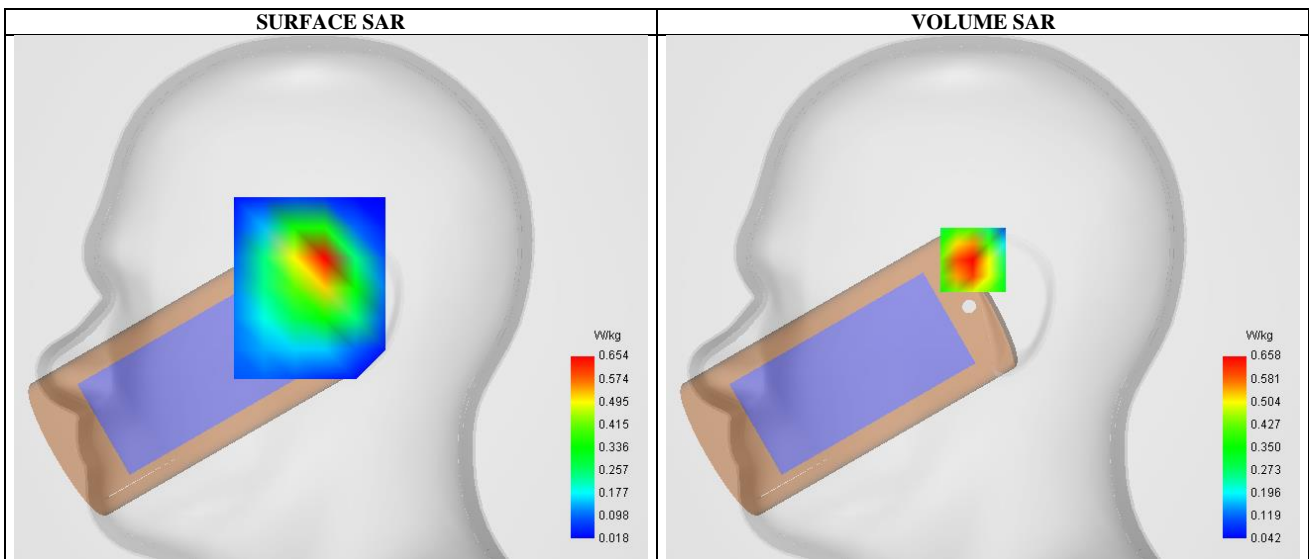
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.70
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	NR n5
Channels	High
Signal	NR (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	839.000000
Relative permittivity (real part)	40.715000
Conductivity (S/m)	0.890151

C. SAR Surface and Volume

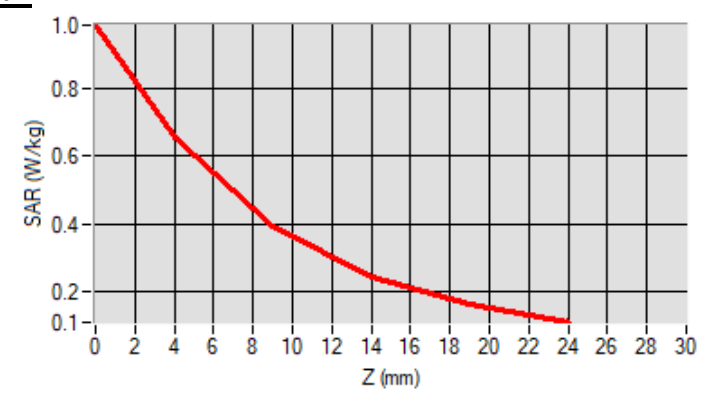


Maximum location: X=-5.00, Y=19.00 ; SAR Peak: 0.99 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.372023
SAR 1g (W/Kg)	0.623649
Variation (%)	1.940000

E. Z Axis Scan



SAR Measurement at CUSTOM (NRn7) (Cheek, Right)

Date of measurement: 9/11/2022

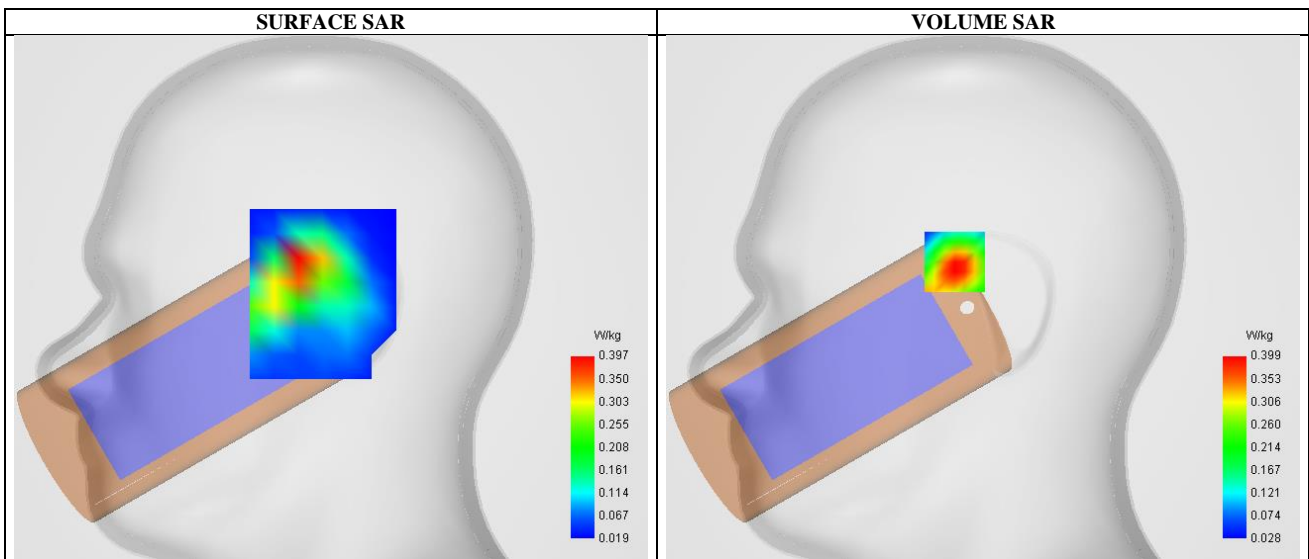
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.27
Area Scan	dx=12mm dy=12mm
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	NR n7
Channels	High
Signal	NR (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2560.000000
Relative permittivity (real part)	38.112641
Conductivity (S/m)	1.927413

C. SAR Surface and Volume

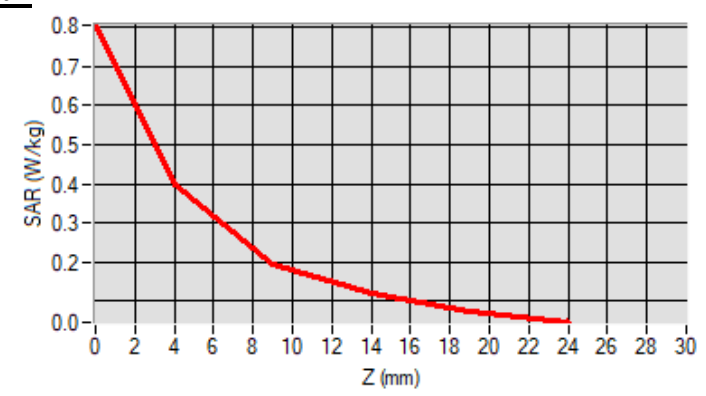


Maximum location: X=-14.00, Y=18.00 ; SAR Peak: 0.66 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.200432
SAR 1g (W/Kg)	0.373967
Variation (%)	-3.500000

E. Z Axis Scan



SAR Measurement at CUSTOM (NR n12) (Cheek, Right)

Date of measurement: 4/11/2022

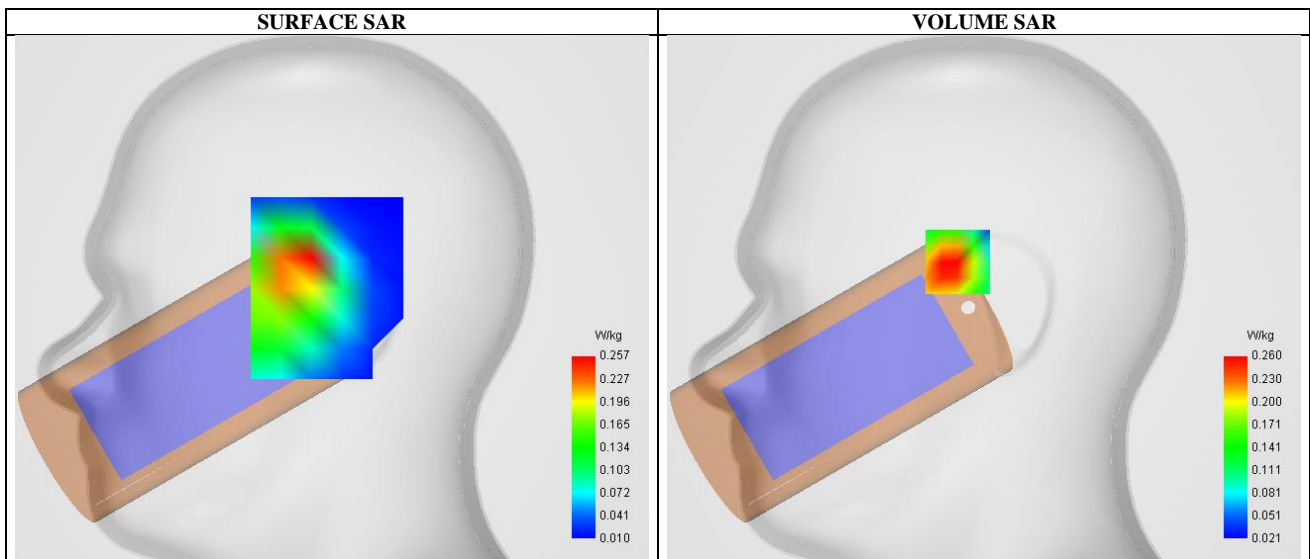
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.70
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilted
Band	NR n12
Channels	Low
Signal	NR (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	706.500000
Relative permittivity (real part)	41.120455
Conductivity (S/m)	0.874041

C. SAR Surface and Volume

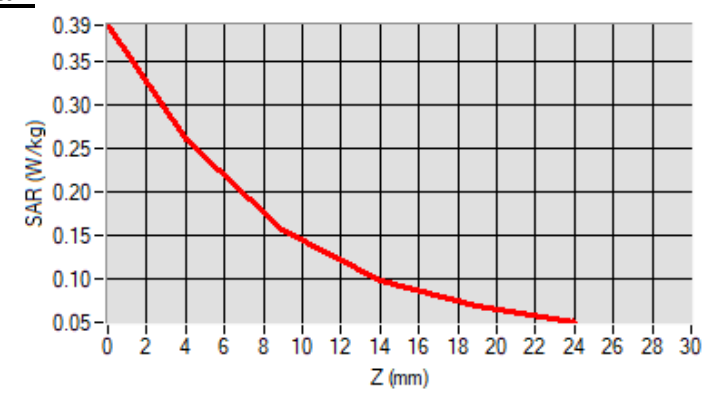


Maximum location: X=-13.00, Y=18.00 ; SAR Peak: 0.40 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.161603
SAR 1g (W/Kg)	0.259743
Variation (%)	-1.300000

E. Z Axis Scan



SAR Measurement at CUSTOM (NR n41) (Tilt, Right)

Date of measurement: 9/11/2022

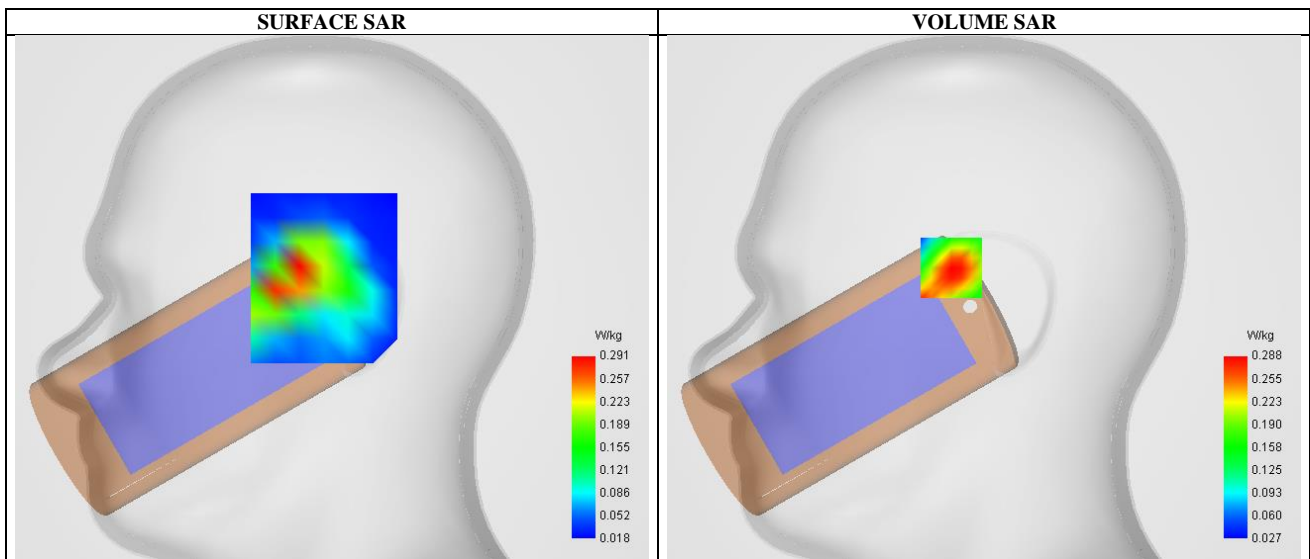
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.27
Area Scan	dx=12mm dy=12mm
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	NR n41
Channels	Middle
Signal	NR (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2592.990000
Relative permittivity (real part)	38.160000
Conductivity (S/m)	1.937011

C. SAR Surface and Volume

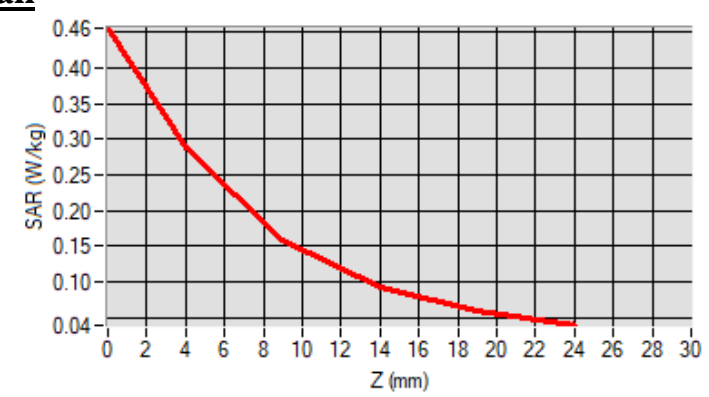


Maximum location: X=-16.00, Y=15.00 ; SAR Peak: 0.47 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.152574
SAR 1g (W/Kg)	0.269236
Variation (%)	-1.570000

E. Z Axis Scan



SAR Measurement at CUSTOM (NR n66) (Tilt, Right)

Date of measurement: 9/11/2022

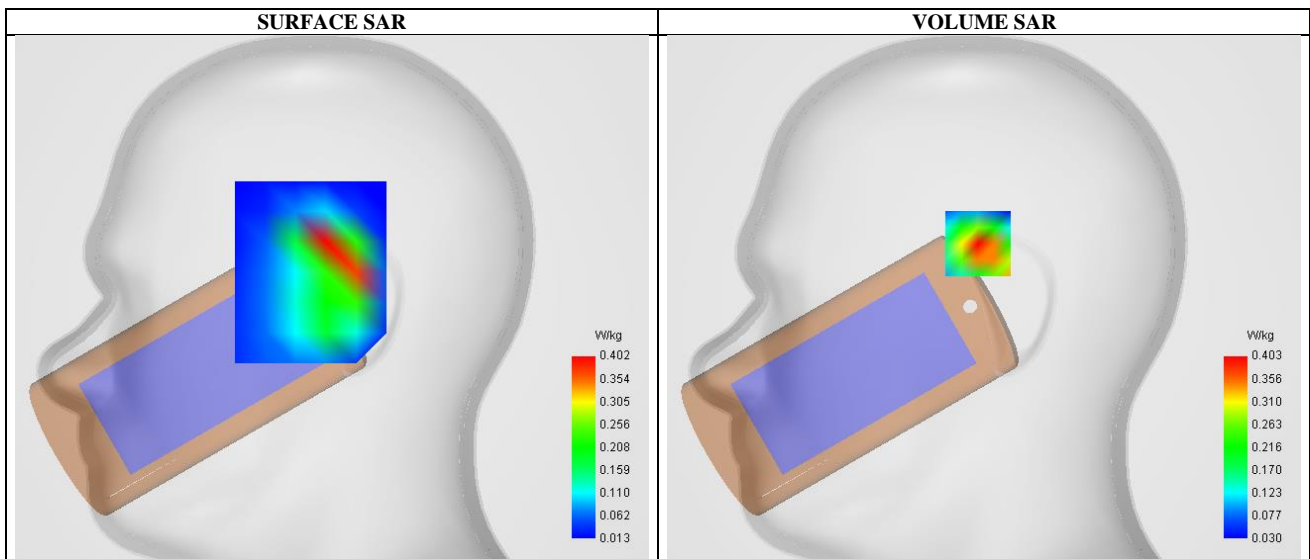
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.05
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	NR n66
Channels	Middle
Signal	NR (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1745.000000
Relative permittivity (real part)	39.692452
Conductivity (S/m)	1.346782

C. SAR Surface and Volume

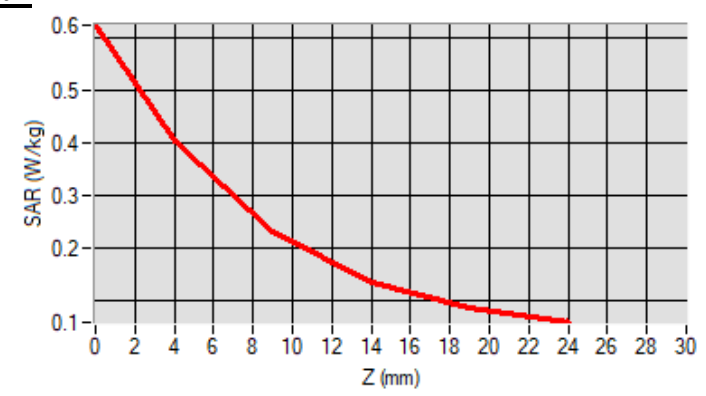


Maximum location: X=-3.00, Y=27.00 ; SAR Peak: 0.63 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.209645
SAR 1g (W/Kg)	0.376270
Variation (%)	-3.750000

E. Z Axis Scan



SAR Measurement at CUSTOM (NR n77) (Tilt, Left)

Date of measurement: 11/11/2022

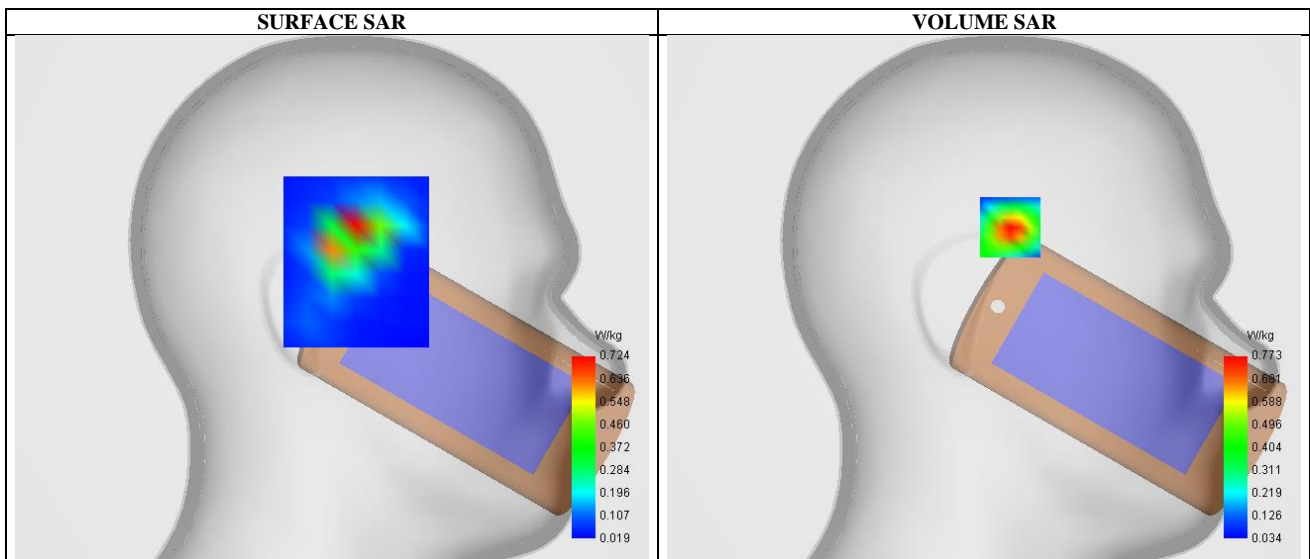
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.10
Area Scan	dx=12mm dy=12mm
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=4mm,Complete
Phantom	Left head
Device Position	Tilt
Band	NR n77
Channels	Middle
Signal	NR (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	3500.010000
Relative permittivity (real part)	38.781230
Conductivity (S/m)	2.930125

C. SAR Surface and Volume

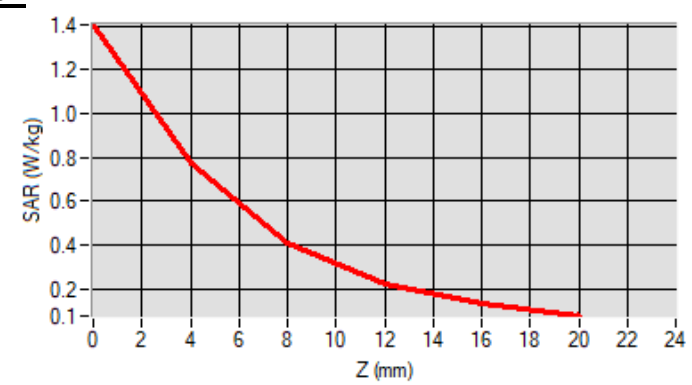


Maximum location: X=-13.00, Y=35.00 ; SAR Peak: 1.42 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.312952
SAR 1g (W/Kg)	0.688312
Variation (%)	-0.490000

E. Z Axis Scan



SAR Measurement at CUSTOM (NR n77) (Tilt, Left)

Date of measurement: 11/11/2022

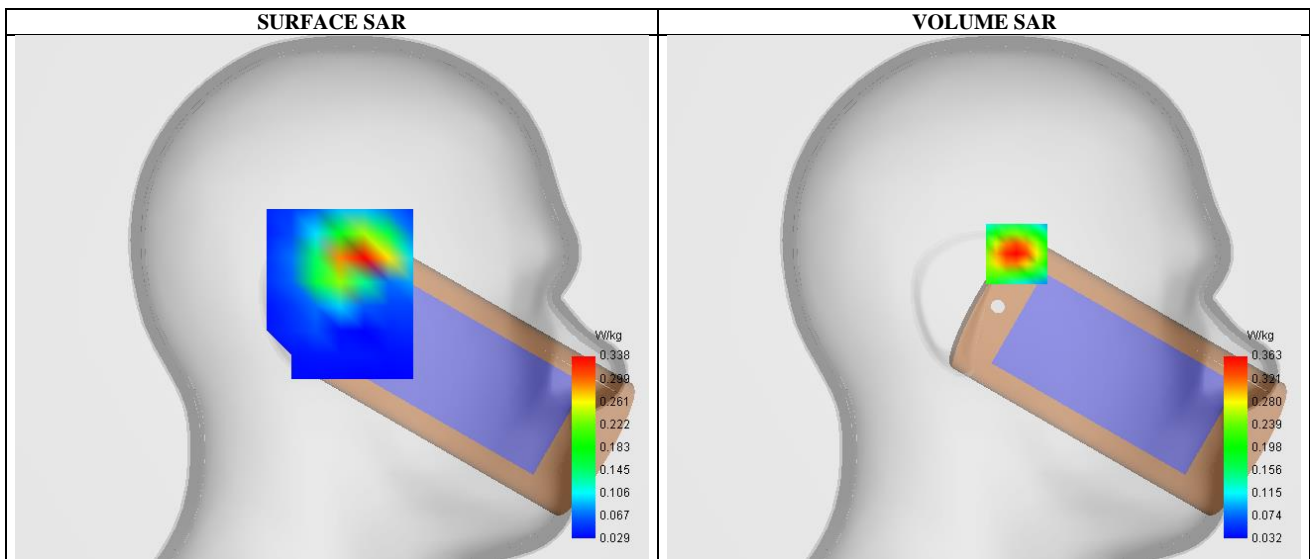
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.41
Area Scan	dx=12mm dy=12mm
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=4mm,Complete
Phantom	Left head
Device Position	Tilt
Band	NR n77
Channels	High
Signal	NR (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	3930.000000
Relative permittivity (real part)	38.124044
Conductivity (S/m)	3.361021

C. SAR Surface and Volume

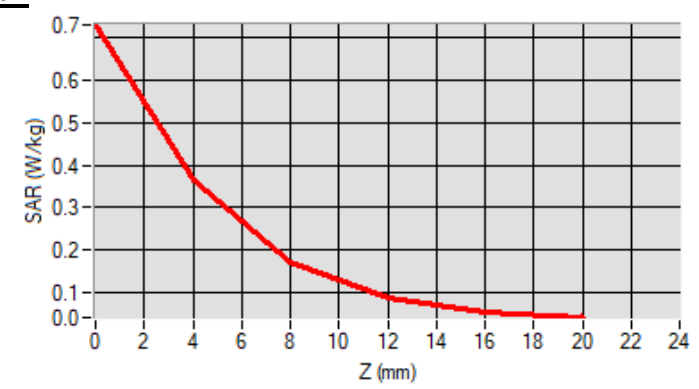


Maximum location: X=-16.00, Y=22.00 ; SAR Peak: 0.73 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.163991
SAR 1g (W/Kg)	0.338619
Variation (%)	-1.020000

E. Z Axis Scan



SAR Measurement at IEEE 802.11b ISM (Cheek, Left)

Date of measurement: 9/11/2022

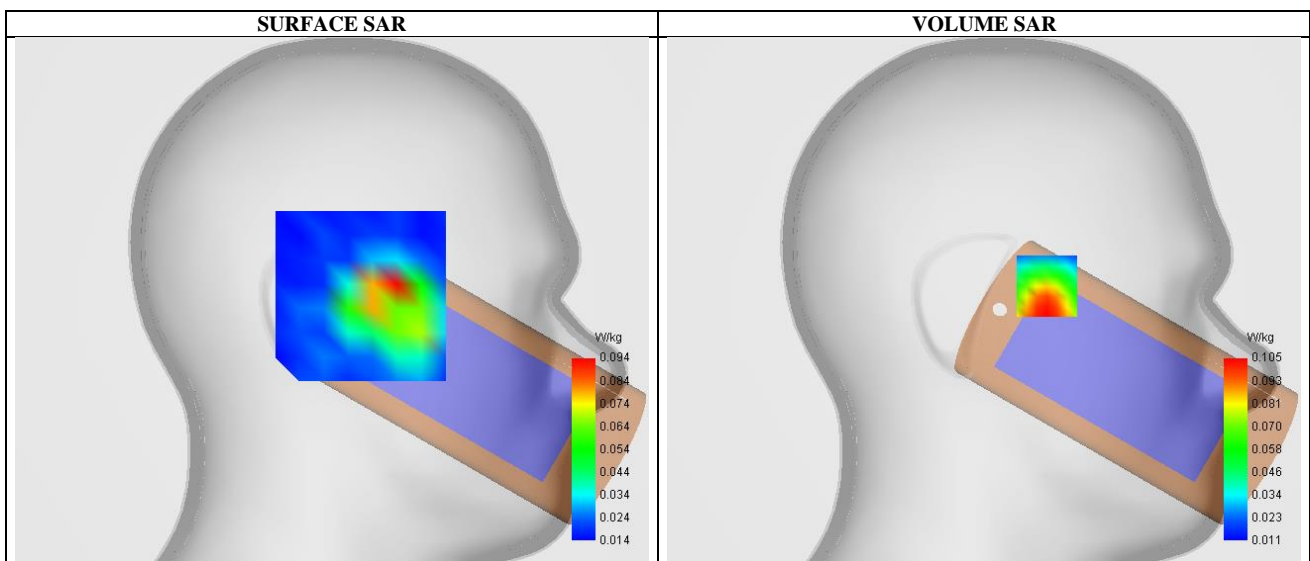
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.46
Area Scan	dx=12mm dy=12mm
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	High
Signal	IEEE802.b (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2462.000000
Relative permittivity (real part)	38.960020
Conductivity (S/m)	1.788021

C. SAR Surface and Volume

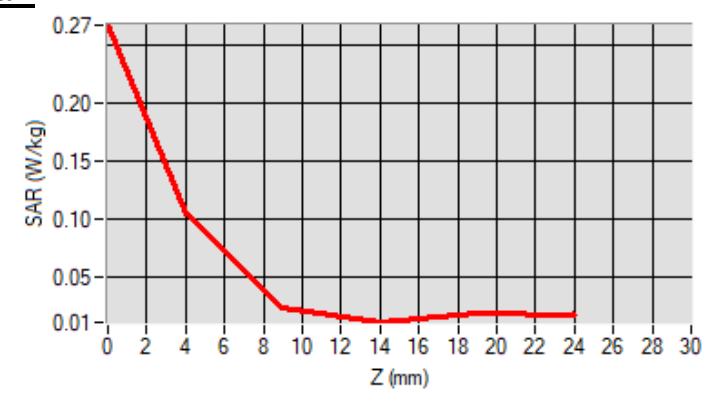


Maximum location: X=-31.00, Y=7.00 ; SAR Peak: 0.24 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.056654
SAR 1g (W/Kg)	0.101777
Variation (%)	-1.430000

E. Z Axis Scan



SAR Measurement at CUSTOM (5.2GHz 802.11a) (Cheek, Left)

Date of measurement: 14/11/2022

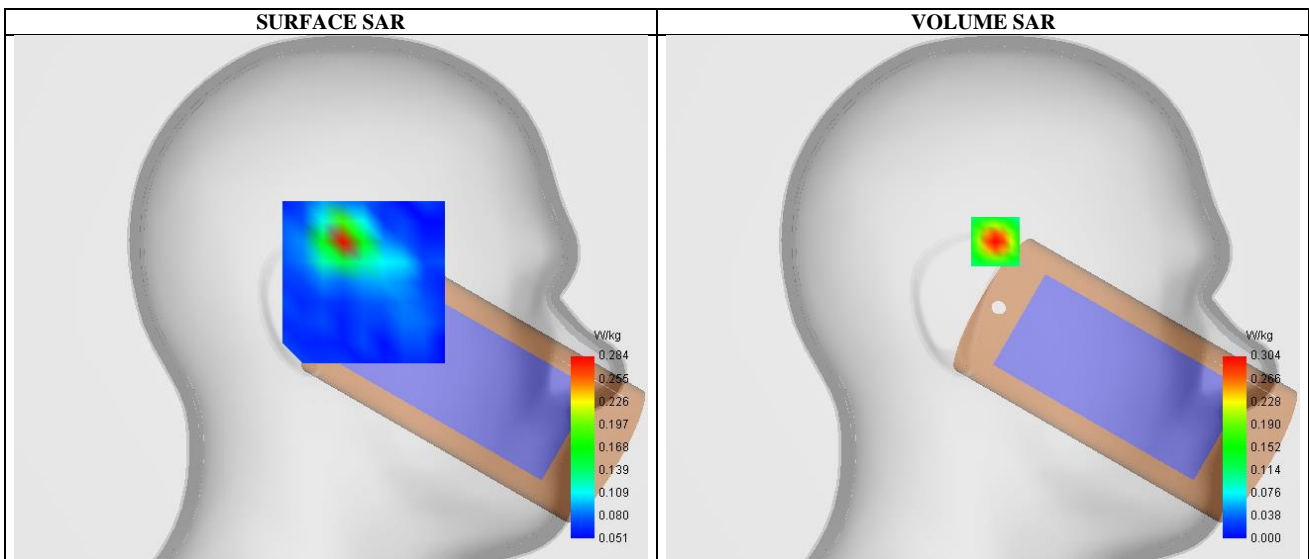
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.71
Area Scan	dx=10mm dy=10mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Left head
Device Position	Cheek
Band	IEEE 802.11a
Channels	High
Signal	IEEE802.a (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	5240.000000
Relative permittivity (real part)	37.151564
Conductivity (S/m)	4.735201

C. SAR Surface and Volume

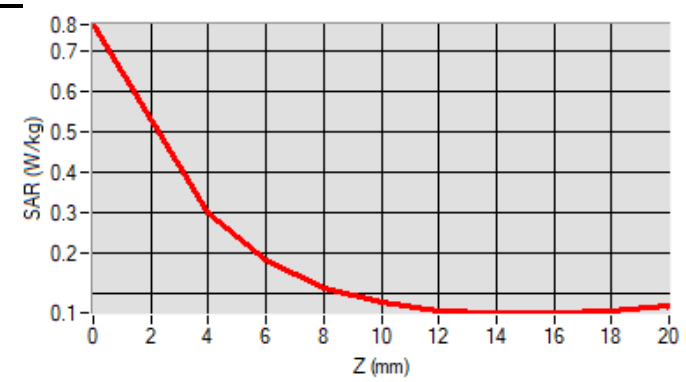


Maximum location: X=-6.00, Y=28.00 ; SAR Peak: 0.75 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.131355
SAR 1g (W/Kg)	0.284899
Variation (%)	1.200000

E. Z Axis Scan



SAR Measurement at CUSTOM (5.8GHz 802.11a) (Cheek, Left)

Date of measurement: 14/11/2022

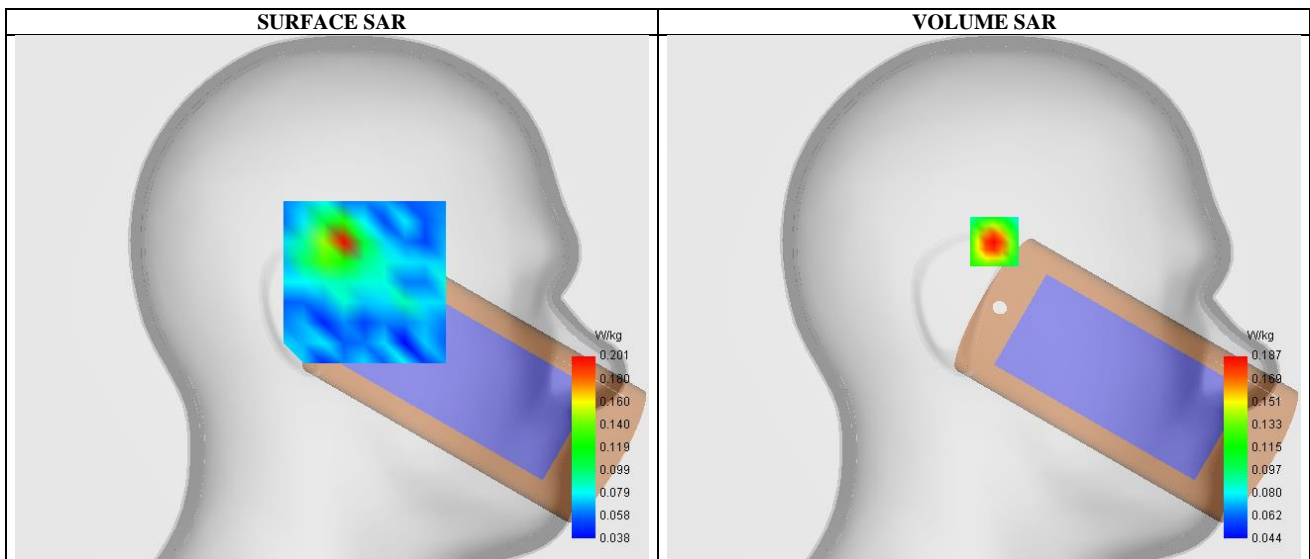
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.94
Area Scan	dx=10mm dy=10mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Left head
Device Position	Cheek
Band	IEEE 802.11a
Channels	Middle
Signal	IEEE802.a (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	5785.000000
Relative permittivity (real part)	35.101241
Conductivity (S/m)	5.214763

C. SAR Surface and Volume

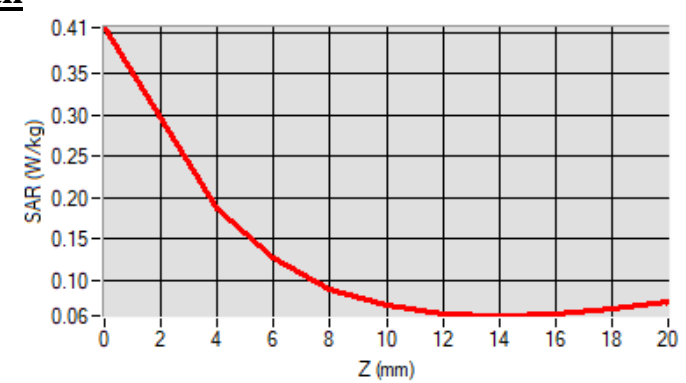


Maximum location: X=-5.00, Y=28.00 ; SAR Peak: 0.40 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.102617
SAR 1g (W/Kg)	0.179355
Variation (%)	-0.860000

E. Z Axis Scan



SAR Measurement at Bluetooth (Cheek, Left)

Date of measurement: 9/11/2022

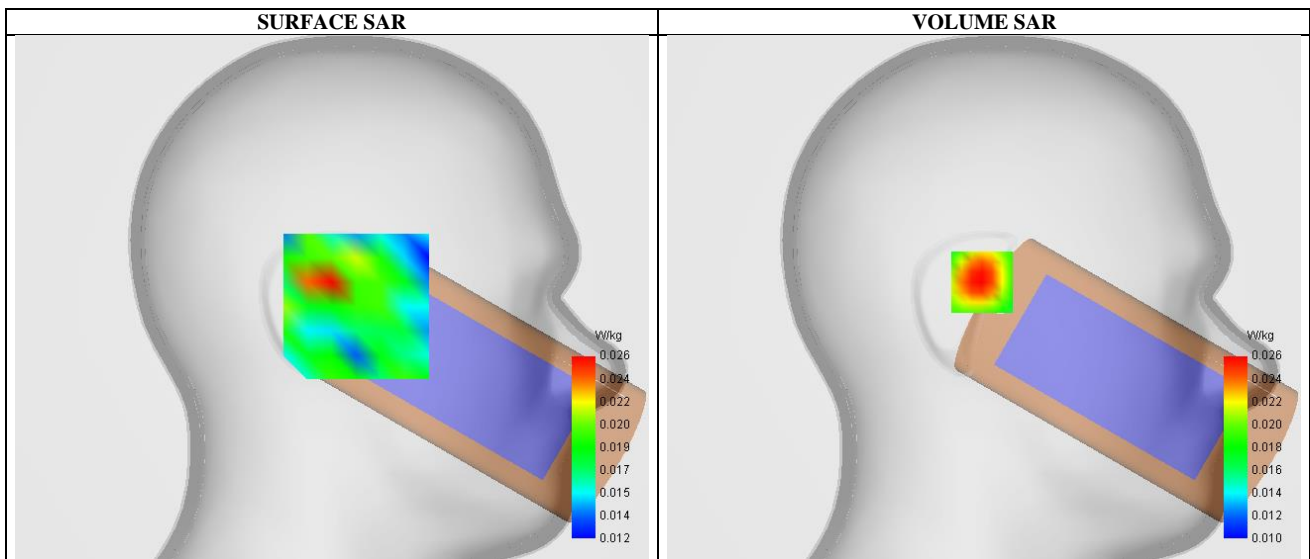
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.46
Area Scan	dx=12mm dy=12mm
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	Bluetooth
Channels	High
Signal	Bluetooth (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2480.000000
Relative permittivity (real part)	39.217999
Conductivity (S/m)	1.791558

C. SAR Surface and Volume

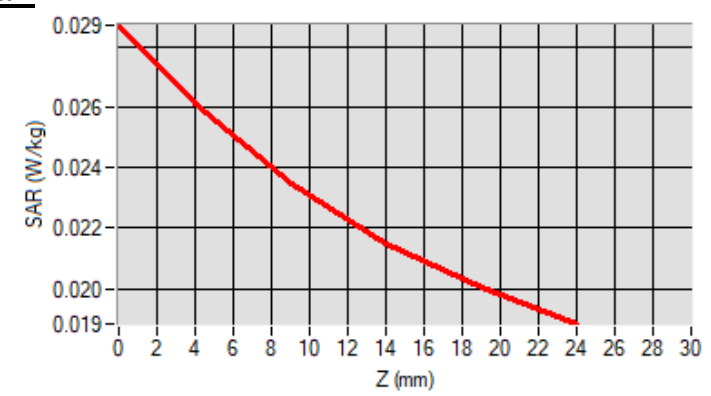


Maximum location: X=1.00, Y=8.00 ; SAR Peak: 0.03 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.021760
SAR 1g (W/Kg)	0.025324
Variation (%)	-3.040000

E. Z Axis Scan



SAR Measurement at CUSTOM (GPRS8504Txslots) (Body, Validation Plane)

Date of measurement: 4/11/2022

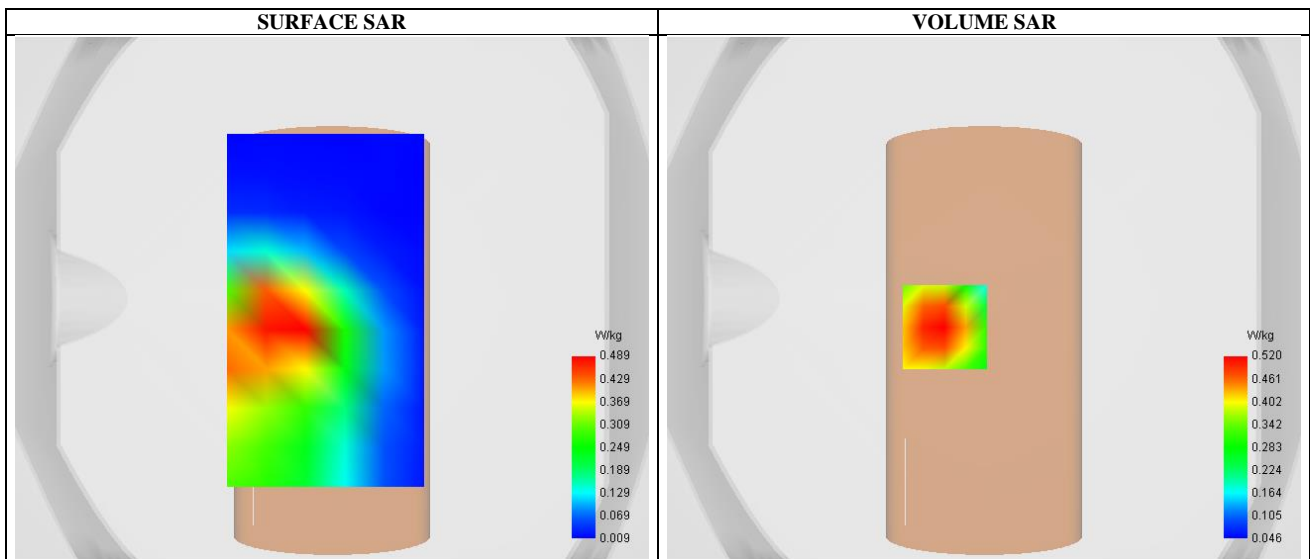
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.70
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 2.0)

B. Permittivity

Frequency (MHz)	836.599976
Relative permittivity (real part)	40.710000
Conductivity (S/m)	0.901123

C. SAR Surface and Volume

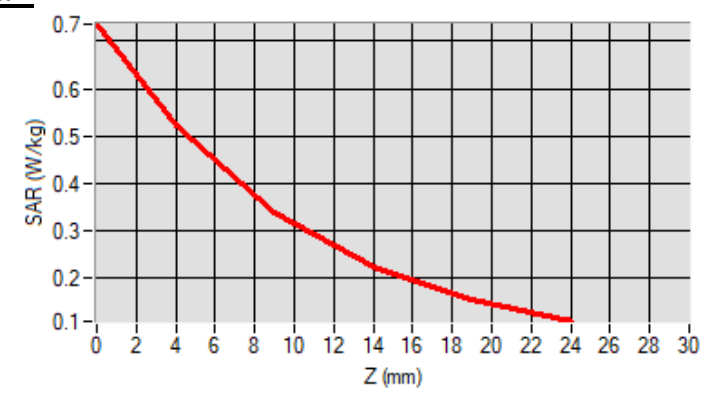


Maximum location: X=-15.00, Y=-11.00 ; SAR Peak: 0.74 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.319385
SAR 1g (W/Kg)	0.497187
Variation (%)	-3.560000

E. Z Axis Scan



SAR Measurement at CUSTOM (GPRS19004Txslots) (Body, Validation Plane)

Date of measurement: 6/11/2022

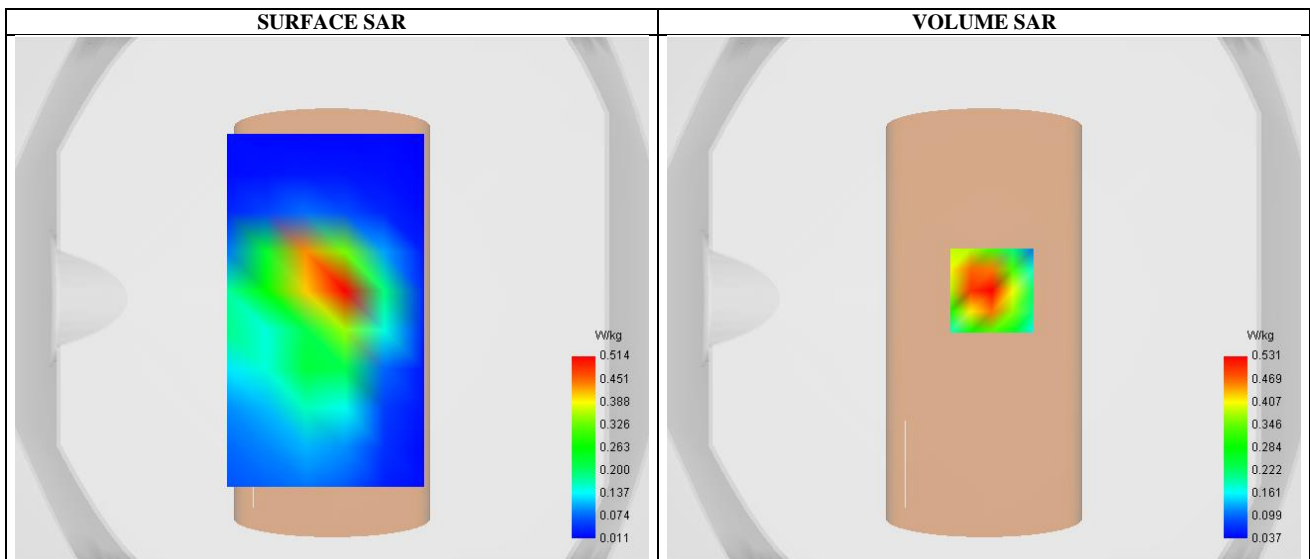
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.00
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Low
Signal	TDMA (Crest factor: 2.0)

B. Permittivity

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.220000
Conductivity (S/m)	1.360340

C. SAR Surface and Volume

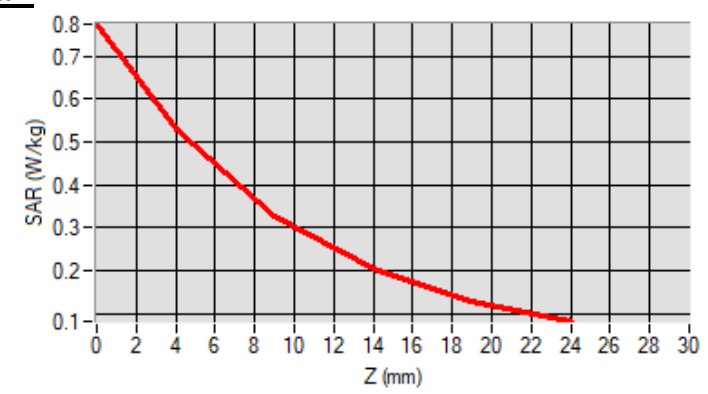


Maximum location: X=3.00, Y=3.00 ; SAR Peak: 0.79 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.291915
SAR 1g (W/Kg)	0.503396
Variation (%)	0.450000

E. Z Axis Scan



SAR Measurement at Band2 WCDMA1900 (Body, Validation Plane)

Date of measurement: 6/11/2022

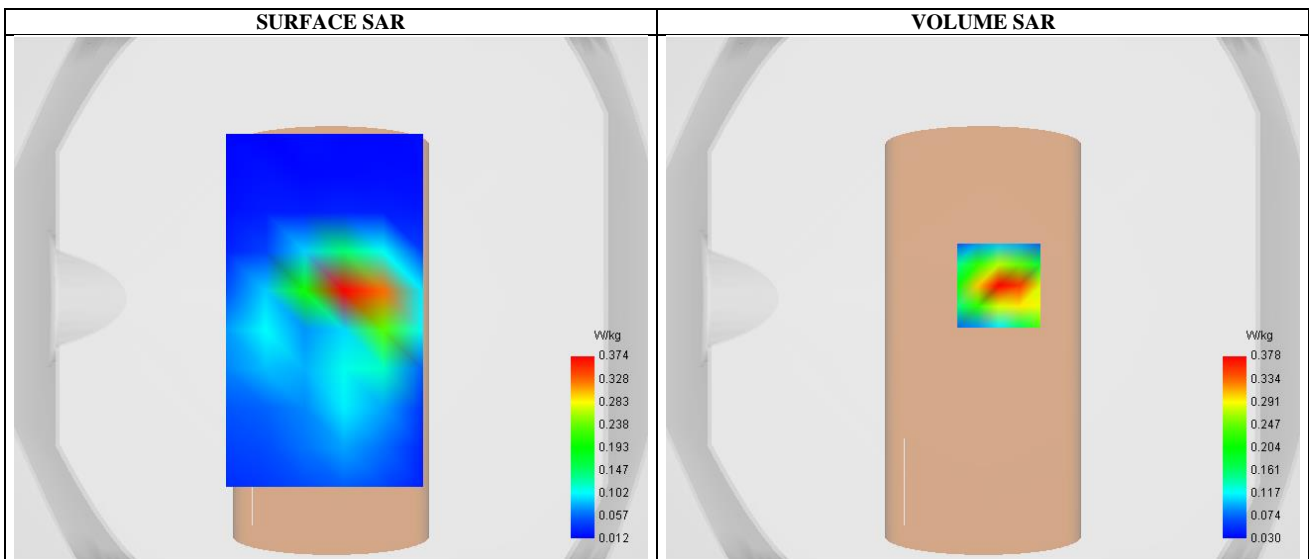
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.00
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band2_WCDMA1900
Channels	High
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1907.599976
Relative permittivity (real part)	39.410000
Conductivity (S/m)	1.376534

C. SAR Surface and Volume

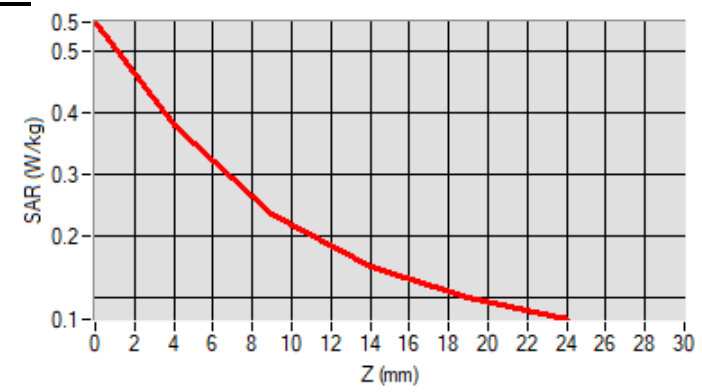


Maximum location: X=6.00, Y=5.00 ; SAR Peak: 0.55 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.196805
SAR 1g (W/Kg)	0.348894
Variation (%)	-0.850000

E. Z Axis Scan



SAR Measurement at CUSTOM (WCDMA 1700) (Body, Validation Plane)

Date of measurement: 18/11/2022

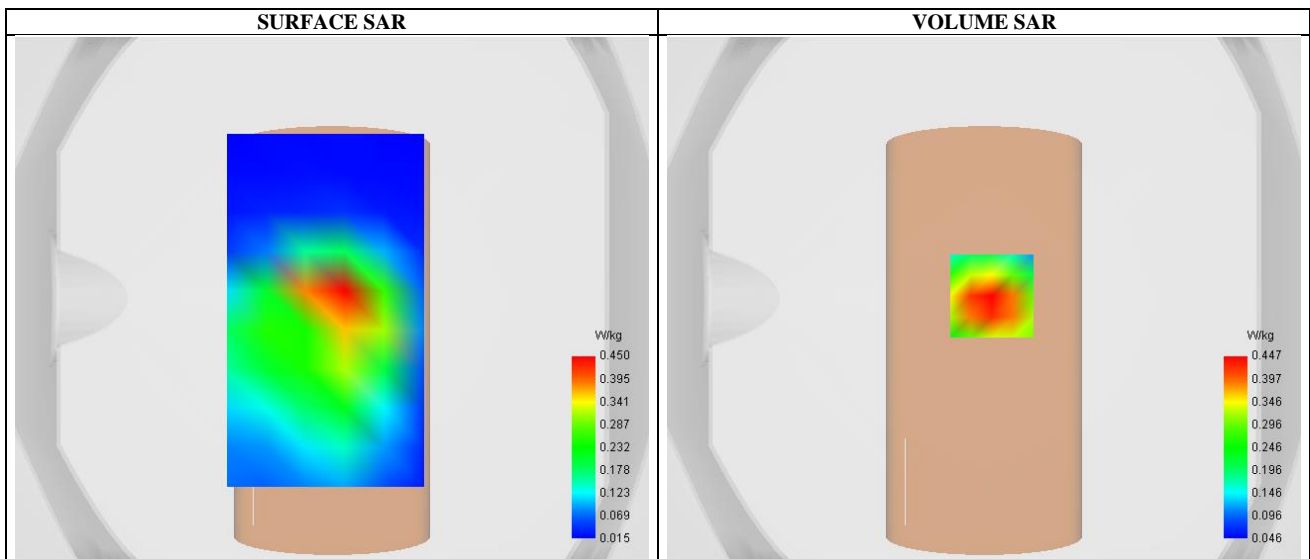
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.05
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band4_WCDMA1700
Channels	High
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1752.599976
Relative permittivity (real part)	39.694744s
Conductivity (S/m)	1.351441

C. SAR Surface and Volume

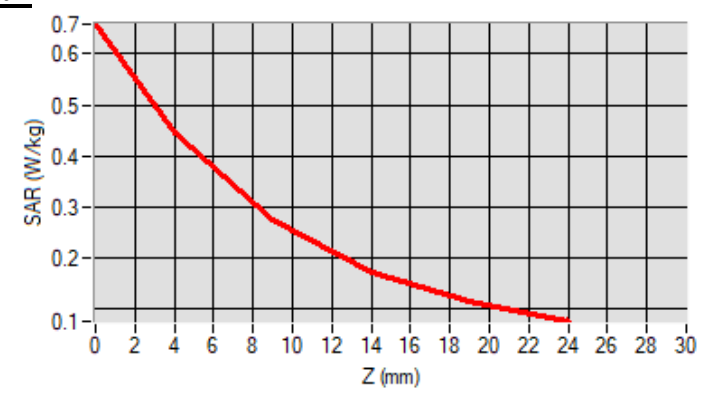


Maximum location: X=3.00, Y=1.00 ; SAR Peak: 0.56 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.211391
SAR 1g (W/Kg)	0.350728
Variation (%)	-4.070000

E. Z Axis Scan



SAR Measurement at Band5 WCDMA850 (Body, Validation Plane)

Date of measurement: 6/11/2022

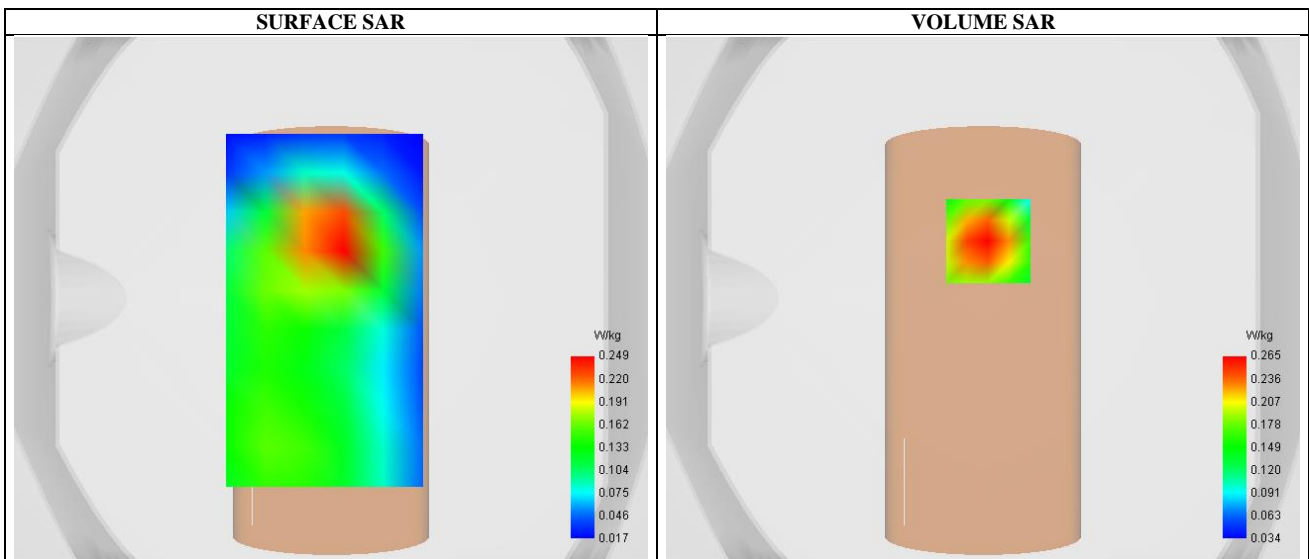
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.73
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band5_WCDMA850
Channels	High
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	846.599976
Relative permittivity (real part)	40.820000
Conductivity (S/m)	0.901724

C. SAR Surface and Volume

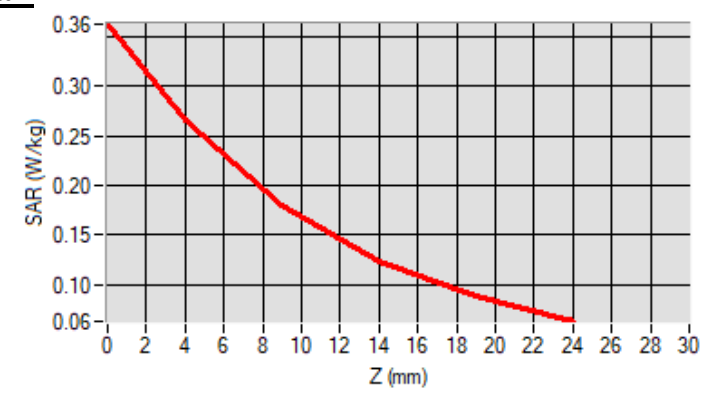


Maximum location: X=2.00, Y=22.00 ; SAR Peak: 0.36 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.161075
SAR 1g (W/Kg)	0.250937
Variation (%)	-1.980000

E. Z Axis Scan



SAR Measurement at LTE band 2 (Body, Validation Plane)

Date of measurement: 6/11/2022

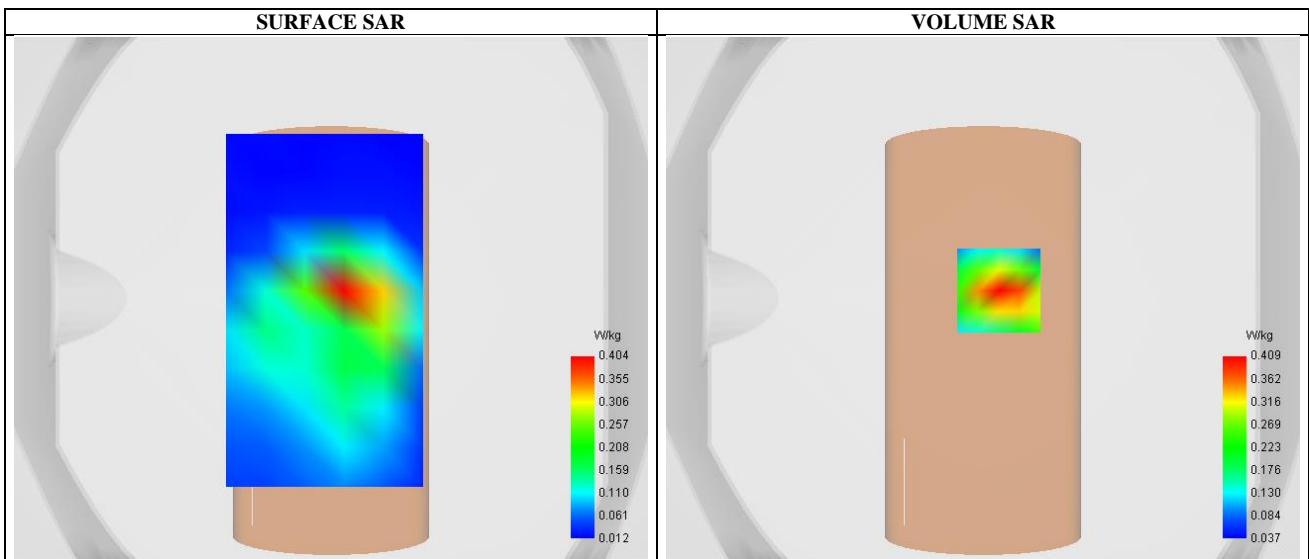
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.00
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 2
Channels	Low
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1860.000000
Relative permittivity (real part)	39.275280
Conductivity (S/m)	1.365304

C. SAR Surface and Volume

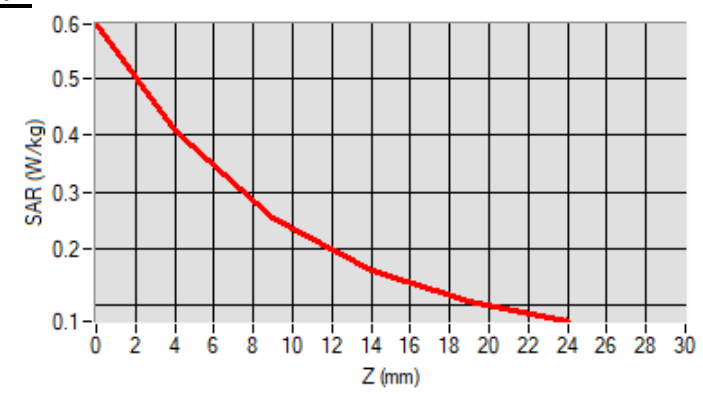


Maximum location: X=6.00, Y=3.00 ; SAR Peak: 0.60 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.216576
SAR 1g (W/Kg)	0.379131
Variation (%)	-3.610000

E. Z Axis Scan



SAR Measurement at LTE band 5 (Body, Validation Plane)

Date of measurement: 4/11/2022

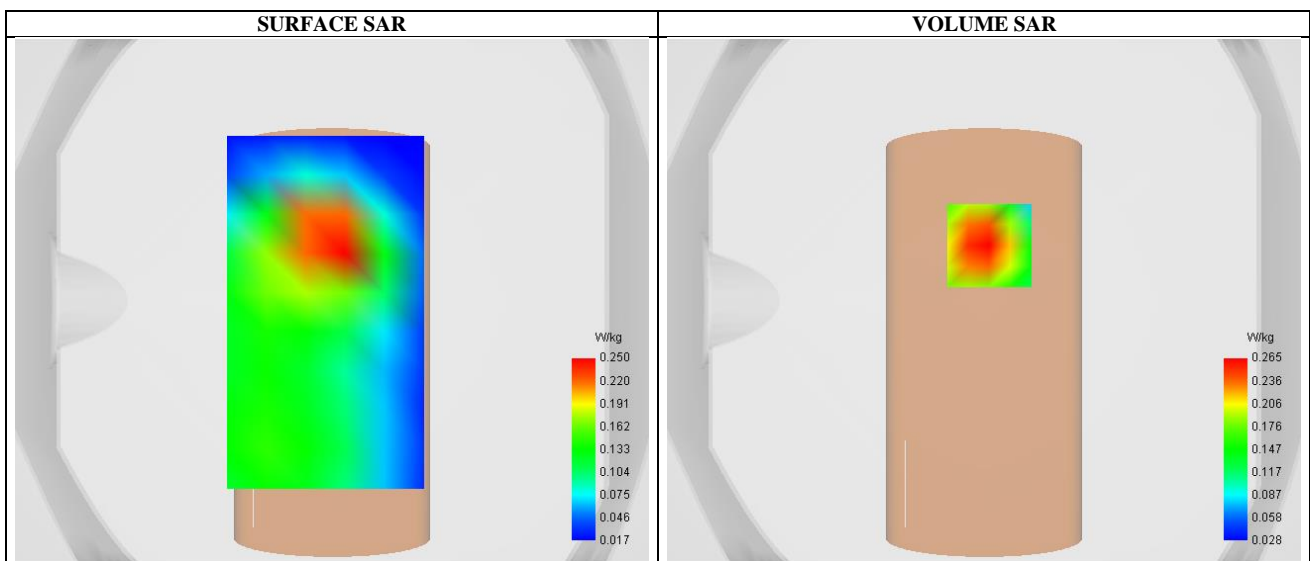
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.73
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 5
Channels	Middle
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	836.500000
Relative permittivity (real part)	40.590000
Conductivity (S/m)	0.900531

C. SAR Surface and Volume

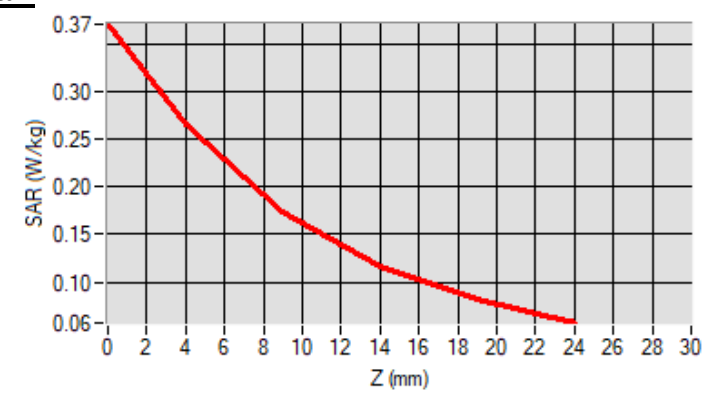


Maximum location: X=2.00, Y=21.00 ; SAR Peak: 0.37 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.159502
SAR 1g (W/Kg)	0.252326
Variation (%)	-1.640000

E. Z Axis Scan



SAR Measurement at LTE band 7 (Body, Validation Plane)

Date of measurement: 9/11/2022

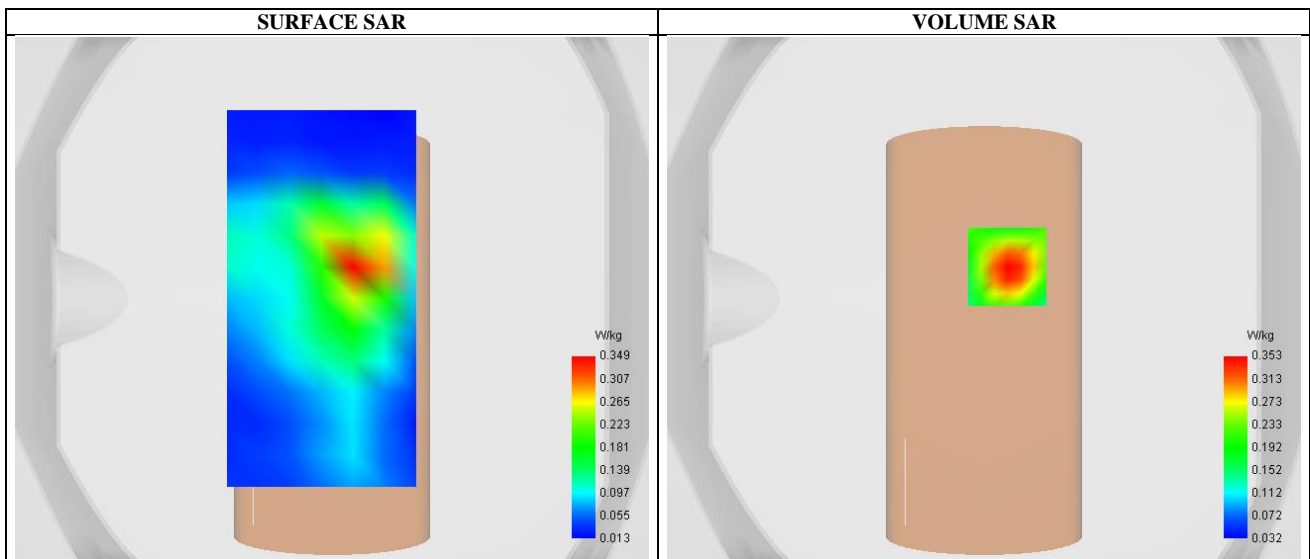
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.27
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 7
Channels	Low
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2510.000000
Relative permittivity (real part)	389.166661
Conductivity (S/m)	1.929742

C. SAR Surface and Volume

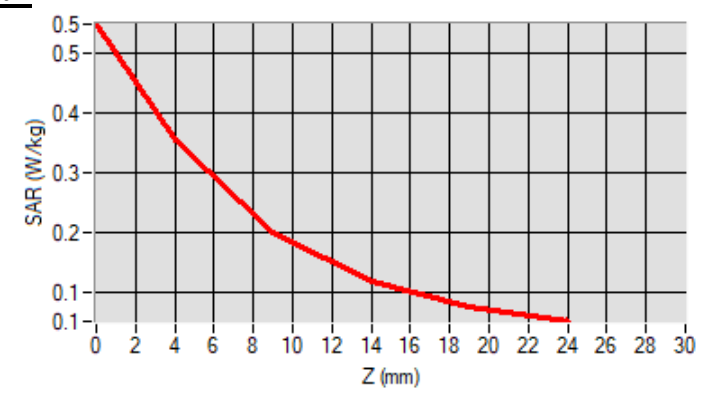


Maximum location: X=9.00, Y=12.00 ; SAR Peak: 0.55 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.182924
SAR 1g (W/Kg)	0.326212
Variation (%)	1.830000

E. Z Axis Scan



SAR Measurement at LTE band 12 (Body, Validation Plane)

Date of measurement: 4/11/2022

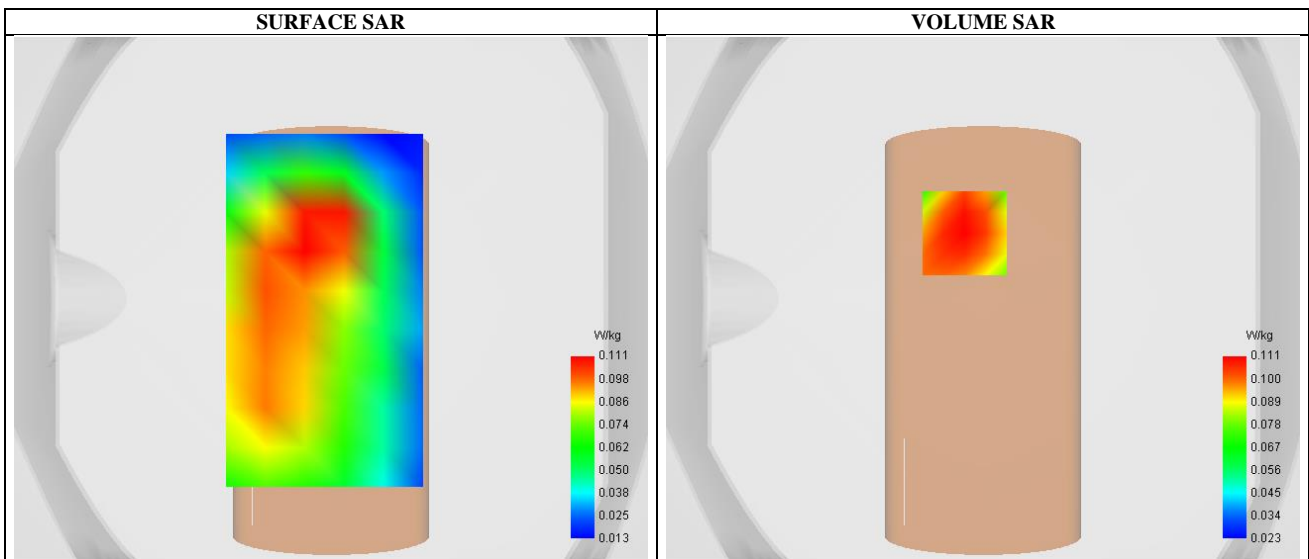
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.70
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 12
Channels	Low
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	704.000000
Relative permittivity (real part)	41.126137
Conductivity (S/m)	0.874404

C. SAR Surface and Volume

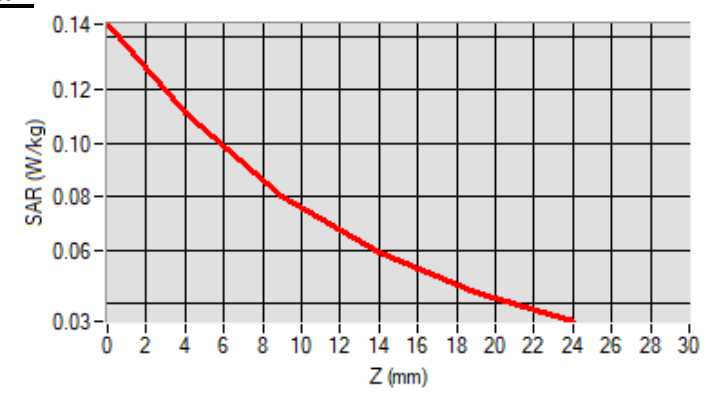


Maximum location: X=-7.00, Y=25.00 ; SAR Peak: 0.15 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.079857
SAR 1g (W/Kg)	0.109893
Variation (%)	-3.040000

E. Z Axis Scan



SAR Measurement at CUSTOM (LTE Band 41) (Body, Validation Plane)

Date of measurement: 9/11/2022

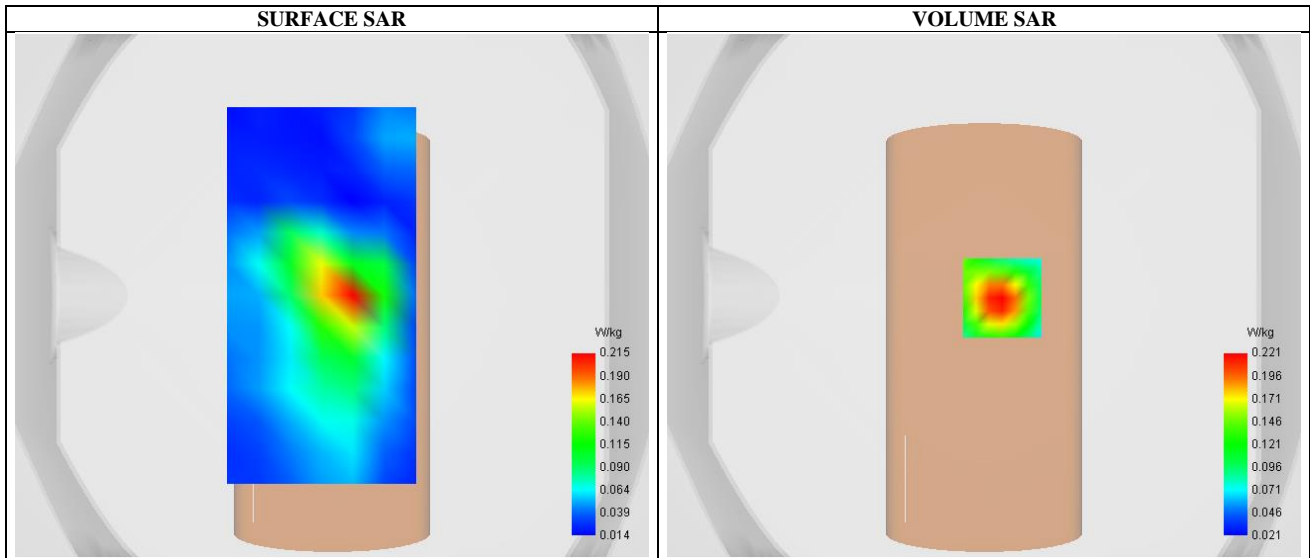
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.27
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 41
Channels	High
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2680.000000
Relative permittivity (real part)	38.263351
Conductivity (S/m)	1.952401

C. SAR Surface and Volume

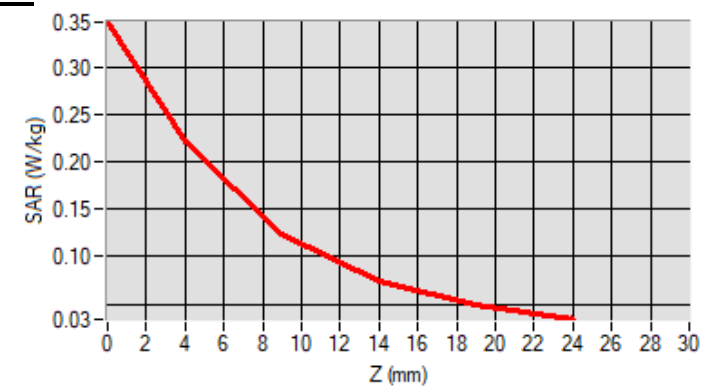


Maximum location: X=7.00, Y=-1.00 ; SAR Peak: 0.35 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.112097
SAR 1g (W/Kg)	0.203054
Variation (%)	-1.040000

E. Z Axis Scan



SAR Measurement at CUSTOM (LTE Band 66) (Body, Validation Plane)

Date of measurement: 6/11/2022

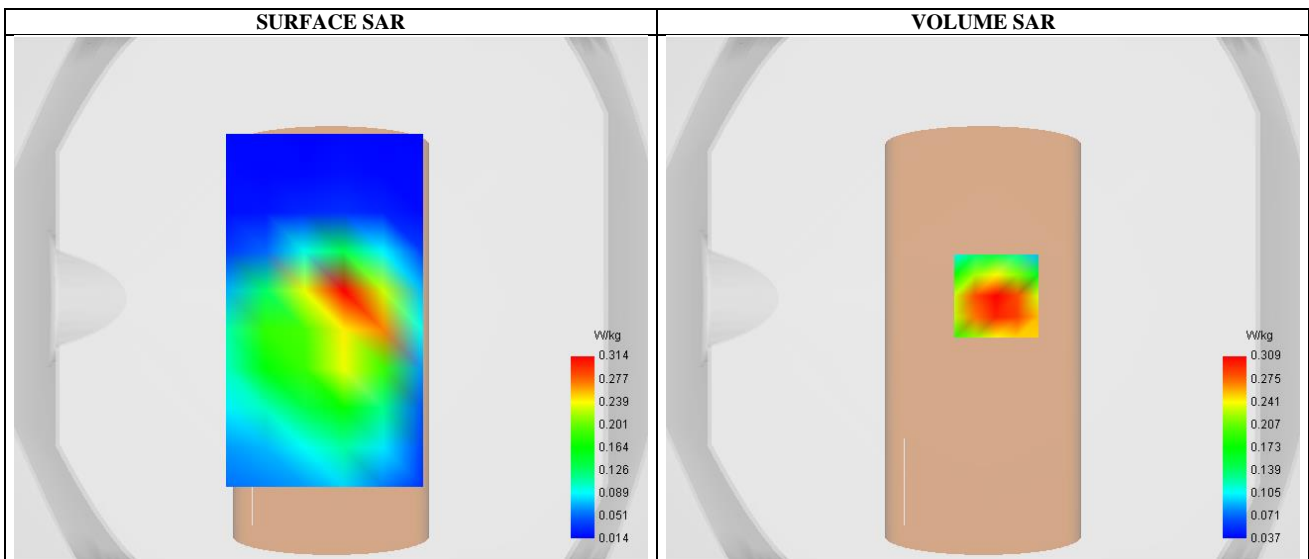
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.05
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 66
Channels	Middle
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1745.000000
Relative permittivity (real part)	39.631000
Conductivity (S/m)	1.350124

C. SAR Surface and Volume

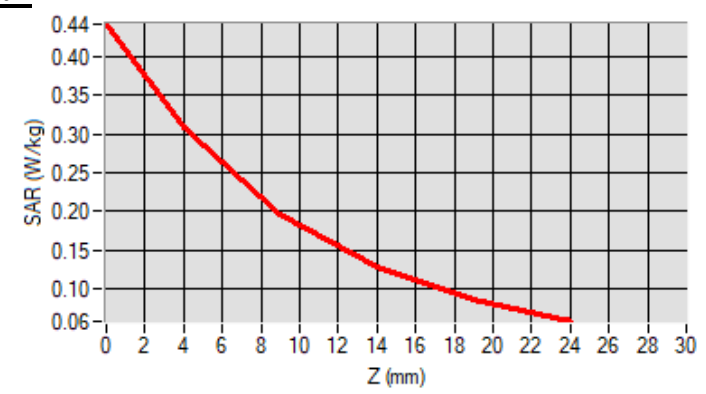


Maximum location: X=5.00, Y=1.00 ; SAR Peak: 0.45 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.182120
SAR 1g (W/Kg)	0.296443
Variation (%)	-0.210000

E. Z Axis Scan



SAR Measurement at CUSTOM (NRn5) (Body, Validation Plane)

Date of measurement: 4/11/2022

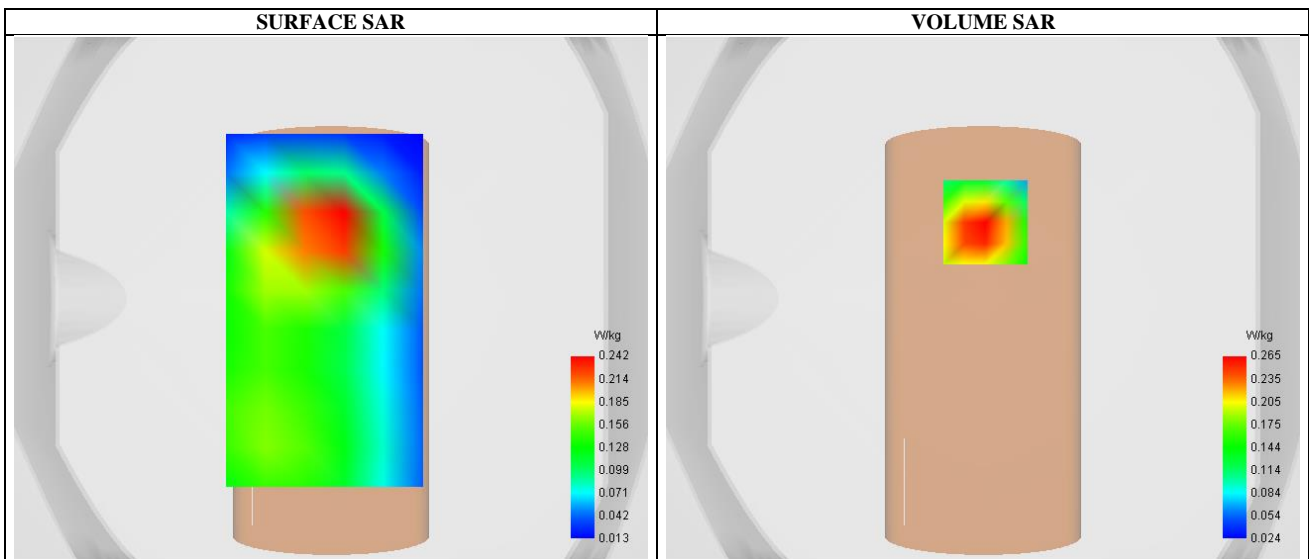
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.70
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	NR n5
Channels	Middle
Signal	NR (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	836.500000
Relative permittivity (real part)	40.700000
Conductivity (S/m)	0.891011

C. SAR Surface and Volume

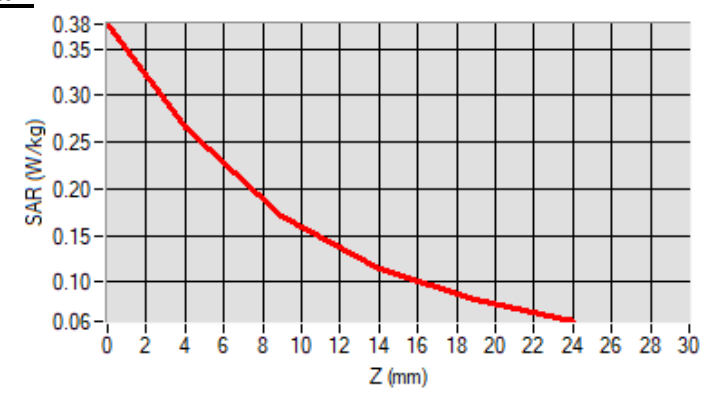


Maximum location: X=1.00, Y=29.00 ; SAR Peak: 0.38 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.158521
SAR 1g (W/Kg)	0.254545
Variation (%)	-1.080000

E. Z Axis Scan



SAR Measurement at CUSTOM (NRn7) (Body, Validation Plane)

Date of measurement: 9/11/2022

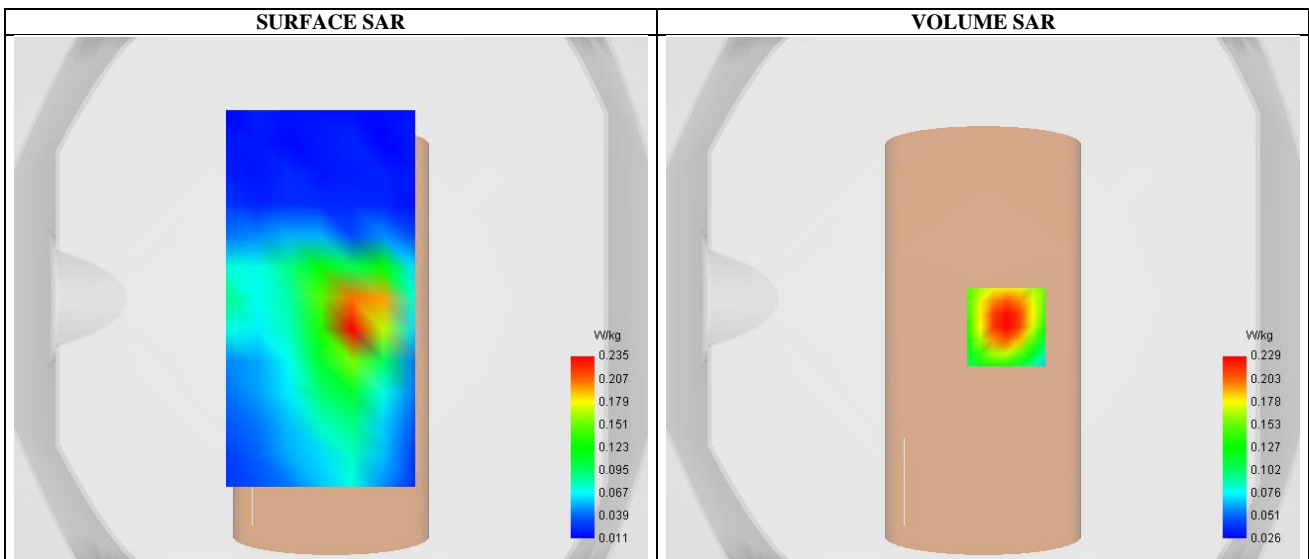
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.27
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	NR n7
Channels	High
Signal	NR (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2560.000000
Relative permittivity (real part)	38.112641
Conductivity (S/m)	1.927413

C. SAR Surface and Volume

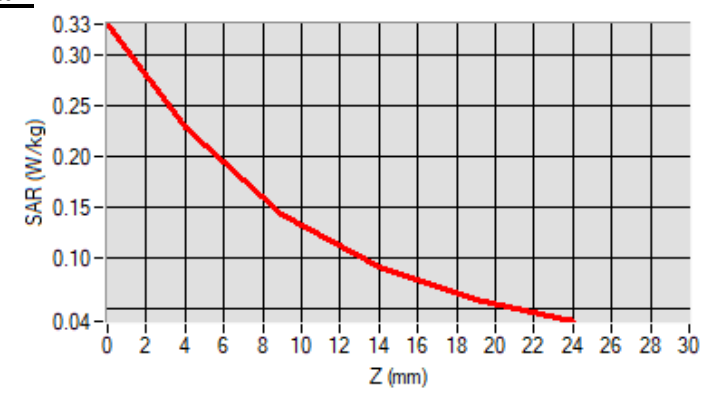


Maximum location: X=9.00, Y=-11.00 ; SAR Peak: 0.34 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.125286
SAR 1g (W/Kg)	0.214206
Variation (%)	-4.130000

E. Z Axis Scan



SAR Measurement at CUSTOM (NR n12) (Body, Validation Plane)

Date of measurement: 4/11/2022

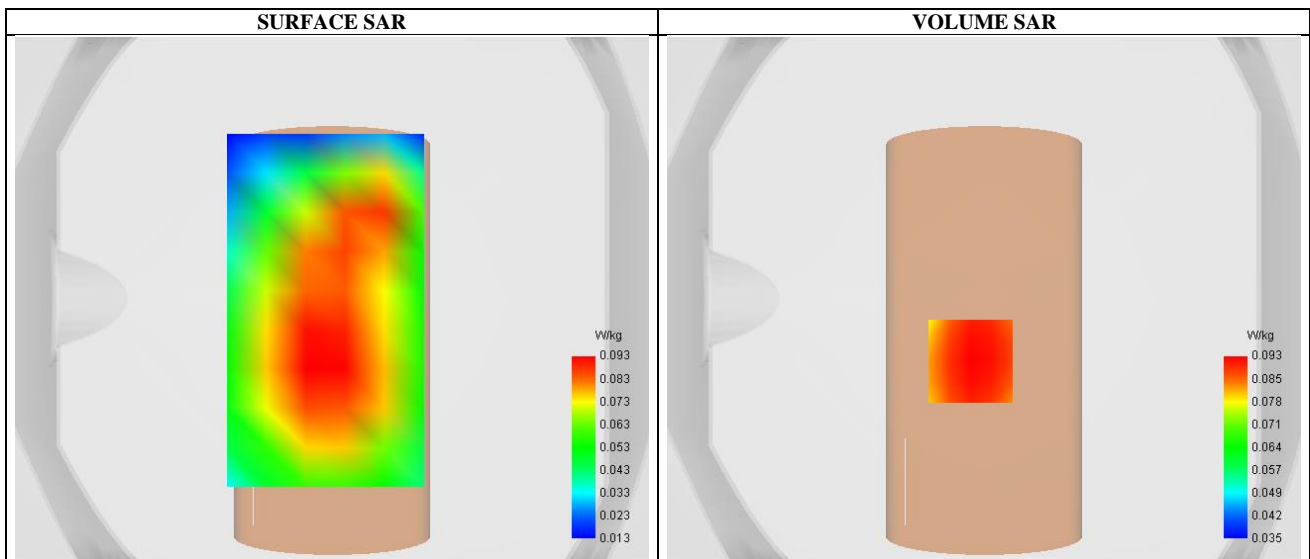
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.70
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	NR n12
Channels	Low
Signal	NR (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	706.500000
Relative permittivity (real part)	41.120455
Conductivity (S/m)	0.874041

C. SAR Surface and Volume

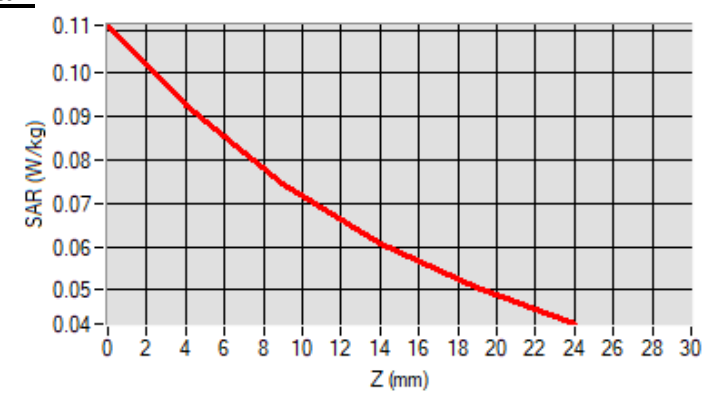


Maximum location: X=-5.00, Y=-24.00 ; SAR Peak: 0.10 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.066955
SAR 1g (W/Kg)	0.084525
Variation (%)	-0.520000

E. Z Axis Scan



SAR Measurement at CUSTOM (NR n41) (Body, Validation Plane)

Date of measurement: 9/11/2022

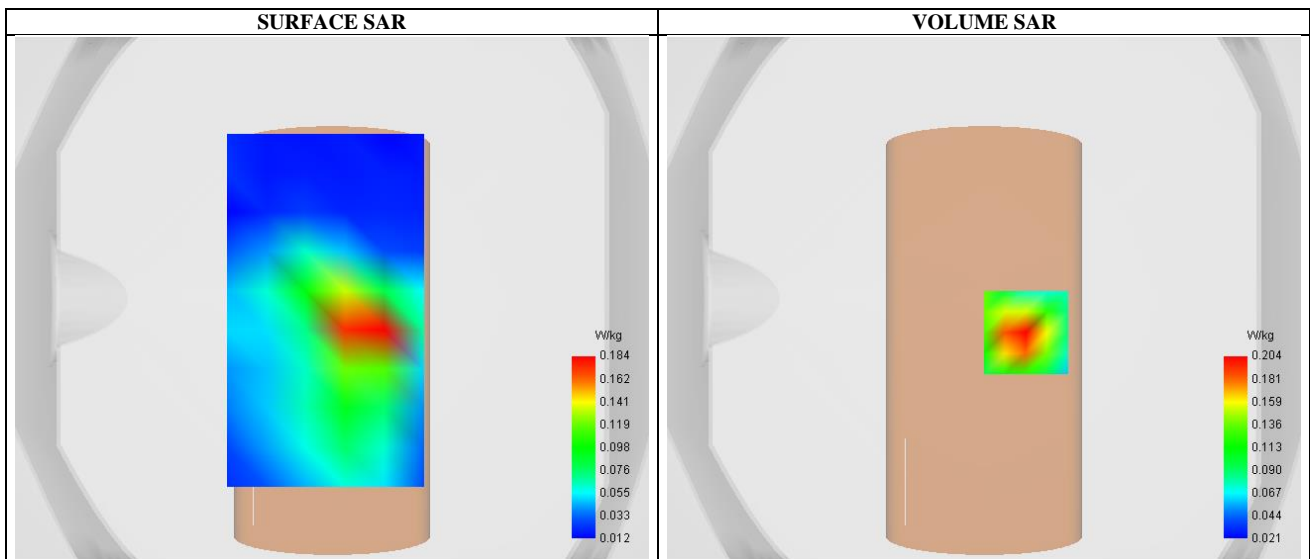
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.27
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	NR n41
Channels	Middle
Signal	NR (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2592.990000
Relative permittivity (real part)	38.160000
Conductivity (S/m)	1.937011

C. SAR Surface and Volume

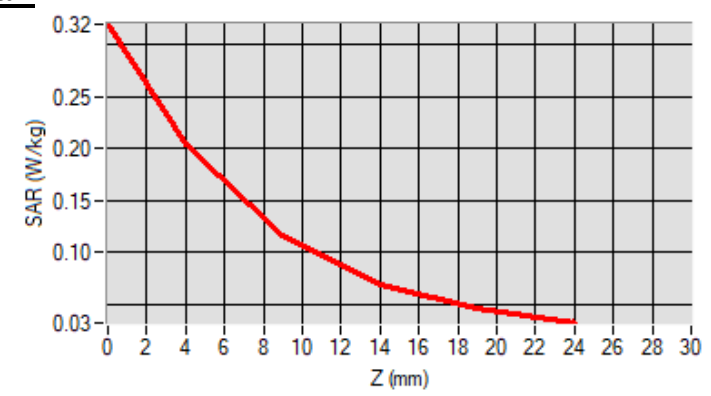


Maximum location: X=16.00, Y=-13.00 ; SAR Peak: 0.32 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.106026
SAR 1g (W/Kg)	0.192421
Variation (%)	-0.310000

E. Z Axis Scan



SAR Measurement at CUSTOM (NR n66) (Body, Validation Plane)

Date of measurement: 6/11/2022

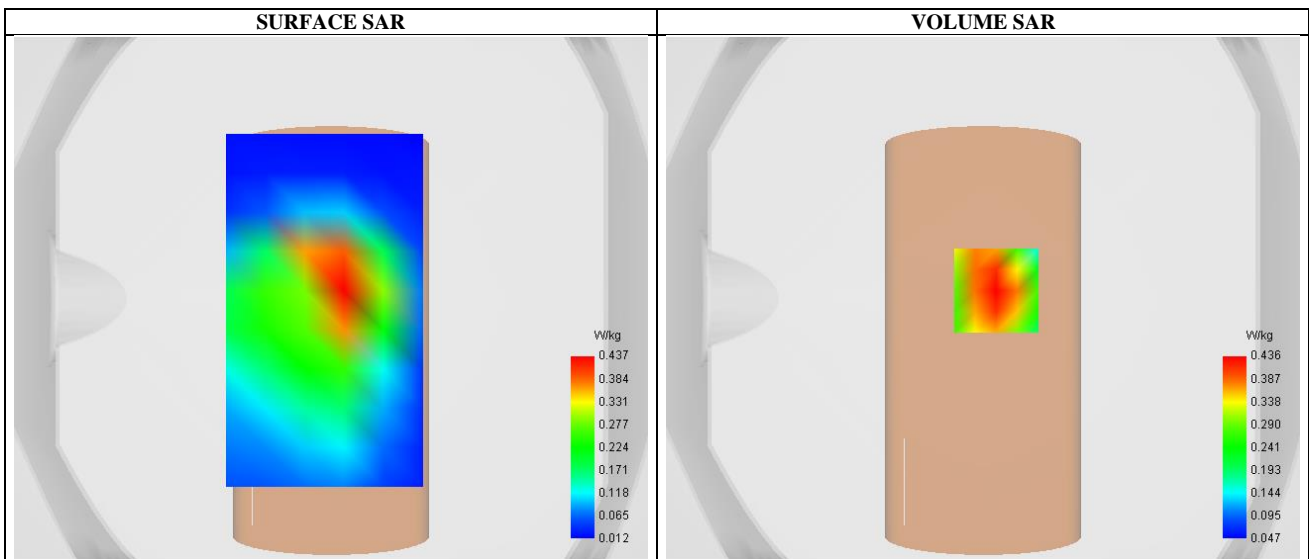
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.05
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	NR n66
Channels	High
Signal	NR (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1760.000000
Relative permittivity (real part)	39.704544
Conductivity (S/m)	1.350225

C. SAR Surface and Volume

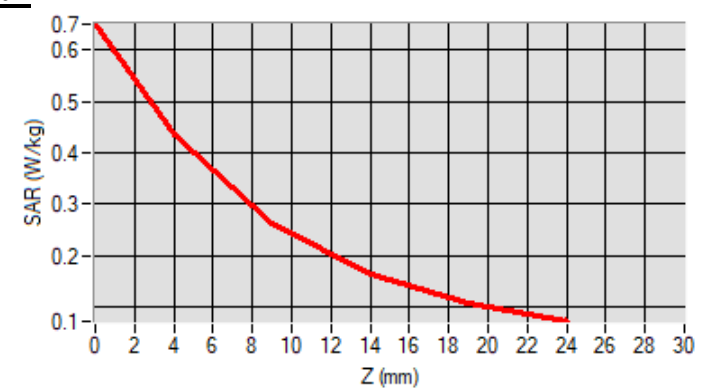


Maximum location: X=5.00, Y=3.00 ; SAR Peak: 0.53 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.207451
SAR 1g (W/Kg)	0.337665
Variation (%)	-1.670000

E. Z Axis Scan



SAR Measurement at CUSTOM (NR n77) (Body, Validation Plane)

Date of measurement: 11/11/2022

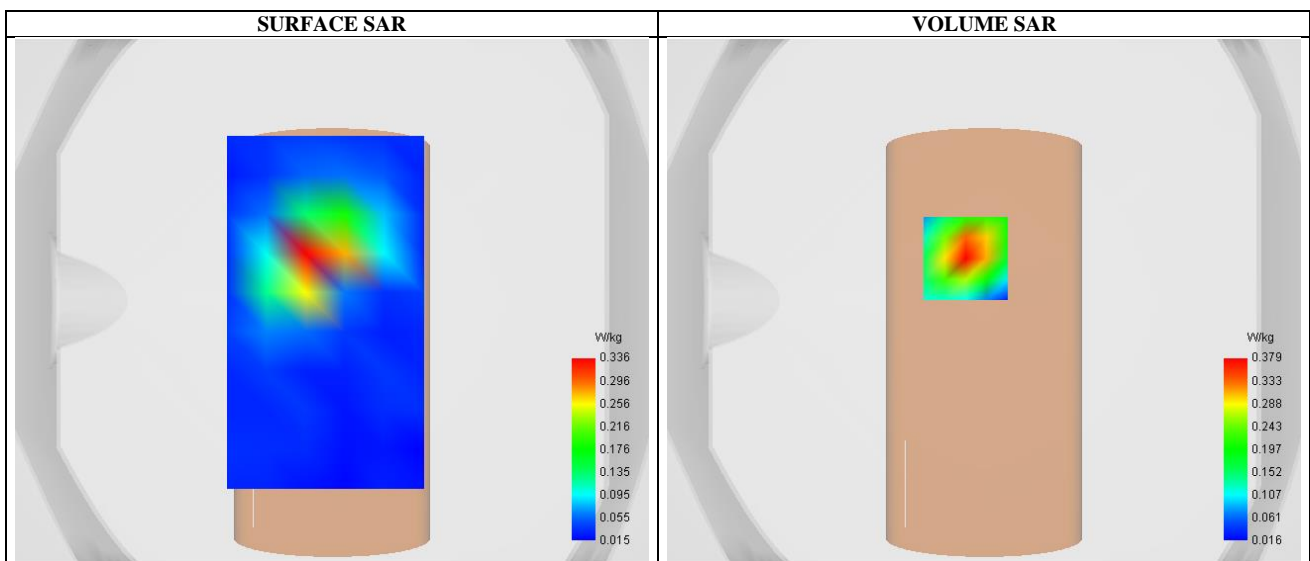
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.10
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=5mm dy=5mm dz=4mm,Complete
Phantom	Validation plane
Device Position	Body
Band	NR n77
Channels	Middle
Signal	NR (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	3500.010000
Relative permittivity (real part)	38.781230
Conductivity (S/m)	2.930125

C. SAR Surface and Volume

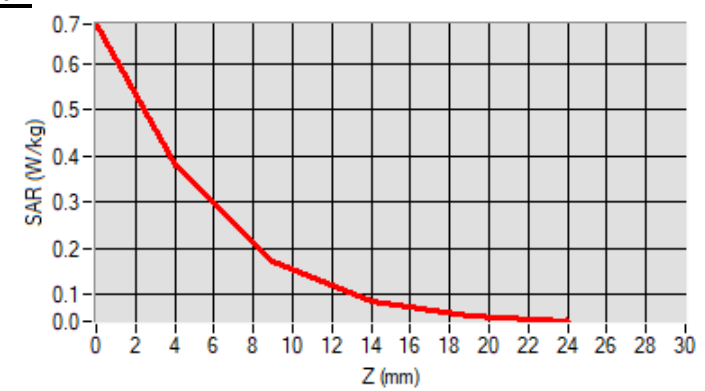


Maximum location: X=-7.00, Y=16.00 ; SAR Peak: 0.69 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.171632
SAR 1g (W/Kg)	0.355669
Variation (%)	1.000000

E. Z Axis Scan



SAR Measurement at CUSTOM (NR n77) (Body, Validation Plane)

Date of measurement: 11/11/2022

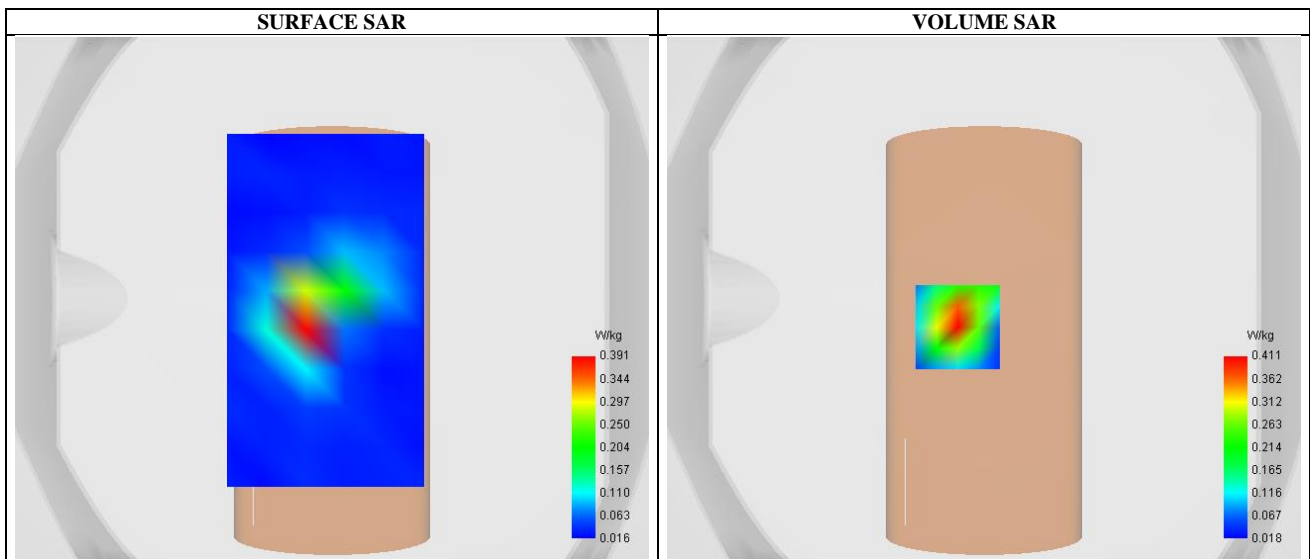
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.41
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=5mm dy=5mm dz=4mm,Complete
Phantom	Validation plane
Device Position	Body
Band	NR n77
Channels	High
Signal	NR (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	3930.000000
Relative permittivity (real part)	38.124044
Conductivity (S/m)	3.361021

C. SAR Surface and Volume

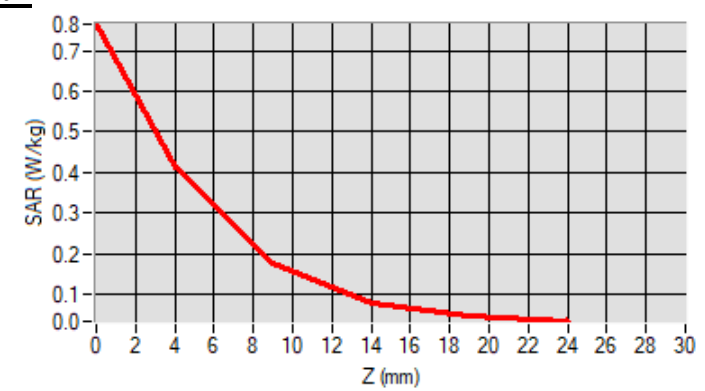


Maximum location: X=-10.00, Y=-11.00 ; SAR Peak: 0.78 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.169556
SAR 1g (W/Kg)	0.381211
Variation (%)	1.010000

E. Z Axis Scan



SAR Measurement at IEEE 802.11b ISM (Body, Validation Plane)

Date of measurement: 9/11/2022

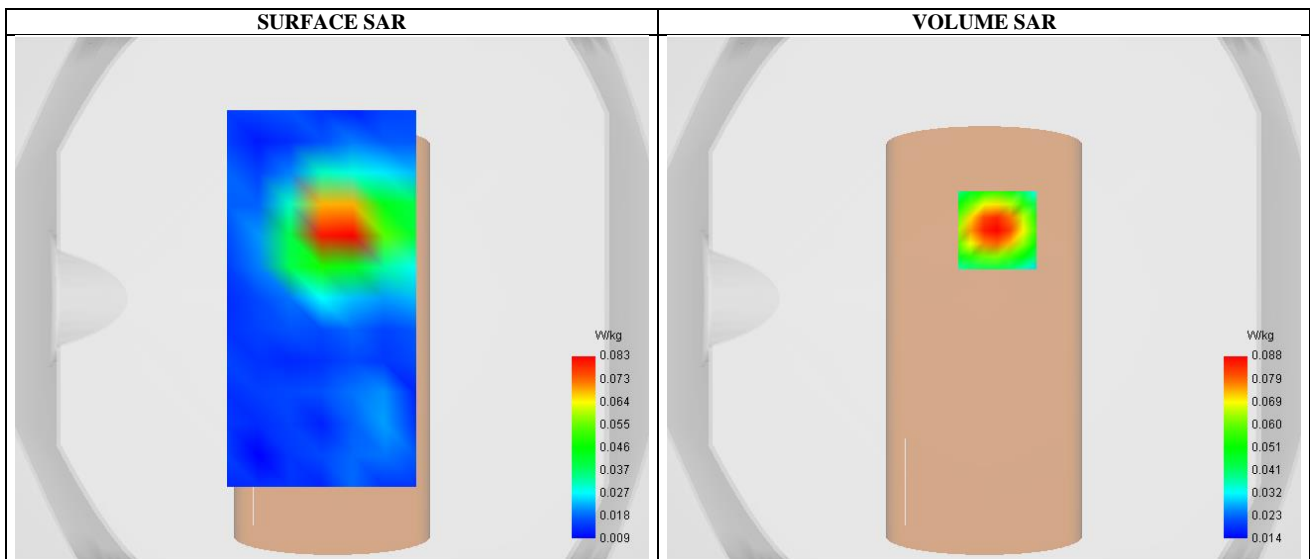
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.46
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2437.000000
Relative permittivity (real part)	38.670012
Conductivity (S/m)	1.788081

C. SAR Surface and Volume

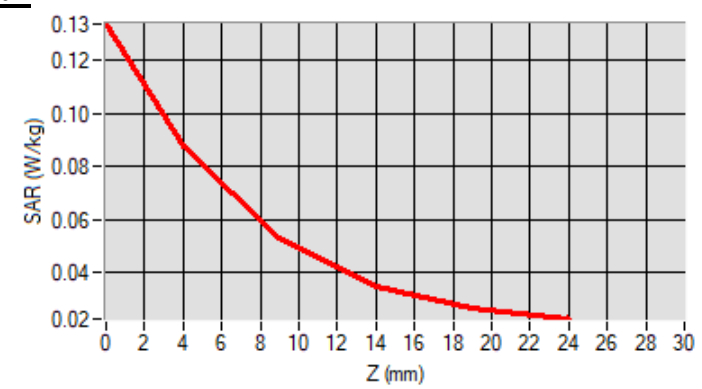


Maximum location: X=5.00, Y=26.00 ; SAR Peak: 0.13 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.049302
SAR 1g (W/Kg)	0.081728
Variation (%)	0.760000

E. Z Axis Scan



SAR Measurement at CUSTOM (5.2GHz 802.11a) (Body, Validation Plane)

Date of measurement: 14/11/2022

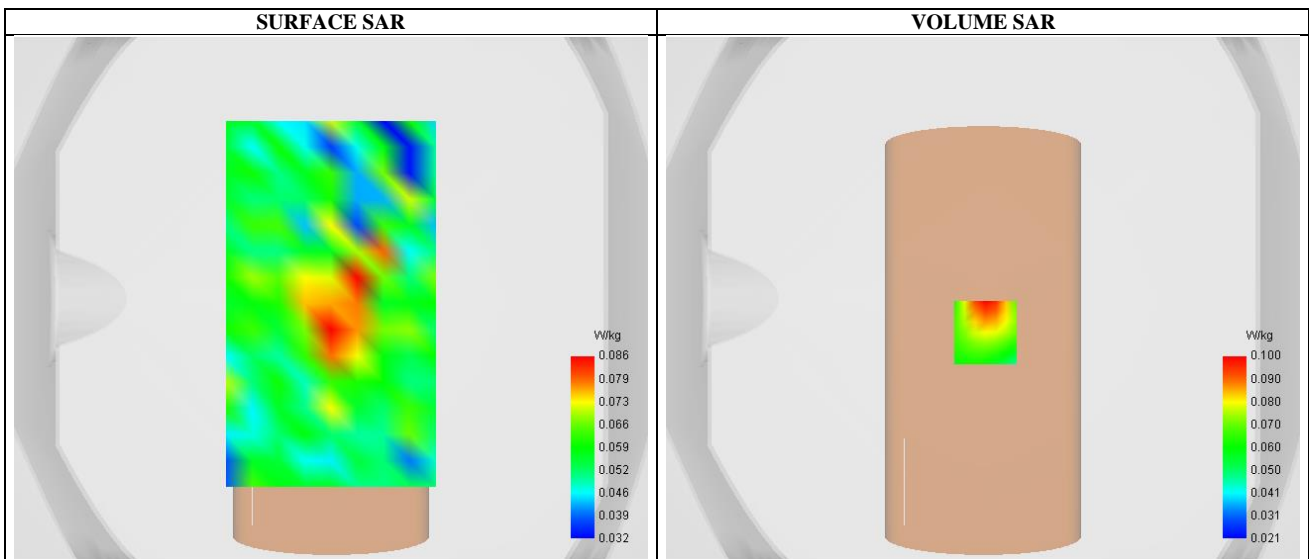
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.71
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11a
Channels	High
Signal	IEEE802.a (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	5240.000000
Relative permittivity (real part)	37.151564
Conductivity (S/m)	4.735201

C. SAR Surface and Volume

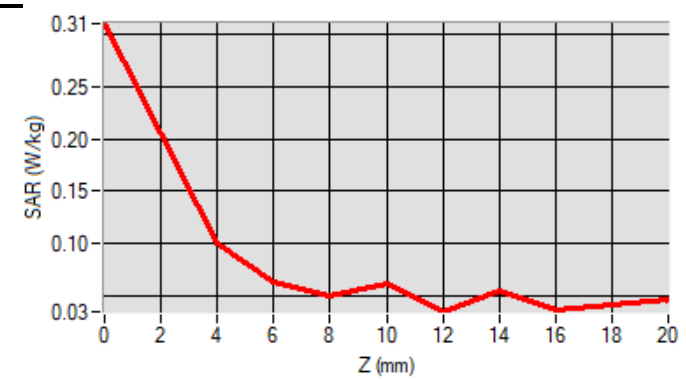


Maximum location: X=1.00, Y=-13.00 ; SAR Peak: 0.14 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.052696
SAR 1g (W/Kg)	0.067462
Variation (%)	-4.250000

E. Z Axis Scan



SAR Measurement at CUSTOM (5.8GHz 802.11a) (Body, Validation Plane)

Date of measurement: 14/11/2022

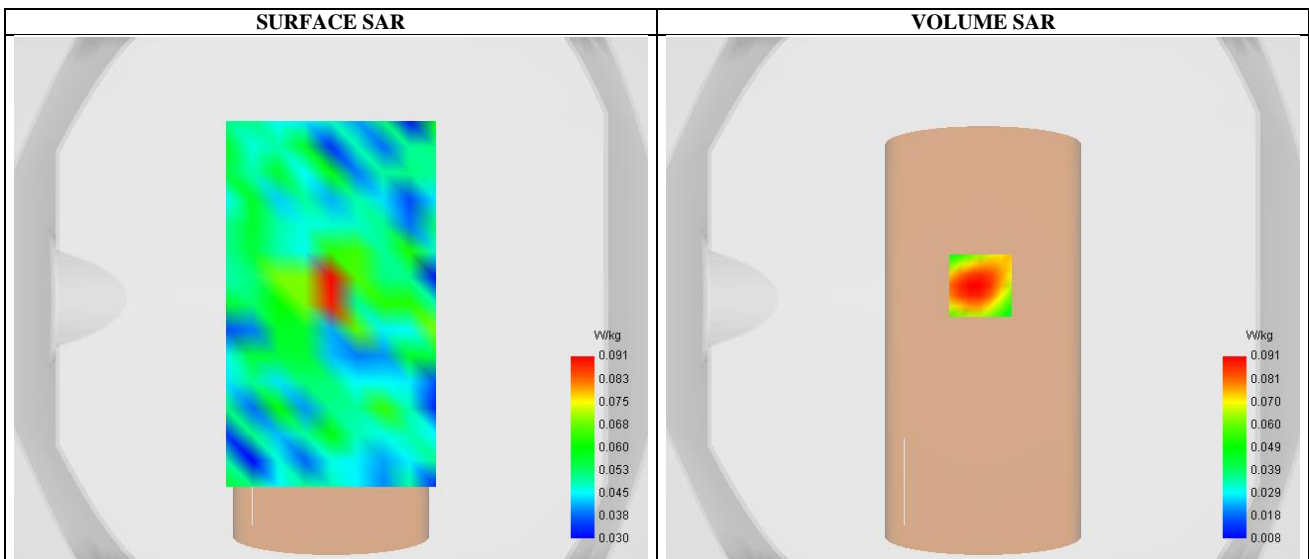
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.94
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11a
Channels	Middle
Signal	IEEE802.a (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	5785.000000
Relative permittivity (real part)	35.101241
Conductivity (S/m)	5.214763

C. SAR Surface and Volume

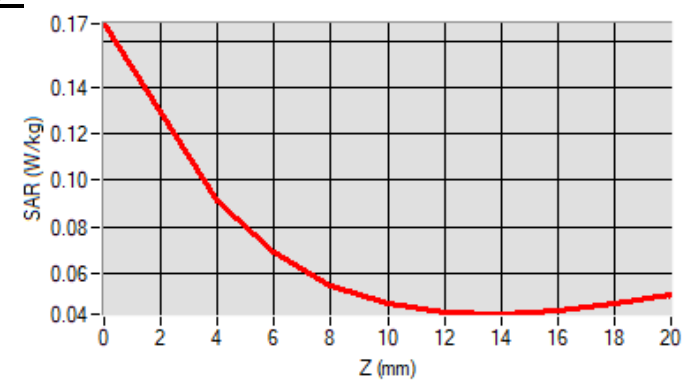


Maximum location: X=-1.00, Y=5.00 ; SAR Peak: 0.12 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.053456
SAR 1g (W/Kg)	0.075017
Variation (%)	-0.620000

E. Z Axis Scan



SAR Measurement at Bluetooth (Body, Validation Plane)

Date of measurement: 9/11/2022

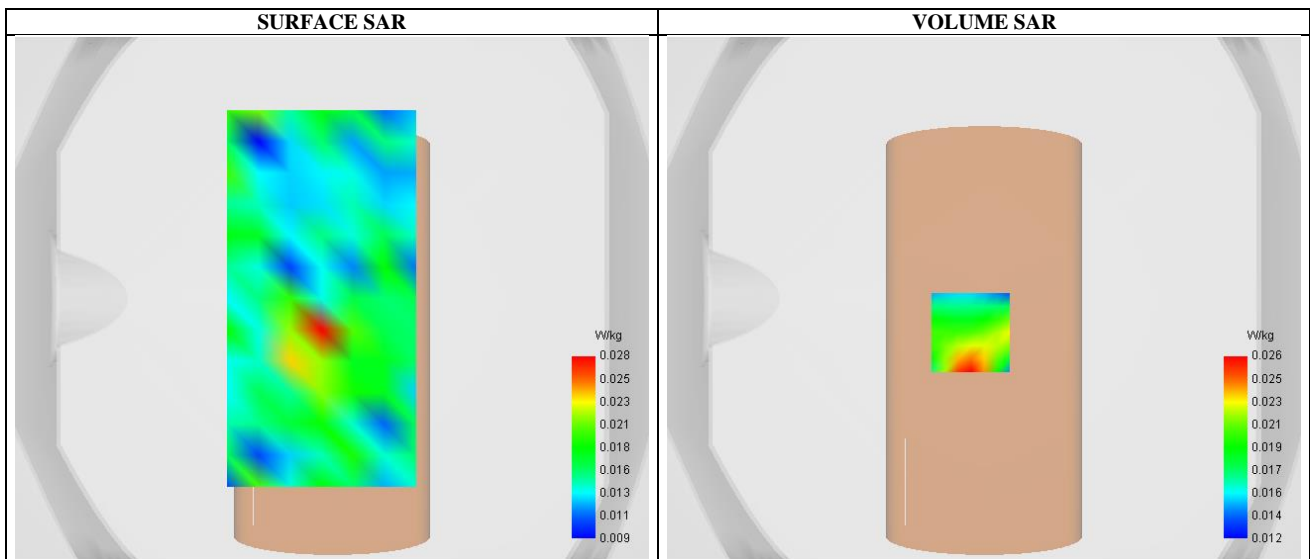
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.46
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Bluetooth
Channels	High
Signal	Bluetooth (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2480.000000
Relative permittivity (real part)	39.217999
Conductivity (S/m)	1.791558

C. SAR Surface and Volume

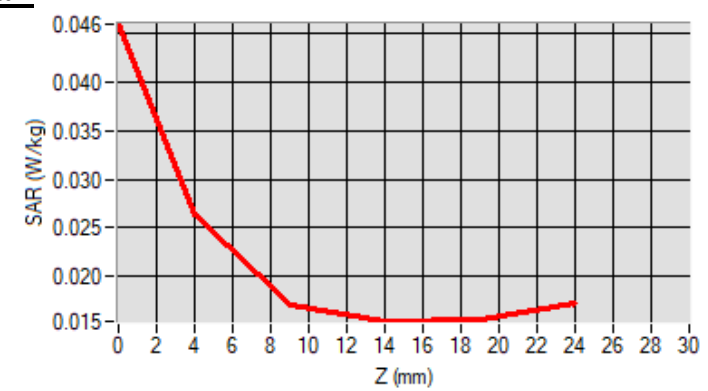


Maximum location: X=-5.00, Y=-13.00 ; SAR Peak: 0.04 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.018456
SAR 1g (W/Kg)	0.023471
Variation (%)	3.740000

E. Z Axis Scan



SAR Measurement at CUSTOM (WCDMA 1700) (Body, Validation Plane)

Date of measurement: 6/11/2022

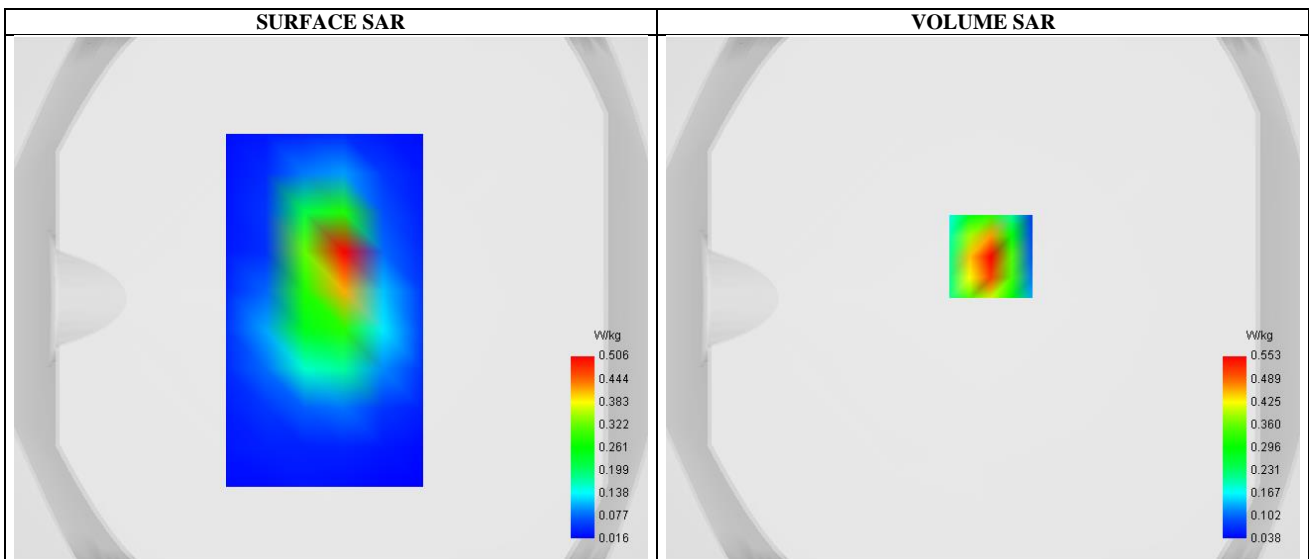
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.05
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band4_WCDMA1700
Channels	High
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1752.599976
Relative permittivity (real part)	39.694744s
Conductivity (S/m)	1.351441

C. SAR Surface and Volume

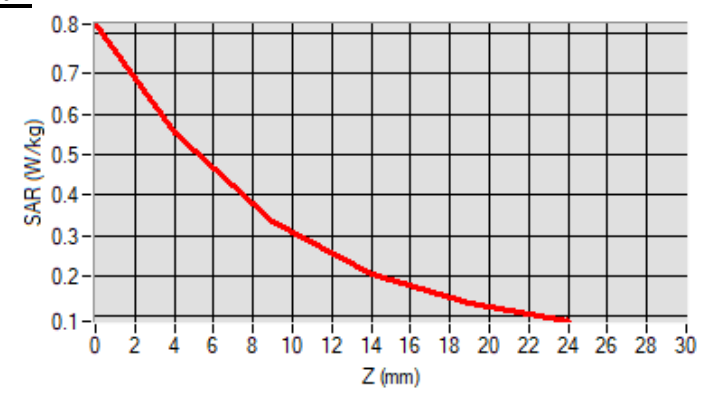


Maximum location: X=3.00, Y=16.00 ; SAR Peak: 0.69 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.236157
SAR 1g (W/Kg)	0.422038
Variation (%)	-2.860000

E. Z Axis Scan



SAR Measurement at LTE band 2 (Body, Validation Plane)

Date of measurement: 6/11/2022

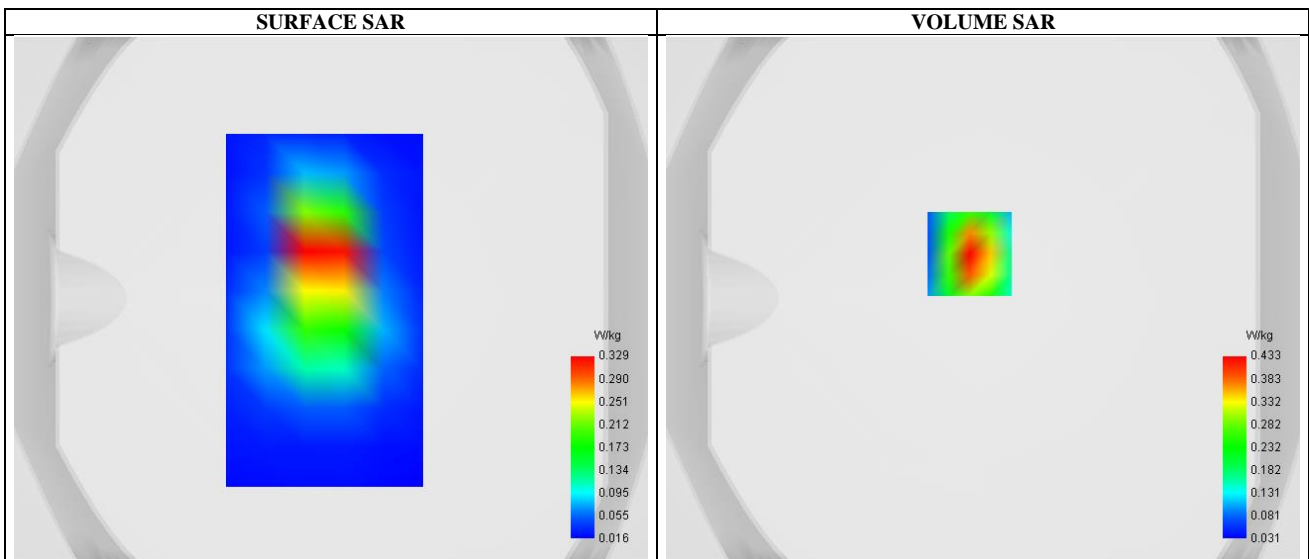
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.00
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 2
Channels	Low
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1860.000000
Relative permittivity (real part)	39.275280
Conductivity (S/m)	1.365304

C. SAR Surface and Volume

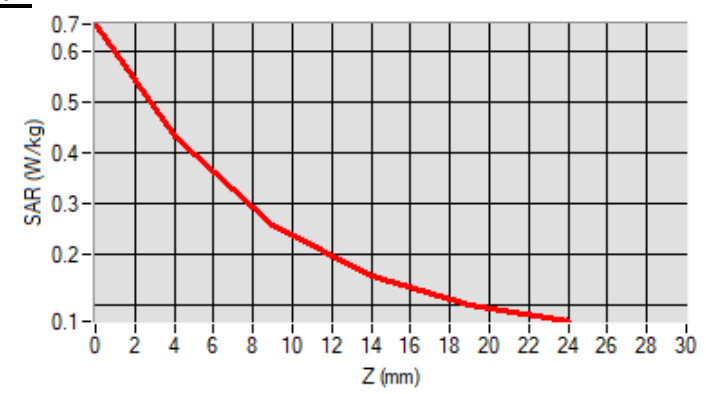


Maximum location: X=-5.00, Y=17.00 ; SAR Peak: 0.66 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.217874
SAR 1g (W/Kg)	0.400762
Variation (%)	-3.890000

E. Z Axis Scan



SAR Measurement at CUSTOM (LTE Band 66) (Body, Validation Plane)

Date of measurement: 6/11/2022

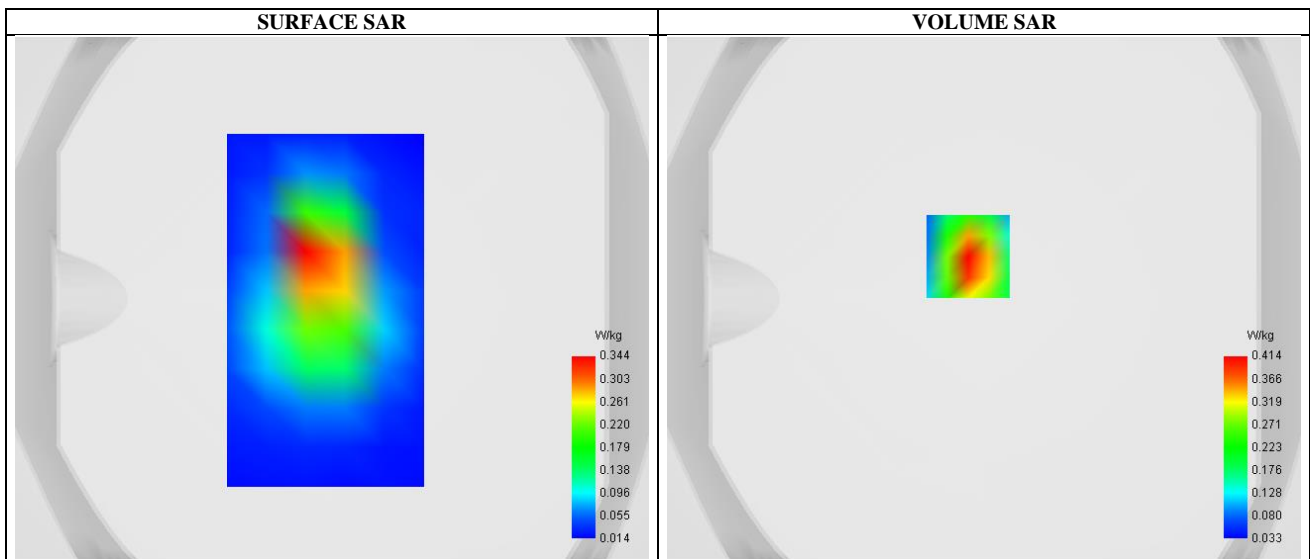
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.05
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 66
Channels	Middle
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1745.000000
Relative permittivity (real part)	39.631000
Conductivity (S/m)	1.350124

C. SAR Surface and Volume

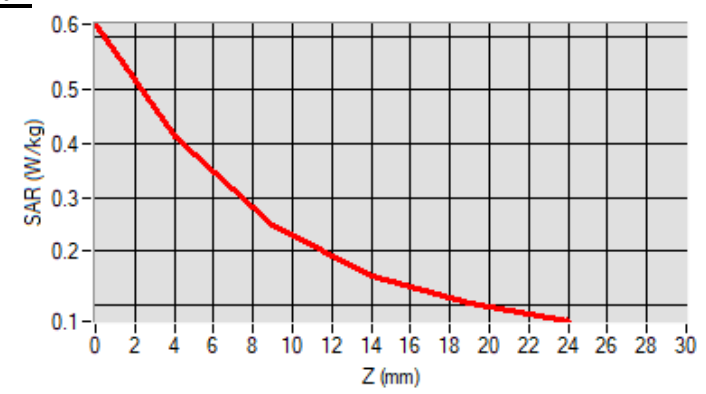


Maximum location: X=-6.00, Y=16.00 ; SAR Peak: 0.63 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.216071
SAR 1g (W/Kg)	0.386902
Variation (%)	-0.190000

E. Z Axis Scan



SAR Measurement at CUSTOM (NR n66) (Body, Validation Plane)

Date of measurement: 6/11/2022

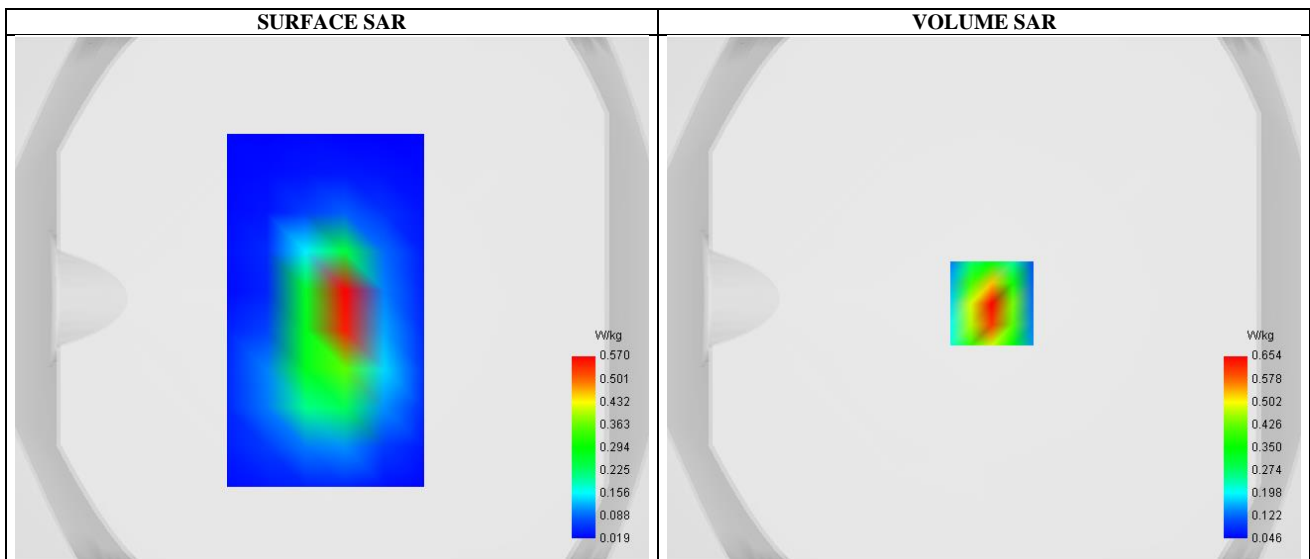
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	2.05
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	NR n66
Channels	High
Signal	NR (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1760.000000
Relative permittivity (real part)	39.704544
Conductivity (S/m)	1.350225

C. SAR Surface and Volume

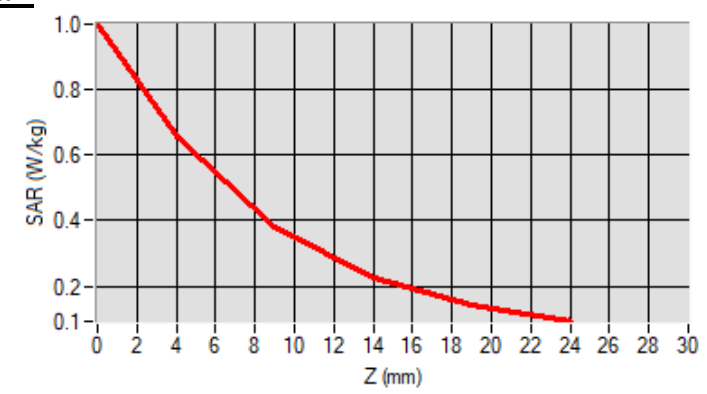


Maximum location: X=3.00, Y=-2.00 ; SAR Peak: 0.82 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.264959
SAR 1g (W/Kg)	0.488550
Variation (%)	-0.170000

E. Z Axis Scan



SAR Measurement at CUSTOM (5.2GHz 802.11a) (Body, Validation Plane)

Date of measurement: 14/11/2022

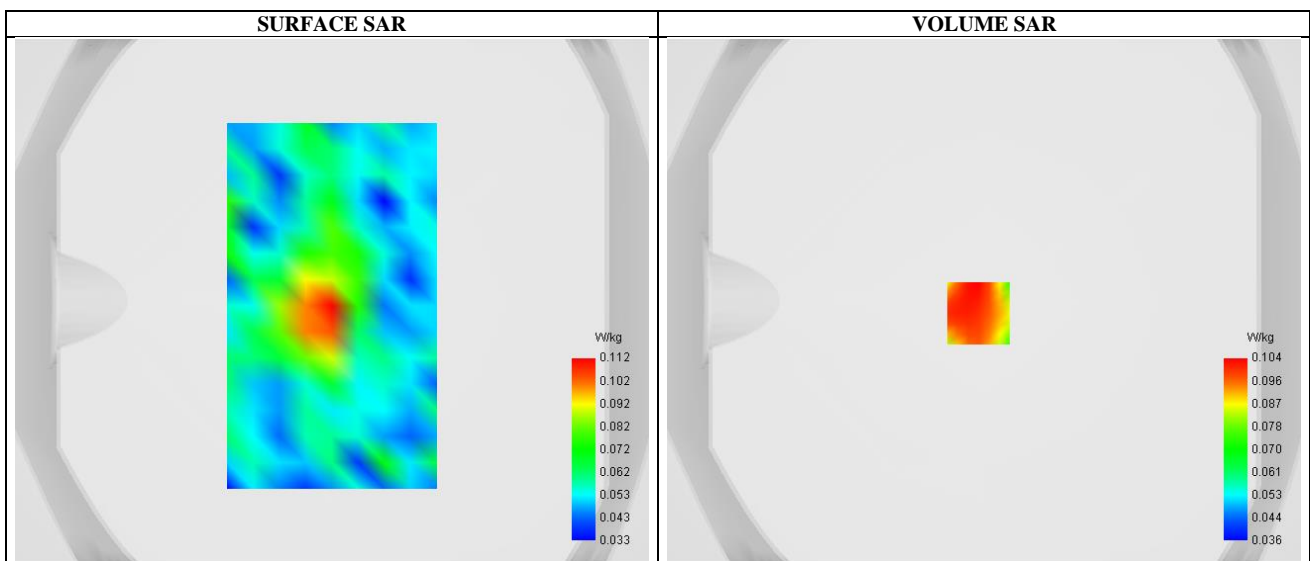
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.71
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE802.11a
Channels	High
Signal	IEEE802.11a (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	5240.000000
Relative permittivity (real part)	37.151564
Conductivity (S/m)	4.735201

C. SAR Surface and Volume

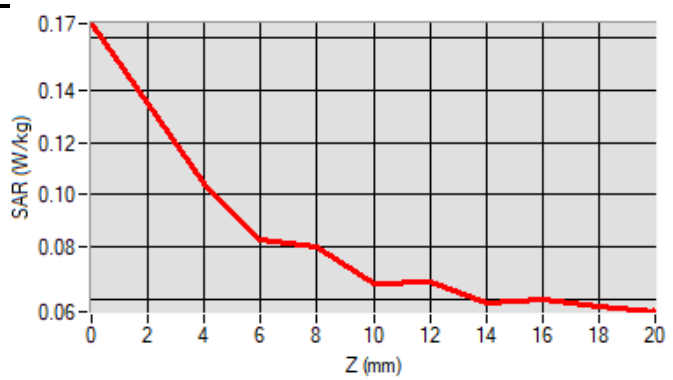


Maximum location: X=-2.00, Y=-5.00 ; SAR Peak: 0.13 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.065629
SAR 1g (W/Kg)	0.087766
Variation (%)	-3.070000

E. Z Axis Scan



SAR Measurement at CUSTOM (5.8GHz 802.11a) (Body, Validation Plane)

Date of measurement: 14/11/2022

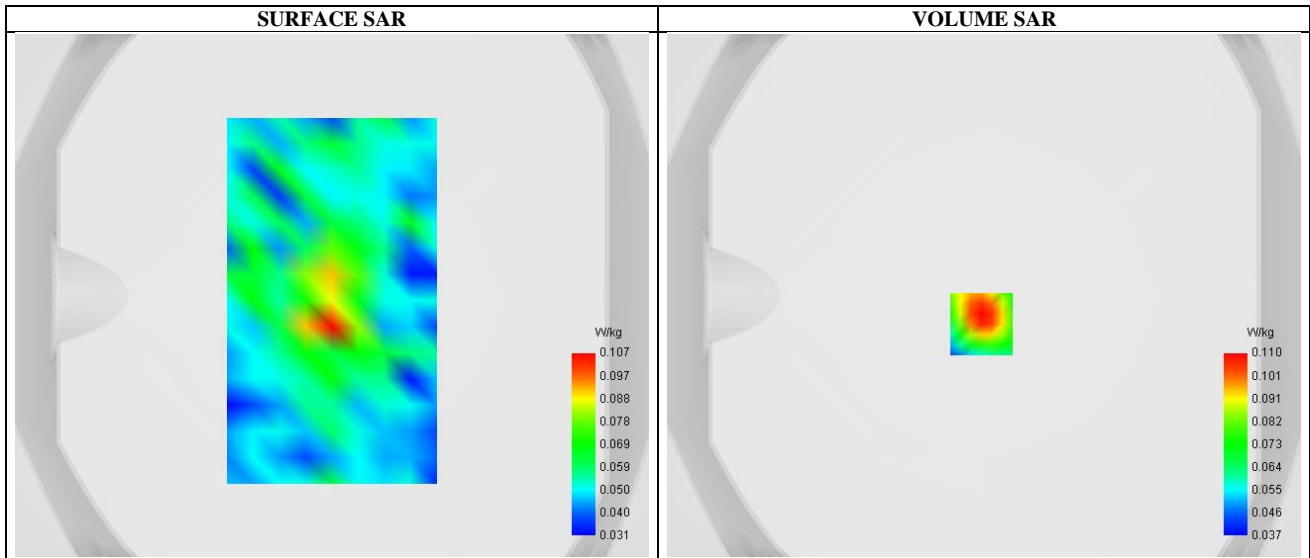
A. Experimental conditions.

Probe	SN 18/21 EPGO354
ConvF	1.94
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE802.11a
Channels	Middle
Signal	IEEE802.11a (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	5785.000000
Relative permittivity (real part)	35.101241
Conductivity (S/m)	5.214763

C. SAR Surface and Volume



Maximum location: X=-1.00, Y=-11.00 ; SAR Peak: 0.13 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.061723
SAR 1g (W/Kg)	0.085812
Variation (%)	0.200000

E. Z Axis Scan

