

LTE Band 5-Front-of-face

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

Date of measurement: 10/10/2022

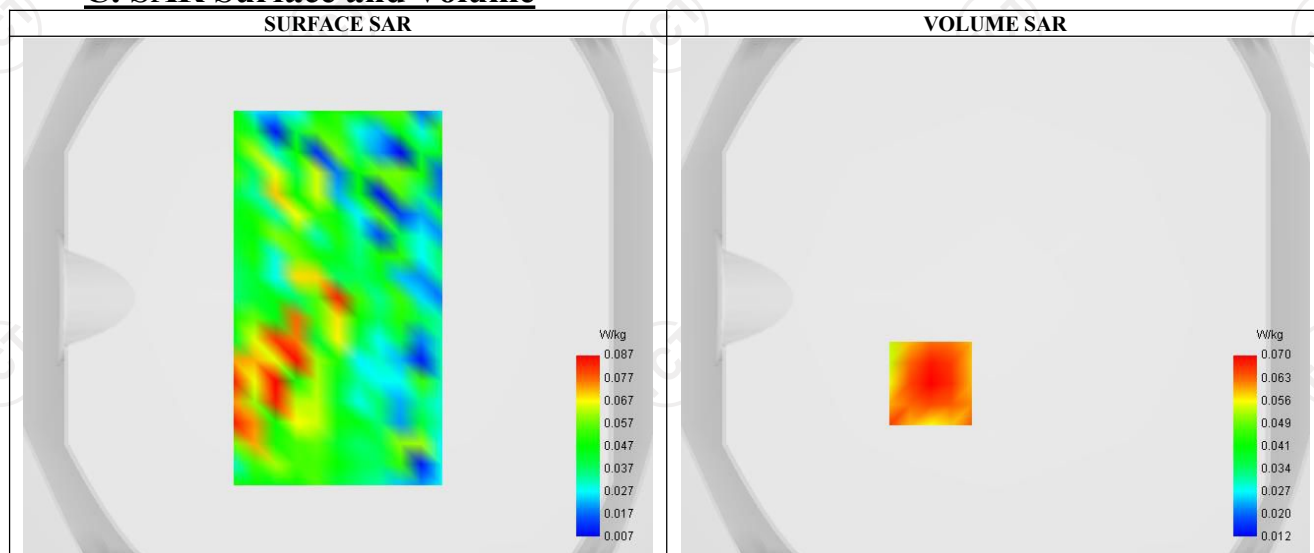
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	1.86
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 (20252)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	0
RB size	1

B. Permittivity

Frequency (MHz)	836.500
Relative permittivity (real part)	55.242
Relative permittivity (imaginary part)	21.378
Conductivity (S/m)	0.939

C. SAR Surface and Volume



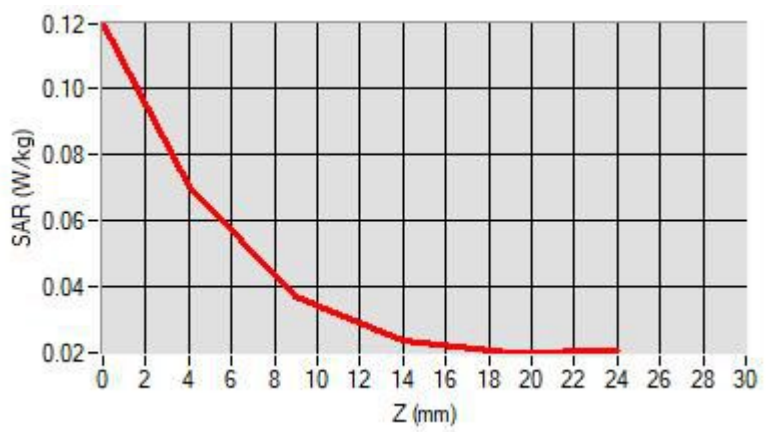
Maximum location: X=-25.00, Y=-33.00 ; SAR Peak: 0.12 W/kg

D. SAR 1g & 10g

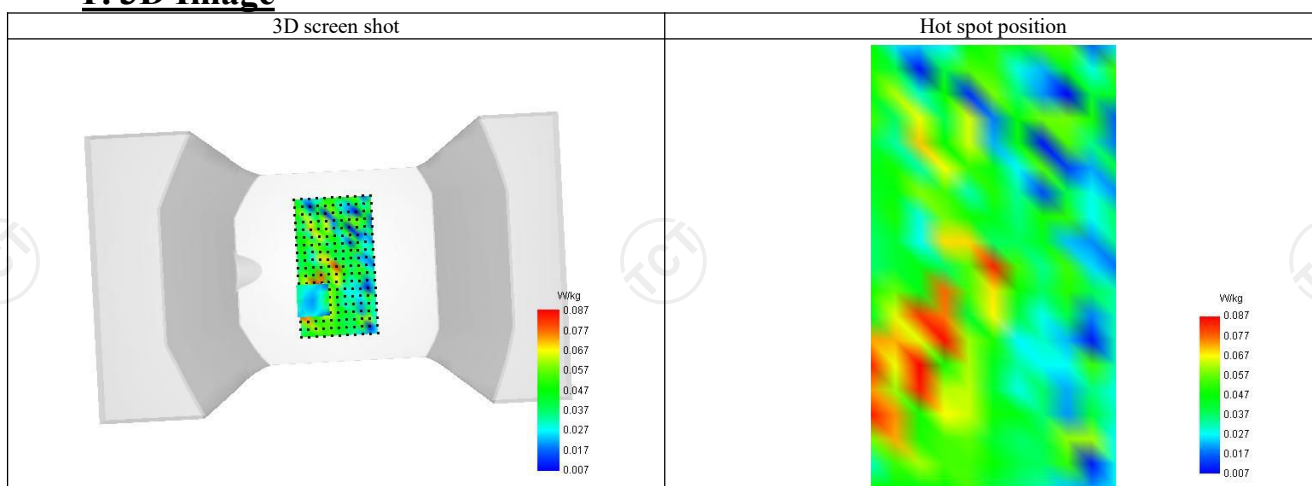
SAR 10g (W/Kg)	0.047
SAR 1g (W/Kg)	0.072
Variation (%)	4.500
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.119	0.070	0.037	0.023	0.020



F. 3D Image



LTE Band 7-Body

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

Date of measurement: 12/10/2022

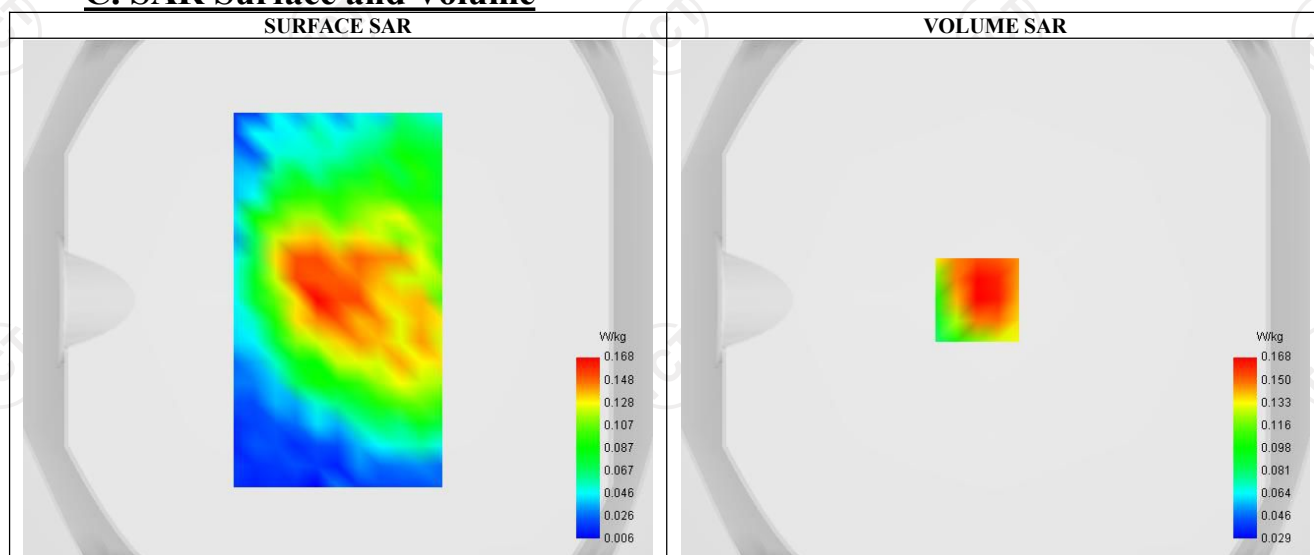
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPGO346)
ConvF	2.23
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 7
Channels	Middle (21100)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Frequency (MHz)	2535.000
Relative permittivity (real part)	51.944
Relative permittivity (imaginary part)	14.935
Conductivity (S/m)	2.135

C. SAR Surface and Volume

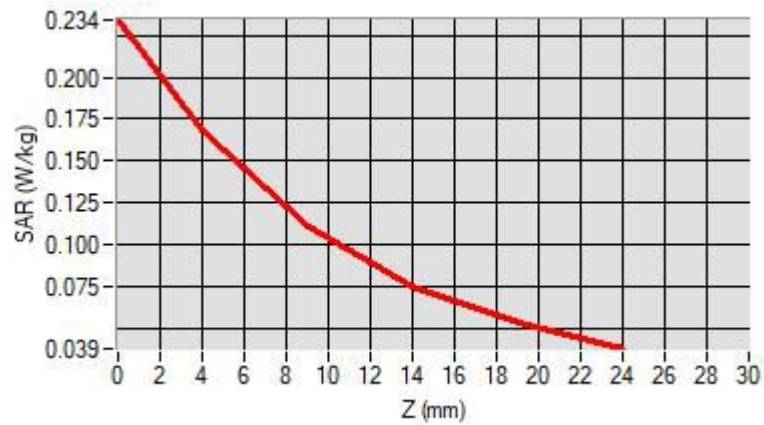


D. SAR 1g & 10g

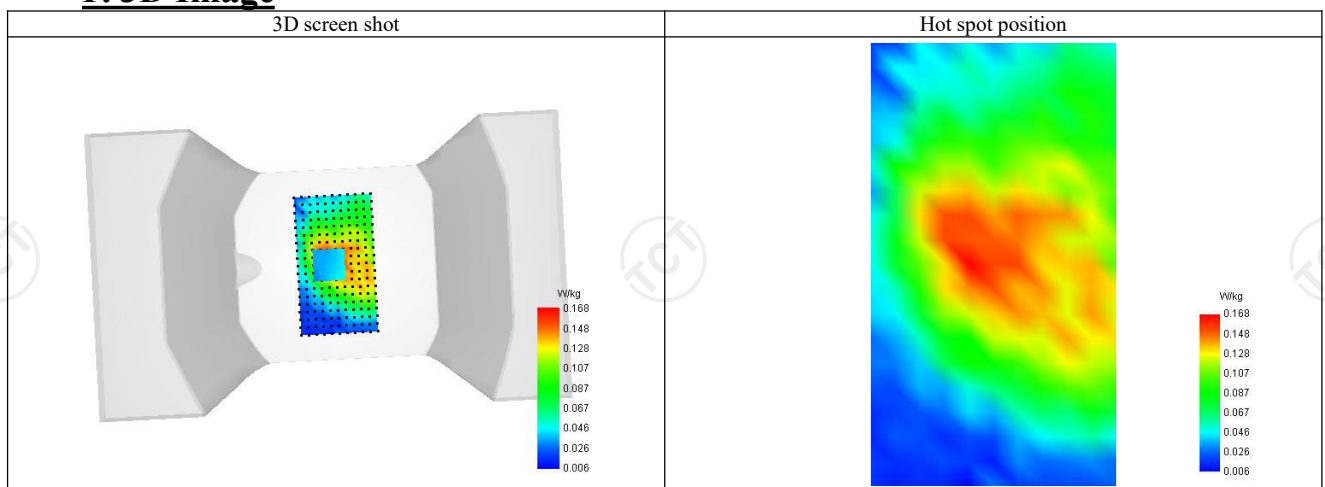
SAR 10g (W/Kg)	0.113
SAR 1g (W/Kg)	0.166
Variation (%)	-3.100
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.234	0.168	0.111	0.075	0.054



F. 3D Image



LTE Band 7-Front-of-face

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

Date of measurement: 12/10/2022

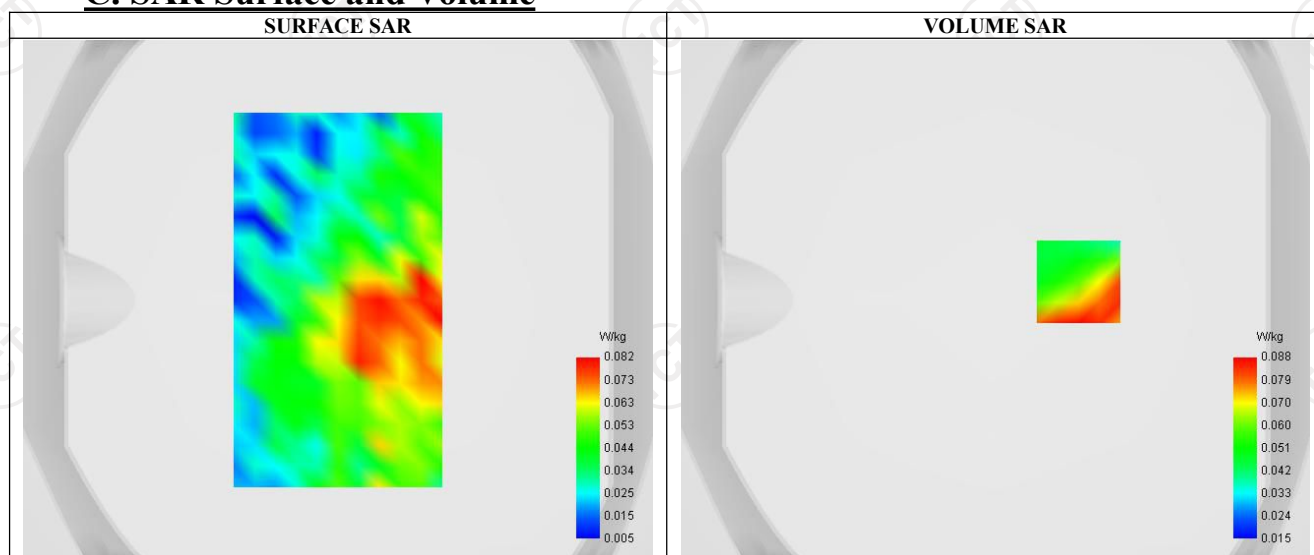
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	2.23
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 7
Channels	Middle (21100)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Frequency (MHz)	2535.000
Relative permittivity (real part)	51.944
Relative permittivity (imaginary part)	14.935
Conductivity (S/m)	2.135

C. SAR Surface and Volume

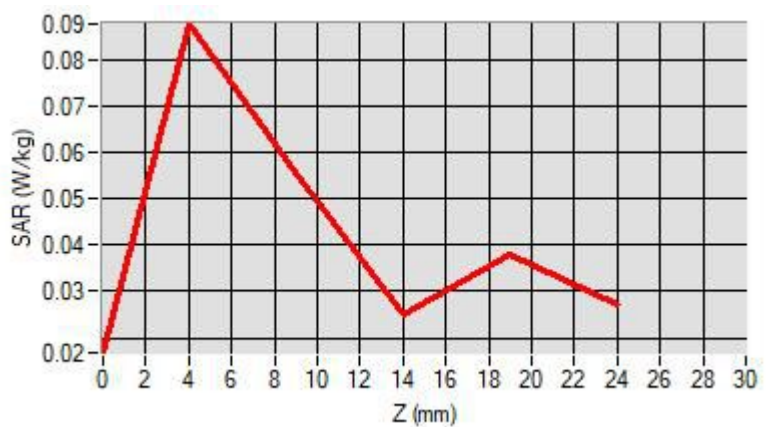


D. SAR 1g & 10g

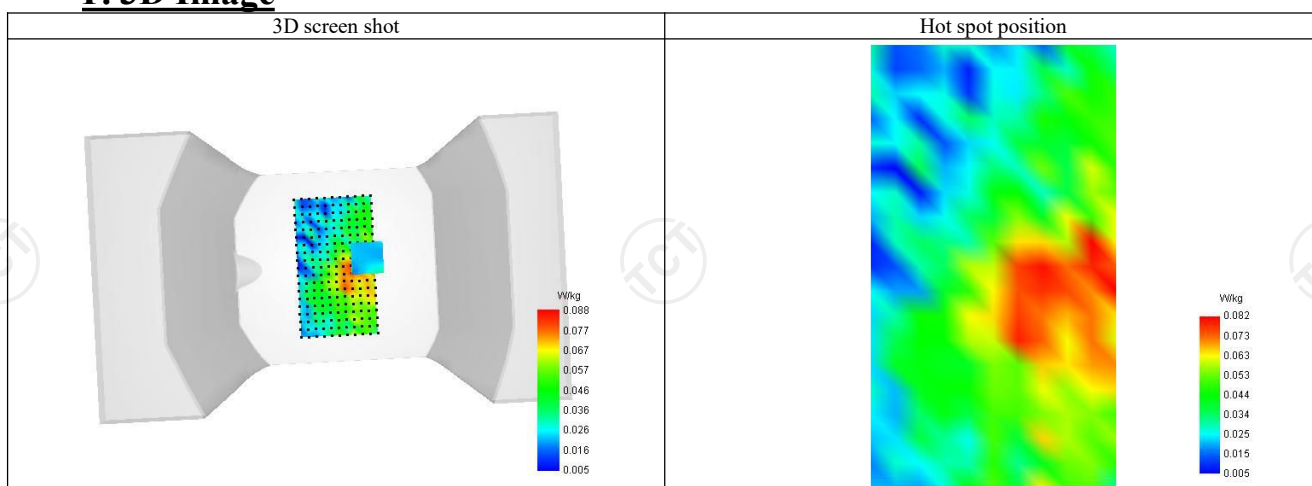
SAR 10g (W/Kg)	0.052
SAR 1g (W/Kg)	0.080
Variation (%)	-2.740
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.017	0.088	0.055	0.025	0.038



F. 3D Image



LTE Band 12-Body

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

Date of measurement: 10/10/2022

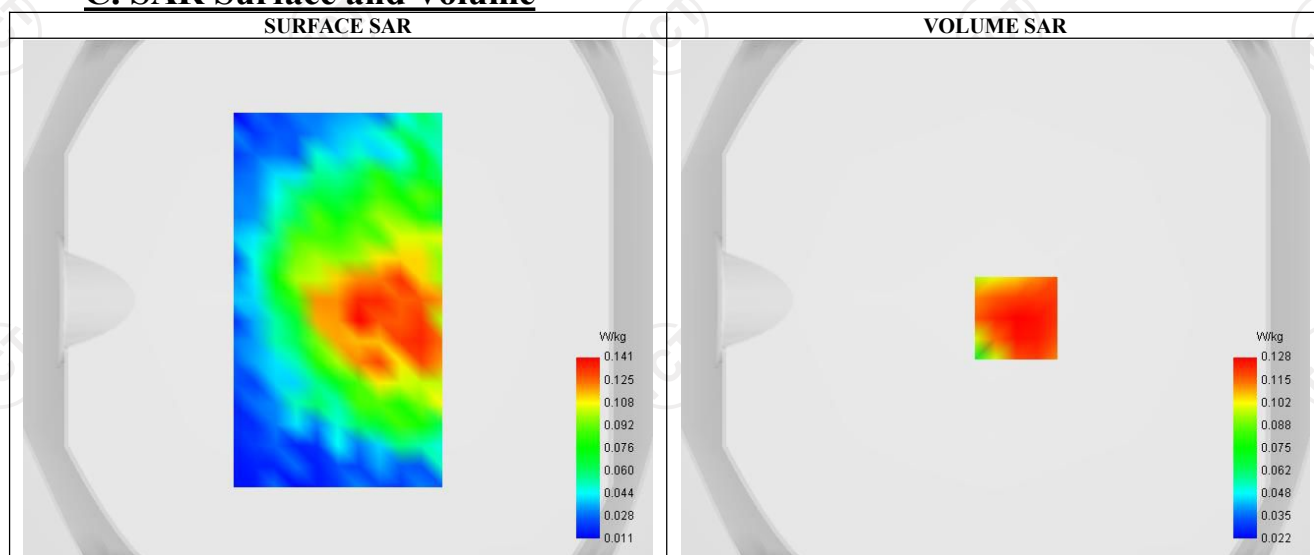
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	1.78
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	Middle (23095)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	24
RB size	1

B. Permittivity

Frequency (MHz)	707.500
Relative permittivity (real part)	55.381
Relative permittivity (imaginary part)	20.148
Conductivity (S/m)	0.921

C. SAR Surface and Volume

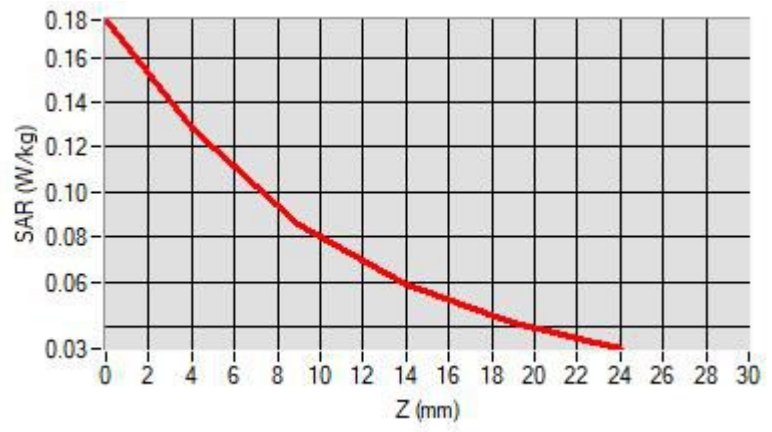


D. SAR 1g & 10g

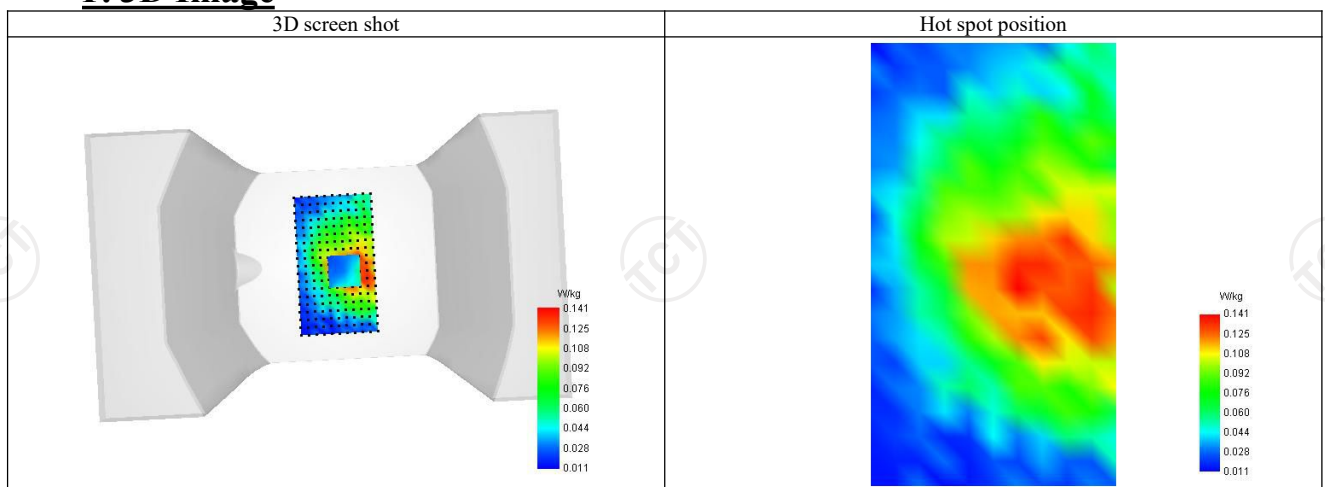
SAR 10g (W/Kg)	0.092
SAR 1g (W/Kg)	0.128
Variation (%)	2.700
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.177	0.128	0.086	0.059	0.042



F. 3D Image



LTE Band 12-Front-of-face

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

Date of measurement: 10/10/2022

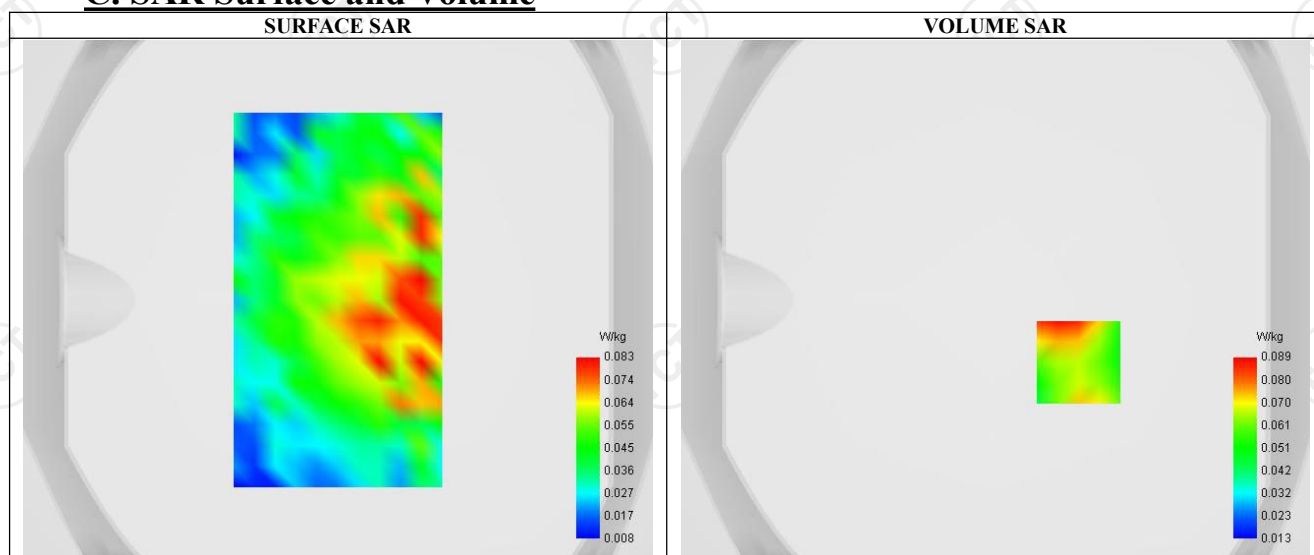
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	1.78
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	Middle (23095)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	24
RB size	1

B. Permittivity

Frequency (MHz)	707.500
Relative permittivity (real part)	55.381
Relative permittivity (imaginary part)	20.148
Conductivity (S/m)	0.921

C. SAR Surface and Volume

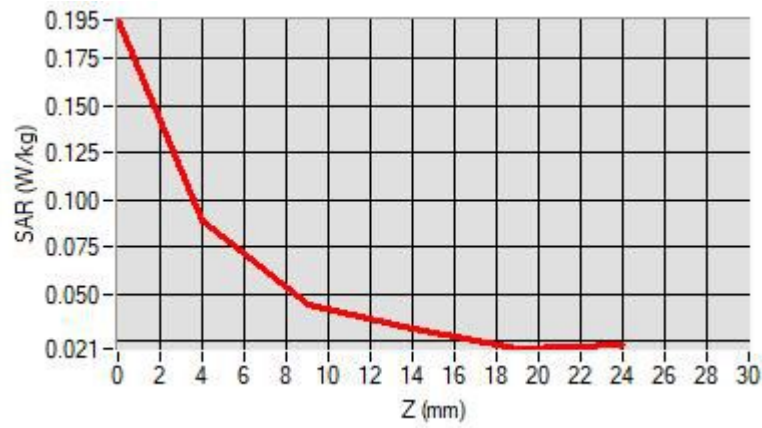


D. SAR 1g & 10g

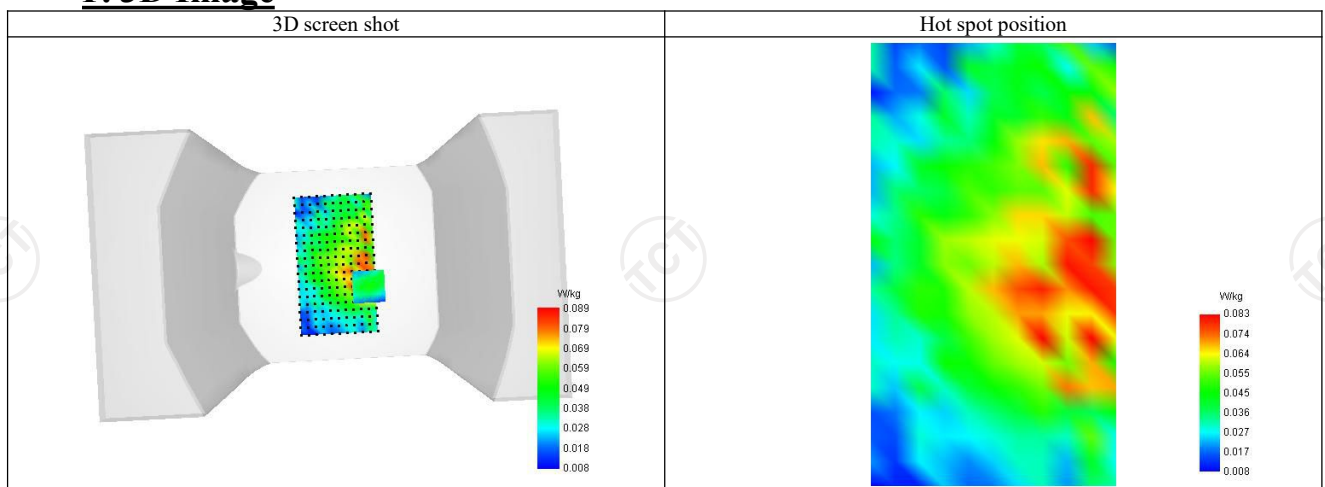
SAR 10g (W/Kg)	0.062
SAR 1g (W/Kg)	0.083
Variation (%)	1.960
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.195	0.089	0.044	0.031	0.021



F. 3D Image



LTE Band 13-Body

SAR Measurement at LTE band 13 (Body, Validation Plane)

Date of measurement: 10/10/2022

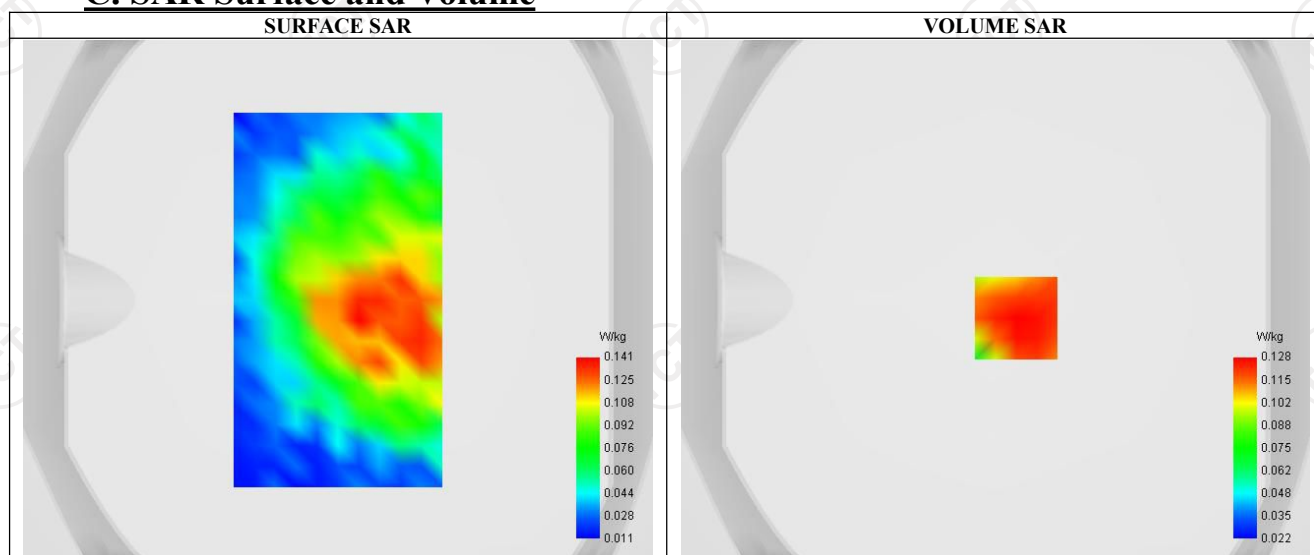
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	1.78
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 13
Channels	Middle (23230)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Frequency (MHz)	707.500
Relative permittivity (real part)	55.381
Relative permittivity (imaginary part)	20.148
Conductivity (S/m)	0.921

C. SAR Surface and Volume

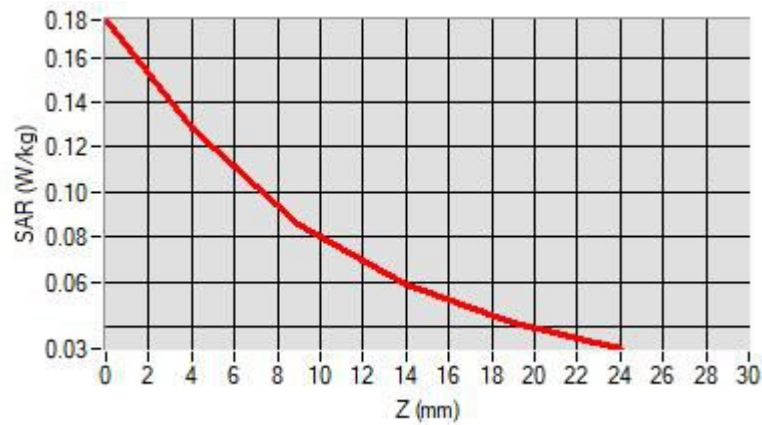


D. SAR 1g & 10g

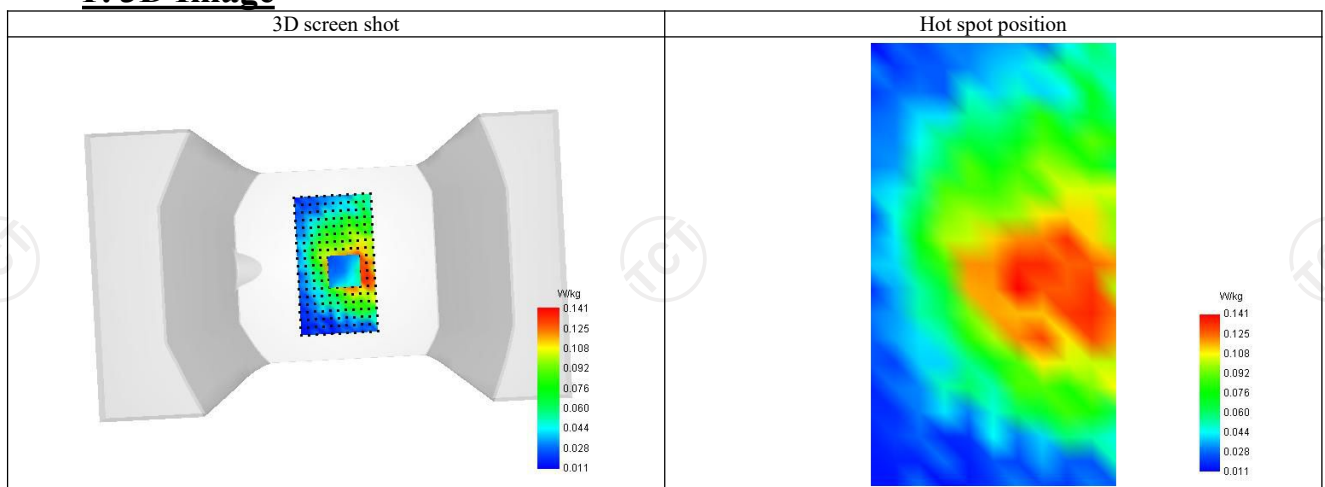
SAR 10g (W/Kg)	0.981
SAR 1g (W/Kg)	0.148
Variation (%)	1.710
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.177	0.128	0.086	0.059	0.042



F. 3D Image



LTE Band 13-Front-of-face

SAR Measurement at LTE band 13 (Body, Validation Plane)

Date of measurement: 10/10/2022

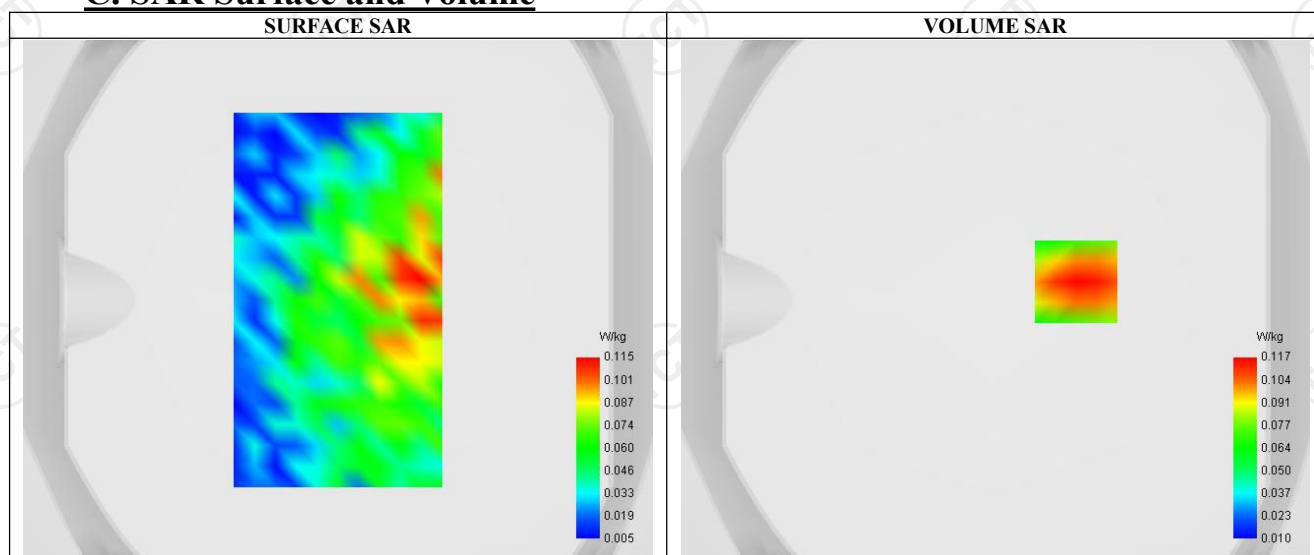
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	1.78
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 13
Channels	Middle (23230)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Frequency (MHz)	707.500
Relative permittivity (real part)	55.381
Relative permittivity (imaginary part)	20.148
Conductivity (S/m)	0.921

C. SAR Surface and Volume



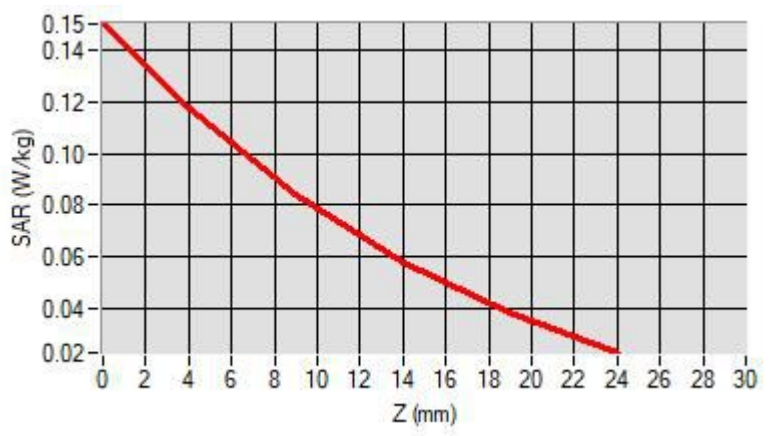
Maximum location: X=31.00, Y=7.00 ; SAR Peak: 0.20 W/kg

D. SAR 1g & 10g

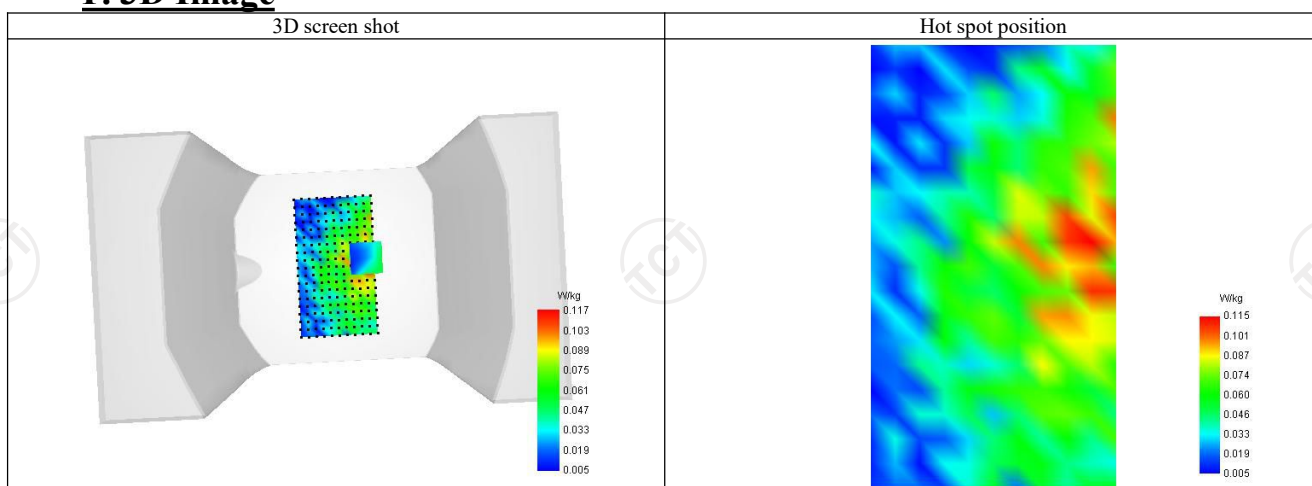
SAR 10g (W/Kg)	0.079
SAR 1g (W/Kg)	0.117
Variation (%)	1.180
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.150	0.117	0.084	0.058	0.038



F. 3D Image



LTE Band 17-Body

SAR Measurement at LTE band 17 (Body, Validation Plane)

Date of measurement: 10/10/2022

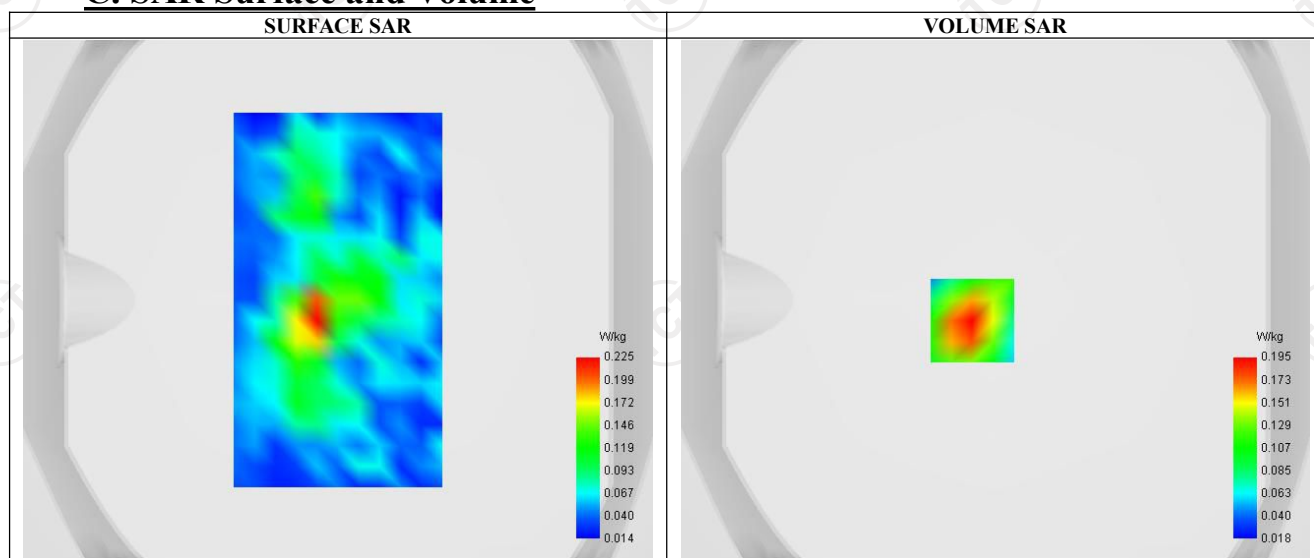
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPGO346)
ConvF	1.78
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 17
Channels	Higher (23800)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	24
RB size	1

B. Permittivity

Frequency (MHz)	711.000
Relative permittivity (real part)	55.381
Relative permittivity (imaginary part)	20.148
Conductivity (S/m)	0.921

C. SAR Surface and Volume



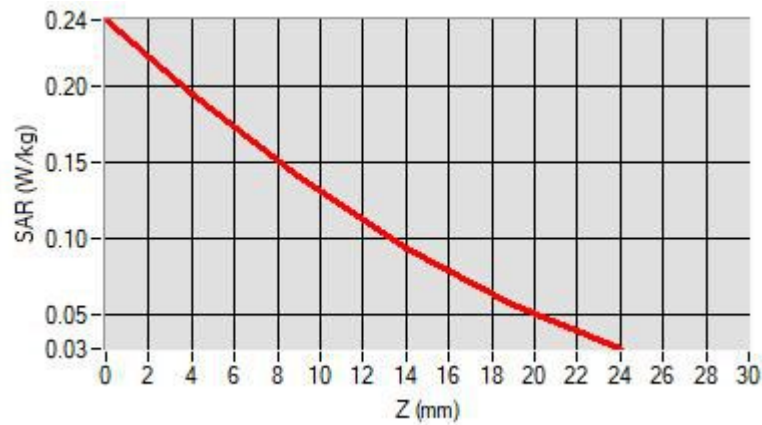
Maximum location: X=-9.00, Y=-8.00 ; SAR Peak: 0.27 W/kg

D. SAR 1g & 10g

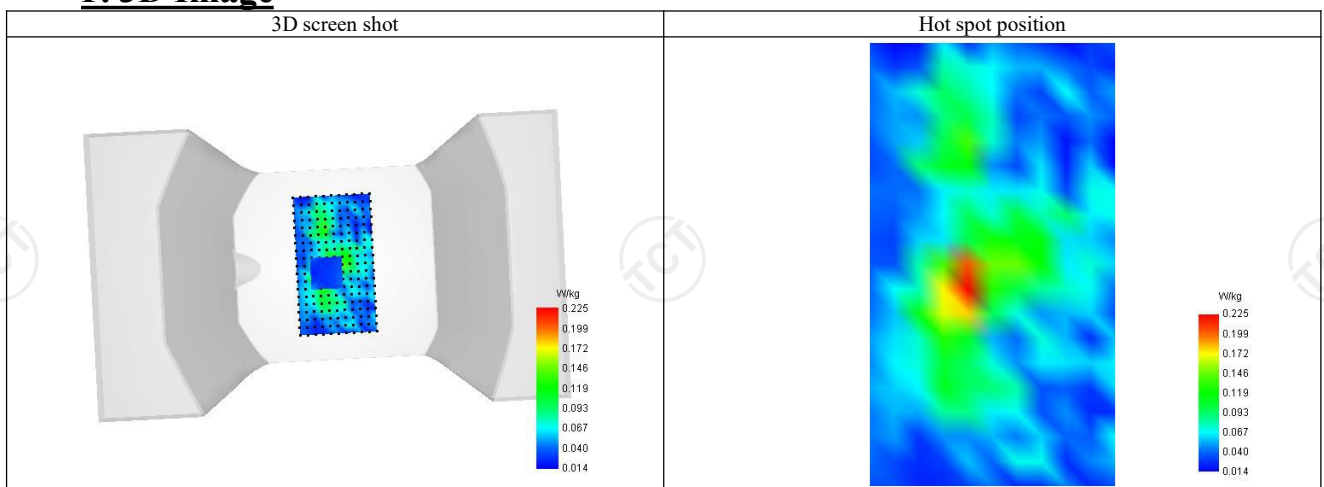
SAR 10g (W/Kg)	0.109
SAR 1g (W/Kg)	0.184
Variation (%)	0.950
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.243	0.195	0.141	0.094	0.057



F. 3D Image



LTE Band 17-Front-of-face

SAR Measurement at LTE band 17 (Body, Validation Plane)

Date of measurement: 10/10/2022

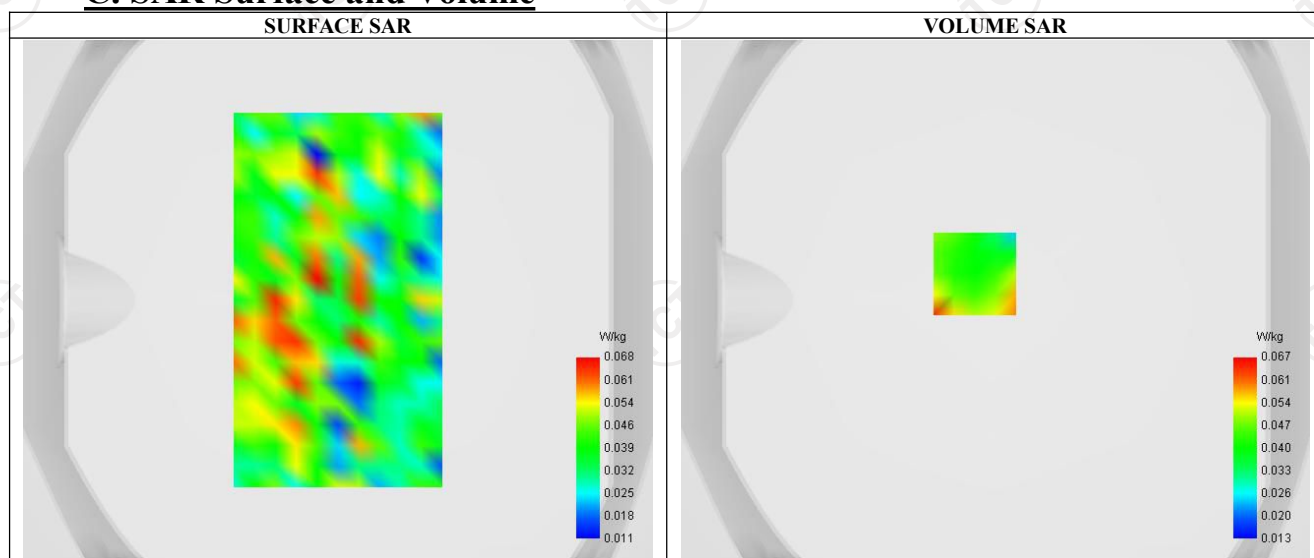
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPGO346)
ConvF	1.78
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 17
Channels	Higher (23800)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	24
RB size	1

B. Permittivity

Frequency (MHz)	711.000
Relative permittivity (real part)	55.381
Relative permittivity (imaginary part)	20.148
Conductivity (S/m)	0.921

C. SAR Surface and Volume



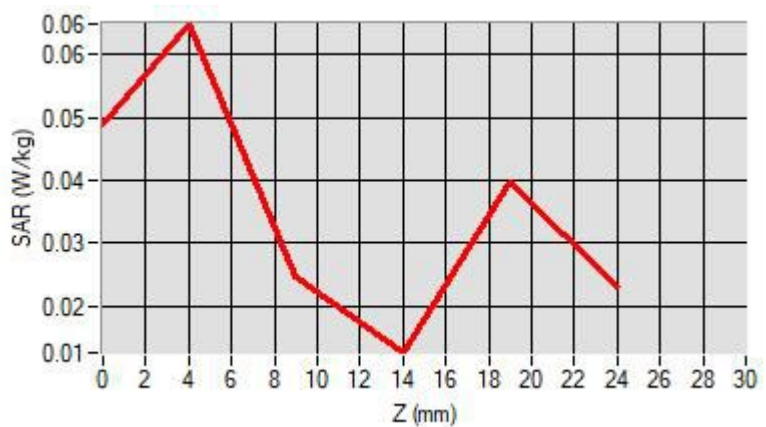
Maximum location: X=-8.00, Y=10.00 ; SAR Peak: 0.14 W/kg

D. SAR 1g & 10g

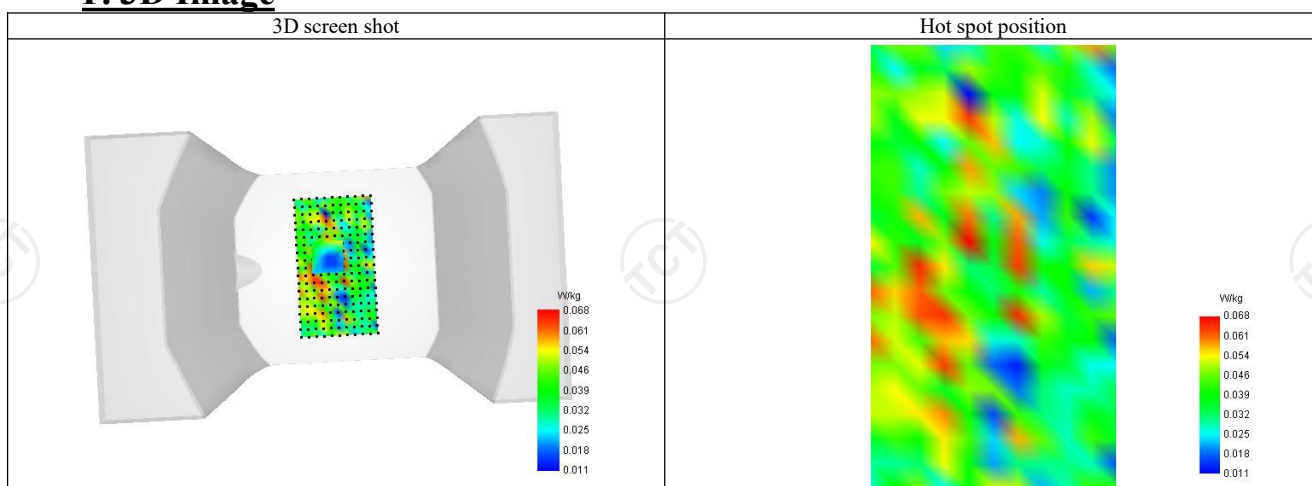
SAR 10g (W/Kg)	0.047
SAR 1g (W/Kg)	0.059
Variation (%)	1.400
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.049	0.065	0.025	0.013	0.040



F. 3D Image



LTE Band 25-Body

SAR Measurement at LTE band 25 (Body, Validation Plane)

Date of measurement: 11/10/2022

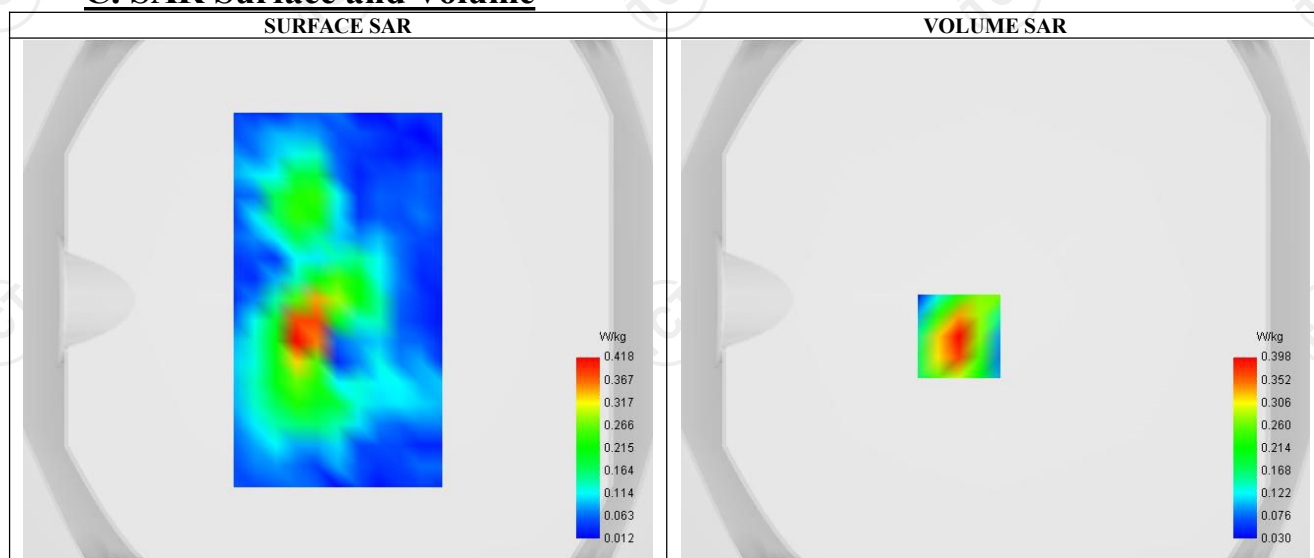
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	2.32
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 25
Channels	Middle (26365)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	0
RB size	1

B. Permittivity

Frequency (MHz)	1882.500
Relative permittivity (real part)	53.252
Relative permittivity (imaginary part)	26.094
Conductivity (S/m)	1.562

C. SAR Surface and Volume

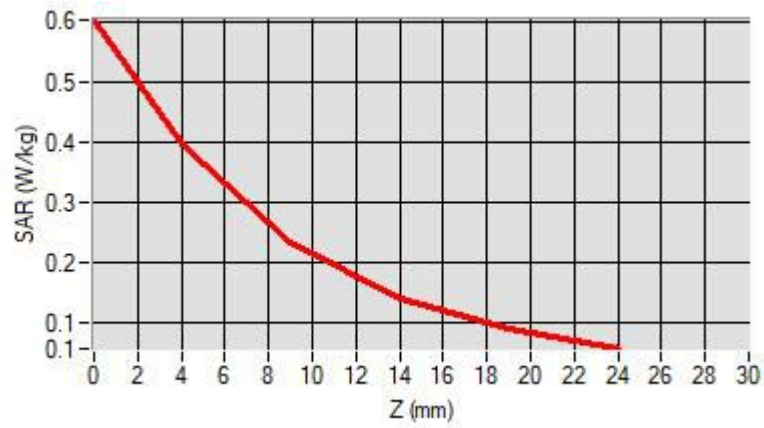


D. SAR 1g & 10g

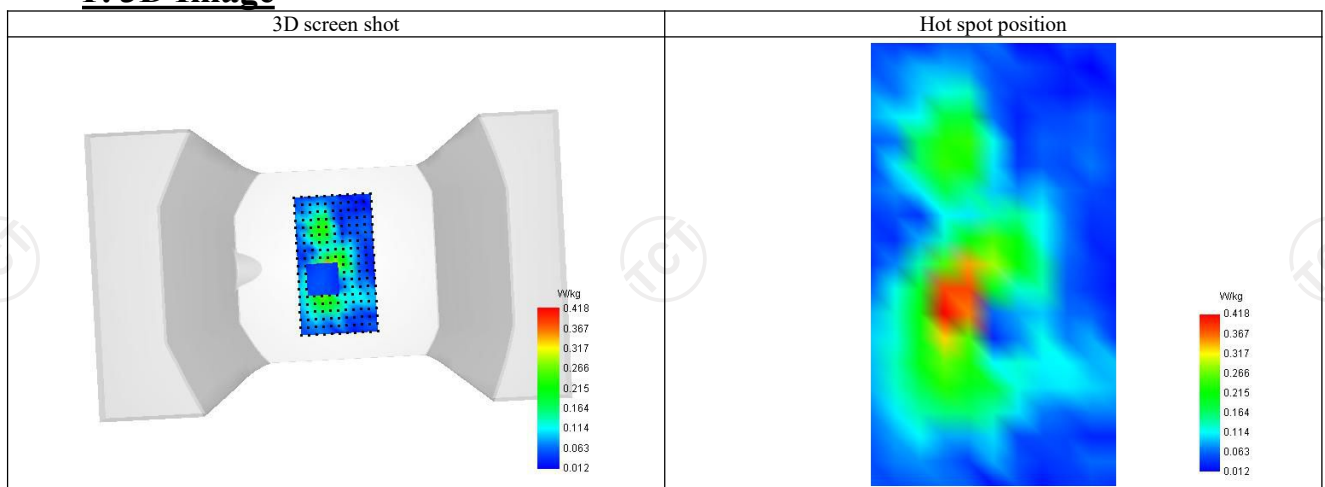
SAR 10g (W/Kg)	0.199
SAR 1g (W/Kg)	0.370
Variation (%)	-0.760
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.604	0.398	0.233	0.139	0.087



F. 3D Image



LTE Band 25-Front-of-face

SAR Measurement at LTE band 25 (Body, Validation Plane)

Date of measurement: 11/10/2022

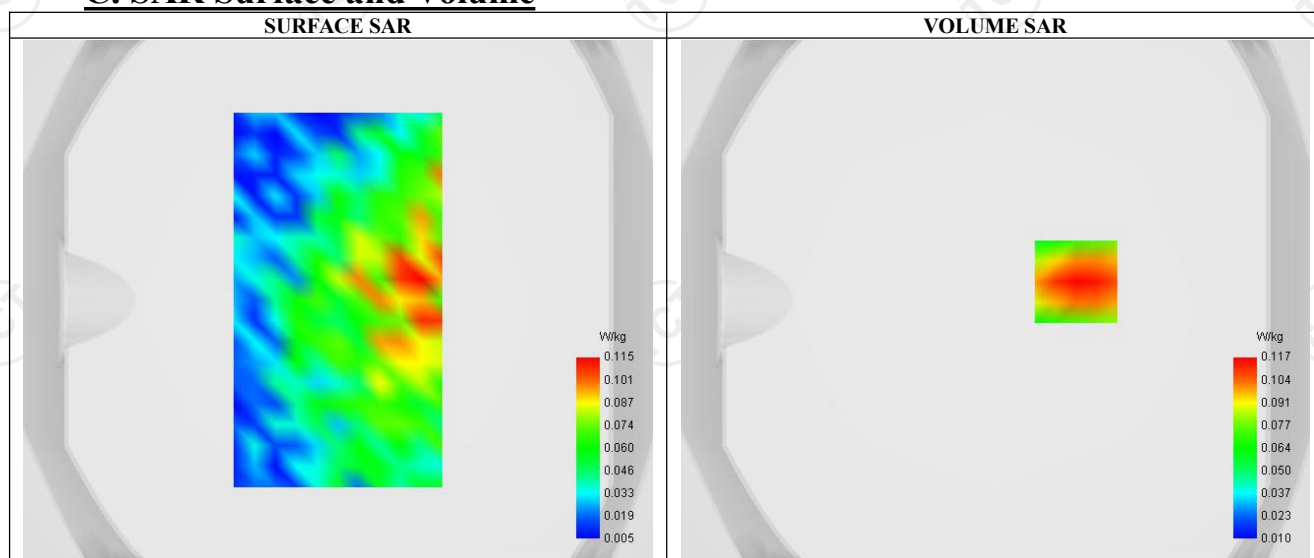
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	2.32
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 25
Channels	Middle (26365)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	0
RB size	1

B. Permittivity

Frequency (MHz)	1882.500
Relative permittivity (real part)	53.252
Relative permittivity (imaginary part)	26.094
Conductivity (S/m)	1.562

C. SAR Surface and Volume



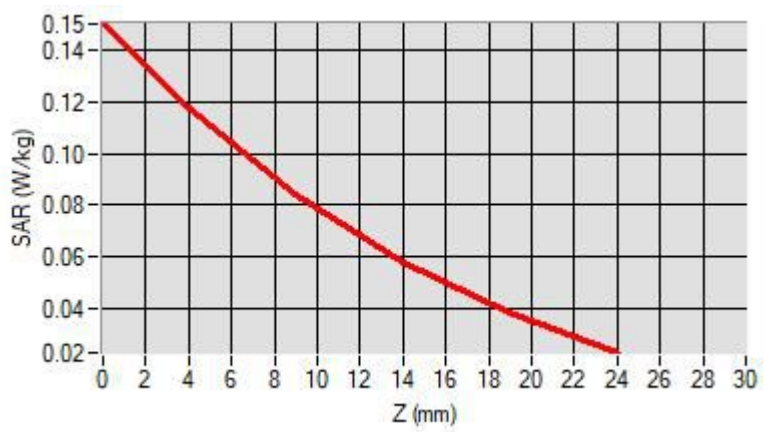
Maximum location: X=31.00, Y=7.00 ; SAR Peak: 0.20 W/kg

D. SAR 1g & 10g

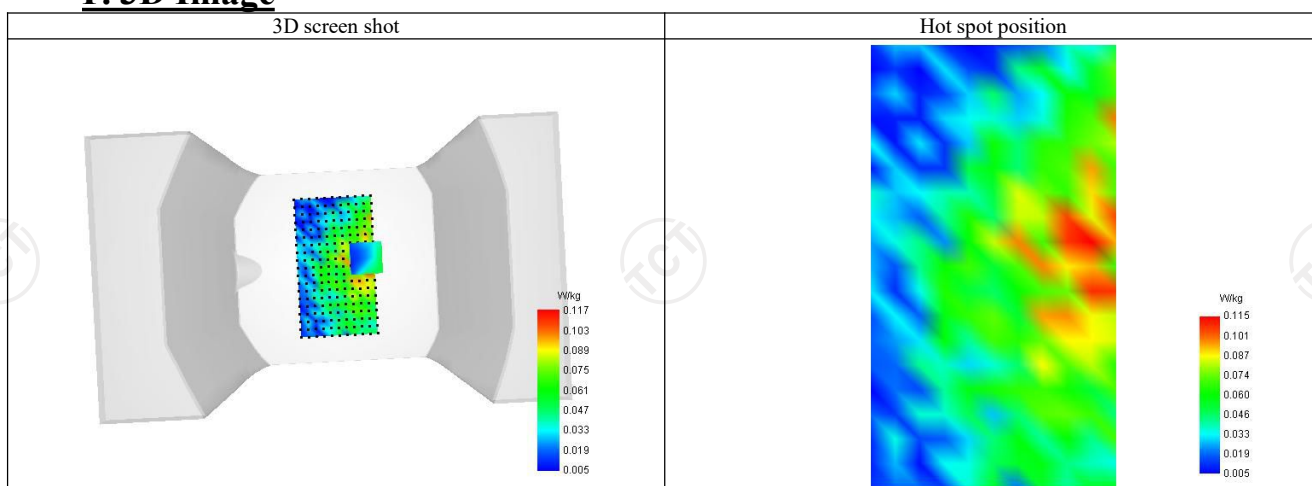
SAR 10g (W/Kg)	0.084
SAR 1g (W/Kg)	0.122
Variation (%)	-1.480
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.150	0.117	0.084	0.058	0.038



F. 3D Image



LTE Band 26-Body

SAR Measurement at LTE band 26 (Body, Validation Plane)

Date of measurement: 10/10/2022

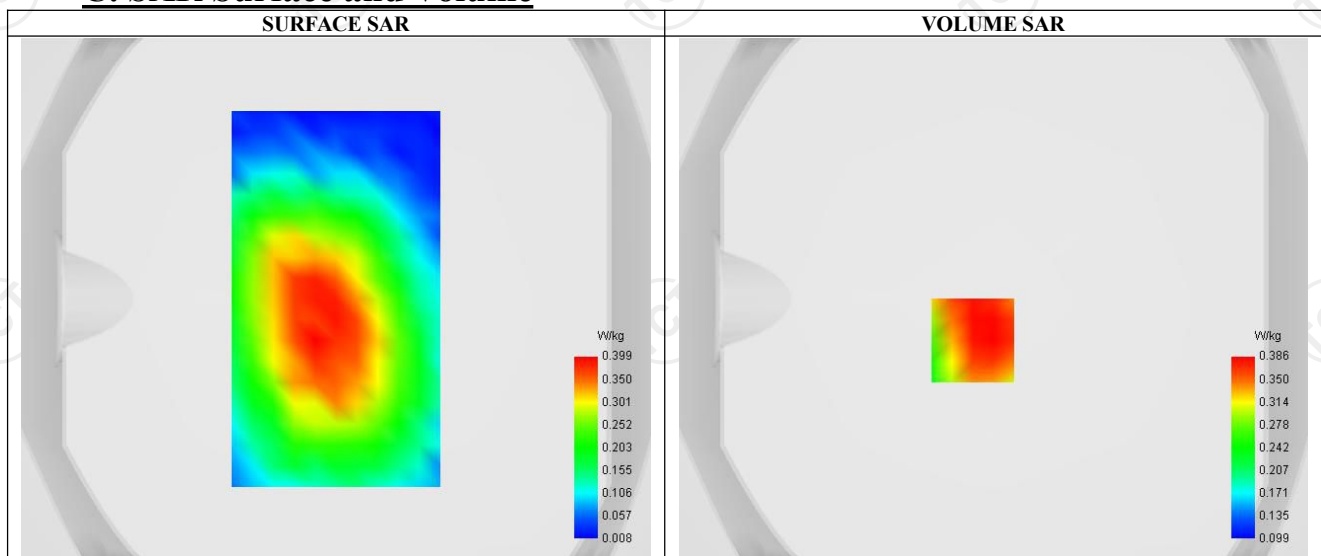
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	1.86
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 26
Channels	Middle (26765)
Signal	LTE FDD
Cell Bandwidth	15 Mhz
Modulation	SC-OFDM - QPSK
RB offset	0
RB size	1

B. Permittivity

Frequency (MHz)	821.500
Relative permittivity (real part)	55.262
Relative permittivity (imaginary part)	26.094
Conductivity (S/m)	0.933

C. SAR Surface and Volume



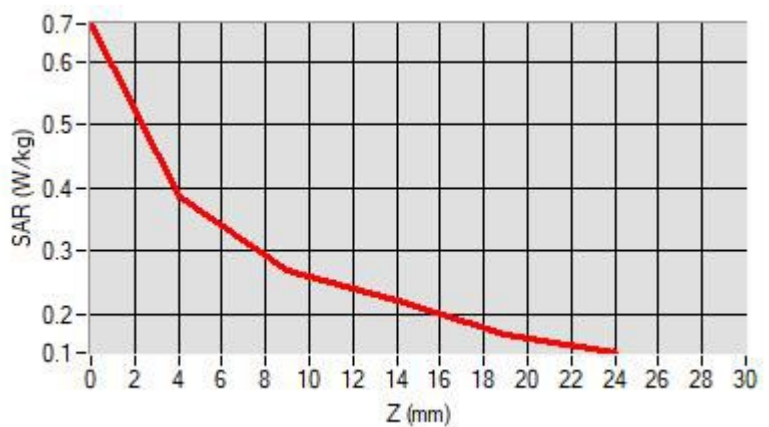
Maximum location: X=-8.00, Y=-16.00 ; SAR Peak: 0.49 W/kg

D. SAR 1g & 10g

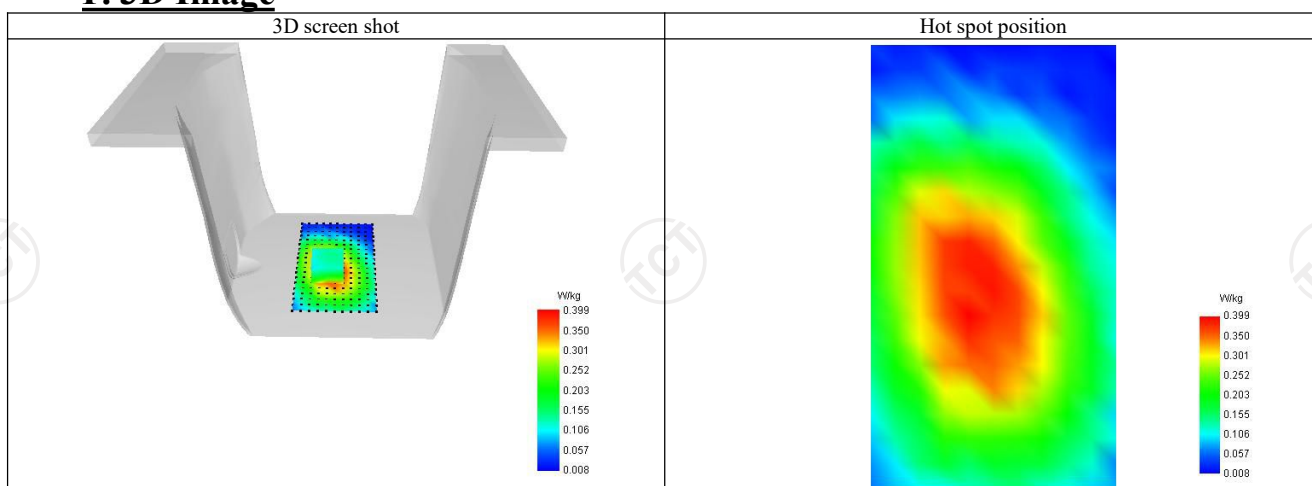
SAR 10g (W/Kg)	0.294
SAR 1g (W/Kg)	0.400
Variation (%)	-3.480
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.659	0.386	0.269	0.223	0.168



F. 3D Image



LTE Band 26-Front-of-face

SAR Measurement at LTE band 26 (Body, Validation Plane)

Date of measurement: 10/10/2022

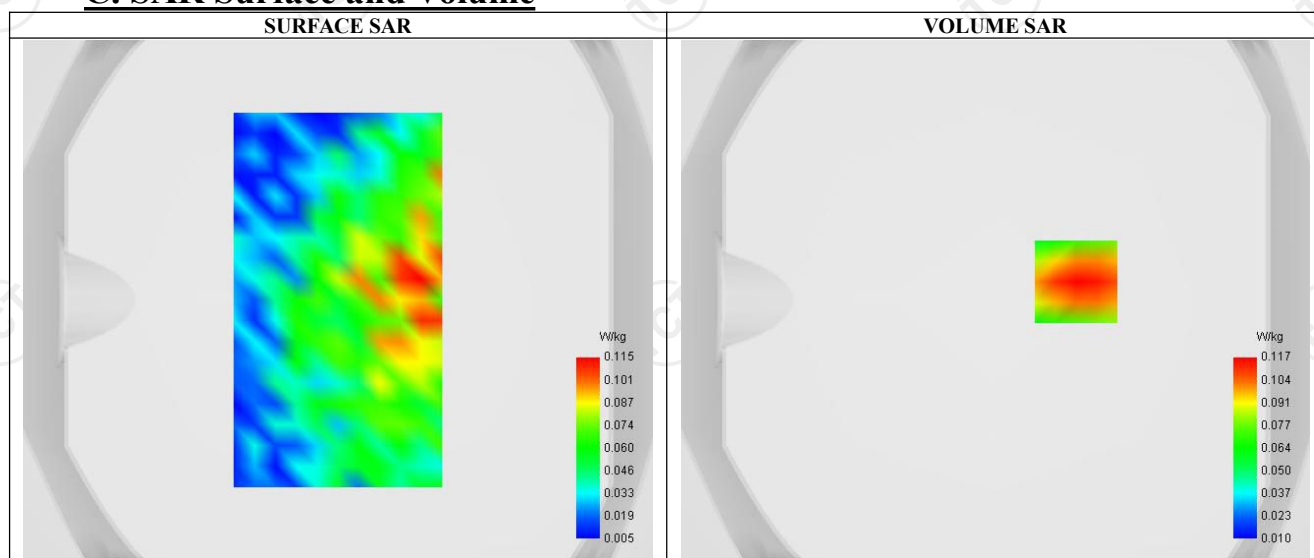
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPGO346)
ConvF	1.86
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 26
Channels	Middle (26765)
Signal	LTE FDD
Cell Bandwidth	15 Mhz
Modulation	SC-OFDM - QPSK
RB offset	0
RB size	1

B. Permittivity

Frequency (MHz)	821.500
Relative permittivity (real part)	55.262
Relative permittivity (imaginary part)	26.094
Conductivity (S/m)	0.933

C. SAR Surface and Volume



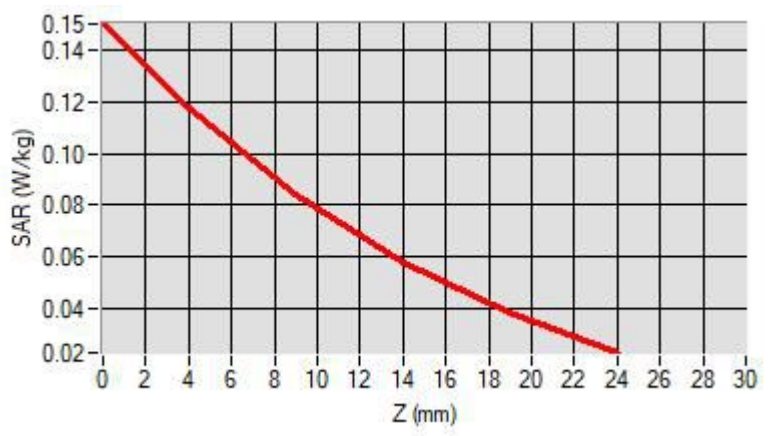
Maximum location: X=31.00, Y=7.00 ; SAR Peak: 0.20 W/kg

D. SAR 1g & 10g

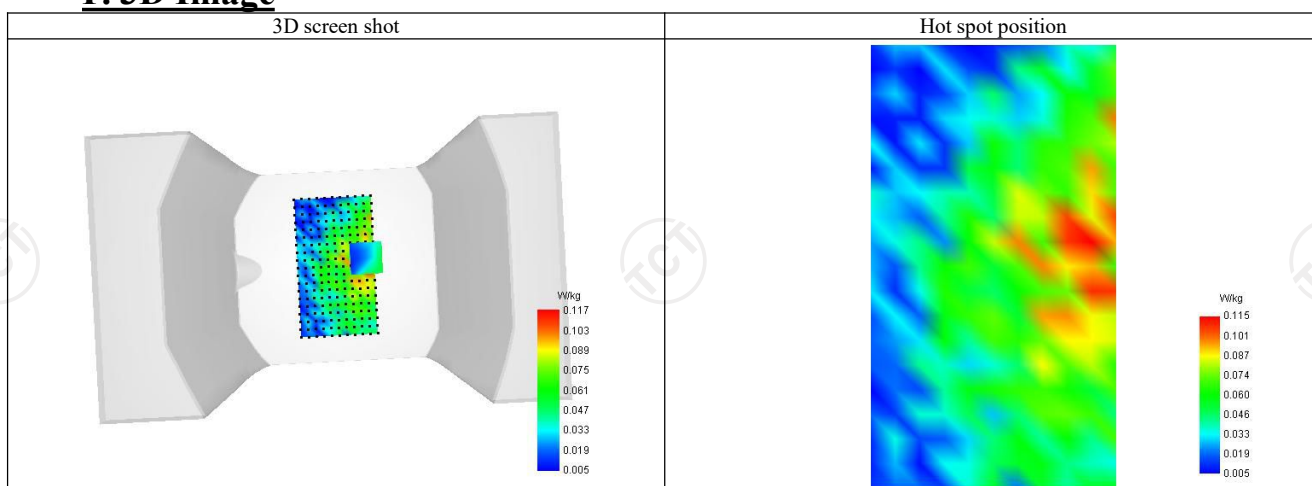
SAR 10g (W/Kg)	0.097
SAR 1g (W/Kg)	0.131
Variation (%)	-1.080
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.150	0.117	0.084	0.058	0.038



F. 3D Image



LTE Band 41-Body

SAR Measurement at LTE band 41 (Body, Validation Plane)

Date of measurement: 12/10/2022

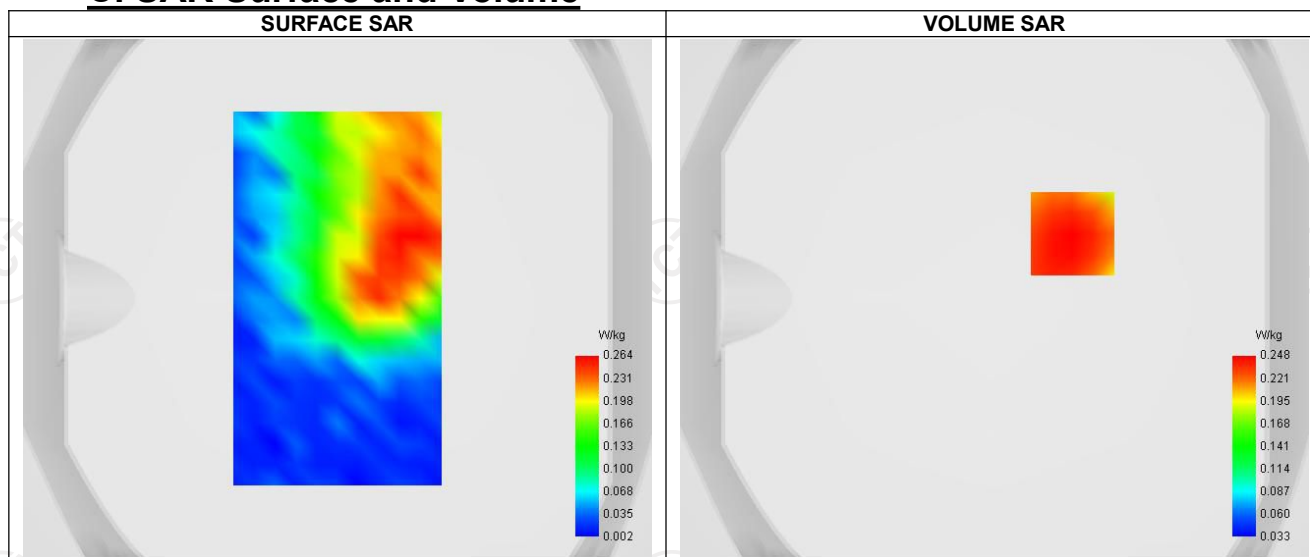
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	2.23
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 41
Channels	Higher (41490)
Signal	LTE TDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1
Subframe configuration	0
Special subframe configuration	0
Cyclic prefix	Normal
Duty Cycle (%)	0.61

B. Permittivity

Frequency (MHz)	2680.000
Relative permittivity (real part)	51.803
Relative permittivity (imaginary part)	12.690
Conductivity (S/m)	2.162

C. SAR Surface and Volume

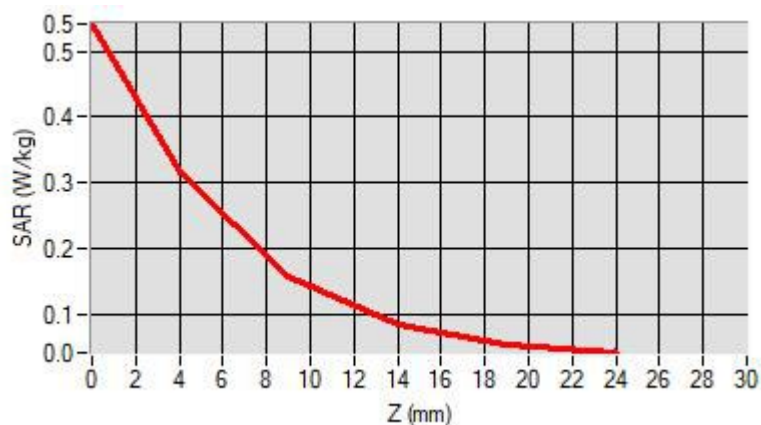


D. SAR 1g & 10g

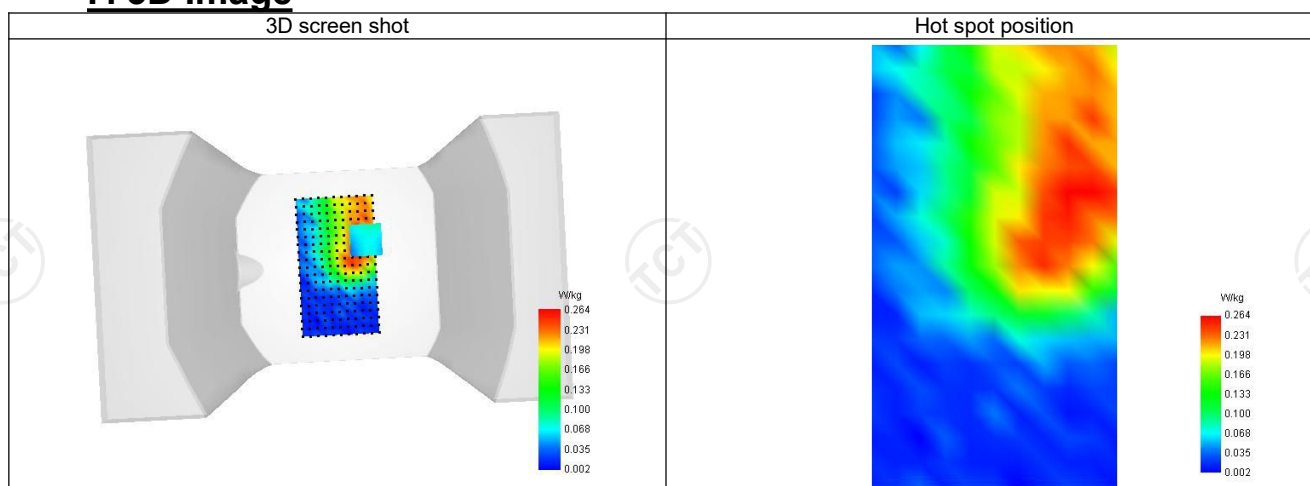
SAR 10g (W/Kg)	0.163
SAR 1g (W/Kg)	0.300
Variation (%)	2.060
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.542	0.316	0.157	0.083	0.054



F. 3D Image



LTE Band 41-Front-of-face

SAR Measurement at LTE band 41 (Body, Validation Plane)

Date of measurement: 12/10/2022

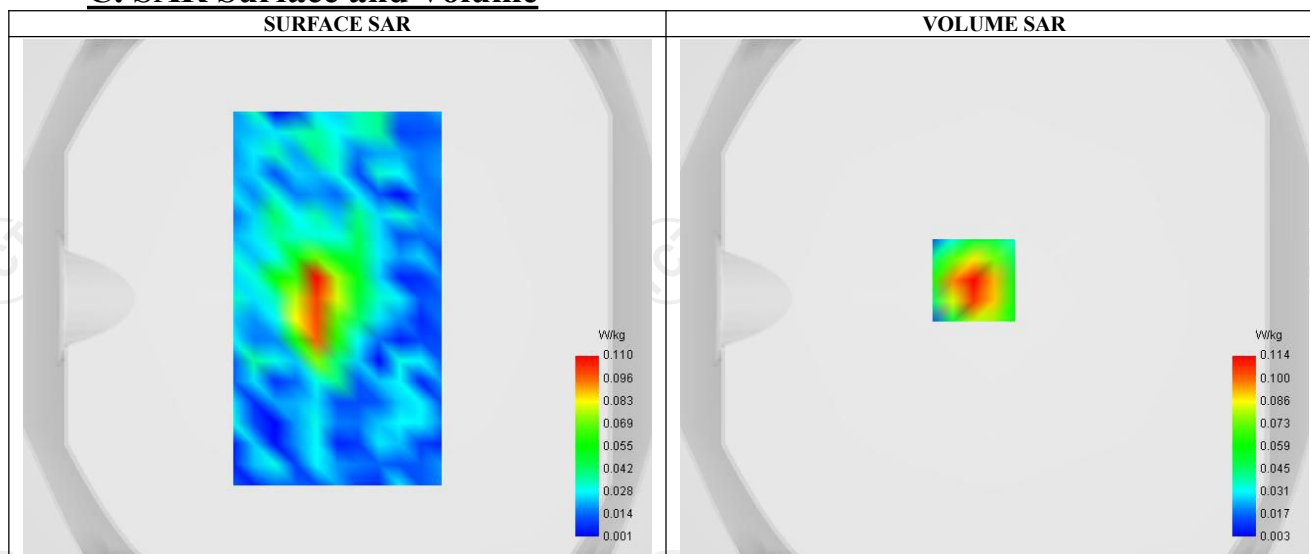
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	2.23
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 41
Channels	Higher (41490)
Signal	LTE TDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1
Subframe configuration	0
Special subframe configuration	0
Cyclic prefix	Normal
Duty Cycle (%)	0.61

B. Permittivity

Frequency (MHz)	2680.000
Relative permittivity (real part)	51.803
Relative permittivity (imaginary part)	12.690
Conductivity (S/m)	2.162

C. SAR Surface and Volume

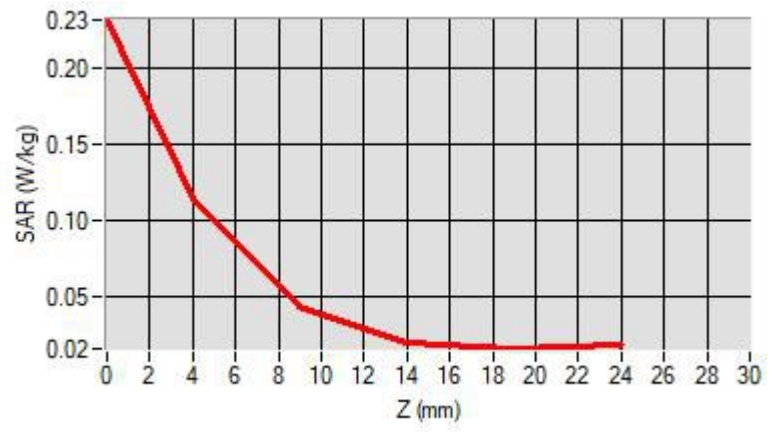


D. SAR 1g & 10g

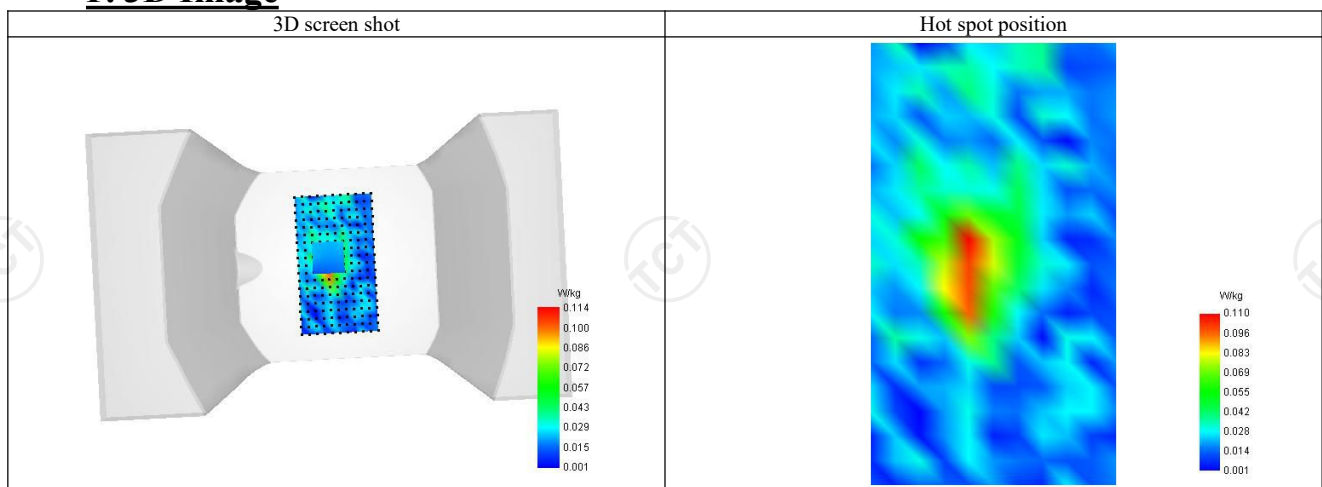
SAR 10g (W/Kg)	0.054
SAR 1g (W/Kg)	0.112
Variation (%)	3.040
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.231	0.114	0.044	0.020	0.017



F. 3D Image



LTE Band 66-Body

SAR Measurement at LTE band 66 (Body, Validation Plane)

Date of measurement: 11/10/2022

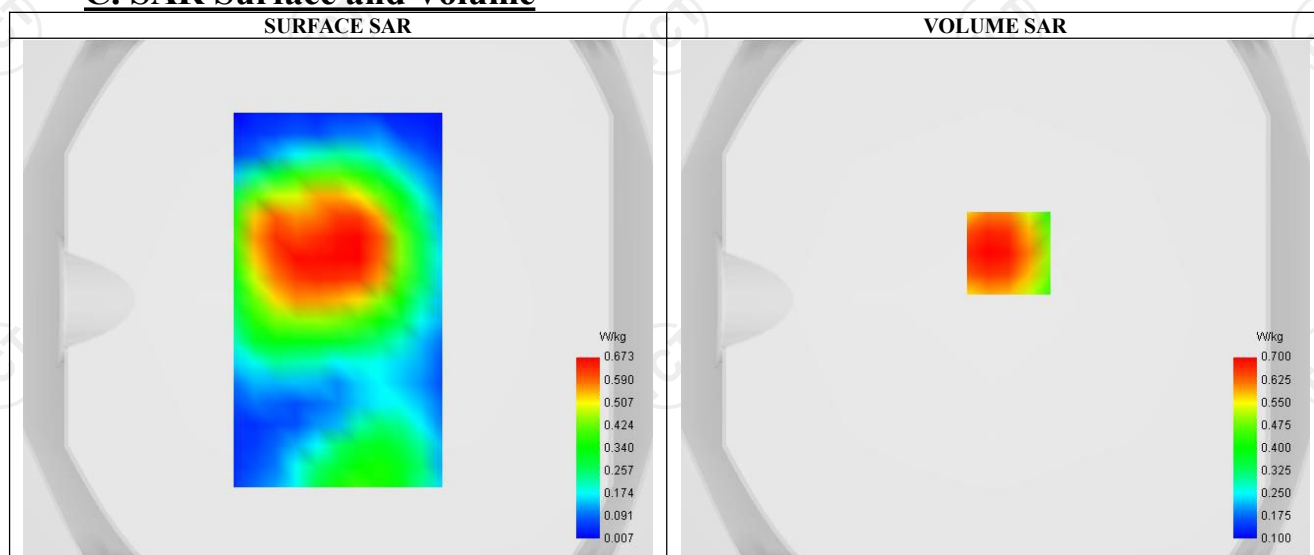
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPGO346)
ConvF	2.16
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	Lower (132072)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM – QPSK
RB offset	49
RB size	1

B. Permittivity

Frequency (MHz)	1720.000
Relative ermittivity (real part)	54.464
Relative ermittivity (imaginary part)	15.411
Conductivity (S/m)	1.502

C. SAR Surface and Volume

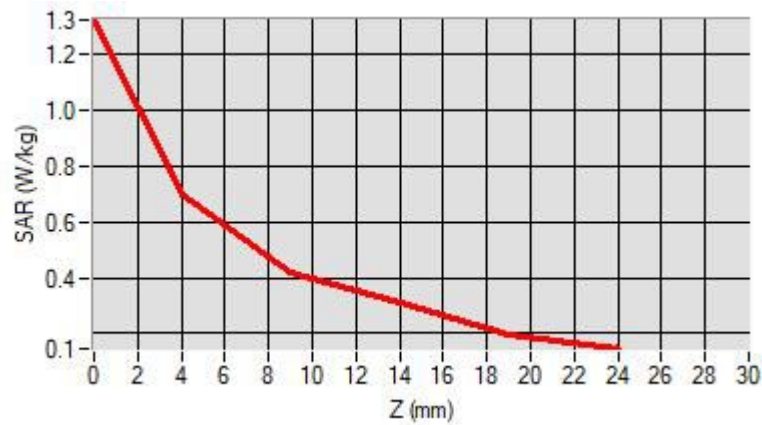


D. SAR 1g & 10g

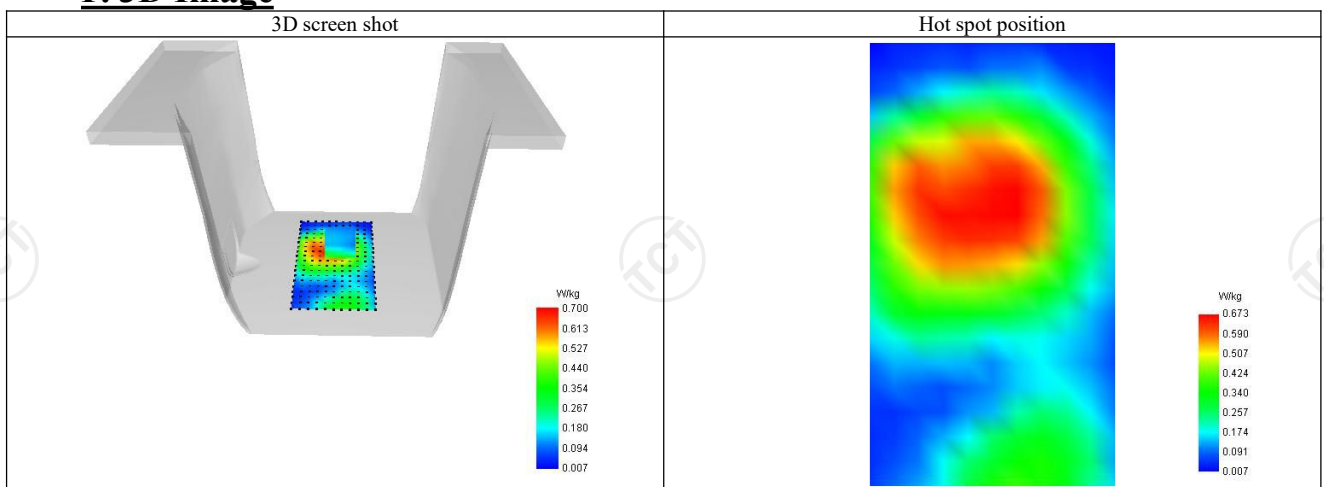
SAR 10g (W/Kg)	0.441
SAR 1g (W/Kg)	0.673
Variation (%)	-1.370
Horizontal validation criteria : minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.323	0.700	0.418	0.309	0.197



F. 3D Image



LTE Band 66-Front-of-face

SAR Measurement at LTE band 66 (Body, Validation Plane)

Date of measurement: 11/10/2022

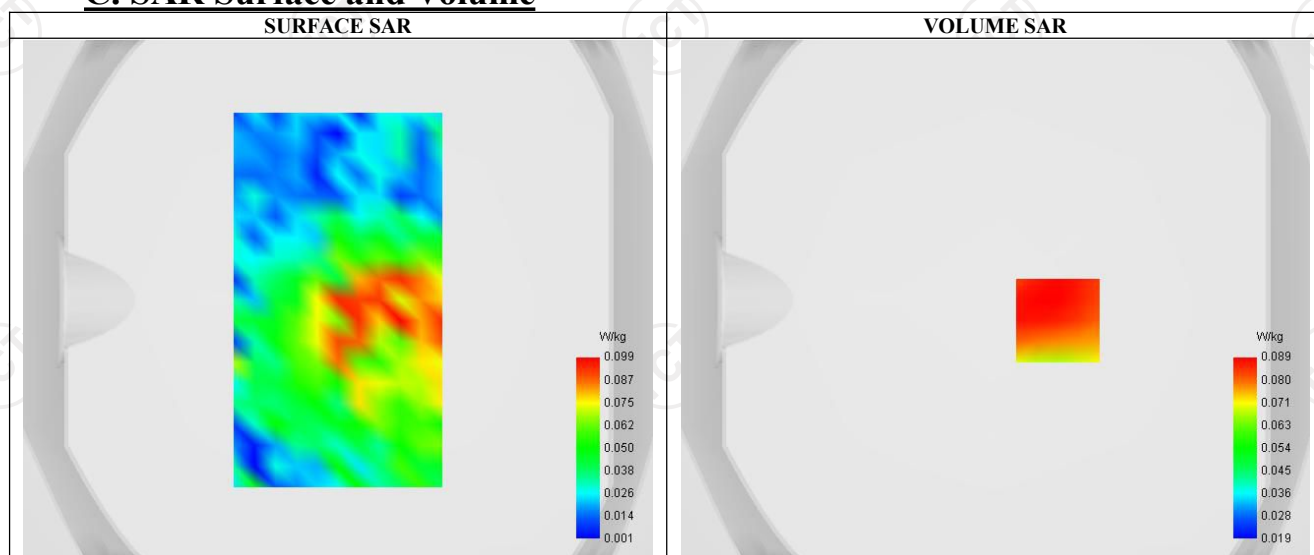
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPGO346)
ConvF	2.16
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	Lower (132072)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM – QPSK
RB offset	49
RB size	1

B. Permittivity

Frequency (MHz)	1720.000
Relative ermittivity (real part)	54.464
Relative ermittivity (imaginary part)	15.411
Conductivity (S/m)	1.502

C. SAR Surface and Volume



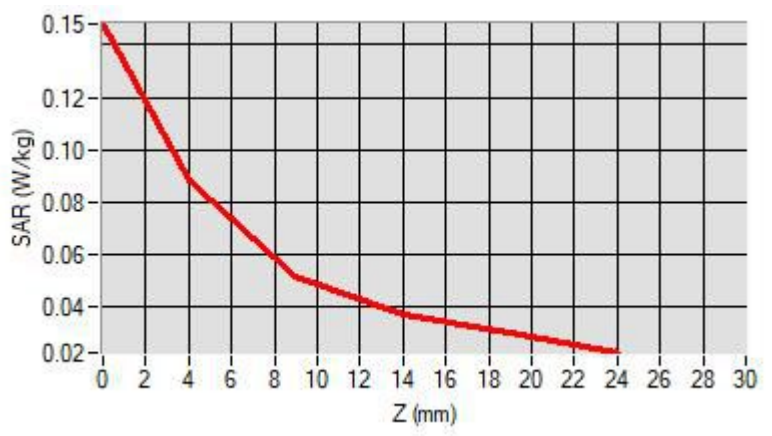
Maximum location: X=24.00, Y=-8.00 ; SAR Peak: 0.13 W/kg

D. SAR 1g & 10g

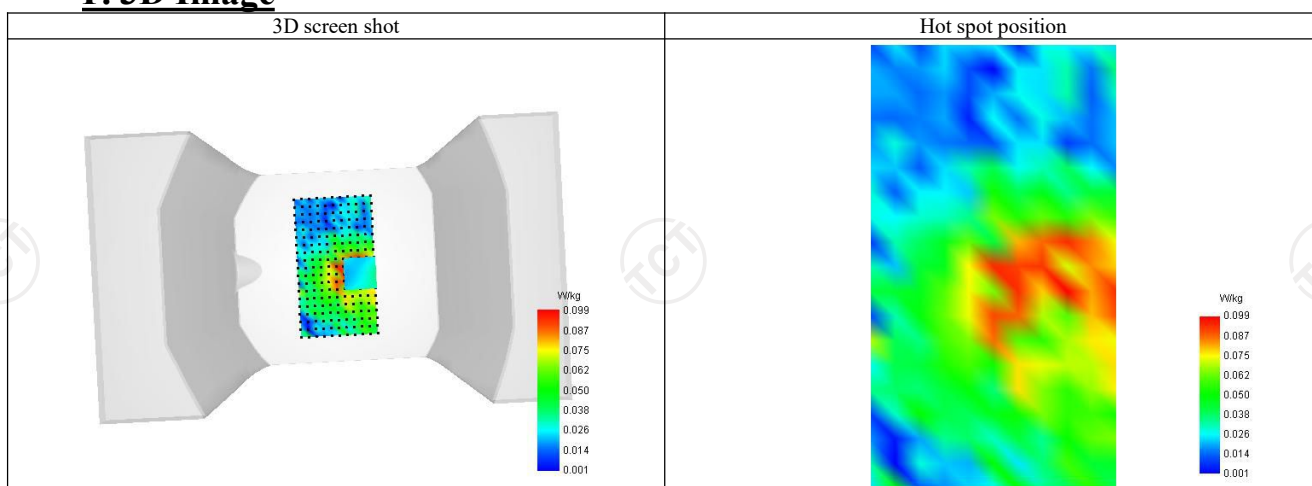
SAR 10g (W/Kg)	0.060
SAR 1g (W/Kg)	0.087
Variation (%)	-0.920
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.148	0.089	0.052	0.037	0.030



F. 3D Image



LTE Band 71-Body

SAR Measurement at LTE band 71 (Body, Validation Plane)

Date of measurement: 10/10/2022

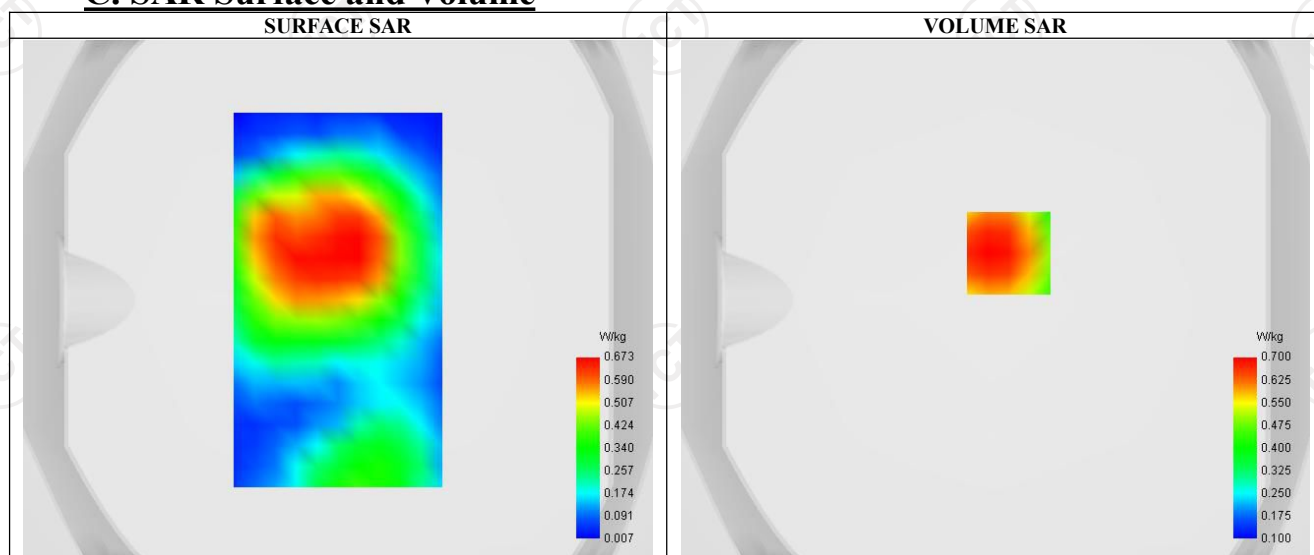
F. Experimental conditions.

Probe	SSE2 (SN 36/20 EPGO346)
ConvF	1.78
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 71
Channels	Lower (133222)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM – QPSK
RB offset	49
RB size	1

B. Permittivity

Frequency (MHz)	673.000
Relative ermittivity (real part)	55.381
Relative ermittivity (imaginary part)	20.148
Conductivity (S/m)	0.921

C. SAR Surface and Volume



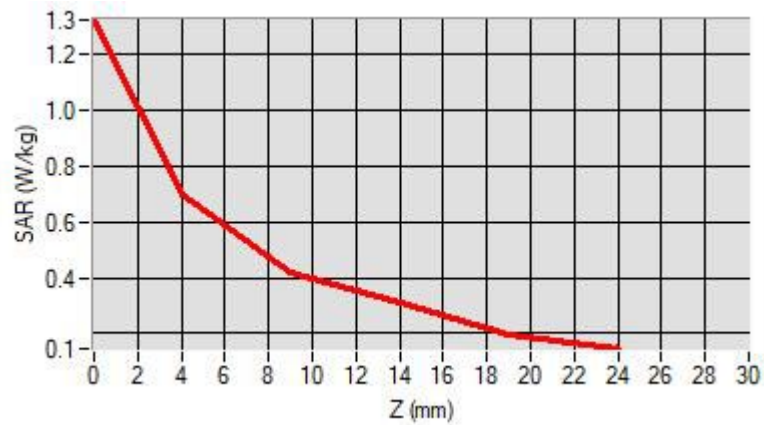
Maximum location: X=5.00, Y=18.00 ; SAR Peak: 0.97 W/kg

D. SAR 1g & 10g

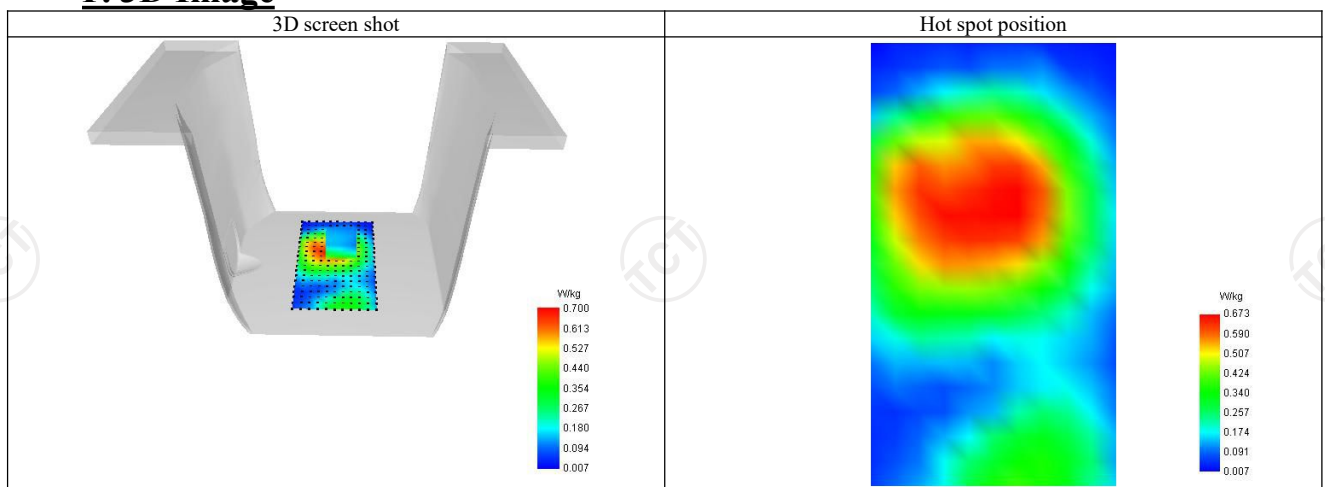
SAR 10g (W/Kg)	0.441
SAR 1g (W/Kg)	0.601
Variation (%)	1.300
Horizontal validation criteria : minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.323	0.700	0.418	0.309	0.197



F. 3D Image



LTE Band 71-Front-of-face

SAR Measurement at LTE band 71 (Body, Validation Plane)

Date of measurement: 10/10/2022

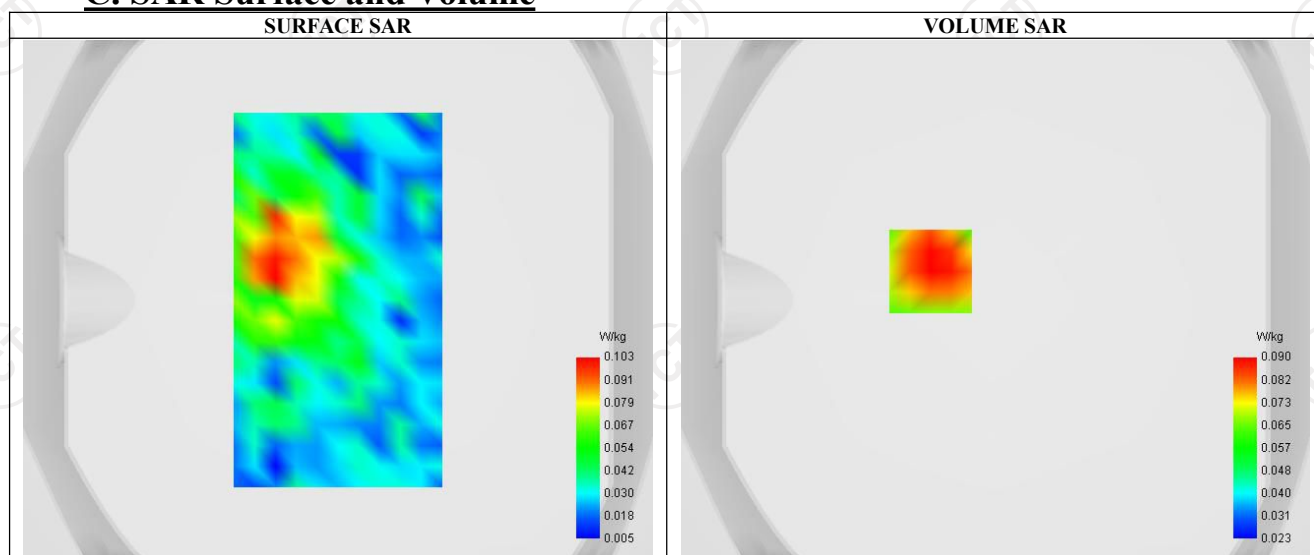
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	1.78
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 71
Channels	Lower (133222)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM – QPSK
RB offset	49
RB size	1

B. Permittivity

Frequency (MHz)	673.000
Relative ermittivity (real part)	55.381
Relative ermittivity (imaginary part)	20.148
Conductivity (S/m)	0.921

C. SAR Surface and Volume



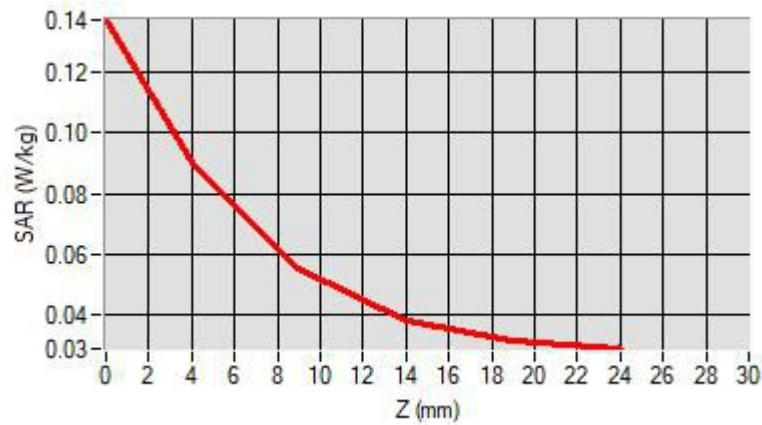
Maximum location: X=-25.00, Y=11.00 ; SAR Peak: 0.14 W/kg

D. SAR 1g & 10g

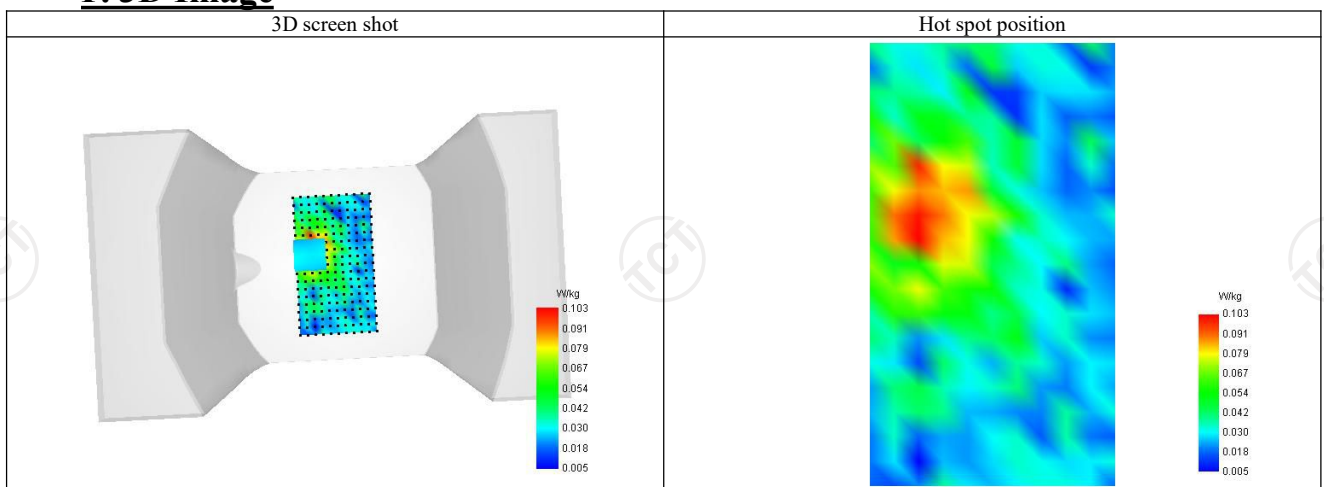
SAR 10g (W/Kg)	0.059
SAR 1g (W/Kg)	0.090
Variation (%)	1.380
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.137	0.090	0.055	0.038	0.031



F. 3D Image



2.4G WIFI: Body

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

Date of measurement: 12/10/2022

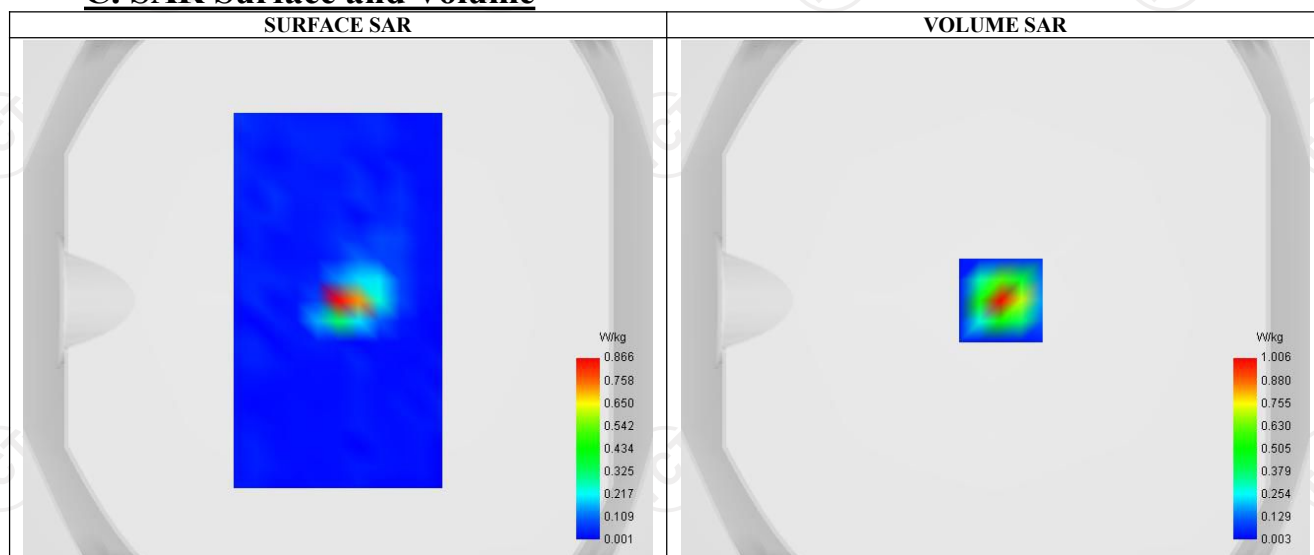
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPGO346)
ConvF	2.37
Area Scan	surf sam plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11b ISM
Channels	Higher (11)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	2462.000
Relative permittivity (real part)	52.141
Relative permittivity (imaginary part)	14.275
Conductivity (S/m)	2.032

C. SAR Surface and Volume



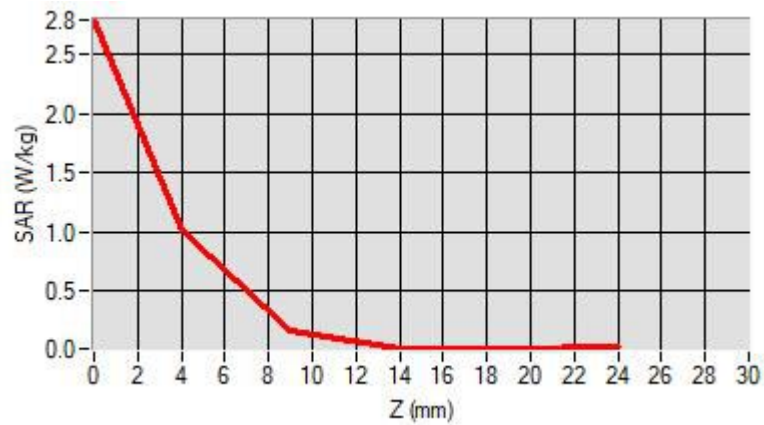
Maximum location: X=2.00, Y=0.00 ; SAR Peak: 2.79 W/kg

D. SAR 1g & 10g

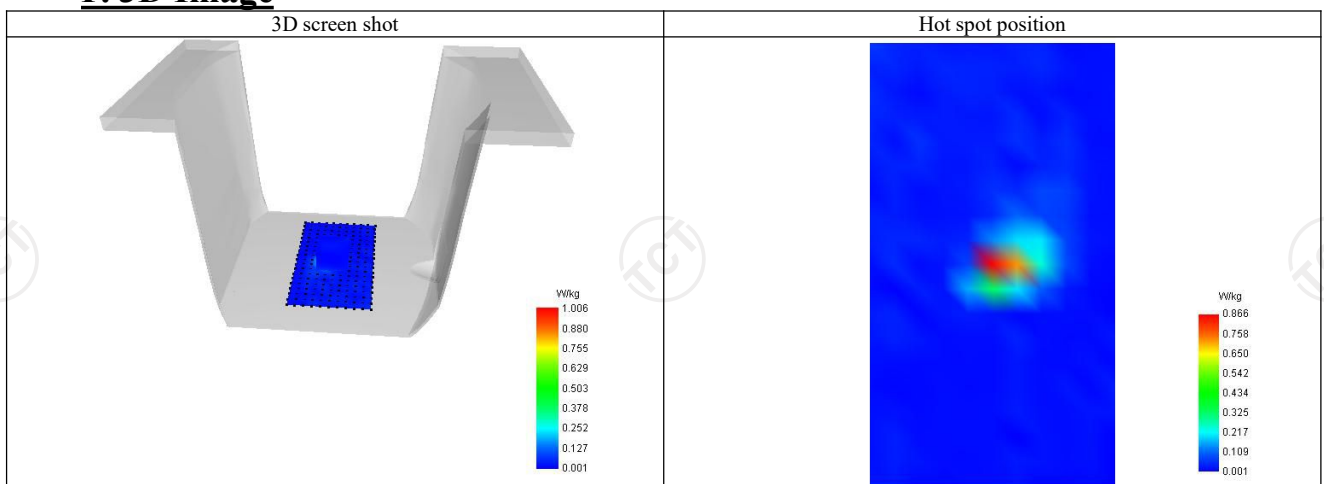
SAR 10g (W/Kg)	0.297
SAR 1g (W/Kg)	0.790
Variation (%)	1.001
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	2.797	1.006	0.168	0.013	0.006



F. 3D Image



2.4G WIFI: Front-of-face

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

Date of measurement: 12/10/2022

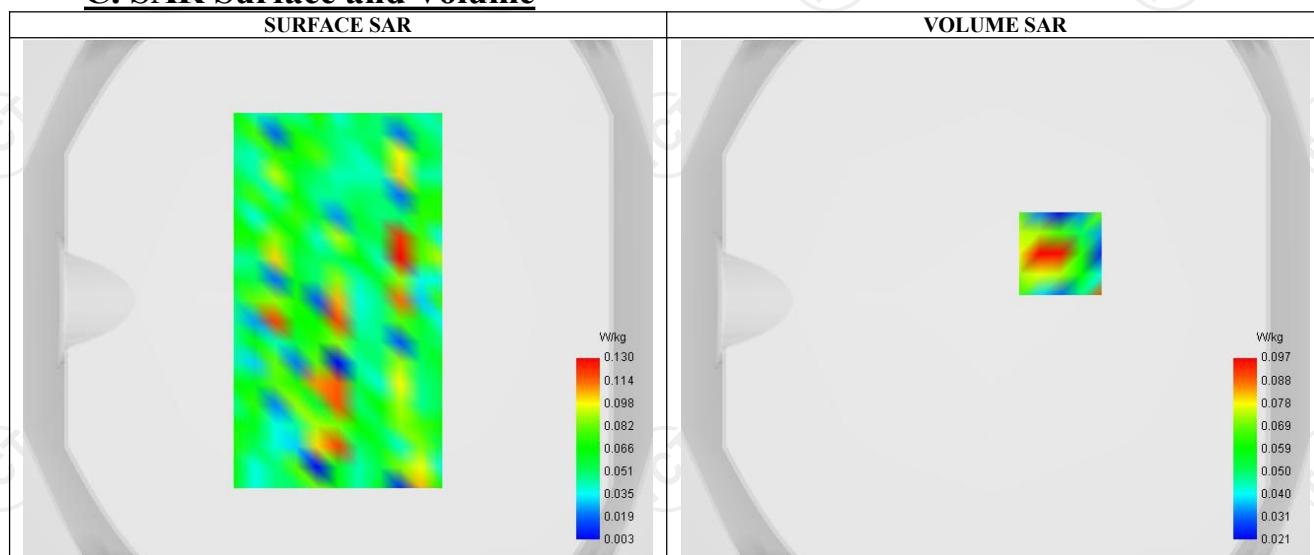
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	2.37
Area Scan	surf sam plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11b ISM
Channels	Higher (11)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	2462.000
Relative permittivity (real part)	52.141
Relative permittivity (imaginary part)	14.275
Conductivity (S/m)	2.032

C. SAR Surface and Volume



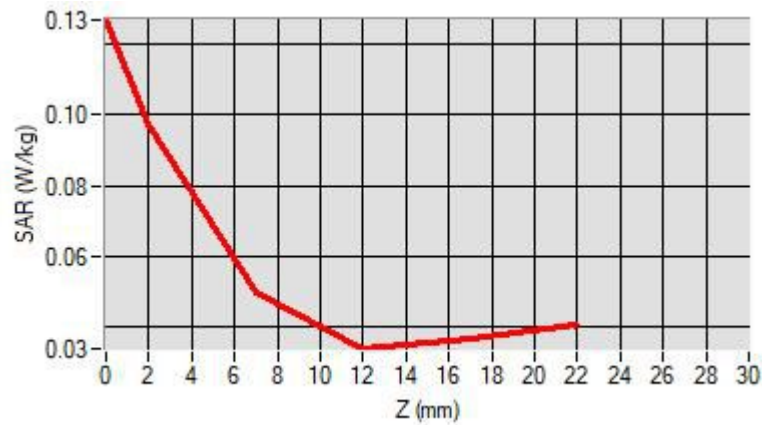
Maximum location: X=25.00, Y=18.00 ; SAR Peak: 0.14 W/kg

D. SAR 1g & 10g

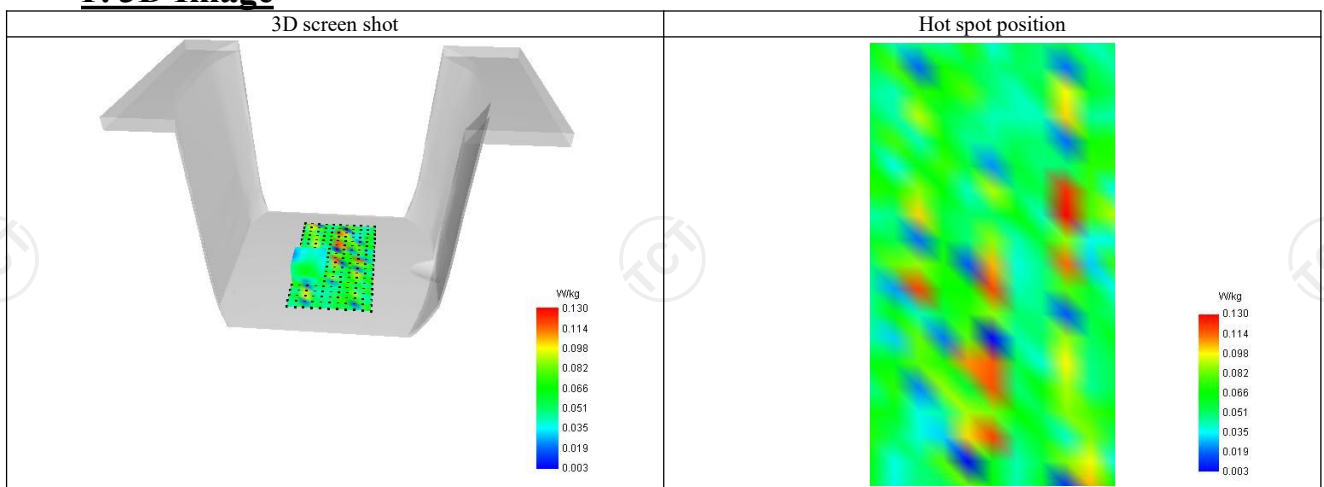
SAR 10g (W/Kg)	0.076
SAR 1g (W/Kg)	0.094
Variation (%)	1.125
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	2.00	7.00	12.00	17.00
SAR (W/Kg)	0.127	0.097	0.050	0.034	0.037



F. 3D Image



5G WIFI U-NII-1: Body

SAR Measurement at IEEE 802.11ac U-NII (Body, Validation Plane)

Date of measurement: 13/10/2022

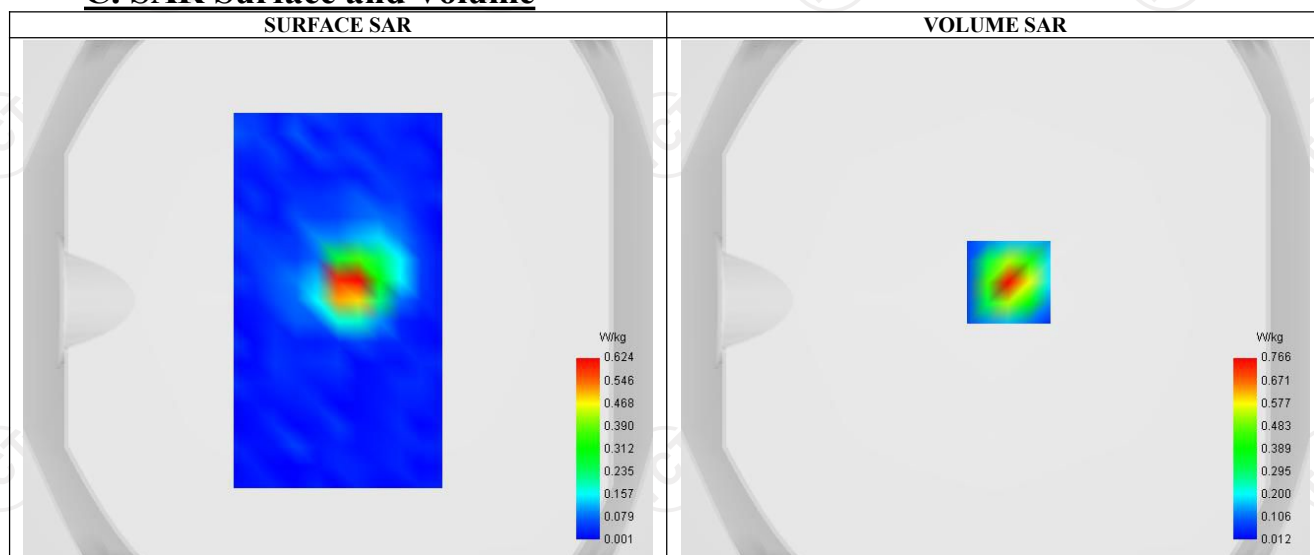
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	2.08
Area Scan	surf sam plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11ac U-NII
Channels	Middle (44)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5220.000
Relative permittivity (real part)	49.522
Relative permittivity (imaginary part)	21.378
Conductivity (S/m)	5.439

C. SAR Surface and Volume



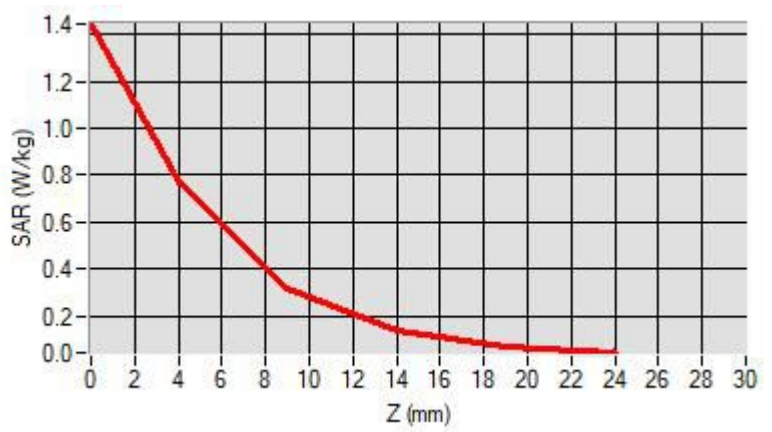
Maximum location: X=5.00, Y=7.00 ; SAR Peak: 1.45 W/kg

D. SAR 1g & 10g

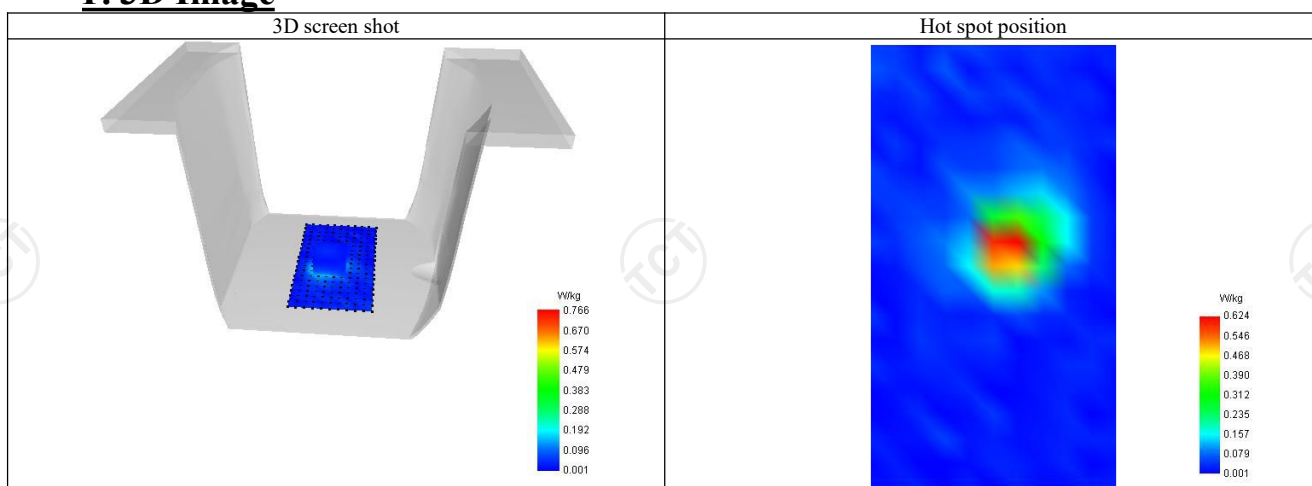
SAR 10g (W/Kg)	0.280
SAR 1g (W/Kg)	0.588
Variation (%)	-0.930
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.444	0.766	0.320	0.134	0.069



F. 3D Image



5G WIFI U-NII-1: Front-of-face

SAR Measurement at IEEE 802.11ac U-NII (Body, Validation Plane)

Date of measurement: 13/10/2022

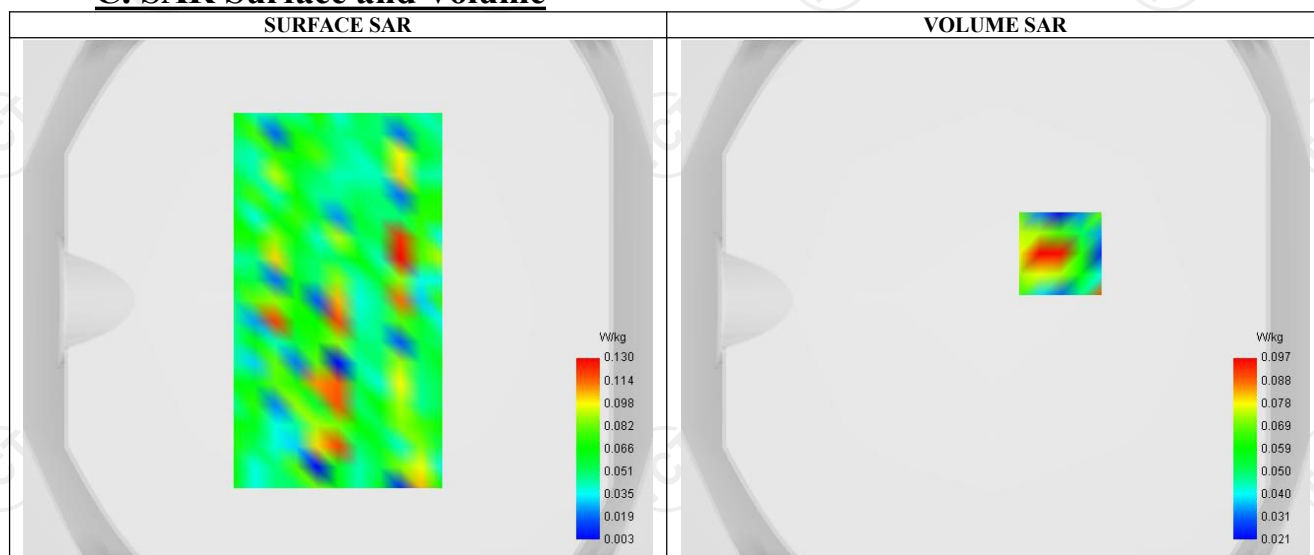
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	2.08
Area Scan	surf sam plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11ac U-NII
Channels	Middle (44)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5220.000
Relative permittivity (real part)	49.522
Relative permittivity (imaginary part)	21.378
Conductivity (S/m)	5.439

C. SAR Surface and Volume



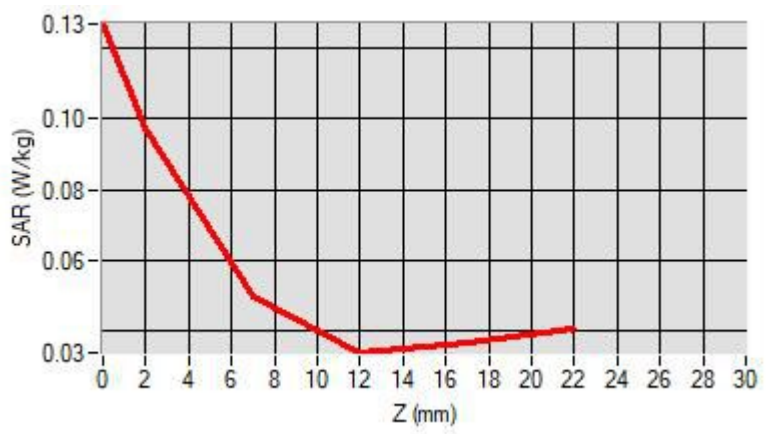
Maximum location: X=25.00, Y=18.00 ; SAR Peak: 0.14 W/kg

D. SAR 1g & 10g

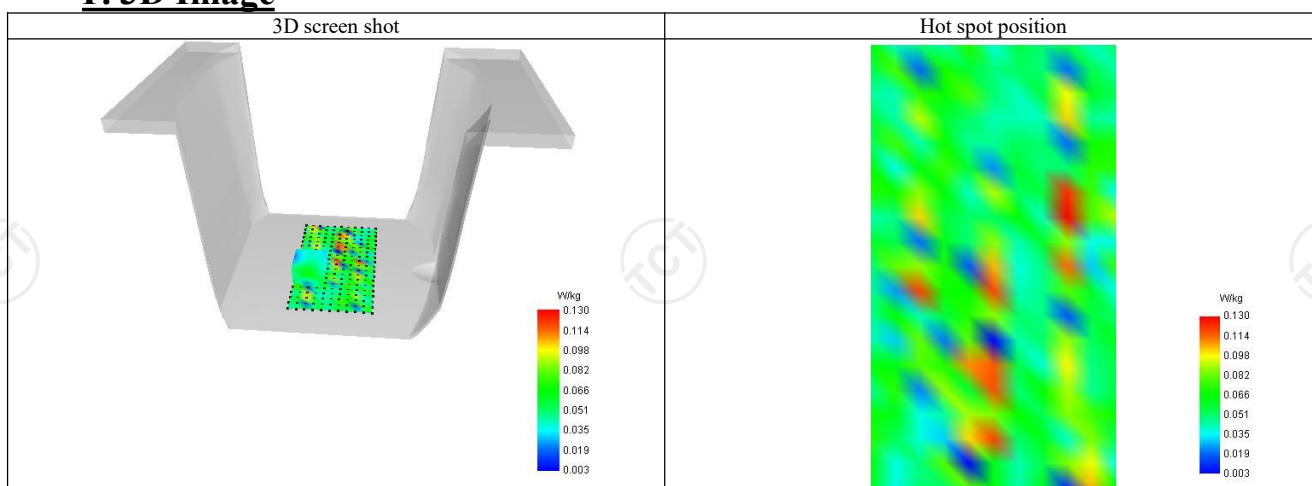
SAR 10g (W/Kg)	0.066
SAR 1g (W/Kg)	0.091
Variation (%)	-1.001
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	2.00	7.00	12.00	17.00
SAR (W/Kg)	0.127	0.097	0.050	0.034	0.037



F. 3D Image



5G WIFI U-NII-2a: Body

SAR Measurement at IEEE 802.11ac U-NII (Body, Validation Plane)

Date of measurement: 13/10/2022

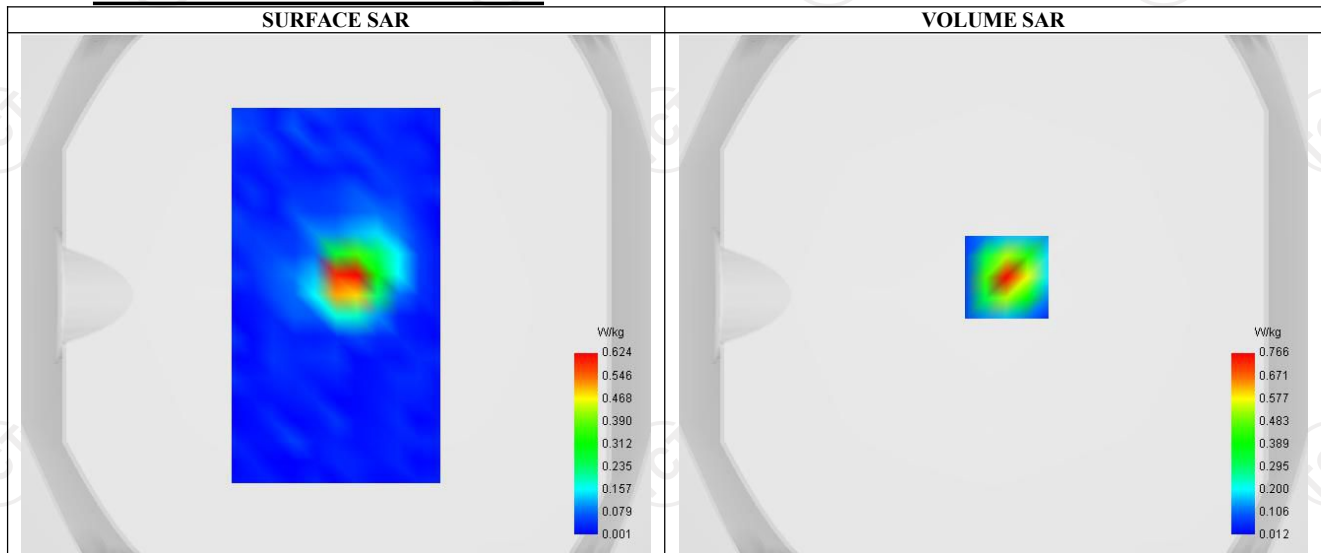
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	1.99
Area Scan	surf sam plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11ac U-NII
Channels	Lower (52)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5260.000
Relative permittivity (real part)	49.013
Relative permittivity (imaginary part)	15.200
Conductivity (S/m)	5.460

C. SAR Surface and Volume



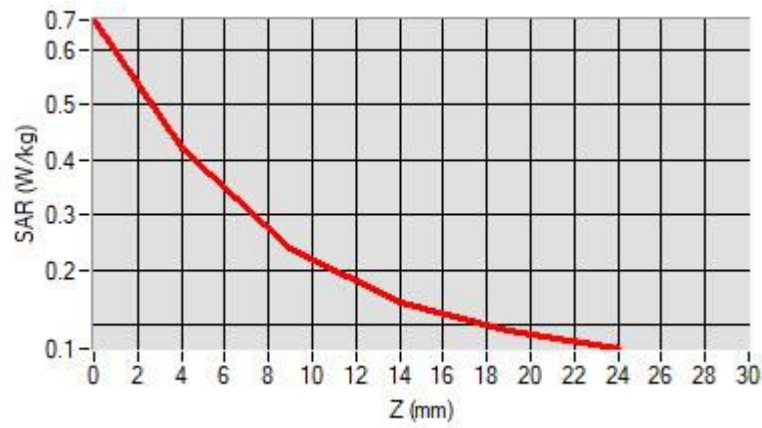
Maximum location: X=0.00, Y=-17.00 ; SAR Peak: 0.66 W/kg

D. SAR 1g & 10g

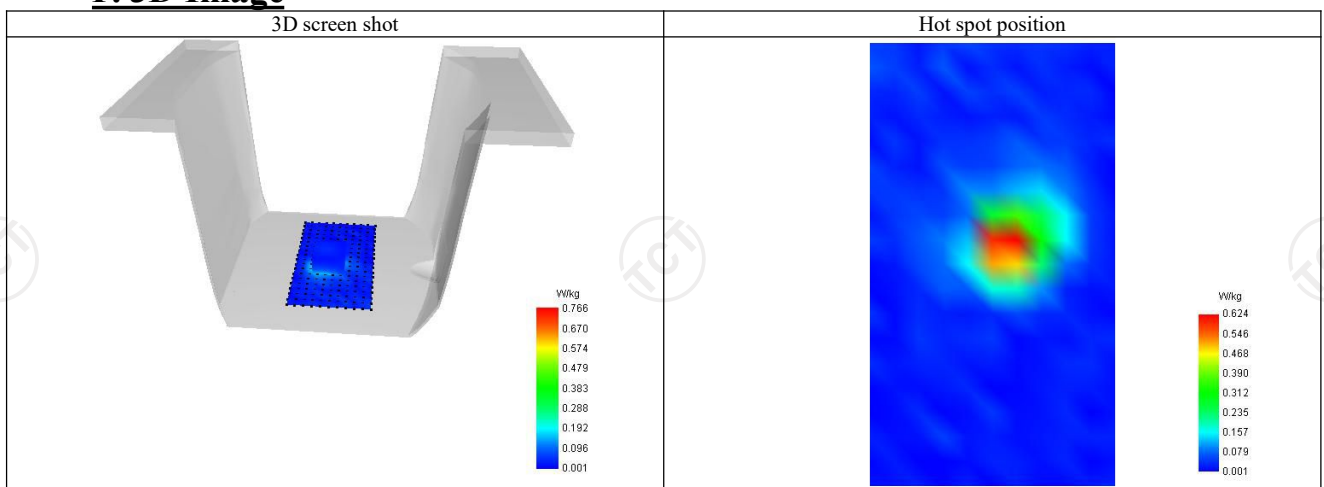
SAR 10g (W/Kg)	0.212
SAR 1g (W/Kg)	0.397
Variation (%)	-0.390
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.655	0.421	0.239	0.139	0.087



F. 3D Image



5G WIFI U-NII-2a: Front-of-face

SAR Measurement at IEEE 802.11ac U-NII (Body, Validation Plane)

Date of measurement: 13/10/2022

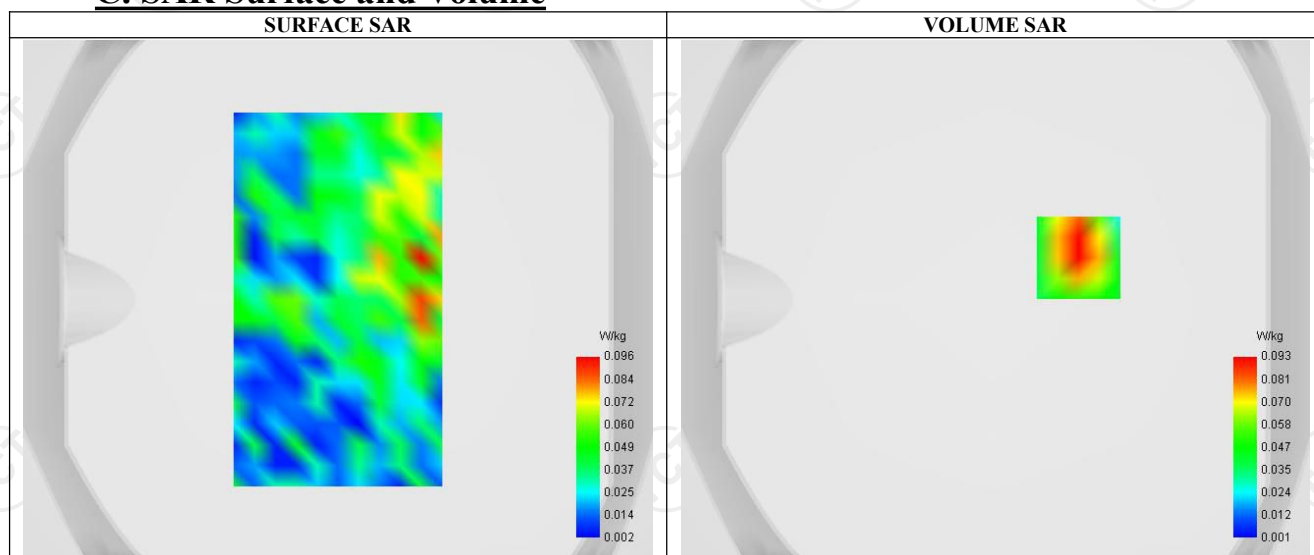
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	1.99
Area Scan	surf sam plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11ac U-NII
Channels	Lower (52)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5260.000
Relative permittivity (real part)	49.013
Relative permittivity (imaginary part)	15.200
Conductivity (S/m)	5.460

C. SAR Surface and Volume

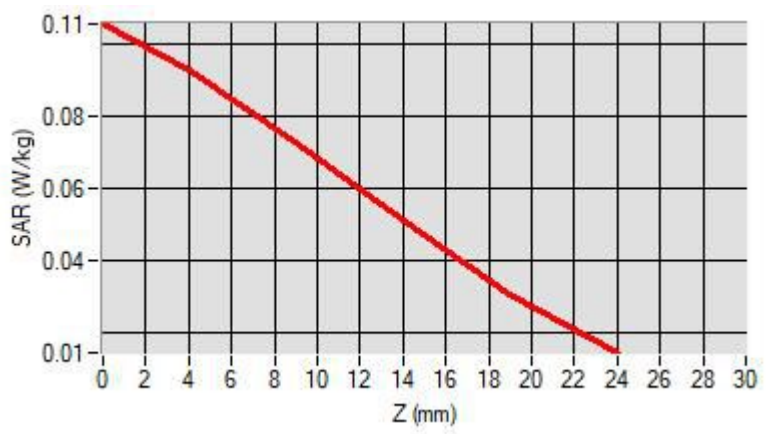


D. SAR 1g & 10g

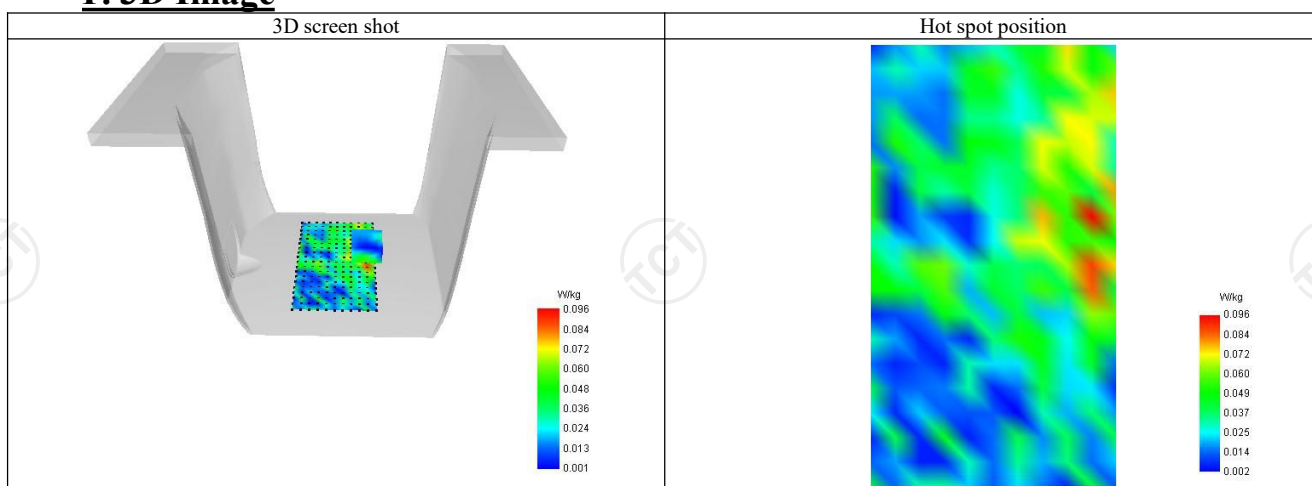
SAR 10g (W/Kg)	0.053
SAR 1g (W/Kg)	0.098
Variation (%)	-2.580
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.106	0.093	0.073	0.051	0.031



F. 3D Image



5G WIFI U-NII-2c: Body

SAR Measurement at IEEE 802.11n U-NII (Body, Validation Plane)

Date of measurement: 13/10/2022

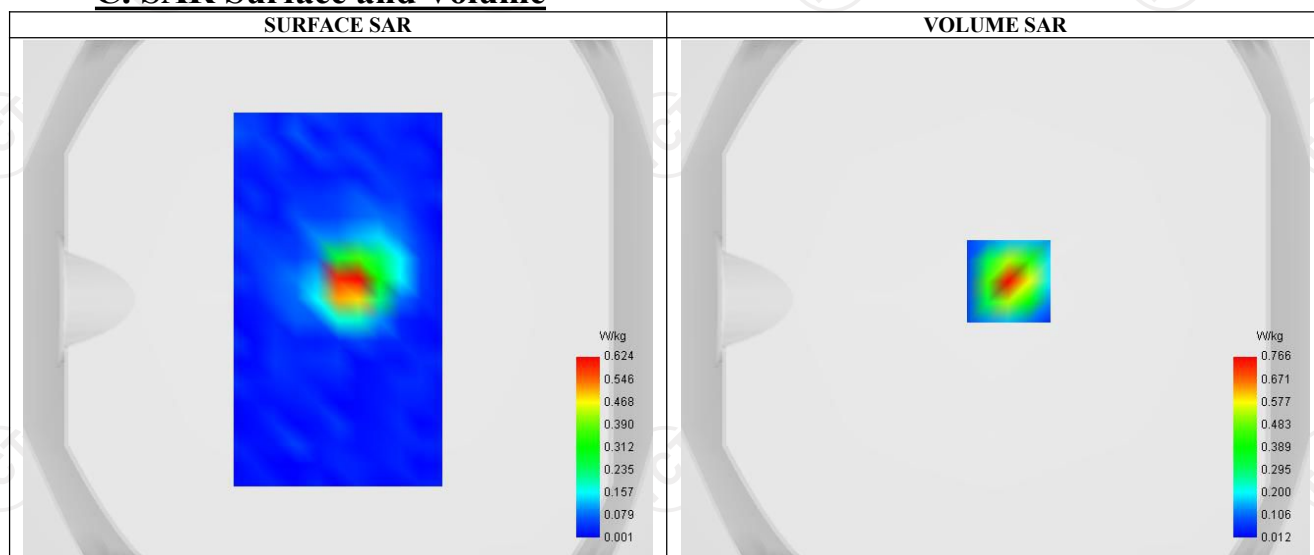
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	2.12
Area Scan	surf sam plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11n U-NII
Channels	Middle (110)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5550.000
Relative permittivity (real part)	47.805
Relative permittivity (imaginary part)	14.329
Conductivity (S/m)	5.530

C. SAR Surface and Volume



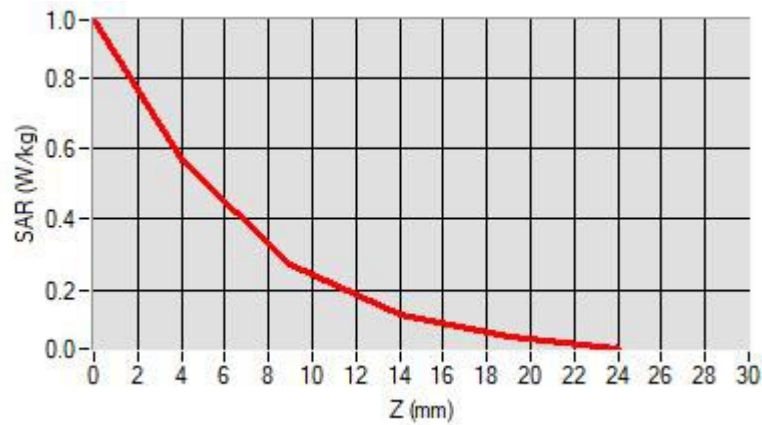
Maximum location: X=-13.00, Y=5.00 ; SAR Peak: 0.98 W/kg

D. SAR 1g & 10g

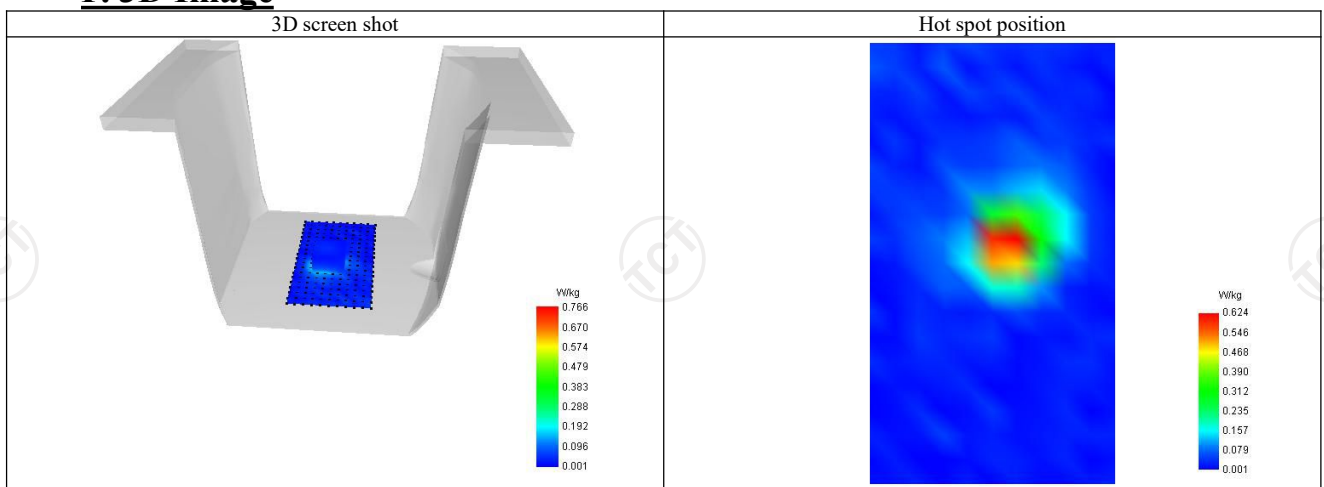
SAR 10g (W/Kg)	0.246
SAR 1g (W/Kg)	0.522
Variation (%)	-3.570
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.965	0.566	0.275	0.132	0.067



F. 3D Image



5G WIFI U-NII-2c: Front-of-face

SAR Measurement at IEEE 802.11n U-NII (Body, Validation Plane)

Date of measurement: 13/10/2022

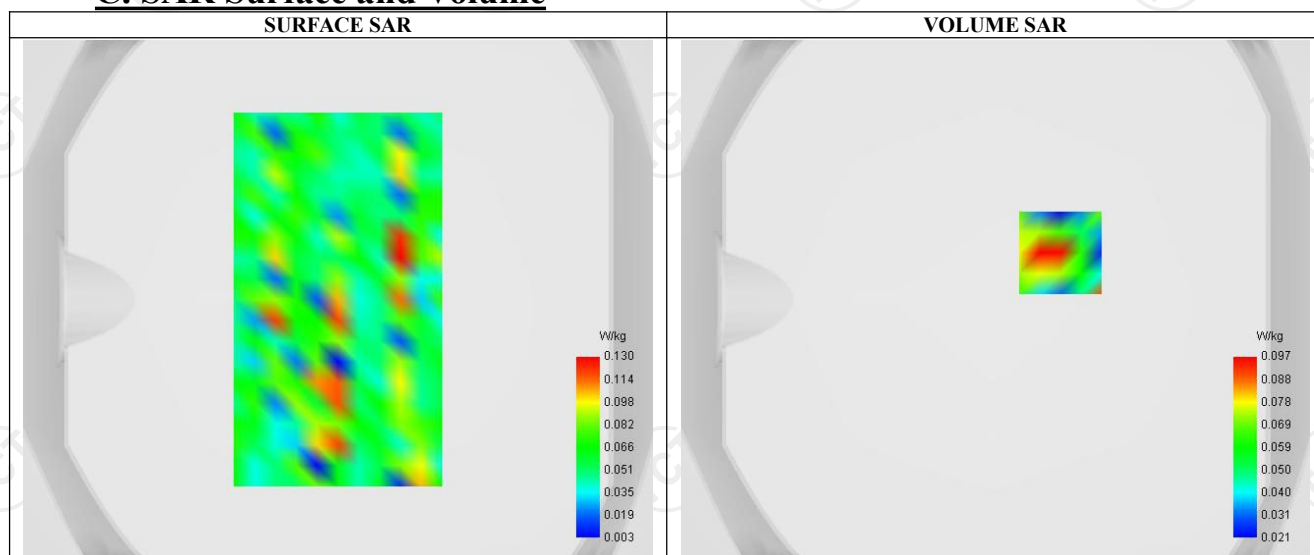
A. Experimental conditions.

Probe	SSE2 (SN 36/20 EPG0346)
ConvF	2.12
Area Scan	surf sam plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11n U-NII
Channels	Middle (110)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5550.000
Relative permittivity (real part)	47.805
Relative permittivity (imaginary part)	14.329
Conductivity (S/m)	5.530

C. SAR Surface and Volume



D. SAR 1g & 10g

SAR 10g (W/Kg)	0.059
SAR 1g (W/Kg)	0.082
Variation (%)	1.550
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	2.00	7.00	12.00	17.00
SAR (W/Kg)	0.127	0.097	0.050	0.034	0.037