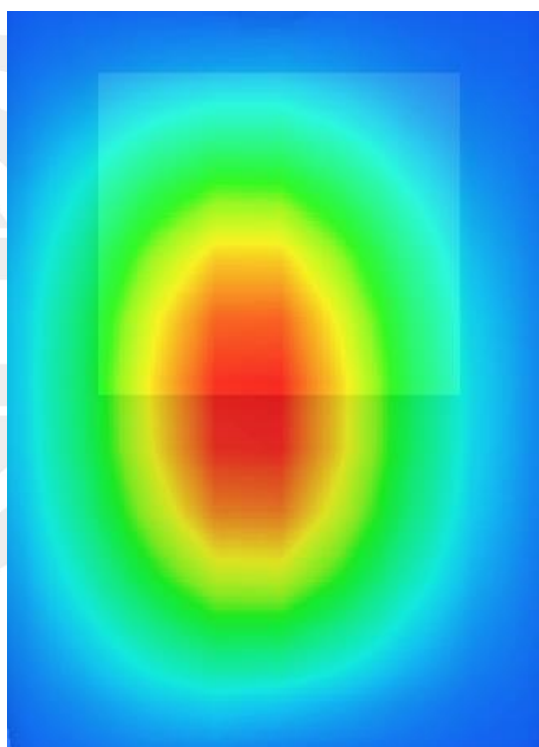
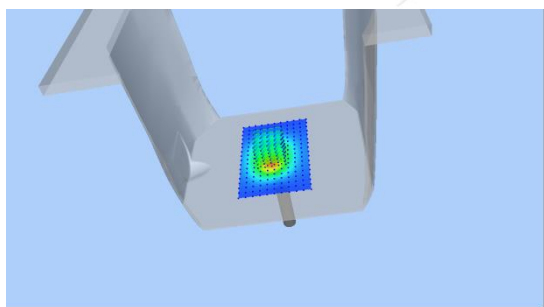
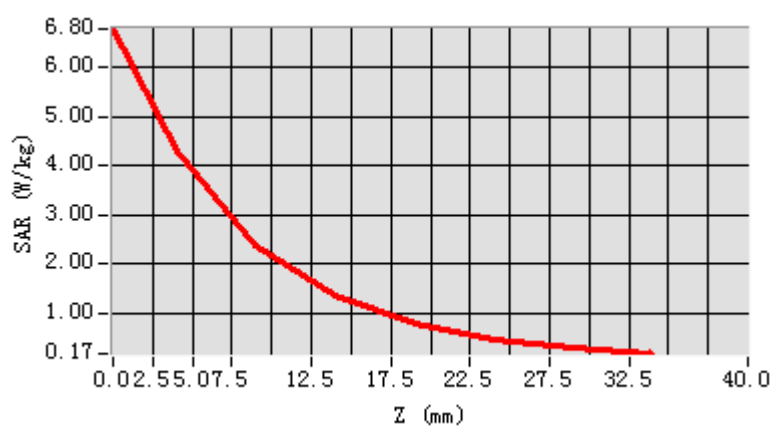


Z Axis Scan



**System Performance Check Data (2450MHz Body)**

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

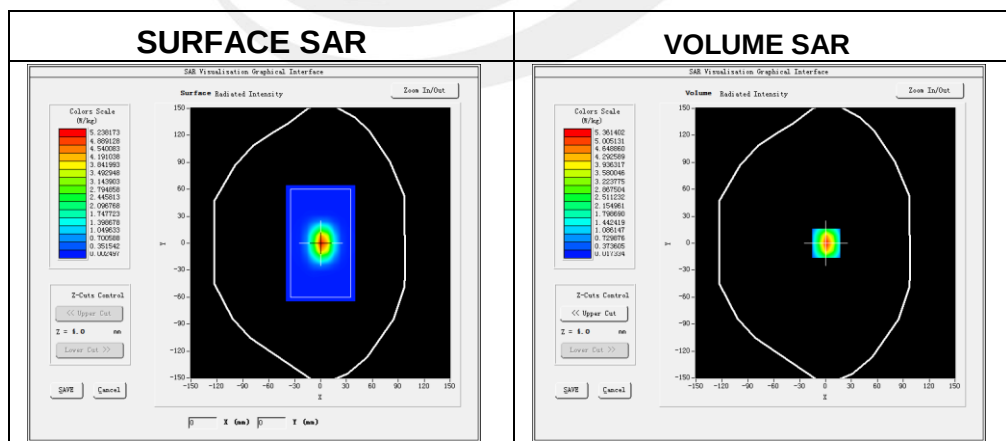
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2018-12-06

Measurement duration: 14 minutes 23 seconds

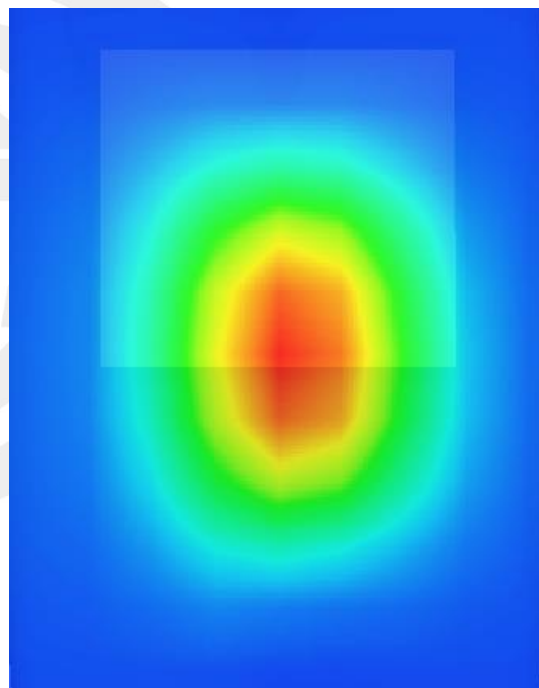
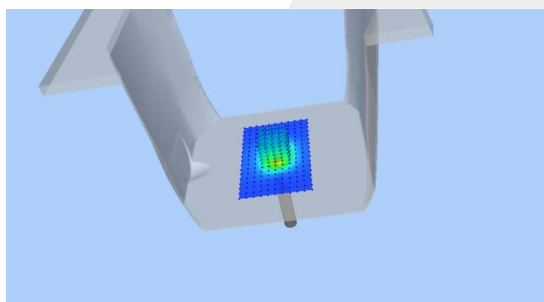
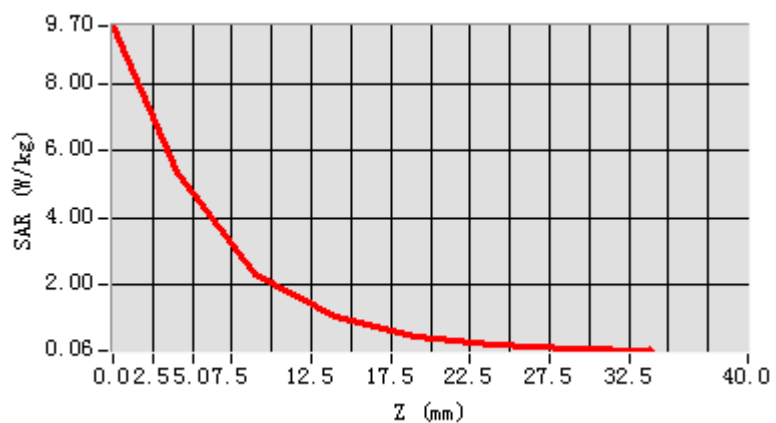
Experimental conditions.

Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity	51.57
Conductivity (S/m)	1.92
Power drift (%)	-0.30
Probe	SN 45/15 EPGO281
ConvF	2.28
Crest factor:	1:1

**Maximum location: X=1.00, Y=0.00**

SAR 10g (W/Kg)	2.410178
SAR 1g (W/Kg)	5.320687

Z Axis Scan



**System Performance Check Data(2600MHz Body)**

Type: Phone measurement (Complete)

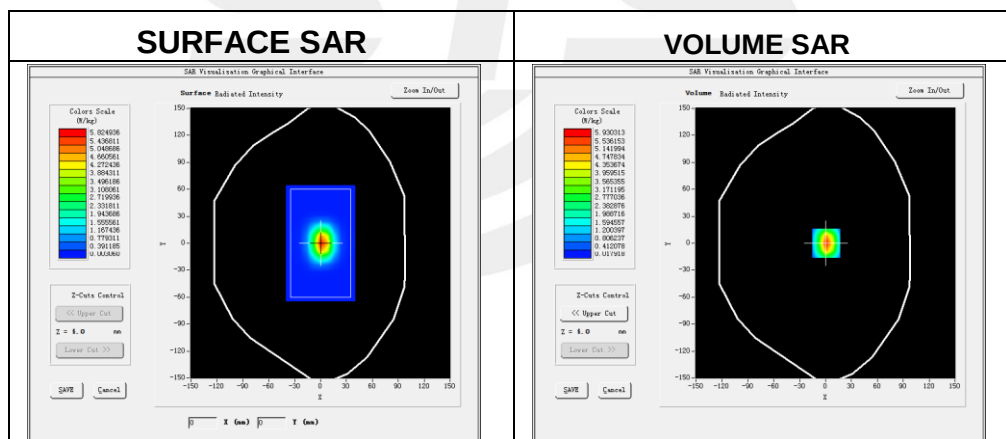
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2018-12-08

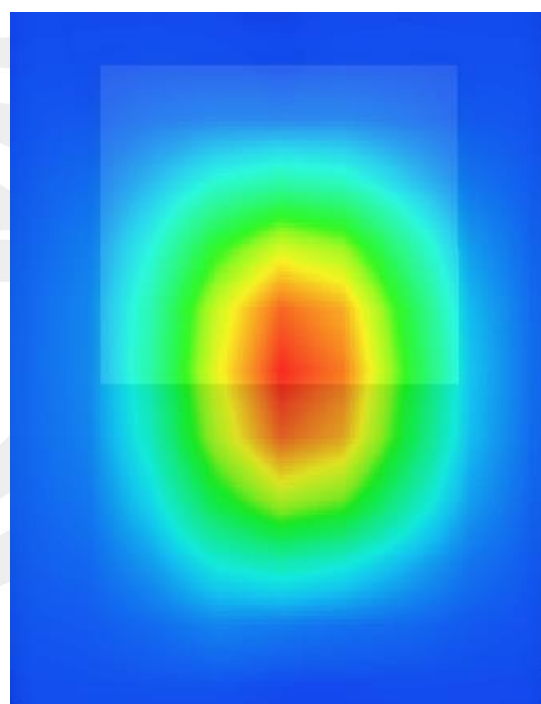
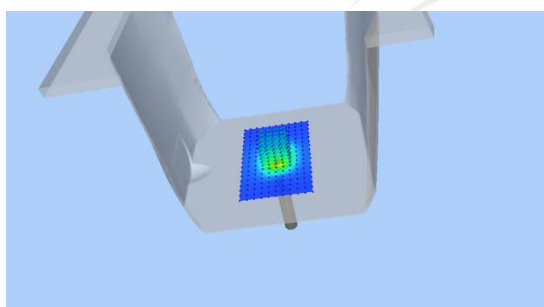
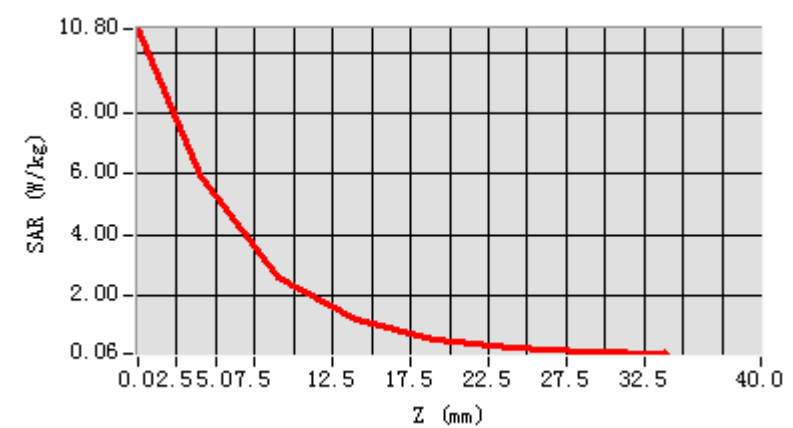
Experimental conditions.

Device Position	Validation plane
Band	2600 MHz
Channels	-
Signal	CW
Frequency (MHz)	2600
Relative permittivity	51.69
Conductivity (S/m)	2.15
Power drift (%)	-0.30
Probe	SN 45/15 EPGO281
ConvF	2.38
Crest factor:	1:1

**Maximum location: X=3.00, Y=1.00**

SAR 10g (W/Kg)	2.610147
SAR 1g (W/Kg)	5.986347

Z Axis Scan



**System Performance Check Data(5200MHz Body)**

Type: Phone measurement (Complete)

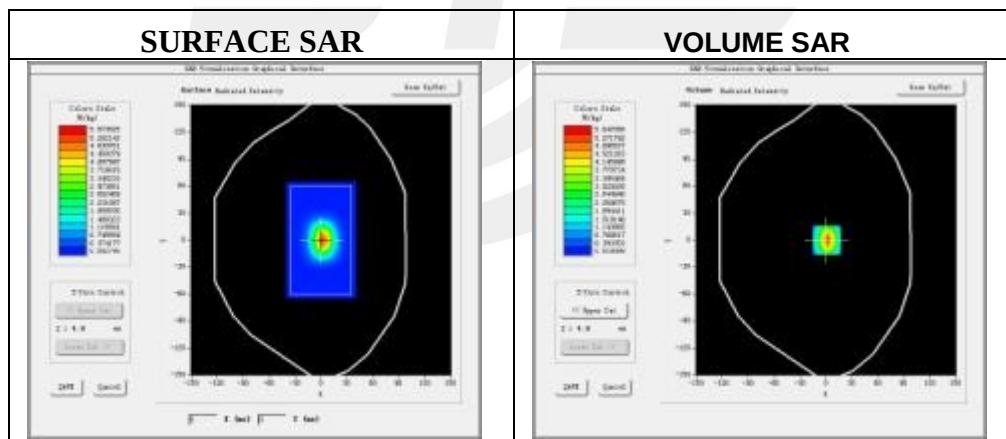
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2018-12-09

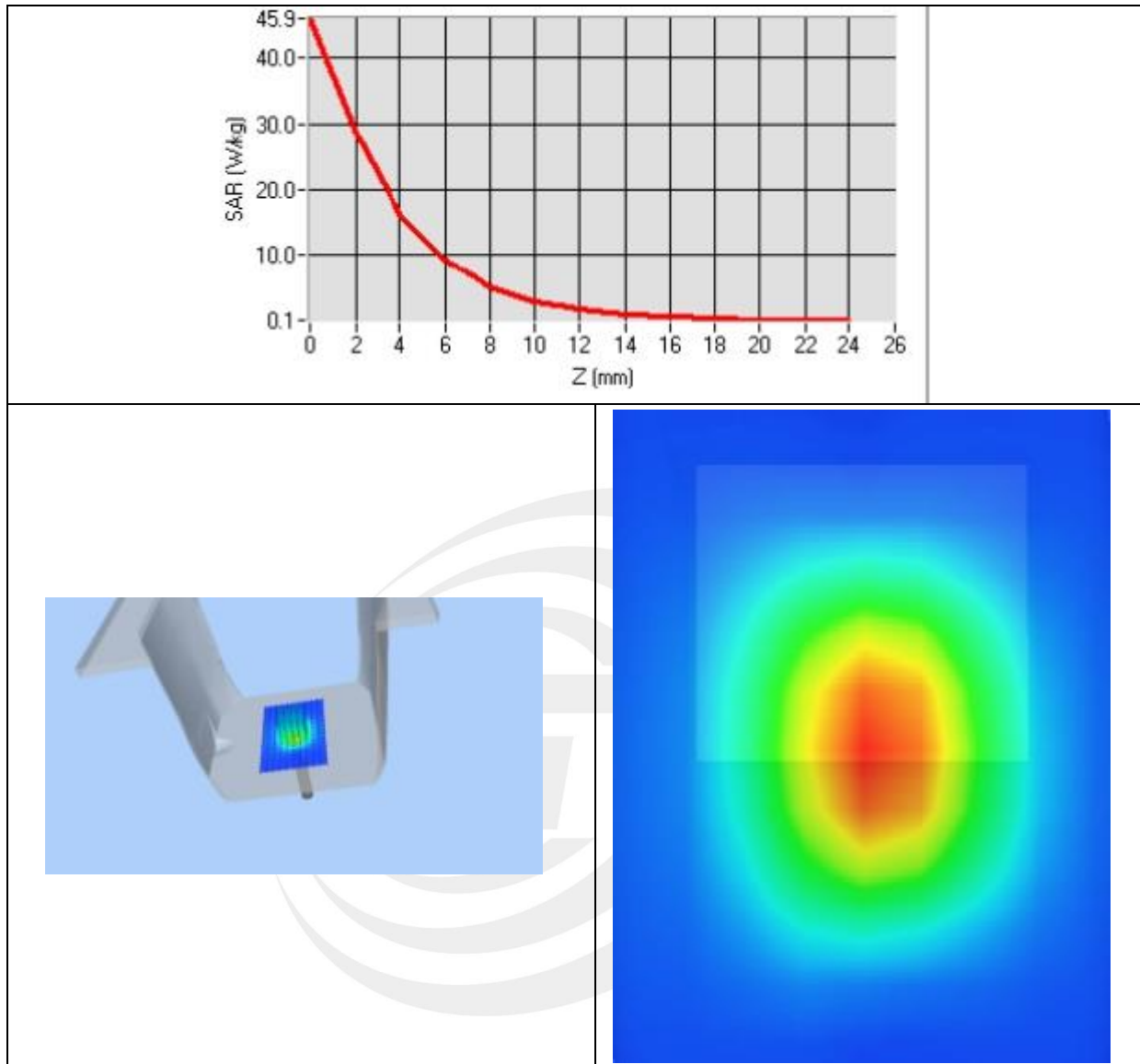
Experimental conditions.

Device Position	Validation plane
Band	5200 MHz
Channels	-
Signal	CW
Frequency (MHz)	5200
Relative permittivity	48.61
Conductivity (S/m)	5.27
Power drift (%)	2.52
Probe	SN 45/15 EPGO281
ConvF	2.52
Crest factor:	1:1

**Maximum location: X=7.00, Y=2.00**

SAR 10g (W/Kg)	5.433627
SAR 1g (W/Kg)	15.849223

Z Axis Scan





Appendix B. SAR Test Plots

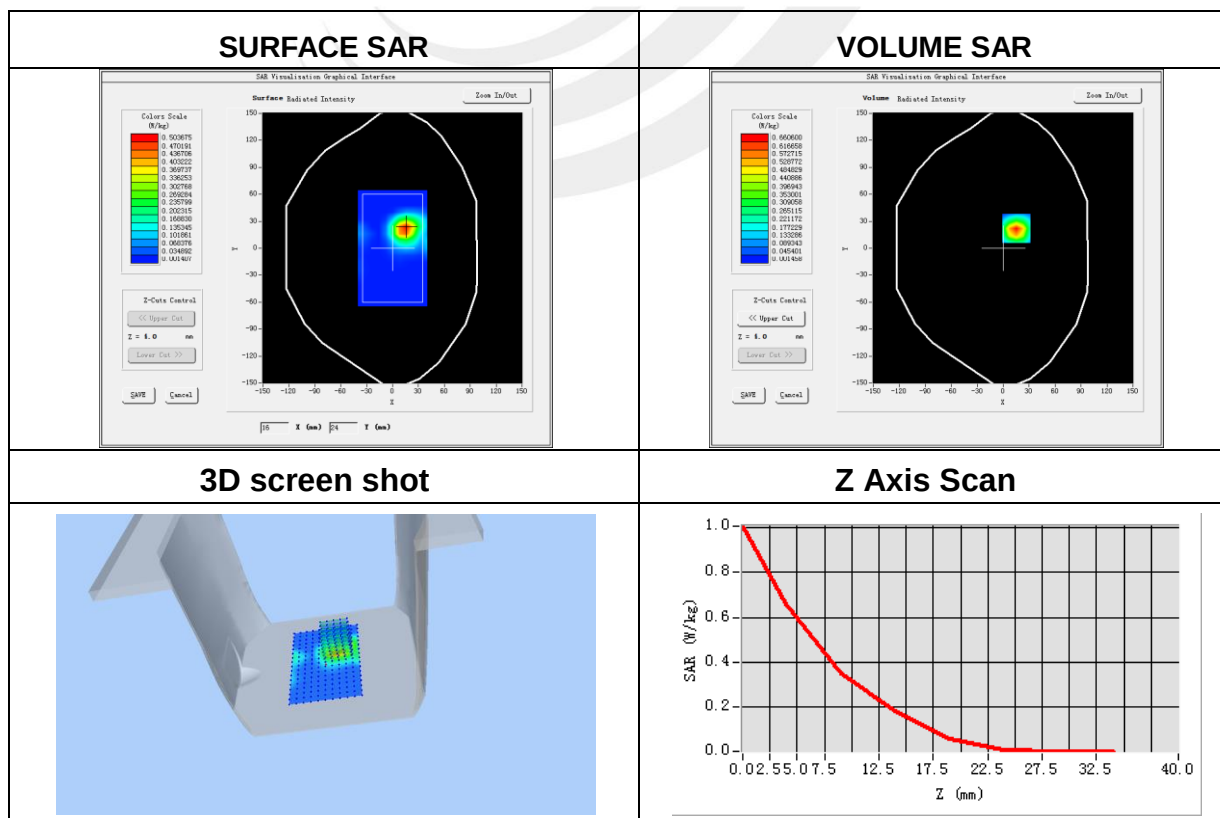
Plot 1: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-11-17
Probe	SN 45/15 EPGO281
ConvF	2.16
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	WCDMA II
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-1.95

Maximum location: X=15.00, Y=22.00

SAR Peak: 1.03 W/kg

SAR 10g (W/Kg)	0.267618
SAR 1g (W/Kg)	0.606630



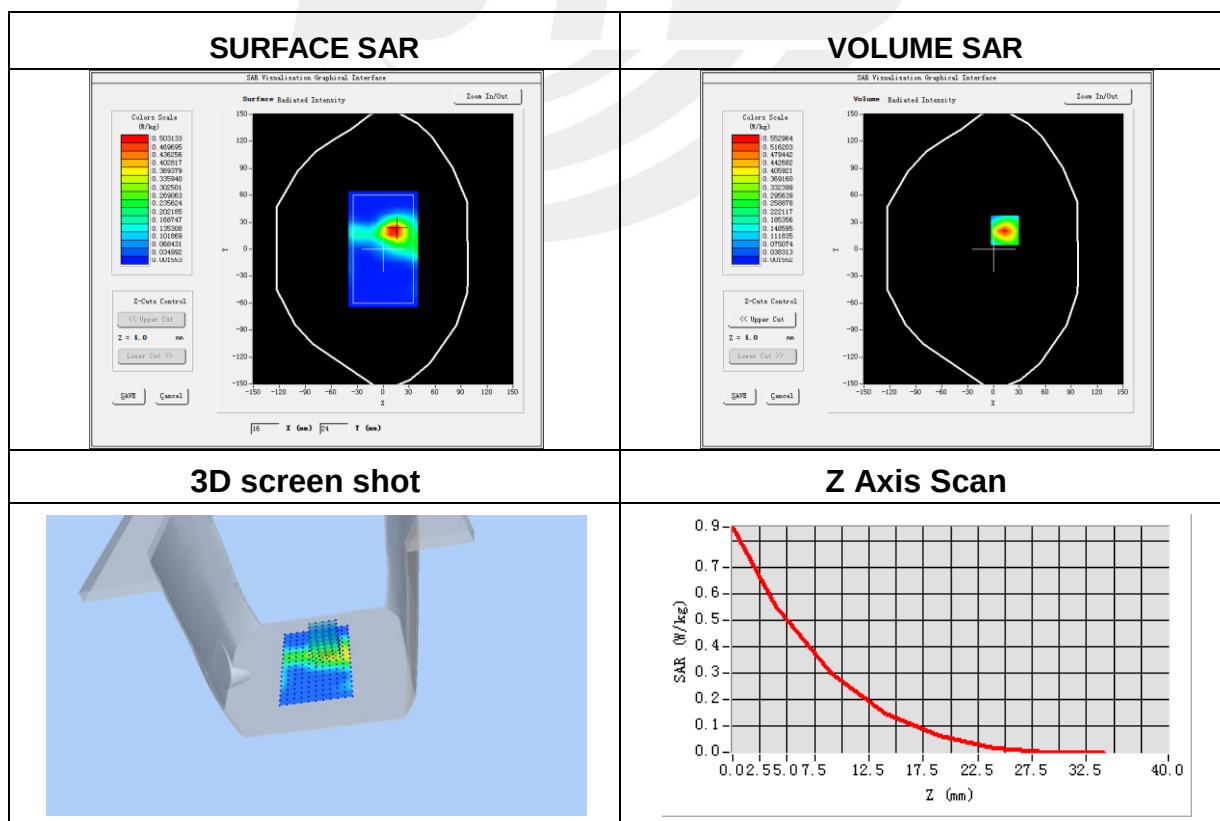
Plot 2: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-11-15
Probe	SN 45/15 EPGO281
ConvF	1.87
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	WCDMA IV
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1740
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-1.10

Maximum location: X=13.00, Y=21.00

SAR Peak: 0.85 W/kg

SAR 10g (W/Kg)	0.240871
SAR 1g (W/Kg)	0.508595



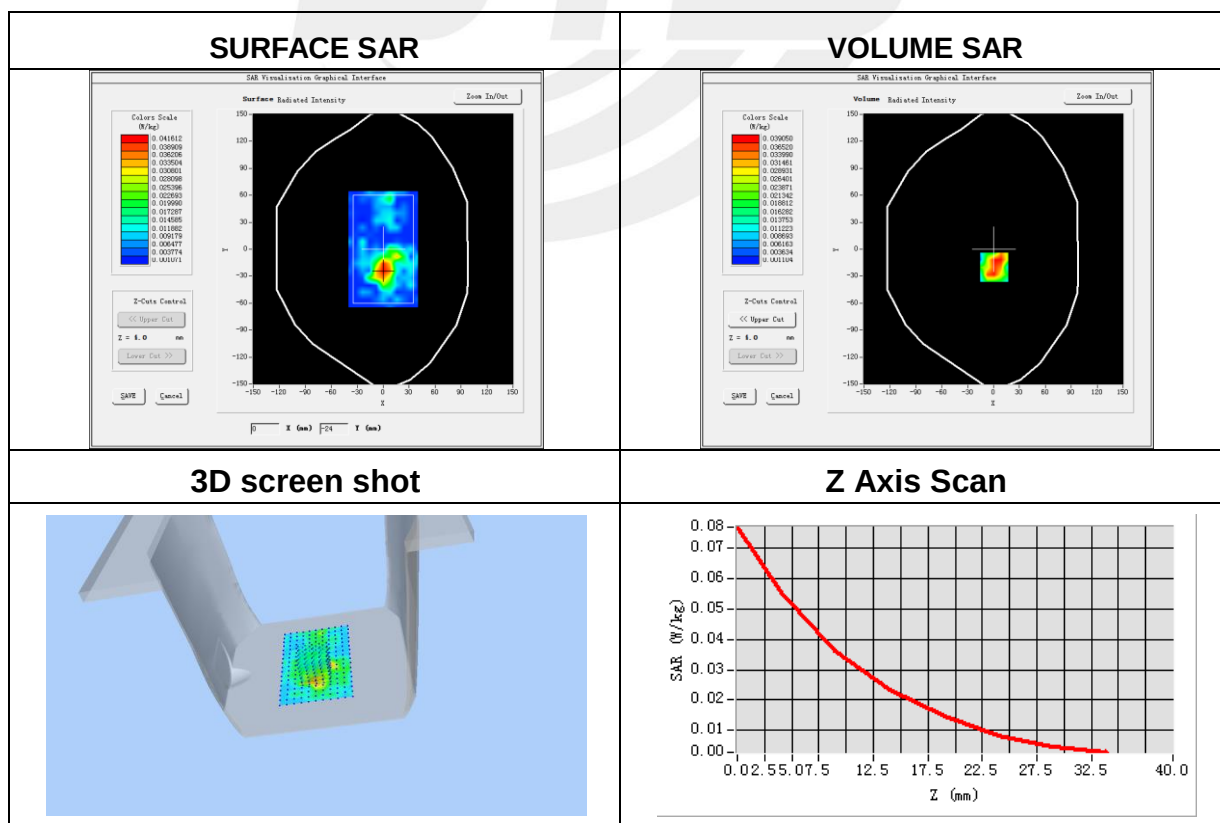
Plot 3: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-11-13
Probe	SN 45/15 EPGO281
ConvF	1.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	-1.21

Maximum location: X=1.00, Y=-20.00

SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.021496
SAR 1g (W/Kg)	0.037466



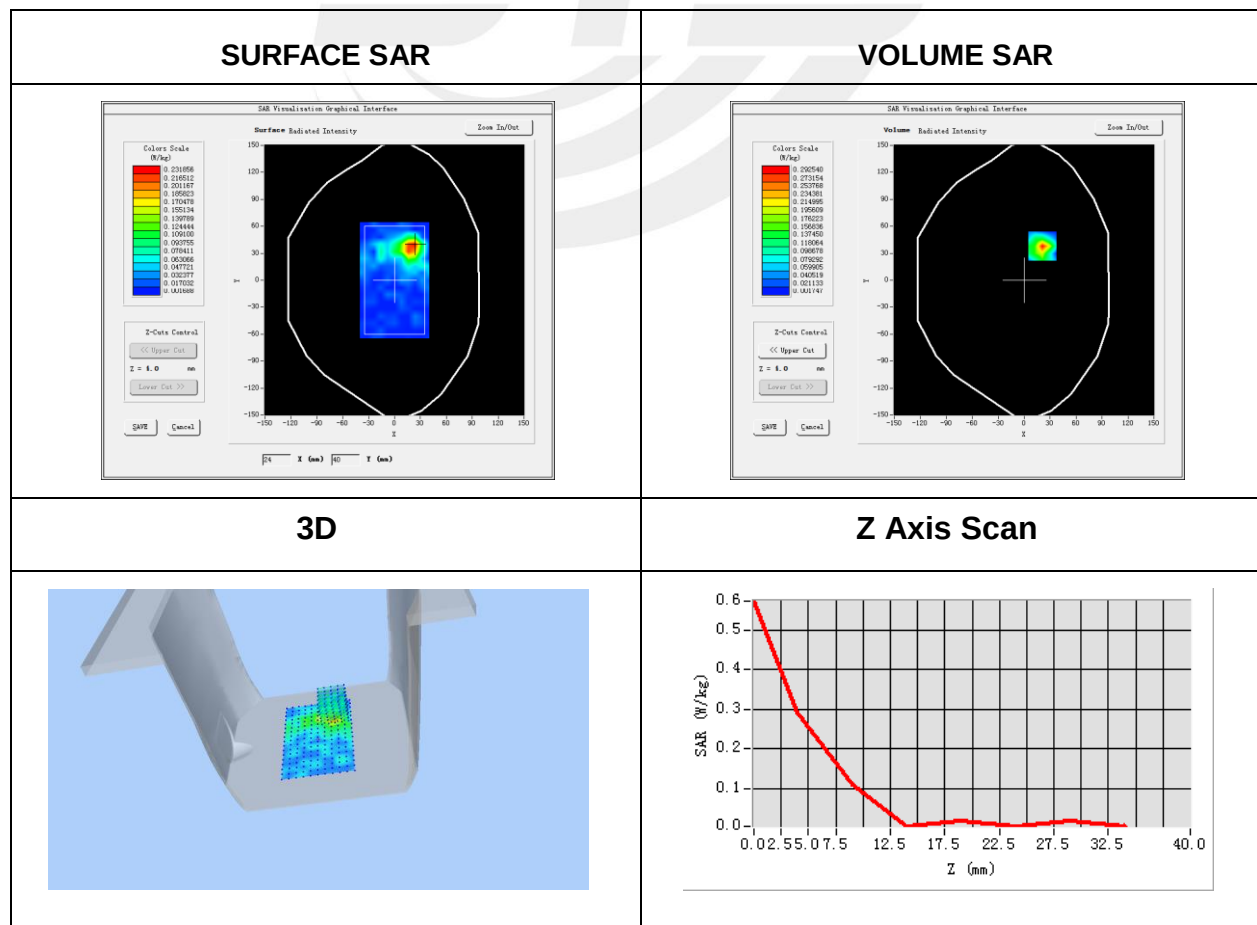

Plot 4: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-12-06
Probe	SN 45/15 EPGO281
ConvF	2.28
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11b ISM
Channels	Middle
Antenna	A
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2442
Relative permittivity (real part)	52.70
Conductivity (S/m)	1.95
Variation (%)	-1.18

Maximum location: X=21.00, Y=38.00

SAR Peak: 0.59 W/kg

SAR 10g (W/Kg)	0.095246
SAR 1g (W/Kg)	0.257189



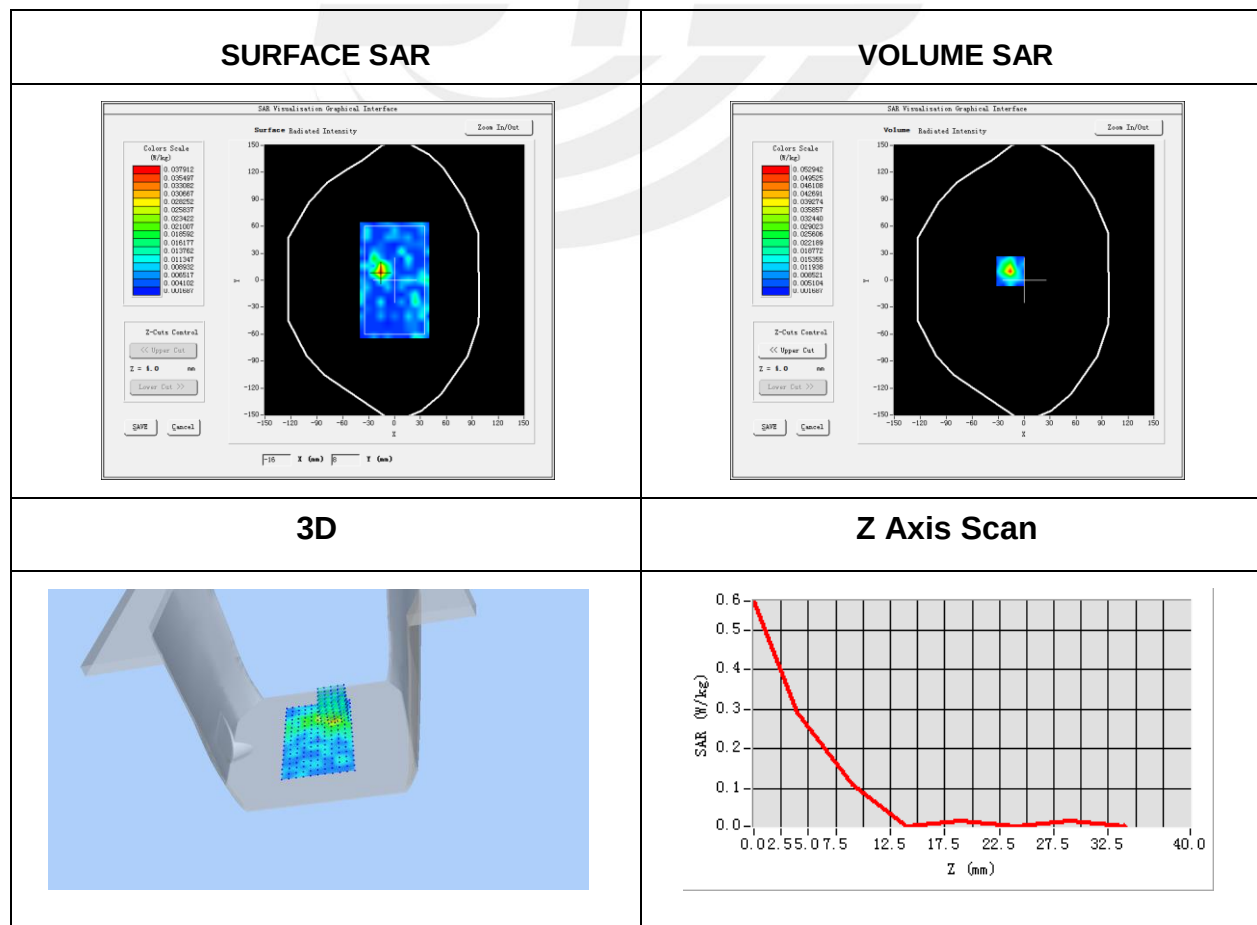

Plot 5: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-12-06
Probe	SN 45/15 EPGO281
ConvF	2.28
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11b ISM
Channels	Middle
Antenna	B
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2442
Relative permittivity (real part)	52.70
Conductivity (S/m)	1.95
Variation (%)	-2.39

Maximum location: X=-16.00, Y=10.00

SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.015323
SAR 1g (W/Kg)	0.050708



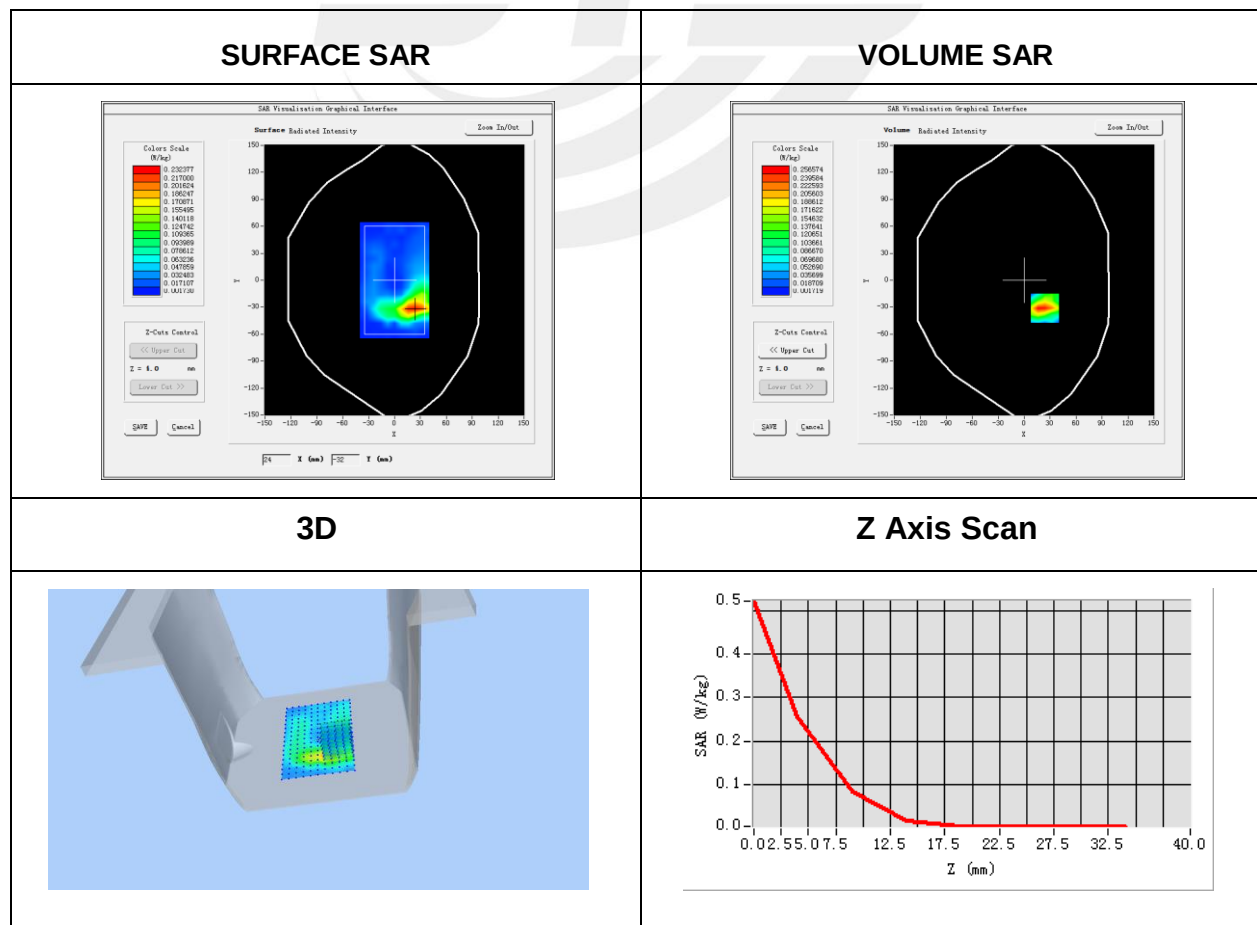
Plot 6: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-12-06
Probe	SN 45/15 EPGO281
ConvF	2.28
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11n ISM
Channels	Middle
Antenna	A
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2442
Relative permittivity (real part)	52.70
Conductivity (S/m)	1.95
Variation (%)	3.22

Maximum location: X=24.00, Y=-31.00

SAR Peak: 0.55 W/kg

SAR 10g (W/Kg)	0.093161
SAR 1g (W/Kg)	0.245543



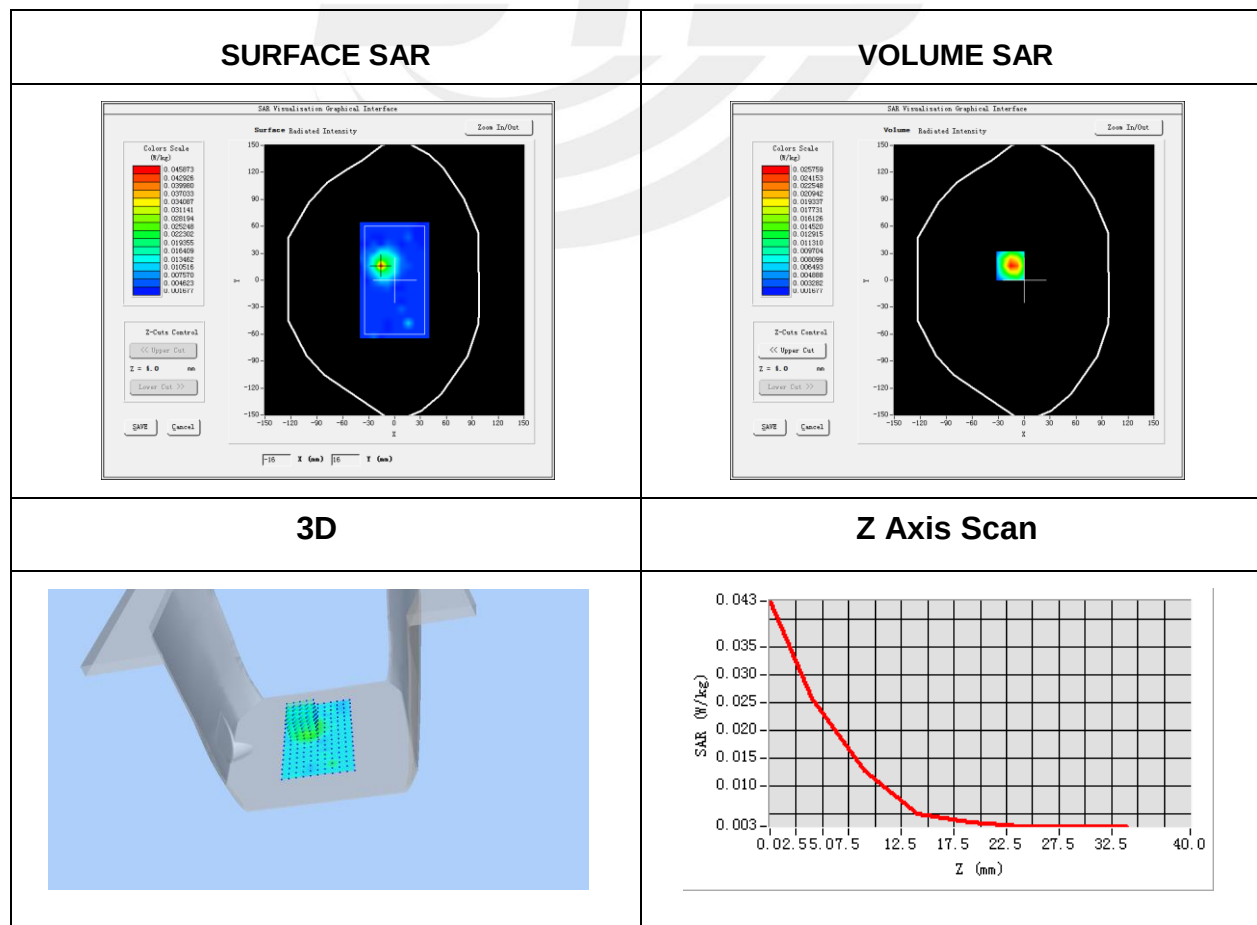

Plot 7: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-12-06
Probe	SN 45/15 EPGO281
ConvF	2.28
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11n ISM
Channels	Middle
Antenna	B
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2442
Relative permittivity (real part)	52.70
Conductivity (S/m)	1.95
Variation (%)	-3.19

Maximum location: X=-16.00, Y=16.00

SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.011024
SAR 1g (W/Kg)	0.023861



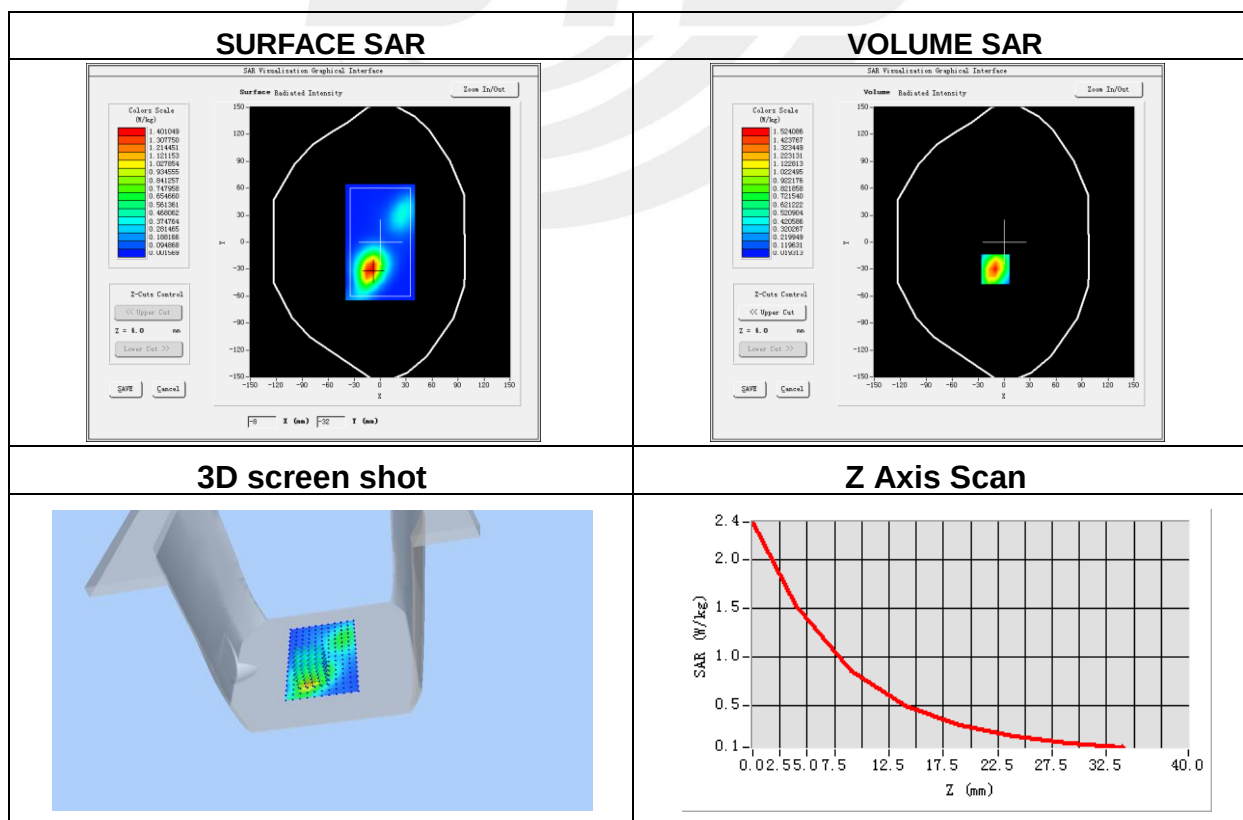

Plot 8: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-12-02
Probe	SN 45/15 EPGO281
ConvF	2.16
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Left side
Band	LTE Band 4 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1732.5
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.16

Maximum location: X=-10.00, Y=-30.00

SAR Peak: 2.38 W/kg

SAR 10g (W/Kg)	0.722062
SAR 1g (W/Kg)	1.421880



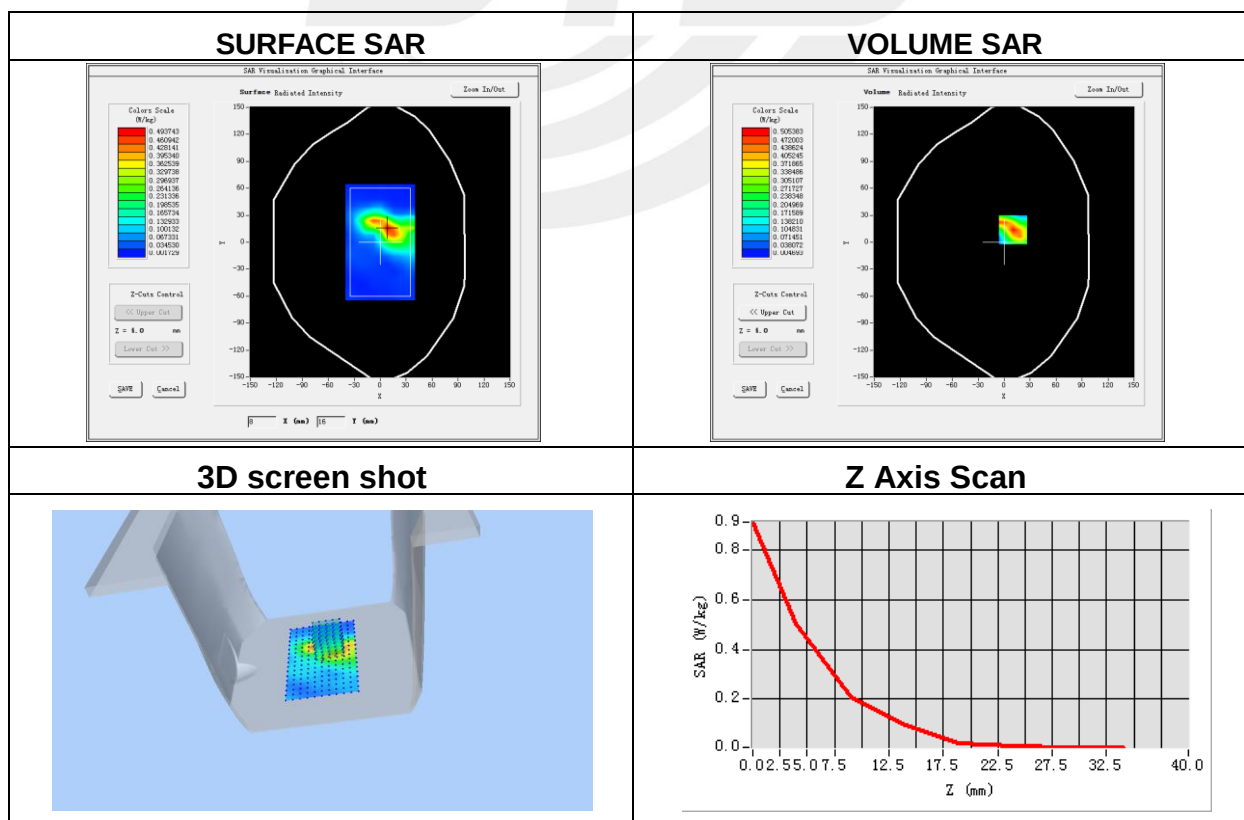
Plot 9: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-12-08
Probe	SN 45/15 EPGO281
ConvF	2.38
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 7 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2535
Relative permittivity (real part)	52.50
Conductivity (S/m)	2.16
Variation (%)	0.54

Maximum location: X=10.00, Y=14.00

SAR Peak: 0.90 W/kg

SAR 10g (W/Kg)	0.204027
SAR 1g (W/Kg)	0.466248



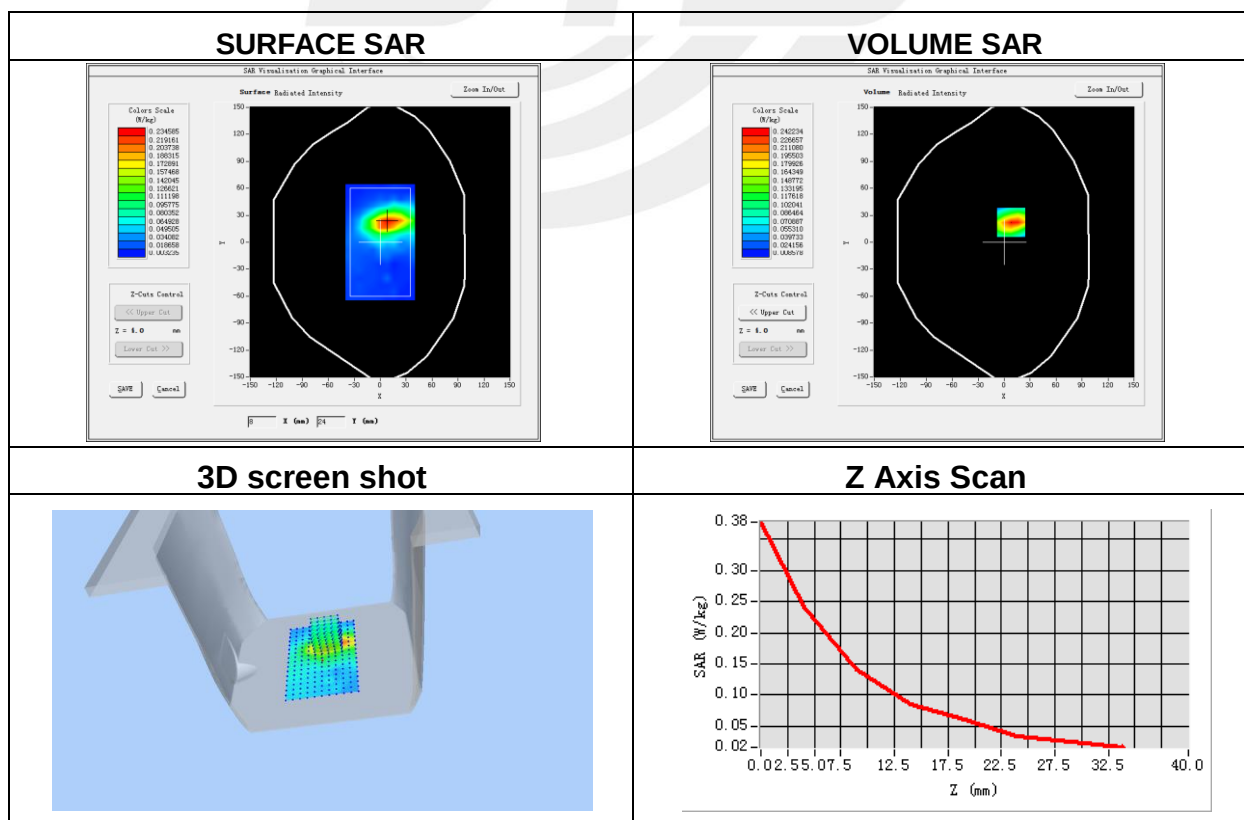
Plot 10: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-11-30
Probe	SN 45/15 EPGO281
ConvF	1.59
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 12 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	704
Relative permittivity (real part)	55.50
Conductivity (S/m)	0.96
Variation (%)	-3.18

Maximum location: X=8.00, Y=22.00

SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.122657
SAR 1g (W/Kg)	0.231386



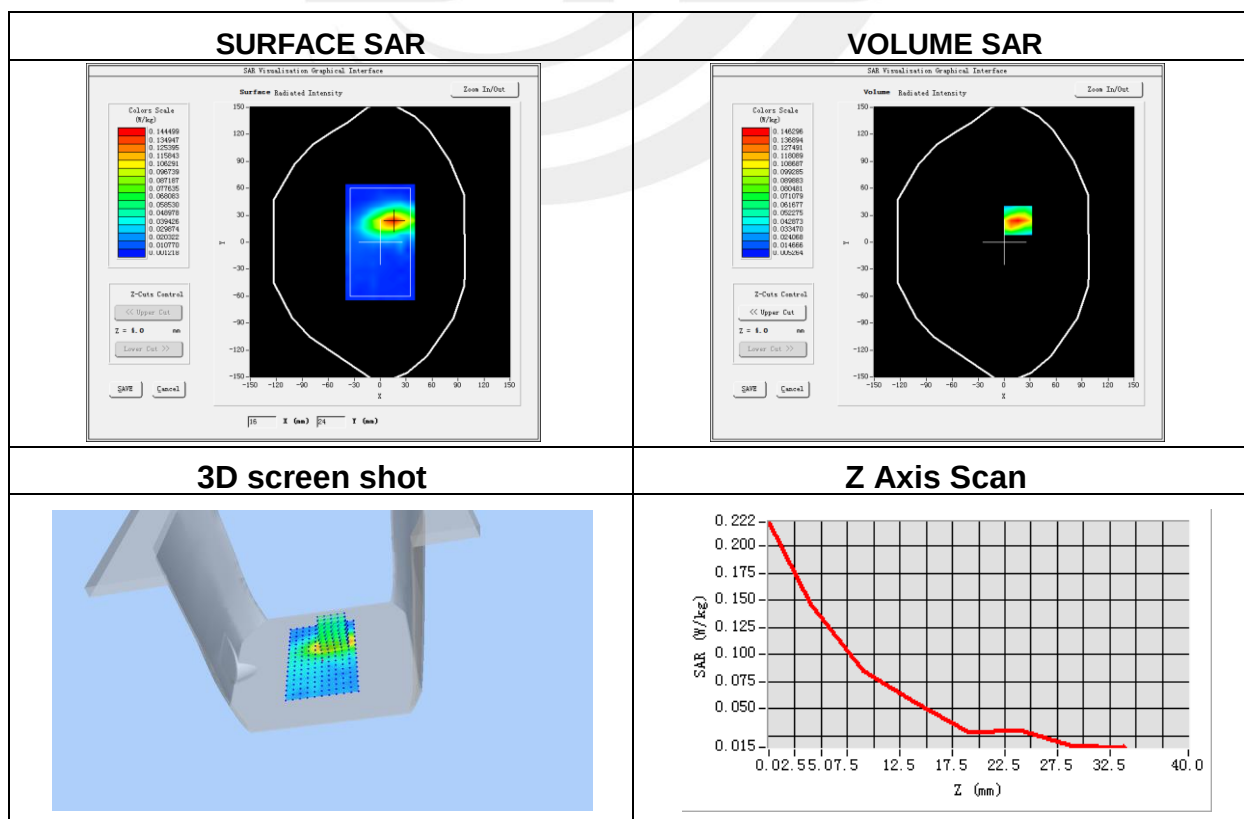
Plot 11: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-11-30
Probe	SN 45/15 EPGO281
ConvF	1.53
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 13 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	782
Relative permittivity (real part)	55.50
Conductivity (S/m)	0.96
Variation (%)	-2.35

Maximum location: X=16.00, Y=24.00

SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.071782
SAR 1g (W/Kg)	0.137402



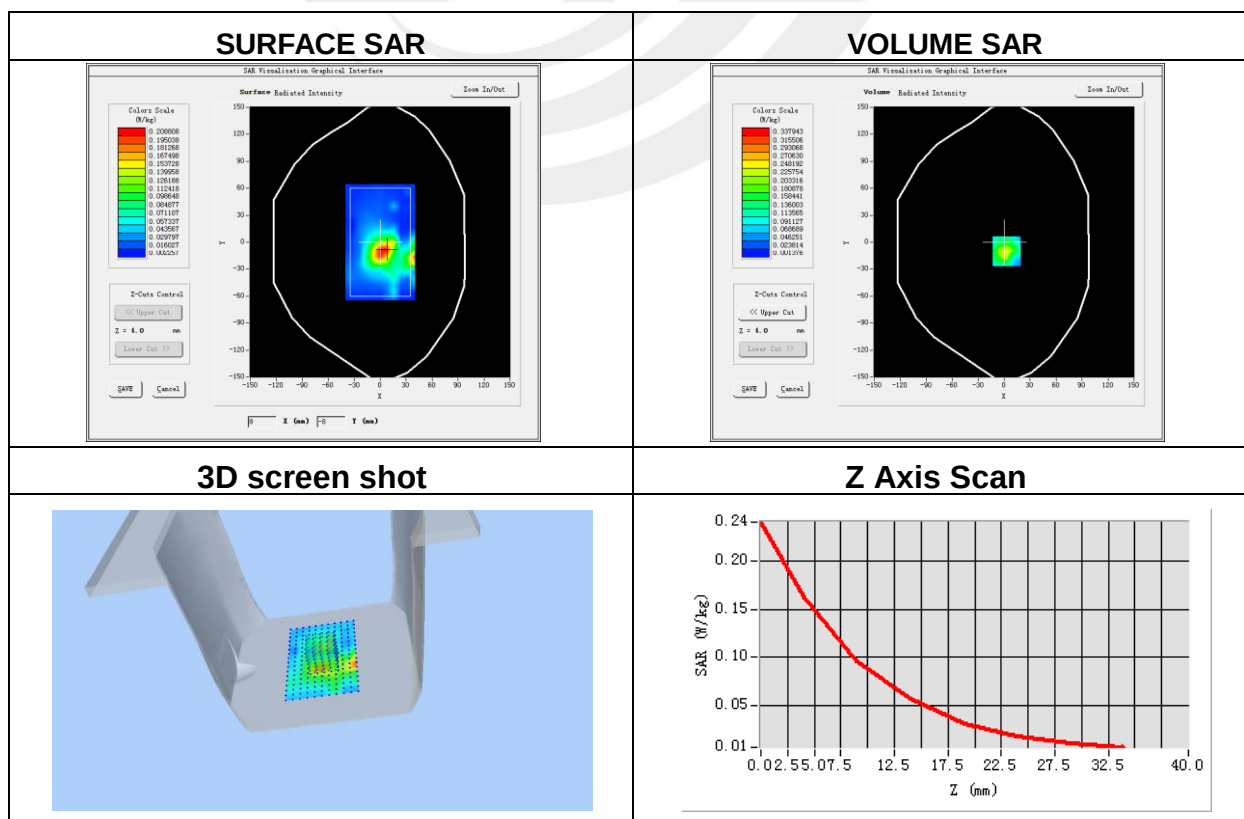
Plot 12: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-12-04
Probe	SN 45/15 EPGO281
ConvF	2.16
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 25 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1905
Relative permittivity (real part)	53.3
Conductivity (S/m)	1.52
Variation (%)	-0.81

Maximum location: X=3.00, Y=-10.00

SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.100706
SAR 1g (W/Kg)	0.207432



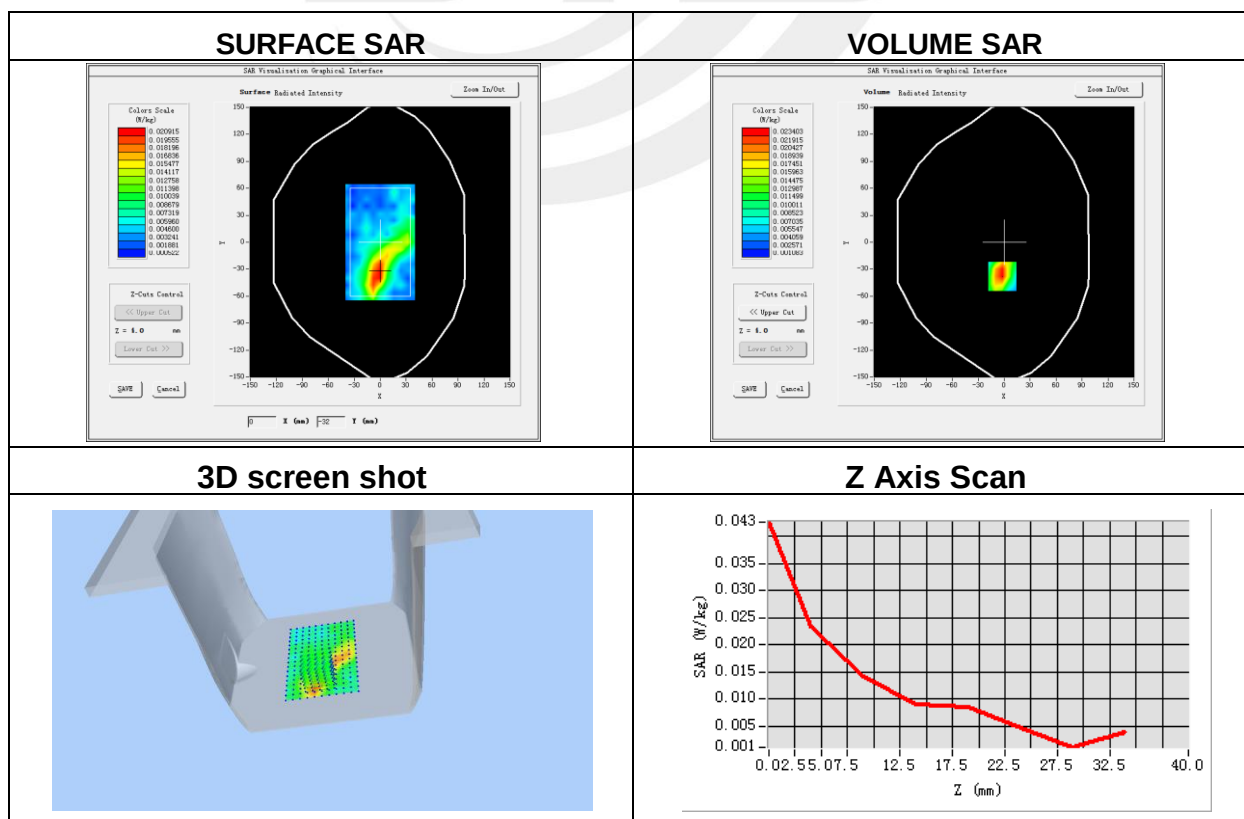
Plot 13: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-12-01
Probe	SN 45/15 EPGO281
ConvF	1.78
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 26 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	876.5
Relative permittivity (real part)	55.2
Conductivity (S/m)	0.96
Variation (%)	-0.85

Maximum location: X=-2.00, Y=-38.00

SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.013281
SAR 1g (W/Kg)	0.024056



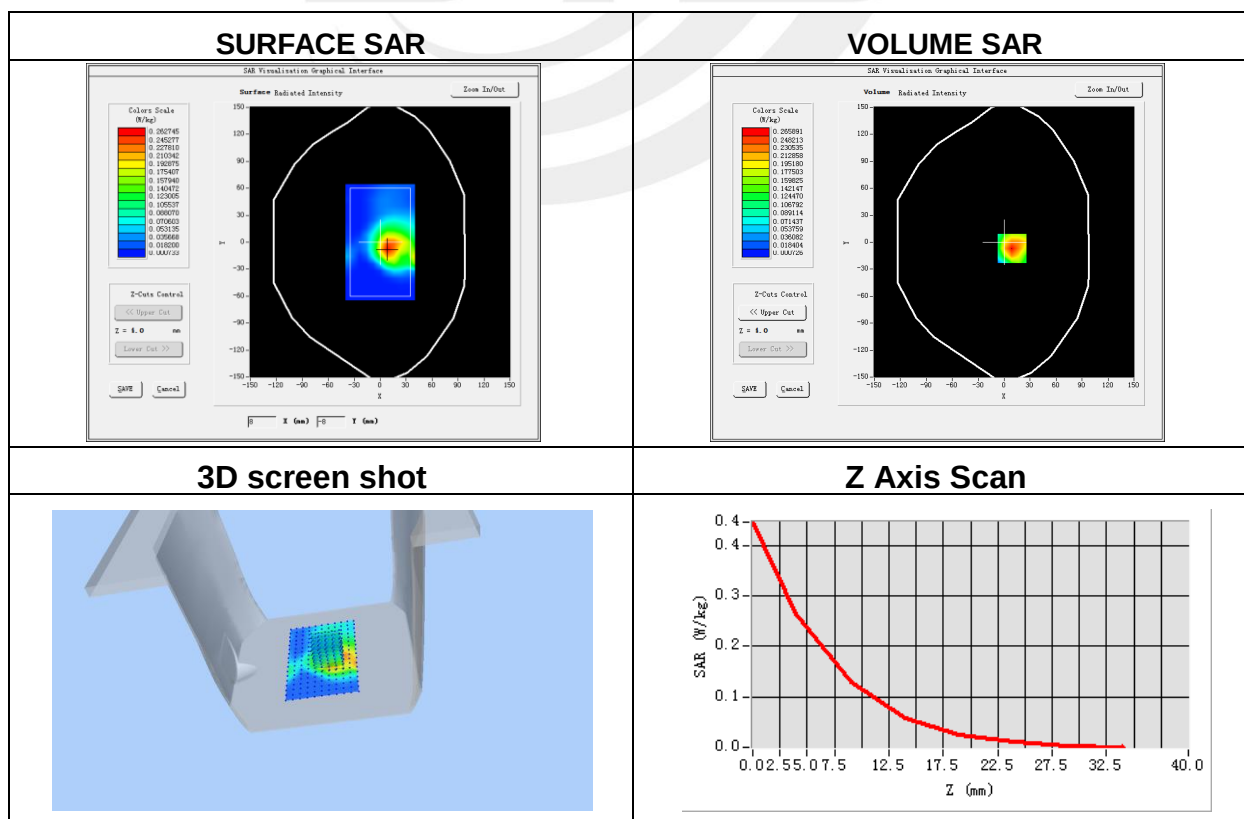
Plot 14: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-12-06
Probe	SN 45/15 EPGO281
ConvF	2.09
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 30 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2310
Relative permittivity (real part)	52.7
Conductivity (S/m)	1.95
Variation (%)	1.69

Maximum location: X=9.00, Y=-7.00

SAR Peak: 0.45 W/kg

SAR 10g (W/Kg)	0.124341
SAR 1g (W/Kg)	0.250978



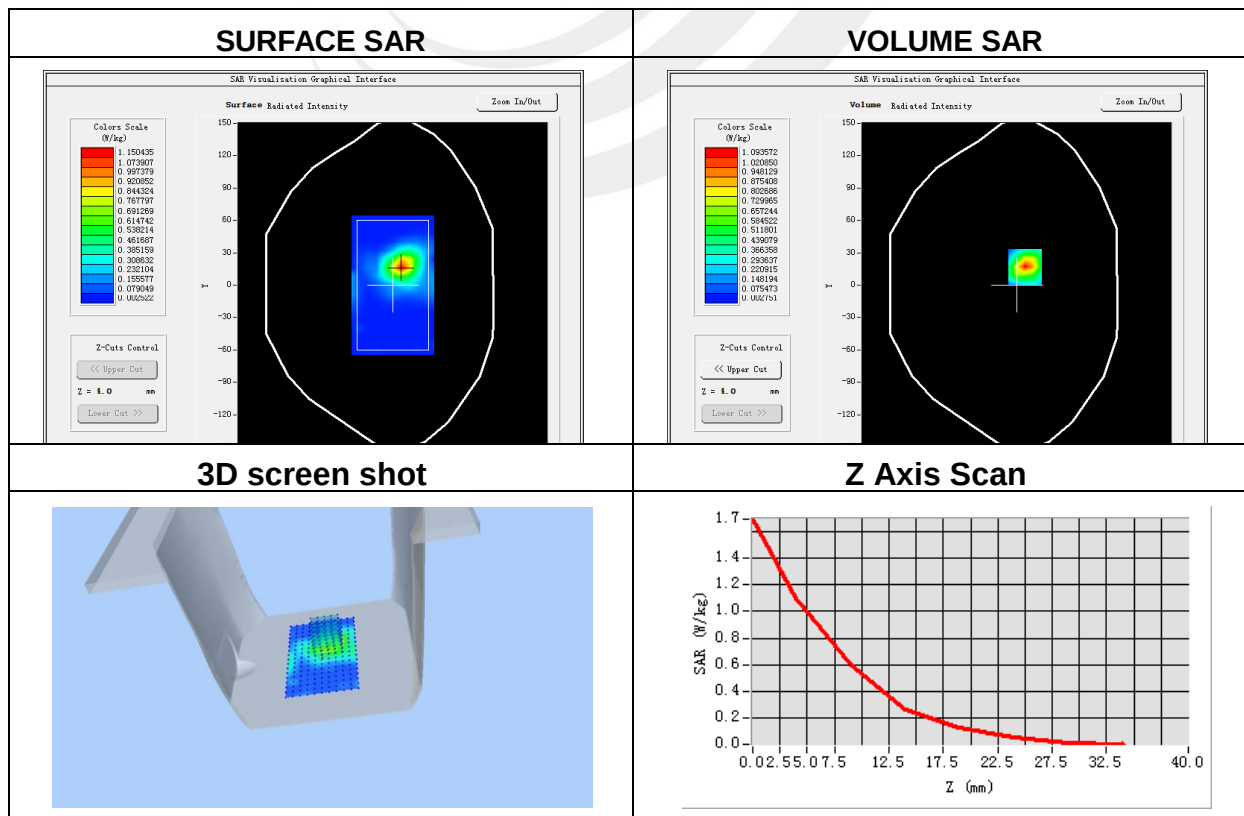
Plot 15: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-12-06
Probe	SN 45/15 EPGO281
ConvF	2.38
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 41 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.6)
Frequency (MHz)	2310
Relative permittivity (real part)	52.5
Conductivity (S/m)	2.16
Variation (%)	-0.03

Maximum location: X=8.00, Y=17.00

SAR Peak: 1.72 W/kg

SAR 10g (W/Kg)	0.444540
SAR 1g (W/Kg)	0.975461



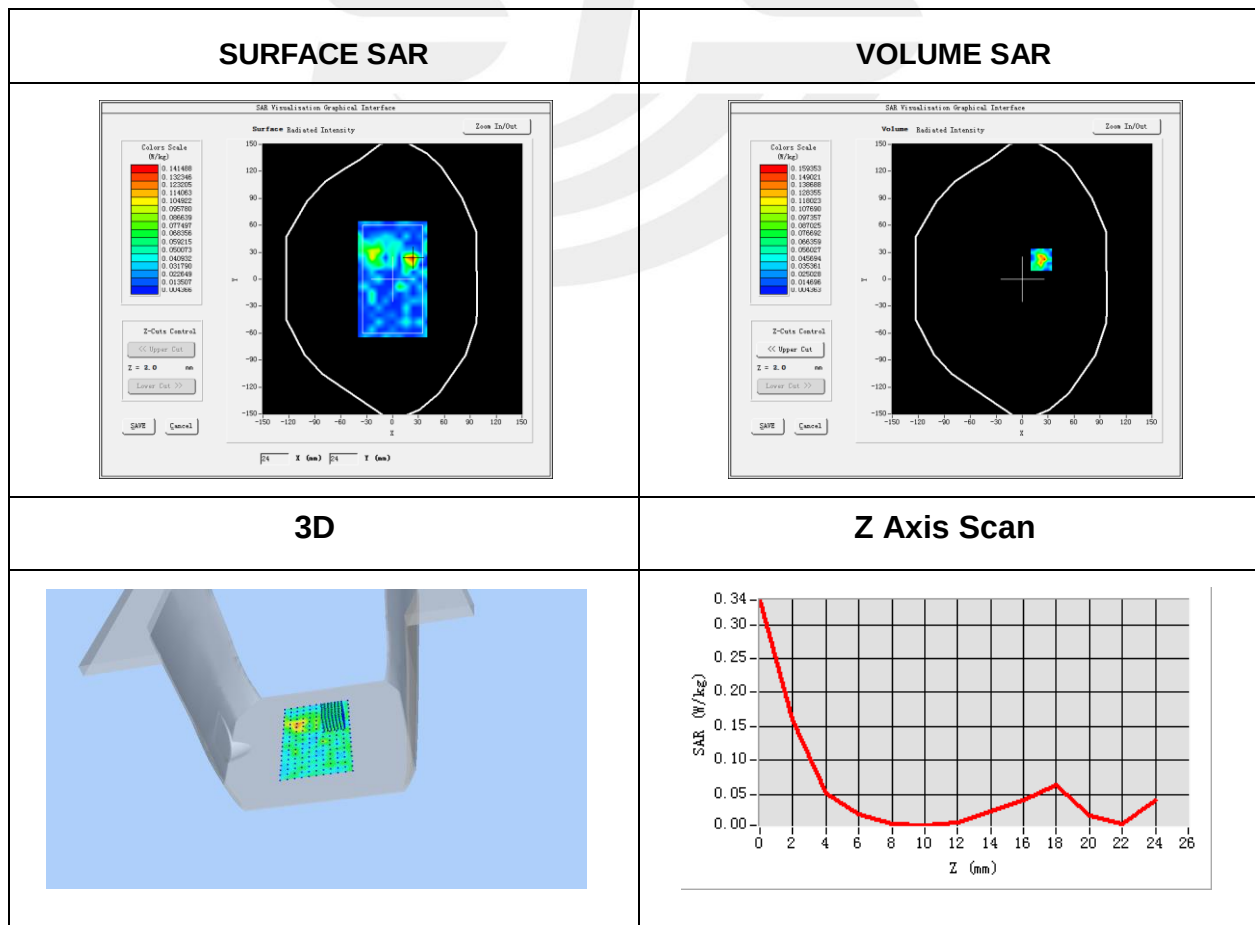
Plot 16: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-12-09
Probe	SN 45/15 EPGO281
ConvF	2.52
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11a ISM
Antenna	A
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5240
Relative permittivity (real part)	49.0
Conductivity (S/m)	5.30
Variation (%)	-2.32

Maximum location: X=22.00, Y=22.00

SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.032968
SAR 1g (W/Kg)	0.071181



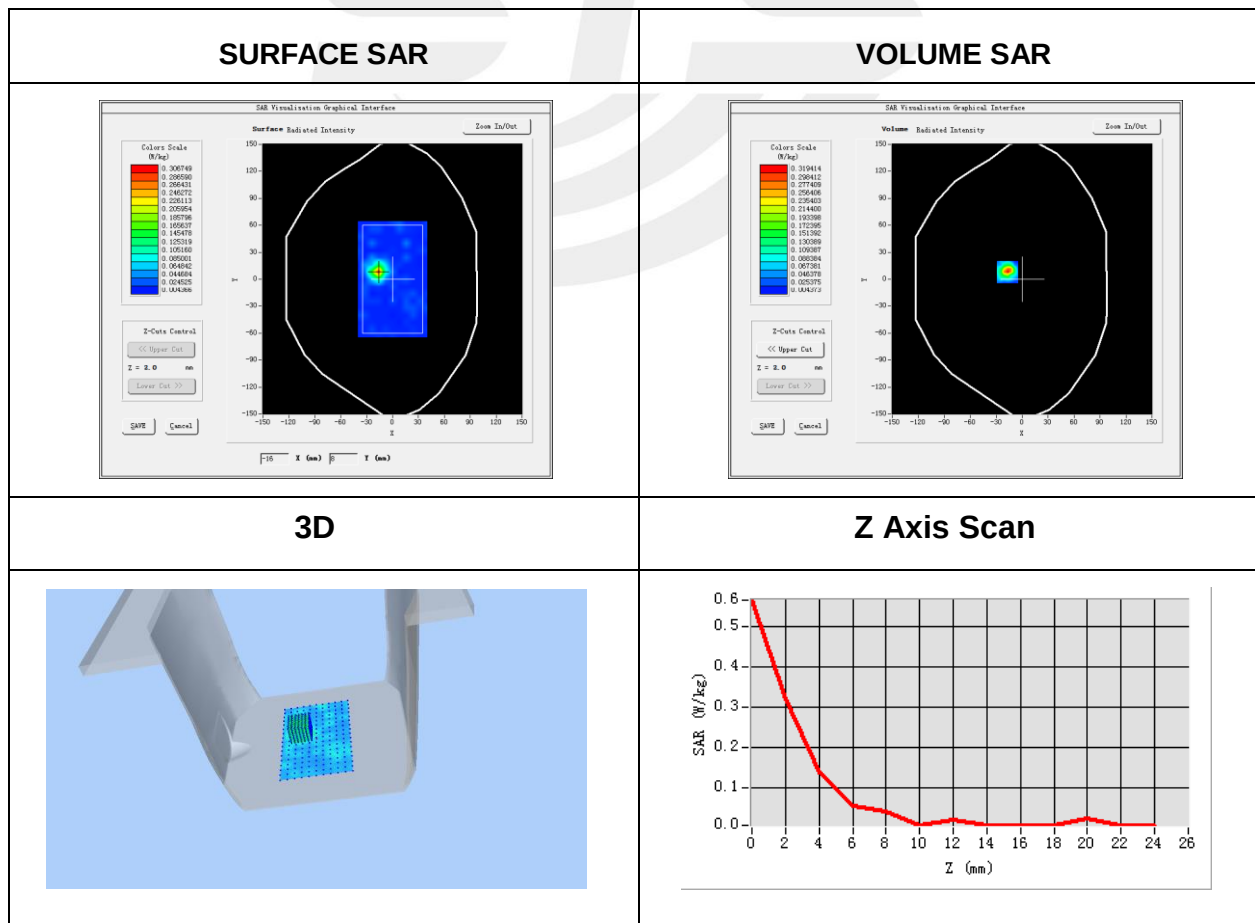
Plot 17: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-12-09
Probe	SN 45/15 EPGO281
ConvF	2.52
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11a ISM
Antenna	B
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5240
Relative permittivity (real part)	49.0
Conductivity (S/m)	5.30
Variation (%)	-2.32

Maximum location: X=-17.00, Y=8.00

SAR Peak: 0.63 W/kg

SAR 10g (W/Kg)	0.046651
SAR 1g (W/Kg)	0.161648



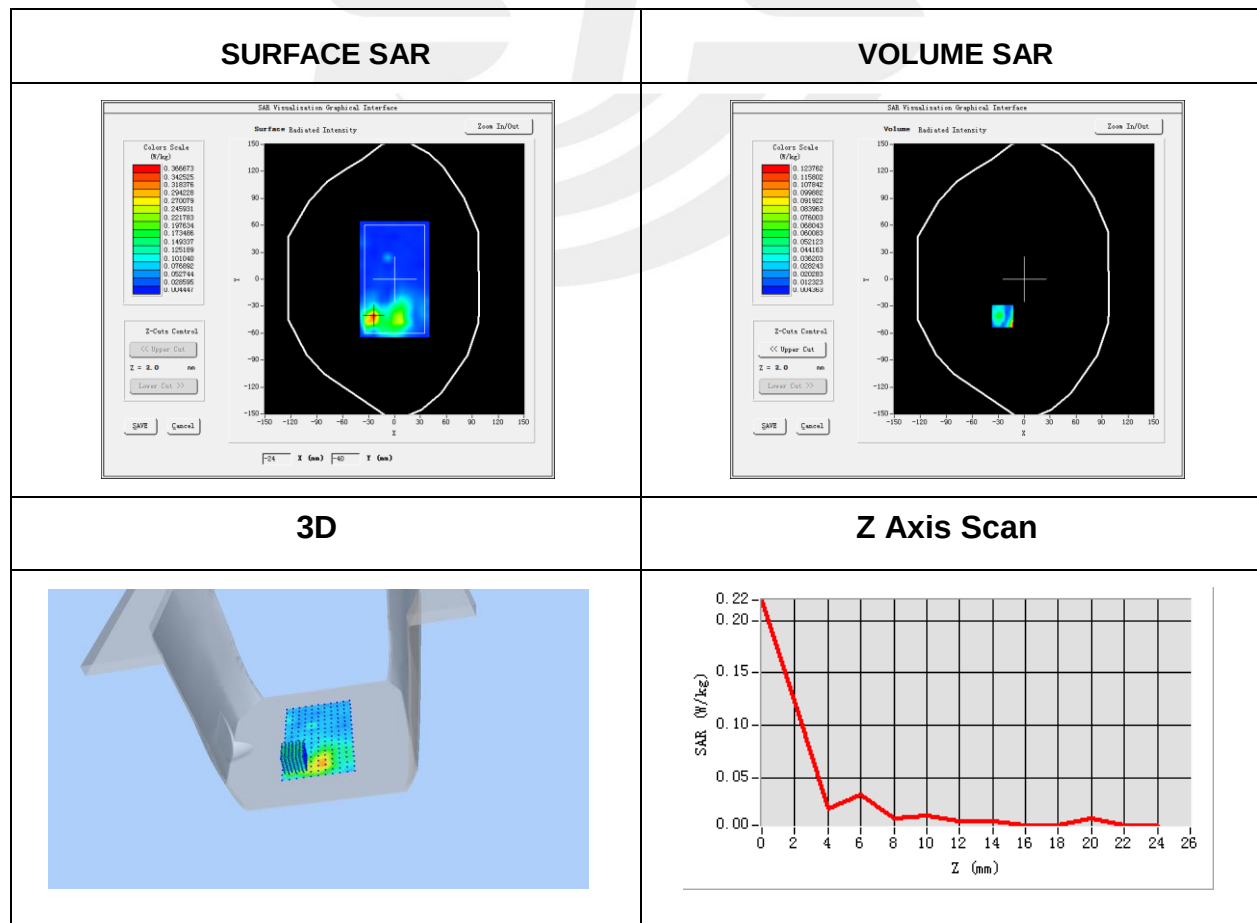

Plot 18: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-12-09
Probe	SN 45/15 EPGO281
ConvF	2.52
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11n ISM
Antenna	A
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5240
Relative permittivity (real part)	49.0
Conductivity (S/m)	5.30
Variation (%)	-2.32

Maximum location: X=-25.00, Y=-41.00

SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.016543
SAR 1g (W/Kg)	0.033726



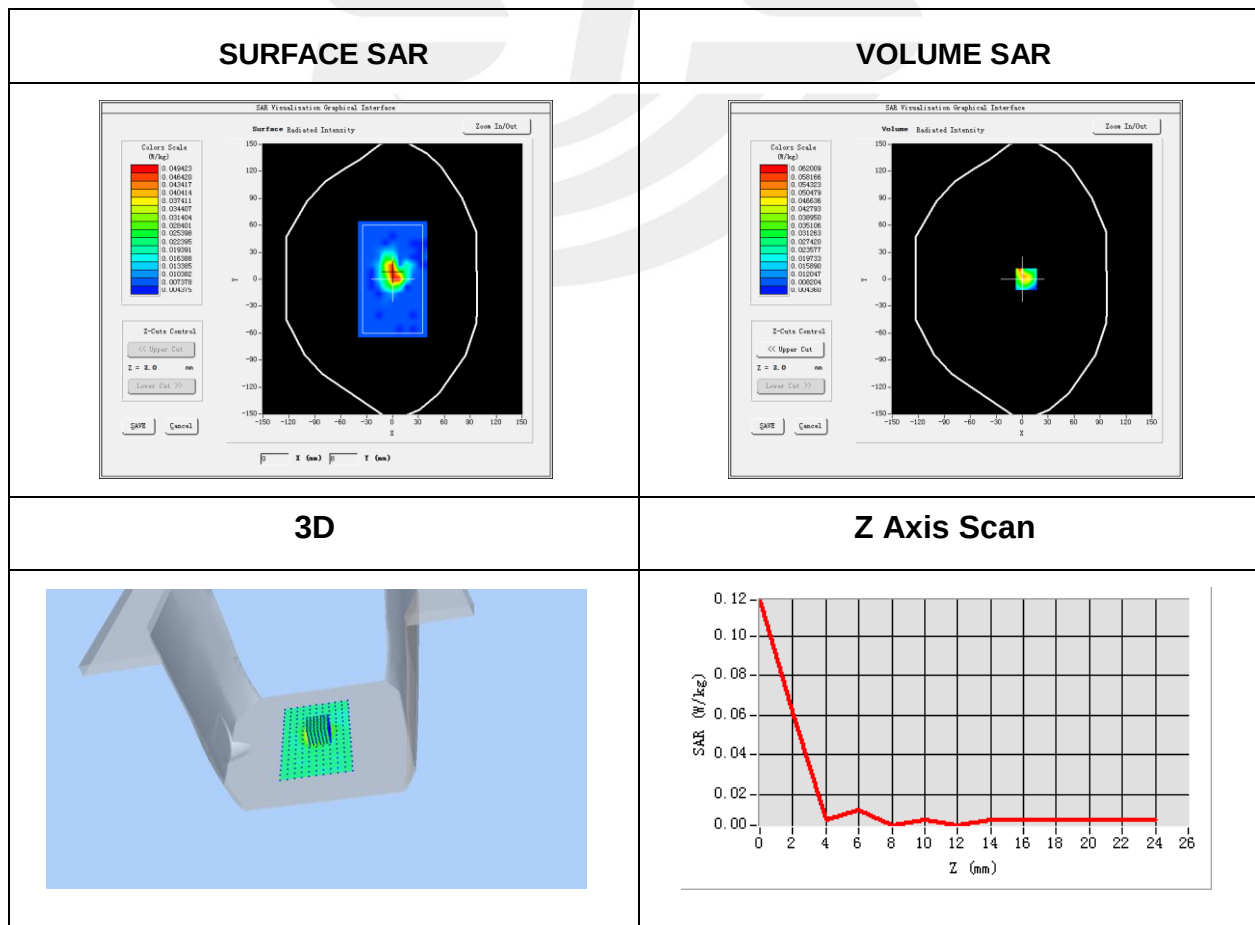
Plot 19: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-12-09
Probe	SN 45/15 EPGO281
ConvF	2.52
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11n ISM
Antenna	B
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5240
Relative permittivity (real part)	49.0
Conductivity (S/m)	5.30
Variation (%)	-2.32

Maximum location: X=5.00, Y=0.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.015537
SAR 1g (W/Kg)	0.031132



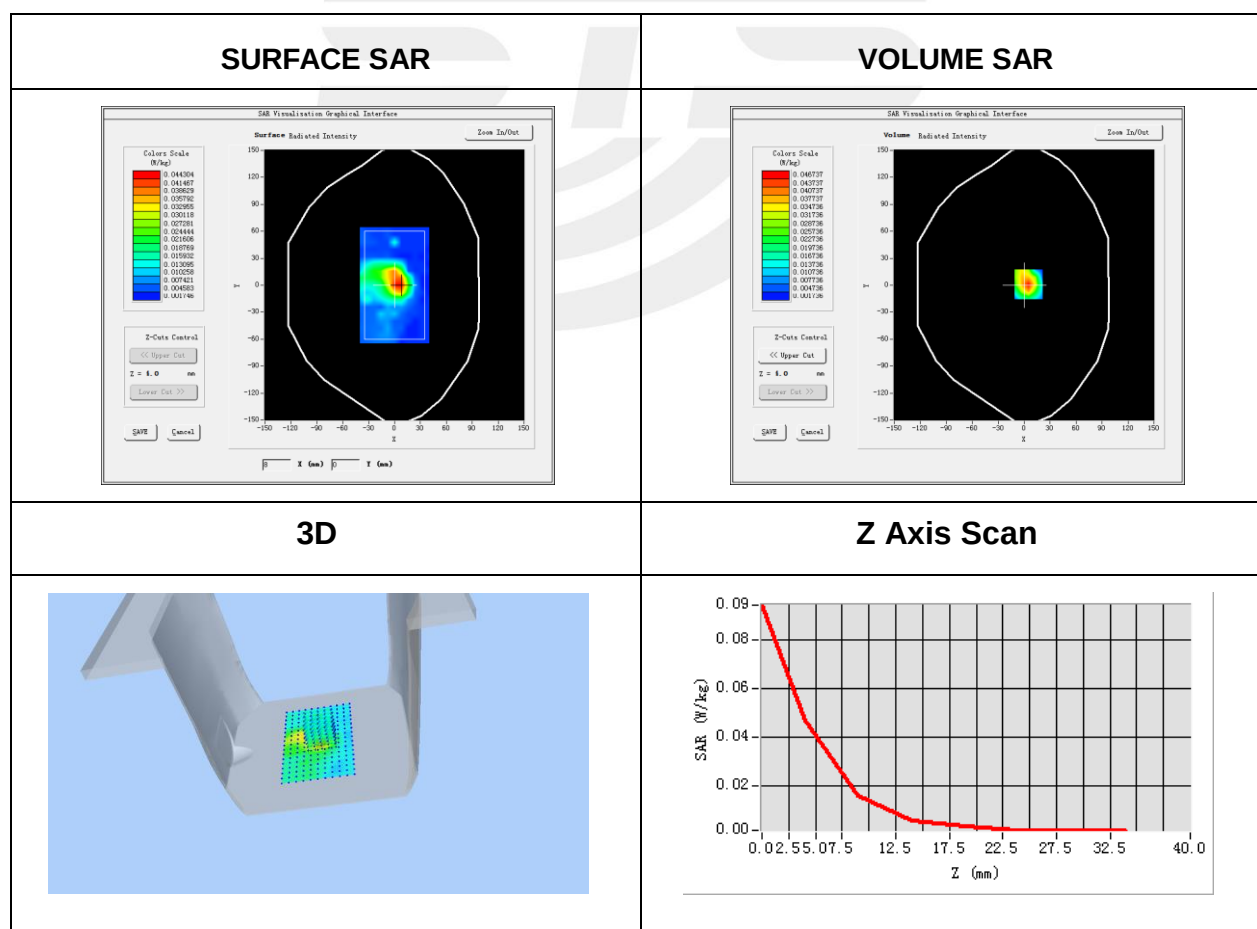
Plot 20: DUT: Rugged Tablet PC; EUT Model: M101P

Test Date	2018-12-06
Probe	SN 45/15 EPGO281
ConvF	2.28
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	Bluetooth
Signal	GSFK
Frequency (MHz)	2480
Relative permittivity (real part)	52.7
Conductivity (S/m)	1.95
Variation (%)	-2.32

Maximum location: X=5.00, Y=1.00

SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.018909
SAR 1g (W/Kg)	0.044709





Appendix C. Probe Calibration And Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※END OF THE REPORT※※※※

