

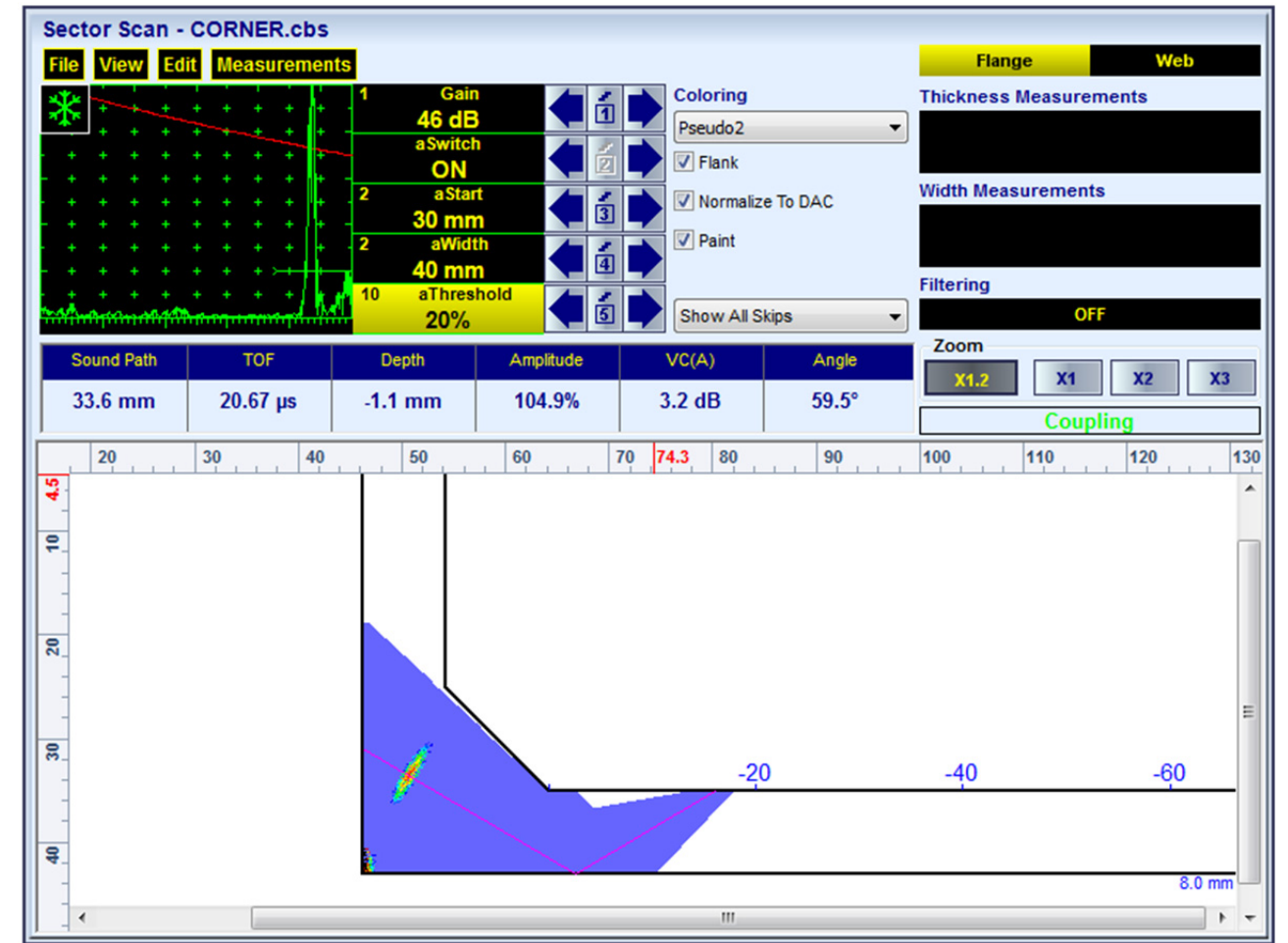


Item	Order Code (Part #)
Inspection SW Application for ISONIC 3510T, ISONIC 3510 - Phased Array Modality: <b>Expert CORNER - Inspection of Corner, Nozzle, L-Shape welds with PA Probe - planar cross section of the base surface</b>	SWA 3510016
Inspection SW Application for ISONIC 2010 / ISONIC 2010 EL - Phased Array Modality: <b>Expert CORNER - Inspection of Corner, Nozzle, L-Shape welds with PA Probe - planar cross section of the base surface</b>	SWA 910816
Inspection SW Application for ISONIC 2009 UPA-Scope - Phased Array Modality: <b>Expert CORNER - Inspection of Corner, Nozzle, L-Shape welds with PA Probe - planar cross section of the base surface</b> ⇒ True-To-Geometry Weld Overlay Volume Corrected Imaging - Cross Sectional and Top (C-Scan)- / Side- / End- View and 3D ⇒ Sector-Scan Cross Sectional Coverage ⇒ Intuitive Image Guided PA Pulser Receiver with Beam Forming View ⇒ DAC / TCG Normalization ⇒ Built-In Weld Geometry Editor and Ray Tracer - Scanning Pattern Design ⇒ Independent on TCG Angle Gain Compensation / Gain Per Focal Law Correction ⇒ Automatic Coupling Monitor ⇒ Automatic Scanning Integrity Monitor ⇒ Detection of the defects in the parent material simultaneously with weld inspection ⇒ Encoded and Time based C-Scan ⇒ 100% Raw Data Capturing ⇒ FMC/TFM Protocol for the data acquisition and imaging ⇒ Automatic Defects Alarming Upon C-Scan Acquisition Completed ⇒ Automatic Creation of Editable Defects List ⇒ Automatic Creating of Scanning Integrity Report Upon C-Scan Acquisition Completed ⇒ Comprehensive Postprocessing Toolkit Including: → Recovery and Evaluation of Captured A-Scans from the Recorded Cross Sectional Views (Sector Scan) and C-Scans → Recovery of Cross Sectional Views from the Recorded C-Scan data → Converting Recorded C-Scans or their Segments into 3D Images → Off-Line Gain Manipulation → Off-Line DAC to TCG / TCG to DAC toggling for all types of stored files (A-Scans, cross-sectional views, C-Scans, etc) → Off-Line DAC Normalization of the Recorded Images / DAC Evaluation → Off-Line editing of Angle Gain Compensation / Gain per Shot Correction applied to the stored the Cross-sectional Views / C-Scan data → Numerous Filtering / Reject Options ( by Geometry / Position / By Amplitude / dB-to-DAC / etc ) → Defects Sizing → Automatic Creation of Defect List and Storing it Into a Separate File → Automatic Creating of Scanning Integrity Report → Automatic creating of inspection reports - hard copy / PDF File	SWA 909816



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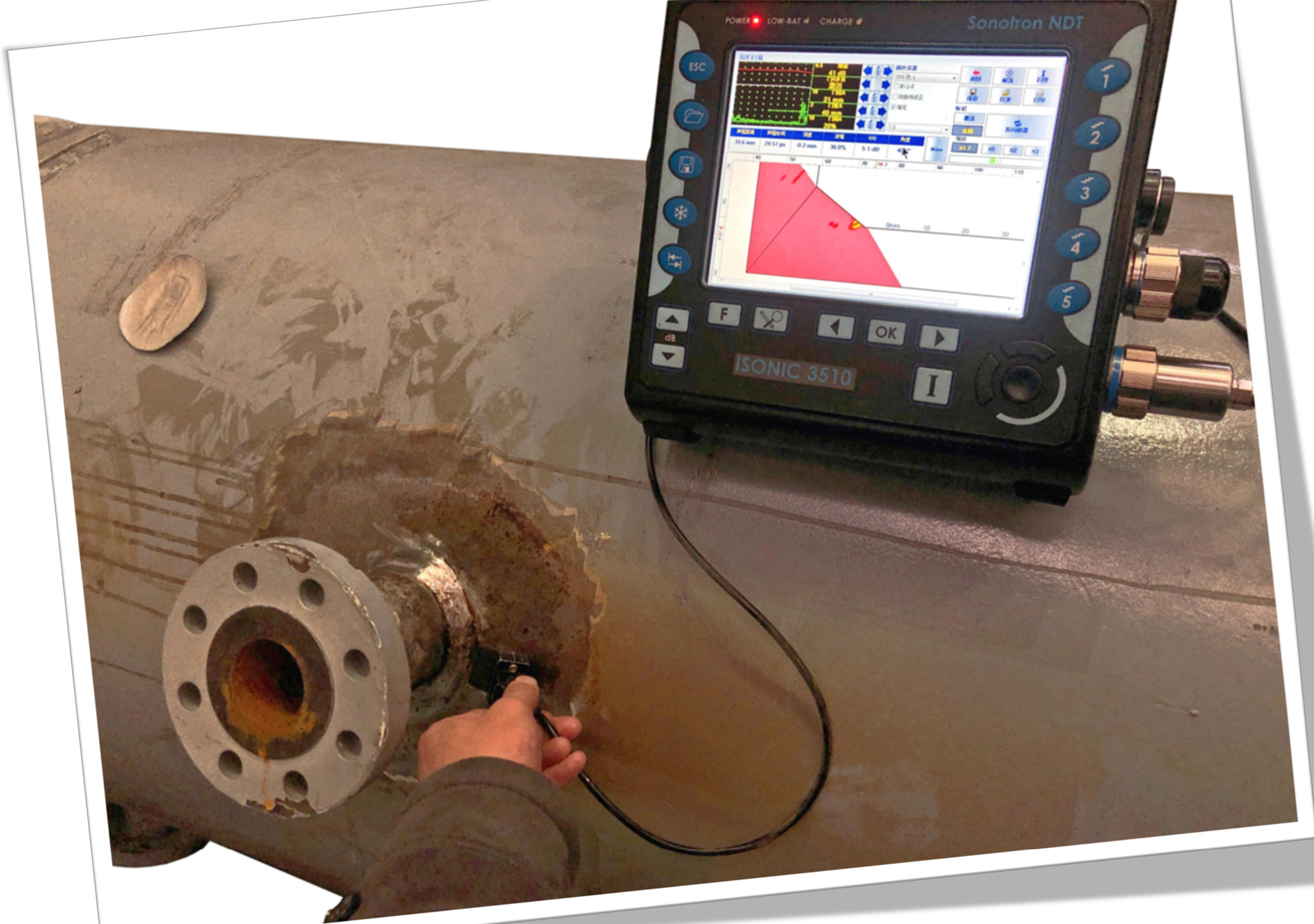










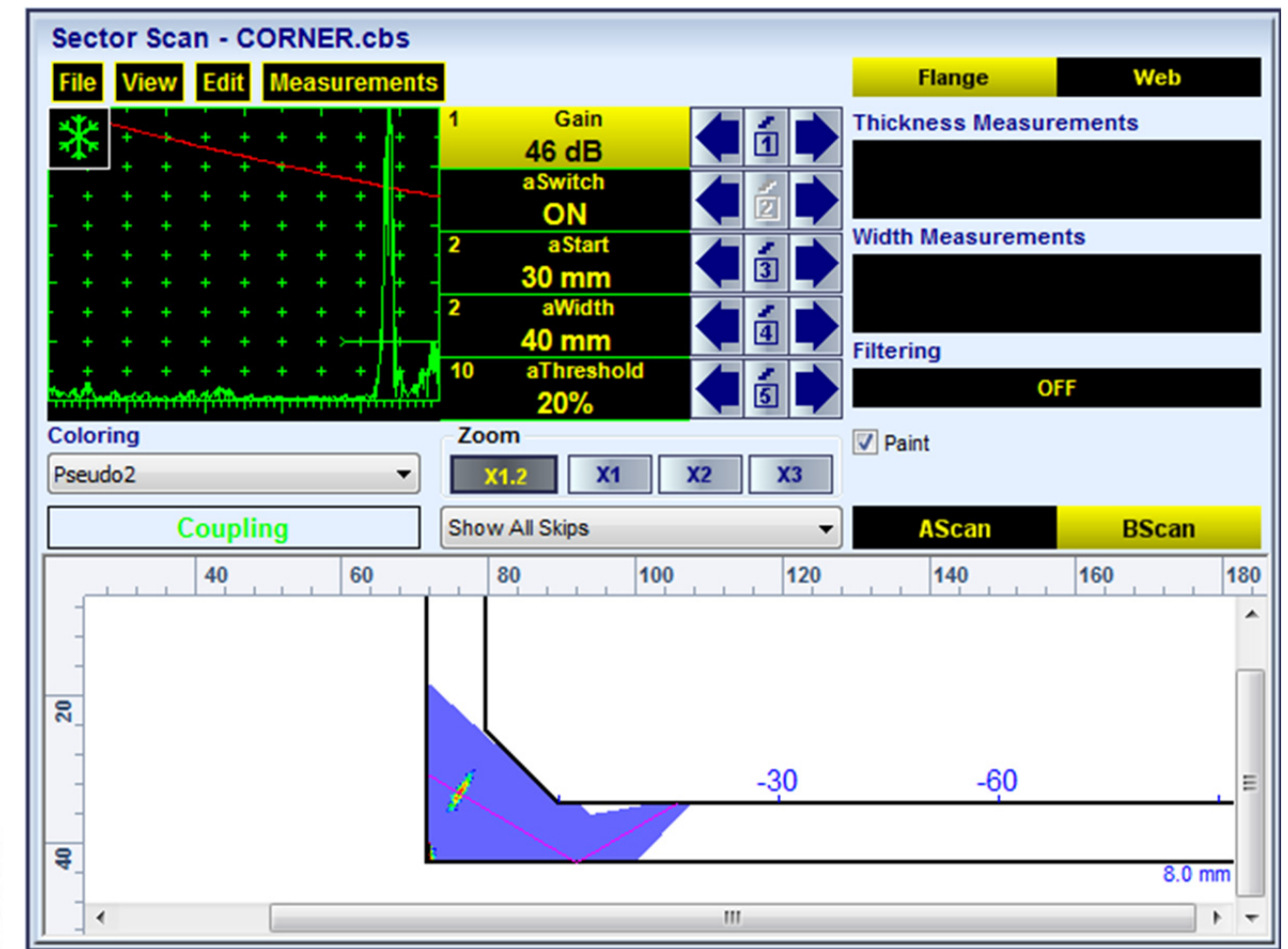
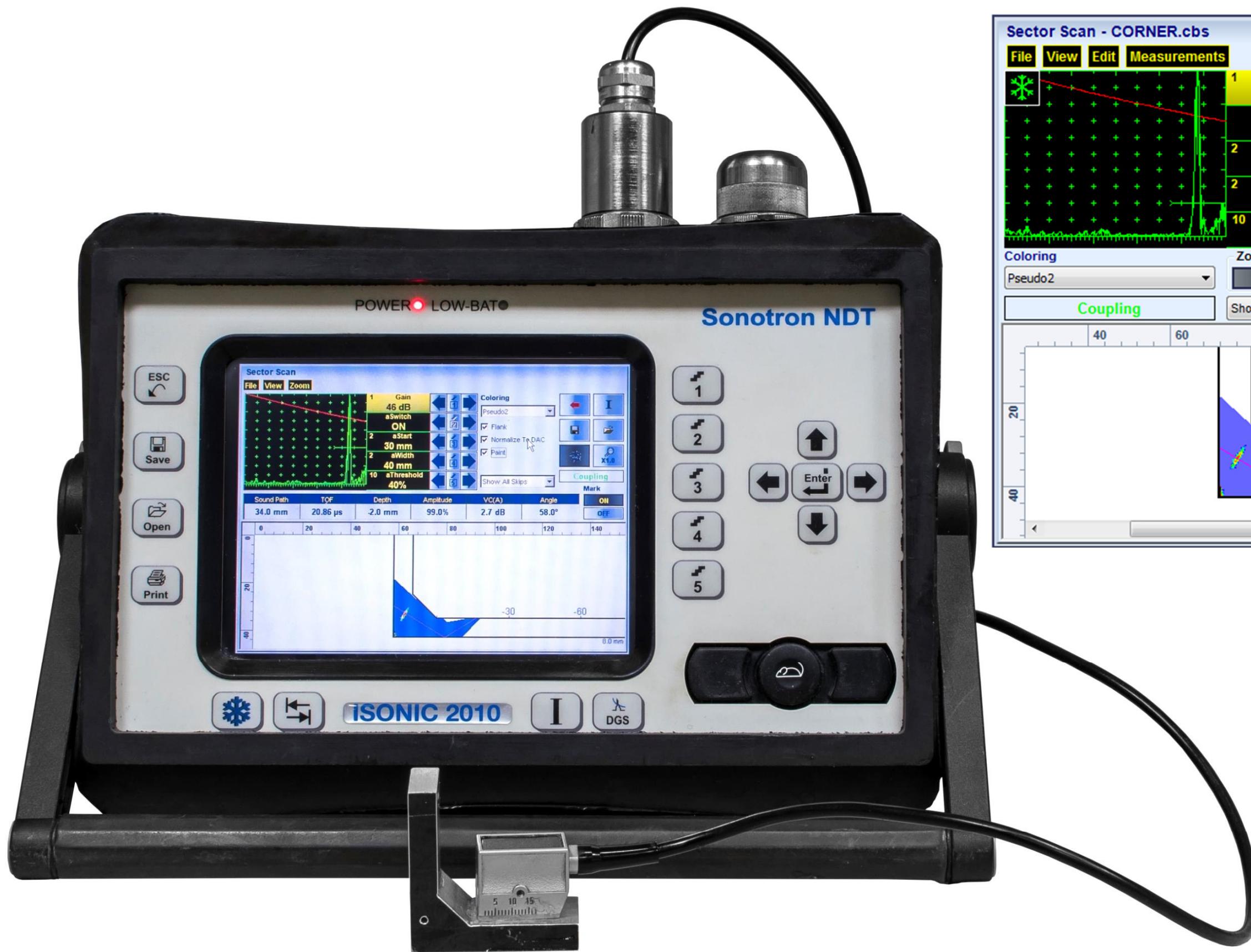






Shear wave inspection of the corner weld (calibration / performance demonstration block)





*Shear wave inspection of the corner weld (calibration / performance demonstration block)*





*Structural straight corner weld between thin wall rectangle cross-section profiles*

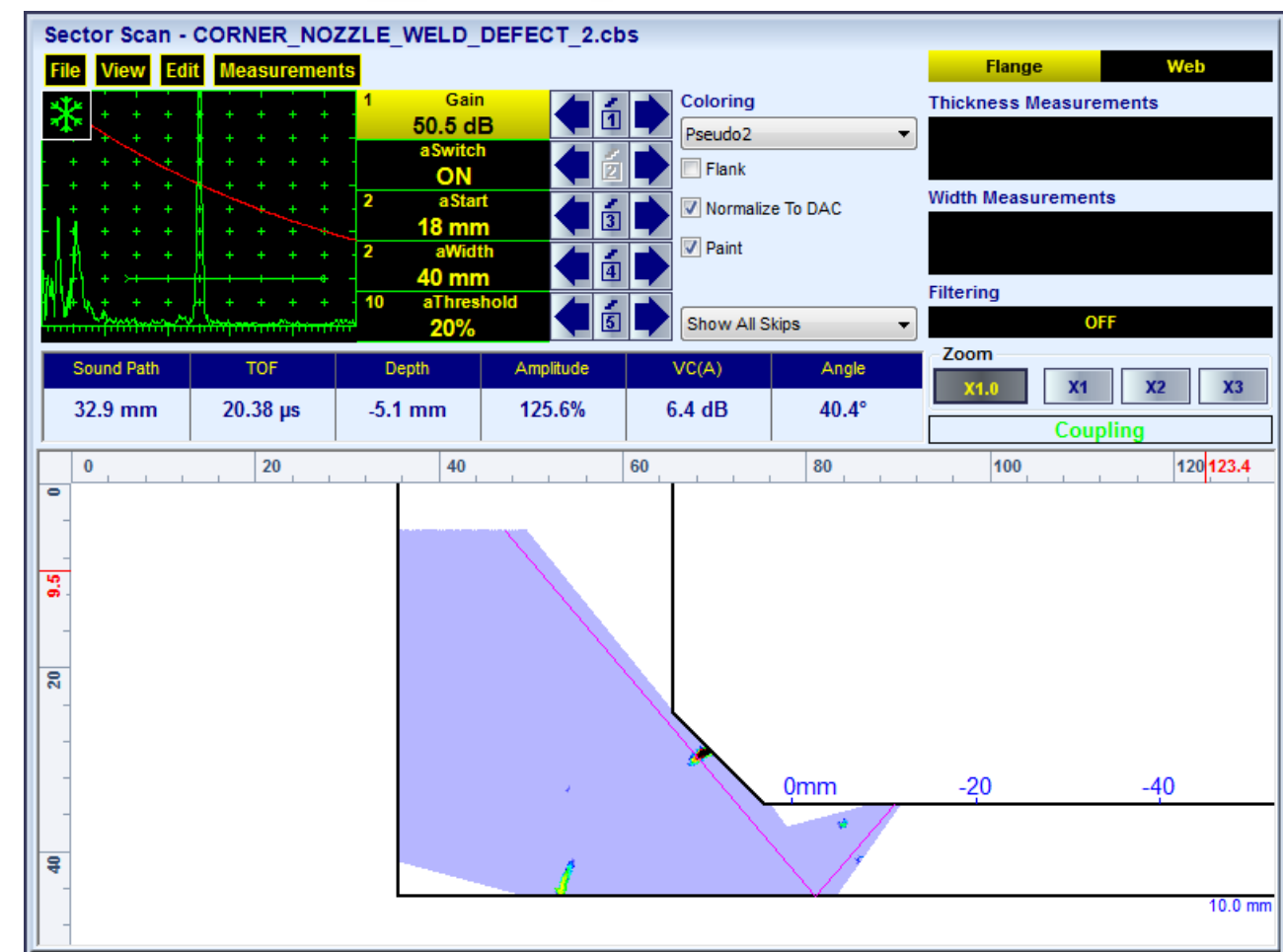
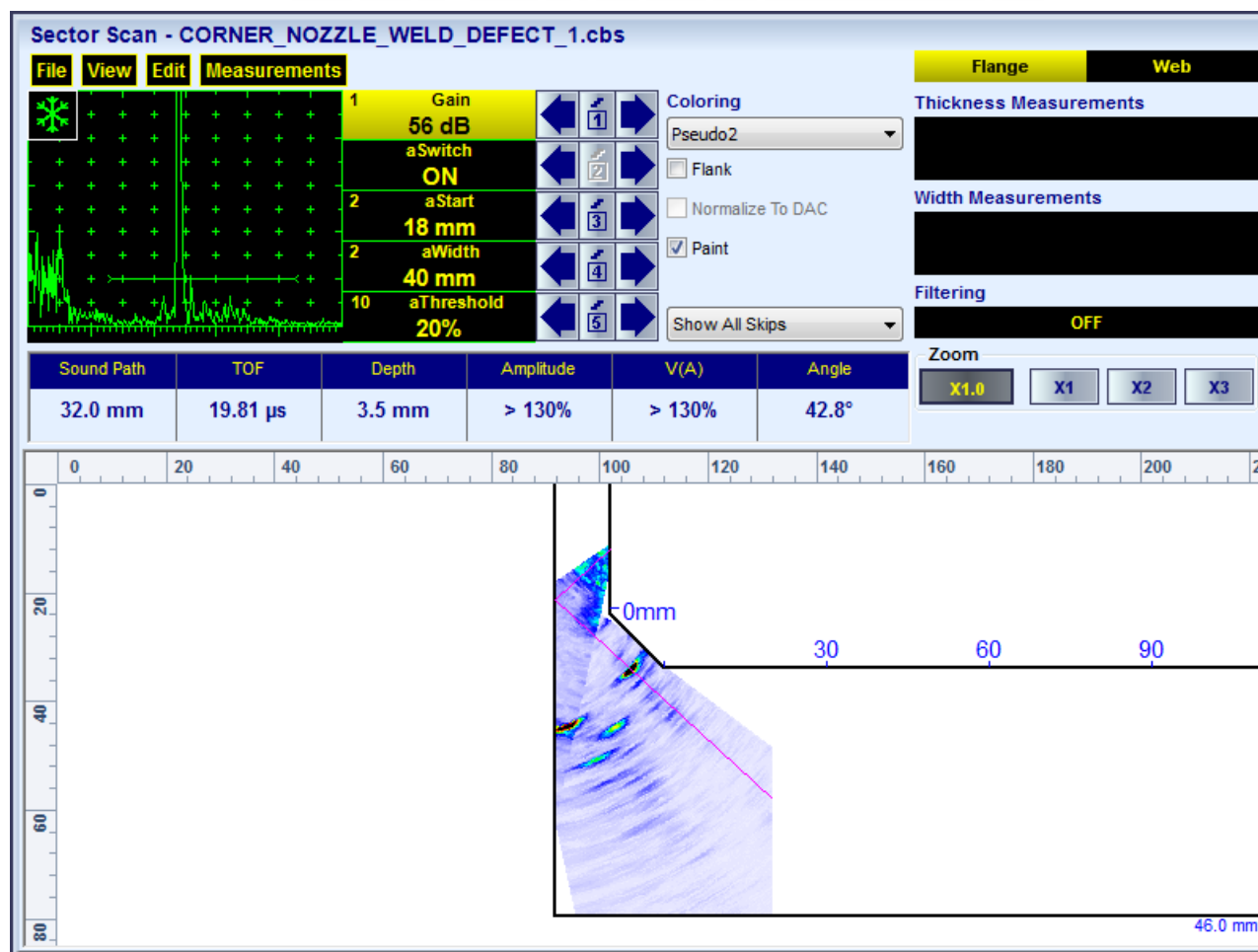
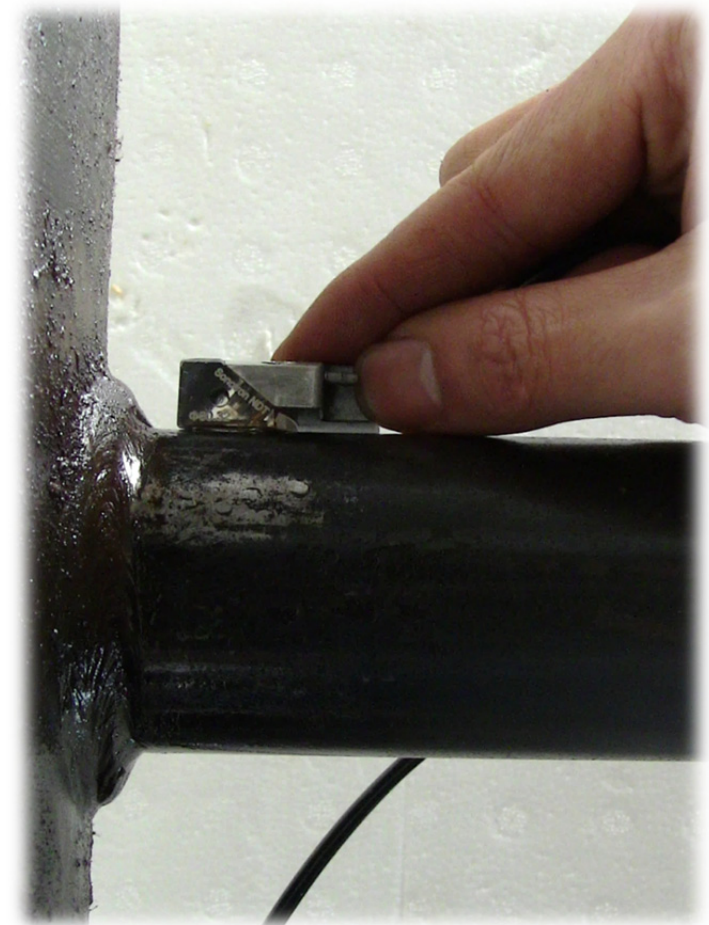
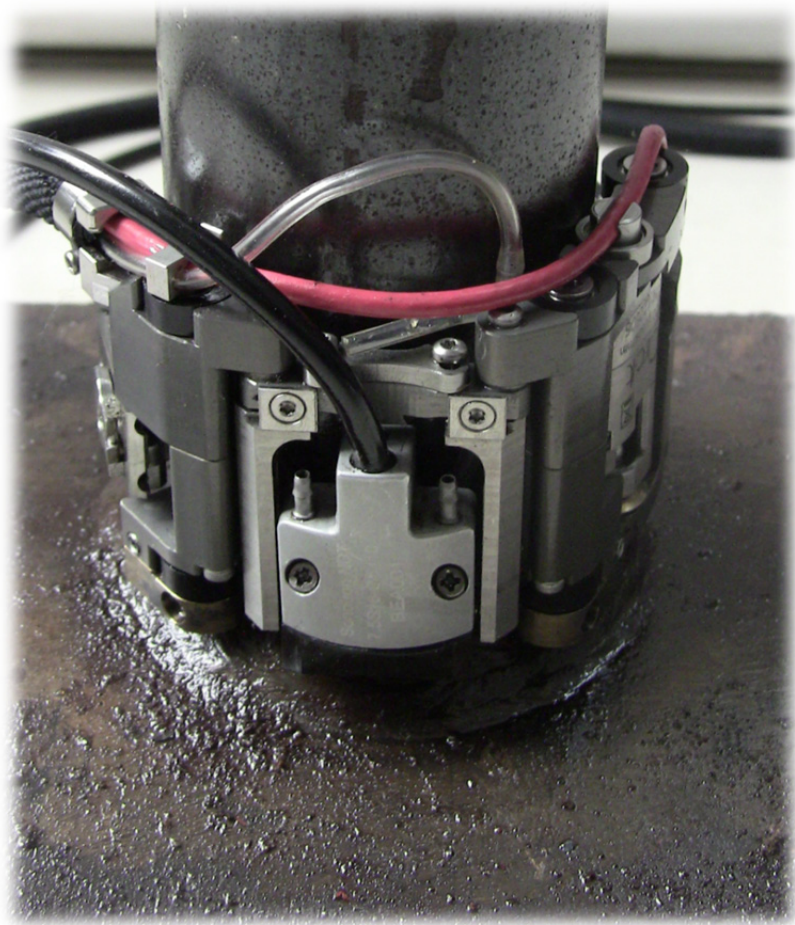




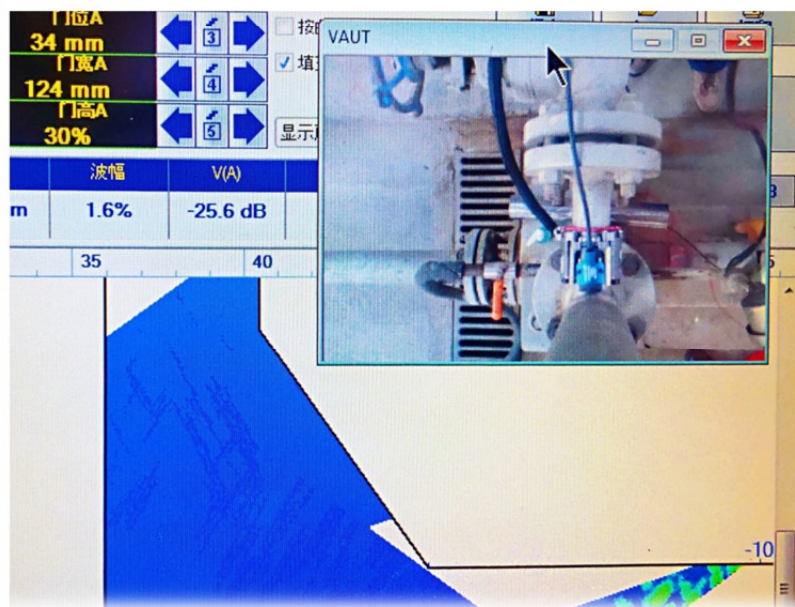
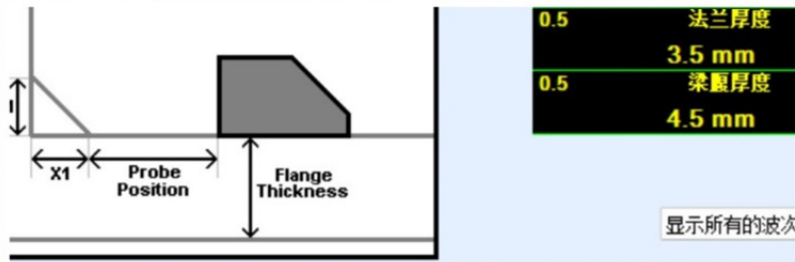
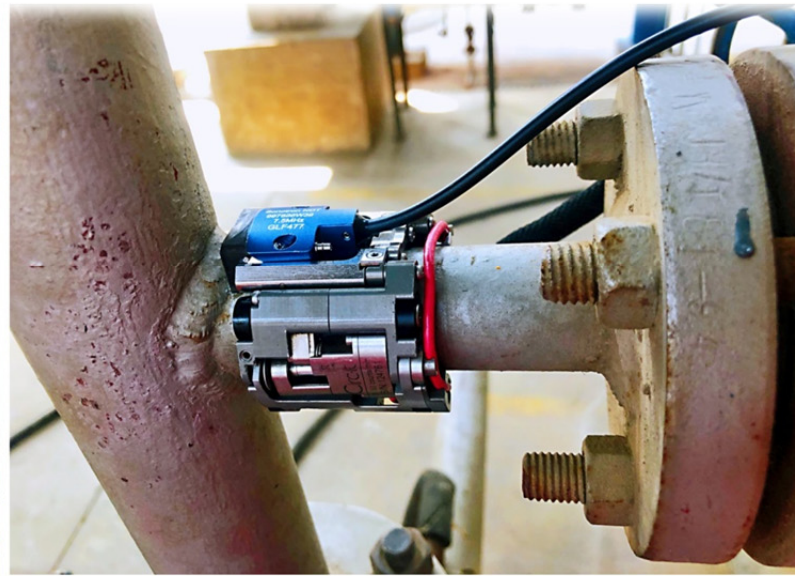
*Structural straight corner weld between thin wall rectangle cross-section profiles*



Shear wave inspection of the straight nozzle weld

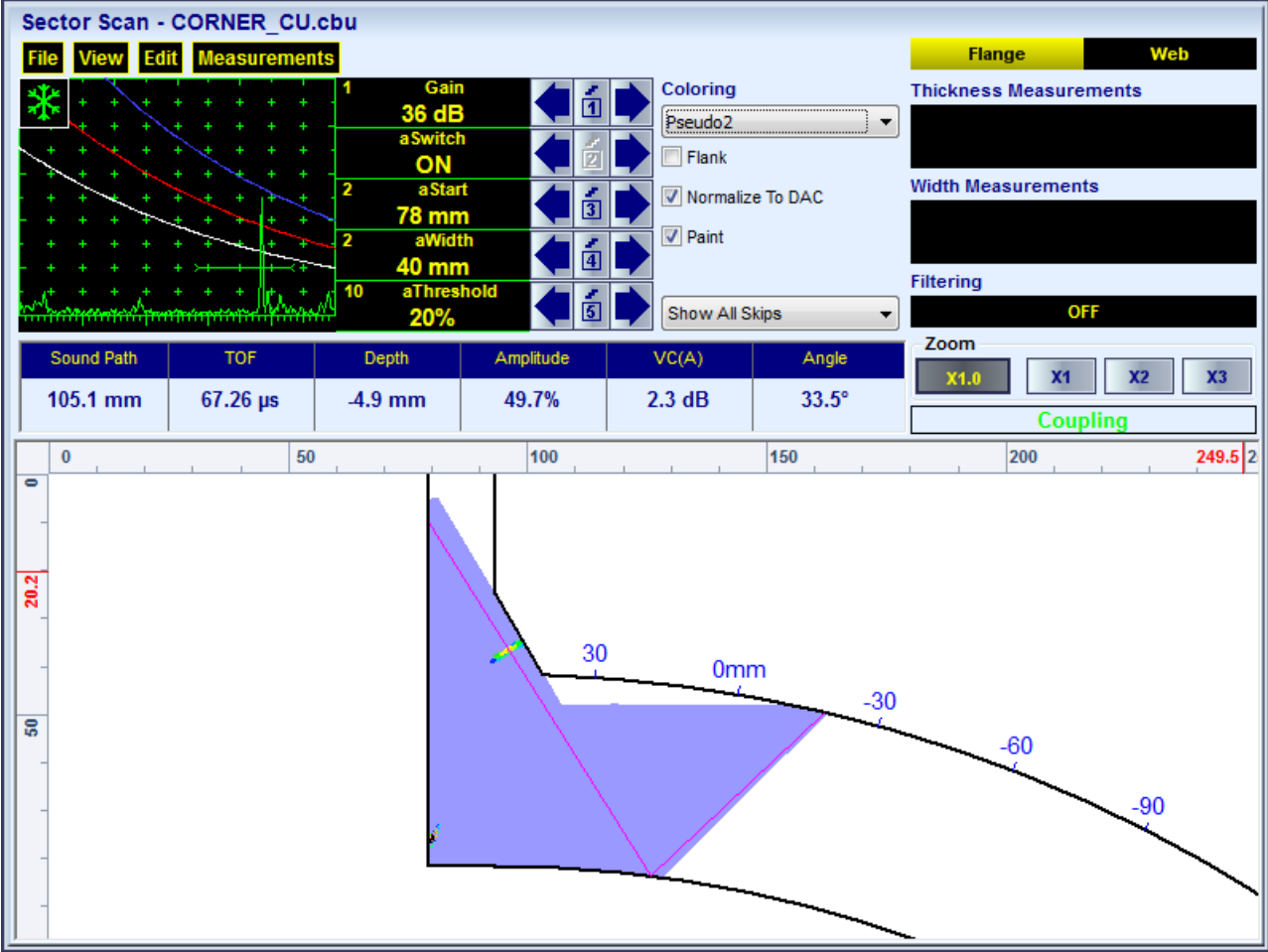








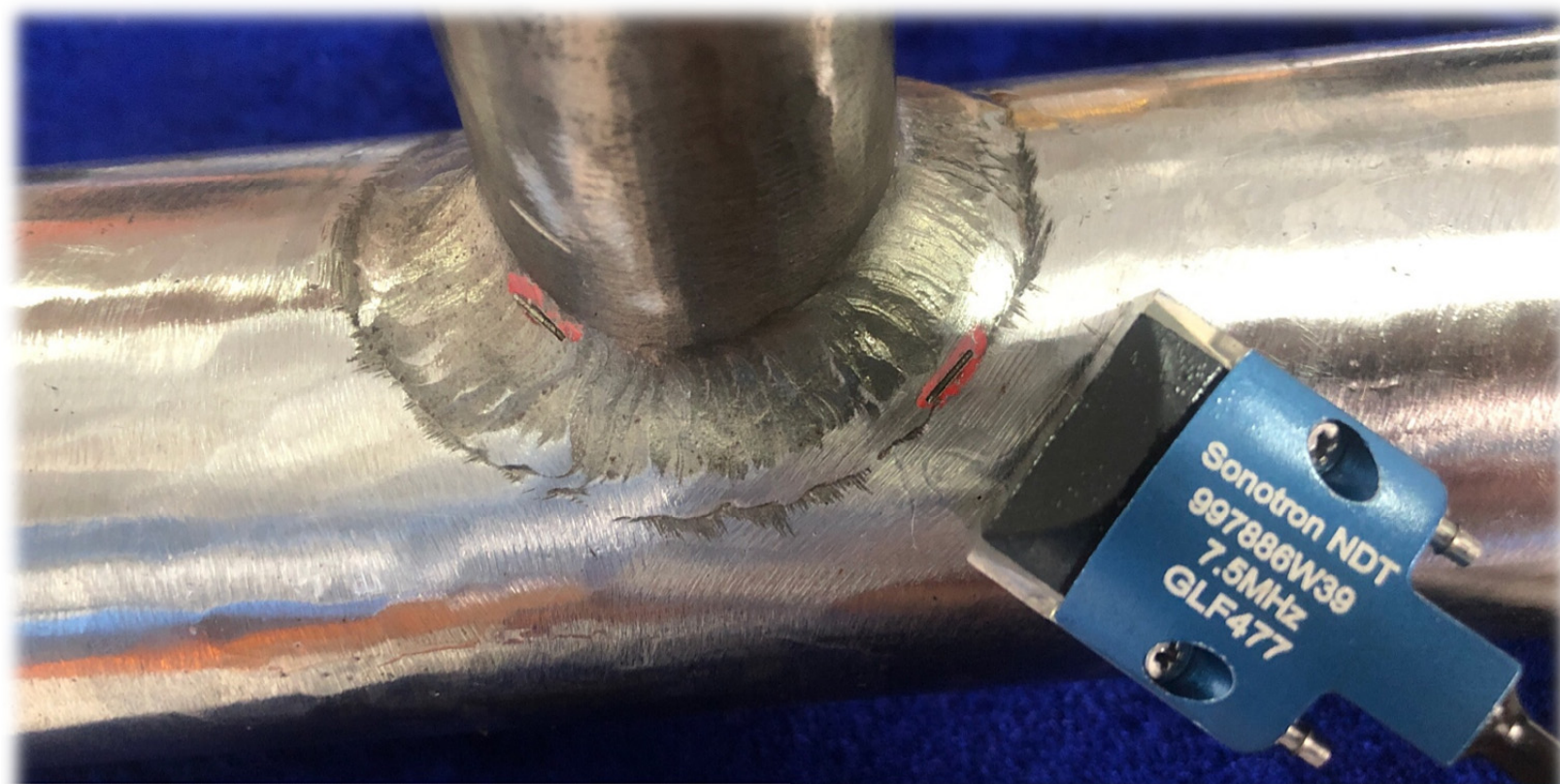
Item	Order Code (Part #)
Inspection SW Application for ISONIC 3510T, ISONIC 3510 - Phased Array Modality: <b>Expert CORNER CU - Inspection of Corner, Nozzle, L-Shape welds with PA Probe - curved cross section of the base surface</b>	SWA 3510017
Inspection SW Application for ISONIC 2010 / ISONIC 2010 EL - Phased Array Modality: <b>Expert CORNER CU - Inspection of Corner, Nozzle, L-Shape welds with PA Probe - curved cross section of the base surface</b>	SWA 910817
Inspection SW Application for ISONIC 2009 UPA-Scope - Phased Array Modality: <b>Expert CORNER CU - Inspection of Corner, Nozzle, L-Shape welds with PA Probe - curved cross section of the base surface</b> ⇒ True-To-Geometry Weld Overlay Volume Corrected Imaging - Cross Sectional and Top (C-Scan)- / Side- / End- View and 3D ⇒ Sector-Scan Cross Sectional Coverage ⇒ Intuitive Image Guided PA Pulser Receiver with Beam Forming View ⇒ DAC / TCG Normalization ⇒ Built-In Weld Geometry Editor and Ray Tracer - Scanning Pattern Design ⇒ Automatic Curvature Correction for the wedges with contoured contact face ⇒ Independent on TCG Angle Gain Compensation / Gain Per Focal Law Correction ⇒ Automatic Coupling Monitor ⇒ Automatic Scanning Integrity Monitor ⇒ Detection of the defects in the parent material simultaneously with weld inspection ⇒ Encoded and Time based C-Scan ⇒ 100% Raw Data Capturing ⇒ FMC/TFM Protocol for the data acquisition and imaging ⇒ Automatic Defects Alarming Upon C-Scan Acquisition Completed ⇒ Automatic Creation of Editable Defects List ⇒ Automatic Creating of Scanning Integrity Report Upon C-Scan Acquisition Completed ⇒ Comprehensive Postprocessing Including: → Recovery and Evaluation of Captured A-Scans from the Recorded Cross Sectional Views (Sector Scan) and C-Scans → Recovery of Cross Sectional Views from the Recorded C-Scans → Converting Recorded C-Scans or their Segments into 3D Images → Off-Line Gain Manipulation → Off-Line DAC to TCG / TCG to DAC toggling for all types of stored files (A-Scans, cross-sectional views, C-Scans, etc) → Off-Line DAC Normalization of the Recorded Images / DAC Evaluation → Off-Line editing of Angle Gain Compensation / Gain per Shot Correction applied to the stored the Cross-sectional Views / C-Scan data → Numerous Filtering / Reject Options ( by Geometry / Position / By Amplitude / dB-to-DAC / etc ) → Defects Sizing → Automatic Creation of Defect List and Storing it Into a Separate File → Automatic Creating of Scanning Integrity Report → Automatic creating of inspection reports - hard copy / PDF File	SWA 909817



*Shear wave inspection of the header weld*



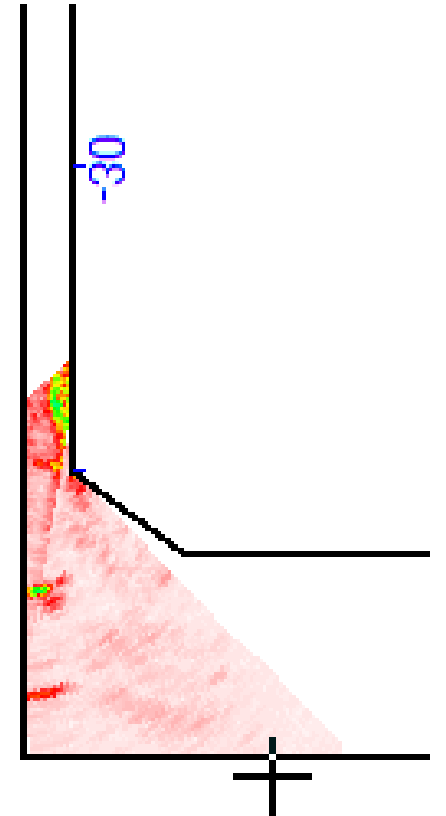
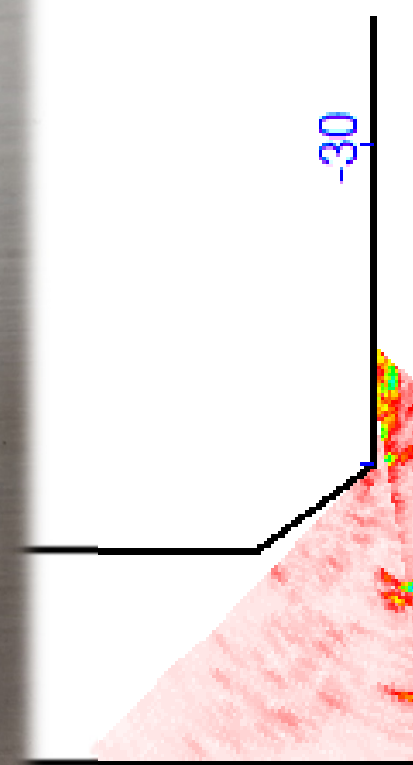
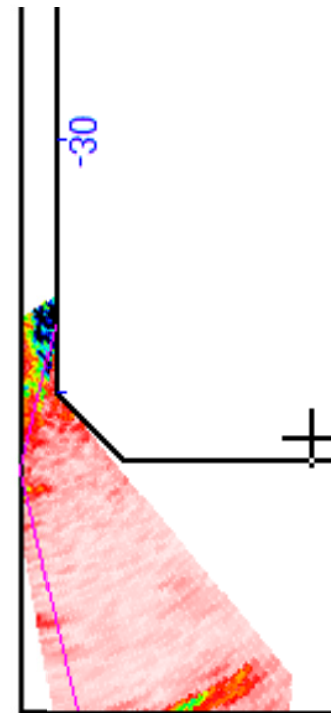




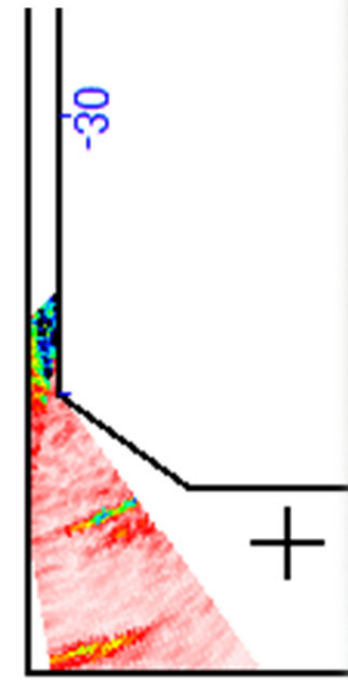
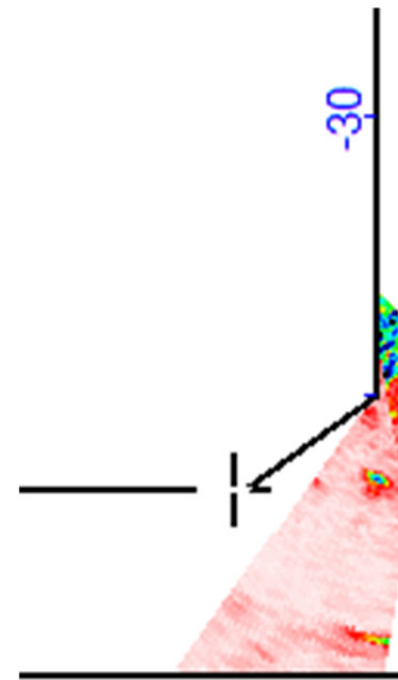
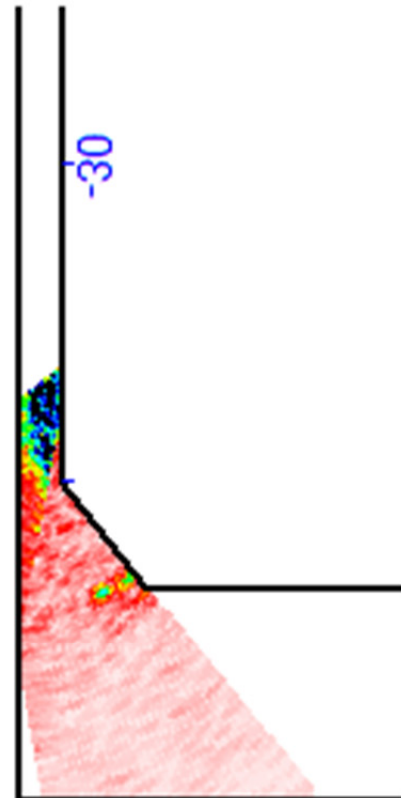
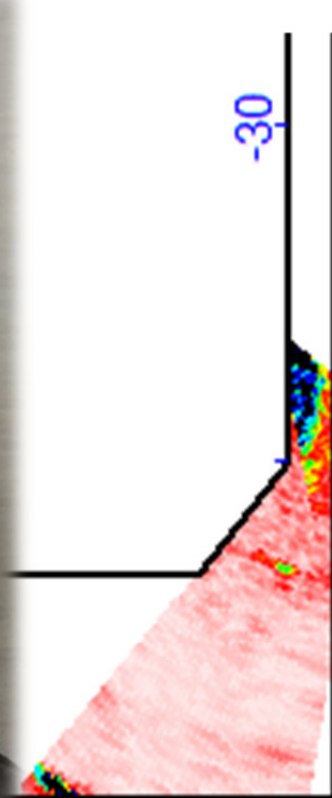




*Inspection of nozzle weld through scanning above the nozzle tube*



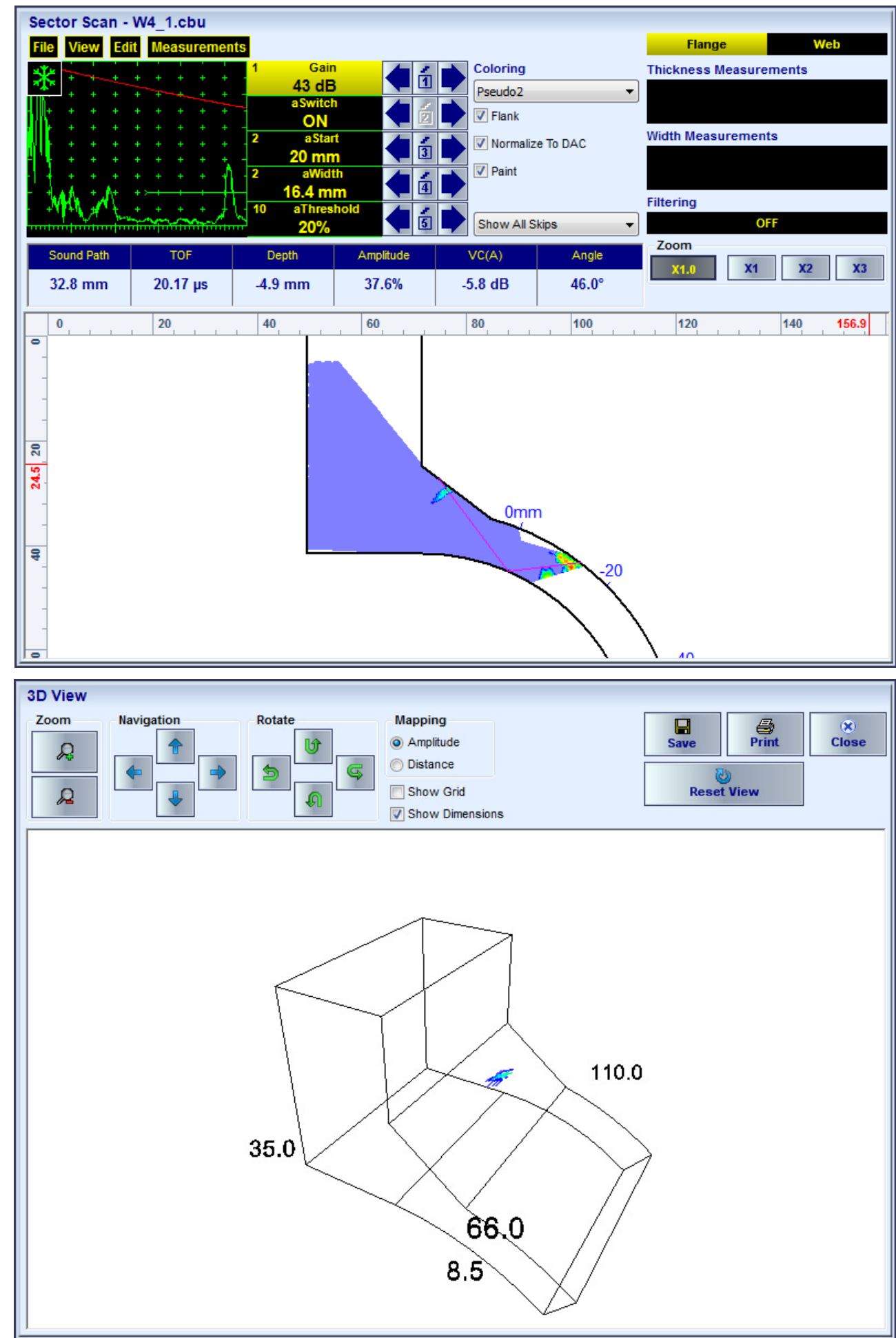








Shear wave inspection of the corner weld: automotive industry







*Shear wave inspection of the corner weld: automotive industry*





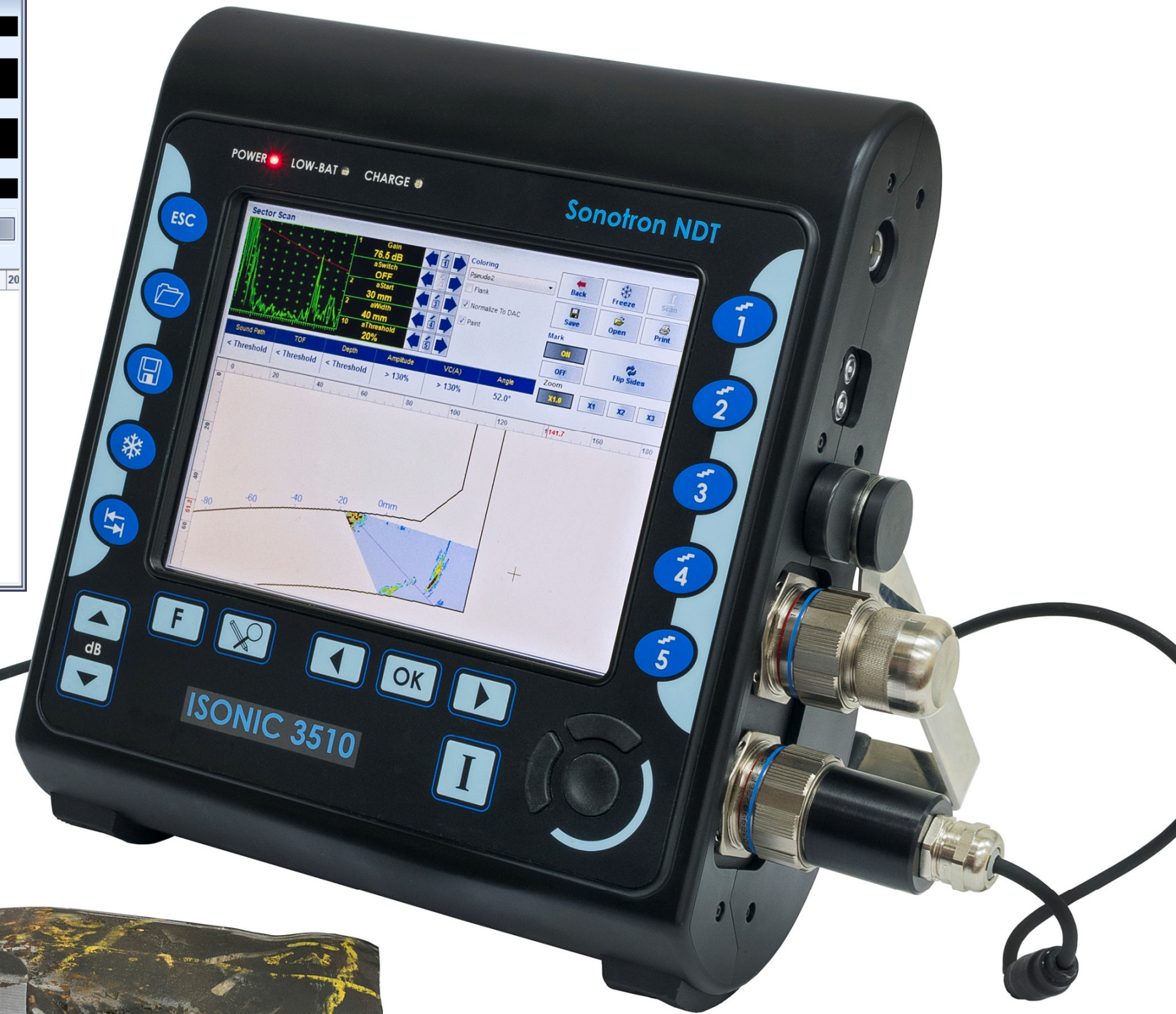
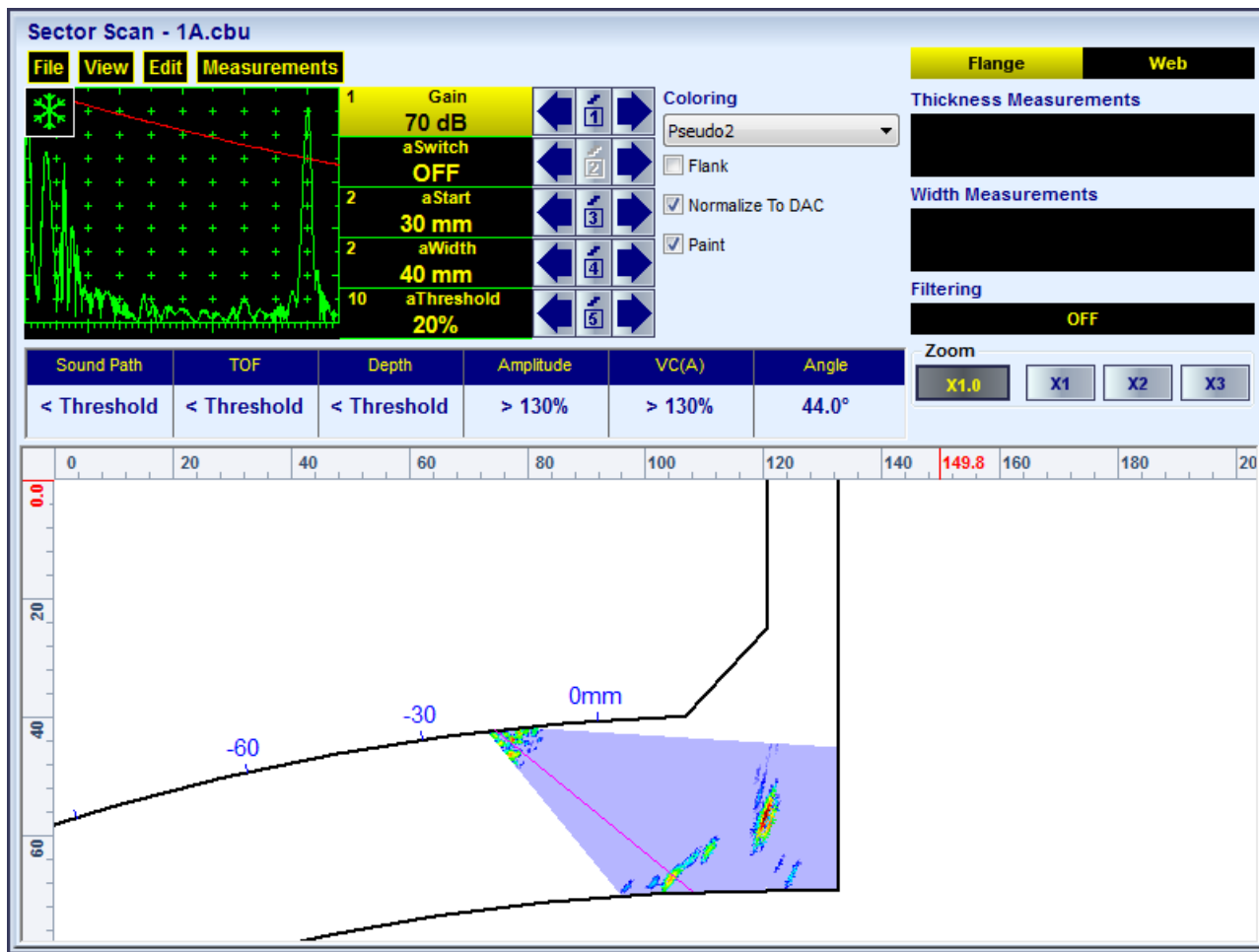
Shear wave inspection of the corner weld: automotive industry





*Shear wave inspection of the corner weld: automotive industry*

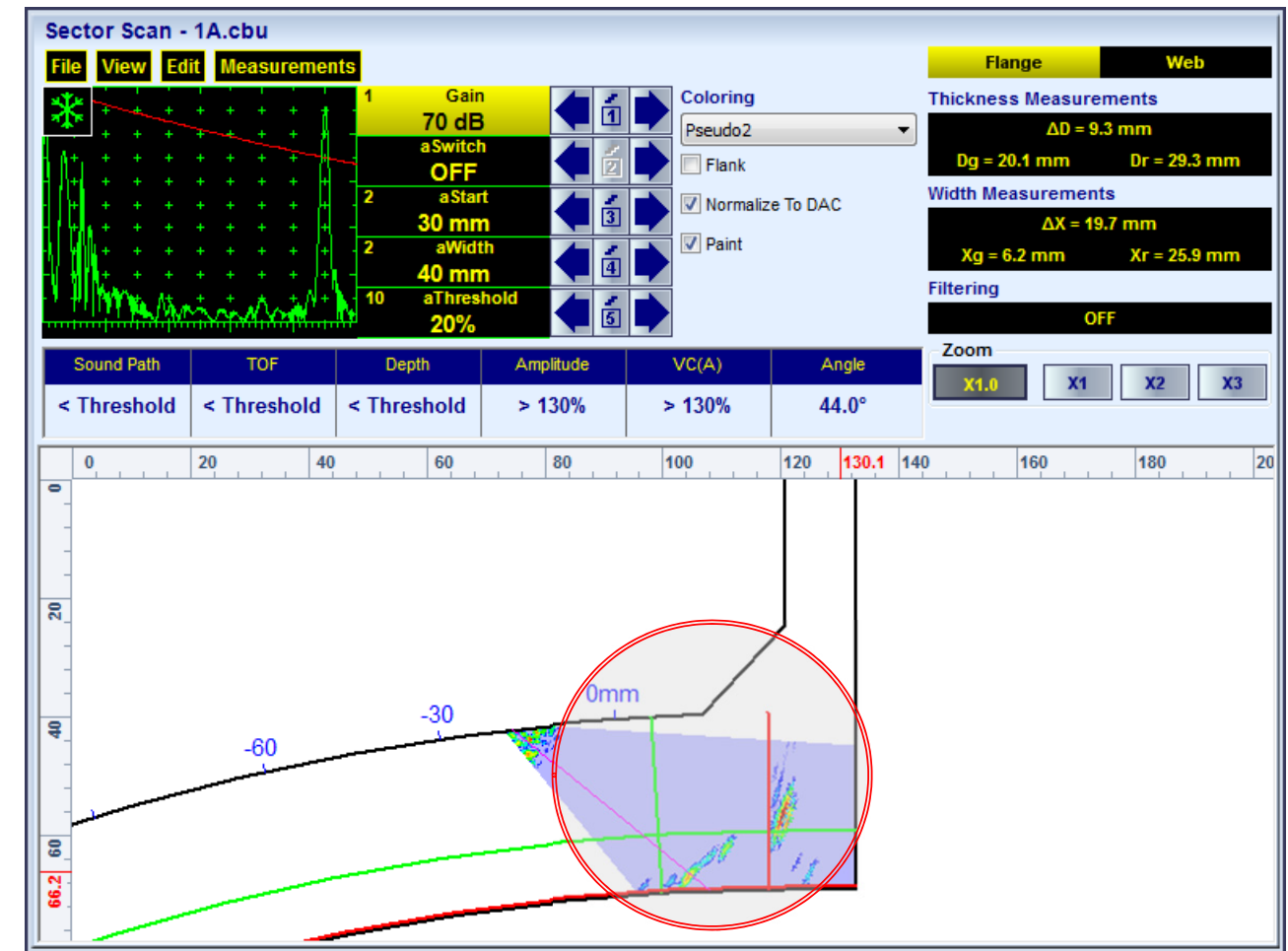




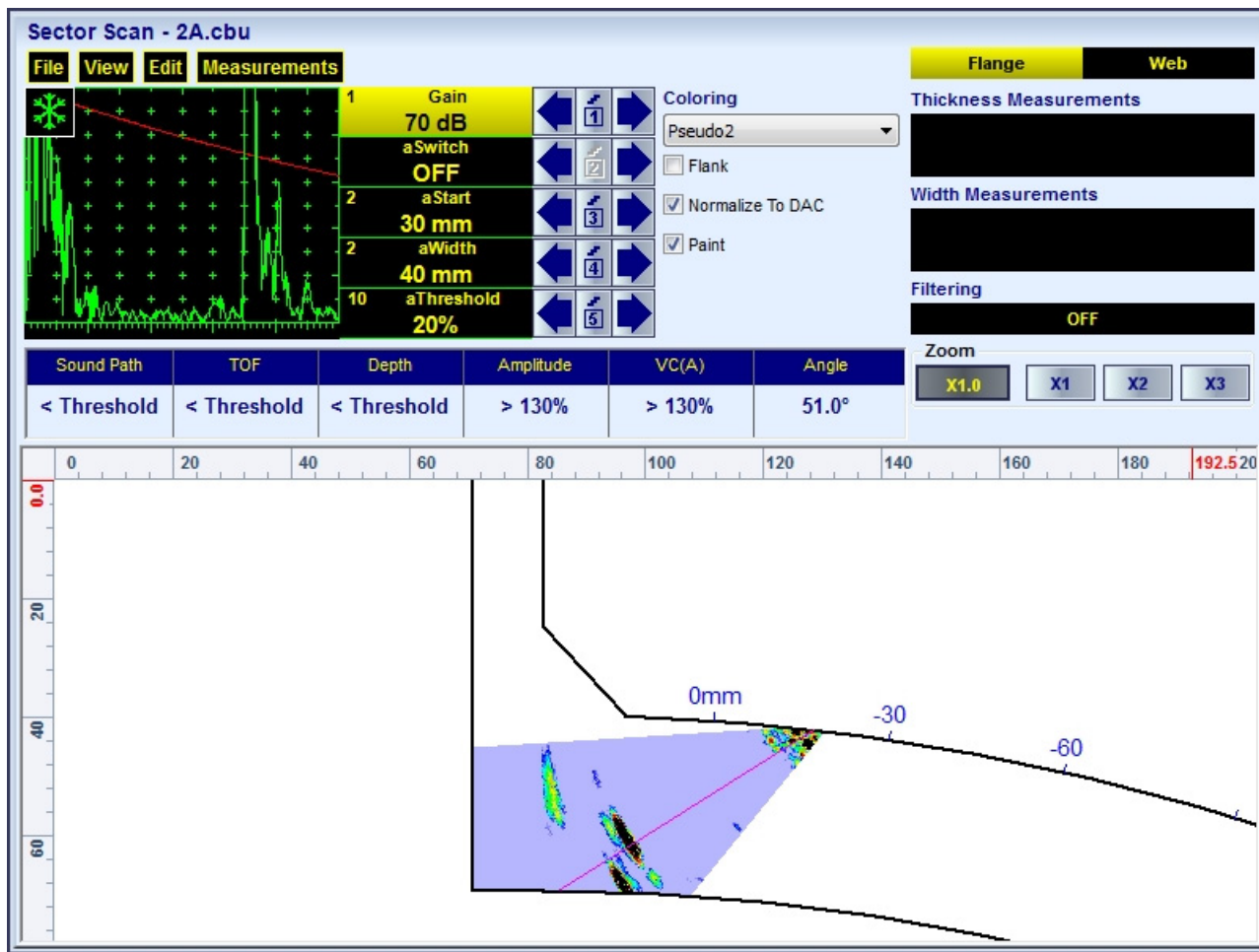
*Shear wave inspection: detection and sizing of the erosion / Flow Accelerated Corrosion (FAC) on the inner surface of vessels, tubes, etc – access holes sealed with radiographic plug welded from outside*



**Shear wave inspection: detection and sizing of the erosion / Flow Accelerated Corrosion (FAC) on the inner surface of vessels, tubes, etc – access holes sealed with radiographic plug welded from outside**

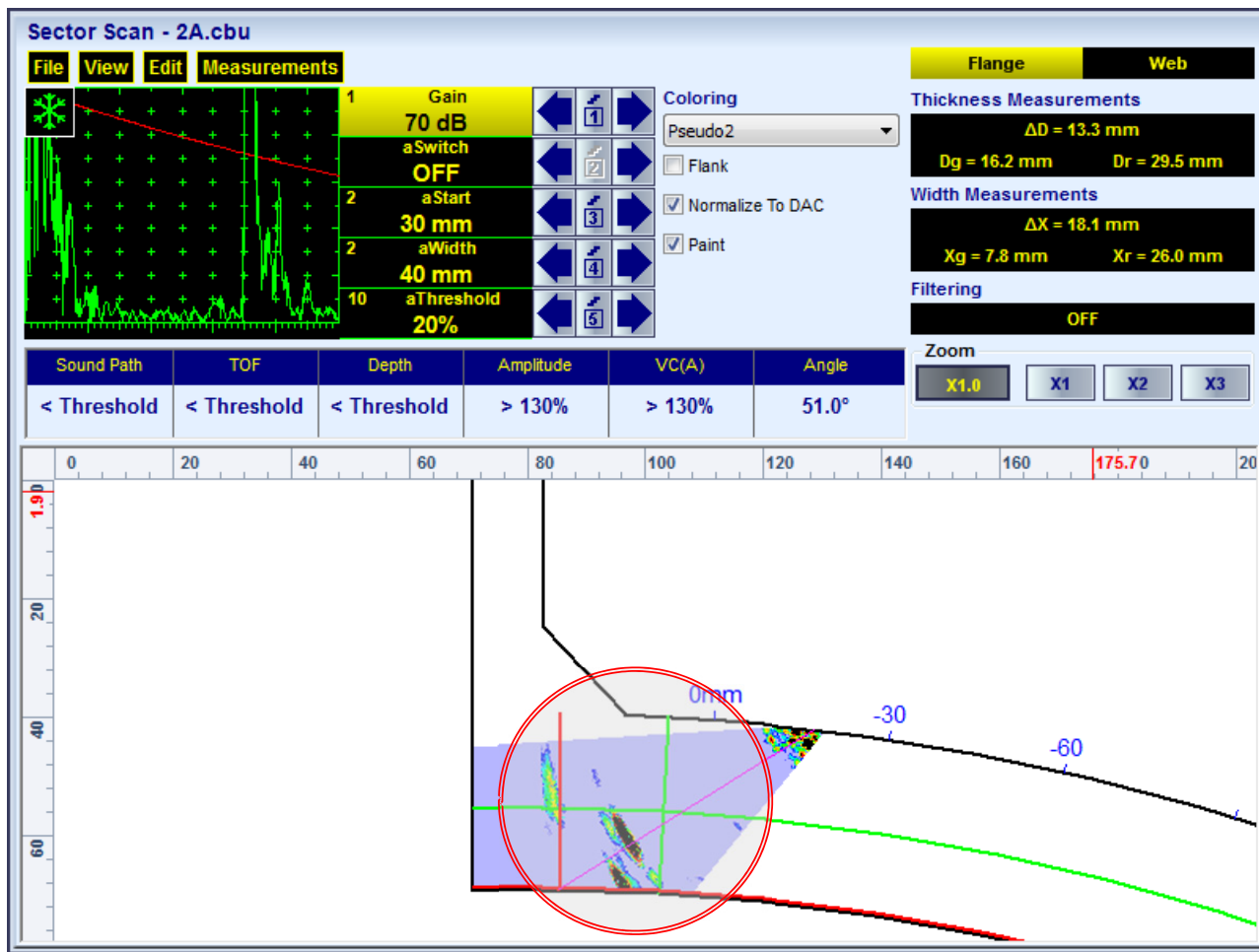




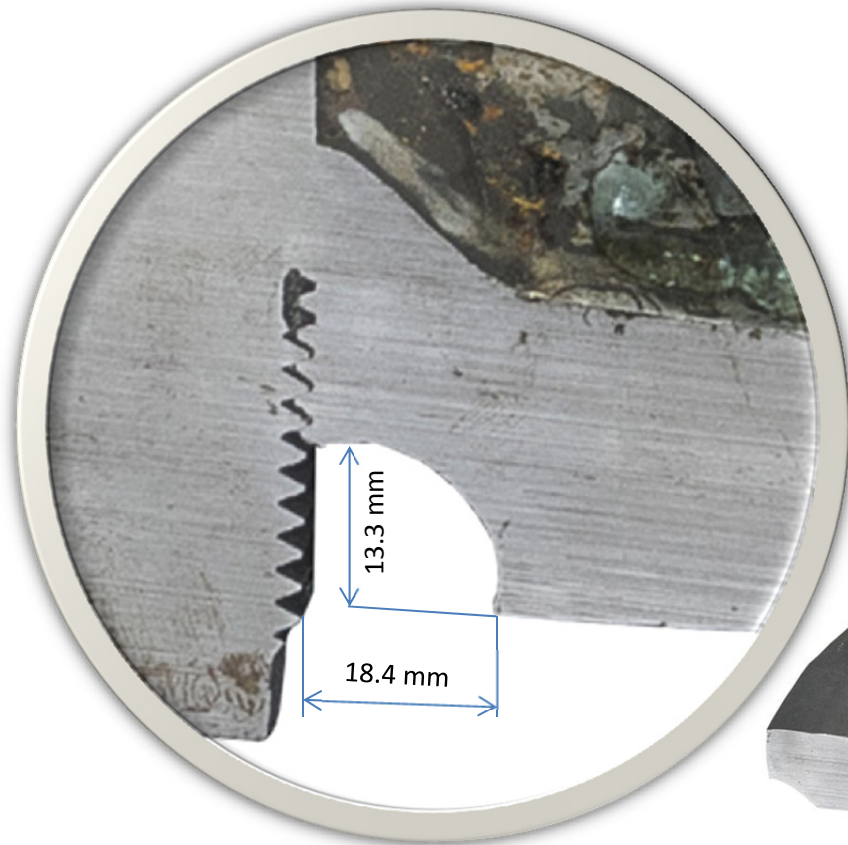


*Shear wave inspection: detection and sizing of the erosion / Flow Accelerated Corrosion (FAC) on the inner surface of vessels, tubes, etc – access holes sealed with radiographic plug welded from outside*





**Shear wave inspection: detection and sizing of the erosion / Flow Accelerated Corrosion (FAC) on the inner surface of vessels, tubes, etc – access holes sealed with radiographic plug welded from outside**







Shear wave inspection of the open corner weld (performance demonstration block)

Item	Order Code (Part #)
Inspection SW Application for ISONIC 3510T, ISONIC 3510 - Phased Array Modality: <b>Expert Edge - Inspection of Edge / Open Corner Joints</b>	SWA 3510038
Inspection SW Application for ISONIC 3510 - Phased Array Modality: <b>Expert Edge - Inspection of Edge / Open Corner Joints</b>	SWA 910838
Inspection SW Application for ISONIC 2009 UPA-Scope - Phased Array Modality: <b>Expert Edge - Inspection of Edge / Open Corner Joints</b>	SWA 909838

- ⇒ True-To-Geometry Weld Overlay Volume Corrected Imaging - Cross Sectional and Top (C-Scan) - / Side- / End- View and 3D
- ⇒ Sector-Scan Cross Sectional Coverage
- ⇒ Intuitive Image Guided PA Pulser Receiver with Beam Forming View
- ⇒ DAC / TCG Normalization
- ⇒ Built-In Weld Geometry Editor and Ray Tracer - Scanning Pattern Design
- ⇒ Independent on TCG Angle Gain Compensation / Gain Per Focal Law Correction
- ⇒ Automatic Coupling Monitor
- ⇒ Automatic Scanning Integrity Monitor
- ⇒ Detection of the defects in the parent material simultaneously with weld inspection
- ⇒ Encoded and Time based C-Scan
- ⇒ 100% Raw Data Capturing
- ⇒ FMC/TFM Protocol for the data acquisition and imaging
- ⇒ Automatic Defects Alarming Upon C-Scan Acquisition Completed
- ⇒ Automatic Creation of Editable Defects List
- ⇒ Automatic Creating of Scanning Integrity Report Upon C-Scan Acquisition Completed
- ⇒ Comprehensive Postprocessing Toolkit Including:
  - Recovery and Evaluation of Captured A-Scans from the Recorded Cross Sectional Views (Sector Scan) and C-Scans
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  - Off-Line Gain Manipulation
  - Off-Line DAC to TCG / TCG to DAC toggling for all types of stored files (A-Scans, cross-sectional views, C-Scans, etc)
  - Off-Line DAC Normalization of the Recorded Images / DAC Evaluation
  - Off-Line editing of Angle Gain Compensation / Gain per Shot Correction applied to the stored the Cross-sectional Views / C-Scan data
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  - Automatic Creation of Defect List and Storing it Into a Separate File
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