ISONIC EXPERT RADIUS

PAUT – Ultrasonic Phased Array Inspection
composites, metals, etc using Linear Array Probes
with delay lines contoured to match
with the inner corner / radius surface

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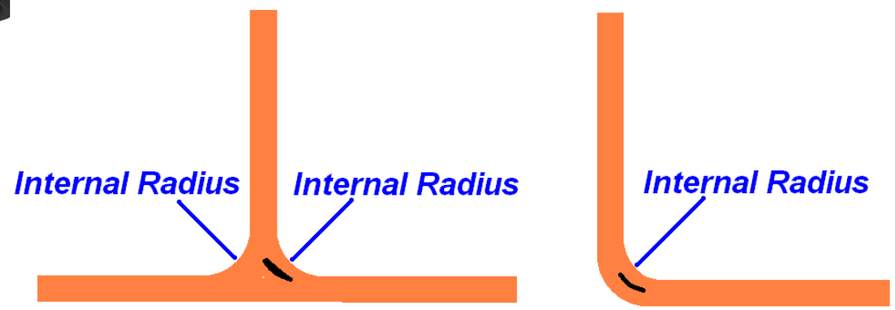
Item	Order Code (Part ##)
Inspection SW Application for ISONIC 3510T, ISONIC 3510 - Phased Array Modality: RADIUS-Scan - **Inspection of corner areas of various parts made of composites, metals, etc using Linear Array Probes equipped with specially designed wedges contoured according to the inner corner / radius surface**	SWA 3510012
Inspection SW Application for ISONIC 2010 - Phased Array Modality: RADIUS-Scan - **Inspection of corner areas of various parts made of composites, metals, etc using Linear Array Probes equipped with specially designed wedges contoured according to the inner corner / radius surface**	SWA 910812
Inspection SW Application for ISONIC 2009 UPA-Scope - Phased Array Modality: **RADIUS-Scan - Inspection of corner areas of various parts made of composites, metals, etc using Linear Array Probes equipped with specially designed wedges contoured according to corner / radius corner surface**	SWA 909812
⇨ True-To-Geometry Weld Overlay Volume Corrected Imaging - Cross Sectional and Top (C-Scan)- / Side- / End- View and 3D ⇨ 0-Deg-Corner-Scan Cross Sectional Coverage ⇨ Intuitive Image Guided PA Pulser Receiver with Beam Forming View ⇨ DAC / TCG Normalization ⇨ Built-In Corner Shape Geometry Editor and Ray Tracer - Scanning Pattern Design ⇨ Independent on TCG Gain Per Focal Law Correction ⇨ Encoded and Time based C-Scan ⇨ 100% Raw Data Capturing ⇨ Automatic Defects Alarming Upon C-Scan Acquisition Completed ⇨ Automatic Creation of Editable Defects List ⇨ Comprehensive Postrpocessing 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 veiwes, C-Scans, etc) → Off-Line DAC Normalization of the Recorded Images / DAC Evaluation → Off-Line editing of 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 / et → 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	

Inspection of the radius area in the CRFP stringers



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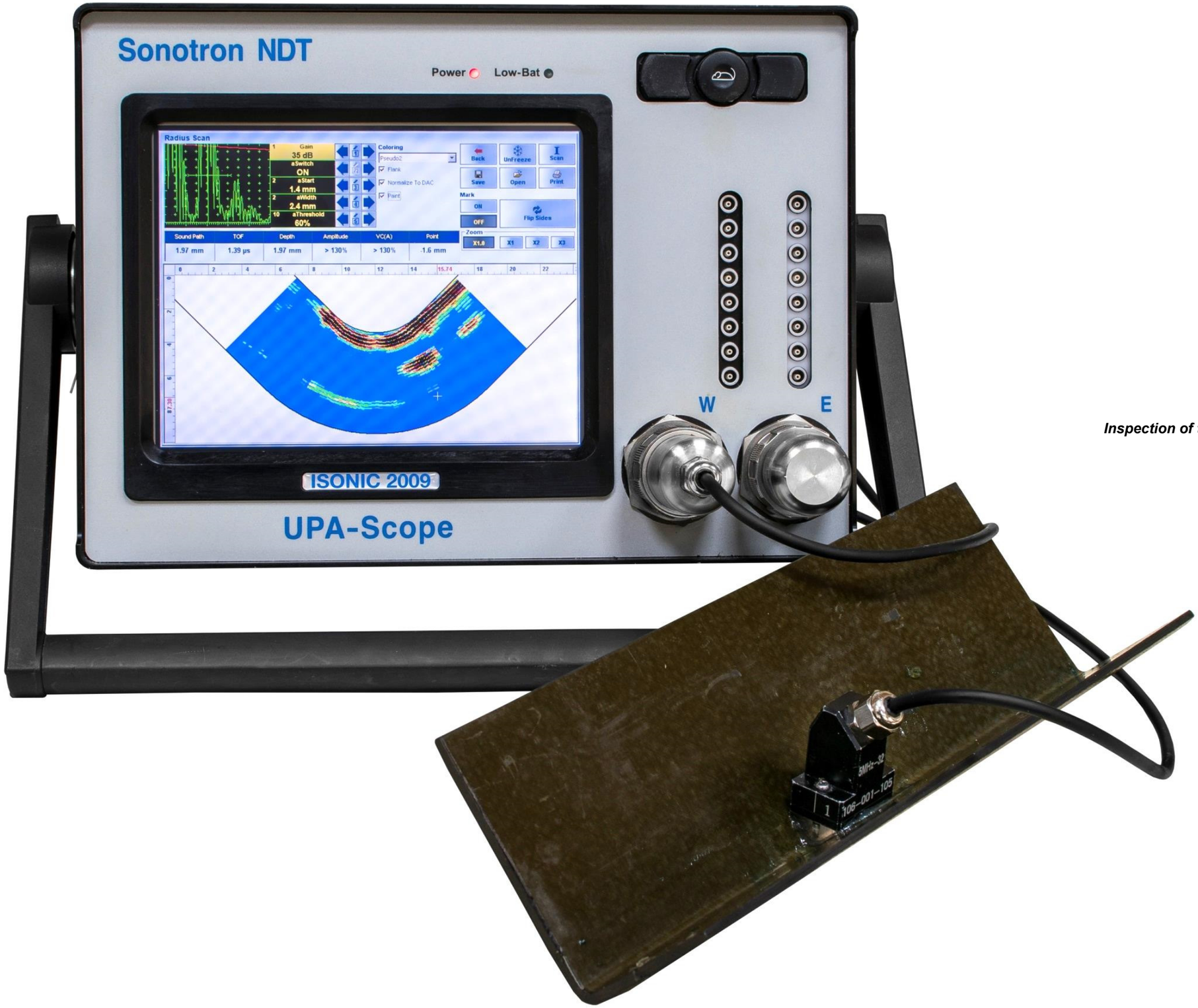

Inspection of the radius area in the CRFP stringers

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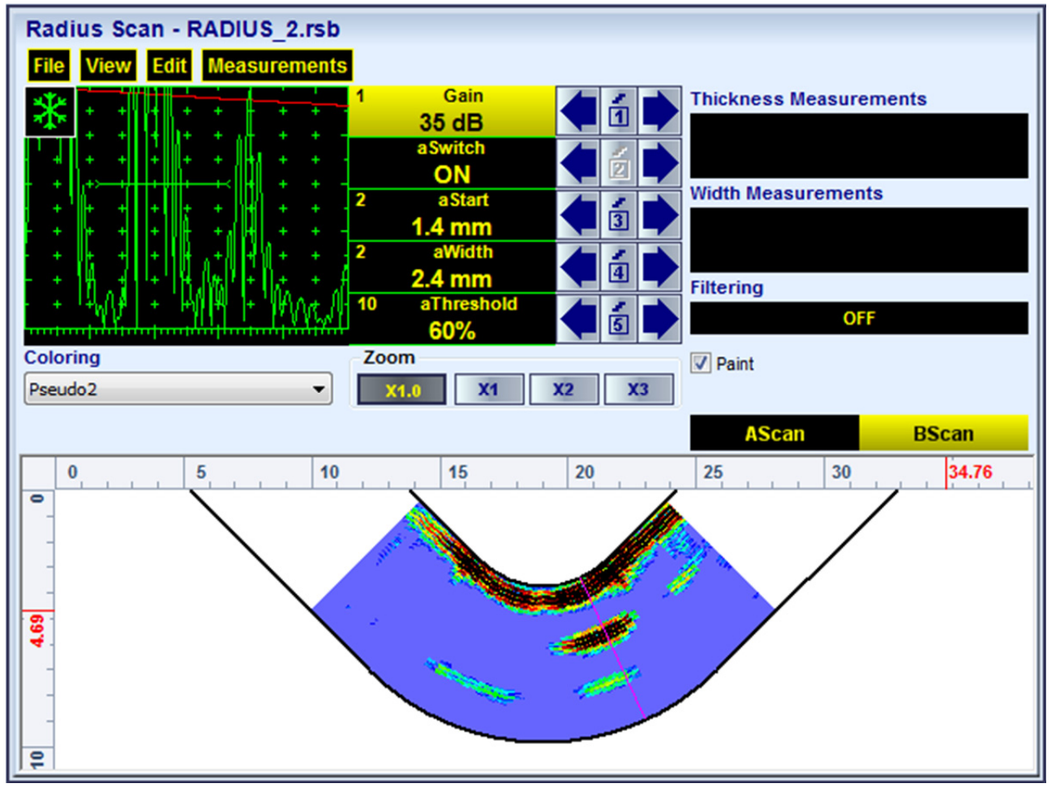

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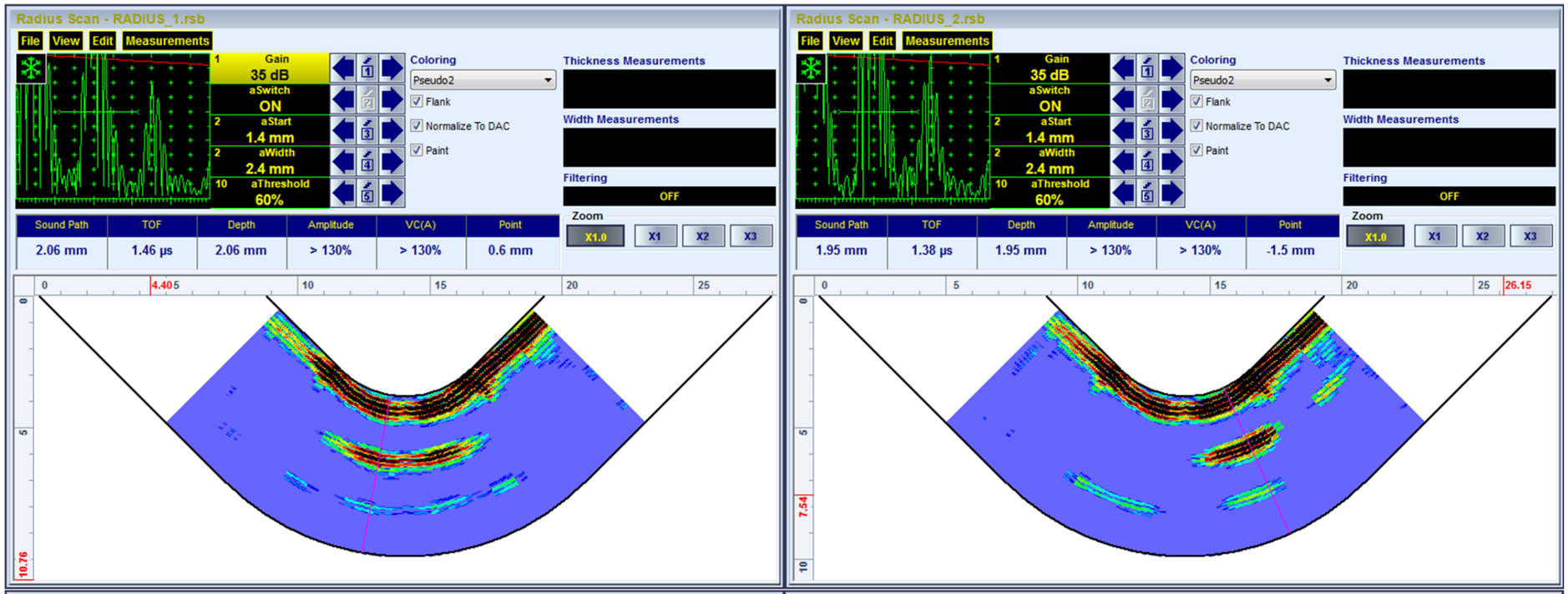
Typical Postprocessing Screenshots



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Inspection of the radius area in the heavy composite stringers

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Initially developed for the inspection of the bended areas of the composite profiles the RADIUS-Scan inspection SW application id also suitable for the inspection of various metallic parts, for example, rotor shafts, castings, etc from the bored surface

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Calibration Block / PDB for the shaft inspection

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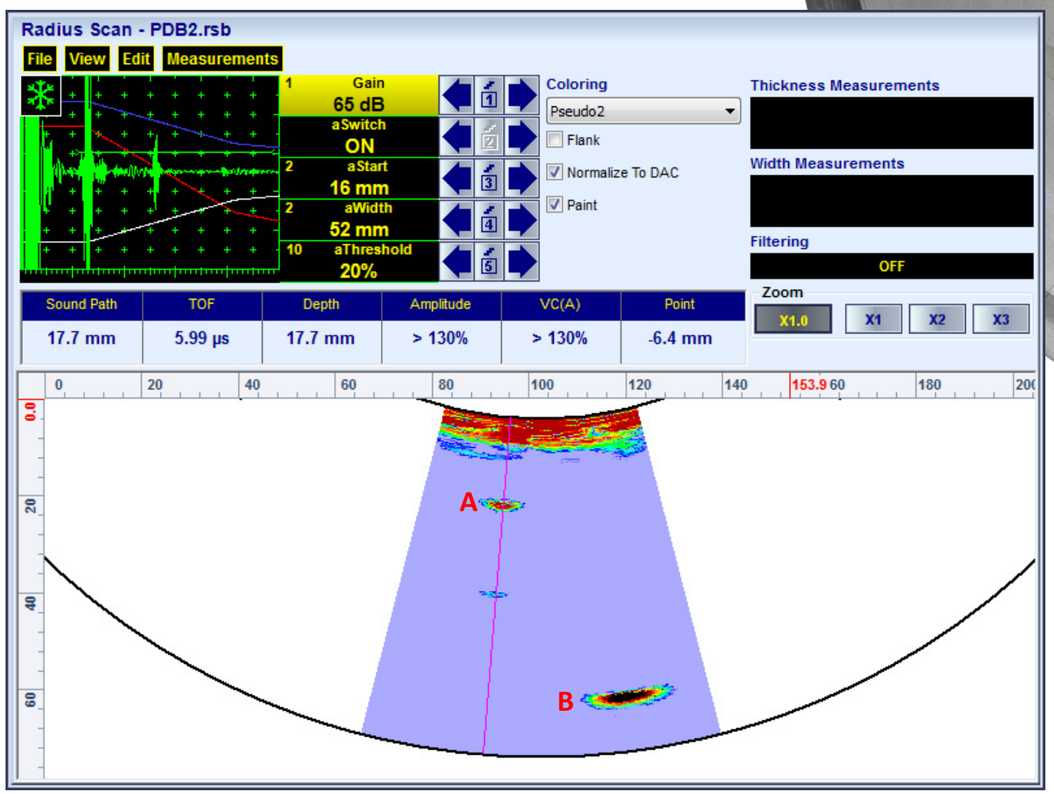
Calibration Block / PDB for the shaft inspection



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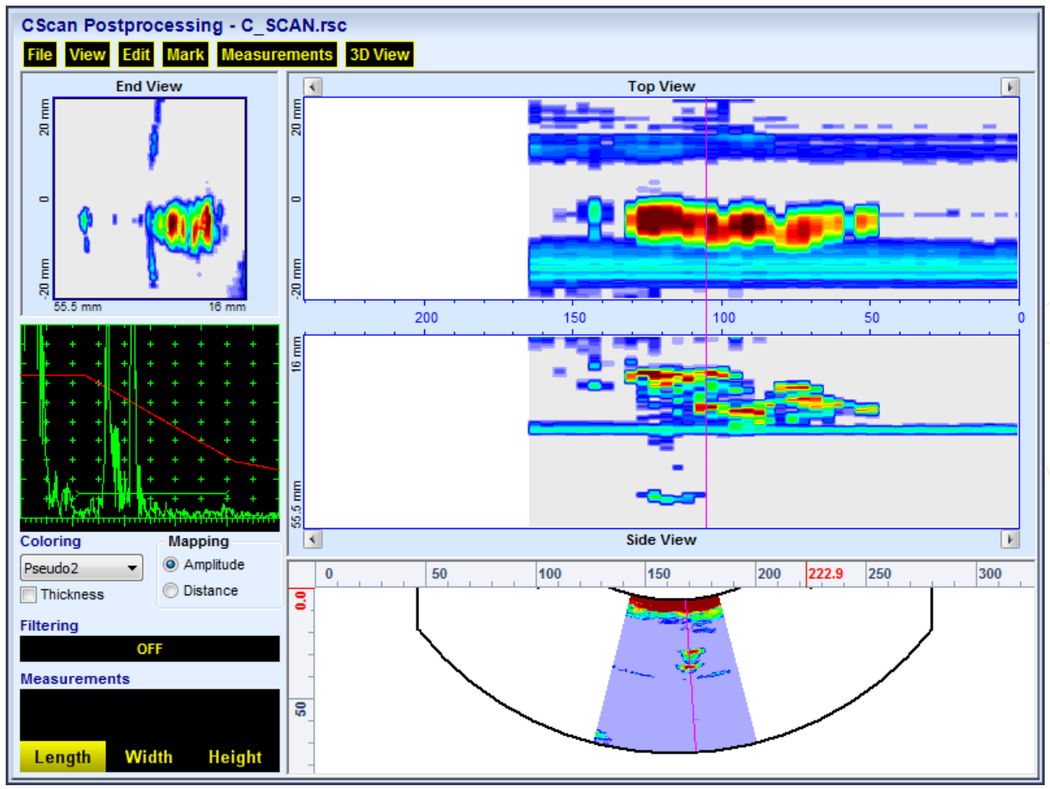

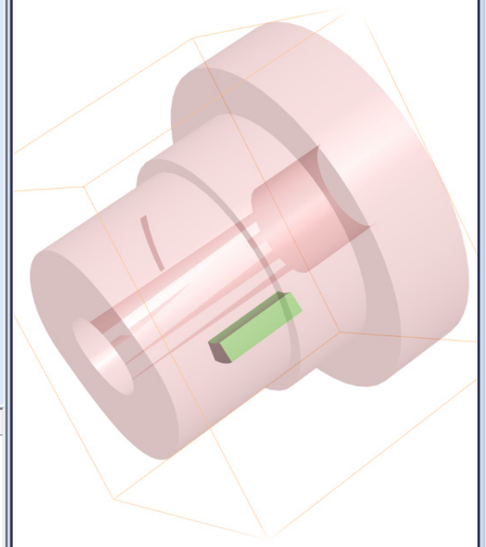

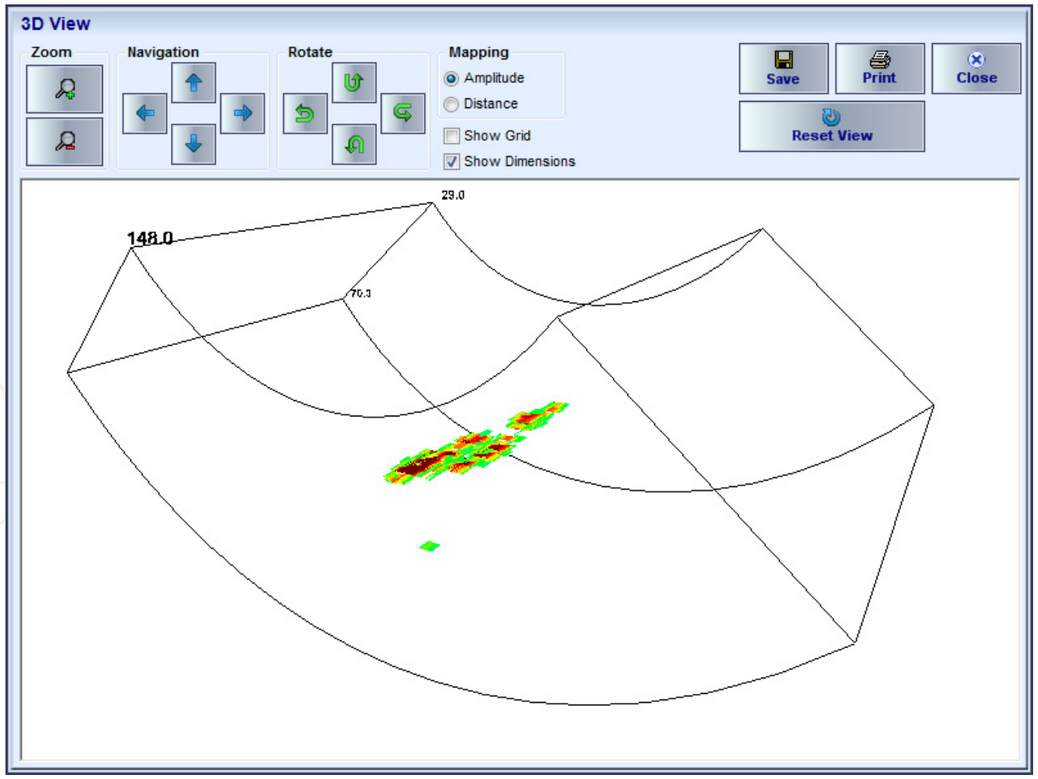

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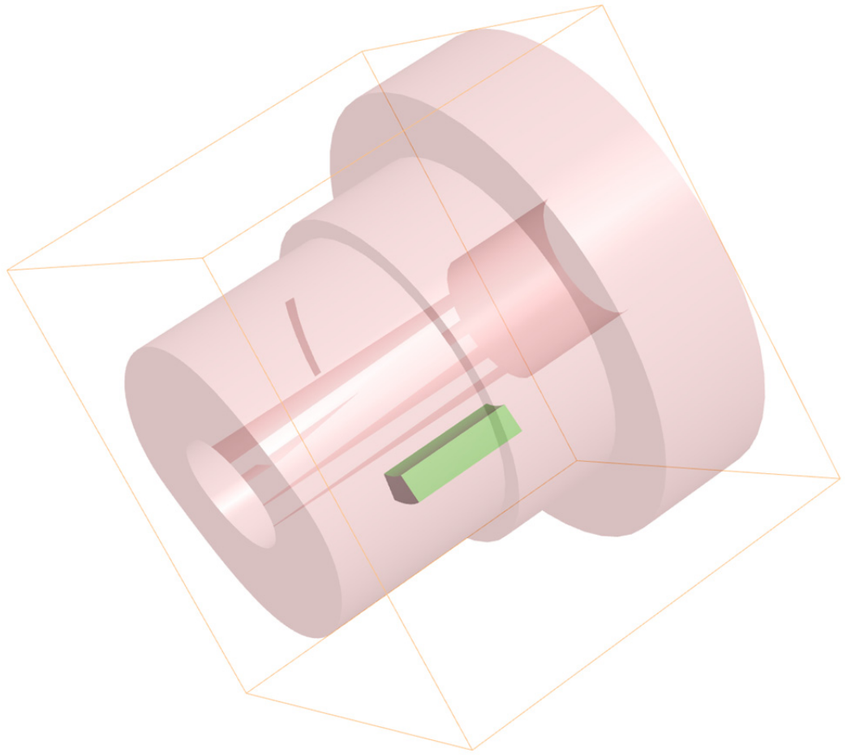

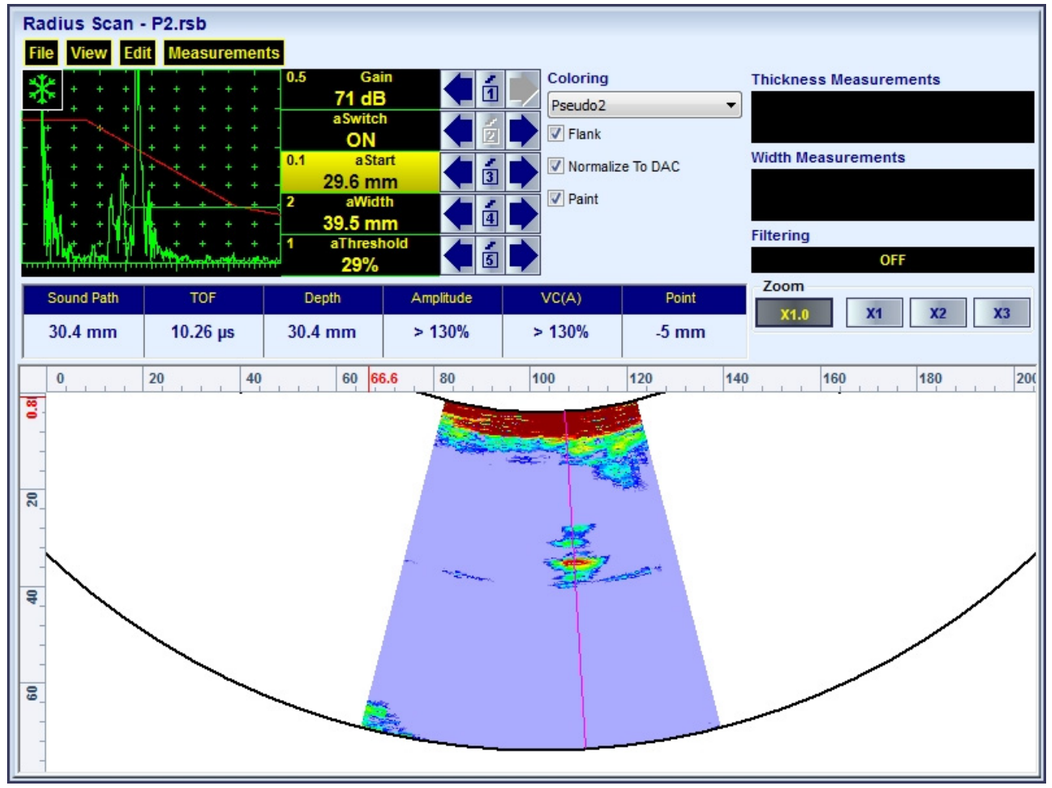

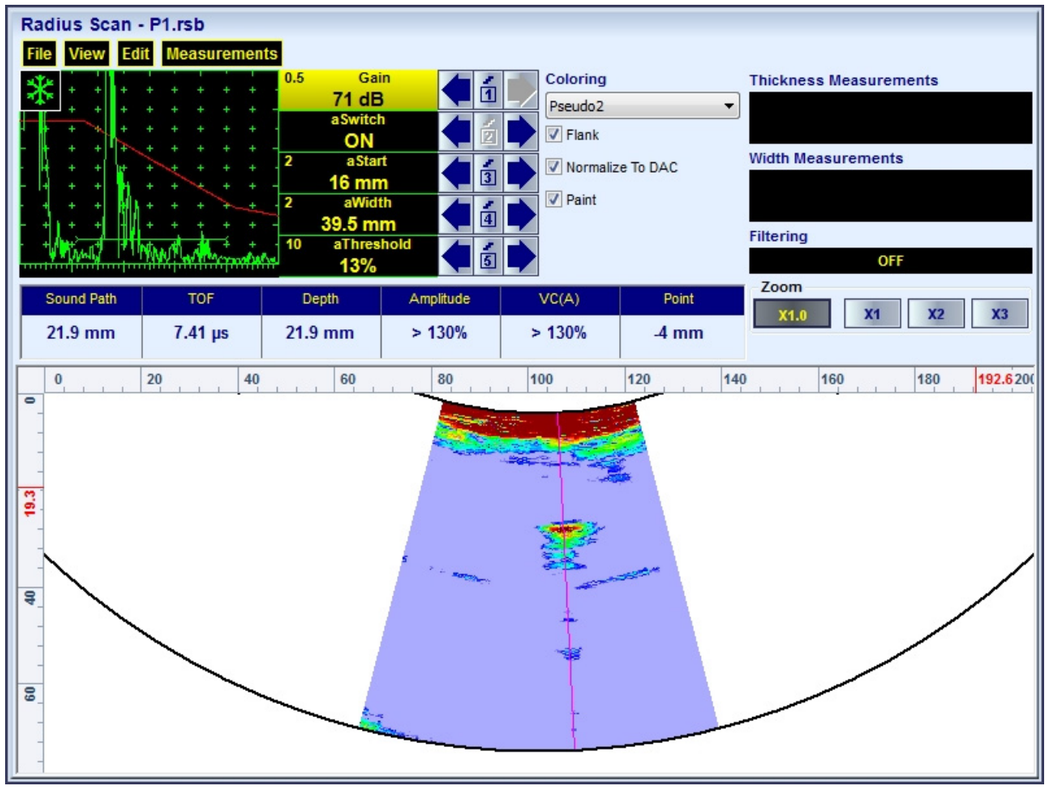

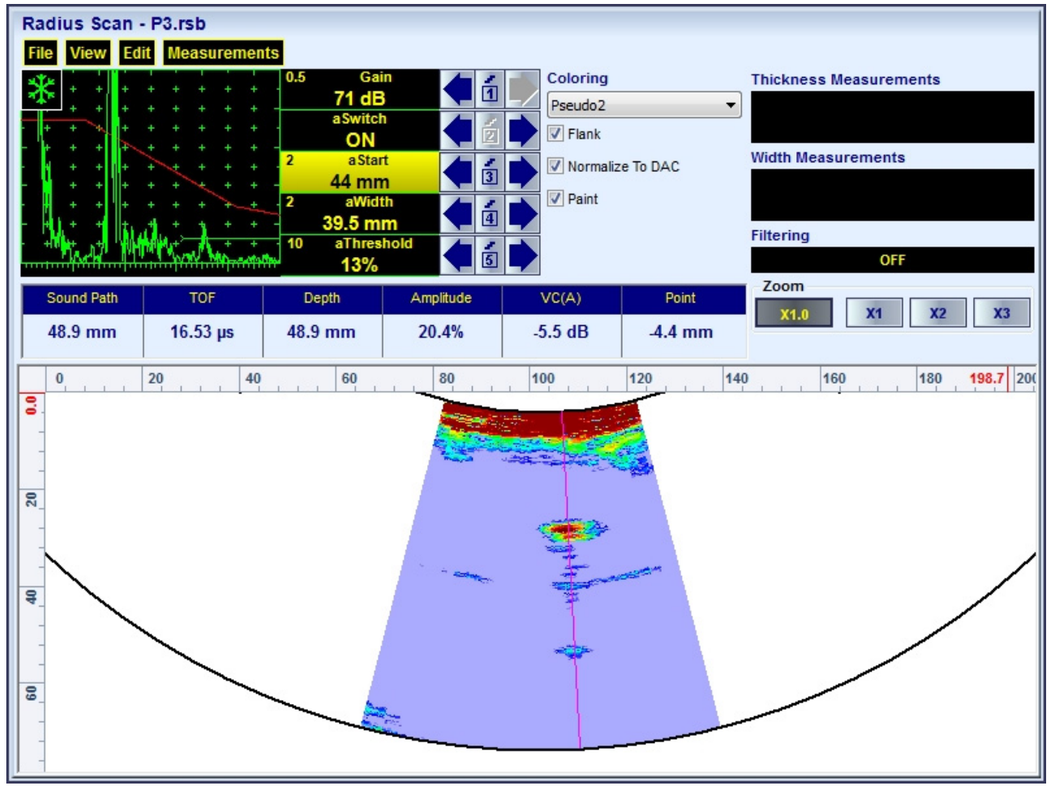

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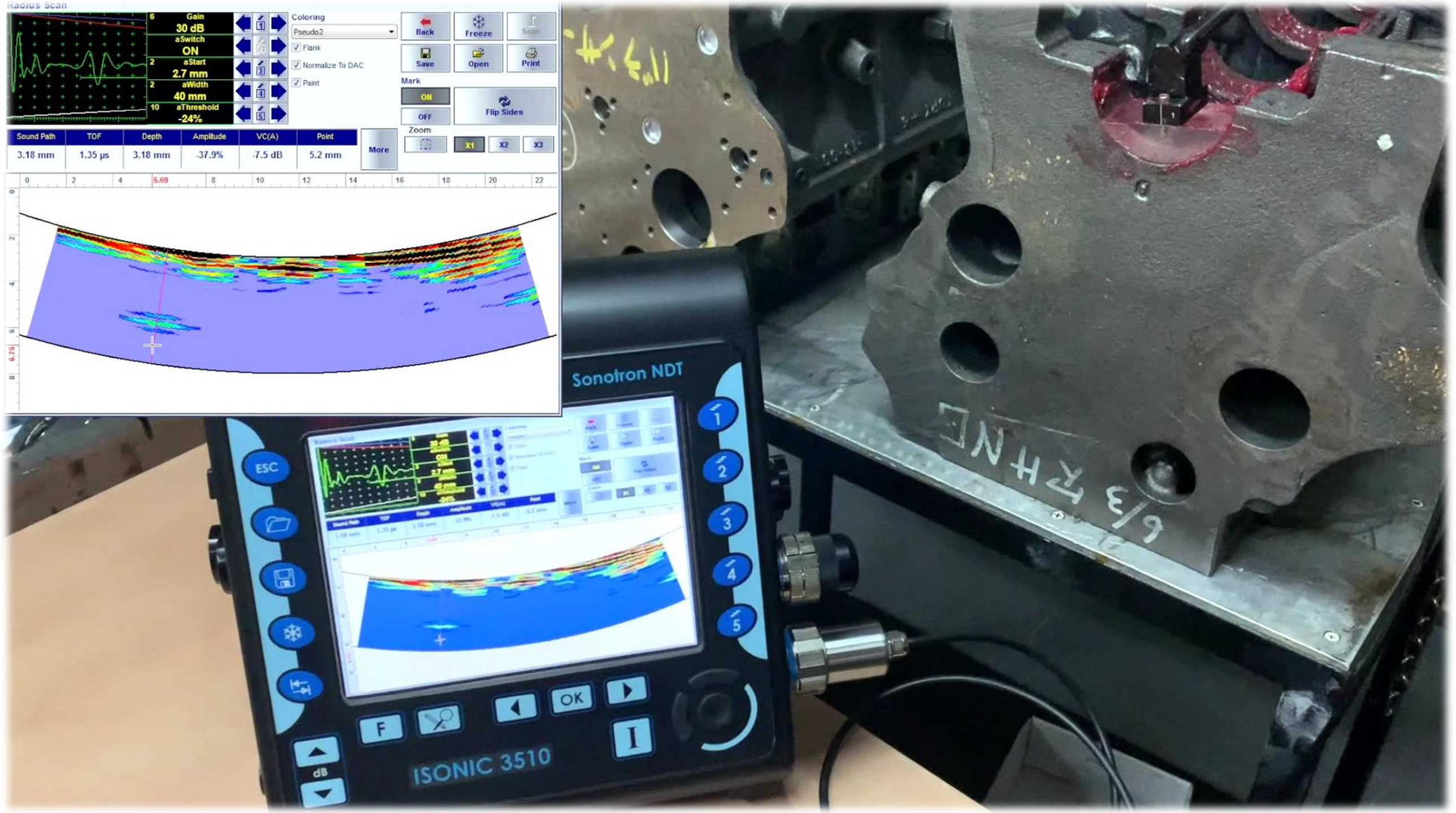

Detection of the subsurface voids in the casted case of automotive engine

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Calibration Block / PDB for the casted parts inspection – heavy automotive industry

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Calibration Block / PDB for the casted parts inspection – heavy automotive industry

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Inspection of heat exchanger tubes from inside – detection of longitudinal cracks using internal crawler carrying wedged linear array probe with CU_IN contoured contact face – detection of the reference reflector on the ID side of the calibration / performance demonstration block

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