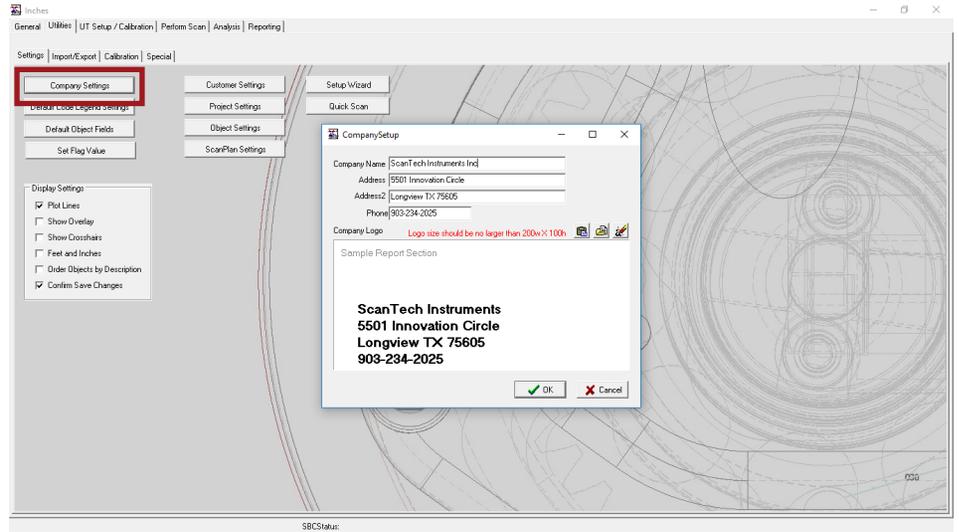
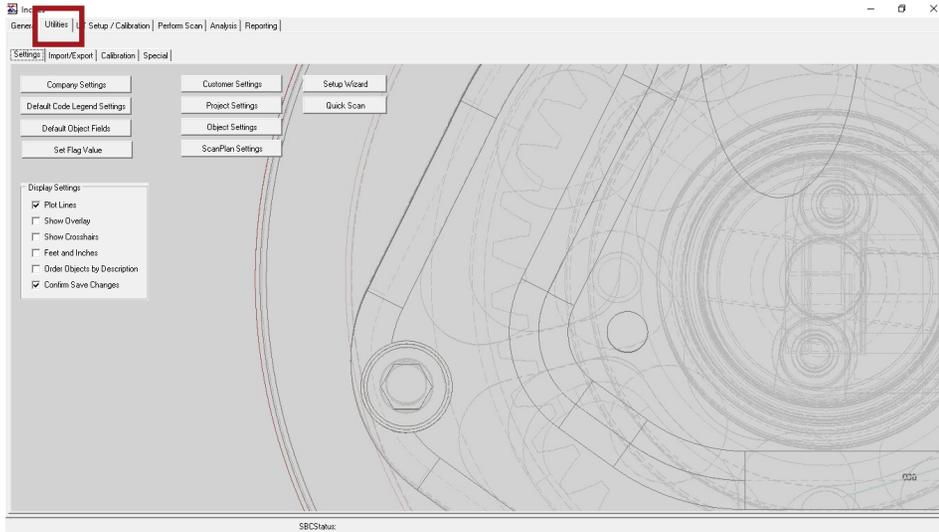




Analyst X™

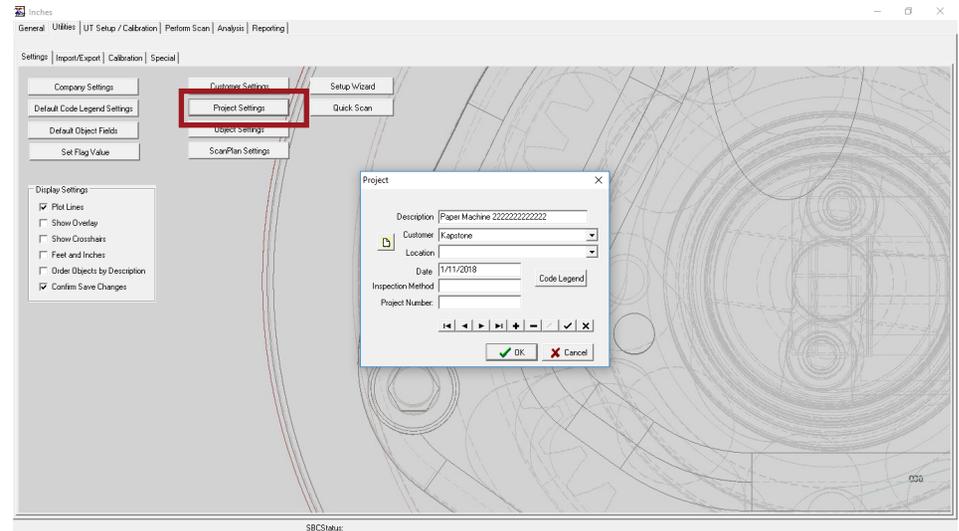
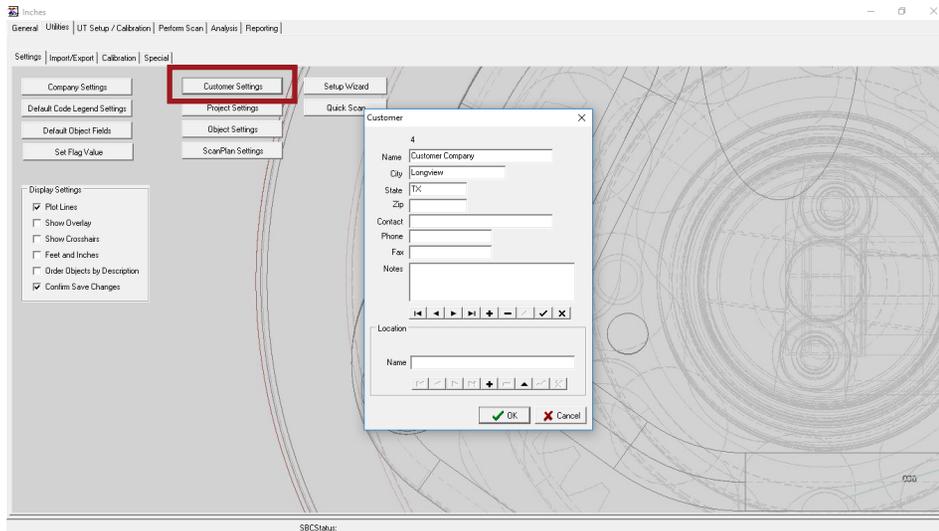
Quick Start Guide for *Analyst X™* Software





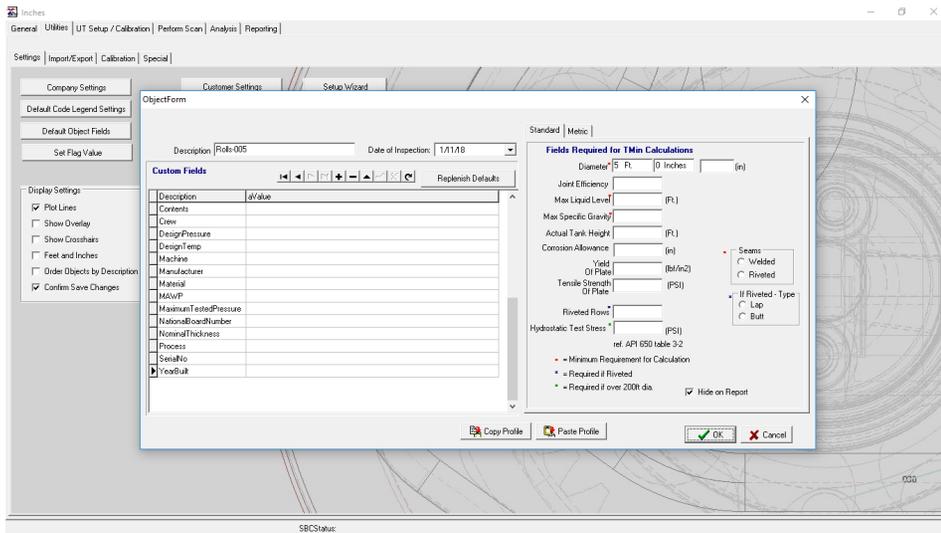
1 Begin on the “Utilities” tab to begin filling in specifications for your scan.

2 Click “Company Settings” and fill in the information about your company. This includes your company name, address, and phone number. Your company logo can be added as well.

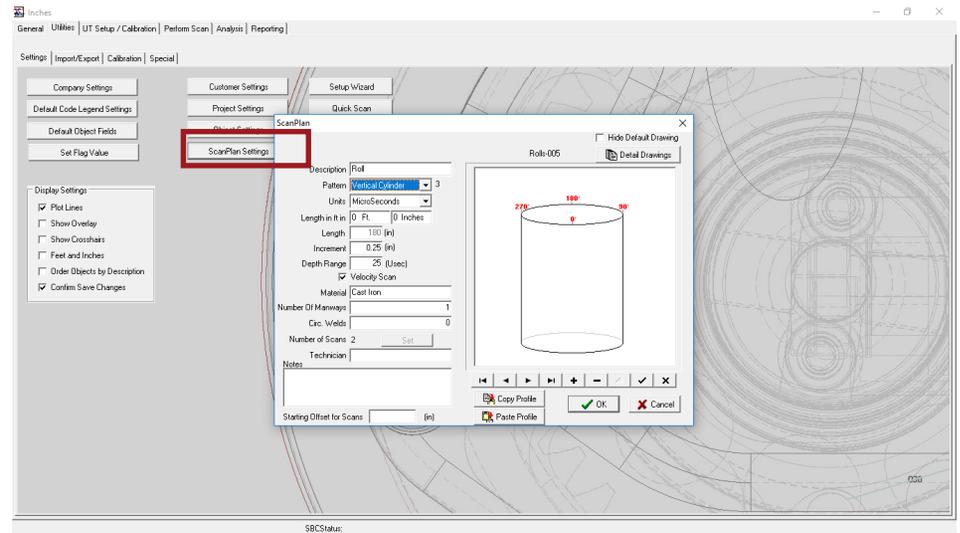


3 Click “Customer Settings” to add information about the customer. This includes the customer name, address, phone number, etc.

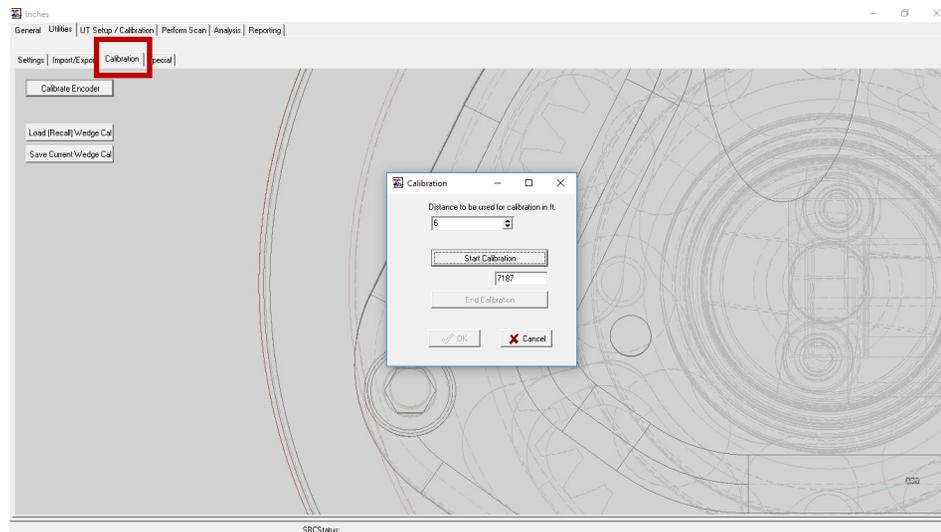
4 Click “Project Settings” to add information about the specific project for the customer. This includes a description, location, date, etc.



5 Click “Object Settings” to add specifications for the tank, vessel, or pipe.



6 Click “ScanPlan Settings” to add specifications for the scan. This includes the type of vessel you are scanning, the scan length, the increment, and depth.



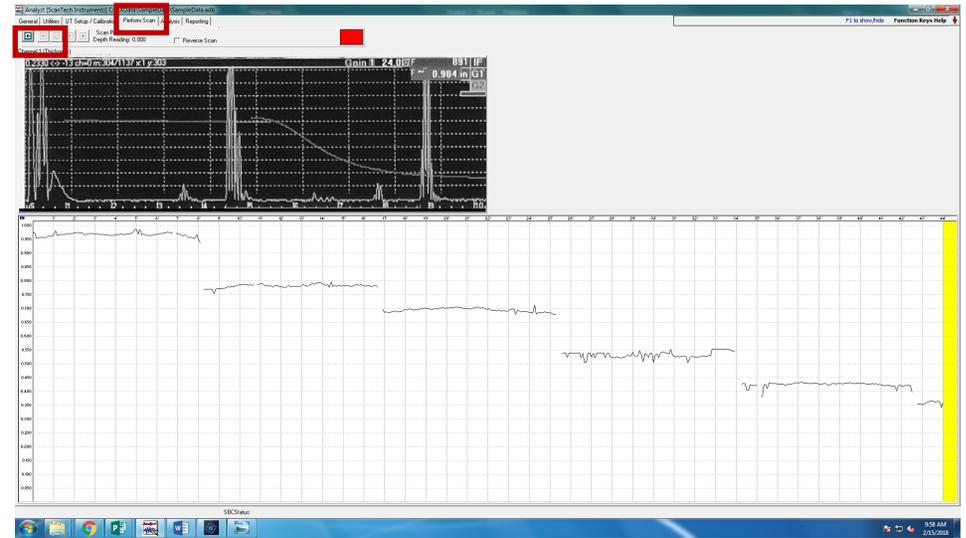
7 Switch to the “Calibration” tab and click “Calibrate Encoder”. Once the “Calibration” pop-up appears, click “Start Calibration”. Spin the encoder until it reaches the specified distance.



8 Move to the “UT Setup/Calibration” tab and click calibrate.



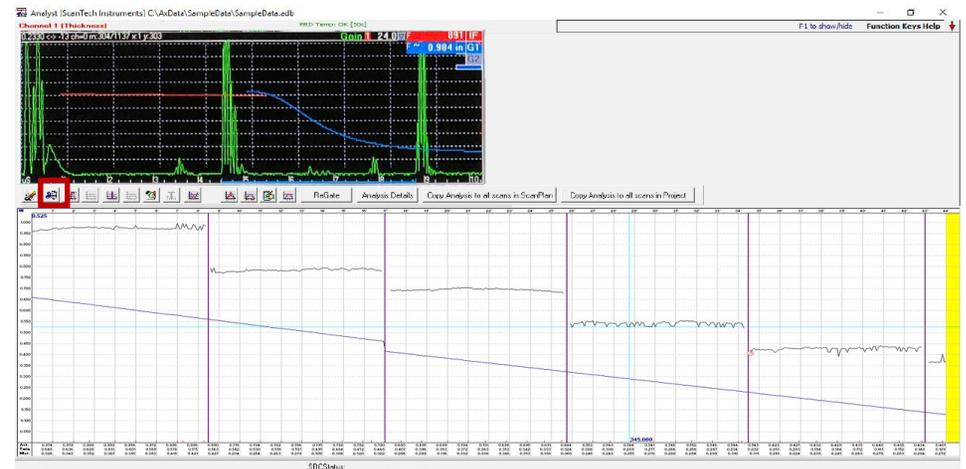
9 To calibrate, slide the UT instrument over the calibration block and enter the thickness of the block in the box labeled “Known Thickness:” and click the green arrow. Repeat this at a different thickness on the calibration block. If you need to remove data points, click the eraser button beneath the green arrow.



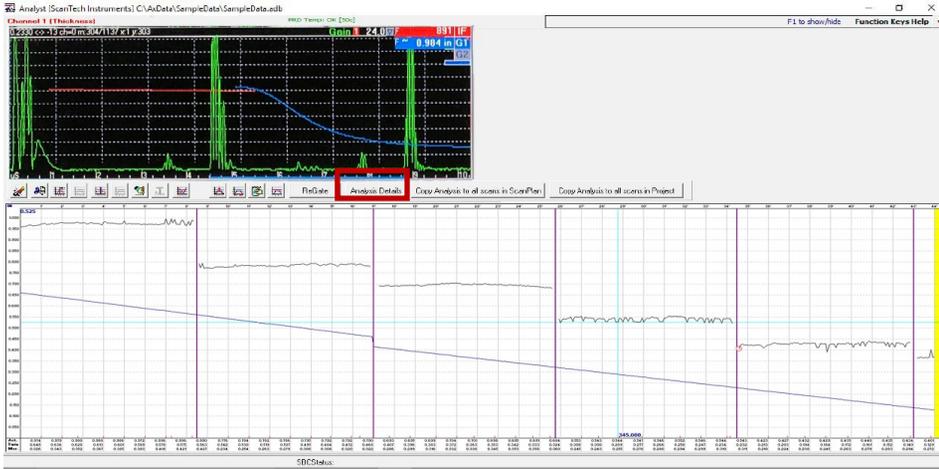
10 Switch to the “perform scan” tab and click the start button.



11 When the scan is complete, the tab should automatically switch to “Analysis”. At this point, you can re-gate the data or perform statistical analysis.



12 Optional: To add a clipping range, click the icon with the scissors. Then select the start and end of the range as well as the upper and lower limits; enter the high and low values and select “ok”. This will remove any data outside of this range.



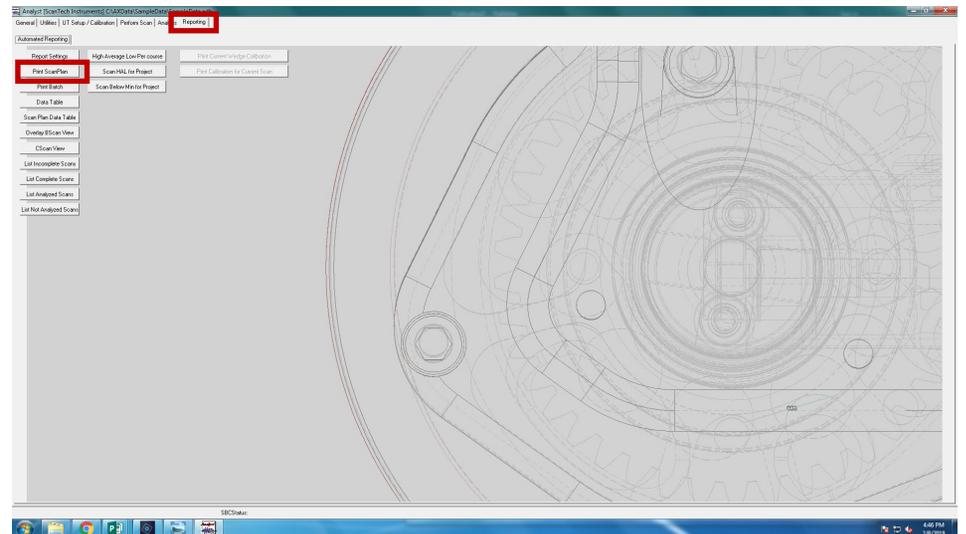
13 Optional: Click “Analysis Details” to print the details for the scan. This includes descriptions of the weld lines, HAL, clipping ranges, and TMin calculations.



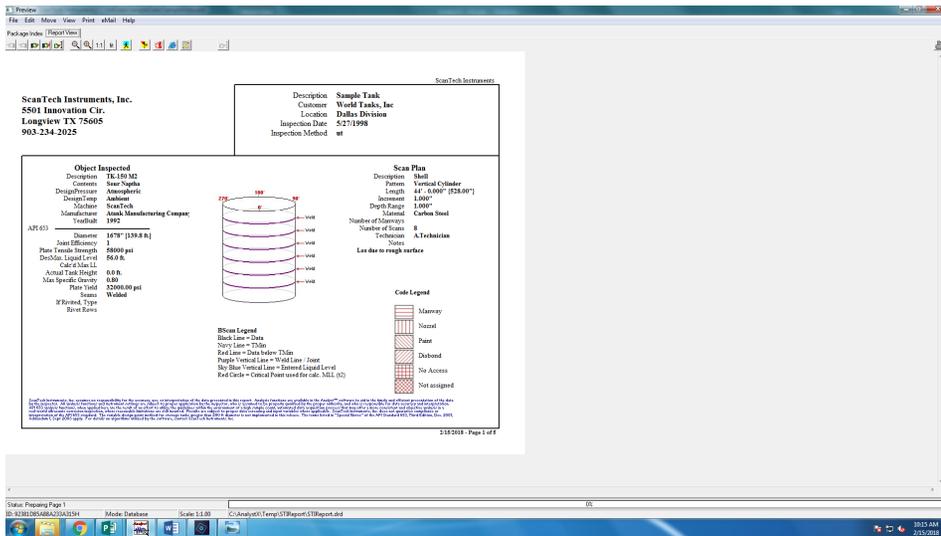
14 Optional: To re-gate data, click “ReGate”. Then, click and drag the gate on the A-scan to the new position.



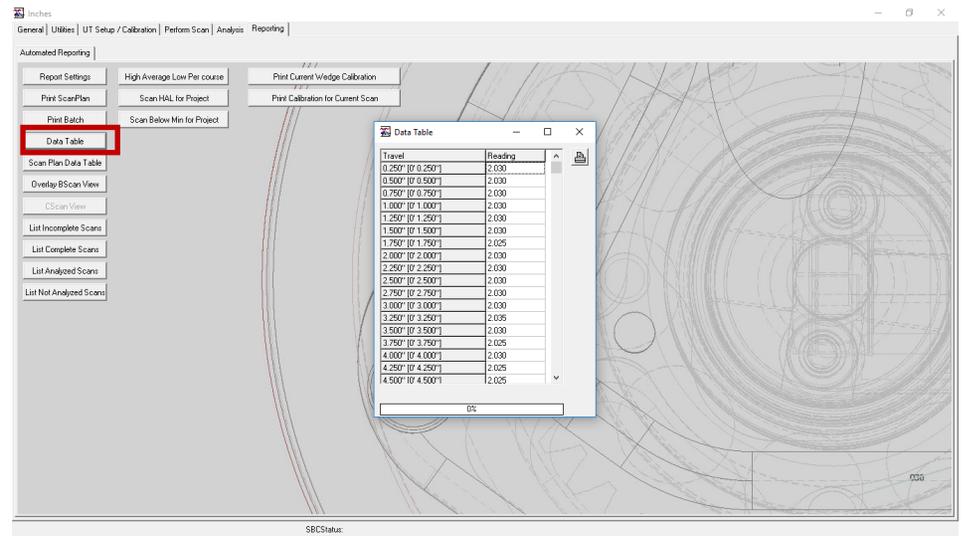
15 Optional: To repeat the analysis performed on a scan, click “Copy Analysis to all scans in ScanPlan” or “Copy Analysis to all scans in Project”.



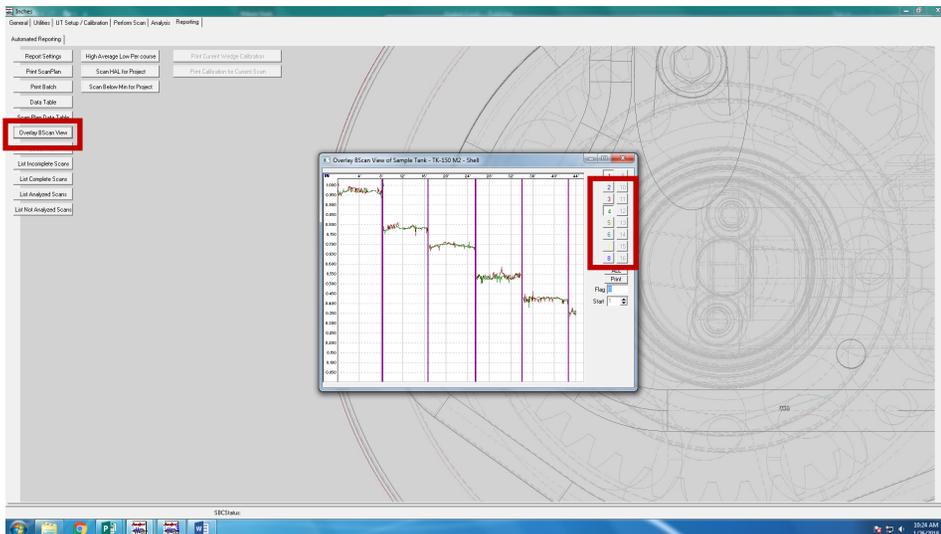
16 Once you have completed the analysis, move to the “Reporting” tab. From this page you can generate data tables, c-scans, overlaid b-scans, and the ScanPlan. To print the report, click “Print ScanPlan”. The report includes all the specifications that were input for the scan and the B-scans of the data .



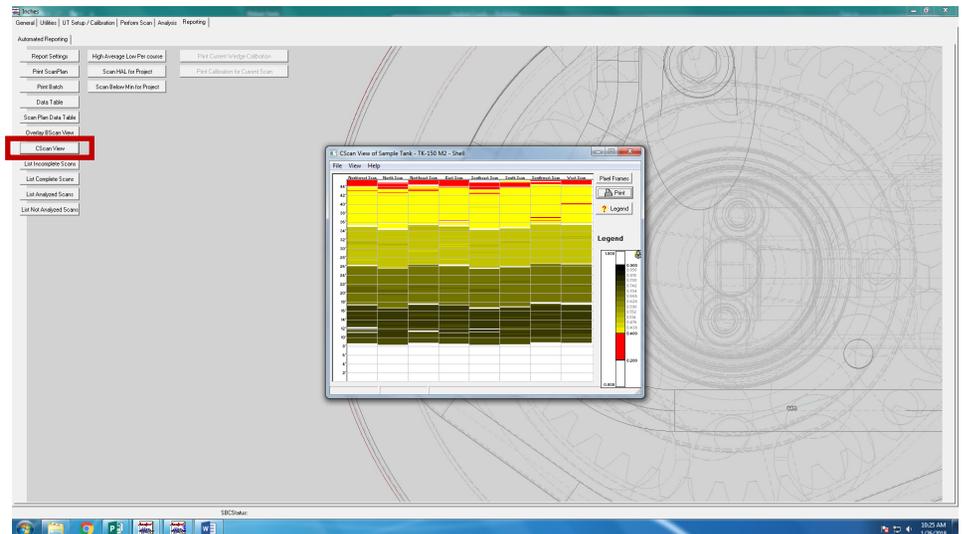
17 Once you've compiled the scan plan, you can save or print the report.



18 Optional: Under the "reporting" tab, you can also generate and print a table of the thickness values by clicking "Data Table".



19 Optional: To compare multiple B-scan, click "Overlay B-scan View" and turn on and off different layers of the scan by clicking the different scans on the right side of the pop-up screen.



20 Optional: To generate a C-scan of the data, click "CScan View". This will automatically stitch together multiple B-Scans in a project to create a C-scan.

Data Acquisition: Function keys

Key	Function
F1	View a listing of what each function key does
F4	Toggle CrossHairs
F5	Multiplex Pair
F6	Analysis
F7	View
F8	Acquisition
F9	Calibrate Encoder

Key	Function
CTRL L	Analysis Legend
CTRL F1	Edit Analysis Functions
CTRL F2	Add Clipping Range
CTRL F3	Toggle High, Average, Low
CTRL F4	Apply Smoothing
CTRL F5	Add Weld Lines
CTRL F6	Velocity Interpolation
CTRL F7	Apply Code Range
CTRL F8	TMin Calc/Graphical Range
CTRL F9	Moving Average
CTRL F10	Time -> Thickness Conv.
CTRL F11	Coating Offset Range
CTRL F12	HAL Resolution
+ -	Keys Adjust Gain on A-Scan (Thickness Pair on D2S)
] [Keys Adjust Gain on A-Scan (Velocity Pair on D2S)