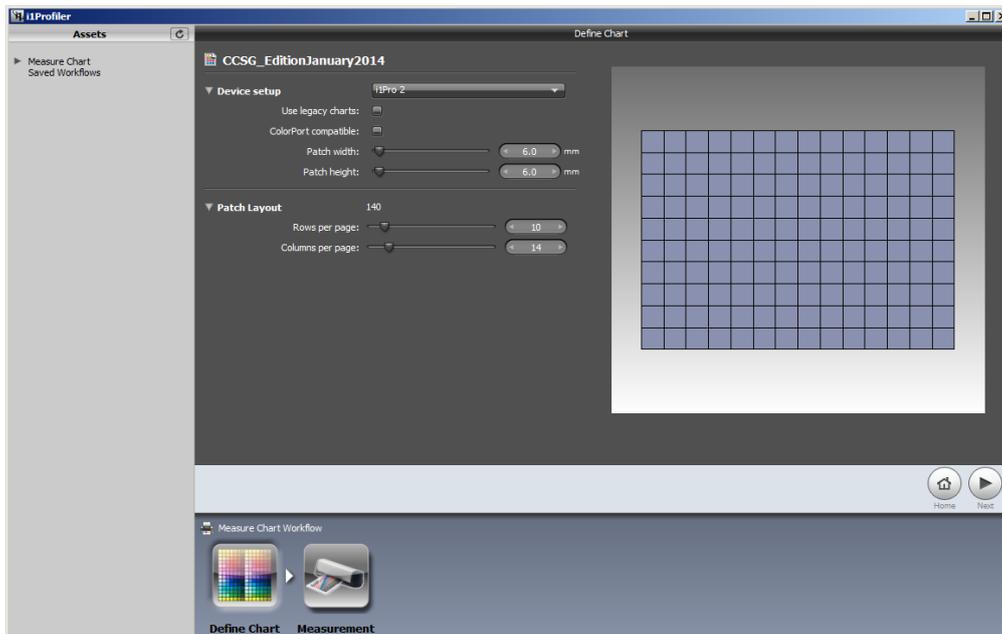


Create Custom Reference Data for ColorChecker SG and 24

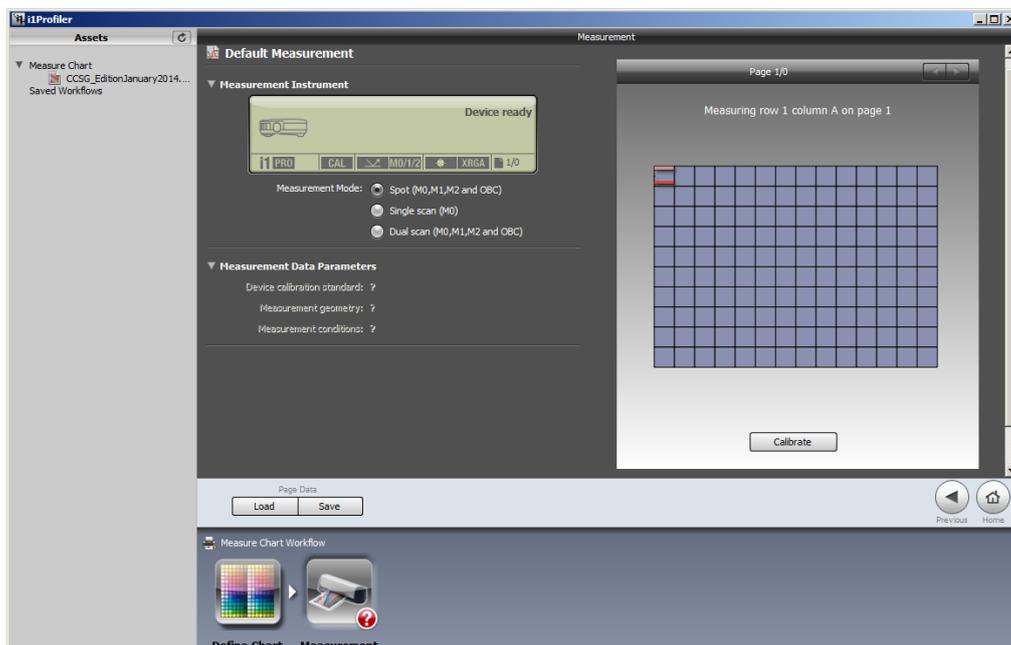
This is a step-by-step instruction on how to create custom Reference Files for a ColorChecker SG or ColorChecker 24 chart, and how to apply them for Scanner Profile creation in i1Profiler (V 1.6).

1. Measure your ColorChecker Chart

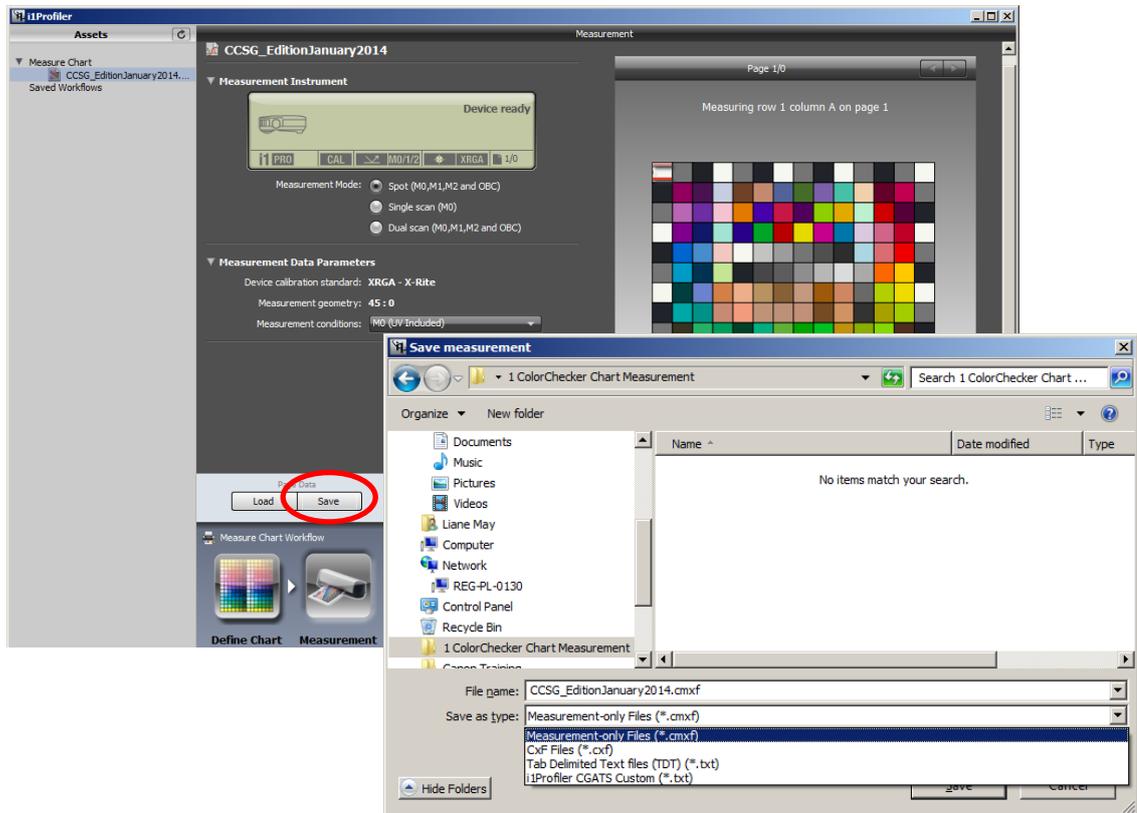
- Connect your measurement device (i1Pro or i1Pro 2)
- Launch i1Profiler, select **Advanced User Mode**
- Select workflow option **Measure Chart**
- In step **Define Chart** select your type of measurement instrument
- Then set number of rows and columns; for CCSG use 10 x 14, for CC 24 use 4 x 6



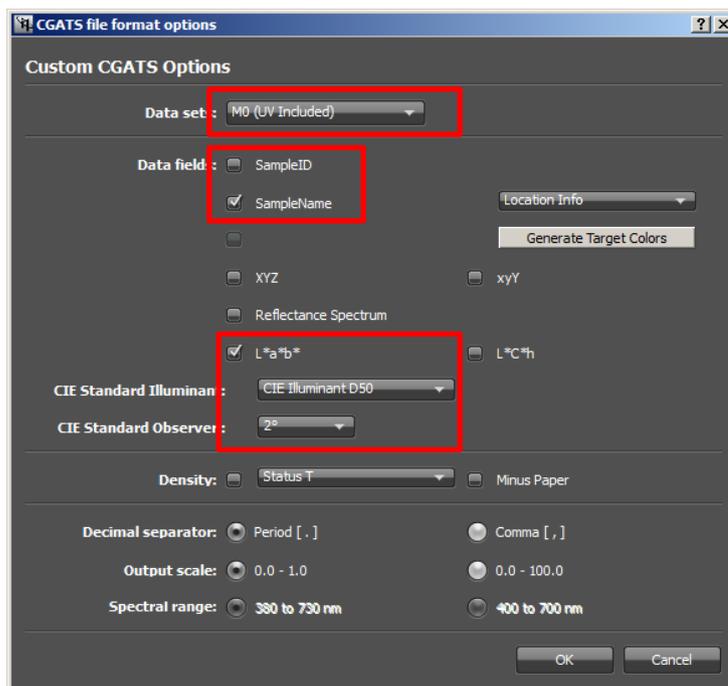
- Go to next step **Measurement** and select measurement mode **Spot (M0, M1, M2 and OBC)**
- Calibrate your instrument; click on **Calibrate** in the measurement preview area
- Measure your chart carefully; use the spot measurement position accessory for your device



- Once finished, save your measurement data first in i1Profiler's **.cmxf** format (contains all three sets of spectral measurement data M0, M1, M2), apply a meaningful file name, e.g. include the production edition date of your chart.



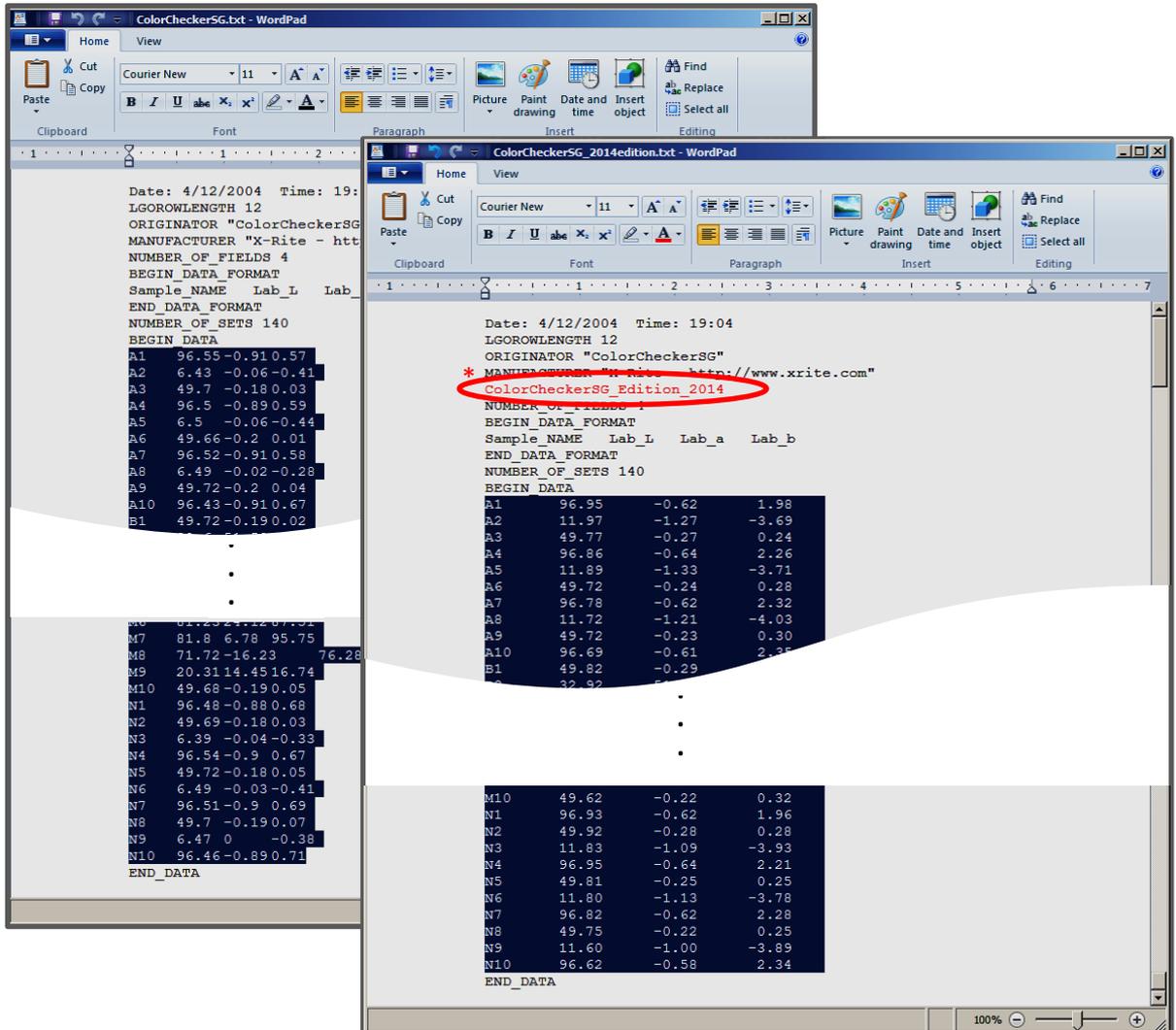
- Now save your measurement data again, select the option **i1Profiler CGATS Custom (.txt)**; in appearing window select following export settings:



Note: Neither the used substrates nor the used pigments for the ColorChecker Charts contain optical brighteners, so you can export and continue with M0 measurement data.

2. Apply your custom Reference File for Scanner Profiling

- On Windows go to **C:\ProgramData\X-Rite\i1Profiler\ScannerReferenceFiles**
- On Mac go to **MacHD>Library>ApplicationSupport>X-Rite>i1Profiler>ScannerReferenceFiles**
- Depending on type of chart go further to the folder **Color Checker SG** or **Color Checker 24**
- Create a backup copy from the contained default Reference File (e.g. rename the copy file as ColorChecker..._Default.txt)
- Open the original Reference File (with unchanged name) in a TextEditor tool
- Now open your custom measurement file in the TextEditor
- Copy the LAB values area of your custom file (as indicated in the screenshot) and replace them in the appropriate area of the default Reference File



**Note: for particular identification you might want to add an entry in the header of the file, which specifies the type of reference file (e.g. add a string like ColorChecker SG Edition 2014). This will not damage the usage of the reference file for profile creation.*

- Save the modified file with it's original name in it's original folder (i1Profiler identifies the Reference File by this name)
- Close and re-launch i1Profiler and create your Scanner Profile with your ColorChecker Chart and your custom Reference File