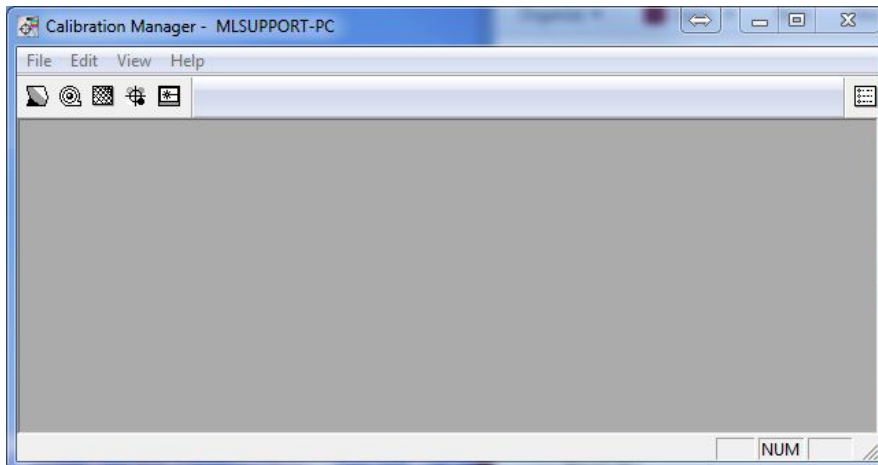
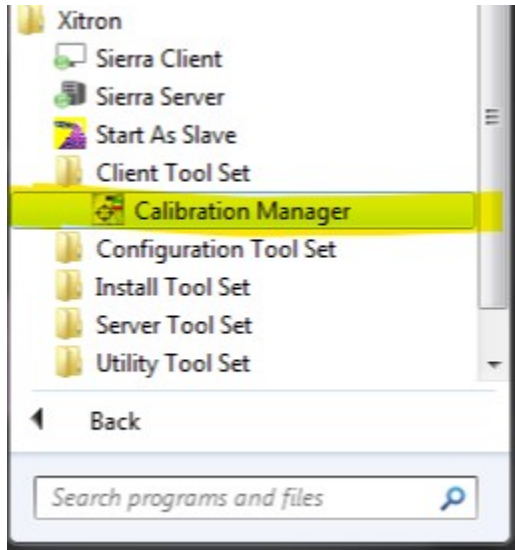


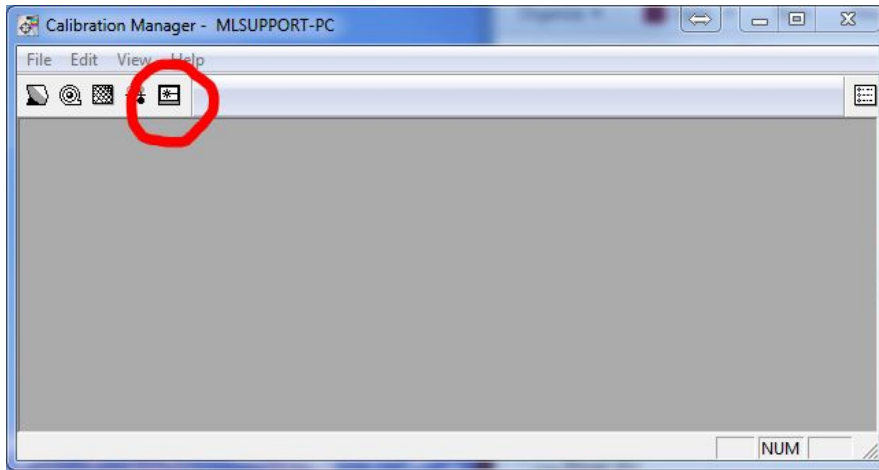
Sierra – Plate Linearization

Plate linearization is the process of using a curve to adjust the tint values of a measured dot area on an imaged plate. A digital target is sent to the RIP and imaged on the plate. The goal is to get the tint area on the imaged plate to +/- 2% of the value of the digital target. This document reviews the tools used in Sierra and the step-by-step process of creating a plate linearization and how to apply that linearization.

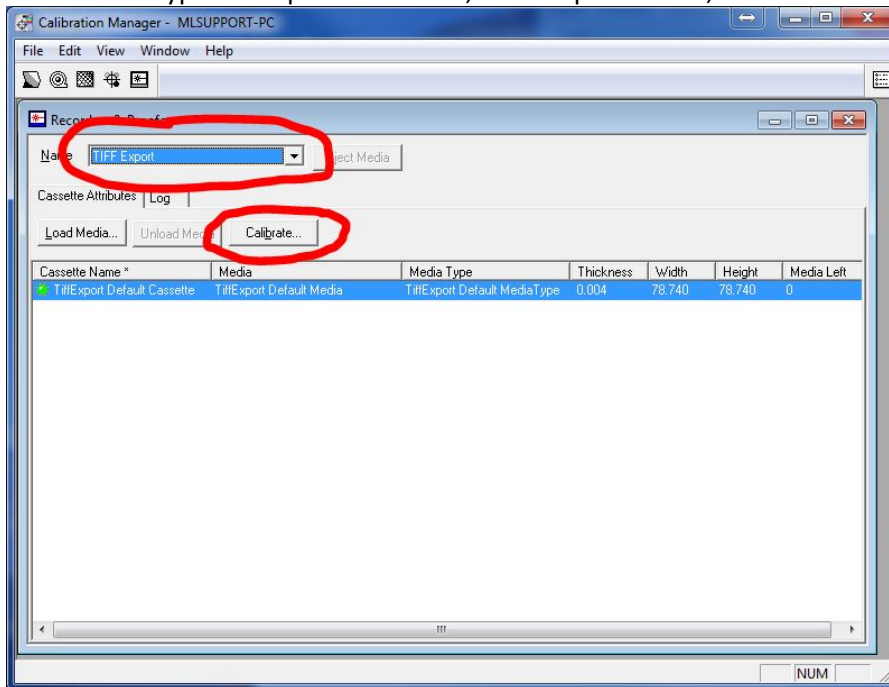
1. Open Calibration Manager.



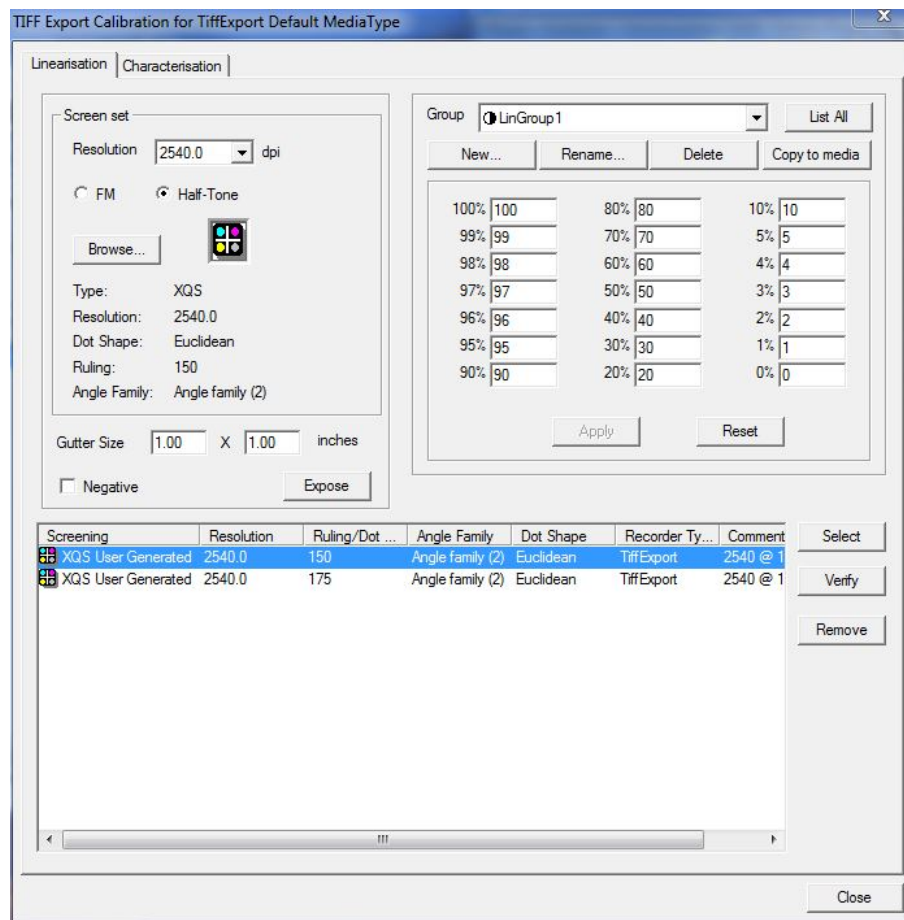
2. Select the Records & Proofs icon.



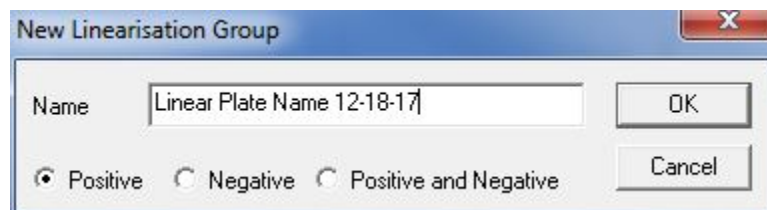
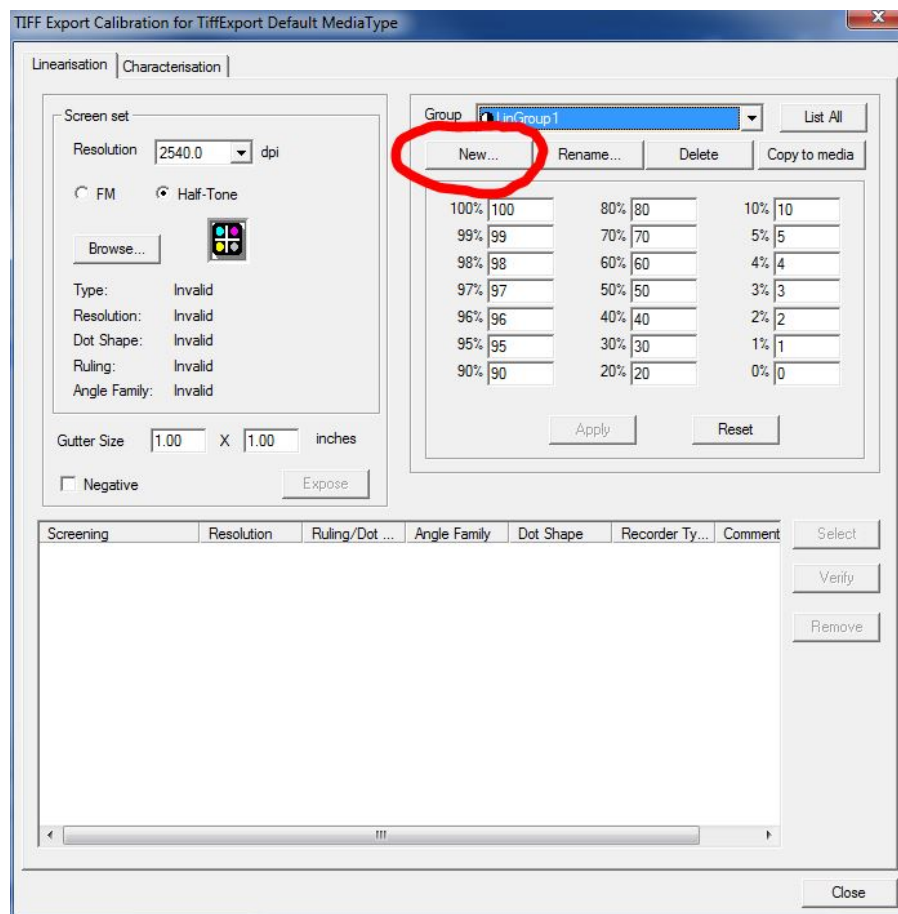
3. Select the type of output in this case, "TIFF Export." Next, click on Calibrate.



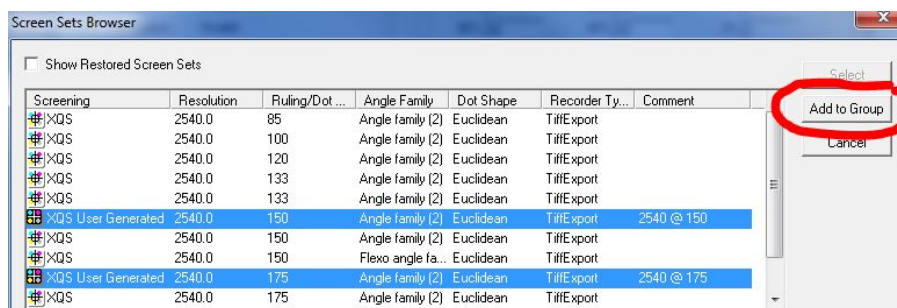
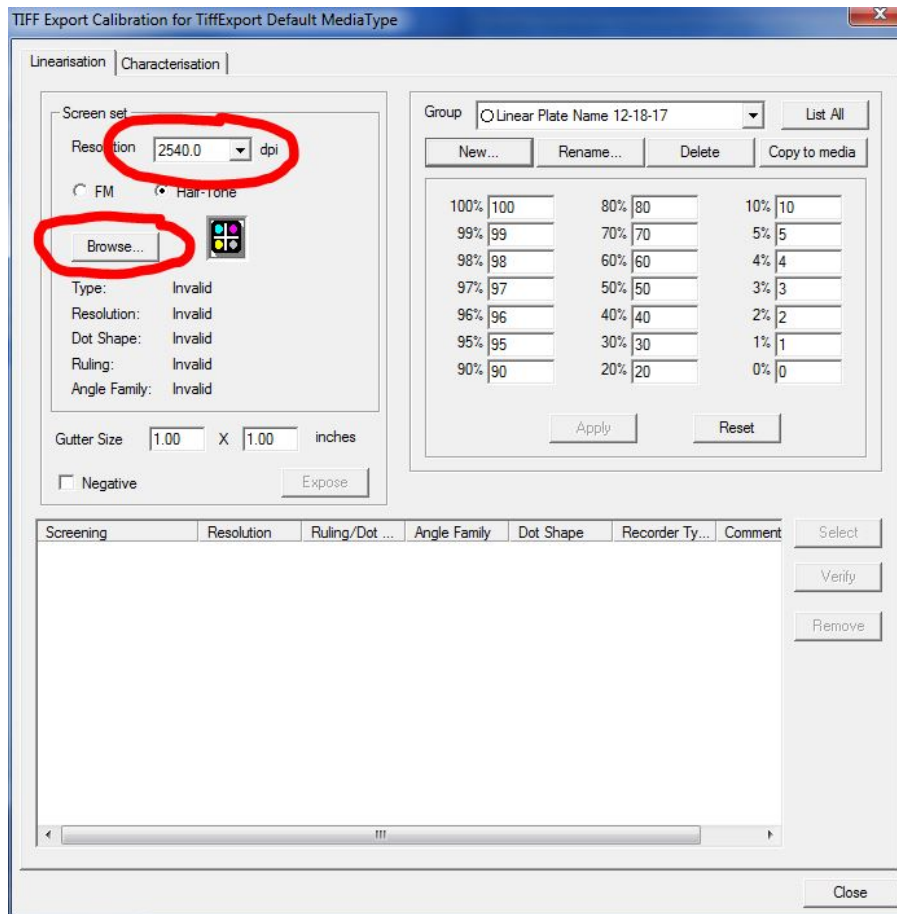
4. From the Calibrate Window, create all of your Linearization's and Characterization curves.



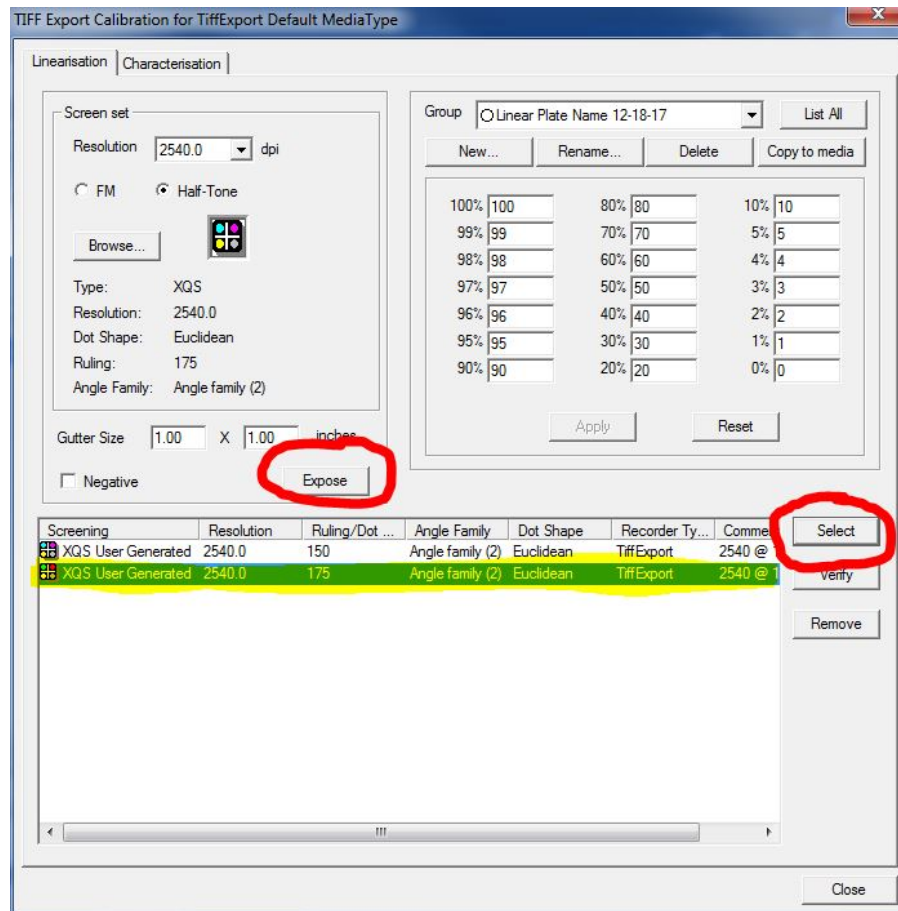
5. Create a new group. We recommend that you incorporate the date in the name for future reference.



6. Select the resolution from the Screen set section. Browse out to select a screen to apply to the linearization. Select the screens to needed and select add to the group.



7. Now select the screen to be used to create the linearization Chart, and then click on Expose.



8. The Chart TIFF will be created as soon as you click 'Expose.' The TIFF will be created in the folder that the TIFF Export is set to. Usually, on the local computer (Sierra PC) path C:\Calibration, take this TIFF file and run it through the CTP's RIP or TIFF Catcher to output a plate with this chart.

9. Using a plate reader, read all of the swatches and write them down on the plate next to the corresponding swatch.

10. Go back to the Calibration Manager. Now input the values into the linearization that you created earlier.

TIFF Export Calibration for TiffExport Default MediaType

Linearisation | Characterisation

Screen set

Resolution: 2540.0 dpi

☐ FM ☒ Half-Tone

Browse...

Type: XQS

Resolution: 2540.0

Dot Shape: Euclidean

Ruling: 175

Angle Family: Angle family (2)

Gutter Size: 1.00 X 1.00 inches

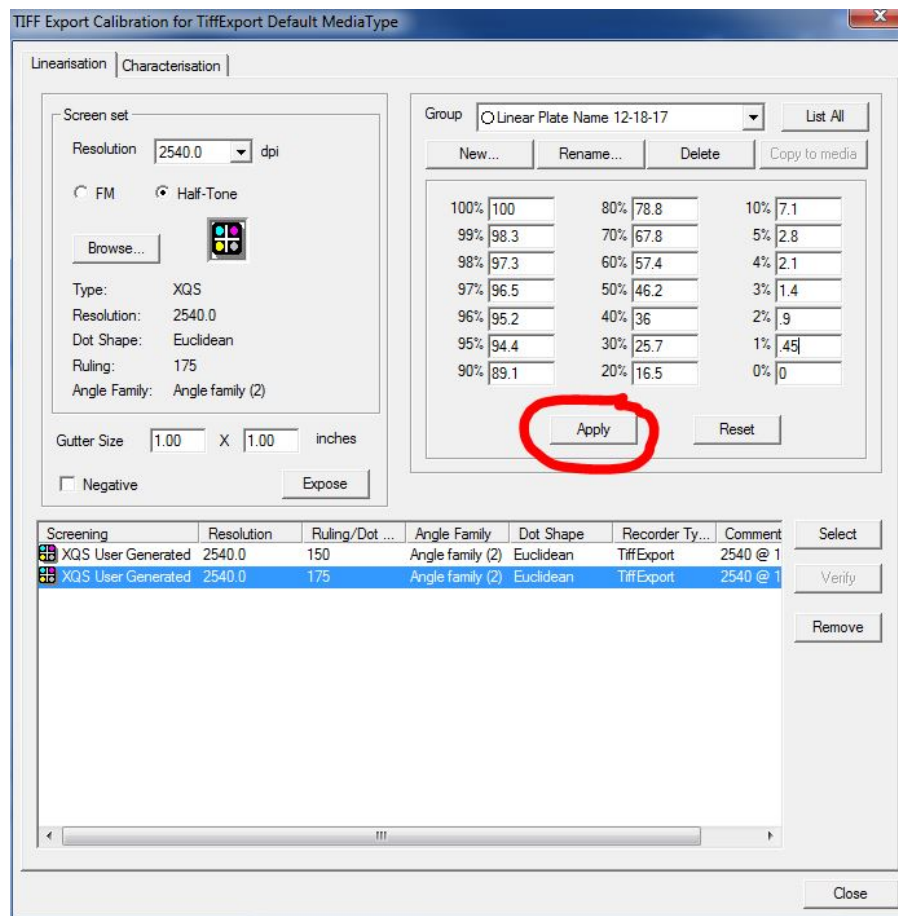
☐ Negative

Group: Linear Plate Name 12-18-17

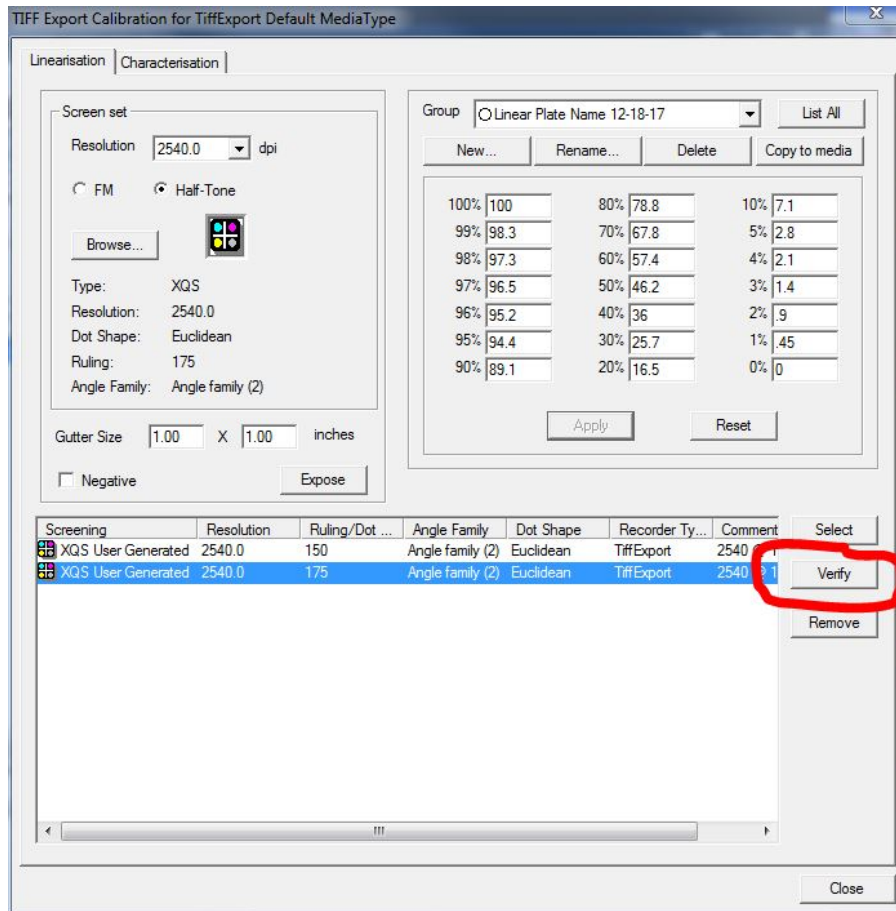
100%	100	80%	80	10%	10
99%	99	70%	70	5%	5
98%	98	60%	60	4%	4
97%	97	50%	50	3%	3
96%	96	40%	40	2%	2
95%	95	30%	30	1%	1
90%	90	20%	20	0%	0

Screening	Resolution	Ruling/Dot ...	Angle Family	Dot Shape	Recorder Ty...	Comment	Select
XQS User Generated	2540.0	150	Angle family (2)	Euclidean	TiffExport	2540 @ 1	<input type="button" value="Select"/>
XQS User Generated	2540.0	175	Angle family (2)	Euclidean	TiffExport	2540 @ 1	<input type="button" value="Verify"/>

11. Once you have input the values, click on 'Apply.'



12. You should 'Verify' the new curve by click on the verify button, and run the resulting TIFF through the CTP, and then scan the new chart with the plate reader. If need be, you can then adjust the Linear values to get them closer.



13. The Linear curve is now complete. To apply the curve, select the screens applied to the Linearization Curve from within the job.

Description: Workflow 1

HB Plates → HB

RIP Proof
ROOM Proof

View Job Settings Presets

Screening

Screening Rules

☒ Override Screen Settings ☐ Fail if not Linearised ☒ Use Selected Screen Set Only

Current Screening Rules

Object Type	Source Document Rulings
Default Rule	All

Add Edit Remove

Screening Options Angle Mapping

☐ Get Ruling from Source Document ☐ Get Angle from Source Document

☐ Use Compound Screens

Available Screen Set **Browse**

Screening Type	Screening Family	Ruling	Dot Shape	Recorder	Resolution	Linearised	Characterisation
AM	Angle family (2)	175.0	Euclidean	Not Applicable	Not Applicable	Not Applicable	Not Applicable
AM	Angle family (2)	175.0 lpi	Euclidean	Not Applicable	2540.0 dpi	Linear Plate Name 12-18-17	Default Press CMYK (linear)

Screen Sets

Type	Resolution	Ruling/Dot Size	Screening Family	Dot Shape	Recorder Type	Linearised	Characterised	Comment
FM	2540.0 dpi	20 µ	FM		TiffExport			
FM	2540.0 dpi	30 µ	FM		TiffExport			
XQS	2540.0 dpi	100.0 lpi	Angle family (2)	Euclidean	TiffExport			
XQS	2540.0 dpi	120.0 lpi	Angle family (2)	Euclidean	TiffExport			
XQS	2540.0 dpi	133.0 lpi	Angle family (2)	Euclidean	TiffExport			
XQS	2540.0 dpi	150.0 lpi	Angle family (2)	Euclidean	TiffExport			
XQS	2540.0 dpi	175.0 lpi	Angle family (2)	Euclidean	TiffExport			
XQS	2540.0 dpi	200.0 lpi	Angle family (2)	Euclidean	TiffExport			
XQS	2540.0 dpi	85.0 lpi	Angle family (2)	Euclidean	TiffExport			
XQS	2540.0 dpi	133.0 lpi	Angle family (2)	Euclidean	TiffExport			
XQS	2540.0 dpi	150.0 lpi	Flexo angle family (4)	Euclidean	TiffExport			
XQS	2540.0 dpi	175.0 lpi	Flexo angle family (4)	Euclidean	TiffExport			
XQS Use...	2540.0 dpi	175.0 lpi	Angle family (2)	Euclidean	TiffExport			2540 @ 175
XQS Use...	2540.0 dpi	150.0 lpi	Angle family (2)	Euclidean	TiffExport			2540 @ 150

Cancel OK