

# Reports

You can use reports to analyze a device response in a device condition, compare a device response to a target, or provide information for troubleshooting potential problems. The following are available reports:

## Print Characterization reports

[Print Characterization reports](#) are useful for documenting the state of a device in a device condition for future reference or for determining if a device is in an optimum state. It provides the following:

- Information about a device that is based on measurement data
- Information on the key metrics of a print condition when no calibration is applied, even if a calibration curve was used to output measurement data
- The effect of a calibration curve on a curve-controlled device

## Comparison reports

[Comparison reports](#) are useful for identifying problem color builds, or for determining the accuracy of a color reproduction. You can also use Comparison reports to analyze new stocks, inks or other variables. It provides the following information:

- Illustrate the differences between a device and a selected target
- Reference data sets from industry specifications including FOGRA, GRACoL, SWOP, IFRA, and PSR Gravure
- ISO 12647-2 curves reference data for TVI comparisons

When comparing a calibration to an ISO TVI curve, you can use a single ISO TVI curve for CMYK, or use one ISO TVI curve for CMY and the next, higher ISO TVI curve for black (K). For example, in the Compare to list, if you select ISO TVI Curve A, ISO TVI Curve A is used for CMY and K. If you select ISO TVI Curve A and B, ISO TVI Curve A is used for CMY and ISO TVI Curve B is used for K.

## Verification reports

[Verification reports](#) analyse the measured or predicted response of an output device condition with curves and/or a DeviceLink that align the response to a target. You can generate a verification report for:

- The PCO of a color setup, if the PCO has a simulation definition, to compare the PCO response to the simulation target
- The SCO of a color setup, to compare the SCO response to the PCO
- The calibrated output of a print calibration curve, to compare the calibrated output response to the calibration target
- G-7-calibrated output or a G-7 PCO, to compare the calibrated printing to a selected **Reference Device Condition**, typically an industry specification such as GRACoL

If a PCO simulation definition has the **G7** check box cleared, the Verification Report definition dialog that is launched for that PCO will display two options if the **Compare to** check box is selected:

- **Target**
- **PCO Predicted Response** (which is unavailable if the report is for a Predicted PCO response)

If the PCO simulation definition has the **G7** check box selected, the Verification Report definition dialog that is launched for that PCO will display various options if the **Compare to** check box is selected (they will display but be unavailable if the **Compare to** check box is cleared):

- **Reference Device Condition**  
If this is selected, the adjacent selection list contains the same device conditions listed in the **Process Inks Reference** list control of Device Measurement comparison reports
- **PCO Predicted Response** (which is unavailable if the report is for a Predicted PCO response)

A comparison report generated for a PCO with **G7** selected, and **Reference Device Condition** selected in the report definition dialog, has the following changes from other comparison reports:

- In section 1.1, **Process Inks Reference** contains the name of the selected reference device condition.
- In table headings and figure annotation, **Target** is replaced by **Reference**.
- Reference device condition information appearing in the report is the same as if the device condition were selected for the Process Inks Reference in a Device Measurement comparison report.
- Section 5 of the report, providing G7 Grayscale Compliance, is unchanged.