HEXAGON

Q-DAS Product Line

Overview of the standard reports provided

Reports

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Document History

Version	Date	Author(s)	Modifications / Remarks
v-0.7	07.11.2023	SJ	Initial Release (based on QDas-1368; new template)

CONTENTS

1 Q-DAS Standard Reports and Templates

This document describes the folder structure and the reports that are included in the standard delivery.

All standard reports are located in the installation path ...\PLANT\DEFAULT\Reports.

As of version 12, a fundamental structural change was made. Up to version 11, there was a separate subfolder for each module. This resulted from the fact that in the first versions of the Q-DAS applications the reports could not be assigned to the modules. Since the ME versions each report can be clearly assigned to the module or several modules, all templates can be stored in the same folder. This enables the simultaneous use of a report across several modules and avoids redundant data.

The division of the reports into DIN A4 and US letter format is also no longer necessary. The new reports have a hybrid format (universal) so that they can be printed simultaneously on DIN A4 and US letter.

Various report templates with different output points are provided for displaying the time stamps.

The output points 6313 and 6314 show the time stamp of the evaluation period for the first and the last entry of the loaded data record. The report templates with output points 6313 and 6314 have the suffix "02" in the report file name.

For the records that were not recorded chronologically, the output points 9110 and 9111 are used. This has the advantage that the evaluation periods are sorted chronologically, and the report uses the actual first and last recorded timestamp. The use of reports with output points 9110 and 9111 requires the activation of the following option

File | *Configurations* | *General settings* | *General settings 2* | *Log additional data during loading (for overview display)*

The report templates with the output items 9110 and 9111 were used to create the exemplary reports.

If you wish to use your own report templates from the previous version, it is recommended that you make a backup of the reports folder, remove the contents from the current reports folder and copy your own contents from all module folders into the reports folder of version 13.

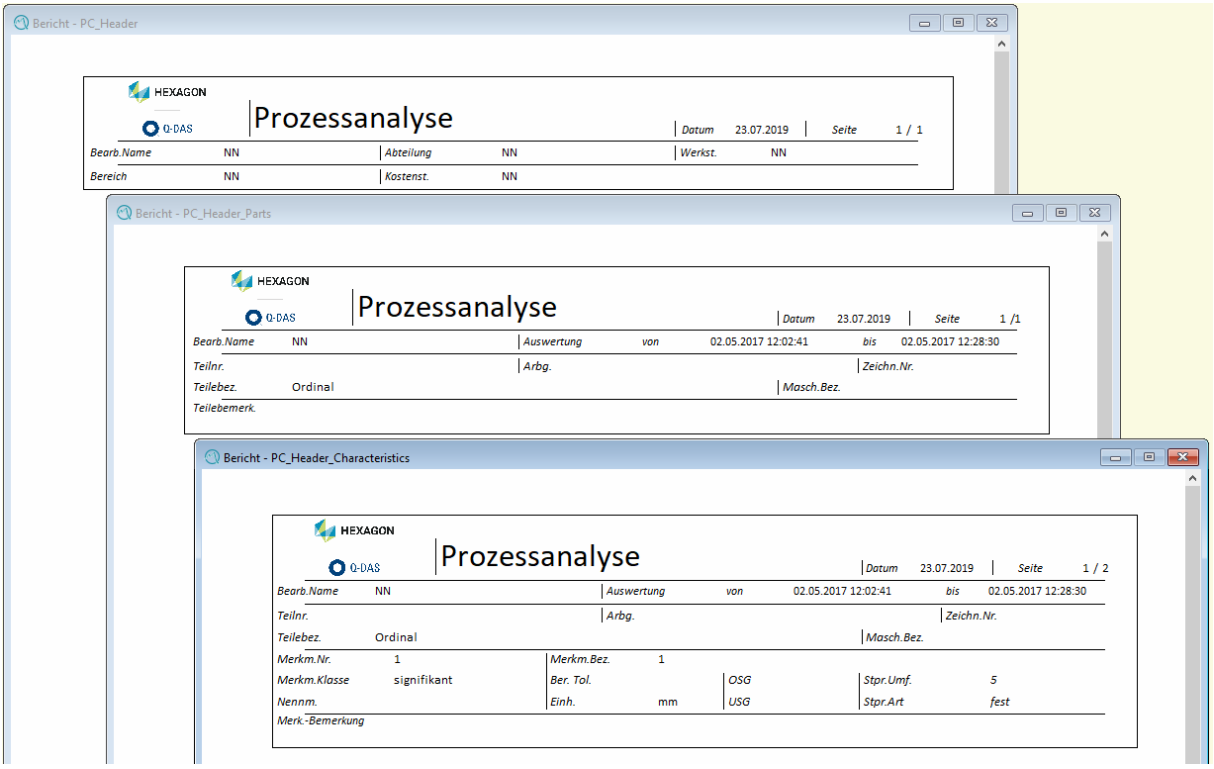
2 Report templates

For customers who have purchased the option of the Q-FD Form Designer, the templates have been made available in a separate subfolder. These are available in universal/hybrid format as well as DIN A4 and US letter for the sampling and process analysis modules.

Three templates each are available in portrait and landscape format with standard headers and footers for:

- Header without part and characteristic data
- Header with parts information
- Header with part and characteristic information

The footer information is the same for all templates.



3 Standard reports

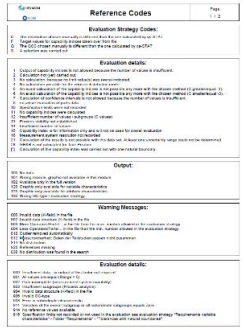
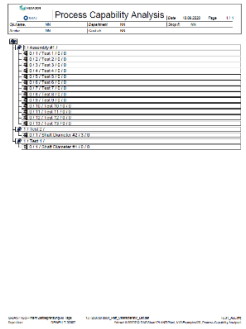
Various reports are included in the delivery as examples. Since the content specified in the header and footer has an effect on the generation of page numbers, the templates were used specifically for these. All exemplary reports have the universal hybrid format.

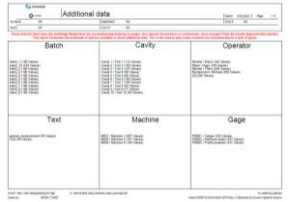
In general, the following breakdown applies:

- Reports up to 0009 - General overview
- Reports between 0010 and 0099 - Viewing the measured values per characteristic
- Reports between 0100 and 0999 - Viewing the parts

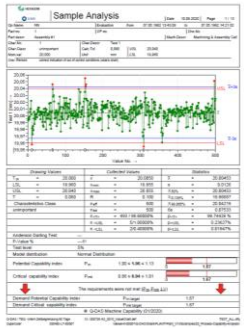
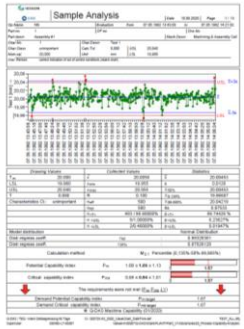
Due to the large number of reports in the standard delivery, only the most common overview reports as well as the reports for the sample analysis and process analysis modules are listed in the following tables.

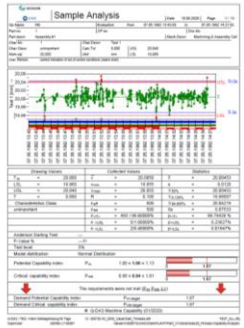
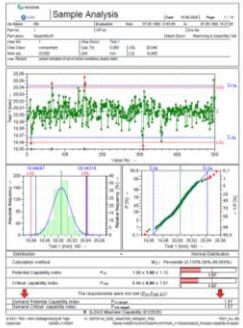
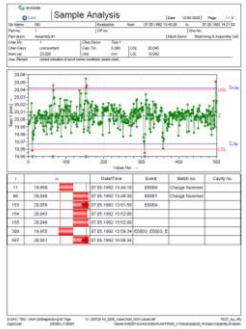
3.1 Overview reports

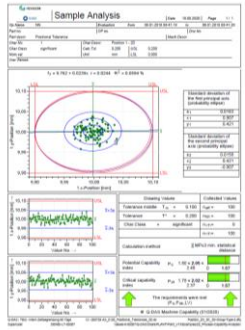
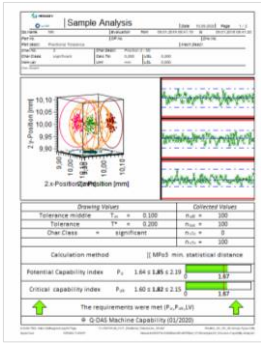
Report name (DEF files)	Report template used (DEF files)	Report has the focus on	Report details	Example files used	Preview
QS_INFO	none		List of hint codes which can be displayed in the Q-DAS applications.	keine	
0001_Part_Characteristic_List	xx_Header	Overview	Listing of parts incl. characteristics This report can be used in the following modules: - Sample analysis - Process analysis - Reliability analysis - Procella - Initial sample inspection report - Measurement system analysis	Test_All.dfq, Test_01.dfq, Test_02.dfq	

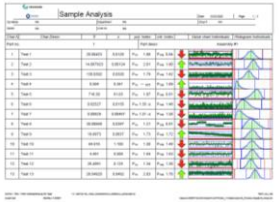
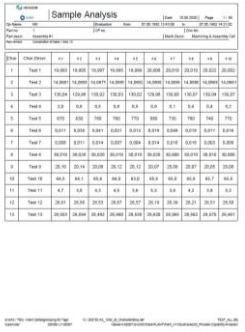
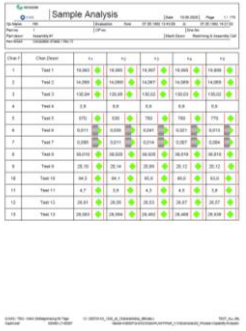
Report name (DEF files)	Report template used (DEF files)	Report has the focus on	Report details	Example files used	Preview
0002_Parts_Additional_Data _Landscape	PC_Header_Landscape	Overview	Listing of the additional data used in the test plan. For correct display, the option "Log additional data during loading (for overview display)" must be activated. Please note that activating this option has a negative effect on the loading performance. This report can be used in the following modules: - Sample analysis - Process analysis - Reliability analysis - Procella - Initial sample inspection report - Measurement system analysis	All_Additional_Data.dfq	

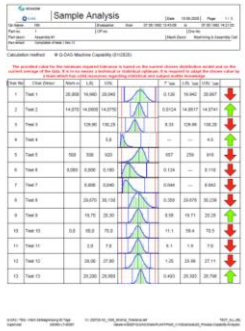
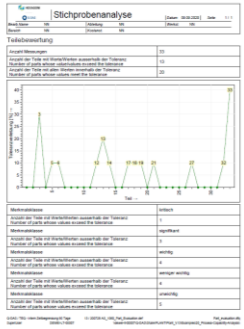
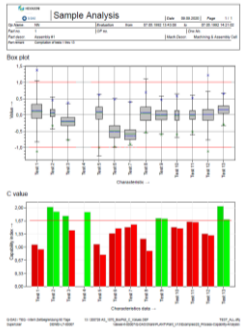
3.2 Report overview in qs-STAT sample analysis

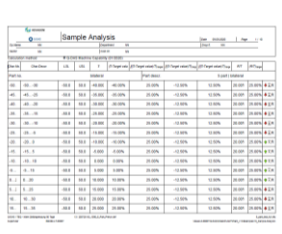
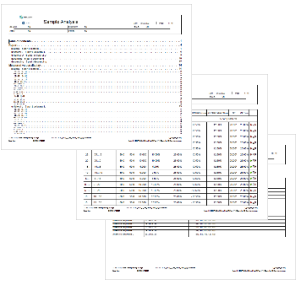
Report name (DEF files)	Report template used (DEF files)	Report has the focus on	Report details	Example files used	Preview
AS_0010_ValueChart	AS_Header_Characteristics	Characteristic-based analysis	Observation and evaluation of the measured values per characteristic Value chart: chronological representation of the measured values Form sheet: representation of various statistical characteristic values	Test_All.dfq	
AS_0020_ValueChart_DateTime	AS_Header_Characteristics	Characteristic-based analysis	as AS_0010 with additional data time/date (absolute display of the measured values)	Test_All.dfq	

Report name (DEF files)	Report template used (DEF files)	Report has the focus on	Report details	Example files used	Preview
AS_0030_ValueChart_Timeaxis	AS_Header_Characteristics	Characteristic-based analysis	as AS_0010 with additionally displayed time axis (relative display of the measured values from V13 the time axis can be configured)	Test_All.dfq	
AS_0040_ValueChart_Histogram _ProbabilityPlot	AS_Header_Characteristics	Characteristic-based analysis	Observation and evaluation of the measured values per characteristic Value chart: chronological representation of the measured values Histogram: classification of the measured values with distribution - frequency distribution Probability plot: representation of the distribution as a straight line Form sheet: representation of various statistical parameters	Test_All.dfq	
AS_0050_ValueChart_NOK-values	AS_Header_Characteristics	Characteristic-based analysis	Consideration and assessment of the characteristics that do not meet the requirements Value chart: chronological representation of the values Individual values table with additional data (e.g. measured value and position in relation to tolerance reference) In the example data set, the individual value table for characteristic 5 is empty, since the characteristic does not meet the requirements, but there are no measured values outside the tolerance.	Test_All.dfq	

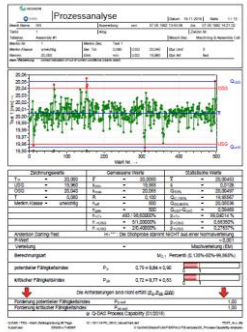
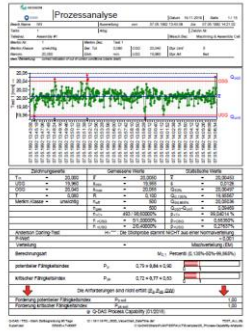
Report name (DEF files)	Report template used (DEF files)	Report has the focus on	Report details	Example files used	Preview
AS_0120_Positional_Tolerances_2D	AS_Header_Characteristics	Characteristic-based analysis	Observation and evaluation of the 2D position tolerances Value chart: Representation of the measured values incl. the axis distribution Form sheet: Representation of various statistical characteristic values	Position_2D_3D_3D-Group-Type-2.dfq	
AS_0121_Positional_Tolerances_3D	AS_Header_Characteristics	Characteristic-based analysis	Observation and evaluation of the 3D position tolerances Value chart: Representation of the measured values incl. the axis distribution Form sheet: Representation of various statistical characteristic values	Position_2D_3D_3D-Group-Type-2.dfq	
AS_1010_Characteristics_Statistics	AS_Header_Parts	Partes-related analysis	Overview of individual characteristics per part with assessment and statistical parameters such as process capability, distribution, etc.	Test_All.dfq, Test_01.dfq, Test_02.dfq	

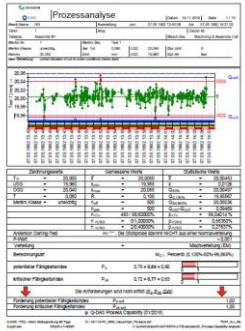
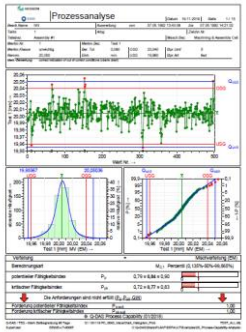
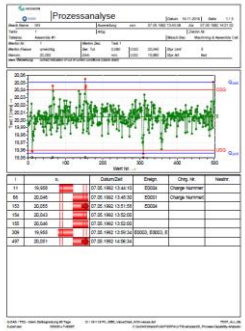
Report name (DEF files)	Report template used (DEF files)	Report has the focus on	Report details	Example files used	Preview
AS_1020_Characteristics_Statistics _Landscape	AS_Header_Landscape	Parts-related analysis	similar to AS_1010. However, in landscape format and other individual characteristic graphics	Test_All.dfq, Test_01.dfq, Test_02.dfq	
AS_1030_all_Characteristics	AS_Header_Parts	Parts-related analysis	Tabular representation of all measured values per characteristic grouped by part. For parts with fewer characteristics, several characteristics are shown per page. PDF from page 89	Test_All.dfq, Test_01.dfq, Test_02.dfq	
AS_1040_all_Characteristics_5Blocks	AS_Header_Parts	Parts-related analysis	Like PC_1040 in blocks of 5. In both reports, if the number of characteristics is smaller, the next characteristic is reproduced in a new table section.	Test_02.dfq	

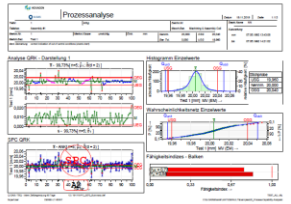
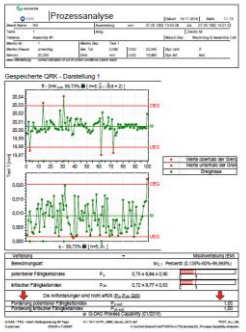
Report name (DEF files)	Report template used (DEF files)	Report has the focus on	Report details	Example files used	Preview
AS_1050_Minimal_Tolerance	AS_Header_Parts	Parts-related analysis	Assessment of the tolerance based on the current data average with indication of the minimum required tolerance. Attention: This report is only exemplary and requires adjustments when used	Test_All.dfq, Test_01.dfq, Test_02.dfq	
AS_1060_Part_Evaluation	AS_Header	Parts-related analysis	Summary of loaded parts Number of measurements within and outside the tolerance with an overview of the characteristic classes. This report only works with the part evaluation activated in the evaluation strategy.	part_evaluation.DFQ nicht in der Auslieferung enthalten	
AS_1070_BoxPlot_C_Values	AS_Header_Parts	Parts-related analysis	Part evaluation. All characteristics per part in one graphic Boxplot: representation of the distribution C-value: representation of the process capability	Test_All.dfq	

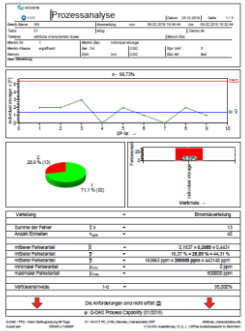
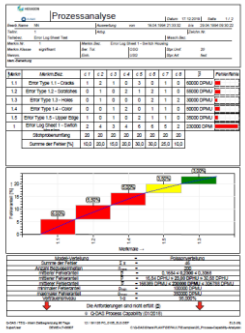
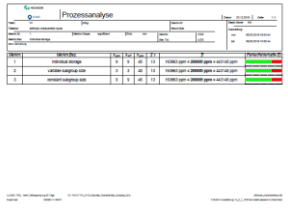
Report name (DEF files)	Report template used (DEF files)	Report has the focus on	Report details	Example files used	Preview
AS_1080_1_Part_Prerun	AS_Header	Parts-related analysis	Report file for machine pre-acceptance and set-up inspections. Report for the first part produced. Data set may only contain one value per characteristic	1_part_test_full.dfq	
AS_1090_5_Part_Prerun	AS_Header	Parts-related analysis	Report file for machine pre-acceptance and set-up inspections. Report for the first sample produced. Data set must contain exactly 5 values per characteristic	5_part_test_full.dfq	
AS_1190_5_Part_Prerun_Table_Of_ Content			Extended "AS_1090_5_Part_Prerun" report template This report template consists of three sections. Section 1: Table of Contents Section 2: Corresponds to the report template "AS_1090_5_Part_Prerun". Section 3: Tabular overview of the measured values	5_part_test_full.dfq	

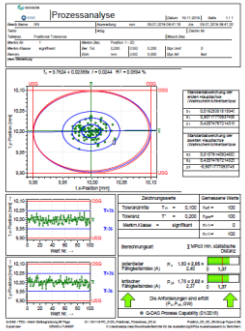
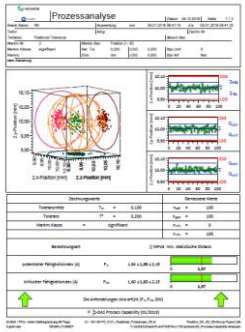
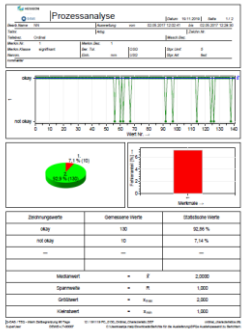
3.3 Report overview in qs-STAT process analysis

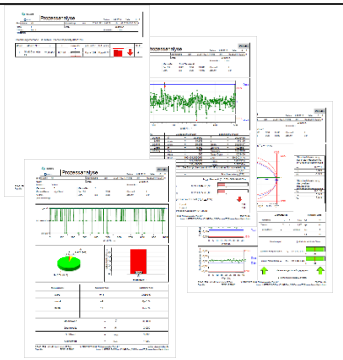
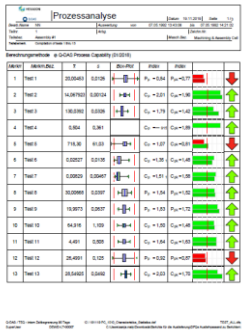
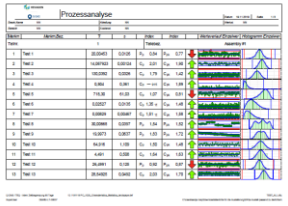
Report name (DEF files)	Report template used (DEF files)	Report has the focus on	Report details	Example files used	Preview
PC_0010_ValueChart	PC_Header_Characteristics	Characteristic-based analysis	Observation and assessment of the measured values per characteristic Value chart: chronological representation of the measured values Form sheet: representation of various statistical characteristic values	Test_All.dfq	
PC_0020_ValueChart_DateTime	PC_Header_Characteristics	Characteristic-based analysis	as PC_0010 with additional data time/date (absolute display of the measured values)	Test_All.dfq	

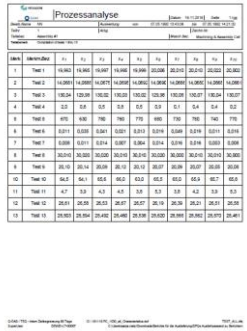
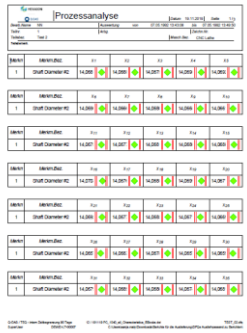
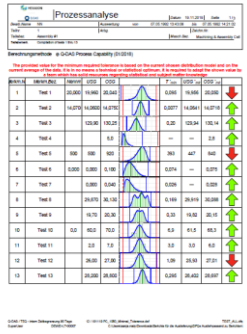
Report name (DEF files)	Report template used (DEF files)	Report has the focus on	Report details	Example files used	Preview
PC_0030_ValueChart_Timeaxis	PC_Header_Characteristics	Characteristic-based analysis	as PC_0010 with additionally displayed time axis (relative display of the measured values from V13 the time axis can be configured)	Test_All.dfq	
PC_0040_ValueChart_Histogram_ProbabilityPlot	PC_Header_Characteristics	Characteristic-based analysis	Observation and evaluation of the measured values per characteristic Value chart: chronological representation of the measured values Histogram: classification of the measured values with distribution - frequency distribution Probability plot: representation of the distribution as a straight line Form sheet: representation of various statistical parameters	Test_All.dfq	
PC_0050_ValueChart_NOK-values	PC_Header_Characteristics	Characteristic-based analysis	Consideration and assessment of the characteristics that do not meet the requirements Value chart: chronological representation of the values Table of individual values with additional data (e.g. measured value and position in relation to tolerance) In the example data set, the individual value table for characteristic 5 is empty, because the characteristic does not meet the requirements, but there are no measured values outside the tolerance.	Test_All.dfq	

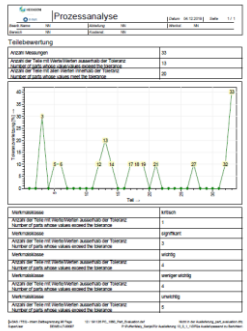
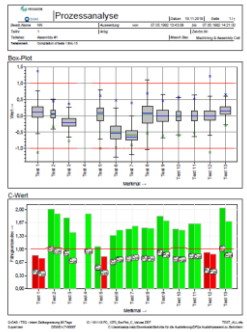
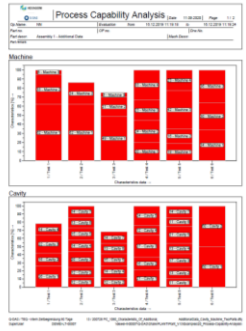
Report name (DEF files)	Report template used (DEF files)	Report has the focus on	Report details	Example files used	Preview
PC_0070_Summary	PC_Header_Characteristics	Characteristic-based analysis	Characteristic overview. Observation and assessment of the measured values per characteristic Analysis QCC SPC QCC Histogram Probability plot Capability indices	Test_All.dfq	
PC_0080_Analysis_QCC	PC_Header_Characteristics	Characteristic-based analysis	Observation and assessment of QCC per characteristic Analysis QCC: Determination of stability per characteristic Form sheet: Presentation of various statistical values	Test_All.dfq	
PC_0090_Saved_QCC	PC_Header_Characteristics	Characteristic-based analysis	Observation and evaluation of the QCC per characteristic Saved QCC: Determination of stability per characteristic with the last saved limits Form sheet: Presentation of various statistic characteristic values	Test_All.dfq	

Report name (DEF files)	Report template used (DEF files)	Report has the focus on	Report details	Example files used	Preview
PC_0100_Discrete_Characteristic	PC_Header_Characteristics	Characteristic-based analysis	Assessment and presentation of attributive characteristics Analysis QCC Pie chart Faulty units Form sheet: Presentation of various statistic characteristics	Attribute_ characteristics.dfq	
PC_0105_ELS	PC_Header_Characteristics	Characteristic-based analysis	Assessment and presentation of the error log sheet Error log sheet Pareto diagram	ELS.dfq	
PC_0110_Discrete_Characteristic _Analysis_QCC	PC_Header_Characteristics	Characteristic-based analysis	Assessment and presentation of attributive characteristics Section 1: Overview of the characteristics in Graphic Characteristics Section 2 (presentation of the individual characteristics): Analysis QCC Form sheet	Attribute_ characteristics.dfq	

Report name (DEF files)	Report template used (DEF files)	Report has the focus on	Report details	Example files used	Preview
PC_0120_Positional_Tolerances_2D	PC_Header_Characteristics	Characteristic-based analysis	Observation and assessment of 2D positional tolerances Value chart: Presentation of the measured values including the axis distribution Form sheet: Presentation of various statistic characteristics	Position_2D_3D_3D-Group-Type-2.dfq	
PC_0121_Positional_Tolerances_3D	PC_Header_Characteristics	Characteristic-based analysis	Observation and assessment of 3D positional tolerances Value chart: Presentation of the measured values including the axis distribution Form sheet: Presentation of various statistic characteristics	Position_2D_3D_3D-Group-Type-2.dfq	
PC_0130_Ordinal_Characteristic	PC_Header_Characteristics	Characteristic-based analysis	Observation and assessment of ordinal characteristics Value chart Pie chart Error unit (bar) Form sheet: Presentation of various statistical characteristics various statistical characteristic values	Ordinal_ characteristics.dfq	

Report name (DEF files)	Report template used (DEF files)	Report has the focus on	Report details	Example files used	Preview
PC_0200_All_Characteristic_Type	The report templates used here are different for each section	Parts and characteristics based analysis	Bei dieser Berichtsvorlage handelt es sich um eine Sammlung verschiedener Berichtsvorlagen als einzelne Sektionen in einer Berichtsvorlage. Je nachdem welche Daten geladen wurden werden entsprechende Sektionen bei der Berichtserzeugung herangezogen. Die Berichtsvorlage besteht aus insgesamt sieben Sektionen: - Characteristics_Statistic - Variable _Characteristic - Discrete_Characteristic - Error_Log_Sheet - Positional_Tolerances_2D - Positional_Tolerances_3 - Ordinal_Characteristic	Test_01.dfq POSITION.dfq Ordinal _characteristics.dfq	
PC_1010_Characteristics_Statistics	PC_Header_Parts	Parts-related analysis	Overview of individual characteristics per part with assessment and statistical parameters such as process capability, distribution, etc.	Test_All.dfq, Test_01.dfq, Test_02.dfq	
PC_1020_Characteristics_Statistics _landscape	PC_Header	Parts-related analysis	Similar to PC_1010. However, in landscape format and other individual characteristics graphics	Test_All.dfq, Test_01.dfq, Test_02.dfq	

Report name (DEF files)	Report template used (DEF files)	Report has the focus on	Report details	Example files used	Preview
PC_1030_all_Characteristics	PC_Header_Parts	Parts-related analysis	Tabular display of all measured values per characteristic grouped by part. For parts with fewer characteristics, several characteristics are displayed per page. PDF from page 89	Test_All.dfq, Test_01.dfq, Test_02.dfq	
PC_1040_all_Characteristics_5Blocks	PC_Header_Parts	Parts-related analysis	Like PC_1030 in blocks of 5. In both reports, if the number of characteristics is smaller, the next characteristic is reproduced in a new table section.	Test_02.dfq	
PC_1050_Minimal_Tolerance	PC_Header_Parts	Parts-related analysis	Assessment of the tolerance based on the current data average with indication of the minimum tolerance required. Attention: This report is only exemplary and requires adjustments when used.	Test_All.dfq, Test_01.dfq, Test_02.dfq	

Report name (DEF files)	Report template used (DEF files)	Report has the focus on	Report details	Example files used	Preview
PC_1060_Part_Evaluation	PC_Header	Parts-related analysis	Summary of loaded parts Number of measurements within and outside tolerance with an overview of the charact. classes. This report only works with part evaluation activated in the evaluation strategy..	part_evaluation.DFQ nicht in der Auslieferung enthalten	
PC_1070_BoxPlot_C_Values	PC_Header_Parts	Parts-related analysis	Part evaluation. All characteristics per part in one graphic Boxplot: Representation of the distribution C-value: representation of the process capability	Test_All.dfq	
PC_1080_Characteristic_Of_ Additional_Data	PC_Header_Parts	Parts-related analysis	Part evaluation: All characteristics of a part per graphic, broken down by additional data. For correct display, the option "Protocol additional data on loading (for overview display)" must be activated. Please note that activating this option has a negative effect on loading performance. Variation of additional data by machine Variation of additional data by cavity	AdditionalData_Cavity_ Machine_TwoParts.dfq	

Report name (DEF files)	Report template used (DEF files)	Report has the focus on	Report details	Example files used	Preview
PC_ISOTR11462_3_2020_E_ Analysis_QCC			This report is part of the FAQ series "Numerical validation according to ISO/TR 11462-3: 2020(E)". Detailed information can be found in the latest help.		
PC_ISOTR11462_3_2020_E_Part_1			This report is part of the FAQ series "Numerical validation according to ISO/TR 11462-3: 2020(E). Detailed information can be found in the latest help.		