Important Customer Information

SCORE 6 software update 6.2.1.0

Product name	Product No.
SCORE 6	SCORE 6.2.1.0

Date: 30 June 2023

Dear Valued Customer,

We are excited to announce that a new SCORE 6.2 version, **SCORE 6.2.1.0**, has been released and is available for download from our website. Please note that SCORE 6.2.1.0 is a patch for SCORE 6.2.0.1.

The attached Appendix: 2086-MKT Appendix 1: Rev01_SCORE 6.2.1.0 Supplementary information contains an overview of the main changes in **SCORE 6.2.1.0** compared to SCORE 6.1.3.1 and SCORE 6.2.0.1 and other important information regarding installation and migration options.

Description

The installer for **SCORE 6.2.1.0** and its release notes can be downloaded from https://labproducts.caredx.com/software/score/score-6/downloads/

Actions required

The typing kit files differ between SCORE 6.1.3.1 and 6.2.x.x. We will discontinue supporting SCORE 6.1.3.1 after lot E067; therefore, we recommend users to install SCORE 6.2.1.0 as soon as possible. Please see the attached document for further information about recommended upgrade procedures.

Kit file compatibility:

- Kit files compatible with SCORE 6.1.3.1 will be provided up until lot **E067**.
- Kit files compatible with SCORE 6.2.x.x are available from lot **E061**.
- QTYPE lots **E061-E067** will be available in kit files for SCORE 6.1.3.1 and SCORE 6.2.x.x.
- The kit file for lot **E068** and onwards may only be used with SCORE 6.2.x.x

Please don't hesitate to contact your local application specialist if you have any questions with regards to this message or the updates.

Should you have any further queries, do not hesitate to contact me.

Kind Regards,

Steve Chang

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Implementation Manager

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Olerup QTYPE 11 and SCORE 6 are available as CE/IVD and research use only products. For local regulatory status, please contact CareDx.

SCORE 6.2.1.0
Supplementary information

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Leslie M, Kidney Transplant Recipient

This material has been created for a global audience. Refer to all disclaimers on clinical claims and regulatory status in your region. Olerup QTYPE 11 and the SCORE 6 are available as CE/IVD and research use only products. For local regulatory status, please contact CareDx. Olerup QTYPE 11 is referred to as QTYPE 11

SCORE 6.2.1.0 Software overview

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Software overview - 1

- New Launch icon:

  - SCORE 6.2.1.0 (CE/RUO) is a patch for SCORE 6.2.0.1 (which was released as CE only)
  - The same installation procedure as previous SCORE 6 versions
  - Users can have SCORE 6.1.3, SCORE 6.2.0.1 (CE only) and SCORE 6.2.1.0 on the same PC

- Updated support for Windows and SQL server versions

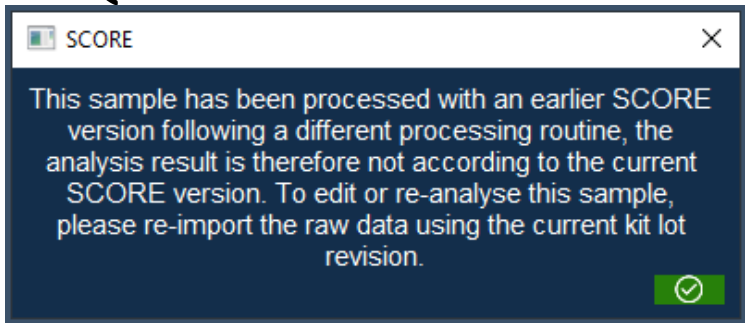
Software overview - 2

Installation of SCORE 6.2.1.0 and migration options from previous versions

- Option 1: Create a new SQL database for SCORE 6.2.1.0
  (Possible to run different version in parallel- strongly recommended)

- Option 2: Upgrade current database to SCORE 6.2.1.0 (no parallel use)

- NOTE: Users can ***re-analyse*** old samples in SCORE 6.2.x.x only by **Reimporting** raw data **(E061 above only)** as new samples in SCORE 6.2.x.x. QTYPE lots E060 and older won't be able to analyse in SCORE 6.2.x.x



Option 1: Create a new SQL database for SCORE 6.2.1.0

SCORE 6.1.3 or 6.2.0.1 and SCORE 6.2.1.0 can be installed and run in parallel on the same PC if the following procedure is followed:

1. Create a **new SQL instance with a different name** to be used by SCORE 6.2.1.0 in order to use several versions in parallel. Do NOT upgrade your current database as it would become inaccessible by any previous version.
2. Install SCORE 6.2.1.0
3. Upon start of SCORE 6.2.1.0, follow the standard procedure to initialize the new instance and have SCORE create the SCORE database structure on it. The procedure is described in the Installation Instructions document.

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Option 2: Upgrade current database to SCORE 6.2.1.0

1. Create a backup copy of your current database before performing the update using SQL Management Studio software from Microsoft.
2. Install SCORE 6.2.1.0. If prompted, select to upgrade the current software and database. (Note: This process is irreversible, you will not be able to use the database with a previous SCORE version anymore. Old samples can be searched and viewed but not re-analyzed or modified in SCORE 6.2.1.0. Tests from lot E060 and earlier cannot be imported after the update.)

- Consult the installation manual or your local CareDx representative for further information

Software overview - 3

Please upgrade to SCORE 6.2.1.0 ASAP

- The typing kit files differ between SCORE 6.1.3.1 and 6.2.x.x. We will not generate new kit files for SCORE 6.1.3.1 after lot **E067**

- Typing Kit file compatibility:
  - Typing kit files compatible with SCORE 6.1.3.1 will be provided from lot **E061 to lot E067**.
  - Typing kit files compatible with SCORE 6.2.x.x will be provided **from lot E061 moving forward**.

Software overview - 4

Updated Windows and SQL server support

- Supported Windows versions
  - Windows 10 Pro (64 bit)
  - **Windows 10 Enterprise (64 bit)**
  - **Windows 11 Pro (64 bit)**

- Supported SQL servers
  - Microsoft® SQL Server® 2012
  - Microsoft® SQL Server® 2014
  - Microsoft® SQL Server® 2016
  - Microsoft® SQL Server® 2017
  - **Microsoft® SQL Server® 2019**

SCORE 6.2.1.0 Main new features:

1. New raw data processing algorithm (QCL) (SCORE 6.2.x.x)
2. Exclusion of problematic wells
3. Processing high instrument reads (reason for patch)
4. Compatible with QuantStudio 6 Pro and QuantStudio 7 Pro
5. Built-in CC file check (SCORE 6.2)
6. Separated Common and Well documented allele combinations (SCORE 6.2)
7. Other fixes and improvements

1. New raw data processing algorithm (QCL) (SCORE 6.2.x.x)

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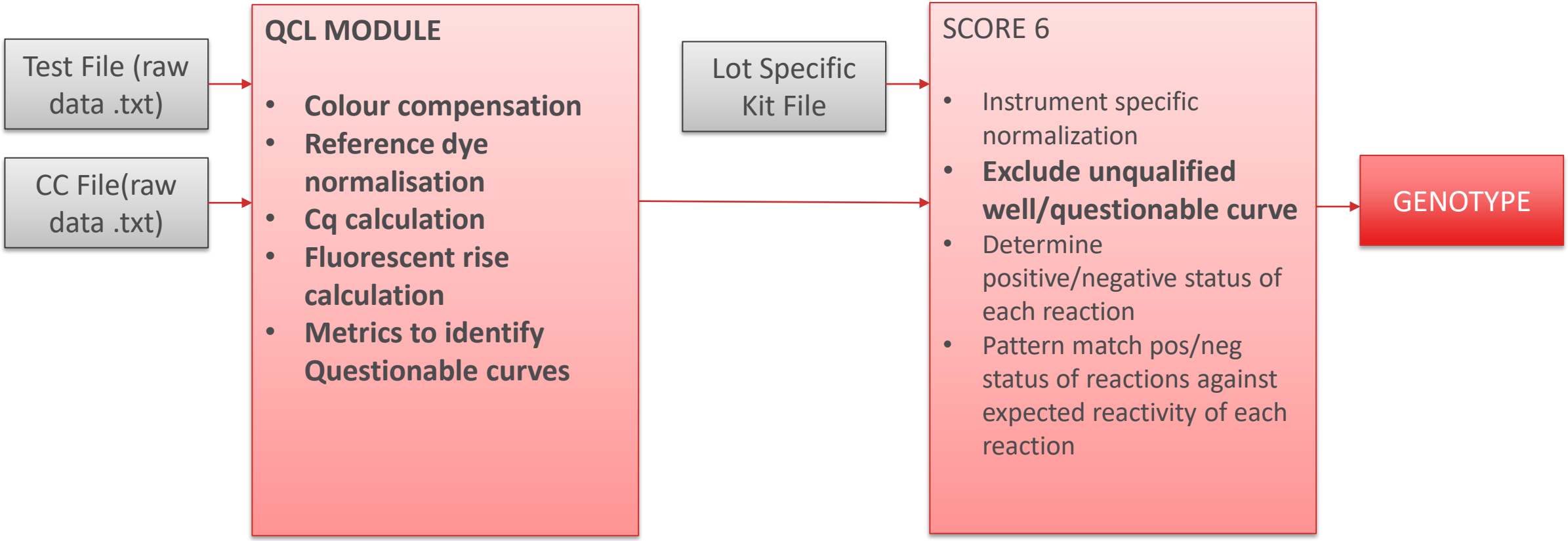
New features: QCL (QTYPE Calculation Library)

- QCL data process flowchart



New features: QCL (QTYPE Calculation Library)

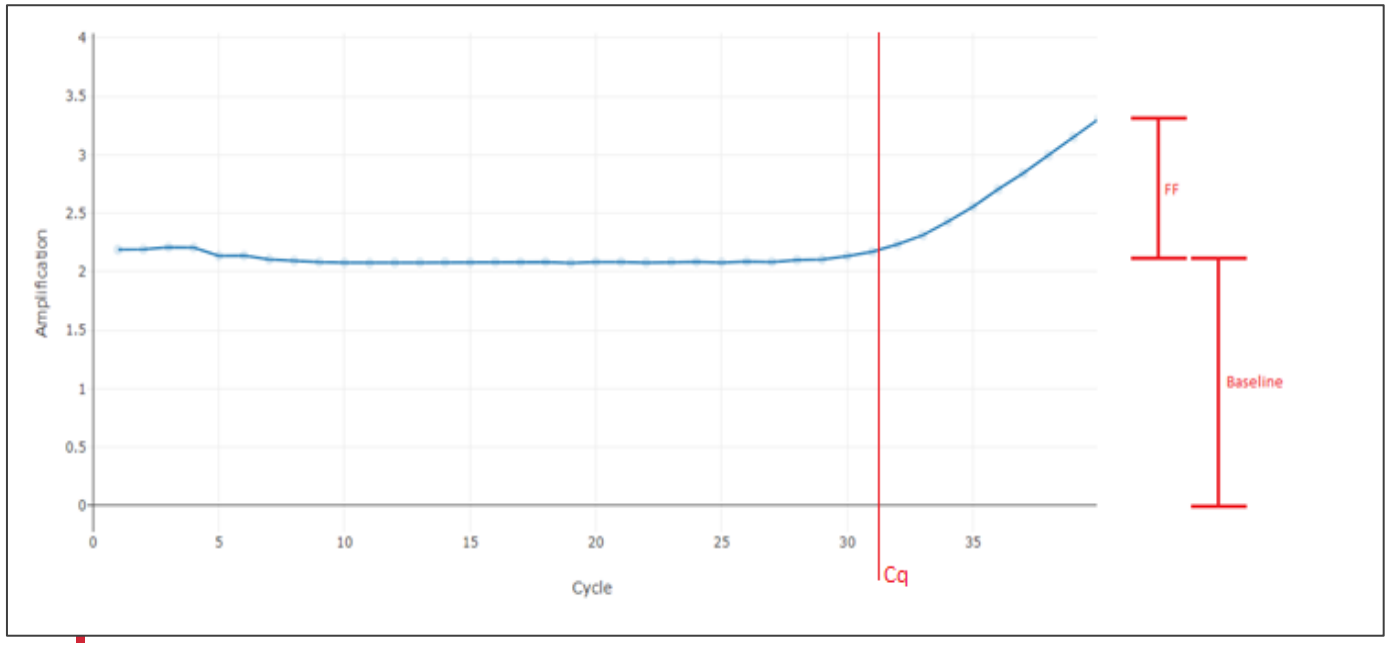
- New Calculation for rFF

Call	
Well	F1
Channel	O560
Cq	28.50
Rel. Cq	1.08
Rel. Range	(0.80-1.25)
Final fl	3.51
Rel. Final fl	2.44
Threshold	1.4

$$\text{Rel. Final fl} = \frac{final\ fluorescence\ (FF)}{reference\ fluorescence\ (baseline)}$$

$$\text{Ex.}\quad 2.44 = \frac{3.51}{reference\ fluorescence\ (baseline)}$$

NOTE: Reference fluorescence (baseline) number doesn't show in SCORE 6.2



- Method 1:
  - Ratio of the **final fluorescence (FF)** to **reference fluorescence (baseline)** for the same reaction (e.g., FF of FAM to baseline of FAM; rFF is calculated independently from R610 FF)
  - this method will be used for most reactions
  - For mixes with an inherently high/low baseline, method 2 will be applied

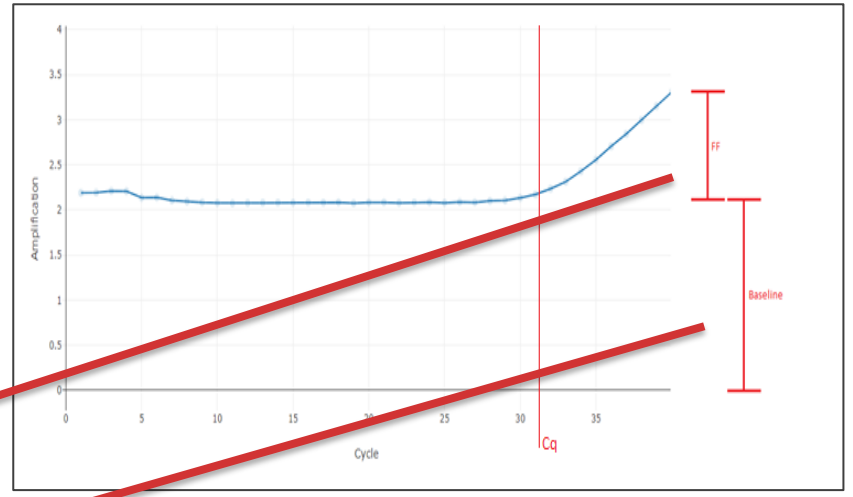
- Method 2 (Same as in SCORE 6.1.3.1, FSCLV):
  - Ratio of **FF of HLA-specific reaction** to **FF of the internal control**

QCL Ref Final Fl vs. FSCLV Ref Final Fl

Both QCL and FSCLV calculations used in SCORE 6.2.x.x
(determined in the typing kit file)

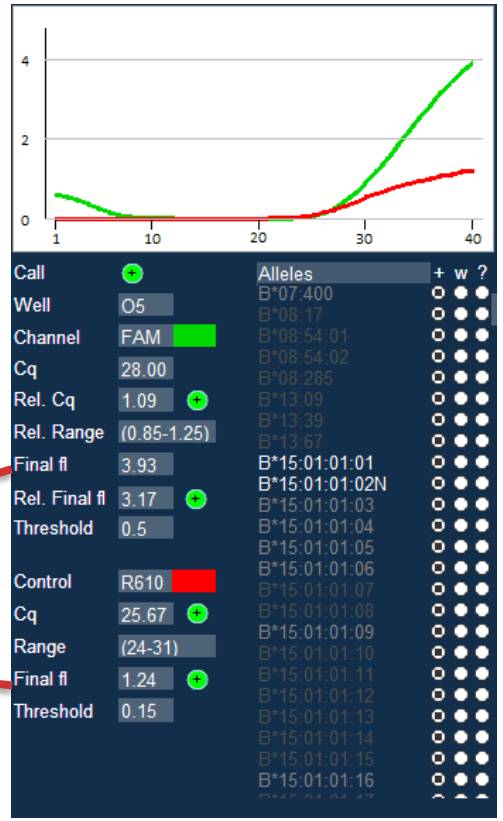
- QCL Ref Final Fl :

$$\text{Rel. Final fl} = \frac{final\ fluorescence\ (FF)}{reference\ fluorescence\ (baseline)}$$



- FSCLV Ref Final Fl :

$$\text{Rel. Final fl} = \frac{final\ fluorescence\ (FF)}{internal\ control\ (R610)\ final\ fluorescence}$$

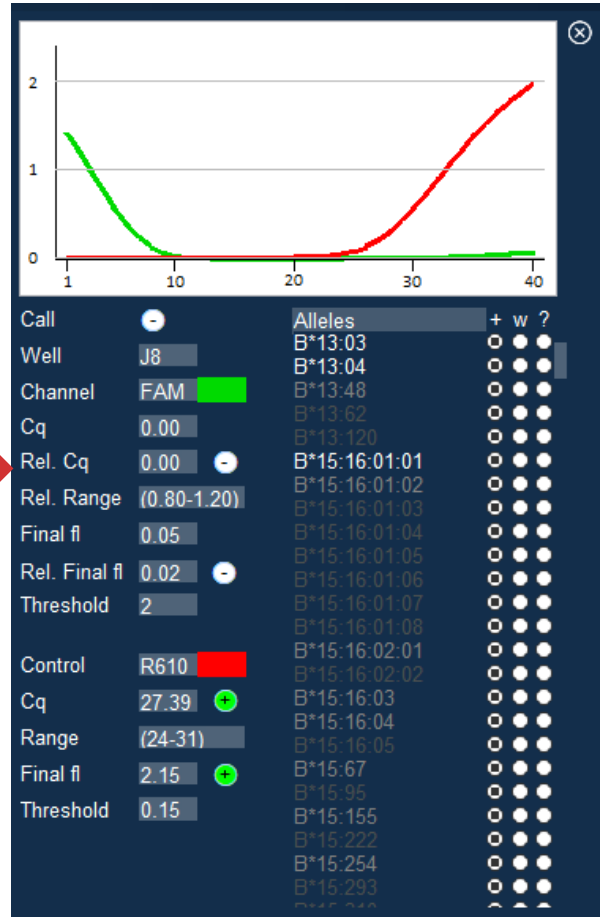


New features: QCL (QTYPE Calculation Library)

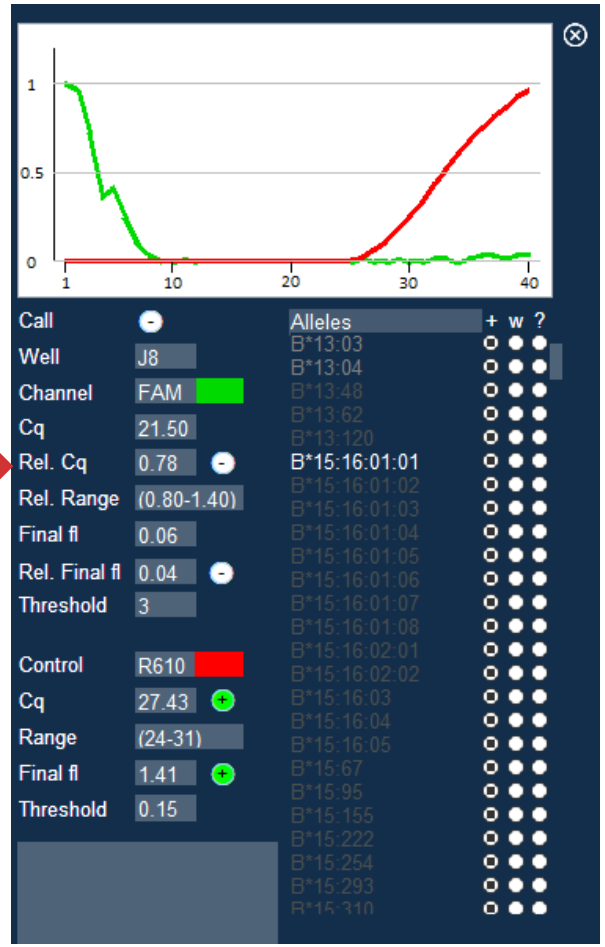
- Benefits of QCL

- Resolves issue with Cq = -1
- Resolves previous issue with incorrect assignment of Cq = 0 to wells with an amplification
- QCL keeps the original Cq calculation without further modification
- No artificial curve smoothening - SCORE 6.2 shows **actual curve characteristics**, including baseline noise. Not connected to any quality change to the wells/assay
- Message box stating the reason for well exclusion when applicable

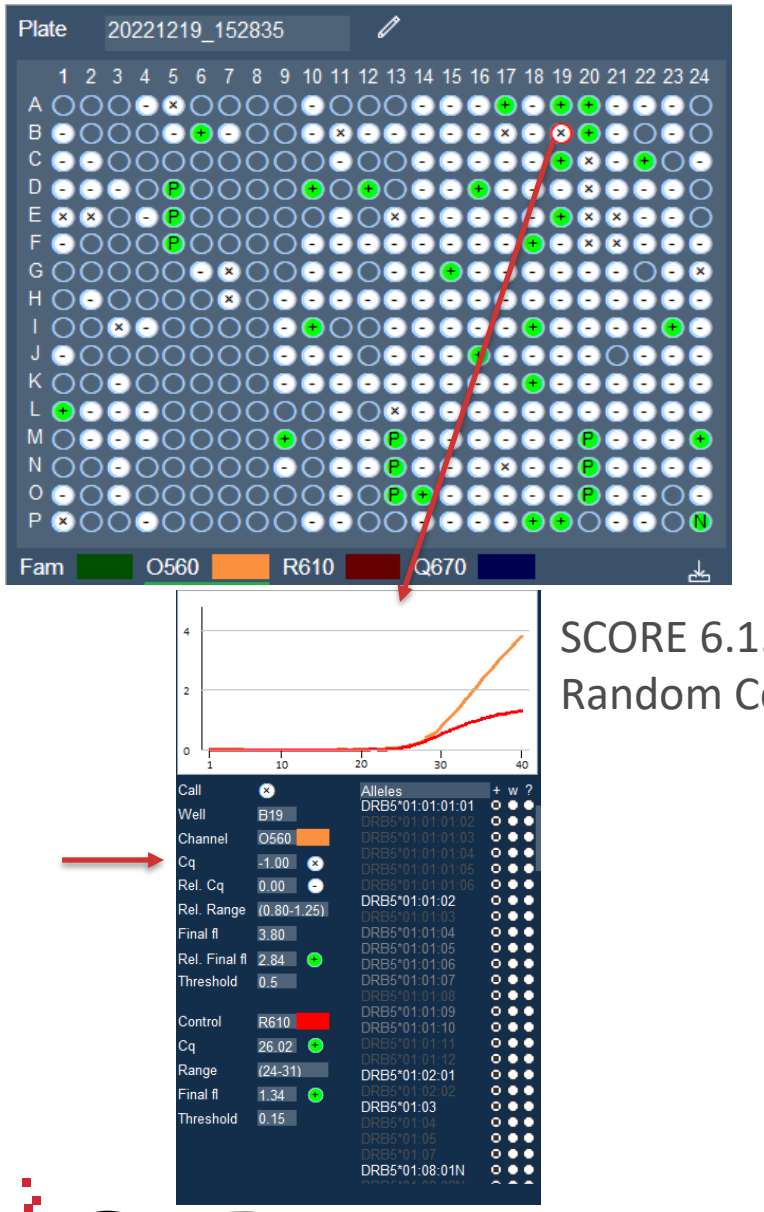
SCORE 6.1.3



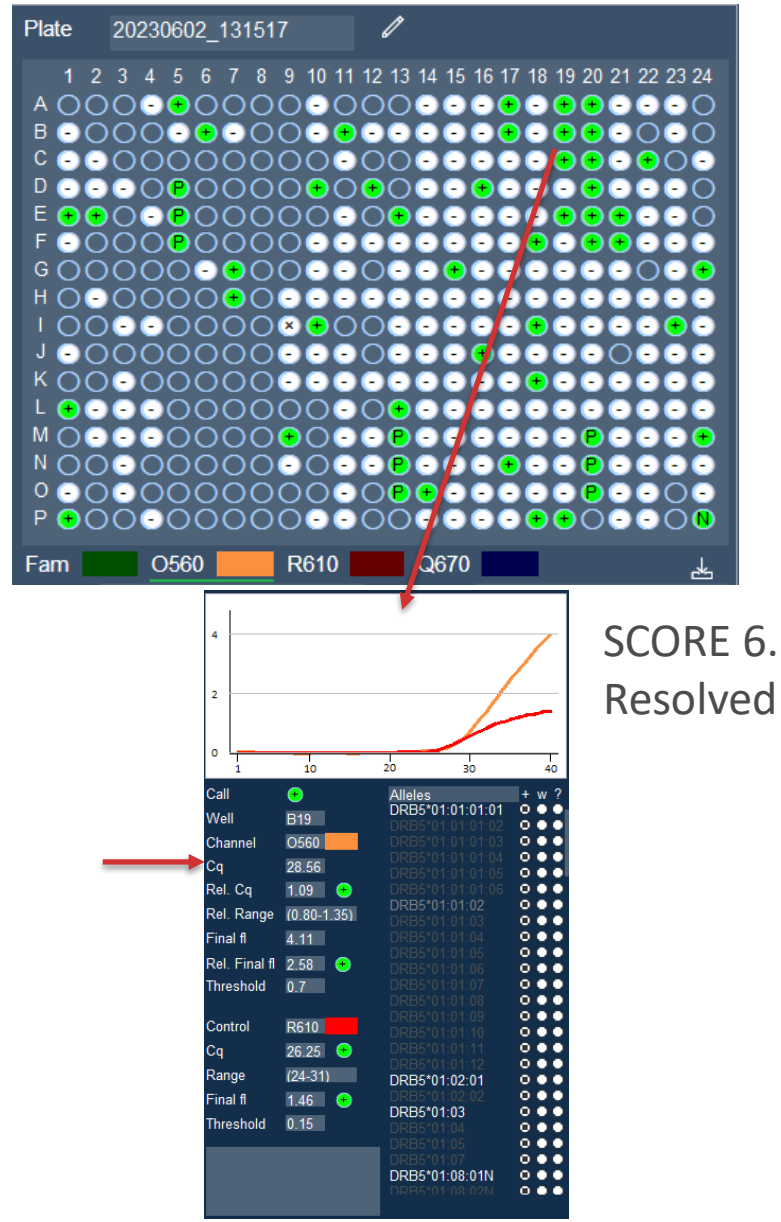
SCORE 6.2.x.x



Example Pictures: Resolves issue with Cq = -1



SCORE 6.1.3
Random Cq= -1



SCORE 6.2.x.x
Resolved issues

2. Exclusion of problematic wells

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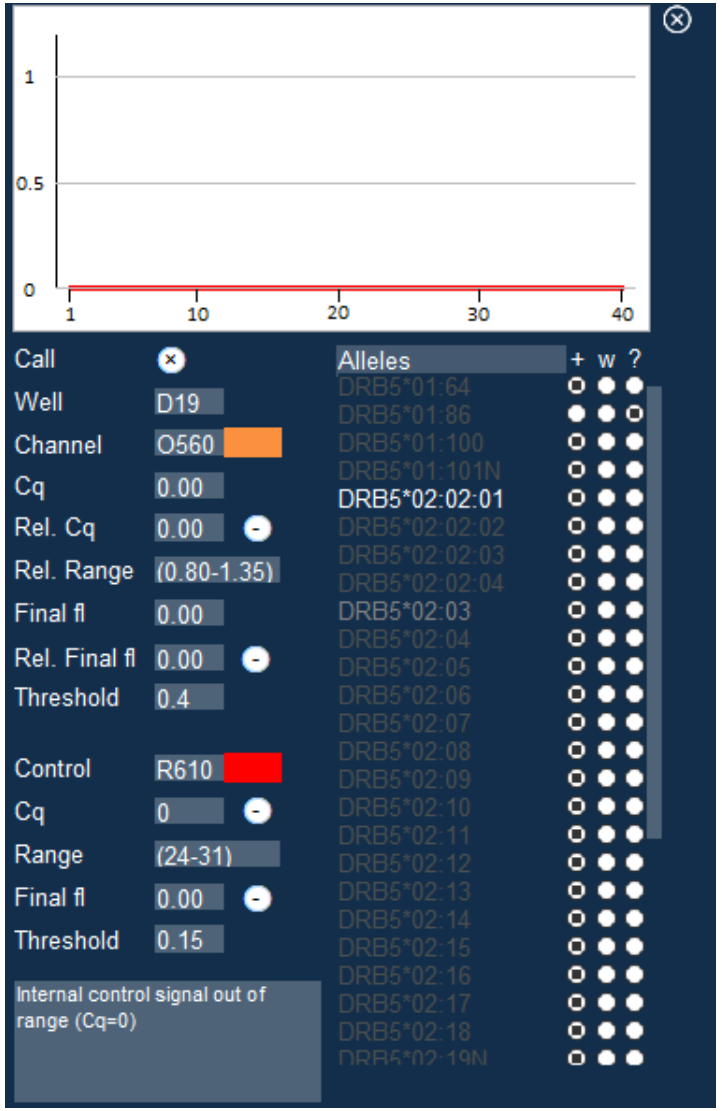
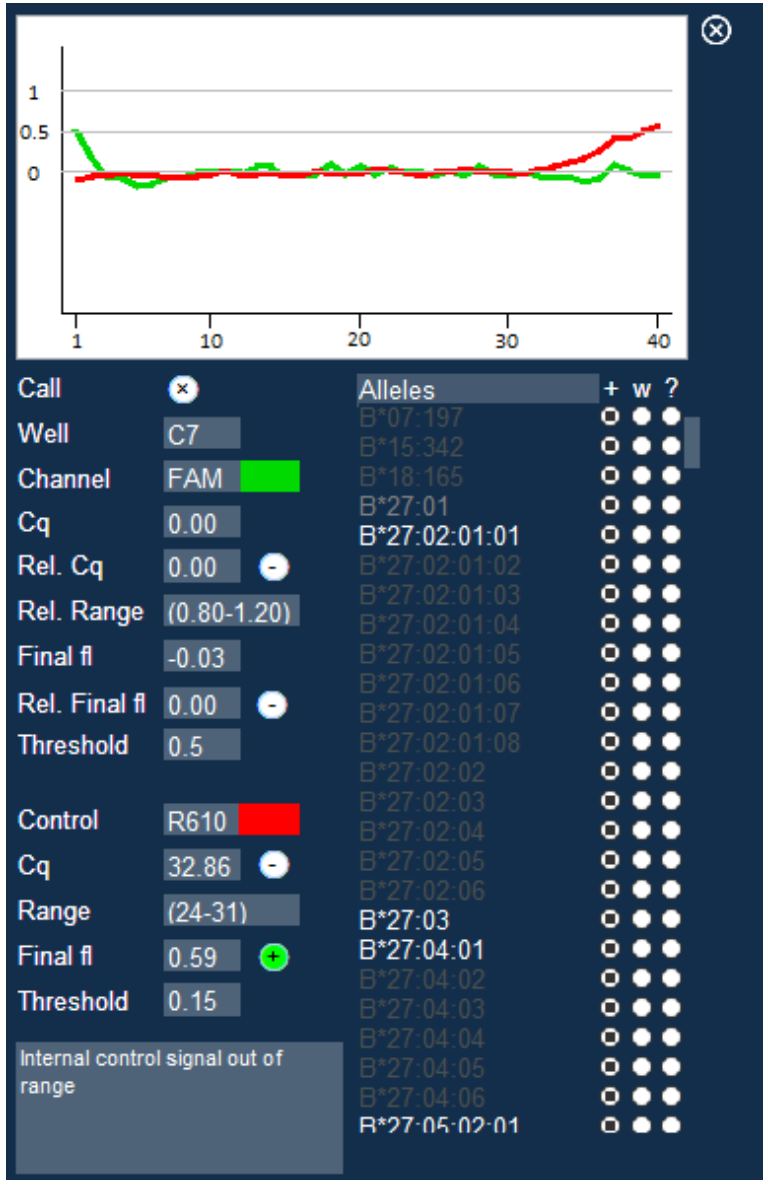
Exclusion of Questionable Wells (1)

- Well exclusions can be triggered for multiple reasons in SCORE 6.2.x.x (Details in IFU)
- QCL brings improved curve artefact detection and SCORE 6.2.x.x will exclude such wells from analysis
- Users may see a higher number of well exclusions across runs compared to SCORE6.1.3

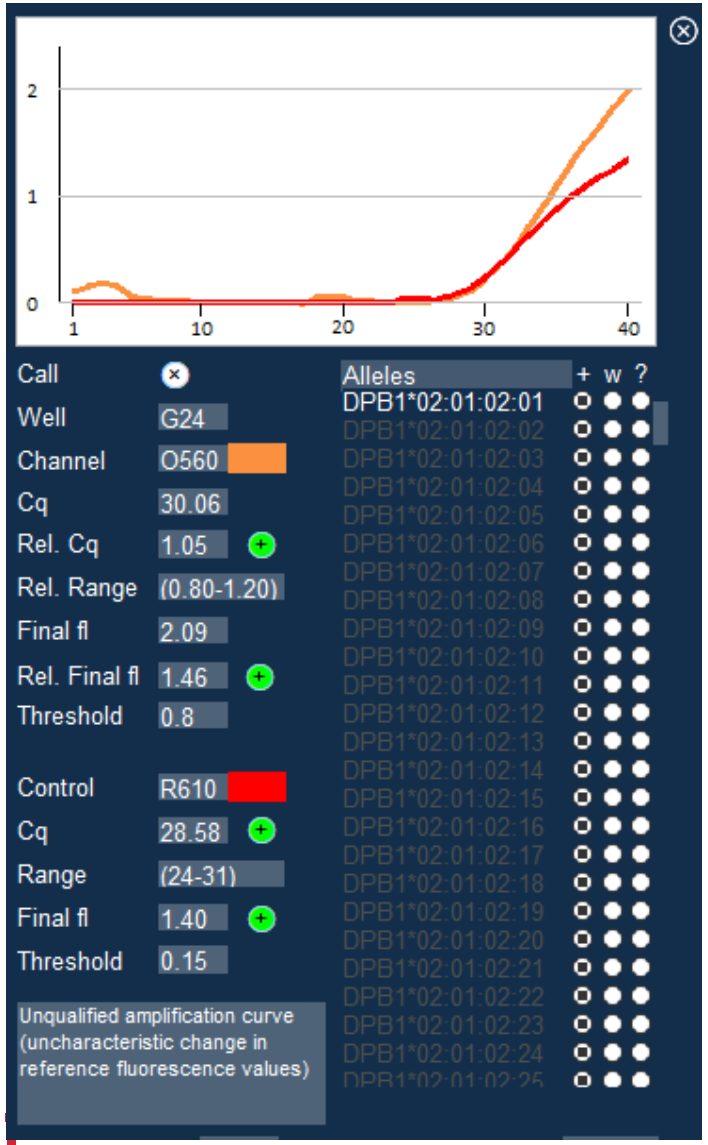


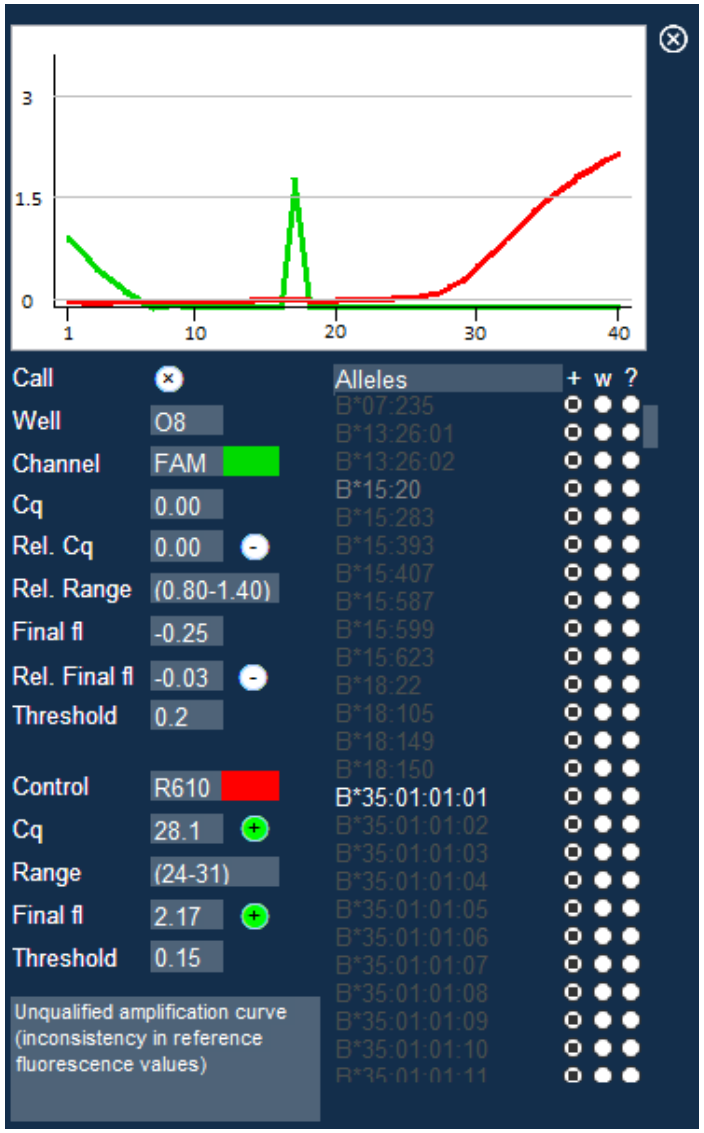
Exclusion of Questionable Wells (2)

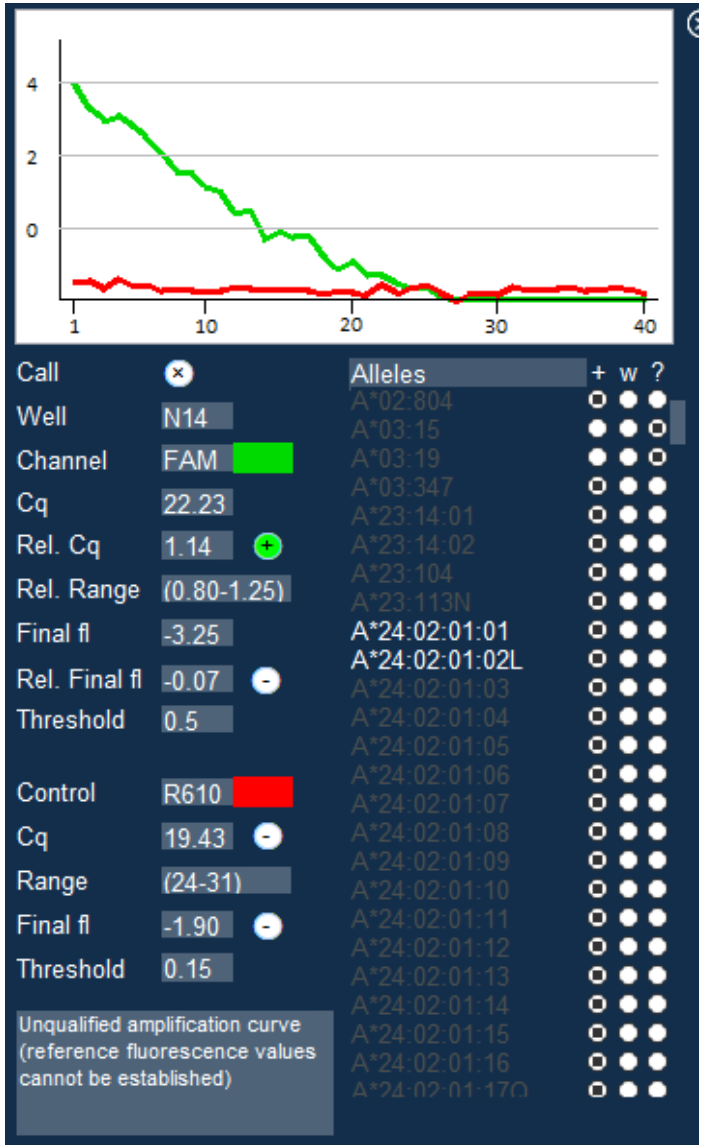
- The change is in the software, is intentional and is not an indication of an issue with the product or assay setup
- The reason of exclusion will be present in the message box in the reactivity panel
- The well exclusion messages have been modified between SCORE 6.2.0.1 and SCORE 6.2.1.0



Examples of well exclusions





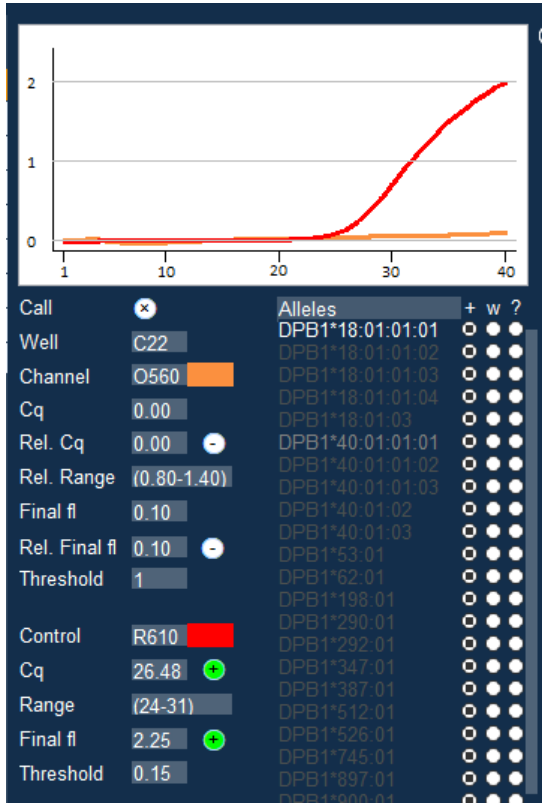


Auto well exclusion messages tables in IFU

Information in the user interface	Potential issue/possible solution
Internal control signal out of range	Potential setup error, likely due to an insufficient amount of DNA added to the well. If problem consistently occurs in the same well(s), please contact CareDx technical support.
Unqualified amplification curve in the internal control channel	Potential setup error, likely due to an insufficient amount of DNA added to the well. If problem consistently occurs in the same well(s), please contact CareDx technical support.
Internal control signal out of range (Cq=0)	Potential pipetting error or instrument setup error. If problem consistently occurs in the same well(s), please contact CareDx technical support.

Users can find the Potential issue/possible solution for each well exclusion messages in SCORE 6 IFU

NOTE: Occasionally, wells with curves that look normal may be excluded



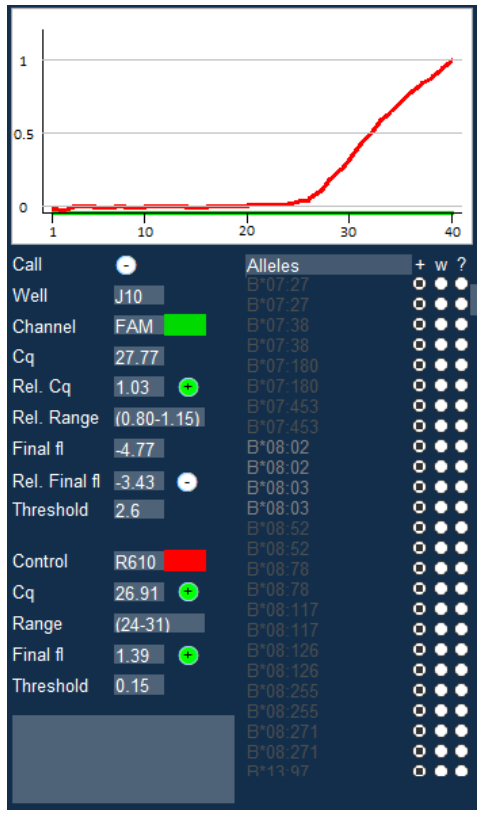
Unqualified amplification curve (uncharacteristic change in reference fluorescence values)

- Metrics had to be set stringent enough to rule out all bad curves
  - Curve jump is there if zoomed in
- Very low prevalence
  - Mix redundancy minimizes negative effect on typing results
  - Manually review the well if needed

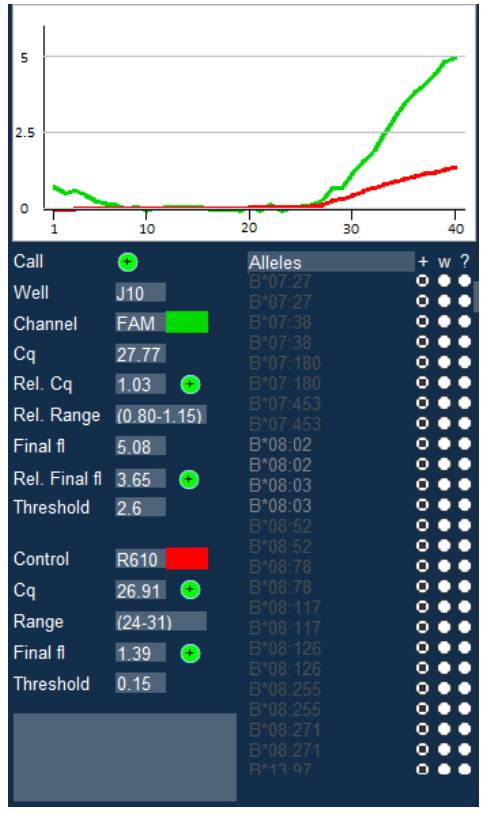
3. Processing high instrument reads

Fix the wells that are most likely to be affected by high values

- SCORE 6.2.0.1 was unable to process wells with high values (instrument-related)
- SCORE 6.2.1.0 applies the new scaling system when needed
- Resolved QS6/7 Pro high instrument read issue



SCORE 6.2.0.1



SCORE 6.2.1.0 (patch)

4. Added instrument compatibility: QuantStudio 6 Pro and QuantStudio 7 Pro

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SCORE 6.2.1.0 can analyze data files from QuantStudio 6 Pro and QuantStudio 7 Pro instruments

- Issues that had to be overcome:
  - Scaling high instrument reads
  - Parsing the data header for QS6 Pro and QS7 Pro (# issue)

```
* Block Type = 384-Well Block
* Calibration Background is expired  = No
* Calibration Background performed on = 10
* Calibration Pure Dye ABY is expired = No
* Calibration Pure Dye ABY performed on =
* Calibration Pure Dye CY5 is expired = No
* Calibration Pure Dye CY5 performed on =
* Calibration Pure Dye FAM is expired = No
* Calibration Pure Dye FAM performed on =
* Calibration Pure Dye JUN is expired = No
* Calibration Pure Dye JUN performed on =
* Calibration Pure Dye MUSTANG PURPLE is e
* Calibration Pure Dye MUSTANG PURPLE perf
```

Old ABI instrument data

```
# File Name: D:\HLA\Ruwe-Data\QTYPE\20230502_Repr2_Qtype_SvD_202
# Comment:
# Operator: Admin
# Barcode:
# Instrument Type: QuantStudio™ 7 Pro System
# Block Type: 384-Well Block
# Instrument Name: QS7Pro-2778722070079
# Instrument Serial Number: 2778722070079
# Heated Cover Serial Number: 2779322021758
# Block Serial Number: 2778321121678
# Run Start Date/Time: 2023-05-02 01:09:38 PM CEST
# Run End Date/Time: 2023-05-02 02:00:06 PM CEST
# Run Duration: 50 minutes 27 seconds
# Sample Volume: 10.0
# Cover Temperature: 105.0
# Passive Reference: NONE
# PCR Stage/Step Number: Stage 2 Step 3
# Quantification Cycle Method: CT
```

QuantStudio 6 / 7 Pro raw data

5. CC file check in SCORE 6.2.x.x

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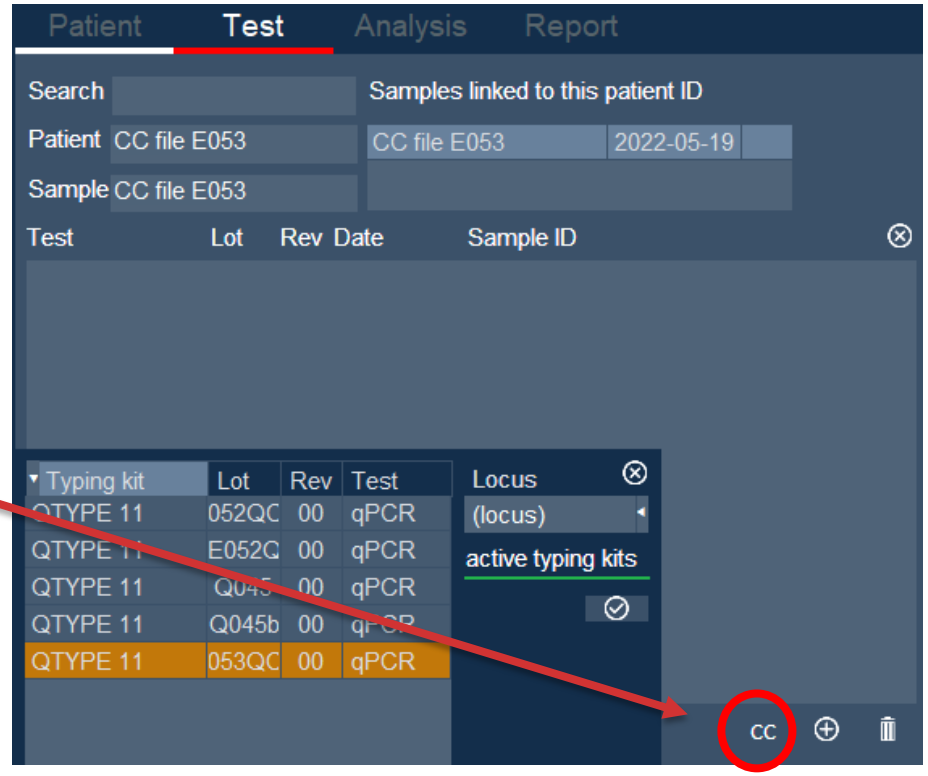
SCORE 6.2.1.0 contains a built-in CC file check

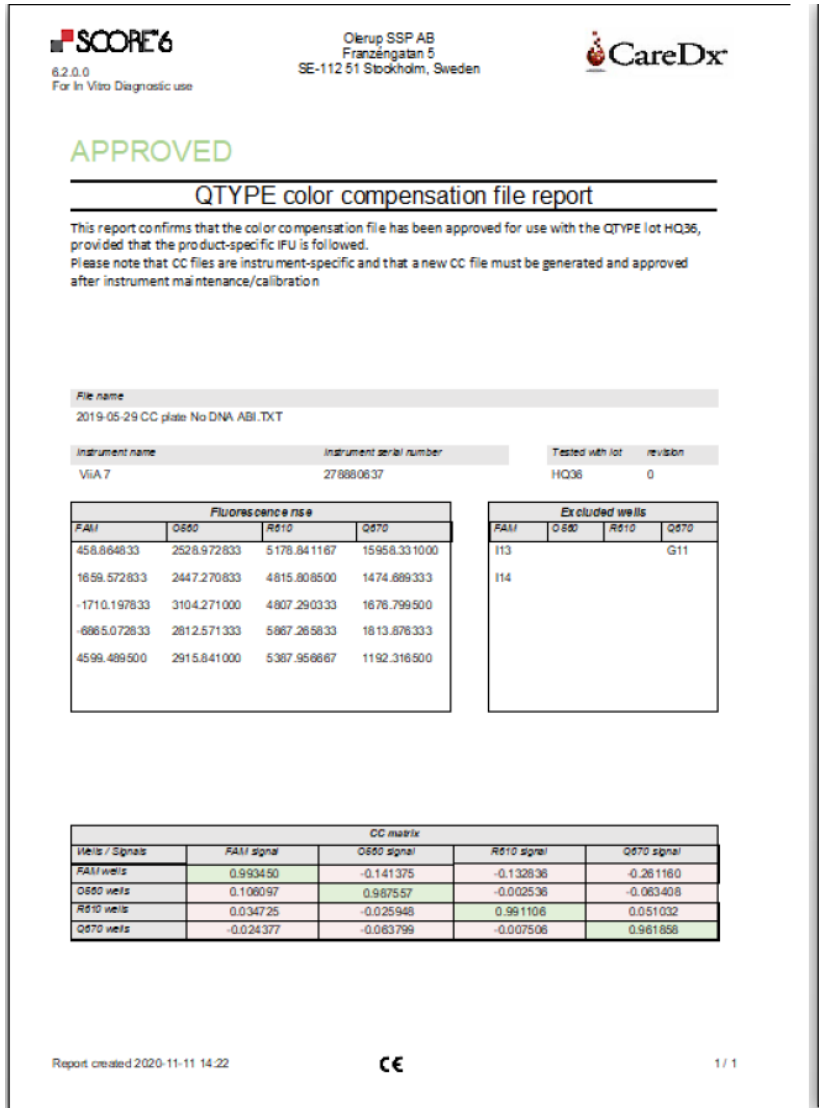
The CC file check can now be done in SCORE, generating a report that can be printed and saved

- CC file check procedure:
  1) Create a new patient/sample
  2) Create a new test
     - Choose the QTYPE lot that corresponds to the CC lot
  3) Click the ‘CC’ button (see picture)
     - Select CC file to be checked



CC file check report

- The CC file check report is auto-generated after clicking CC check
- A minimum of 3 consistent wells per dye is required for the CC to be approved
  - Excluded wells are listed in the report
- The CC file check is **automatically** run with every analysis to prevent users from using an unapproved CC file



SCORE'6
6.2.0.0
For In Vitro Diagnostic use

Olerup SSP AB
Franzéngatan 5
SE-112 51 Stockholm, Sweden

CareDx

APPROVED

QTYPE color compensation file report

This report confirms that the color compensation file has been approved for use with the QTYPE lot HQ36, provided that the product-specific IFU is followed.
Please note that CC files are instrument-specific and that a new CC file must be generated and approved after instrument maintenance/calibration

File name
2019-05-29 CC plate No DNA ABI.TXT

Instrument name	Instrument serial number	Tested with lot	revision
ViiA 7	278880637	HQ36	0

Fluorescence rise

FAM	O560	R610	Q670
458.864833	2528.972833	5178.841167	15958.331000
1659.572833	2447.270833	4815.808500	1474.689333
-1710.197833	3104.271000	4807.290333	1676.799500
-6865.072833	2812.571333	5867.265833	1813.876333
4599.489500	2915.841000	5367.956667	1192.316500

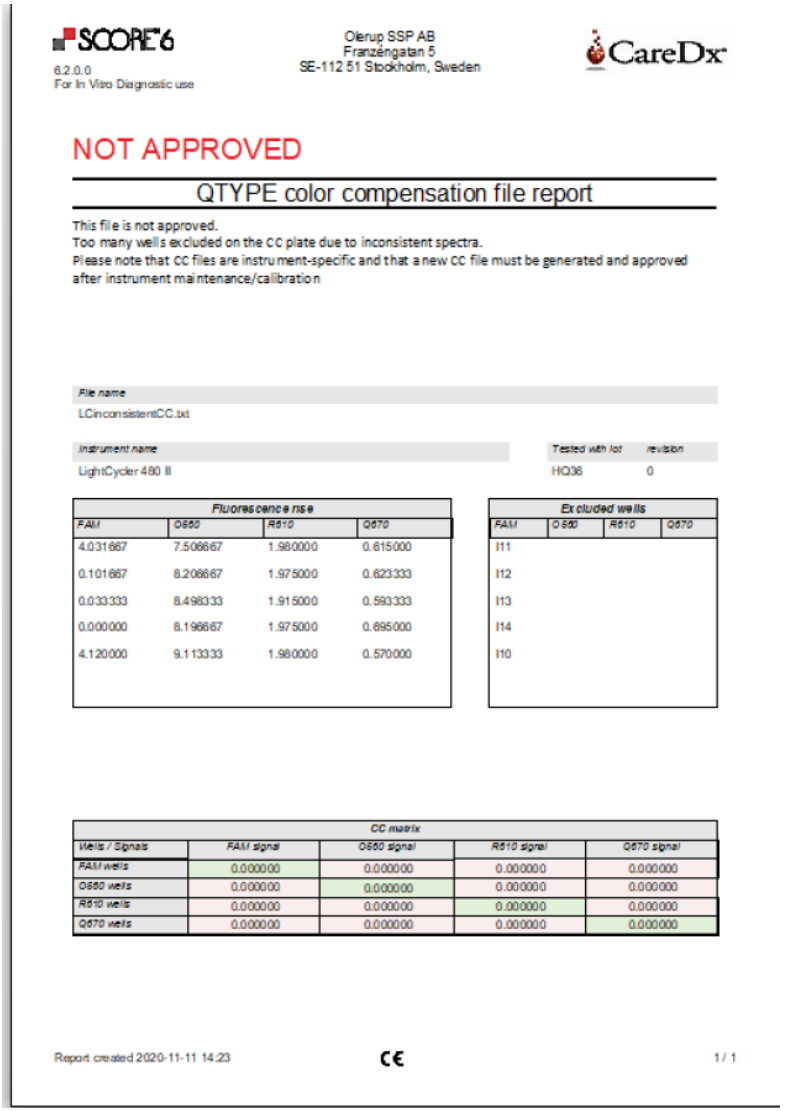
Excluded wells

FAM	O560	R610	Q670
I13			G11
I14			

CC matrix

Wells / Signals	FAM signal	O560 signal	R610 signal	Q670 signal
FAM wells	0.993450	-0.141375	-0.132836	-0.261160
O560 wells	0.106097	0.987557	-0.002536	-0.083408
R610 wells	0.034725	-0.025948	0.991106	0.051032
Q670 wells	-0.024377	-0.063799	-0.007506	0.961858

Report created 2020-11-11 14:22 CE 1 / 1



SCORE'6
6.2.0.0
For In Vitro Diagnostic use

Olerup SSP AB
Franzéngatan 5
SE-112 51 Stockholm, Sweden

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NOT APPROVED

QTYPE color compensation file report

This file is not approved.
Too many wells excluded on the CC plate due to inconsistent spectra.
Please note that CC files are instrument-specific and that a new CC file must be generated and approved after instrument maintenance/calibration

File name
LCinconsistentCC.txt

Instrument name	Tested with lot	revision
LightCycler 480 II	HQ36	0

Fluorescence rise

FAM	O560	R610	Q670
4.031667	7.506667	1.980000	0.615000
0.101667	8.206667	1.975000	0.623333
0.033333	8.496333	1.915000	0.593333
0.000000	8.196667	1.975000	0.695000
4.120000	9.113333	1.960000	0.570000

Excluded wells

FAM	O560	R610	Q670
I11			
I12			
I13			
I14			
I10			

CC matrix

Wells / Signals	FAM signal	O560 signal	R610 signal	Q670 signal
FAM wells	0.000000	0.000000	0.000000	0.000000
O560 wells	0.000000	0.000000	0.000000	0.000000
R610 wells	0.000000	0.000000	0.000000	0.000000
Q670 wells	0.000000	0.000000	0.000000	0.000000

Report created 2020-11-11 14:23 CE 1 / 1

6. Separation of Common and Well documented allele combinations

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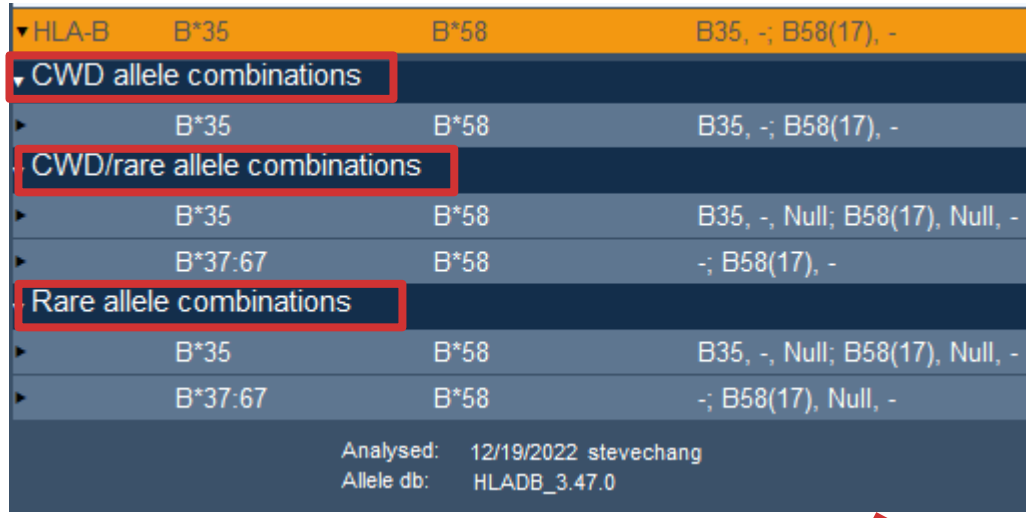
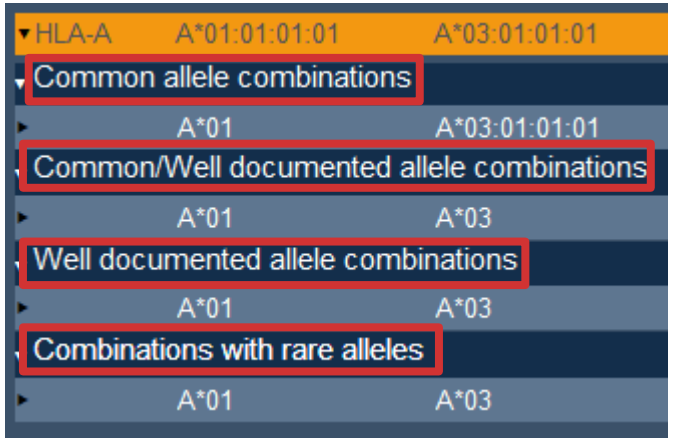
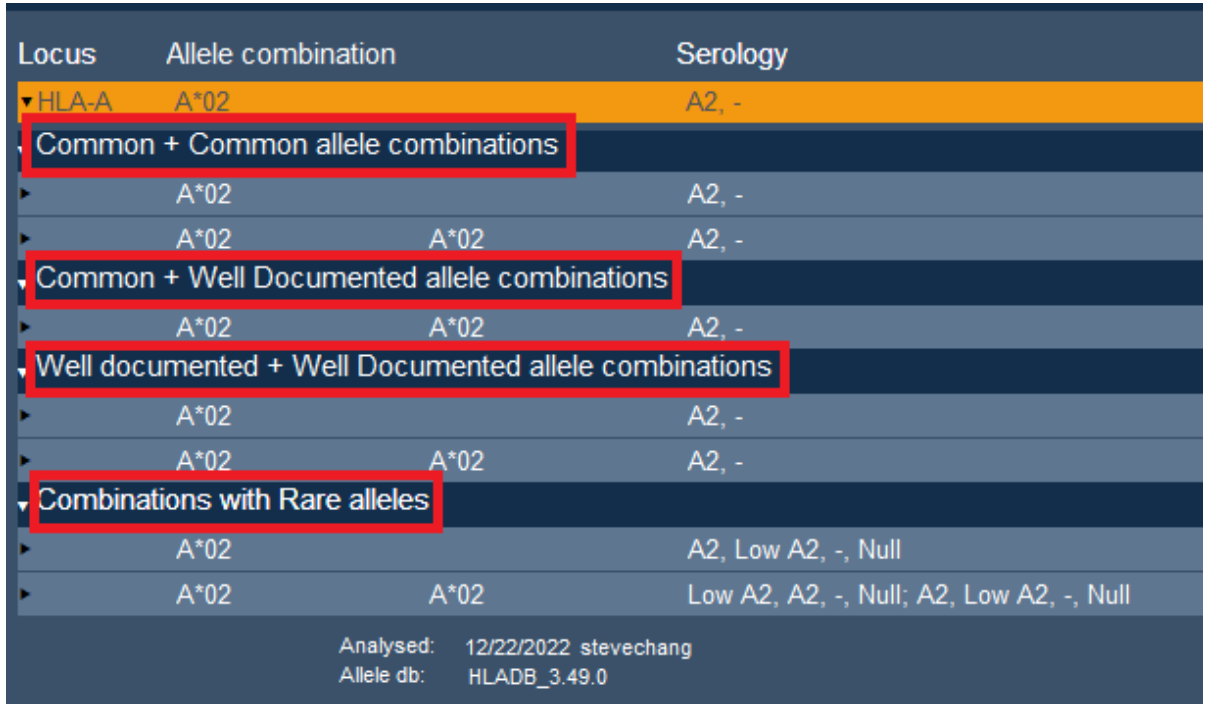
Separation of Common and Well Documented allele combinations



SCORE 6.1.3.1

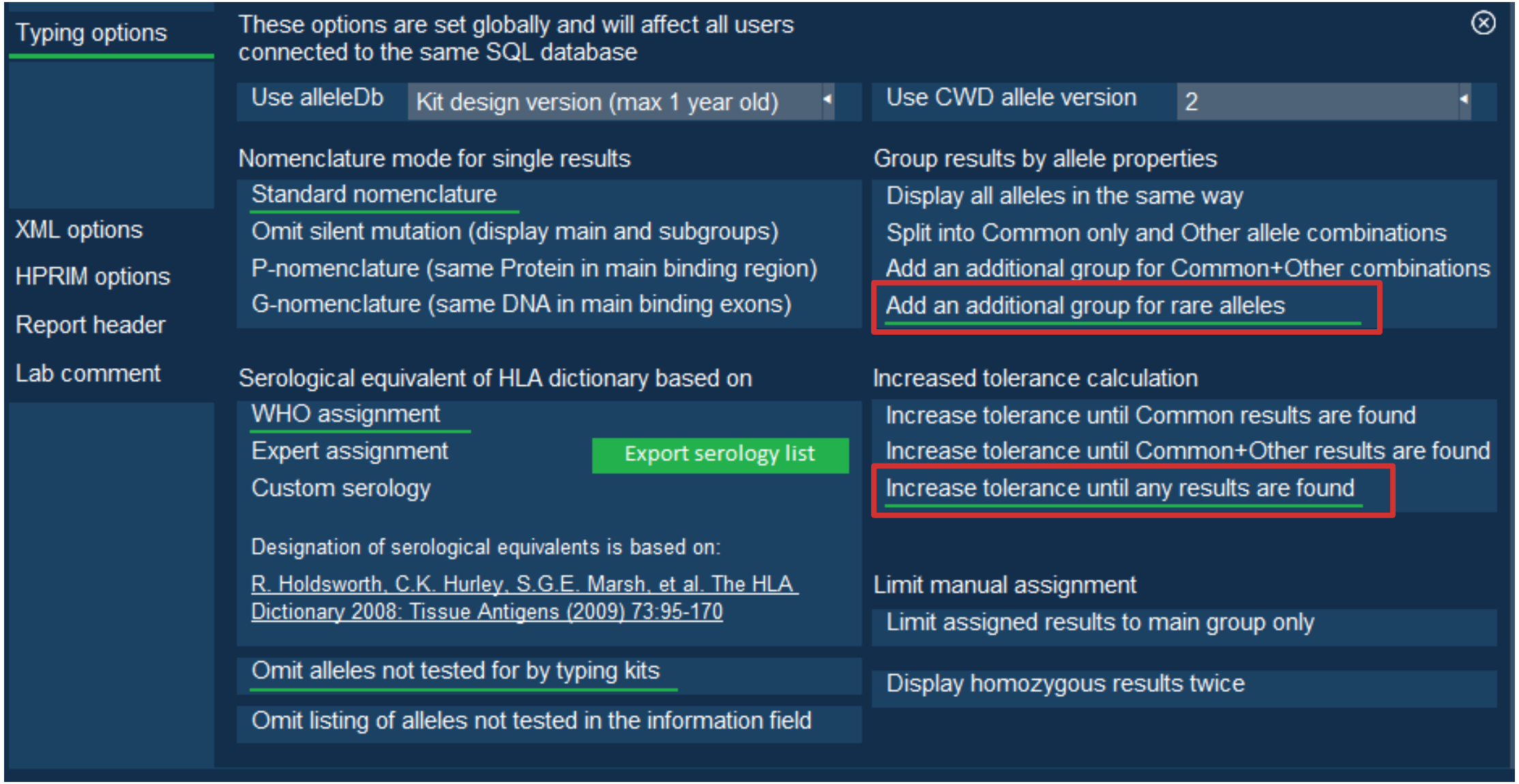


SCORE 6.2.0.1 (CE only)



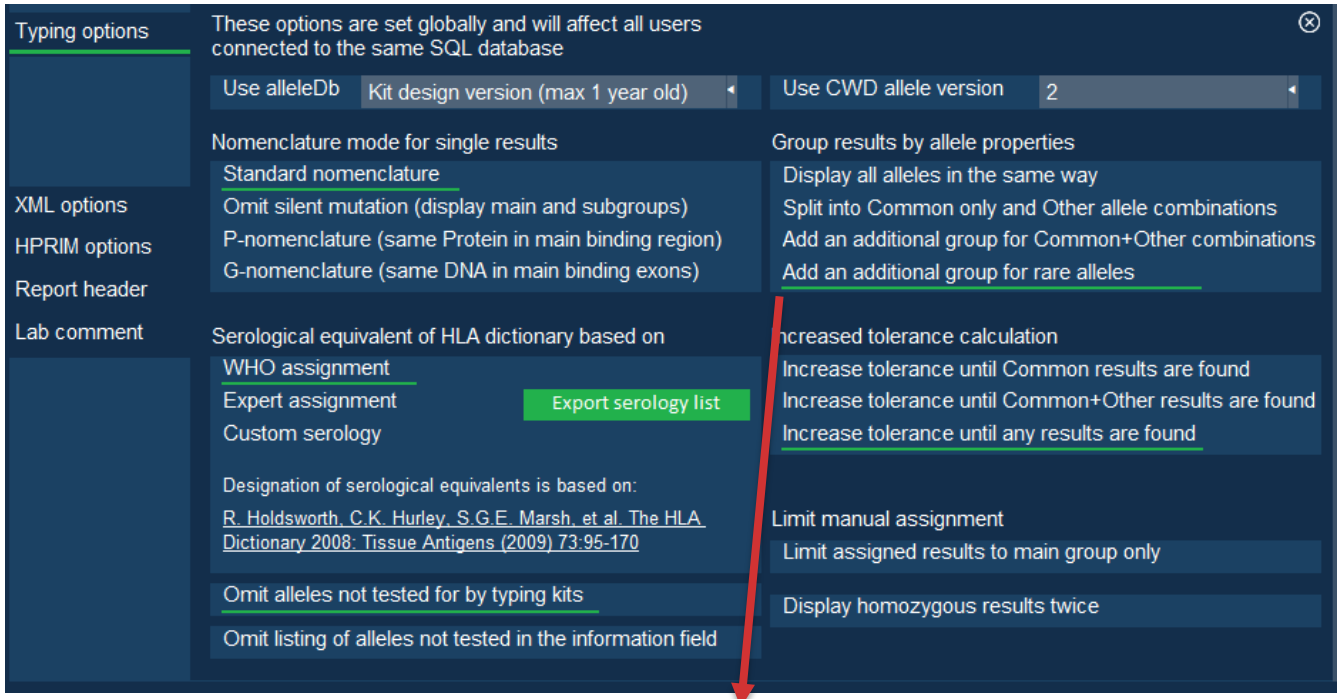
SCORE 6.2.1.0 (patch)

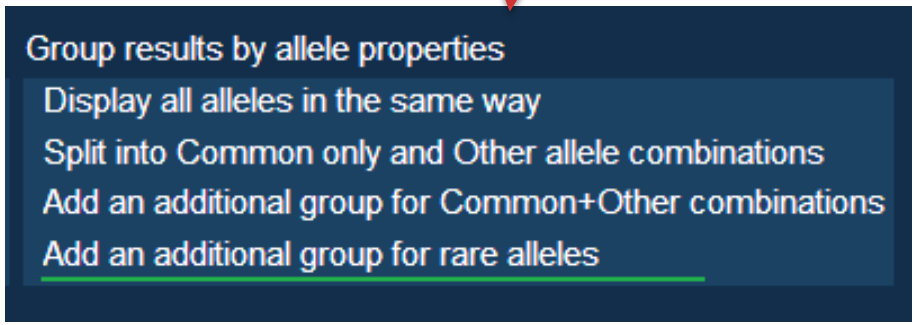
Changed the wording of heading labels title and default settings:

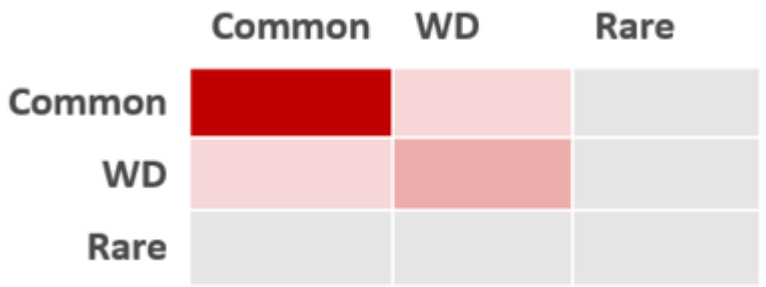


Explanation of the grouping in SCORE 6.2.1.0

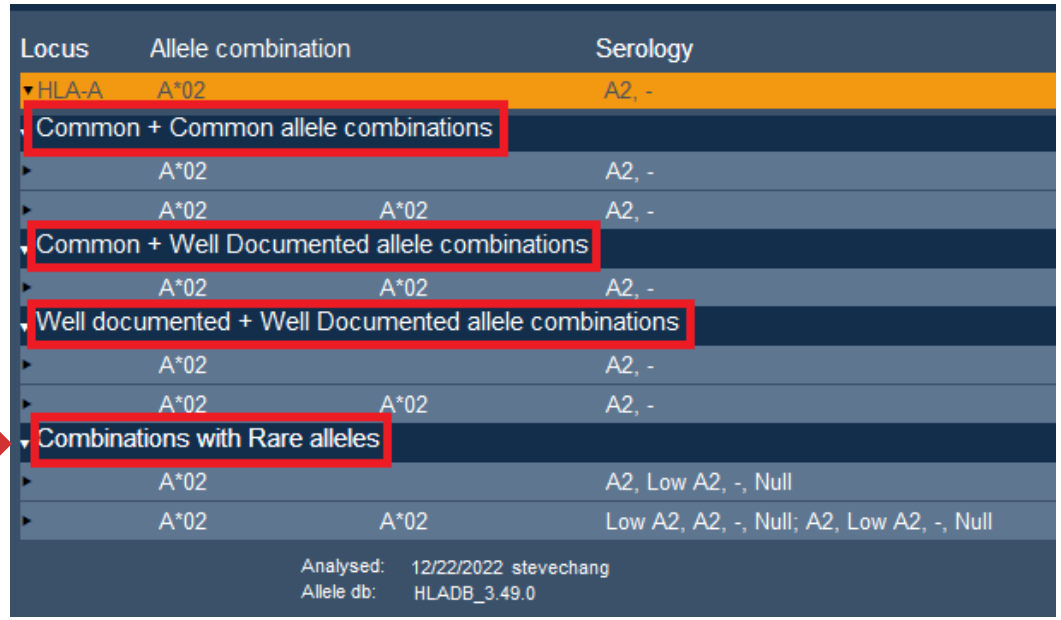
(4) Add an additional group for rare alleles (Default setting)





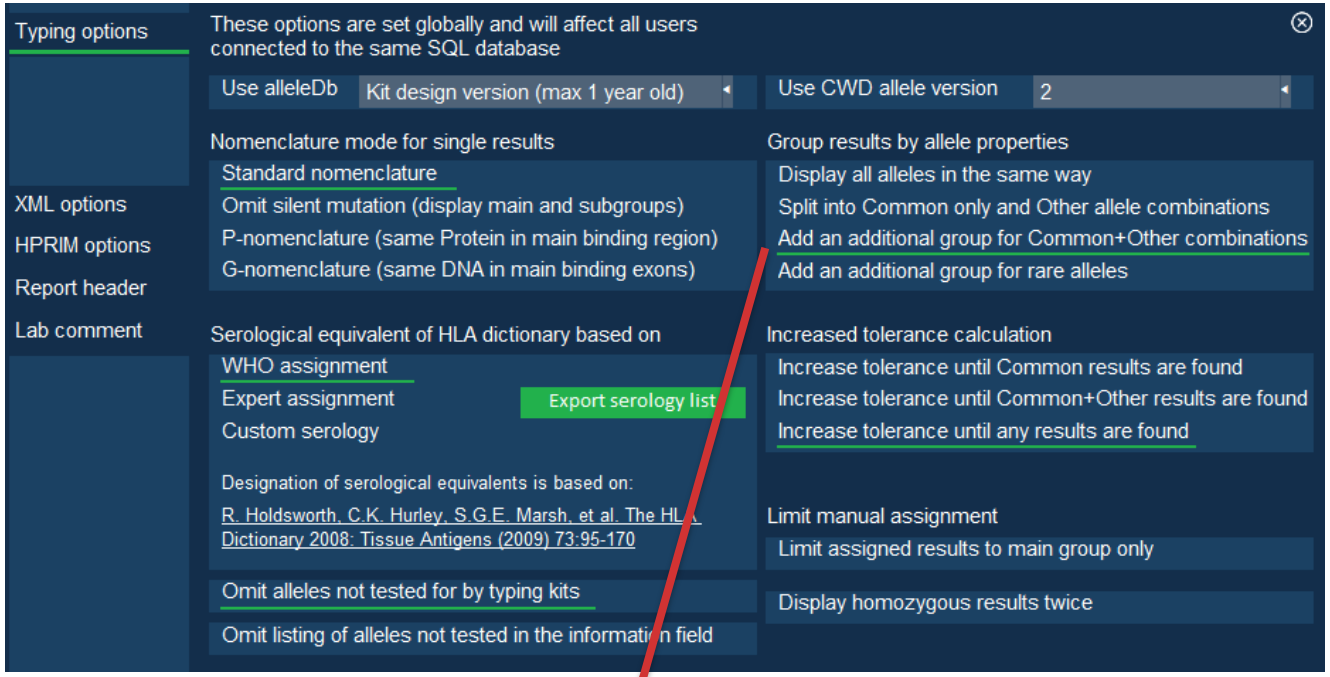


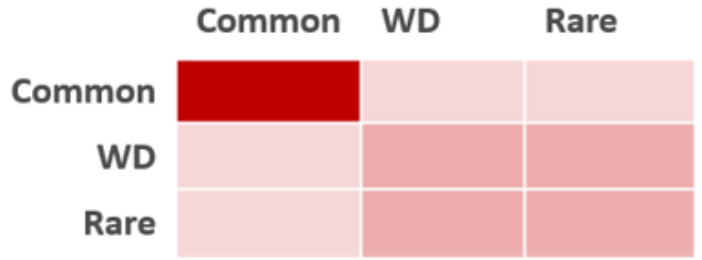
Four groups total



Explanation of the grouping in SCORE 6.2.1.0

(3) Add an additional group for rare alleles (Default setting)

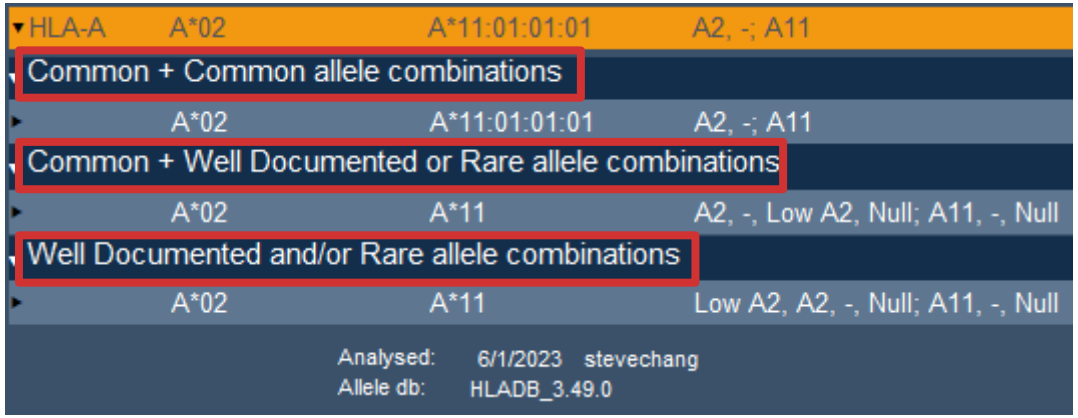




Group results by allele properties

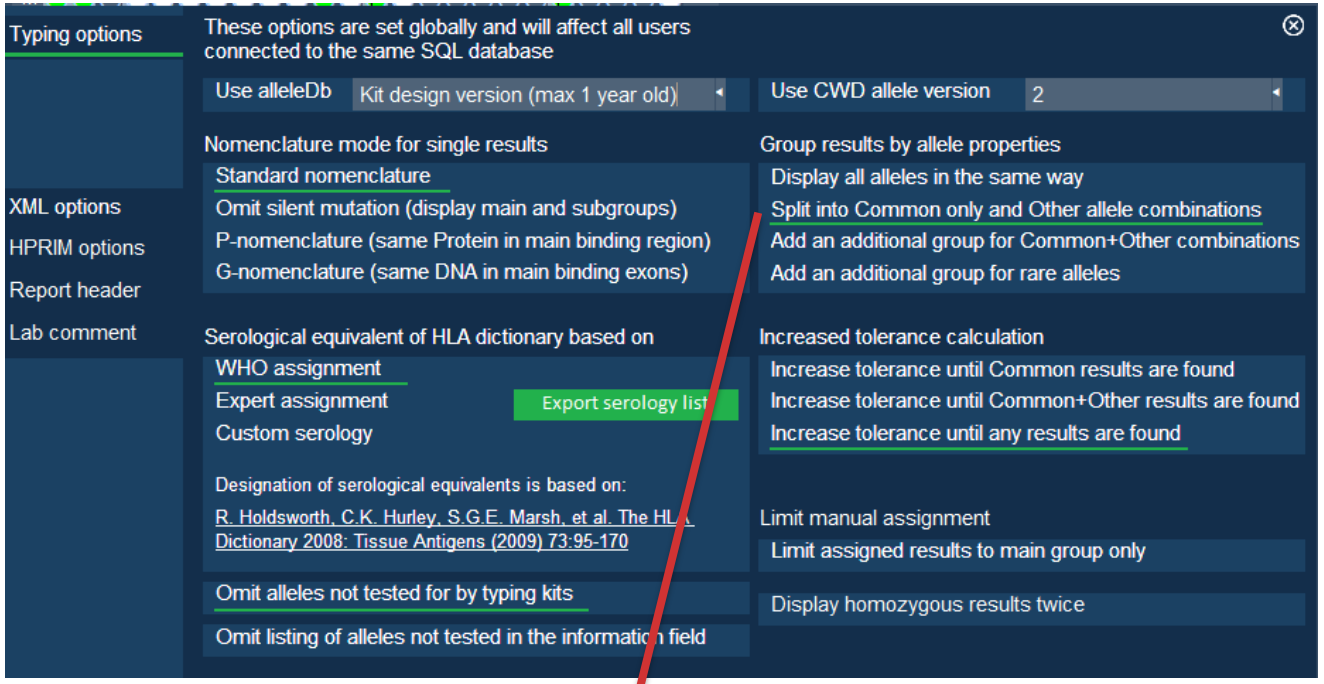
1. Display all alleles in the same way
2. Split into Common only and Other allele combinations
3. Add an additional group for Common+Other combinations
4. Add an additional group for rare alleles

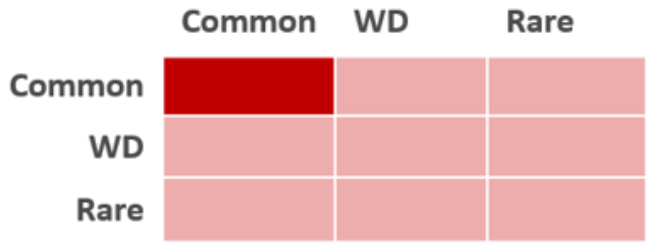
Three groups total

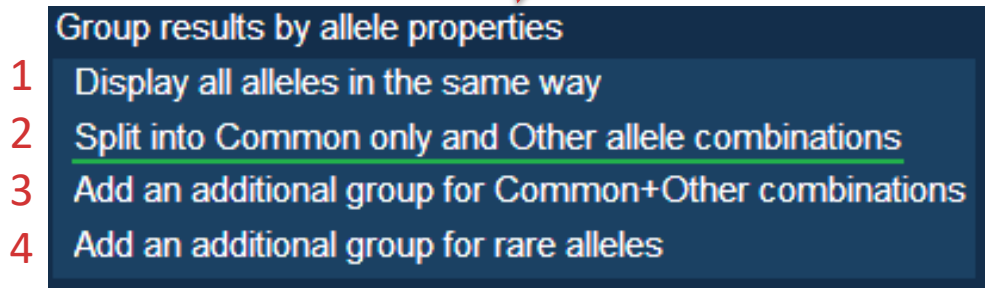


Explanation of the grouping in SCORE 6.2.1.0

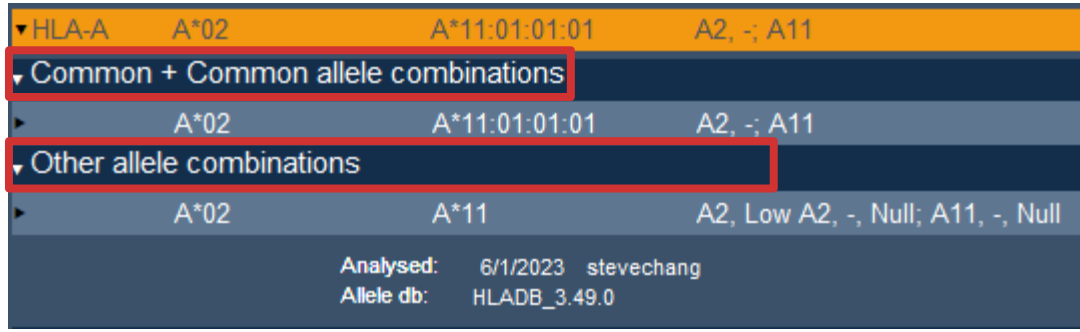
(2) Add an additional group for rare alleles (Default setting)





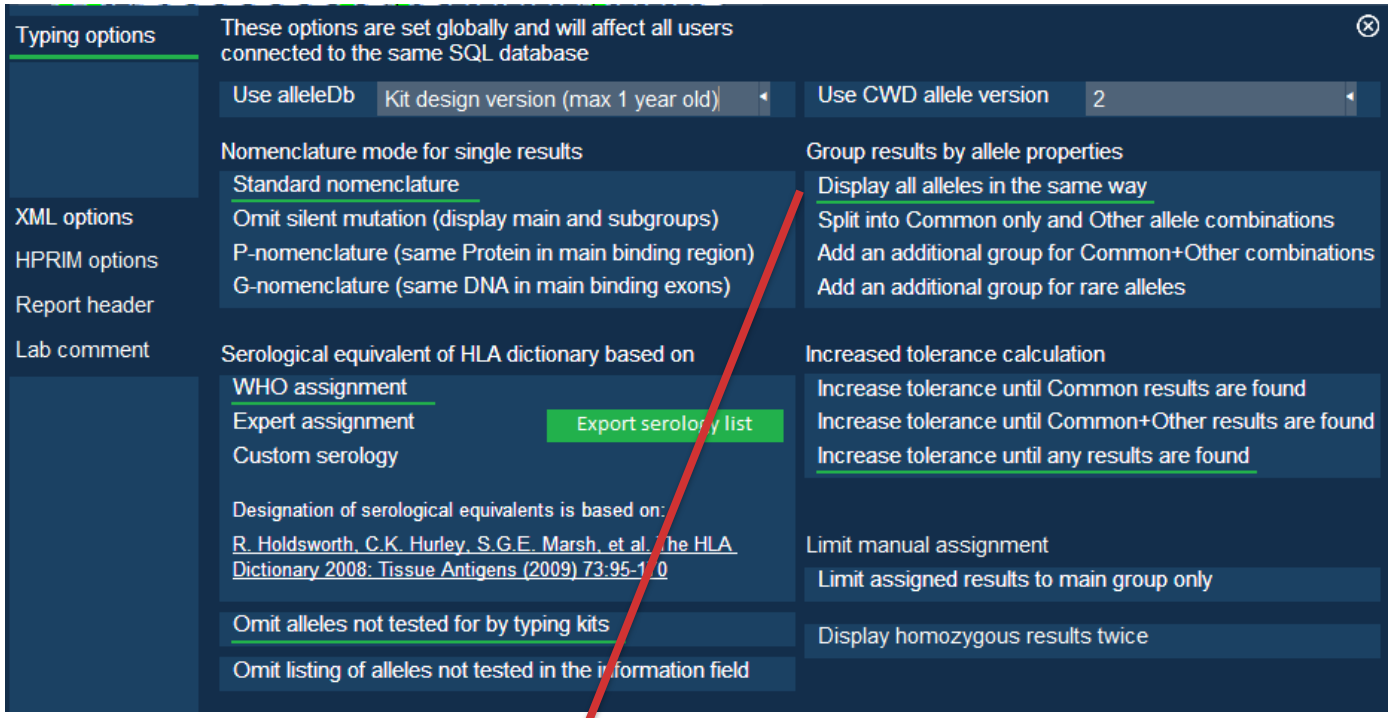


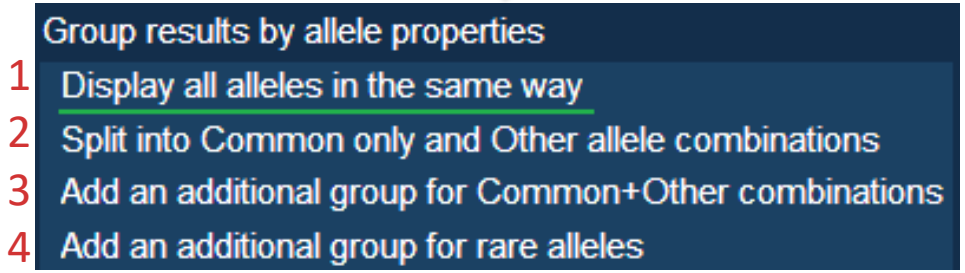
Two groups total



Explanation of the grouping in SCORE 6.2.1.0

(1) Display all alleles in the same way





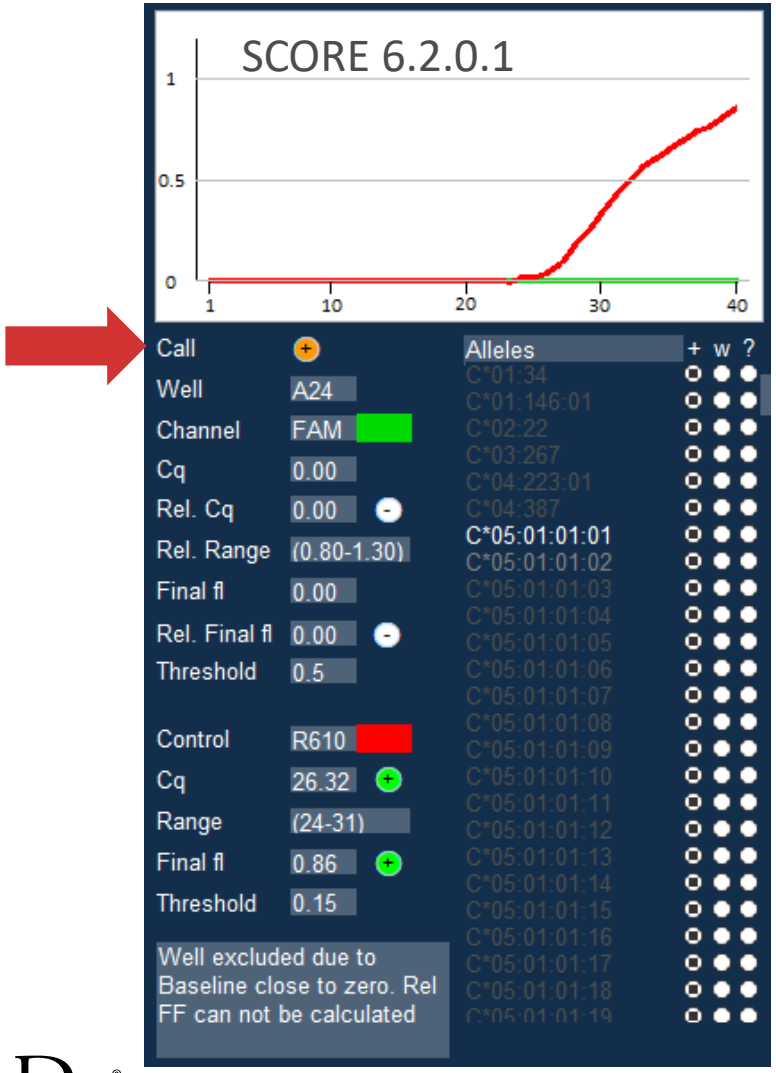
One groups total

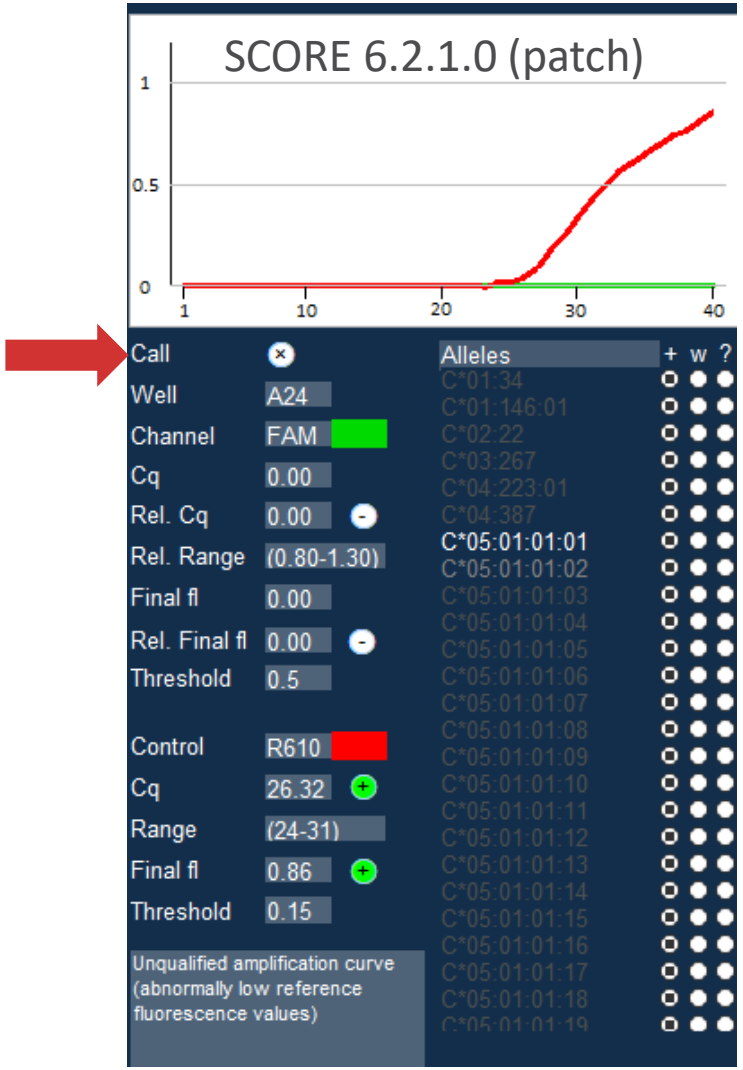
7. Other Fixes and Improvements

CareDx®

(1) A24 orange well display corrected

In rare cases, A24 was displayed as an orange symbol with a '+' sign despite the mix being negative in SCORE 6.2.0.1. This has been changed to the correct symbol for an excluded well in SCORE 6.2.1.0.





(2) SCORE Report Improvements

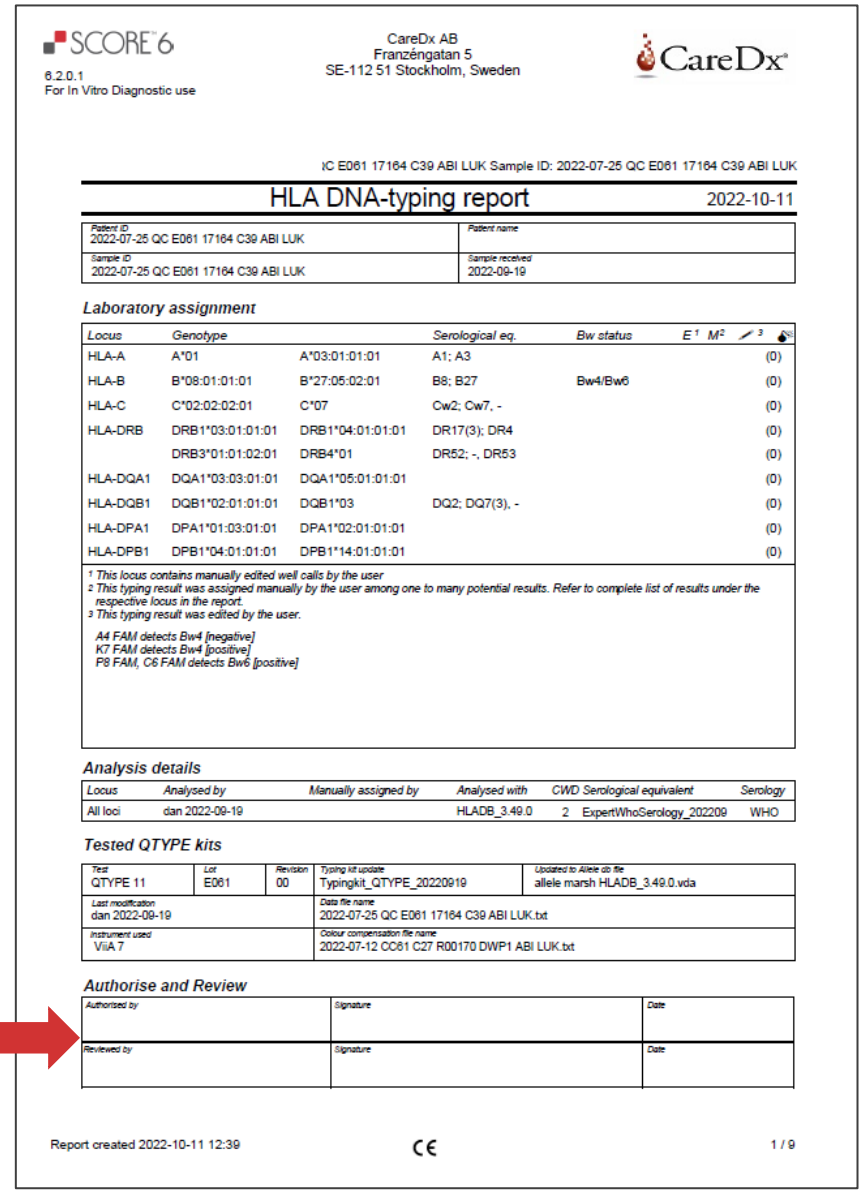
- Serological Equivalent is cleaner; less “-”
- Empty rows in report removed, signature box on the first page

SCORE 6.1.3.1

Locus	Genotype		Serological eq.	Bw status	E¹ M² ✓³	
HLA-A	A*02	A*24	A2, -; A24(9), -, A24, Null, A2403	Bw4		(0)
HLA-B	B*07	B*38	B7, -; B38(16), B16	Bw4/Bw6		(0)
HLA-C	C*07	C*12	Cw7, -; -			(0)
HLA-DRB	DRB1*14:01:01	DRB1*15	DR14(6); DR15(2), -			(0)
	DRB3*02:01	DRB5*01:01	DR52; DR51			(0)
HLA-DQA1	DQA1*01:02	DQA1*01:04:01:01				(0)
HLA-DQB1	DQB1*05:03:01:01	DQB1*06	DQ5(1); DQ6(1), -			(0)
HLA-DPA1	DPA1*01:03:01:01					(0)
HLA-DPB1	DPB1*04:01:01:01					(0)

SCORE 6.2.x.x

Locus	Genotype		Serological eq.	Bw status	E¹ M² ✓³	
HLA-A	A*02	A*24	A2, -; A24(9), -	Bw4		(0)
HLA-B	B*07:02:01:01	B*38	B7; B38(16)	Bw4/Bw6		(0)
HLA-C	C*07:02:01:01	C*12:03:01:01	Cw7; -			(0)
HLA-DRB	DRB1*14:01:01	DRB1*15	DR14(6); DR15(2)			(0)
	DRB3*02:01	DRB5*01:01:01:01	DR52; DR51			(0)
HLA-DQA1	DQA1*01:02:01:01	DQA1*01:04:01:01				(0)
HLA-DQB1	DQB1*05:03:01:01	DQB1*06:02:01:01	DQ5(1); DQ6(1)			(0)
HLA-DPA1	DPA1*01:03:01:01					(0)
HLA-DPB1	DPB1*04:01:01:01					(0)



SCORE 6

6.2.0.1
For In Vitro Diagnostic use

CareDx AB
Franzéngatan 5
SE-112 51 Stockholm, Sweden

CareDx

QC E061 17164 C39 ABI LUK Sample ID: 2022-07-25 QC E061 17164 C39 ABI LUK

HLA DNA-typing report 2022-10-11

Patient ID	Patient name
2022-07-25 QC E061 17164 C39 ABI LUK	
Sample ID	Sample received
2022-07-25 QC E061 17164 C39 ABI LUK	2022-09-19

Laboratory assignment

Locus	Genotype		Serological eq.	Bw status	E¹ M² ✓³	
HLA-A	A*01	A*03:01:01:01	A1; A3			(0)
HLA-B	B*08:01:01:01	B*27:05:02:01	B8; B27	Bw4/Bw6		(0)
HLA-C	C*02:02:02:01	C*07	Cw2; Cw7, -			(0)
HLA-DRB	DRB1*03:01:01:01	DRB1*04:01:01:01	DR17(3); DR4			(0)
	DRB3*01:01:02:01	DRB4*01	DR52; -, DR53			(0)
HLA-DQA1	DQA1*03:03:01:01	DQA1*05:01:01:01				(0)
HLA-DQB1	DQB1*02:01:01:01	DQB1*03	DQ2; DQ7(3), -			(0)
HLA-DPA1	DPA1*01:03:01:01	DPA1*02:01:01:01				(0)
HLA-DPB1	DPB1*04:01:01:01	DPB1*14:01:01:01				(0)

¹ This locus contains manually edited well calls by the user
² This typing result was assigned manually by the user among one to many potential results. Refer to complete list of results under the respective locus in the report.
³ This typing result was edited by the user.

A4 FAM detects Bw4 [negative]
K7 FAM detects Bw4 [positive]
P8 FAM, C6 FAM detects Bw6 [positive]

Analysis details

Locus	Analysed by	Manually assigned by	Analysed with	CWD Serological equivalent	Serology
All loci	dan 2022-09-19		HLADB_3.49.0	2 ExpertWhoSerology_202209	WHO

Tested QTYPE kits

Test	Lot	Revision	Typing kit update	Updated to Allele db file
QTYPE 11	E061	00	Typingkit_QTYPE_20220919	allele marsh HLADB_3.49.0.vda
Last modification: dan 2022-09-19			Data file name: 2022-07-25 QC E061 17164 C39 ABI LUK.txt	
Instrument used: ViiA 7			Colour compensation file name: 2022-07-12 CC61 C27 R00170 DWP1 ABI LUK.txt	

Authorise and Review

Authorised by	Signature	Date
Reviewed by	Signature	Date

Report created 2022-10-11 12:39 CE 1 / 9

(3) File name of the imported serology file is included in the report

SCORE 6.1.3.1

Analysis details

Locus	Analysed by	Manually assigned by	Analysed with Allele db	CWD	Serological equivalent
All loci	Carolin 2020-09-24		HLADB_3.40.0	2	WHO assignment

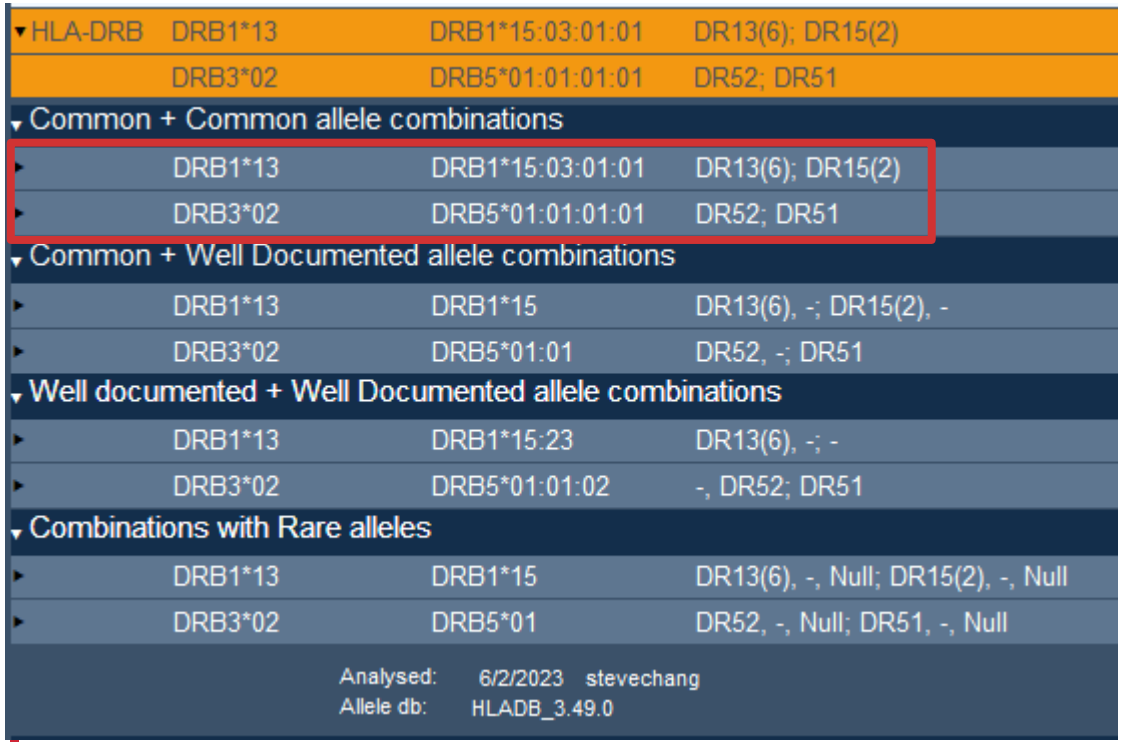
SCORE 6.2.x.x

Analysis details

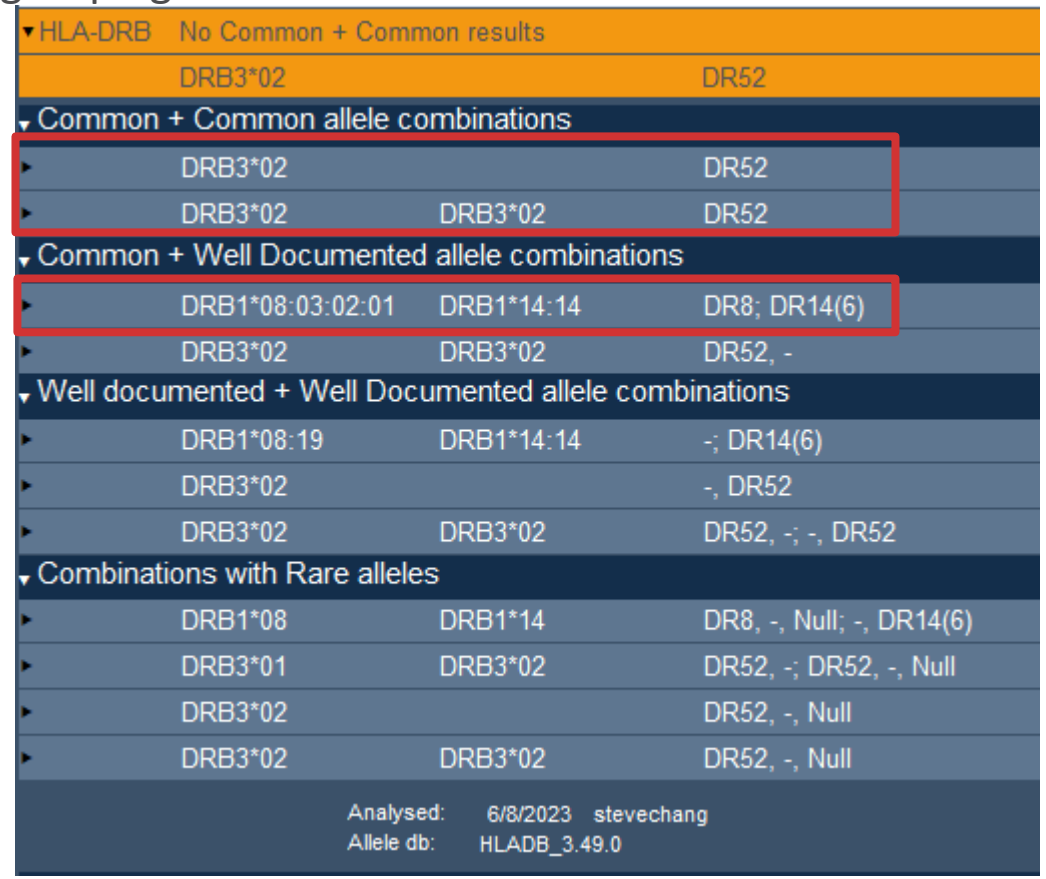
Locus	Analysed by	Manually assigned by	Analysed with	CWD	Serological equivalent	Serology
All loci	Rebecka 16/05/2022		HLADB_3.47.0	2	ExpertWhoSerology_202201	WHO

(4-1) DRB1 and DRB345 results are no longer grouped as a single locus and are now grouped and presented according to CWD allele status in the Analysis pane

Example 1: A sample with 'Common + Common' DRB1 and DRB3 alleles; both are presented under 'Common + Common allele combinations'

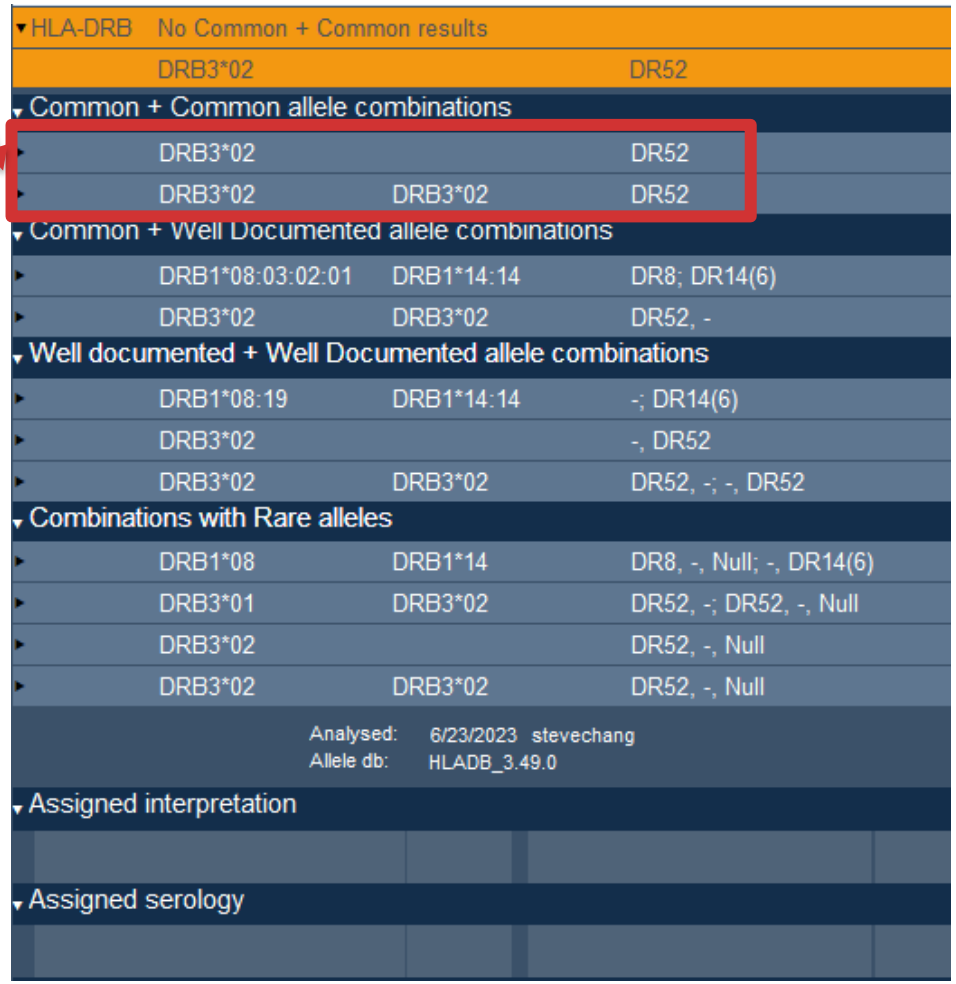


Example 2: A sample with a 'Common + Common' DRB3 allele results; the DRB1 results are listed under the other groupings as there is no 'Common + Common' DRB1 result.

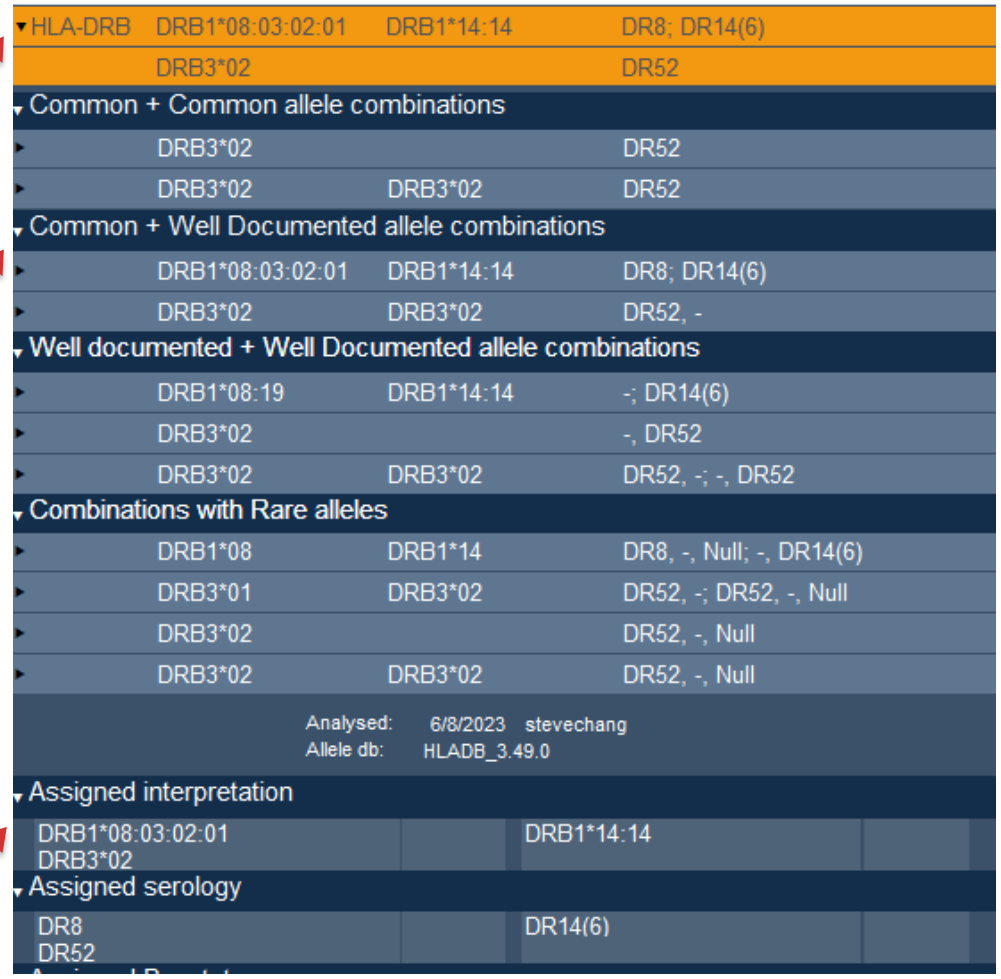


(4-2) DRB1 and DRB345 results are still assigning in association by double clicking one of the alleles

Double Click DRB3 Common + Common result

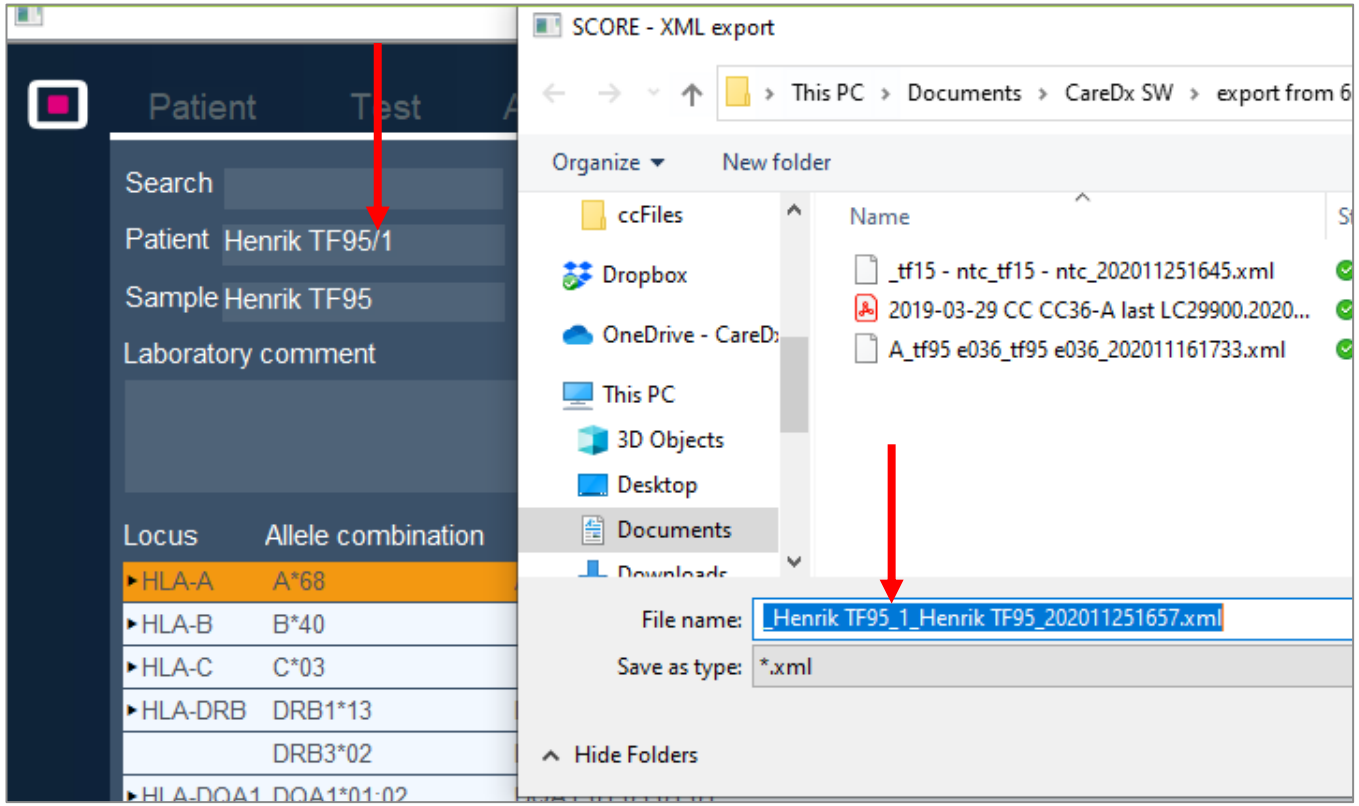


Associated DRB1 (Common + Well Document) results shown in Assigned results



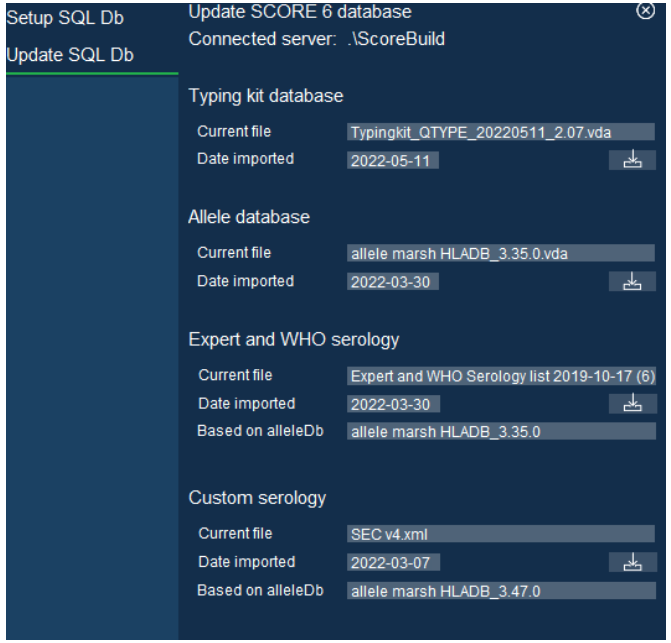
(5) Xml file exported even if there are unsupported characters in the Patient ID

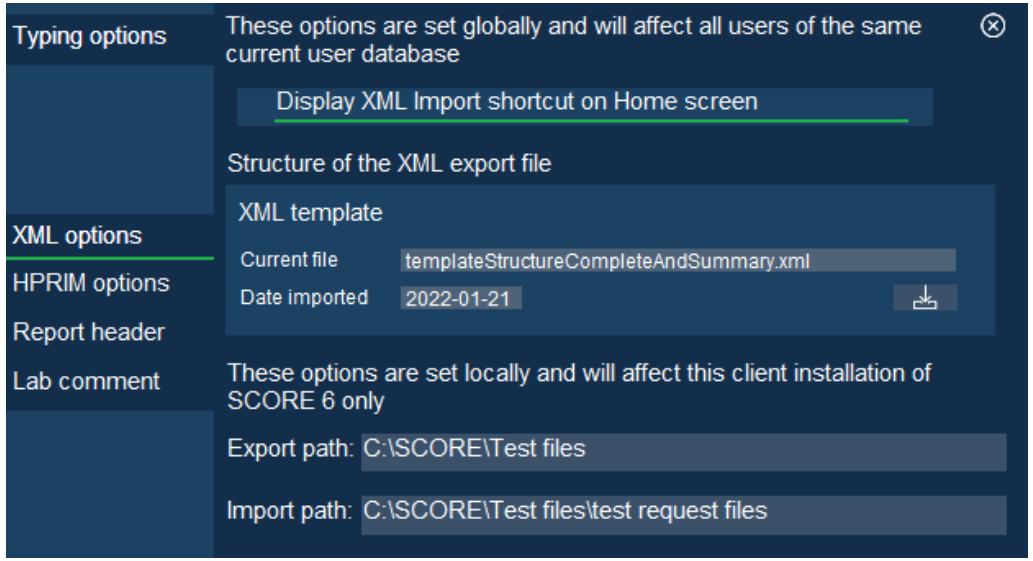
- In previous versions, the xml export was rejected if the Patient ID or Sample ID contained an unsupported character.
- Any such characters are now replaced with a “_” (Underscore)



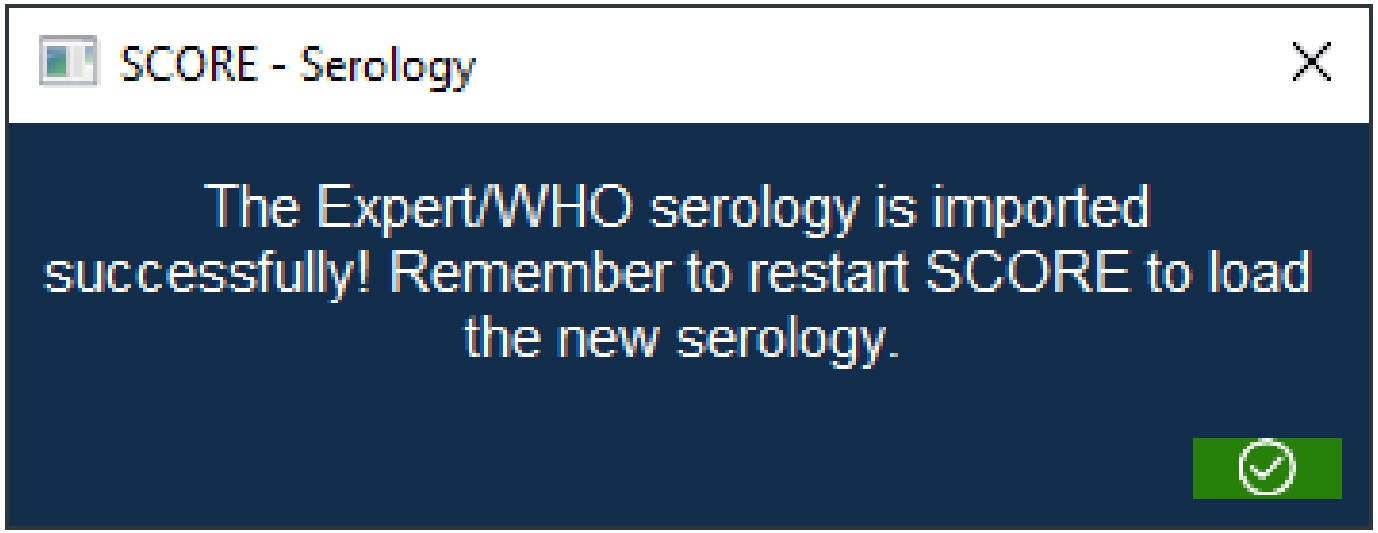
(6) Corrected rights for Basic user

- Basic users may only change **local settings**, not any **global settings**
  - Basic users can no longer **import serological equivalent file**
  - Basic users can no longer **import XML template**





(7) Added a prompt to restart SCORE 6 after import of serology list



(8) Information about manually excluded wells and/or FN/FP wells in the SCORE 6.2 XML.

Locus	Allele combination	Serology
▸ HLA-A	A*23:04	A23(9)
▾ HLA-B	Check remarks and warnings	
▾ Rare allele combinations		
▸	B*08 B*27	B8, -; -
▾ Remarks and Warnings		
Manually positive:	B9/QTYPE 11/EF42/FAM	
Manually excluded:	B8/QTYPE 11/EF42/FAM	
False negative:	K8/QTYPE 11/EF42/FAM	
False negative:	F24/QTYPE 11/EF42/FAM	
False positive:	B9/QTYPE 11/EF42/FAM	

Analysed: 2020-09-16 Support
Allele db: HLADB_3.38.0

```
- <testSet>
    <channel>FAM</channel>
    <positiveWells>P5, M5, L5, I6, K7, G7, D7, C7, P8, D9, B9</positiveWells>
    <excludedWells>B8</excludedWells>
    <crossReactiveWells/>
    <manuallyExcluded>B8</manuallyExcluded>
    <manuallyPositive>B9</manuallyPositive>
    <manuallyNegative/>
    <falsePositive>B9</falsePositive>
    <falseNegative>K8, F24</falseNegative>
  </testSet>
```

(9) Added a progress bar for xml export functionality