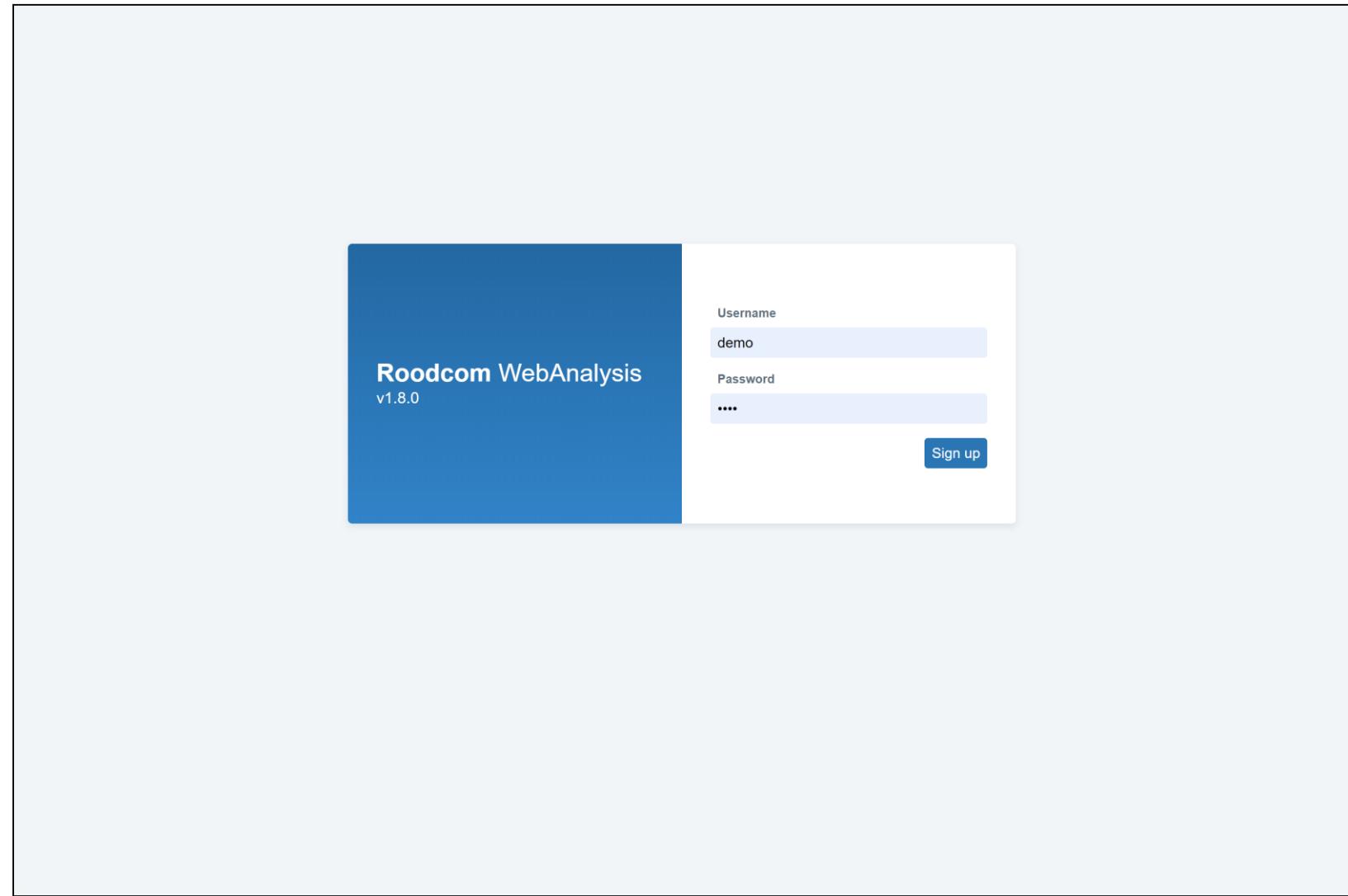


Introducing Roodcom WebAnalysis

Learn more at roodcom.nl

Roodcom WebAnalysis

- Digital PCR data analysis and management application
- Online, secured server
 - No software needed
 - Easily accessible from the browser
- Multiple users, shared collections



RC WebAnalysis

Type to search... v1.8.0

Dashboard

Welcome **Demo User**.

Number of collections
3

App version
v1.8.0

[+ Create new collection](#)

[⚙ Set personal settings](#)

| Collection name ⓘ | Description | # of projects |
|---------------------------|----------------------------------|---------------|
| Database archival samples | All samples collected. | 8 |
| Demo collection | For demonstration purposes only. | 1 |
| New manuscript | All files for new manuscript. | 3 |

Dashboard

- Collections
 - Projects
 - Files

Dashboard

- Collections
 - Projects
 - Files
- Verify project → read-only

The screenshot shows the RC WebAnalysis application interface. At the top, there is a blue header bar with the text "RC WebAnalysis > Demo collection". On the right side of the header is a search bar labeled "Type to search..." and a version indicator "v1.8.0". Below the header, the main content area has a title "Collection" followed by "Demo collection". A tooltip message "This project is verified. All its contents are read-only." is displayed over the collection title. To the right of the collection title, there are two tabs: "Projects" (which is selected) and "Overviews". Below the tabs, a table displays project information:

| Project name | Description | # of files | Last edit |
|--------------|--------------------------------------|------------|------------------|
| l2 | Demo project Variety of examples. | 6 | 2019-09-24 22:13 |

On the left side of the main content area, there is a sidebar with the following options:

- + Create new project
- grid Create new overview
- gear Edit collection properties
- arrow Return to dashboard

Projects

- Import data from QuantaSoft
 - One or several QLP
 - Complete or partly
- Show files and results
 - In a ordered list

The screenshot shows the RC WebAnalysis software interface. At the top, the navigation path is "RC WebAnalysis > Demo collection > Demo project". On the right, there is a search bar "Type to search..." and a version indicator "v1.8.0".

The main area is divided into two sections: a left sidebar for the project details and a right panel for the sample list.

Project Details (Left Sidebar):

- Project: Demo project
- Description: Variety of examples.
- Number of files / saved results: 6 / 6
- Status: Verified
- Actions: [Unverify project](#), [Return to collection](#)

Sample List (Right Panel):

The sample list is displayed in "List view" mode, with tabs for "List view", "Merged view", and "Plate view".

| File name | Channel 1 | Channel 2 | Format | Result | Droplets |
|----------------------|--------------|-----------|--------|--------|----------|
| I ₂ | chromosome 1 | reference | CNV2 | 1.99 | 14272 |
| Healthy PBL | mutation | wild-type | FA | 49.3% | 14665 |
| Heterozygous carrier | mutation | wild-type | FA | n/a | 15277 |
| Homozygous wild-type | mutation | wild-type | FA | n/a | 15602 |
| Negative control | mutation | wild-type | FA | 59.8% | 11956 |
| PBMC control | delta_D | reference | TCF | 2.9% | 12859 |
| Tumor | mutation | wild-type | FA | DP | DP |

Buttons at the bottom of the list panel include "Show results" and "Export". A "Table settings" button is located in the bottom right corner of the list panel.

Projects

- Import data from QuantaSoft
 - One or several QLP
 - Complete or partly
- Show files and results
 - In a ordered list
 - Merged per file name and format

The screenshot shows the RC WebAnalysis software interface. At the top, the navigation path is "RC WebAnalysis > Demo collection > Demo project". On the right, there is a search bar and a version indicator "v1.8.0". The main area is divided into two sections: a left sidebar for the project details and a right panel for the merged view data.

Project Details (Left Sidebar):

- Project: Demo project
- Description: Variety of examples.
- Number of files / saved results: 6 / 6
- Status: Verified
- Actions: Unverify project (red link), Return to collection (blue link)

Merged View Data (Right Panel):

| Sample ID | Fractional Abundance mutation wild-type | T-cell fraction delta_D reference | Copy number chromosome 1 reference |
|----------------------|---|-----------------------------------|------------------------------------|
| Healthy PBL | 1.99 | | |
| Heterozygous carrier | 49.3% | | |
| Homozygous wild-type | n/a | | |
| Negative control | n/a | | |
| PBMC control | 59.8% | | |
| Tumor | 2.9% | | |

Projects

- Import data from QuantaSoft
 - One or several QLP
 - Complete or partly
- Show files and results
 - In a ordered list
 - Merged per file name and format
 - As in the plate

RC WebAnalysis > Demo collection > Demo project

Type to search... v1.8.0 ➔

Project **Demo project**

Description Variety of examples.

Number of files / saved results 6 / 6

Status Verified

[✖ Unverify project](#)

[🕒 Return to collection](#)

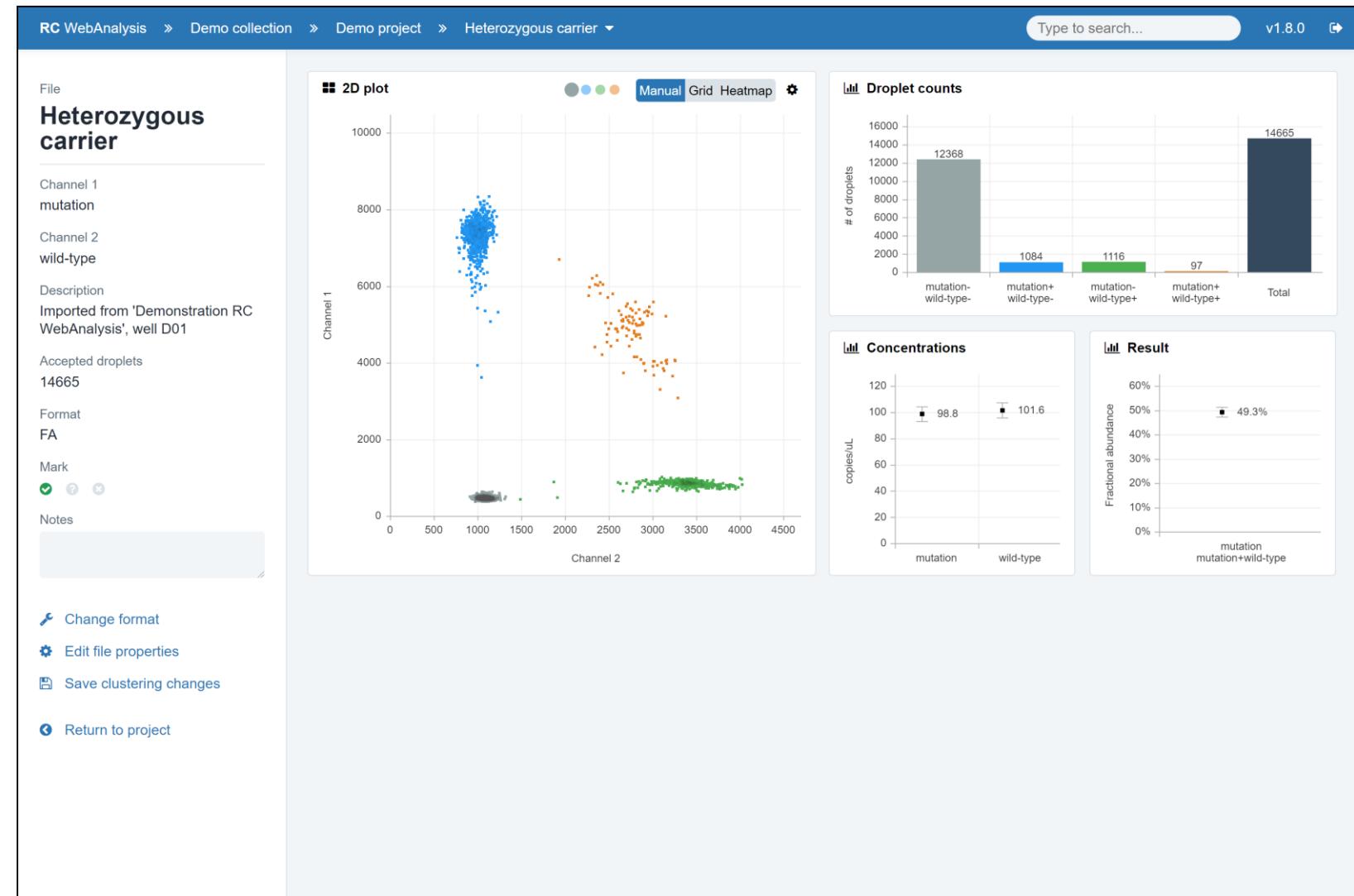
List view Merged view Plate view

01

| A | Negative control mutation wild-type | n/a FA |
|---|---|--------------|
| B | Homozygous wild-type mutation wild-type | n/a FA |
| C | Tumor mutation wild-type | 2.9% FA |
| D | Heterozygous carrier mutation wild-type | 49.3% FA |
| E | Healthy PBL chromosome 1 reference | 1.99 CNV2 |
| F | PBMC control delta_D reference | 59.8% TCF |
| G | | |
| H | | |

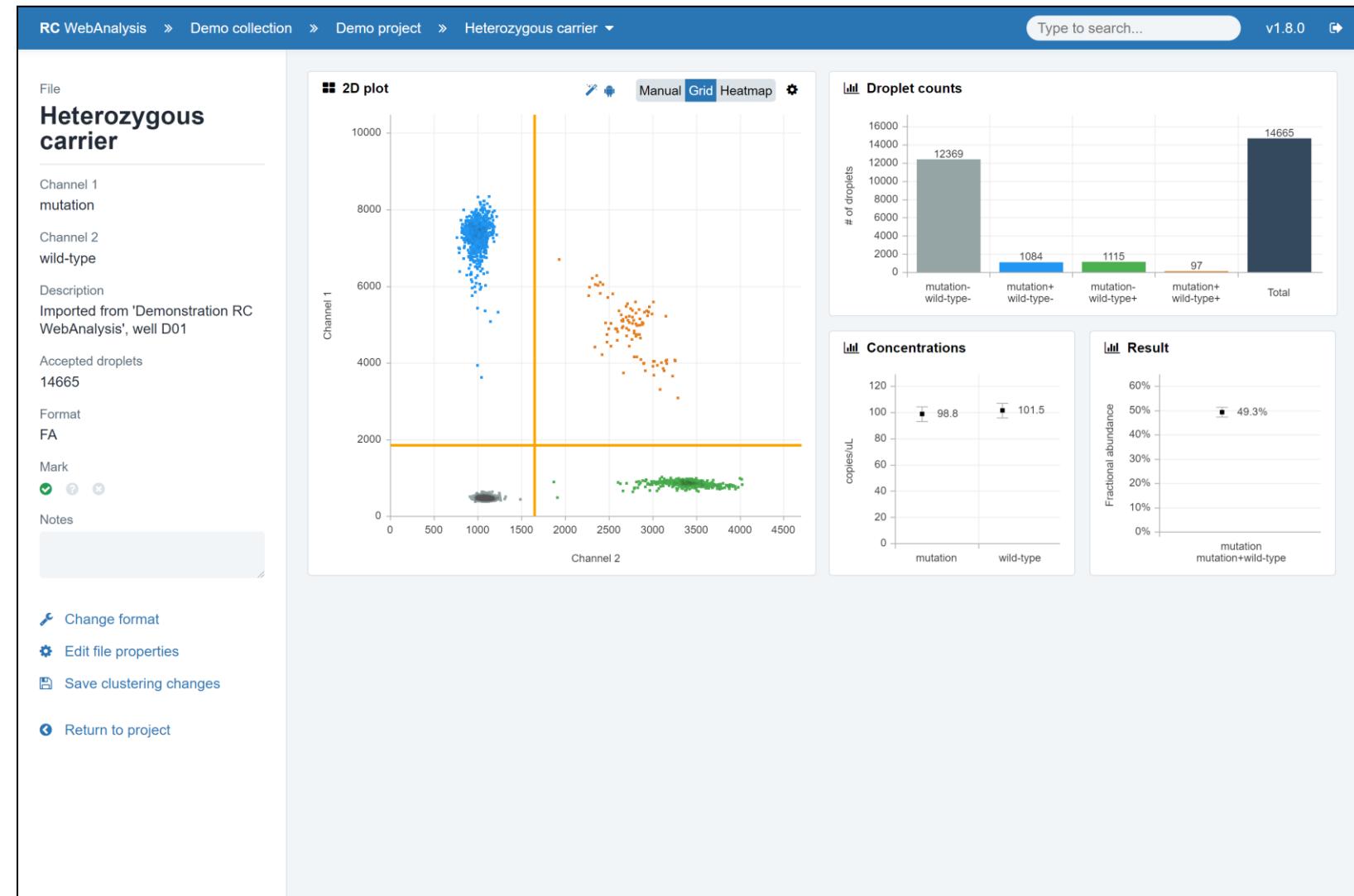
Files

- Data copied from original files
 - Template data (names, assays)
 - Plate data (droplets, clustering)
- Clustering
 - Manual (lasso, grid)



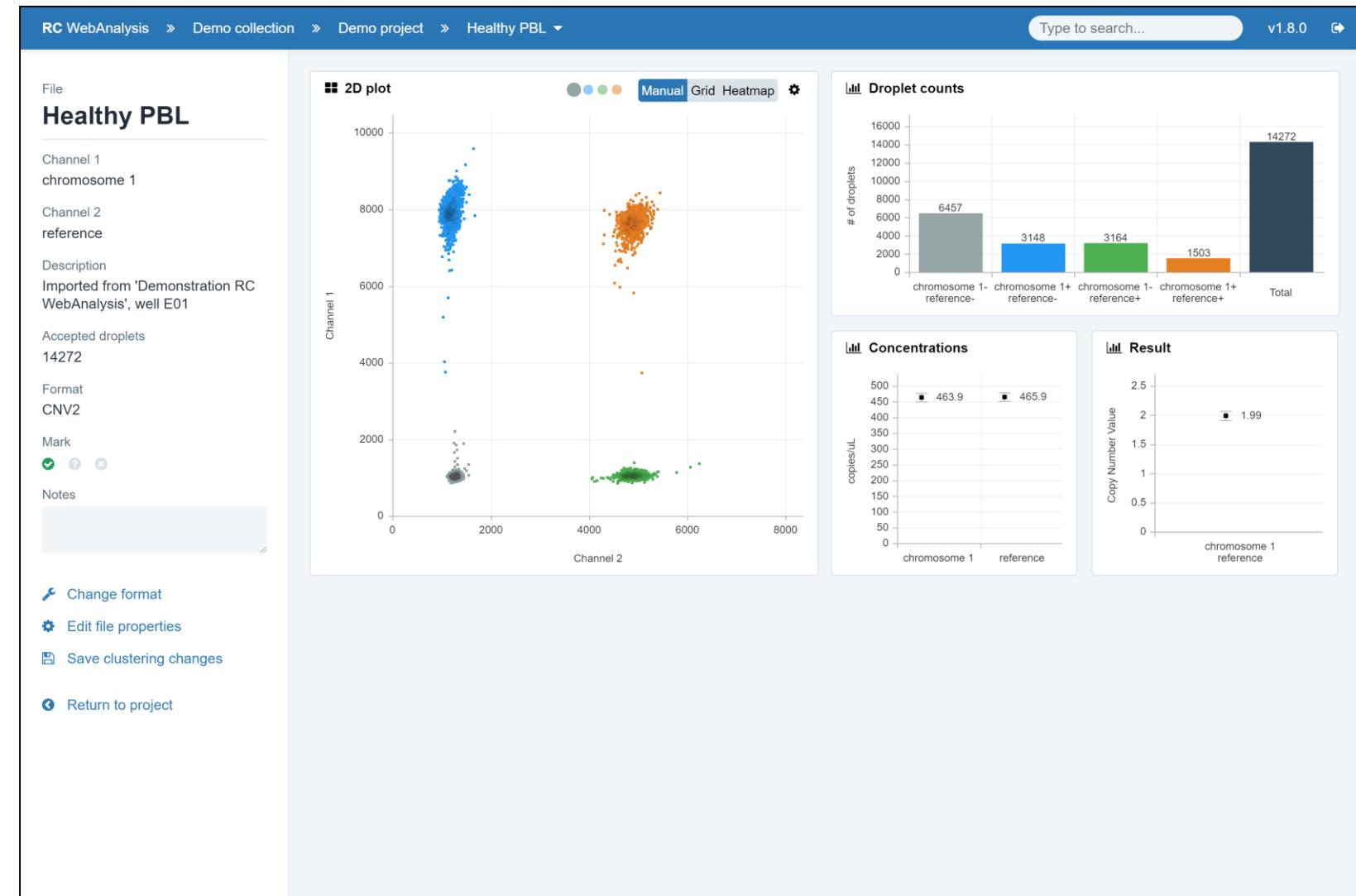
Files

- Data copied from original files
 - Template data (names, assays)
 - Plate data (droplets, clustering)
- Clustering
 - Manual (lasso, grid)
 - Automatic
- Calculations
 - Droplet counts
 - Concentration
 - Result according to format



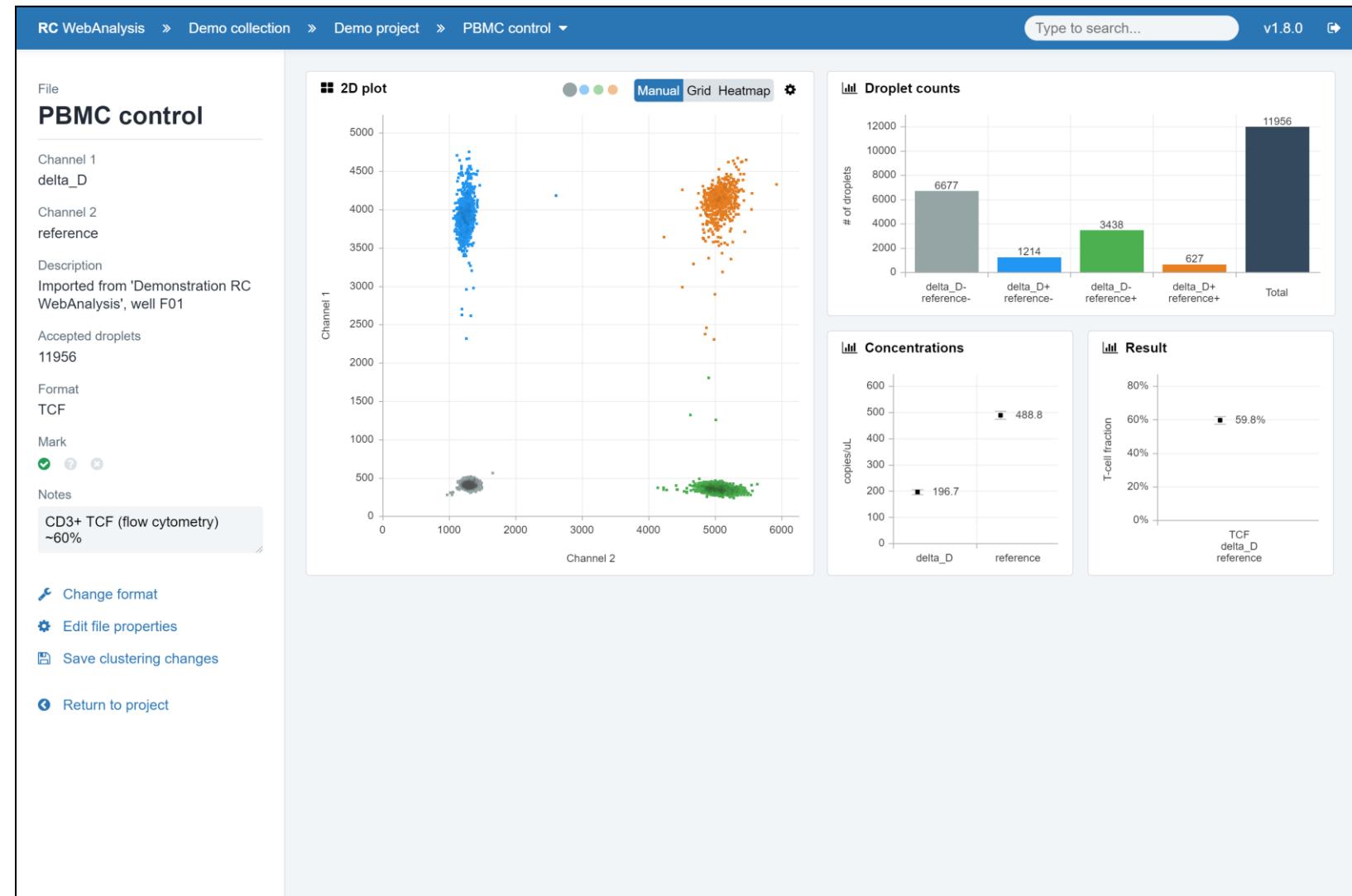
Formats

- Classic duplex formats
 - Ratio
 - Copy Number Value (CNV)
 - Fractional Abundance (FA)



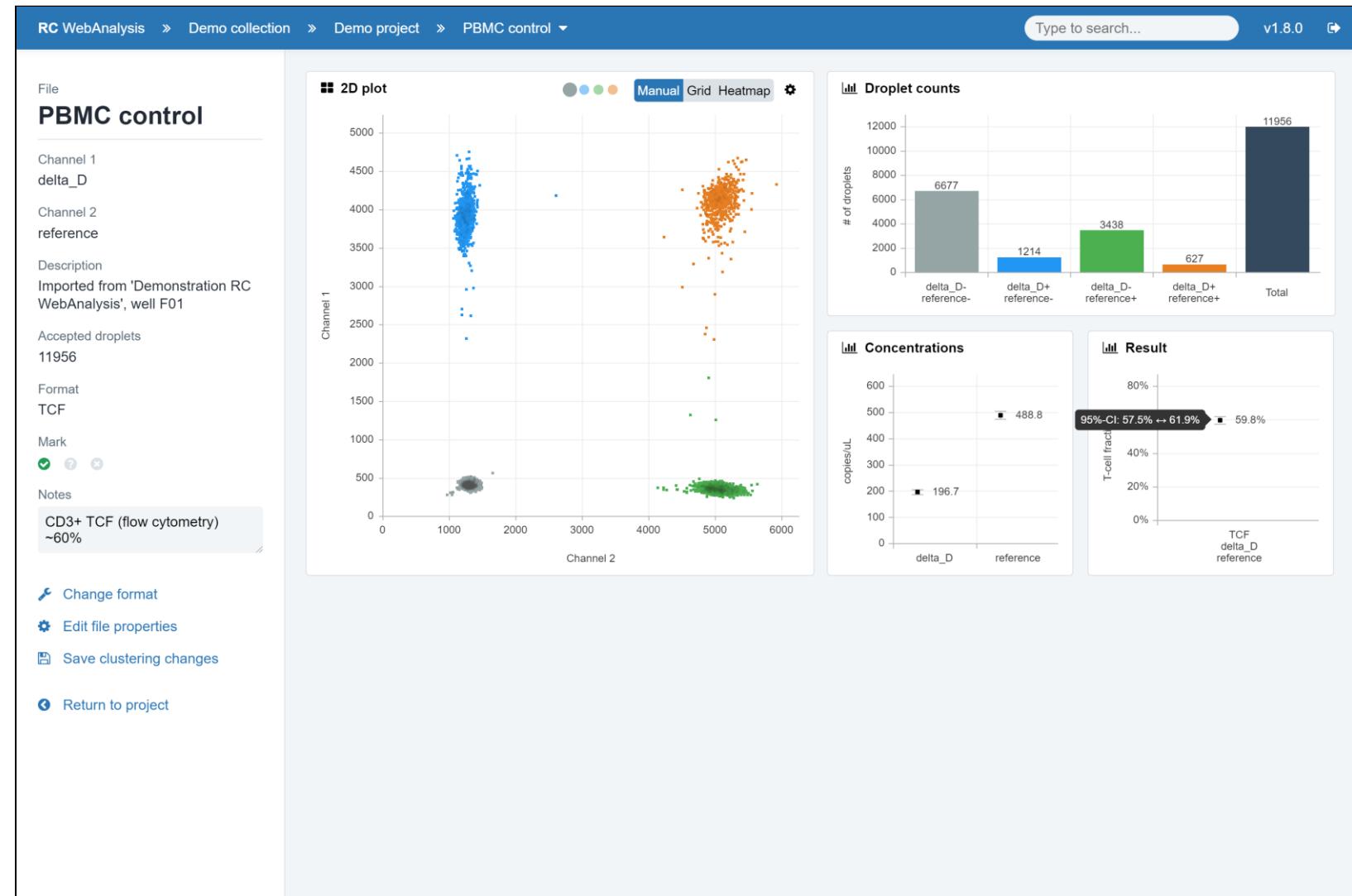
Formats

- Classic duplex formats
 - Ratio
 - Copy Number Value (CNV)
 - Fractional Abundance (FA)
- Flexibility for new formats
 - E.g. T-cell fraction



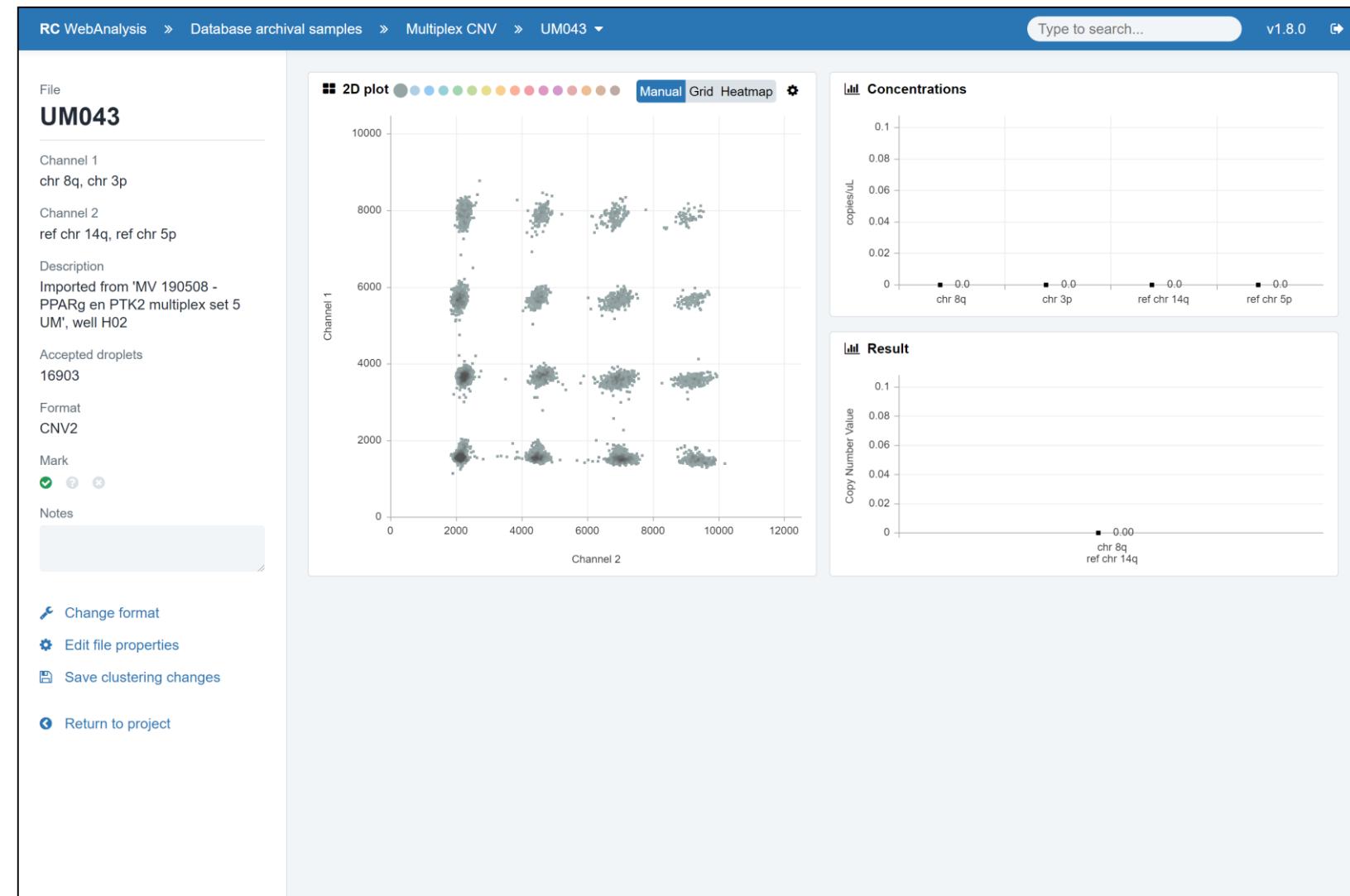
Formats

- Classic duplex formats
 - Ratio
 - Copy Number Value (CNV)
 - Fractional Abundance (FA)
- Flexibility for new formats
 - E.g. T-cell fraction
- Confidence intervals



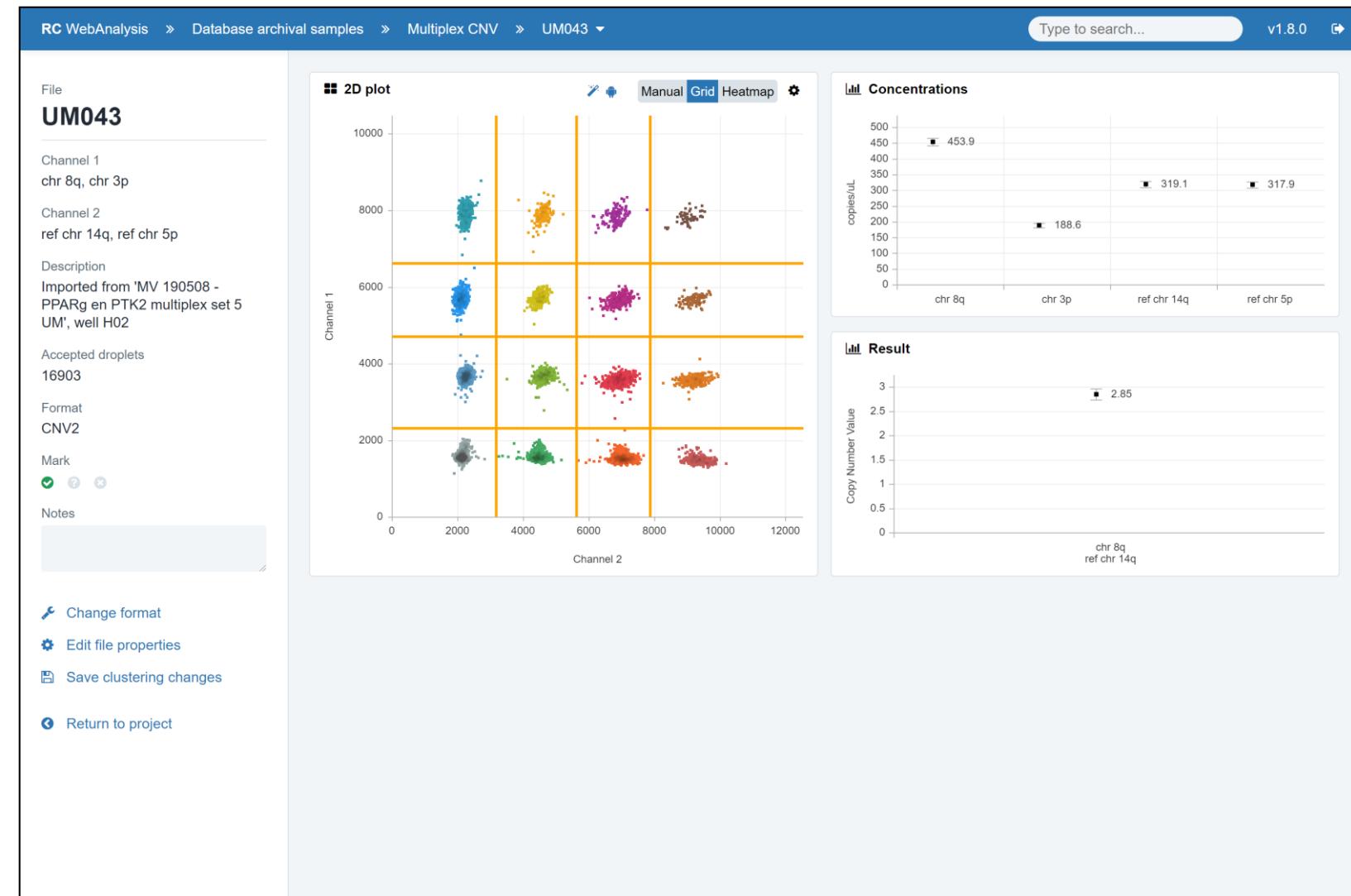
Multiplexing

- Dedicated analysis features



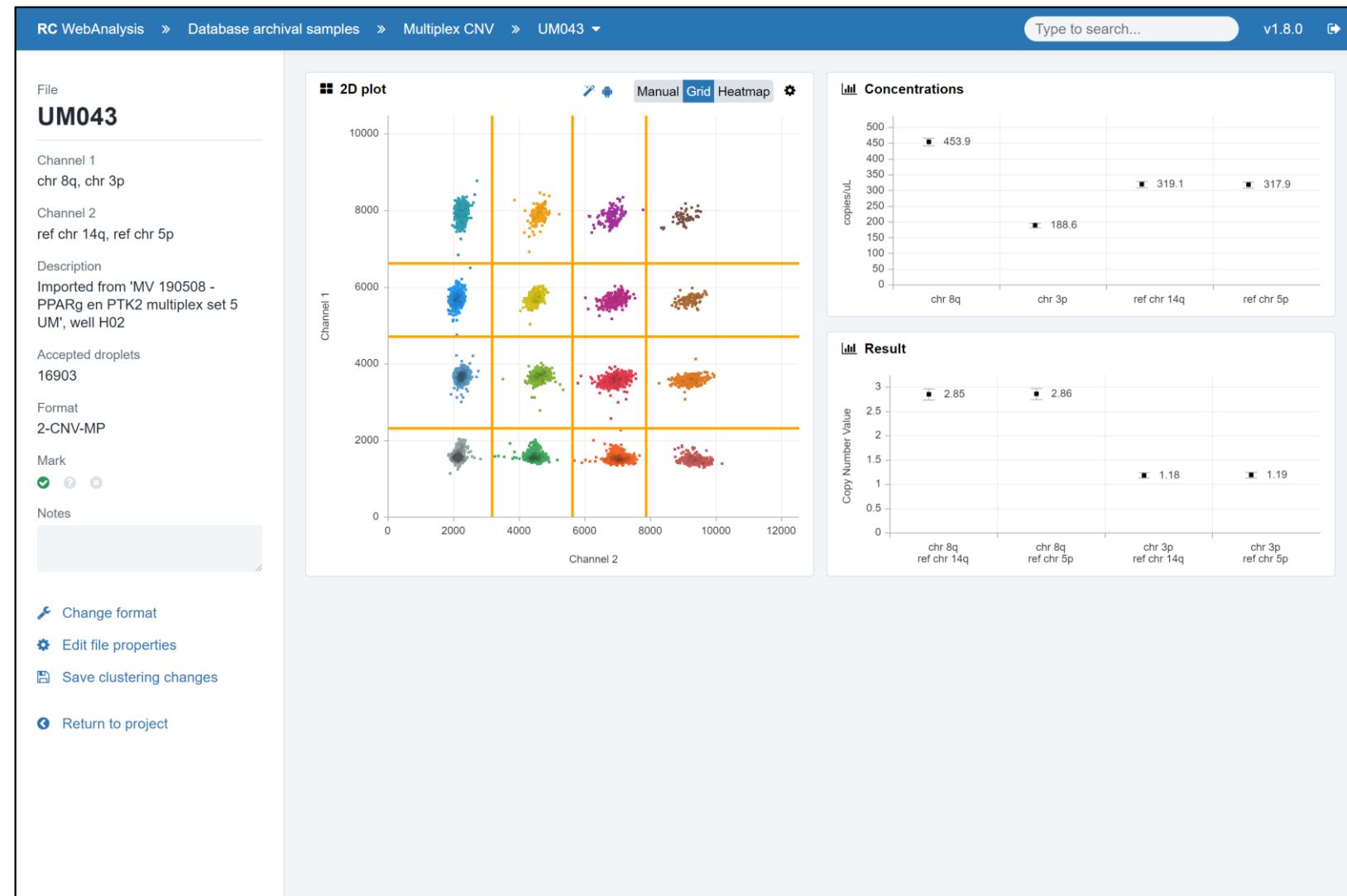
Multiplexing

- Dedicated analysis features
 - Automatic clustering



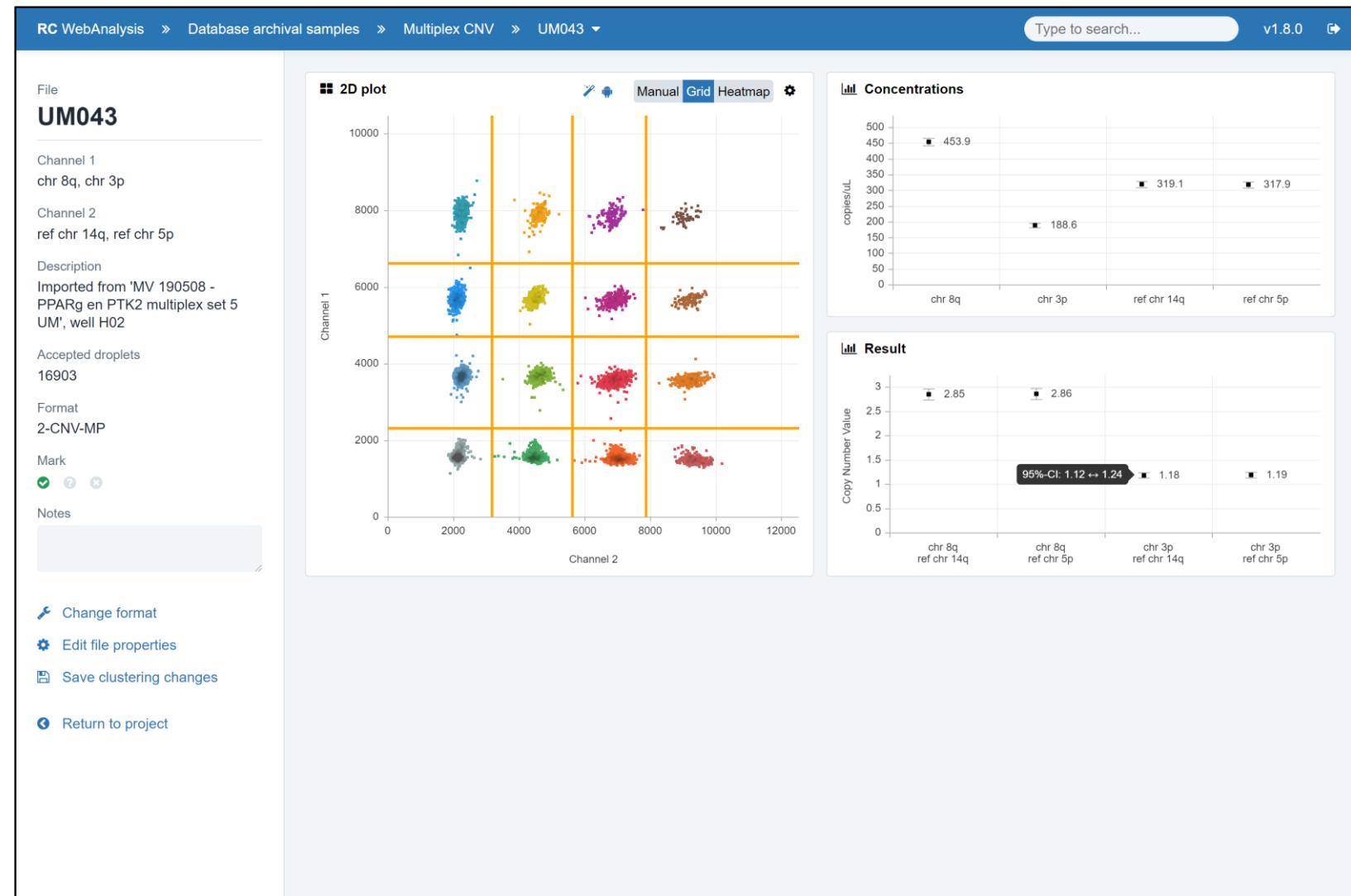
Multiplexing

- Dedicated analysis features
 - Automatic clustering
- Multiplex formats
 - More calculations from one experiment



Multiplexing

- Dedicated analysis features
 - Automatic clustering
- Multiplex formats
 - More calculations from one experiment
- Confidence intervals

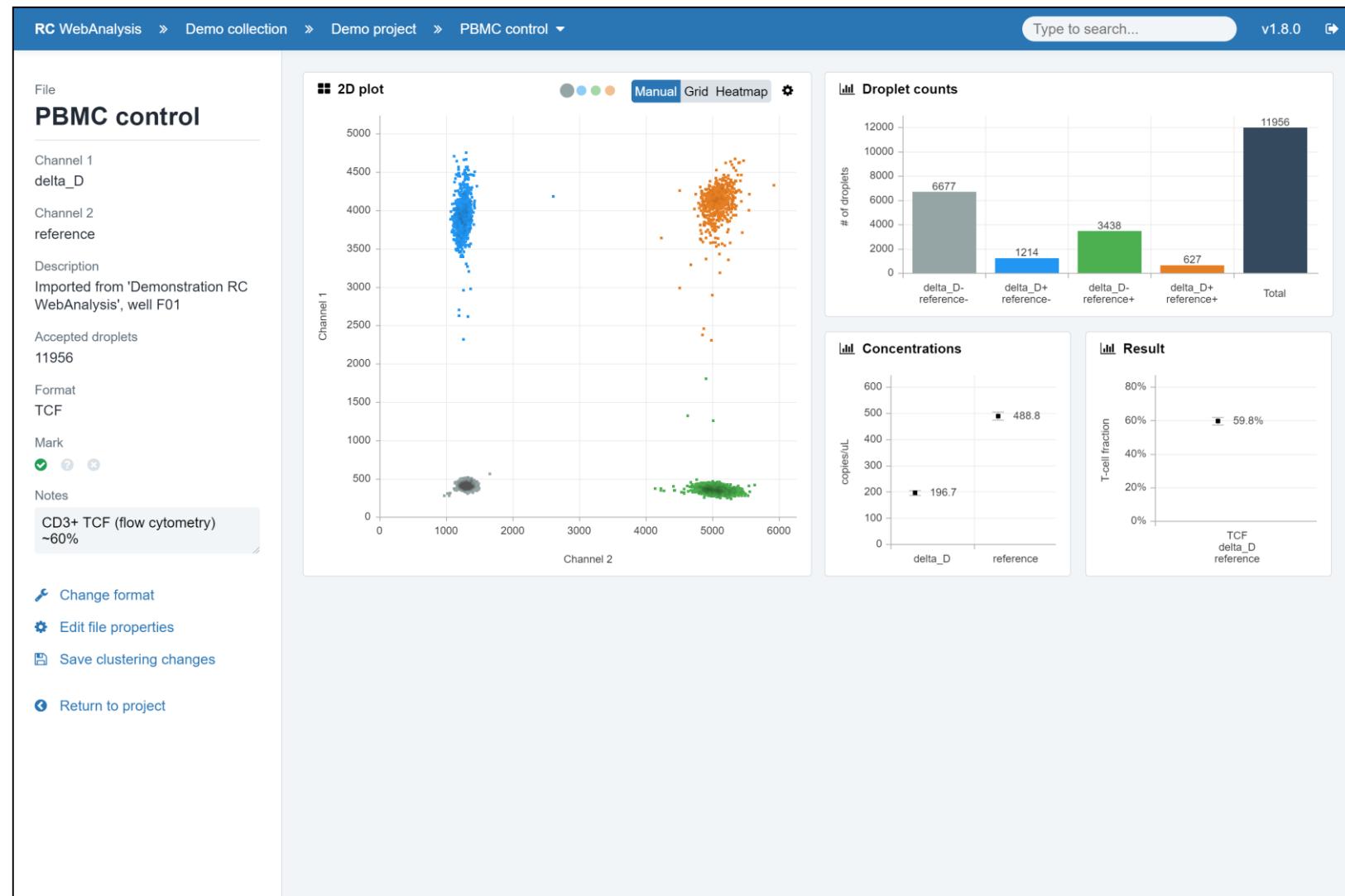


Data management

- Result security
 - Verified / read-only
 - Audit trail
- Database
 - Old and new experiments
 - Flexibility of collections, projects

Data management

- Result security
 - Verified / read-only
 - Audit trail
- Database
 - Old and new experiments
 - Flexibility of collections, projects
 - Annotations



Data management

- Result security
 - Verified / read-only
 - Audit trail
- Database
 - Old and new experiments
 - Flexibility of collections, projects
 - Annotations
 - Searchable

The screenshot shows the RC WebAnalysis software interface. At the top, there is a header bar with the title "RC WebAnalysis", the project name "UM043", the version "v1.8.0", and a refresh button. Below the header, on the left, is a search bar containing "UM043" and a message indicating "Number of files / saved results 3 / 6". On the right, there is a table titled "List view" showing six rows of results. The columns are: "File name", "Channel 1", "Channel 2", "Format", "Result interpretation", "Result", and "Droplets". The "Result" column contains numerical values (e.g., 42.8%, n/a, 2.85, 2.86, 1.18, 1.19) and colored status indicators (green for 42.8%, n/a, 2.85, 2.86; red for 1.18, 1.19). The "Droplets" column contains green checkmarks for DP and MP. At the bottom of the table, there are buttons for "Show results" and "Export", and a "Table settings" link.

| File name | Channel 1 | Channel 2 | Format | Result interpretation | Result | Droplets |
|-----------|----------------|-------------------------|----------|---|--------|----------|
| UM043 | GNA11 mut | GNA11 wt | FA | Fractional Abundance GNA11 mut GNA11 wt | 42.8% | 15744 DP |
| UM043 | GNAQ mut | GNAQ wt | FA | Fractional Abundance GNAQ mut GNAQ wt | n/a | 15650 DP |
| UM043 | chr 8q, chr 3p | ref chr 14q, ref chr 5p | 2-CNV-MP | Copy Number chr 8q / ref chr 14q | 2.85 | 16903 MP |
| UM043 | chr 8q, chr 3p | ref chr 14q, ref chr 5p | 2-CNV-MP | Copy Number chr 8q / ref chr 5p | 2.86 | 16903 MP |
| UM043 | chr 8q, chr 3p | ref chr 14q, ref chr 5p | 2-CNV-MP | Copy Number chr 3p / ref chr 14q | 1.18 | 16903 MP |
| UM043 | chr 8q, chr 3p | ref chr 14q, ref chr 5p | 2-CNV-MP | Copy Number chr 3p / ref chr 5p | 1.19 | 16903 MP |

Data management

- Result security
 - Verified / read-only
 - Audit trail
- Database
 - Old and new experiments
 - Flexibility of collections, projects
 - Annotations
 - Searchable
- Exportable
 - Specific or complete
 - All results + confidence intervals

RC WebAnalysis

UM043 v1.8.0

Search UM043

Number of files / saved results 3 / 6

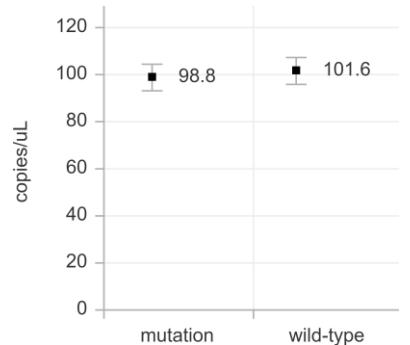
List view Merged view

| <input checked="" type="checkbox"/> File name | Channel 1 | Channel 2 | Format | Result interpretation | Result | Droplets |
|---|----------------|-------------------------|----------|---|--------|----------|
| <input checked="" type="checkbox"/> UM043 | GNA11 mut | GNA11 wt | FA | Fractional Abundance GNA11 mut GNA11 wt | 42.8% | 15744 DP |
| <input checked="" type="checkbox"/> UM043 | GNAQ mut | GNAQ wt | FA | Fractional Abundance GNAQ mut GNAQ wt | n/a | 15650 DP |
| <input checked="" type="checkbox"/> UM043 | chr 8q, chr 3p | ref chr 14q, ref chr 5p | 2-CNV-MP | Copy Number chr 8q / ref chr 14q | 2.85 | 16903 MP |
| <input checked="" type="checkbox"/> UM043 | chr 8q, chr 3p | ref chr 14q, ref chr 5p | 2-CNV-MP | Copy Number chr 8q / ref chr 5p | 2.86 | 16903 MP |
| <input checked="" type="checkbox"/> UM043 | chr 8q, chr 3p | ref chr 14q, ref chr 5p | 2-CNV-MP | Copy Number chr 3p / ref chr 14q | 1.18 | 16903 MP |
| <input checked="" type="checkbox"/> UM043 | chr 8q, chr 3p | ref chr 14q, ref chr 5p | 2-CNV-MP | Copy Number chr 3p / ref chr 5p | 1.19 | 16903 MP |

Show results Export Table settings

Data management

- Result security
 - Verified / read-only
 - Audit trail
- Database
 - Old and new experiments
 - Flexibility of collections, projects
 - Annotations
 - Searchable
- Exportable
 - Specific or complete
 - All results + confidence intervals
 - High-quality plots



Overview

Roodcom WebAnalysis

- New digital PCR analysis environment
- Online, no software to be installed
- Flexible data analysis and management
- Duplex and multiplex support
- For new and archival data

Contact us for demo license: contact@roodcom.nl