# Export ddPCR data

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*This workflow describes how to transfer raw ddPCR data from GLGC's computer to the shared SARS-CoV-2 folder located on OneDrive.*

It describes:

* How to export the raw ddPCR (amplitude and cluster) data on your USB key
* How to export the metadata on your USB keep
* How to copy the data from your USB key to OneDrive

### Export Amplitude and Cluster Data on your USB key

*Computer located at the GLGC in the BioRad QX200 Droplet Digital PCR System area*

1. Open QuantaSoft to load your run information
2. Load your plate results.  
    - Click on **Load** (Figure 1 #1)  
    - Select the run folder  
    - Double click on the only file that appears in the folder

**Figure 1**

1. If the plate was already loaded, make sure you are on the tab “Setup” (Figure 2 #1)
2. Click on "Option" (Figure 1 #2))
3. Select all the wells you want to process (Figure 2 #2)

* If some wells are fillers, do not select them, it will avoid R errors later

1. Click on “Export Amplitude and Cluster Data” (Figure 2 #3)

**Figure 2**

1. While in the QuantaSoft dialog window: Create a folder on your USB key to store the ddPCR amplification data. The folder has to be named as followed:

* **Year** dash **Month** dash **Day** space **Target(s)**  
  Good examples: 2021-2-23 N1N2 or 2020-12-3 N1N2  
  Bad examples: 2021-02-23 N1N2 or 20-12-3

1. While in the QuantaSoft dialog window: Open the folder freshly created and click on “Select Folder” (Figure 2).

**Figure 2**

### Export metadata

*During the process of the ddPCR data, R will associate to each well to the sample name and the target ran. This information is stored in a .csv file located in the folder containing the run-RAW ddPCR data.*

1. Access the folder that contains your run raw data. A shortcut should be accessible from the Desktop (Figure 3), otherwise, the pathway to access your run is:

* Computer > Windows7\_OS (C:) > QuantaLife > Data > YOUR RUN ID FOLDER

**Figure 3**

1. Locate the .csv file (Figure 4). THERE IS ONLY ONE. Copy and paste this file in your USB freshly created folder.

**Figure 4**

### Transfer the data to the OneDrive SARS-CoV-2 folder

1. Copy and paste the whole folder from your USB key to the directory **ddPCR data**

* SARS-CoV-2 > DATA > ddPCR data

### Notes

QuantaSoft exports one file per reaction. All files contain 3 columns:

* Column 1 displays the amplification detected using channel 1 (FAM) within each droplet (1 droplet = 1 row)
* Column 2 displays the amplification detected using the channel 2 (HEX) within each droplet
* Column 3 shows the cluster to which the droplet has been classified: negative droplet, FAM-positive droplet, HEX-positive droplet, or FAM/HEX positive droplet
* If you run a FAM or HEX singleplex assay, the column 2 or 1 will be emptied, respectively.

### Troubleshooting

* **I cannot open the shortcut to access my folder's run**  
  **I cannot copy/paste**

1. Open Windows Task Manager  
2. Click on the tab \*\*Processes\*\*  
3. Click on \*\*explorer.exe\*\*  
4. Click on \*\*End Process\*\*  
 > All the icons on the Desktop will disappear, but that is okay  
5. Click on the tab \*\*Applications\*\*  
6. Click on \*\*New Task...\*\*  
7. Write \*\*explorer.exe\*\* and press \*\*enter\*\*  
8. Done!