

Written by Štefan Šicko

Wednesday, 20 July 2022 07:38 - Last Updated Wednesday, 20 July 2022 07:49

Monitoring of wastewater in the Slovak Republic for the presence of SARS-CoV-2 virus was launched on 02.05. 2021 (i.e. 18th calendar week) and it is performed regularly on a weekly basis in each region of the Slovak Republic. From January 2022, we gradually started the second phase of the wastewater monitoring project, where monitoring is being expanded in several districts. So far, 61 WWTPs have participated in the Slovak Republic.

The presence of virus in wastewater samples is determined by RT-PCR and digital dd-PCR. Samples are taken in cooperation with individual operators of wastewater treatment plants, regional public health authorities and investigated in the NRC at the Public Health Authority of Slovak Republic.

By the 27th calendar week, a total of 1618 samples were examined by a qualitative and quantitative method, of which 1577 (97,47 %) samples were positive or with limit value.

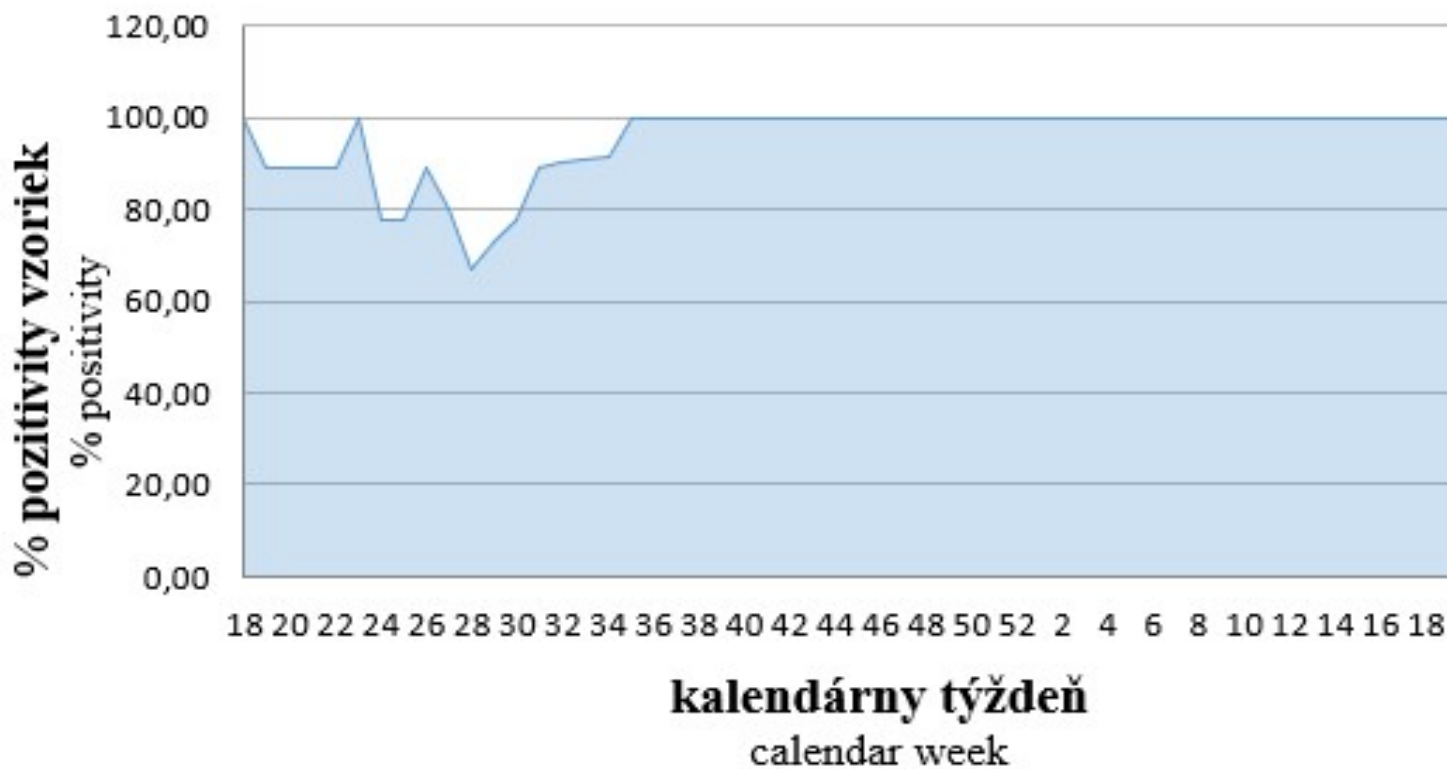
On the 27th calendar week of 2022, the SARS-CoV-2 virus was detected in 52 examined samples.

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Časový vývoj positivity vzoriek odpadových vôd

Development of WW sample positivity rate in time



On the 27th of July, SARS-CoV-2 RNA was detected in wastewater samples. We noticed a slight increase in quantitative tests, which express the

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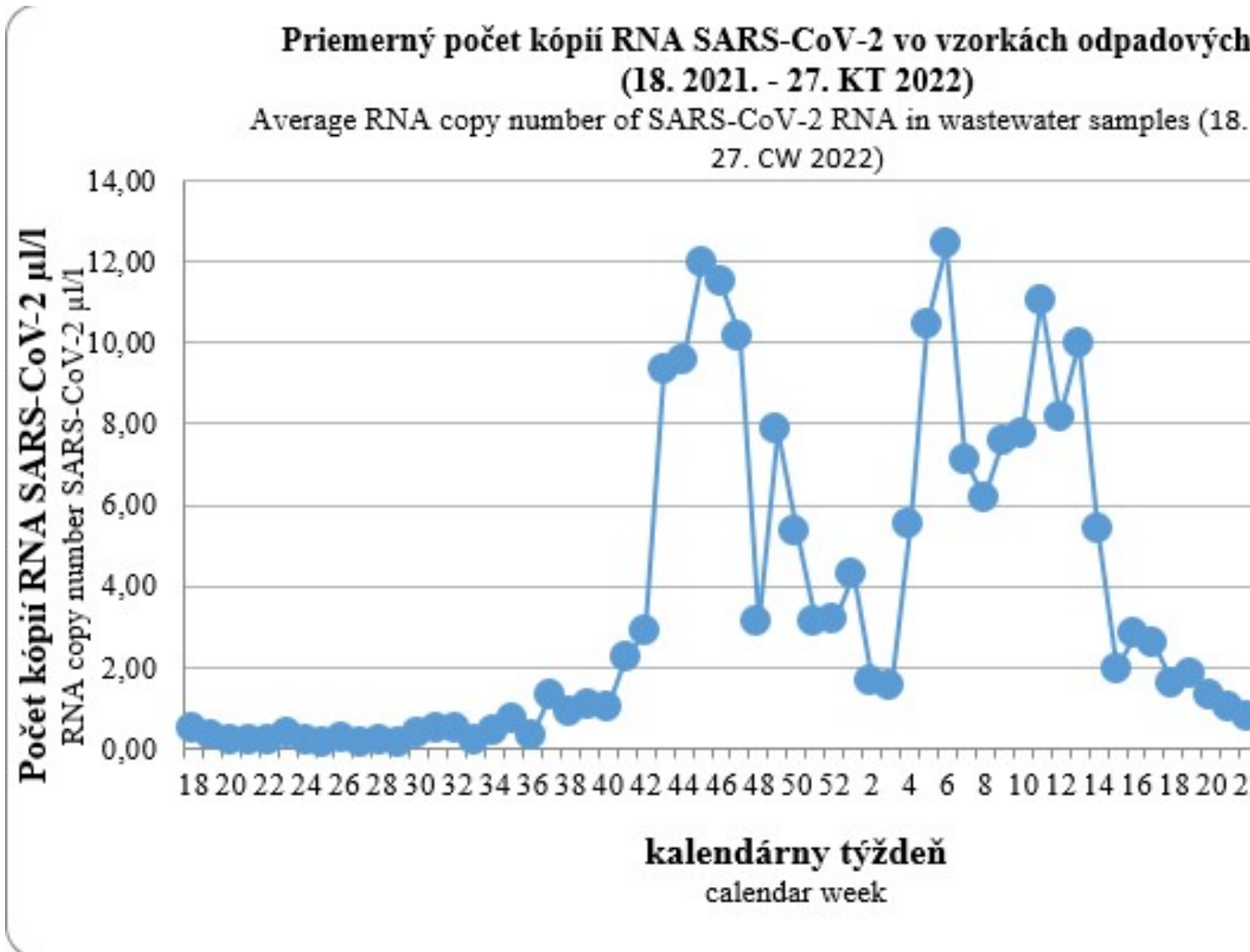
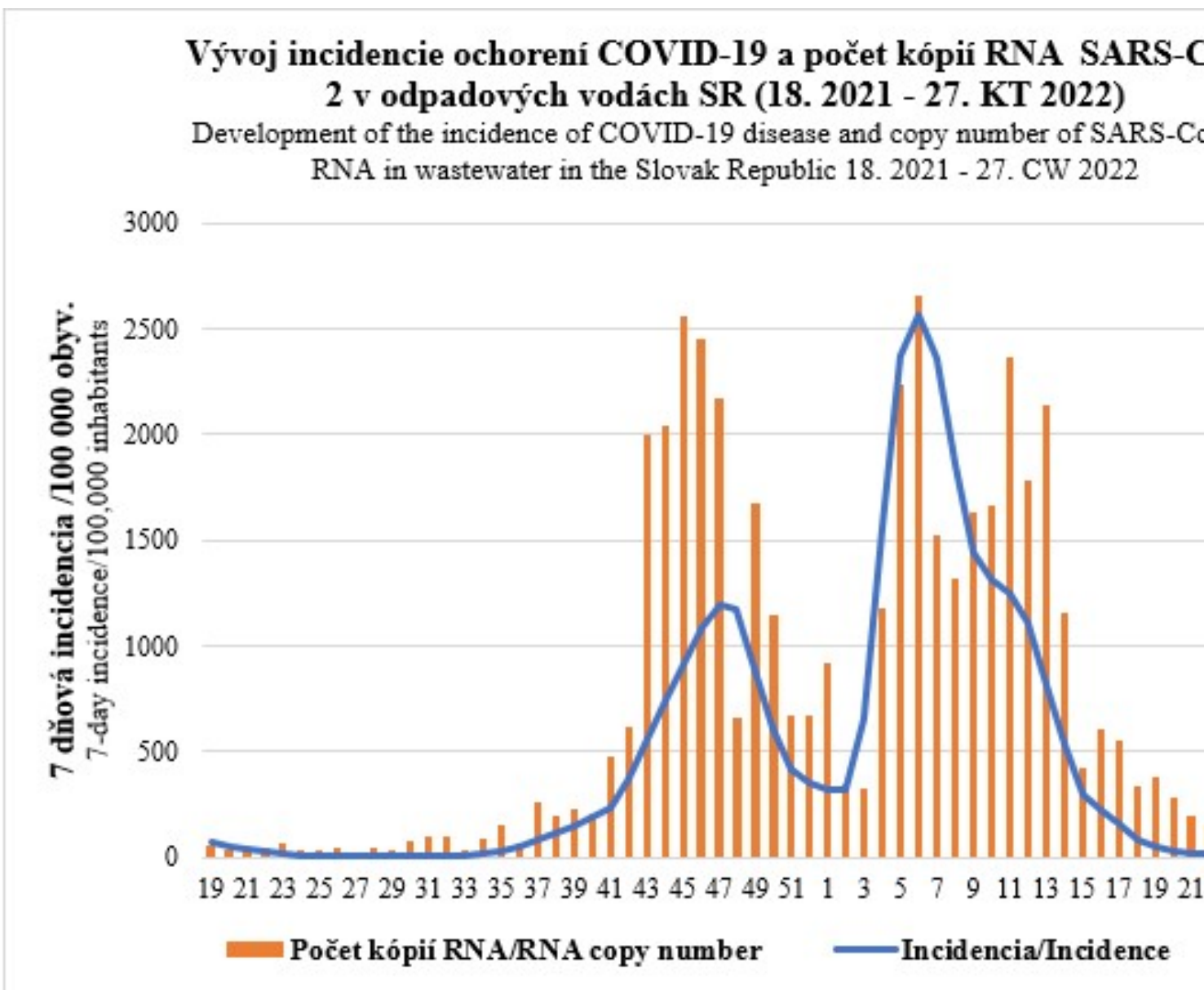


Figure 17: Average RNA copy number of SARS-CoV-2 in wastewater samples in

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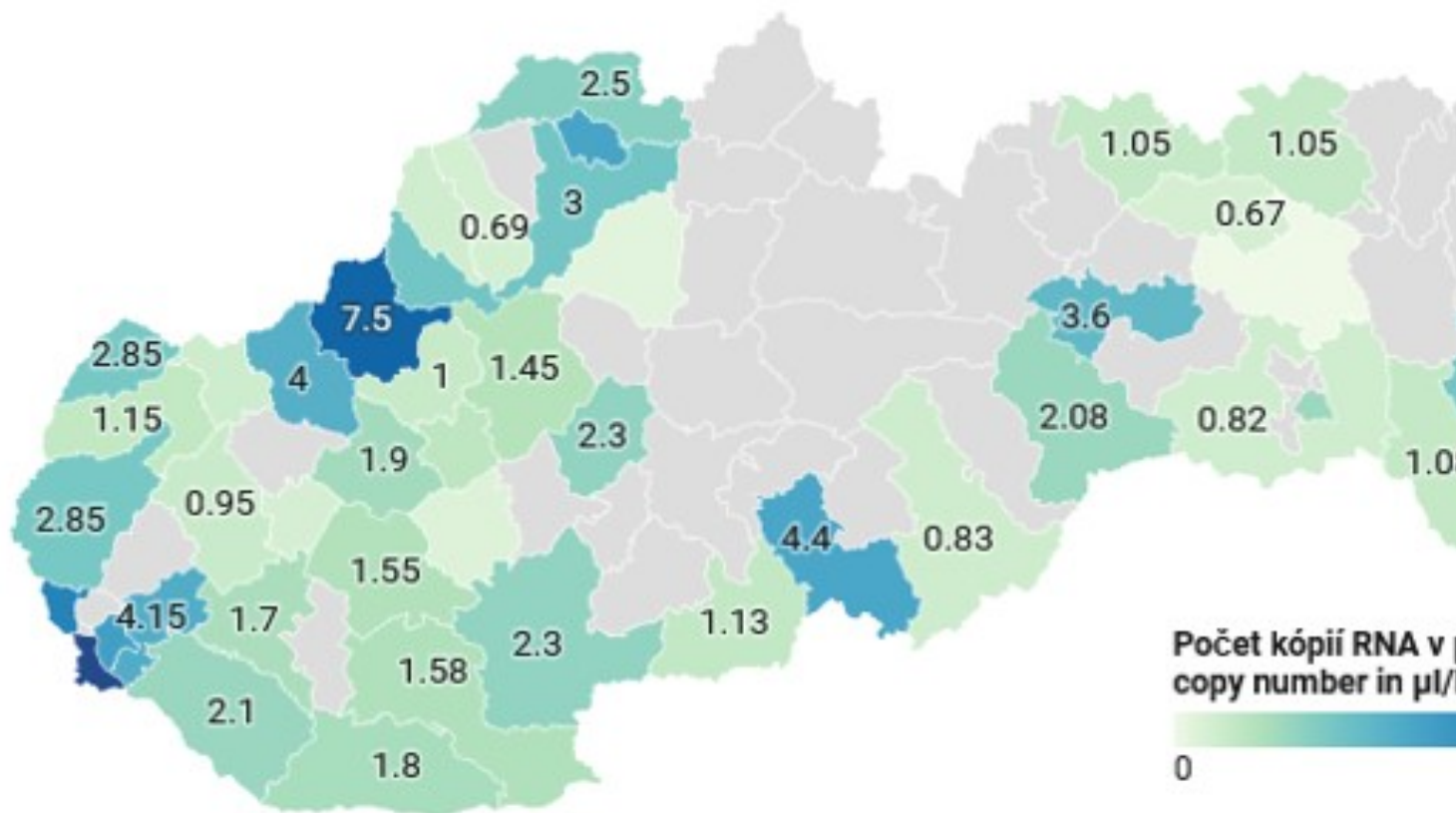
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SARS-CoV-2 v odpadových vodách v krajoch - 27. KT SARS-CoV-2 in wastewater in regions - 27th week 2022



Analyzované pomocou ddPCR (analyzed by ddPCR µl/l); Priemerný počet kópií v SR 2,23 µl/l (average copy number in SR 2,23 µl/l)

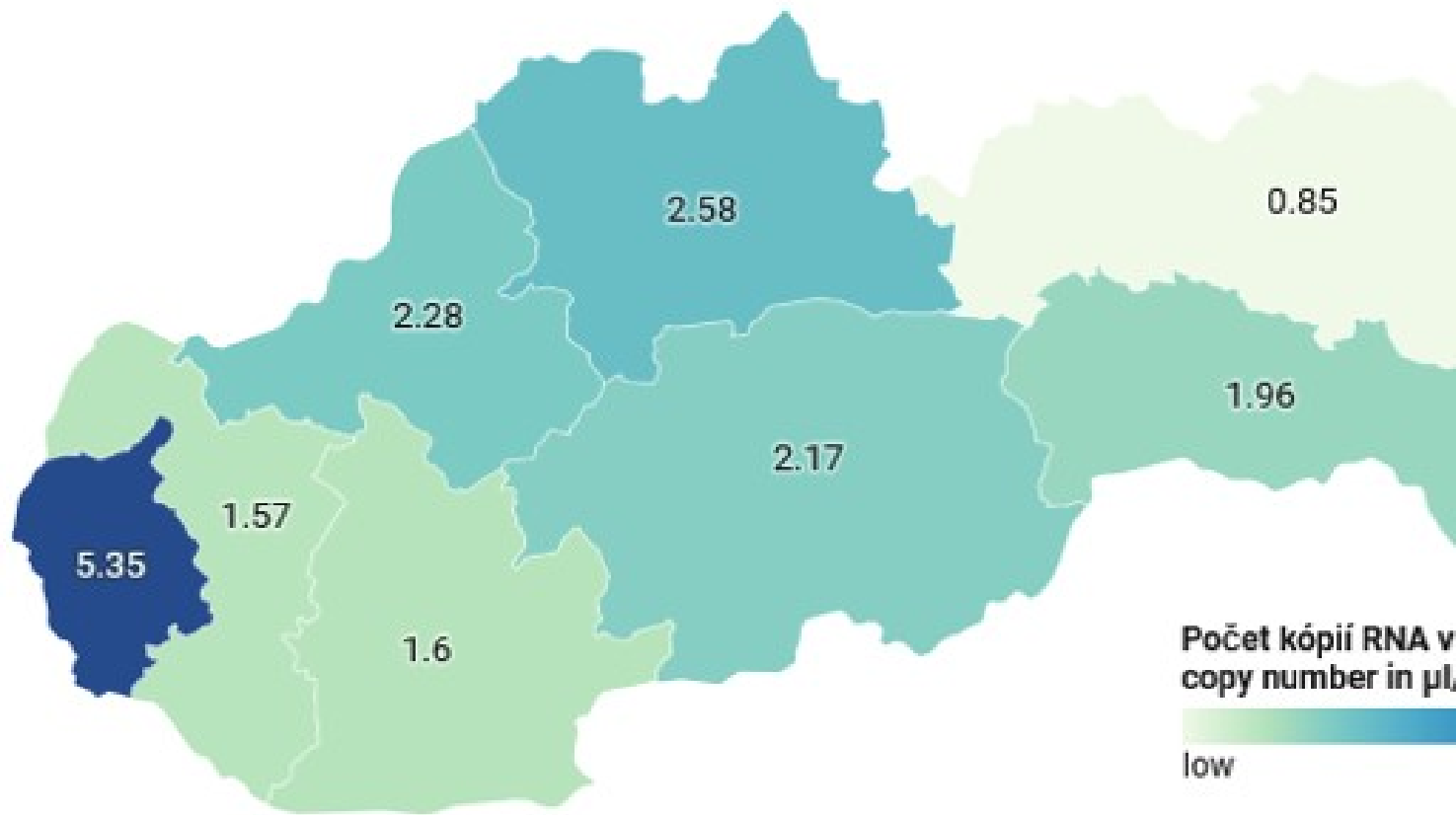
Source: NRC pre prevenciu a kontrolu NN, RÚVZ Trenčín, NRC pre mikrobiológiu ŽP ÚVZ SR Bratislava • Map created with [Datawrapper](#)

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SARS-CoV-2 v odpadových vodách v krajoch - 27. KT

SARS-CoV-2 in wastewater in regions - 27th week 2022



Analyzované pomocou ddPCR (analyzed by ddPCR μl/l); Priemerný počet kópií v SR 2,23 μl/l (average in SR 2,23 μl/l)

Source: NRC pre prevenciu a kontrolu NN, RÚVZ Trenčín, NRC pre mikrobiológiu ŽP ÚVZ SR Bratislava - [Get the data](#)
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Conclusion: The average number of copies of SARS-CoV-2 in wastewater in the Slovak Republic was 2.23 μl/l.