

CONCLUSION

of the Dissertation Council for the group of specialties/educational programs 6D060600, 8D05301—Chemistry; 6D072000, 8D07104—Chemical Technology of Inorganic Substances; 8D07102—Chemical Engineering; 6D072100, 8D07105—Chemical Technology of Organic Substances; and 6D73900, 8D07101—Petrochemistry at Al-Farabi Kazakh National University on the dissertation of Bektassov Marat Aidarly titled “Development of comprehensive methods for organic compounds determination in water” submitted for the degree of Doctor of Philosophy (PhD) in the educational program 8D05301—“Chemistry” (Protocol No. 61 dated March 4, 2026).

1. Based on the results of the defense and secret voting, the Dissertation Council decided to send Bektassov Marat Aidarly’s dissertation titled “Development of comprehensive methods for organic compounds determination in water” for revision to address the following comments:

- 1) It is necessary to provide the brand of the device, as opposed to merely the model.
- 2) The nomenclature employed for components can be rendered with greater specificity, such as "Result and Discussion Part for...".
- 3) The impact of the sampling volume is rendered negligible in Figure 2. It is imperative that the text and figure be thoroughly reviewed.
- 4) The experimental conditions must be presented in the section designated as "The Subtitle of the Figure."
- 5) The number should be presented with the same significant digit in all tables.
- 6) The DOM abbreviation ought to be defined in the instance of its initial usage.
- 7) It is imperative that the linear range for each compound be provided in tabular form, accompanied by the analytical figure of merit. Furthermore, the concentrations for the RSD and recovery values should be presented.
- 8) It is imperative that the double citation of reference "[85][85]" in the text be rectified.
- 9) Instead of placing the pH curve at the center of Figure 14 it can be presented according to the increase of pH. Furthermore, it is imperative to elucidate the definition of the asterisk (*10) in the figure.
- 10) In the event that it is feasible, a comparison of the method presented in Table 6 with a standard analysis method could prove to be beneficial.
- 11) The conditioning temperature of the TD Tube can be further delineated with regard to the analyses.
- 12) Briefly summarize the developed procedures for the BVOC measurements with DHS-GC-MS (USEPA or EU, etc.) and compare them to dissertation’s studies. Succinctly describe differences and novel points.
- 13) Extend the description of the Green Chemistry context.
- 14) Address and correct the points indicated in reviewer documents. At the time of writing the review, I deliberately refrained from including certain broader discussion points, as I intended to raise them during the examination discussion.

15) Include an additional paragraph discussing the limitations and potential disadvantages of the developed DHS–GC–MS method.

16) Provide further discussion on the seasonal variation observed in the results, taking into consideration the life cycle of algae and its potential influence on the observed patterns.

17) Elaborate on the applicability of the developed method for non-target screening analysis of water samples and discuss its potential broader applicability to low-volatility semi-VOCs?

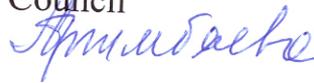
18) Include additional information regarding tube regeneration procedures and the use of blank samples to ensure clarity regarding quality control measures.

19) Elaborate on the reported AGREEPrep score of 0.4. and indicate possible approaches for further improving this value.

2. The revised dissertation must be submitted to the Dissertation Council within three months, with the possibility of an extension for no more than an additional three months. The decision to extend the deadline is made by the Dissertation Council based on a request from the doctoral candidate. If the revised dissertation is not submitted within the established timeframe, the doctoral candidate must undergo a repeated defense.

Chairman of the Dissertation Council

PhD, associate Professor



A.M. Argimbayeva

Scientific secretary of the Dissertation Council

PhD, Professor



B.M. Uralbekov



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ЗАВЕРЯЮ

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