

CHAPTER V

CONCLUSION AND RECOMMENDATION

5.1 Conclusion

Based on the results of research that has been done, it can be concluded that:

- 1) This website-based media consists of several important and interesting features as the home page contains instructions for website content, basic theory, experiments, practice questions, and evaluation. The pre-test and post-test icons on the media website are related to interrelated questions to the material. In the materials section there are examples related to material taught and questions relevant to the material. The templates designed on the website are equipped with many features according to students' needs in learning and conducting experiments. On the media website there are also features on the home page, namely: Sign Up, Login, Materials, Quiz, Videos, and others that can make it easier and enrich students in learning and conducting gas chromatography experiments.
- 2) The Media Website was validated by two material experts and two media experts by filling out a questionnaire adapted to eligibility standards by BNSP. Then the website media developed is revised into a valid website. Appropriateness of the material in terms of content/material, presentation, and language in the website, validators obtained were 95,36% on website media very valid category. Media appropriateness in graphic design, The validator score was 97,02% in the very valid category. with the conclusion that the material and media on this website with gas chromatography material are suitable for use a learning material.
- 3) In the website implementation media that have been developed, Zoom, Google Form, Link Drive as learning the Management System at Medan State University is used. The sample is conducted at Medan State University in the Chemistry Education class 2021 with a total of 27 students. Students do all activities well, for example initial ability examination, pre-test, understanding of gas chromatography

material, post-test, and submission of other assignments.

- 4) To determine the increase in student learning outcomes, a pre-test is carried out and post-test given. The test uses media on the website that is tailored to the student's skills Higher Education and validated by two test experts. The results on the pre-test are categorized as "poor" with an average score of 35 and the post-test is It was reported as "excellent" with an average score of 150. It means student learning outcomes increased and were included in the "very good" category after students using website media that has been developed. Based on the results, there are learning outcomes increasing means that website-made learning e-media can improve student learning outcomes.

5.2 Recommendation

Based on the conclusions and research considerations stated above, researchers try to provide the following suggestions:

- 1) For further research, it is best to implement the development of artificial learning media that is integrated with website media which is equipped with motivation and results of students' critical thinking.
- 2) For further research, the development of artificial learning media that is integrated with website media can be replaced with others virtual laboratory available in Indonesian.
- 3) For further research, it is best to add experiments with different materials or experiments on this gas chromatography material.