Experiment 2 UV-Vis qualitative analysis Determination of λmax of KMnO4 Report Sheet

Secti	on number:		Group number:			
<u>Obj</u>	ective:					
Met	:hod:					
•	The Concentration of Potas	range issium permanganate stock solum permanganate stock soluncentration of the measured	ution is(unit)			
Res	ults:					
1.	Fill in the following peak tak	n the following peak table which represent the wavelength and the absorbance ach peak.				
	Peak number	Wavelength (nm)	Absorbance			
	1					

Graph Plotting (Wavelength vs. Absorbance):

Attach the picture or draw the plot that was shown on the instrument screen during the analysis of your sample; label **the X-axis** for the wavelength and **the Y-axis** for the absorbance.

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esults Summary:				
e maximum absorbance is:				
e λ _{max} is:				

Discussion

Answer the following questions:

- 1. There is no need to scan your sample in the Ultraviolet (UV) range of wavelength. Why?
- 2. While using UV-Vis spectrophotometer to scan your sample over a range of wavelength, what could happen to spectrum results if you are mistakenly switch the place of your sample cell and the reference?

3. Explain why a suitable dilution of the sample must be obtained before measuring the absorbance using UV-Vis spectrophotometer device?

Experiment Report Workload Distribution Table

Coordinator for Current Experiment¹:

Section ²	Student Name ³	Percentage of the Performed workload ⁴

¹Mention the name of the student/ group member who did arrange the work related to the current experiment group report/work management.

²Section or part of the group report

³Mention the name of student/the group member who took responsibility of the specified group report section

⁴Relative to the whole workload used to prepare the current group report.