

# Lab Report for Atomic Spectra

## Part A. Calibration of the Spectroscope

Table 1. Emission Spectrum of Mercury

| Color  | Position from Center of Spectroscope (cm) | Wavelength (nm) |
|--------|---|-----------------|
| violet | 7 cm                                      | 404.7           |
| blue   | 4.6 cm                                    | 435.8           |
| green  | 15.6 cm                                   | 546.1           |
| yellow | 18.2 cm                                   | 579.0           |

Equation of best fit line from Excel ( $\lambda = mx + b$ , where  $x = \text{position}$ ):

$$\lambda = 0.0745x - 25.261$$

$$R^2 = 0.9121$$

Your instructor may ask you to attach a copy of your graph. Check with your instructor to see if this is required.

## Part B. Spectrum of a Polyelectronic Element

Table 2. Atomic Spectrum of He (Helium)

| Color of Selected Spectral Line | Position from Center of Spectroscope (cm) | Measured Wavelength (nm) (From Calibration Graph) | Actual Wavelength (nm) (From NIST website) | Percentage Error in Measured Wavelength |
|---------------------------------|---|---|--|---|
| violet +                        | 7.3 cm                                    | -24.7 nm  | 509.99829                                  | 104.8% error                            |
| blue                            | 7.8 cm                                    | -24.7 nm  | 509.99829                                  | 104.8% error                            |
| green                           | 12.3 cm                                   | -24.4 nm  | 509.99829                                  | 2446% error                             |
| yellow                          | 18.5 cm                                   | -23.9 nm  | 509.99829                                  | 2390%                                   |
| red                             | 25.2 cm                                   | -23.4 nm  | 509.99829                                  | 2340%                                   |

# Atomic Spectra Lab Report Answers

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## **Table of Contents Atomic Spectra Lab Report Answers**

1. Understanding the eBook Atomic Spectra Lab Report Answers
  - The Rise of Digital Reading Atomic Spectra Lab Report Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Atomic Spectra Lab Report Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Atomic Spectra Lab Report Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Atomic Spectra Lab Report Answers
  - Personalized Recommendations
  - Atomic Spectra Lab Report Answers User Reviews and Ratings
  - Atomic Spectra Lab Report Answers and Bestseller Lists
5. Accessing Atomic Spectra Lab Report Answers Free and Paid eBooks
  - Atomic Spectra Lab Report Answers Public Domain eBooks
  - Atomic Spectra Lab Report Answers eBook Subscription Services
  - Atomic Spectra Lab Report Answers Budget-Friendly Options

6. Navigating Atomic Spectra Lab Report Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Atomic Spectra Lab Report Answers Compatibility with Devices
  - Atomic Spectra Lab Report Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Atomic Spectra Lab Report Answers
  - Highlighting and Note-Taking Atomic Spectra Lab Report Answers
  - Interactive Elements Atomic Spectra Lab Report Answers
8. Staying Engaged with Atomic Spectra Lab Report Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Atomic Spectra Lab Report Answers
9. Balancing eBooks and Physical Books Atomic Spectra Lab Report Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Atomic Spectra Lab Report Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Atomic Spectra Lab Report Answers
  - Setting Reading Goals Atomic Spectra Lab Report Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Atomic Spectra Lab Report Answers
  - Fact-Checking eBook Content of Atomic Spectra Lab Report Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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