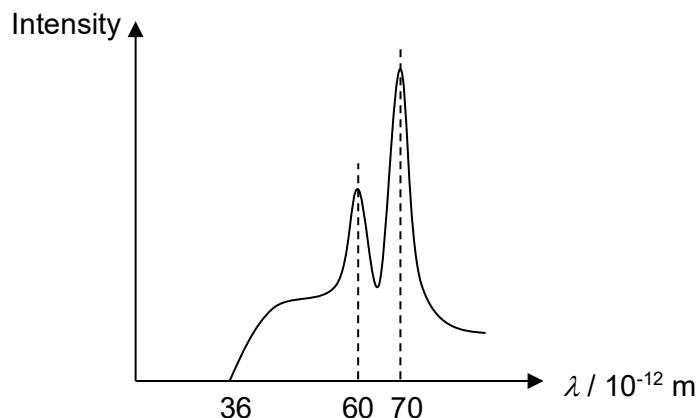


- 28 The x-ray spectrum produced by bombarding a metal target with electrons is shown below.



Which of the following statements is correct?

- A The graph shows that electrons with a range of kinetic energies are used to bombard the target.
- B The wavelength corresponding to the peaks allow the energy of the electrons used to bombard the target to be calculated.
- C The smallest wavelength detected, $36 \times 10^{-12} \text{ m}$, is dependent on the target material.
- D The wavelength corresponding to the peaks can be used to identify the element of target.