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Affiliation _____,

No. _____,

Name _____,

From a sample, a Raman scattering spectrum was observed.

Peak Raman shifts of the Raman scattering were 200 and 300 cm^{-1} .

(fill the following under line)

(1) The sample was excited by Ar ion laser of 488.0 nm. Calculate absolute value of peak wavelength of the Raman scattering peaks. **Indicate with 1 decimal place.**

200 cm^{-1} → _____ nm

300 cm^{-1} → _____ nm

(2) The sample was excited by Ar ion laser of 514.5 nm. Calculate absolute value of peak wavelength of the Raman scattering peaks. **Indicate with 1 decimal place.**

200 cm^{-1} → _____ nm

300 cm^{-1} → _____ nm

(3) The sample was excited by SH of Nd^{3+} YVO₄ laser of 532.0 nm. Calculate absolute value of peak wavelength of the Raman scattering peaks. **Indicate with 1 decimal place.**

200 cm^{-1} → _____ nm

300 cm^{-1} → _____ nm

(4) The sample was excited by He-Ne of 632.8 nm. Calculate absolute value of peak wavelength of the Raman scattering peaks. **Indicate with 1 decimal place.**

200 cm^{-1} → _____ nm

300 cm^{-1} → _____ nm

(5) The sample was excited by LD of 775.0 nm. Calculate absolute value of peak wavelength of the Raman scattering peaks. **Indicate with 1 decimal place.**

200 cm^{-1} → _____ nm

300 cm^{-1} → _____ nm

Deadline 2020/7/31 15:00(JST)

Submitting place: mail box at room 406 of the electrical engineering building.

Write your e-mail address which can receive from tanaka@vos.nagaokaut.ac.jp.

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