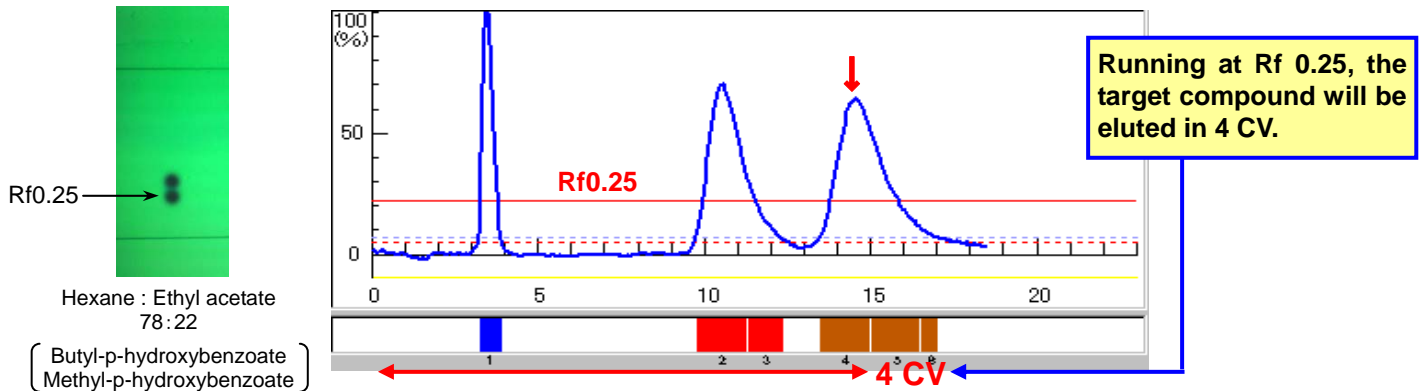


## Ideal Method Transfer from TLC to Column Chromatography – Rf 0.25 Equivalent Gradient Elution –

■ It is a proven fact that the good separations are achieved in normal phase silica gel column chromatography when running samples in solvent mixture that moves samples at Rf 0.2 ~ 0.3 on TLC.

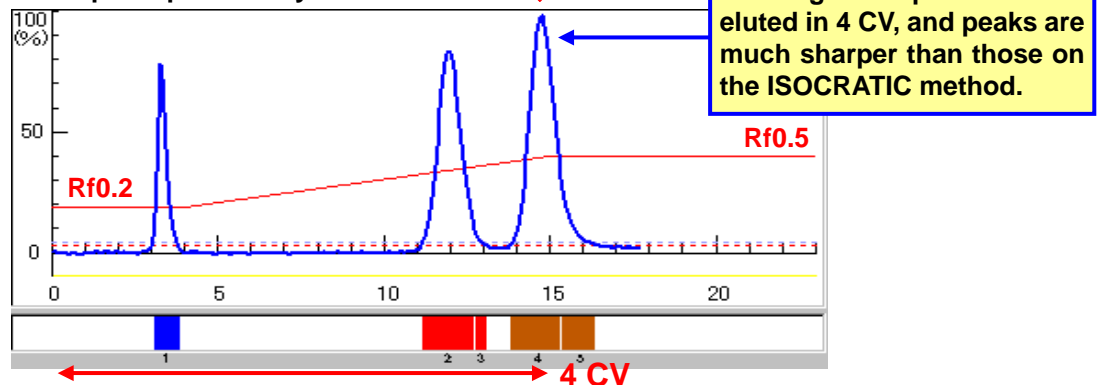
< Sample separation by conventional ISOCRATIC method at Rf 0.25 >



■ How can the Rf 0.25 Gradient elution be achieved on the flash chromatography system?

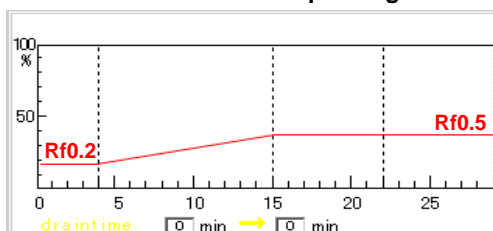
→ The answer is on the Yamazen's proprietary "Rf Gradient" method.

< Sample separation by Rf Gradient >

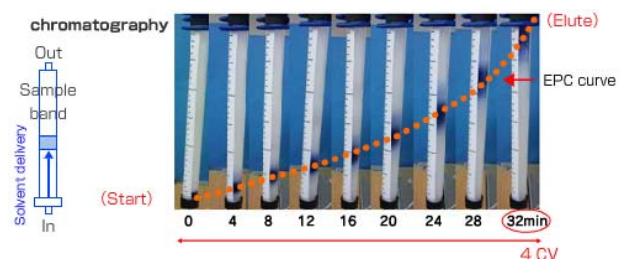


Yamazen Rf Gradient, the linear gradient that starts from Rf 0.2 and ends at Rf 0.5 achieves the Rf 0.25 equivalent elution.

Rf Gradient is the most optimal gradient.



The sample band moves inside a column along the EPC curve with the most optimal gradient. The result is the most efficient and ideal chromatography.



- Gradient equivalent to Rf 0.25 (or 4 CV retention) can never be developed properly without Yamazen's Rf Gradient method. By changing the solvent strength linearly alone will not achieve this process.
- Just input TLC result, and the most optimal gradient will be automatically developed on the Yamazen's application software.