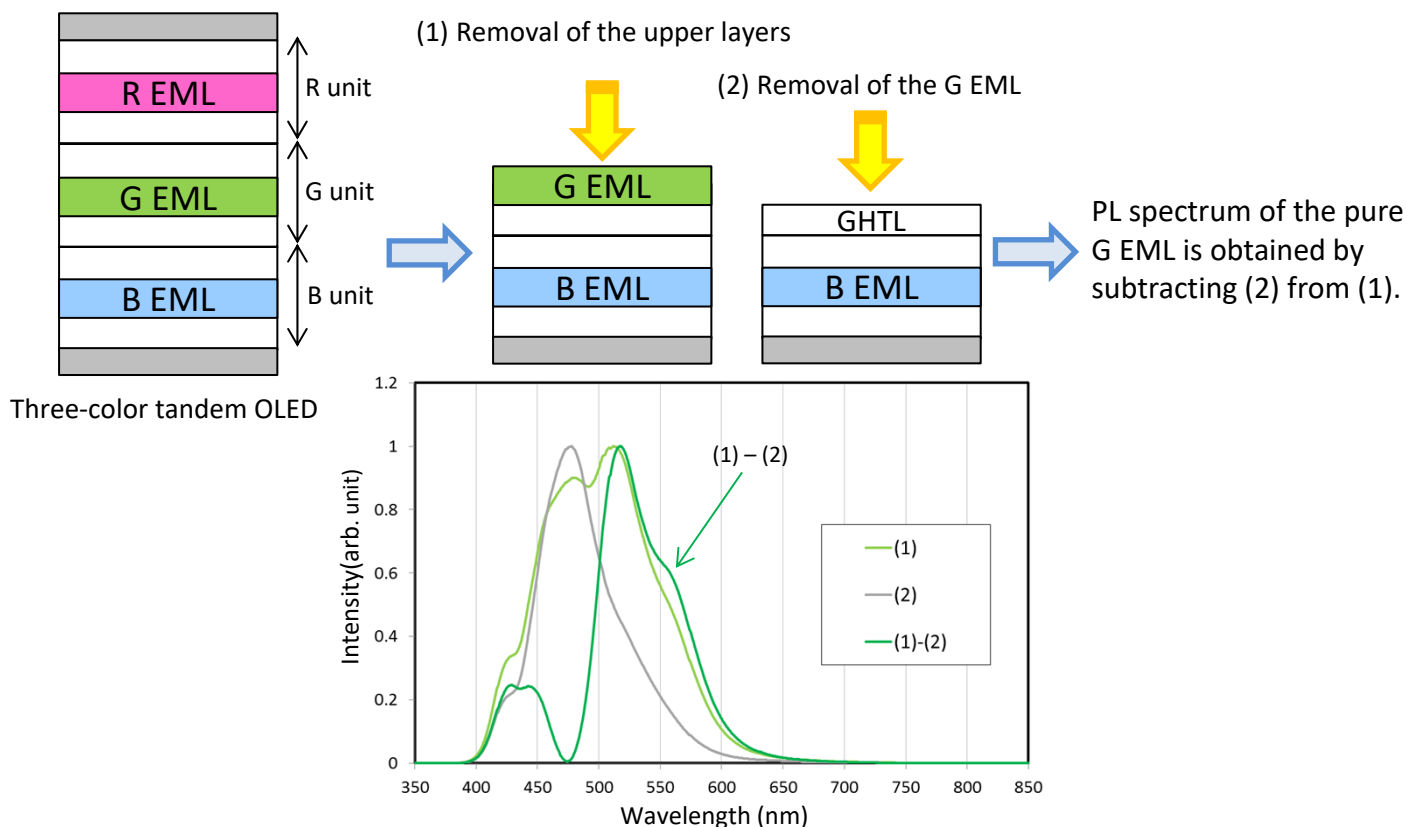


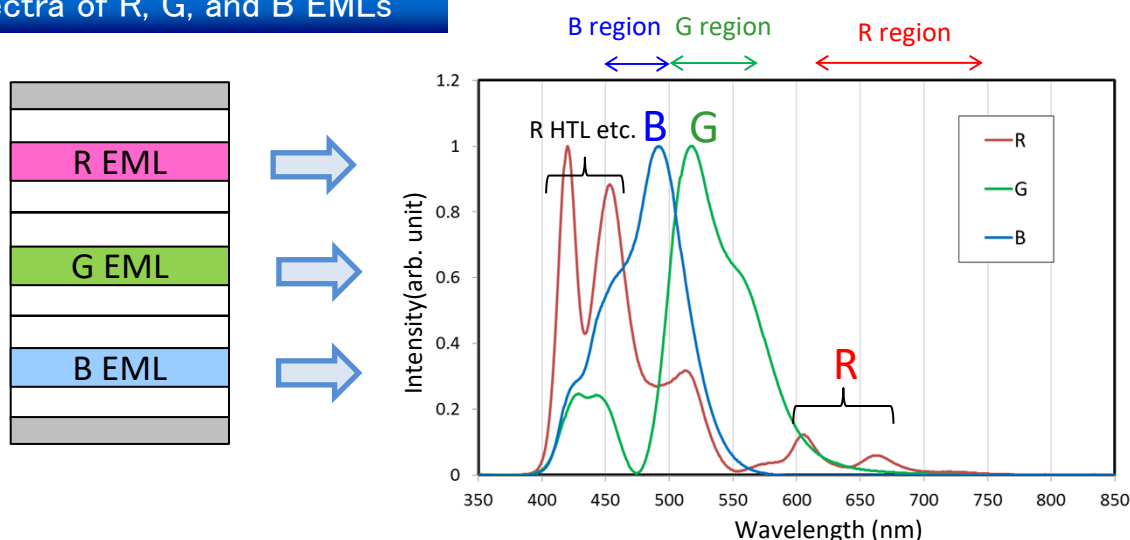
# Photoluminescence (PL) analysis of EMLs in multilayered OLEDs

We have developed a method which enables to separate each PL signals in multilayered OLEDs. Pure PL spectra of each EMLs can be obtained by using a precise etching technique and a difference-spectrum method.

## Measurement procedure of each EML spectrum



## PL spectra of R, G, and B EMLs



- The difference spectra of R, G, and B EMLs in this sample correspond to the general RGB color regions.
- PL spectra of each EMLs in multilayered OLEDs can be obtained by this technique.