

Quantum Dot Light-Emitting Diode with Quantum Dots Inside the Hole Transporting Layers

*Kheng Swee Leck,[†] Yoga Divayana,^{†,‡} Dewei Zhao,[†] Xuyong Yang,[†] Agus Putu Abiyasa,[†]
Evren Mutlugun,^{†,⊥} Yuan Gao,[†] Shuwei Liu,[†] Swee Tiam Tan,[†] Xiao Wei Sun,^{*,†,⊥} and
Hilmi Volkan Demir^{*,†,§,⊥}*

[†] LUMINOUS! Centre of Excellence for Semiconductor Lighting and Displays, School of
Electrical and Electronic Engineering, Nanyang Technological University, Nanyang Avenue,
Singapore 639798

[‡] School of Electrical Engineering, Udayana University, Kampus Bukit Jimbaran, Bali,
Indonesia

[§] School of Physical and Mathematical Sciences, Nanyang Technological University,
Nanyang Avenue, Singapore 639798

[⊥] Department of Electrical and Electronics Engineering, Department of Physics, UNAM–
Institute of Materials Science and Nanotechnology, Bilkent University, Bilkent, Ankara,
Turkey 06800

^{||} South University of Science and Technology of China, Shenzhen, Guangdong, China
518055

In-film and in-solution quantum efficiency measurement

We have measured the in-film and in-solution quantum efficiency of the quantum dots using Hamamatsu-Quantaaurus quantum efficiency measurement setup and obtained similar values of quantum efficiency when the measurement is carried out with respect to reference dye.

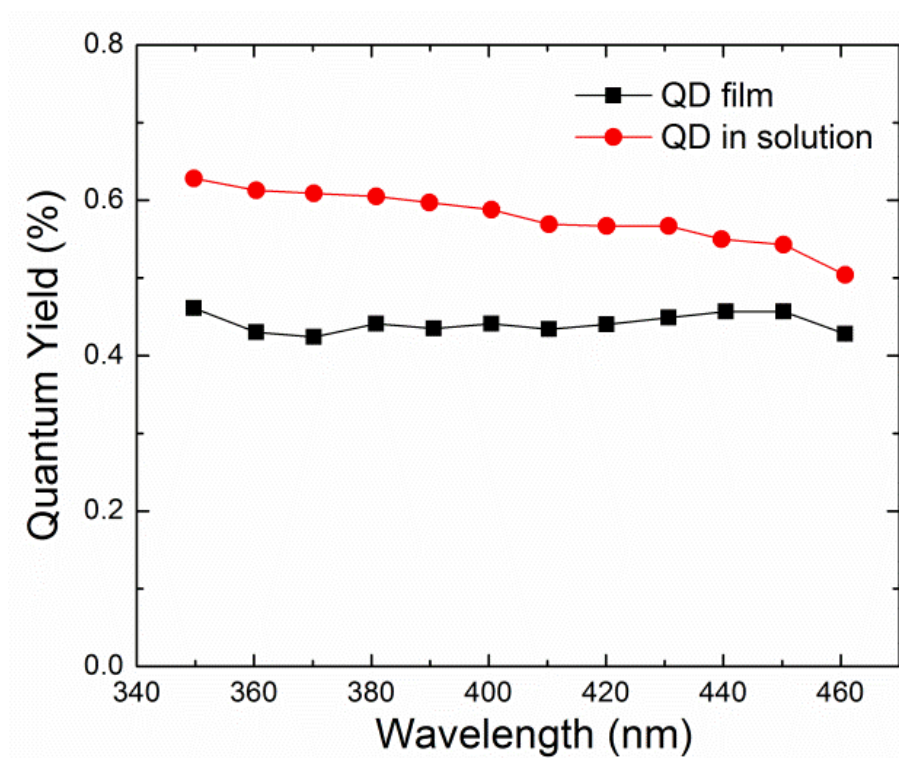


Figure S1. In-film and in-solution quantum efficiency of the quantum dots.