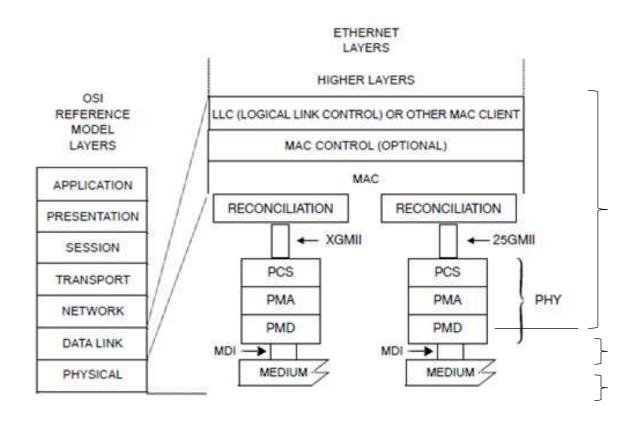


# **Move forward**

Yuji Watanabe, AGC Inc.

### PCS/PMA/PMD for 802.3dh





802.3czD3.2 is confirmed to be submitted to Revcom on Jan. 17<sup>th.</sup>

If no more new proposal for 802.3dh PCS/PMA, the 802.3dh chair would like to re-use 802.3cz for 802.3dh except wavelength

Keep discussion

A4j

MAC = MEDIA ACCESS CONTROL

MDI = MEDIUM DEPENDENT INTERFACE

PCS = PHYSICAL CODING SUBLAYER

PHY = PHYSICAL LAYER DEVICE

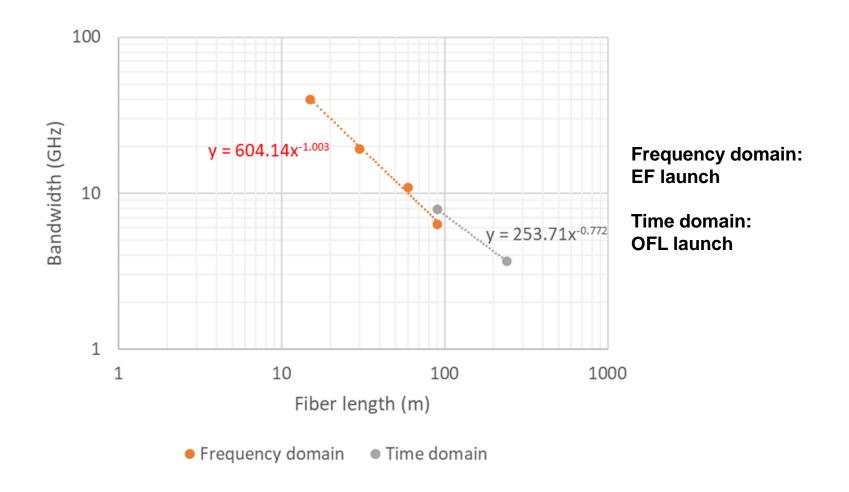
PMA = PHYSICAL MEDIUM ATTACHMENT

PMD = PHYSICAL MEDIUM DEPENDENT

XGMII = 10 GIGABIT MEDIA INDEPENDENT INTERFACE 25GMII = 25 GIGABIT MEDIA INDEPENDENT INTERFACE

# **Example 1 of bandwidth of GI-POF(A4i)**

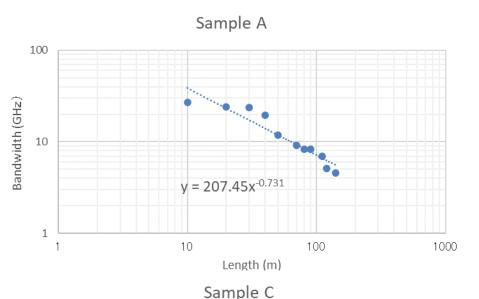


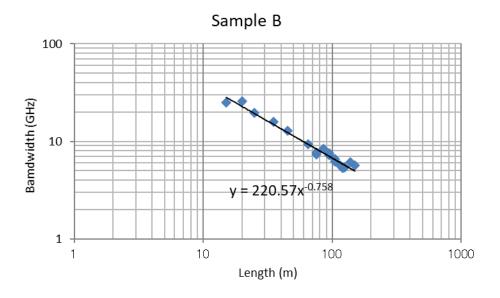


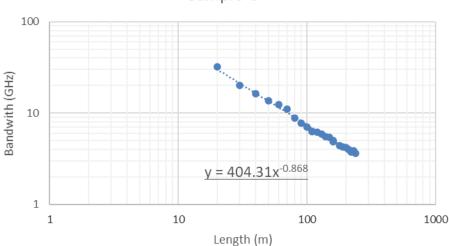
https://www.ieee802.org/3/cz/public/jan 2022/watanabe 3cz 01 0122 Bandwidth gipof short length.pdf

# **Example 2 of bandwidth of GI-POF(A4i)**





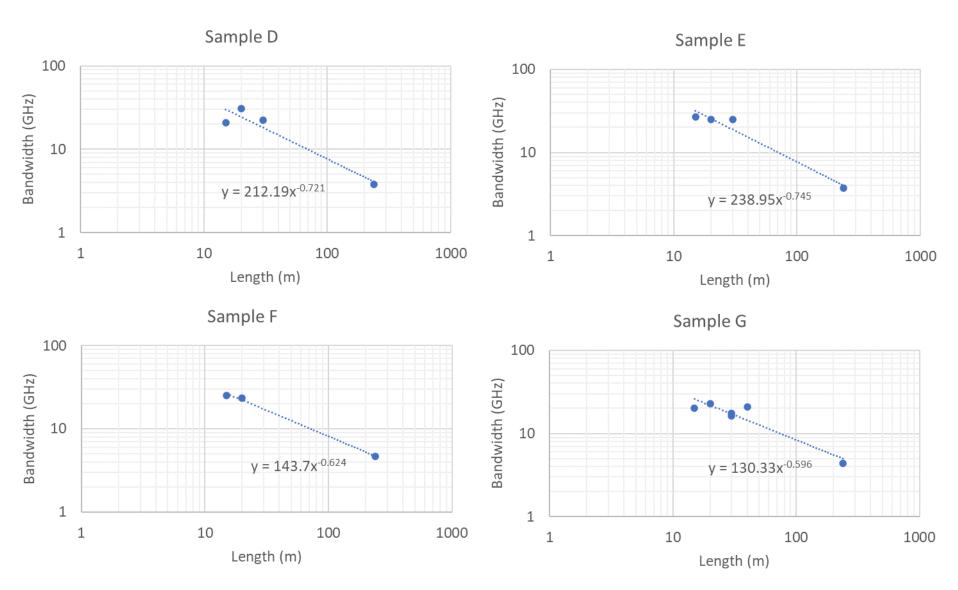




Time domain: OFL launch

# **Example 3 of bandwidth of GI-POF(A4i)**





Time domain: OFL launch

### Conclusion



- Bandwidth vs. length relationship was investigated with diffetent manufacturing lot of GI-POF (A4i) BW ~ L⁻γ
- γ showed 0.6 ~ 0.9 with OFL launch
- Because γ tend to decrease in very short length (<30 m), it is not a
  wise way to extrapolate the bandwidth at short length from the
  bandwidth measured with longer fiber. The bandwidth should be
  defined at short length (ex. 15m) for automobile application.</li>