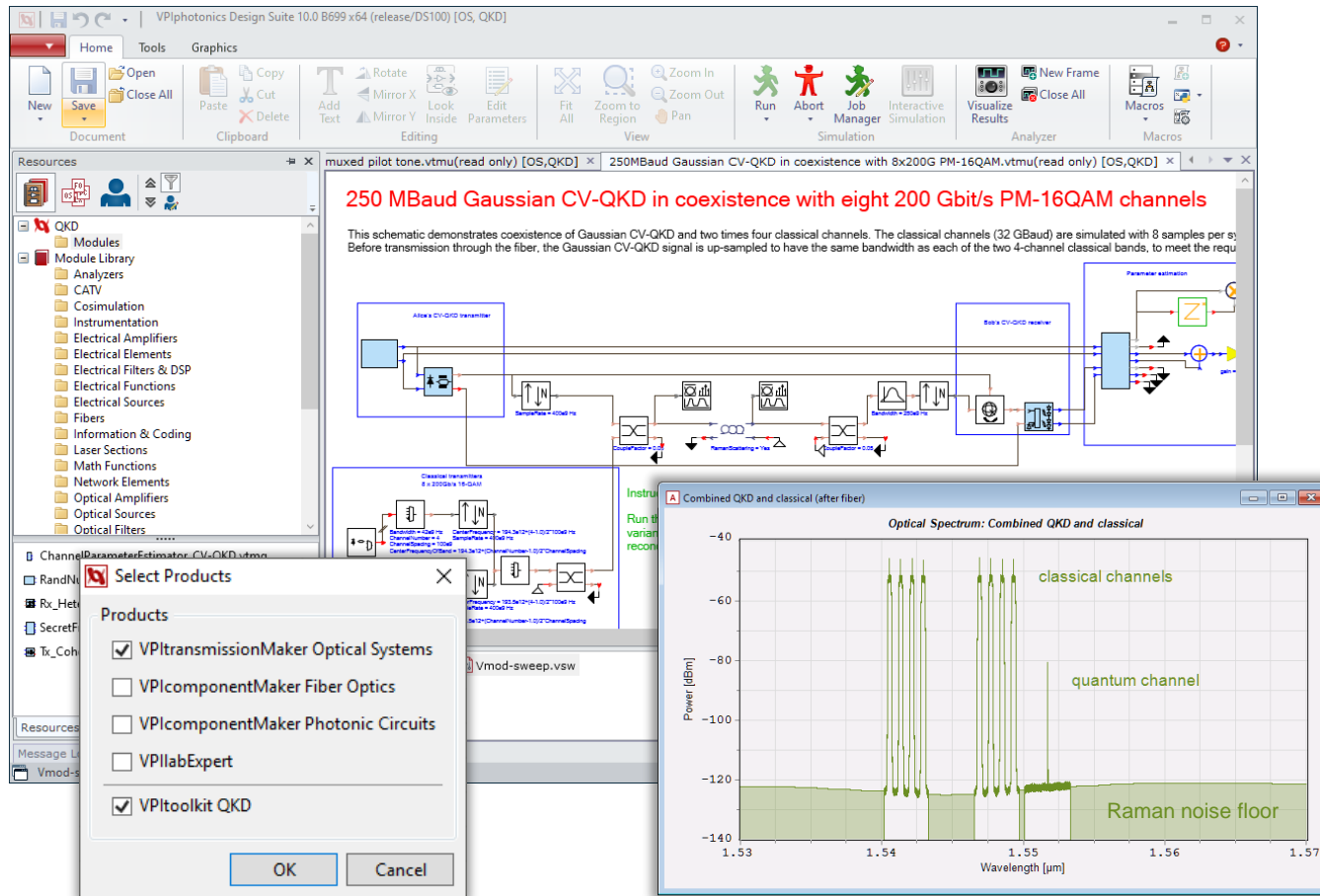


VPItransmissionMaker Optical Systems
 classical system simulation environment

together with

VPItoolkit QKD
 for system-level CV/DV-QKD simulations



provides models for QKD transmitter/receiver, parameter and secret key rate estimation, and application examples.

- ✓ **System design:**
 various implementation options for QKD systems and sub-systems
- ✓ **Study of co-existence scenarios:**
 Raman scattering, cross-talk from classical channels, etc.
- ✓ **Account for component imperfections:**
 thermal and quantization noise, RIN, phase noise, biased beam splitting ratios, dark count rates, after pulsing, etc.
- ✓ **Optimization of system parameters:**
 modulation amplitude, photons per pulse, filter bandwidth, BB84 basis probability, symbol rate, etc.
- ✓ **Estimation of performance criteria:**
 max possible secret key rate, transmission distance, etc.