



Figure 3. Experimental dual-comb spectrum resulting from the multiheterodyne beat between the on-chip III-V-on-Si frequency comb generator and an electro-optic-modulator-based comb synthesizer. (a) Low-resolution optical spectra of the two comb generators. **(b)** Apodized dual-comb spectrum with 660 resolved comb lines and a span limited by the electro-optic-modulator comb, measured within 120 ms. **(c),(d)** Unapodized expanded portions of (b) at different radio-frequencies, showing individual comb lines with the expected instrumental lineshape of transform-limited width **(e)** Evolution of the signal-to-noise ratio of three comb lines across the spectrum with the measurement time: a square-root dependence is observed.