

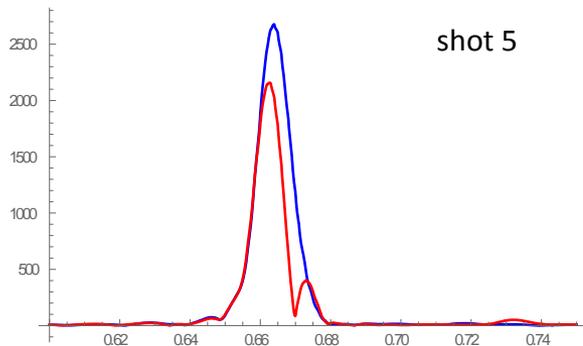
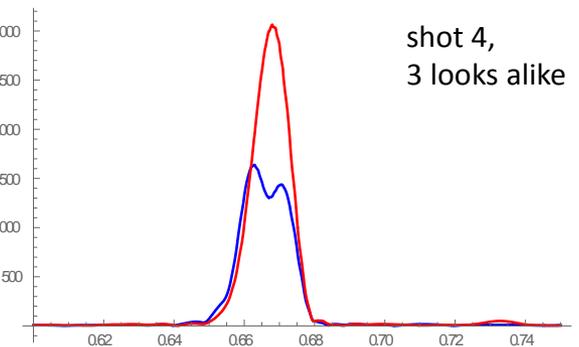
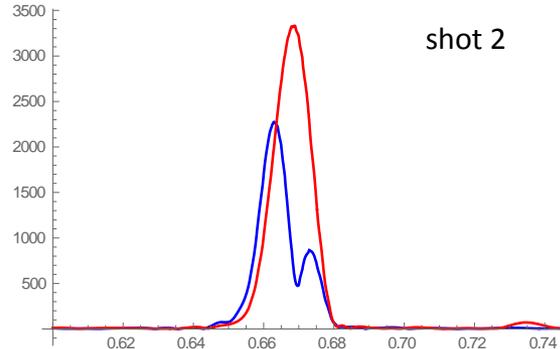
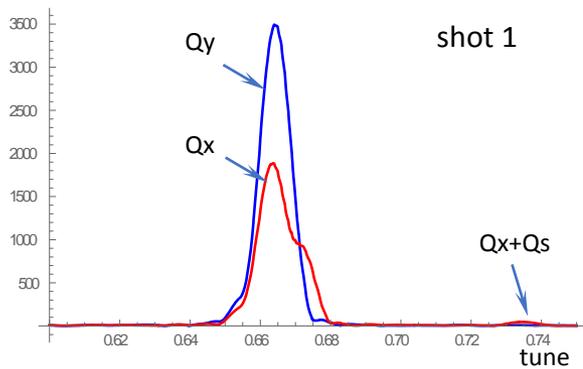
# TBT Spectra Analysis 06/29/2017

Shot	Qx	Qy	$n - 2Qy$	$n - Qx - Qy$
1	6.6637	6.6640	6.6720	6.6723
2	6.6688	6.6630	6.6740	6.6682
3	6.6669	6.6629	6.6742	6.6702
4	6.6680	6.6629	6.6741	6.6691
5	6.6627	6.6639	6.6722	6.6734

200 turns after the kick used, Hann's window applied. Tunes may change appreciably during this period, so the cited values are weighted averages.

Measured tunes are very close to each other, coupling  $\leq 0.005$  ?

Combination tunes are too close to the primary ones, little hope to detect them. Still ...



Sync. satellite bump confirms that red is always horizontal, but horz and vert amplitudes vary significantly shot-to-shot. Bump to the right of the main peaks well can be due to  $Qx+2Qy$