5.4.3. Post-processing Quantitative Numbers

The qualitative numbers for Q1a and Q1b are

- Integral of ON-OFF curve
- % of ON - OFF values > 0
- Standard deviation of ON-OFF

An example Q1a difference curve can be seen in Figure 12

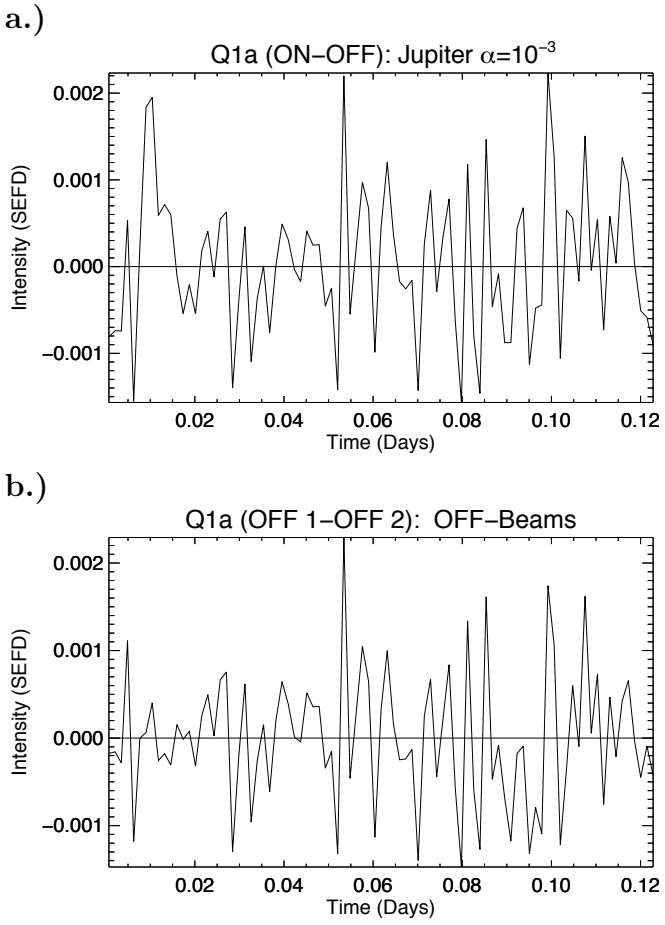

Fig. 12.— Example Q1a difference curves for **(a)** Jupiter with $\alpha = 10^{-3}$ and **(b)** two OFF beams

The qualitative numbers for Q4a to Q4f are

- Integral of ON-OFF curve
- Ratio of the ON-OFF curve to the 1, 2, 3 sigma Gaussian curve
- % of ON - OFF values > 0
- Number of ON-OFF values above 1, 2, 3 sigma Gaussian curves
- Minimum (τ_{min}) and maximum (τ_{max}) threshold value where ON-OFF > 0
- % of ON-OFF values between τ_{min} and τ_{max} and > 0
- % of ON-OFF values between $> \tau_{max}$ and $\neq 0$

An example curve of Q4f difference plots for Jupiter and two sky beams can be found in Figure 13.

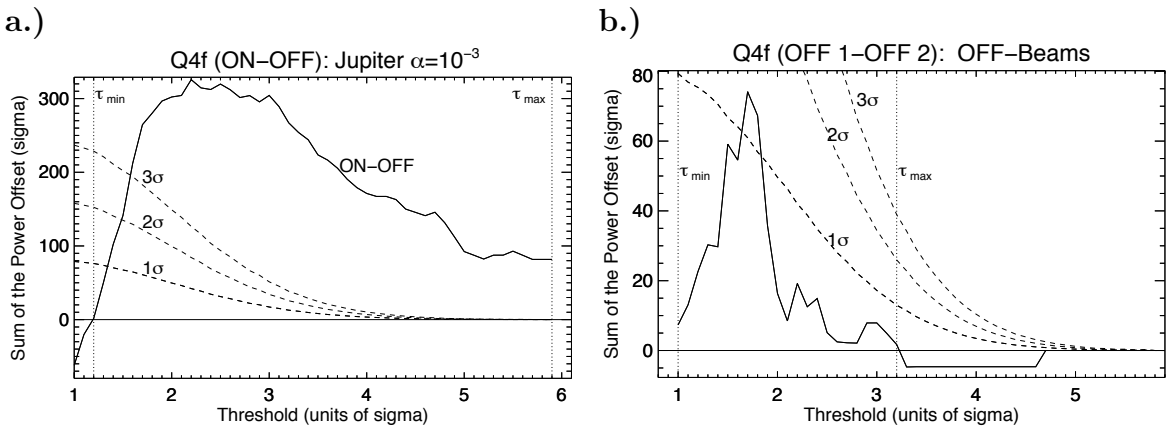

Fig. 13.— Example Q4f difference curves for **(a)** Jupiter with $\alpha = 10^{-3}$ and **(b)** two OFF beams. The dashed lines are the 1, 2, 3σ statistical limits of the difference between all the Q values derived from two different Gaussian distributions (each run 10000 times).