

SPIRou Line-by-line Radial Velocity

Object: TOI442, Template: TOI442, Zero-point corrected: True

Number of exposures: 56, Number of epochs: 14

Diagnostic Plots

2023-05-31

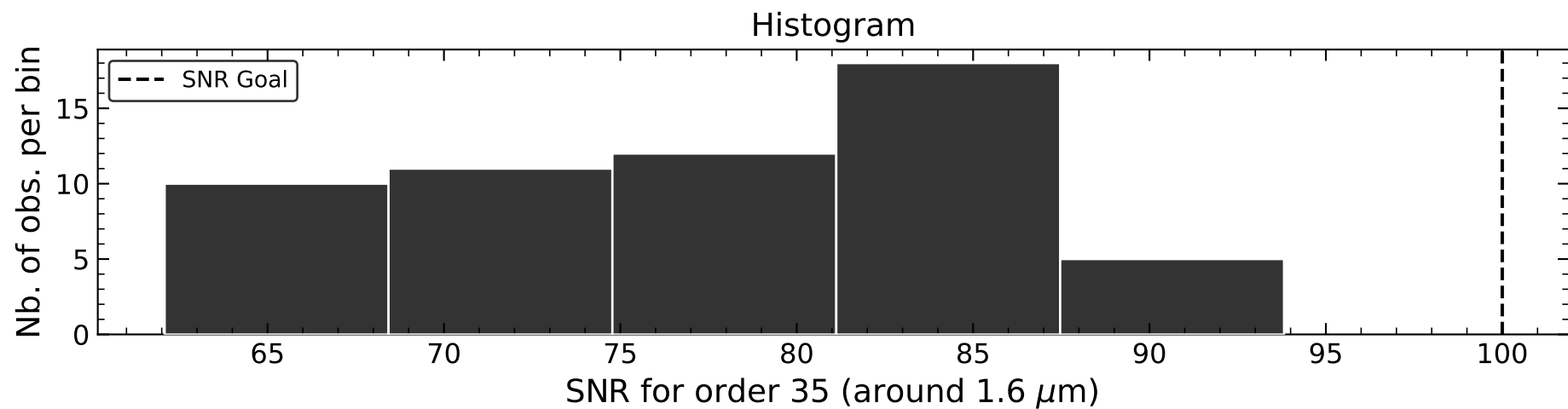
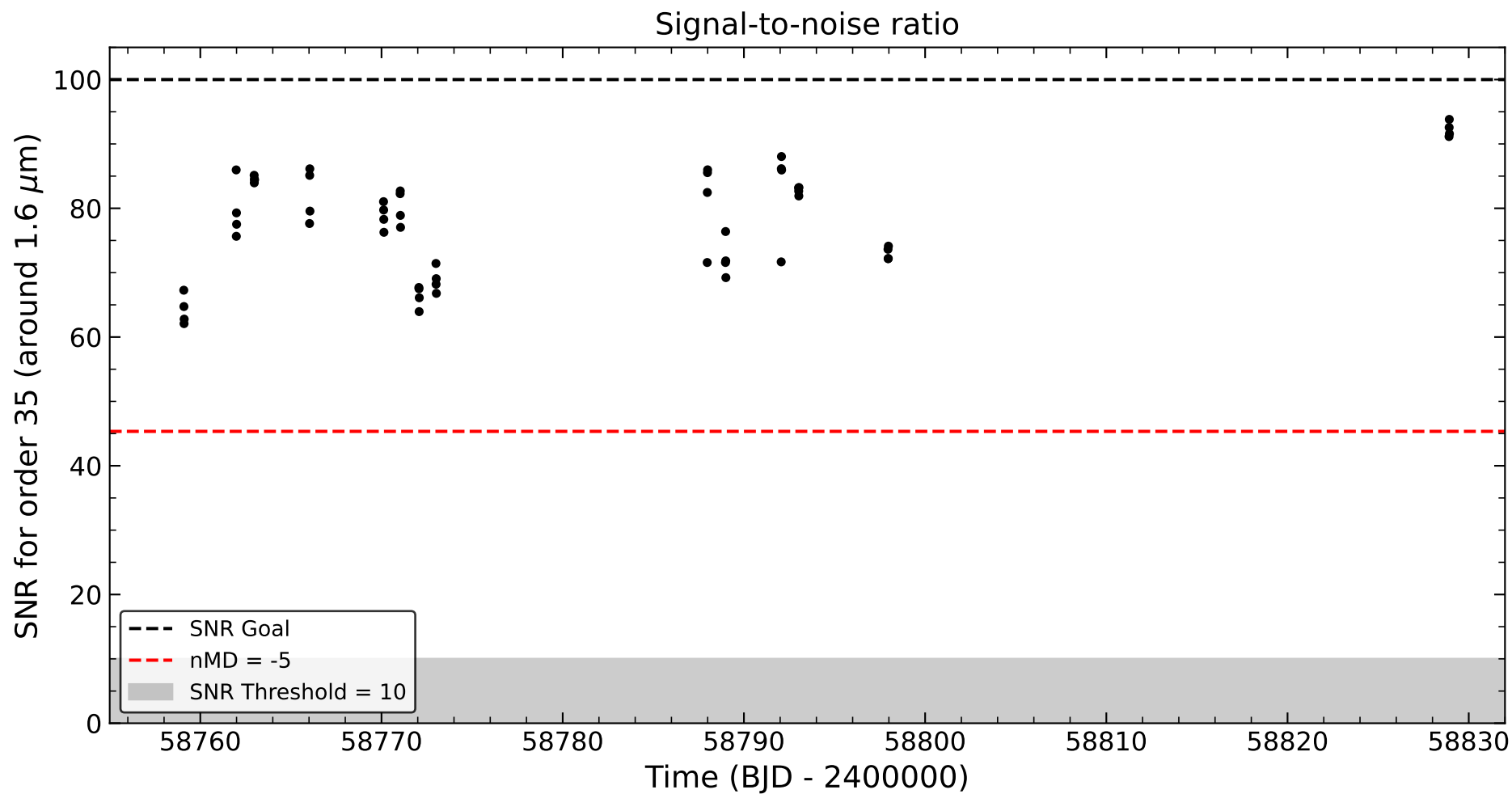
Stellar Parameters

Host name TIC 70899085
RA 04:16:45.65
Dec. -12:05:05.51
Mass (M_{\odot}) 0.59
Radius (R_{\odot}) 0.61
Lum. (L_{\odot}) 0.0679
Teff (K) 3779
Spect. type **M0.5V**
Dist. (pc) 52.62
V 12.49
Gaia 11.73
J 9.49
H 8.83
K 8.63

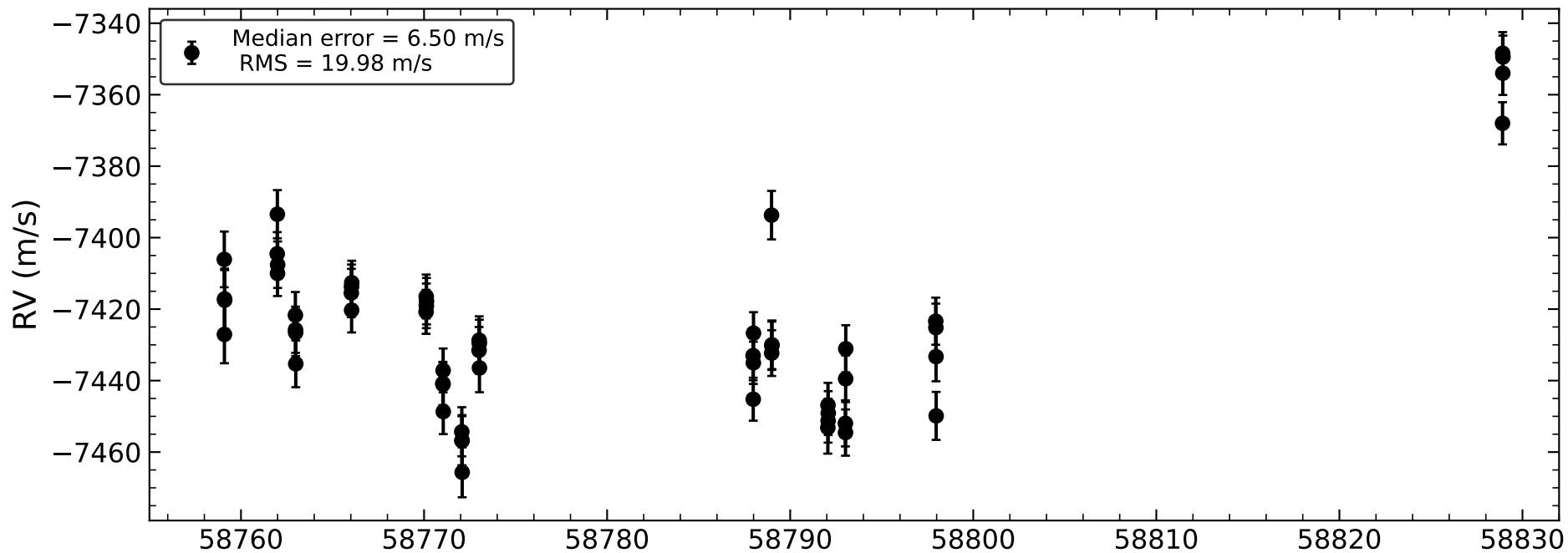
Planet Parameters

Name TOI 442.01
Mass (M_{\oplus}) **21.79**
Radius (R_{\oplus}) 4.95
Density (g/cm^3) **1.0**
Period (days) 4.05204
Transit depth (ppt) 5.51
Transit dur. (hr) 1.56
Orb. sep. (au) **0.042**
Teq (K) 635
Insolation (S_{\oplus}) 38.54
RV K (m/s) **12.36**
Atmo. sig. (ppm) **410**
TSM **152.3**
ESM **26.3**

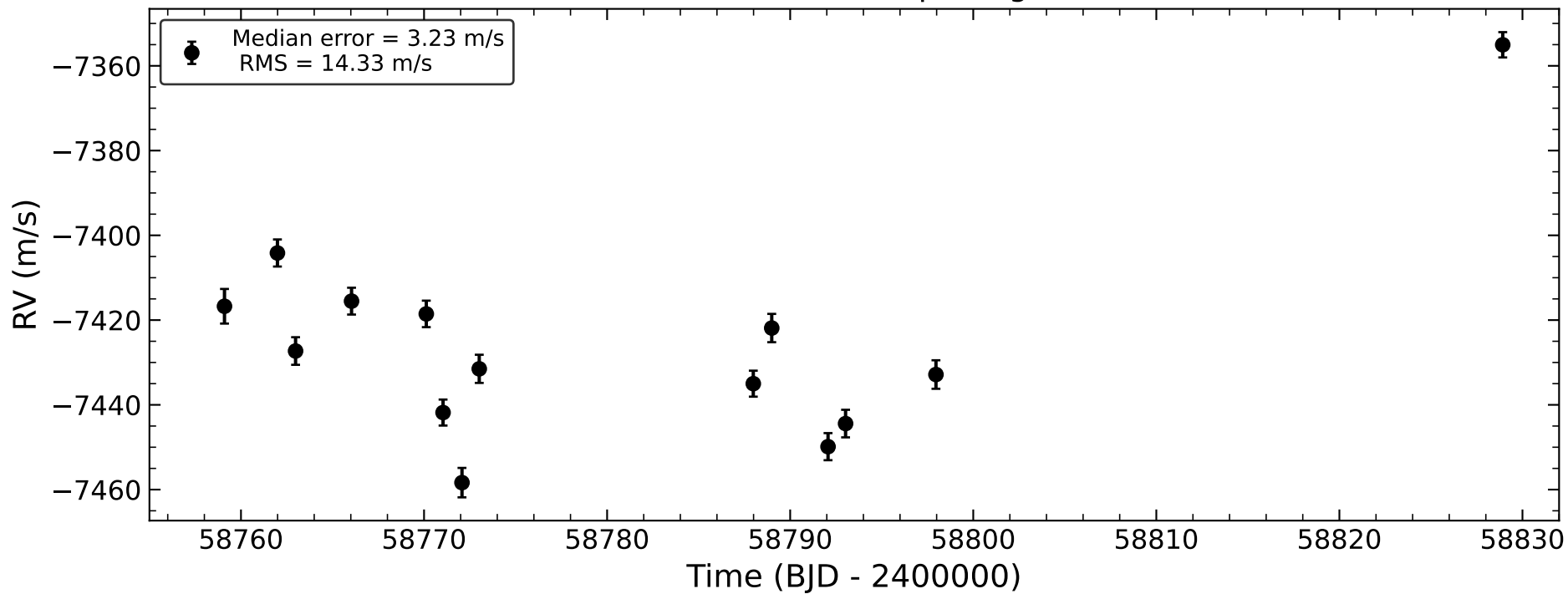
[Link to ExoFOP](#)

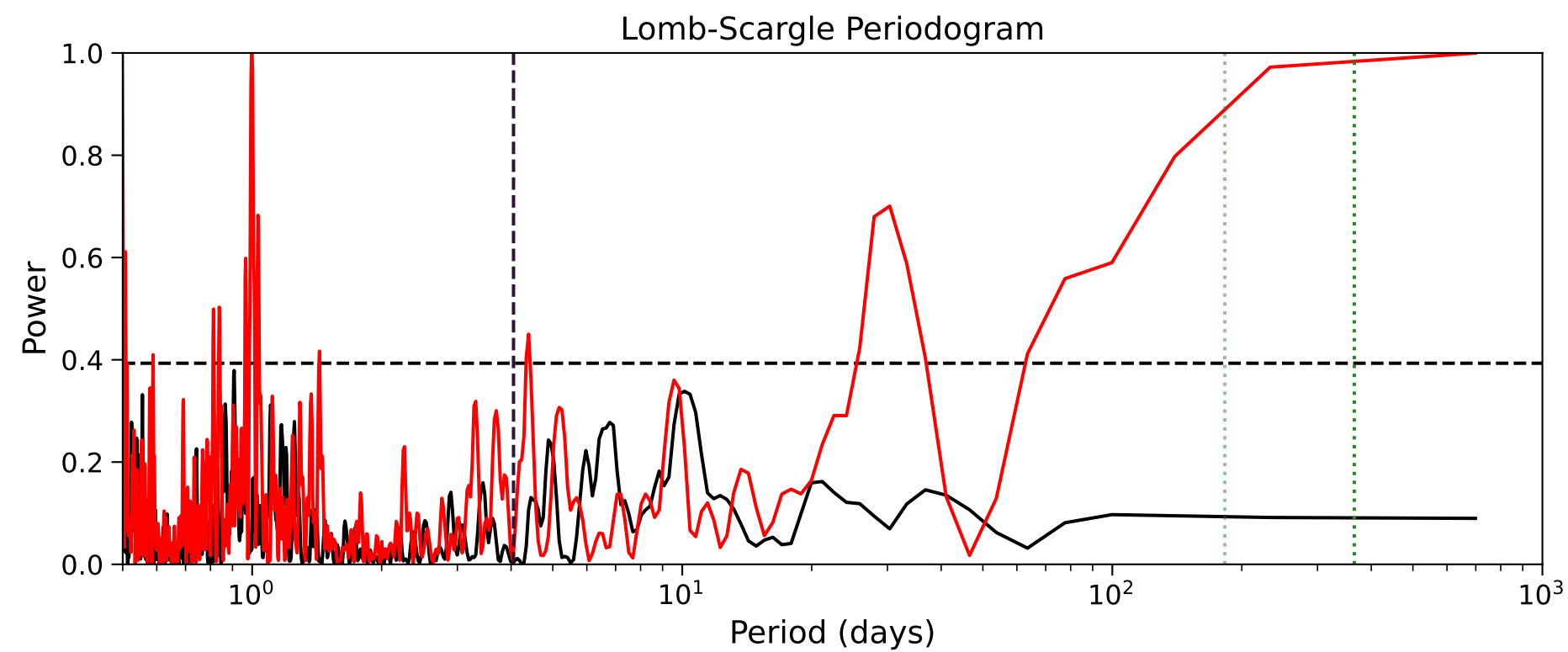
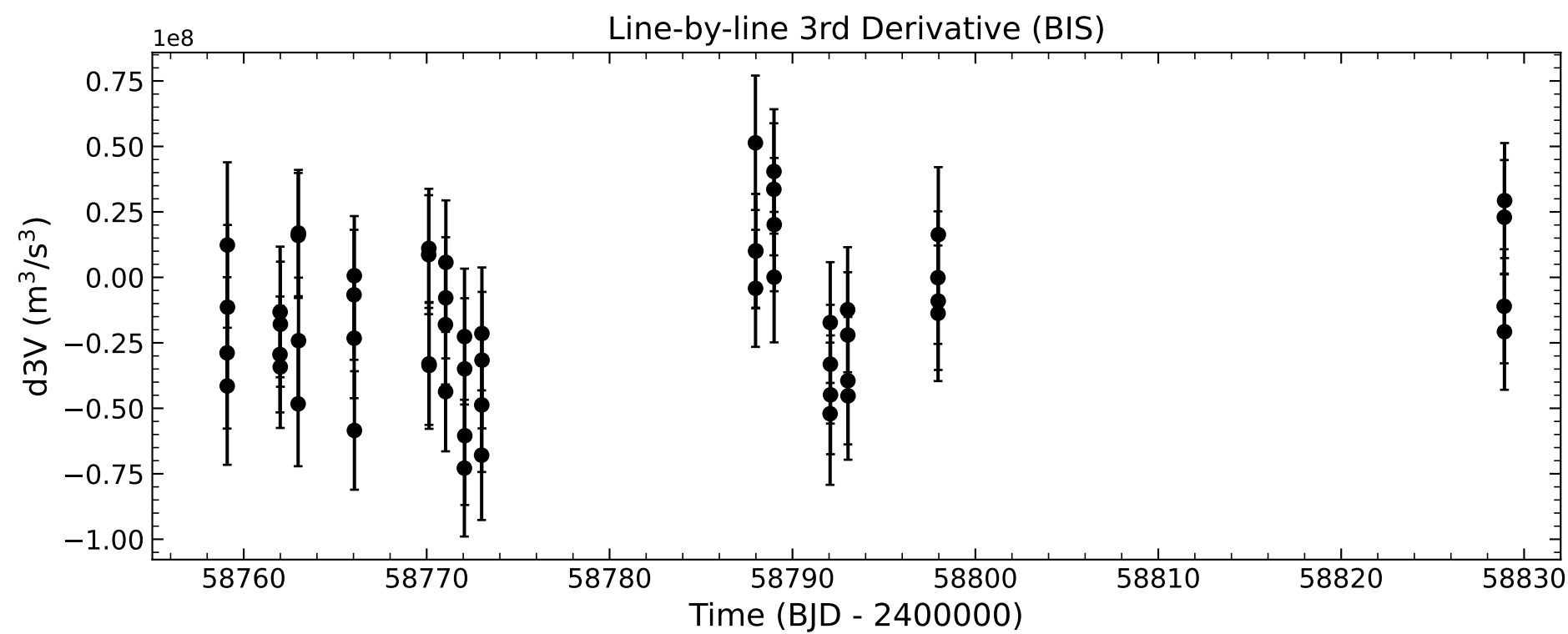
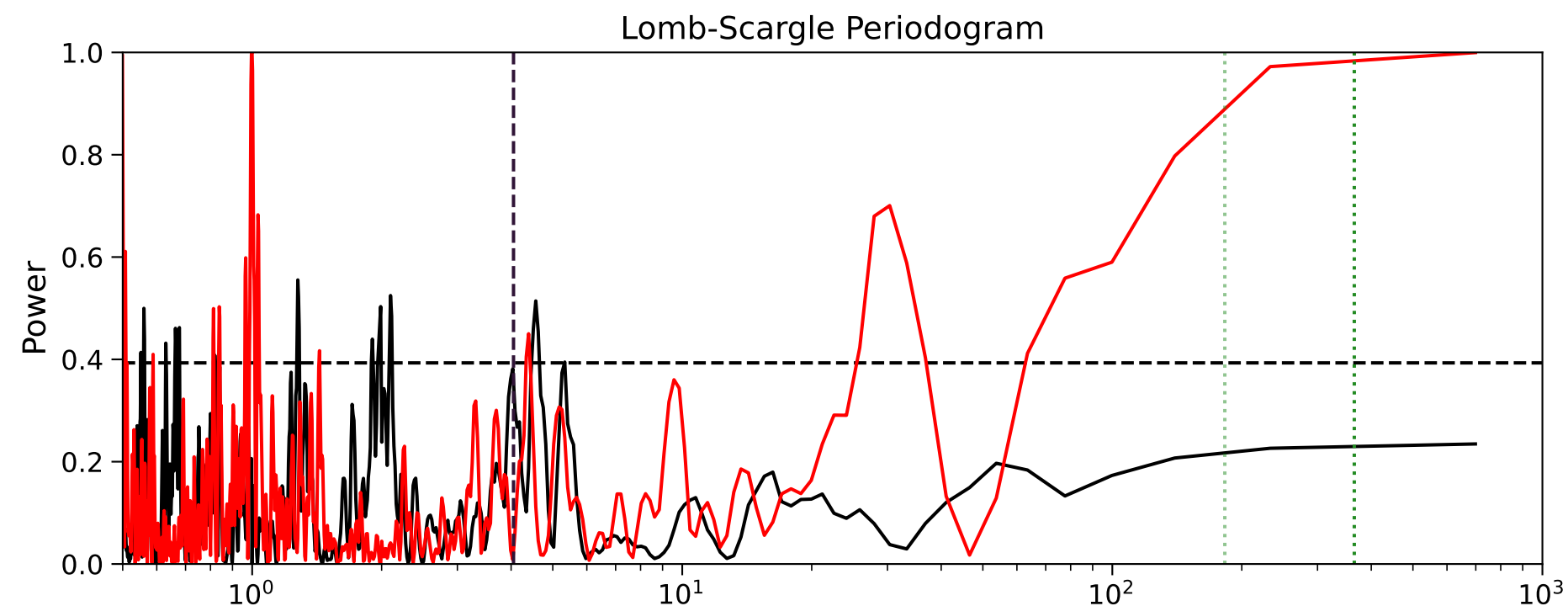
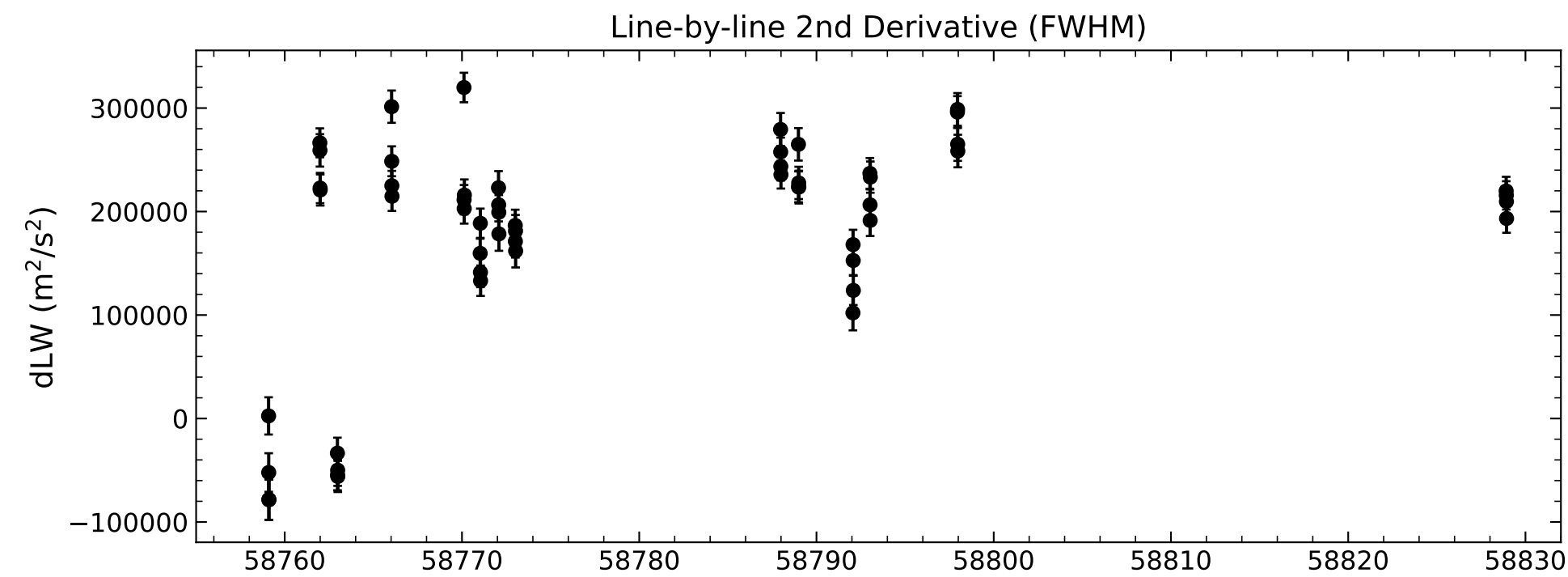
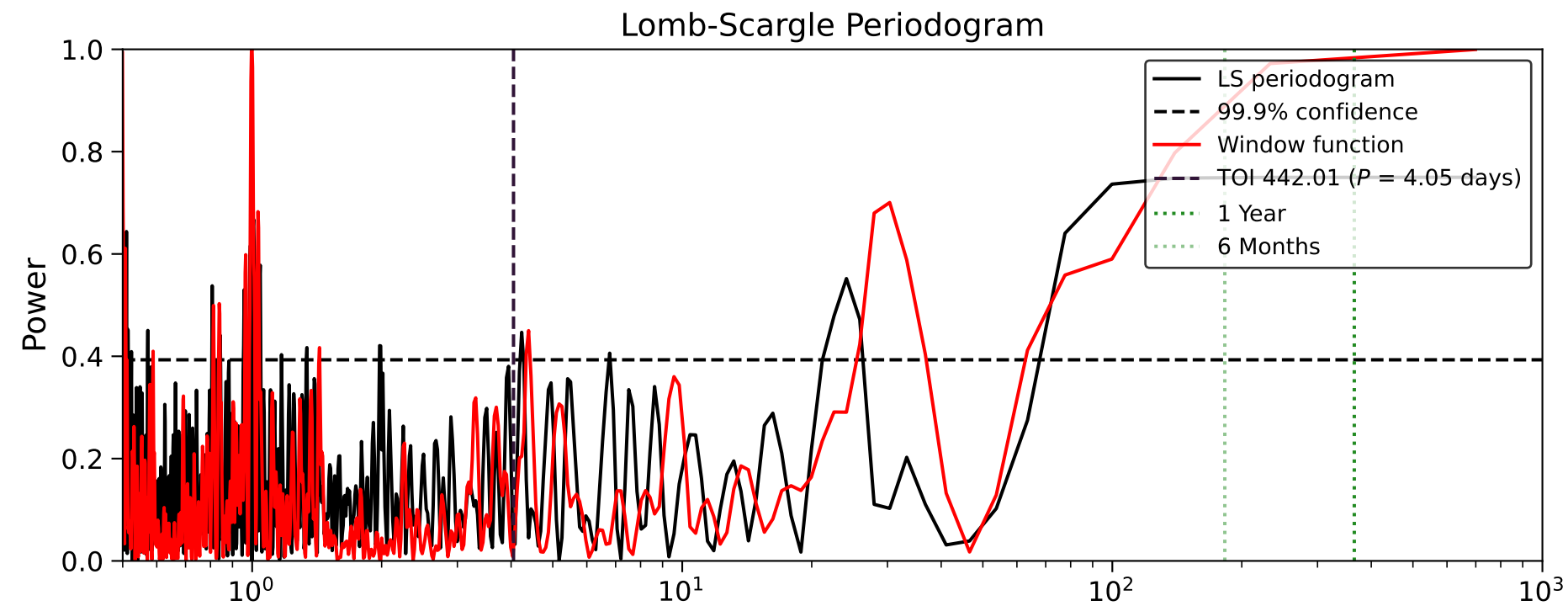
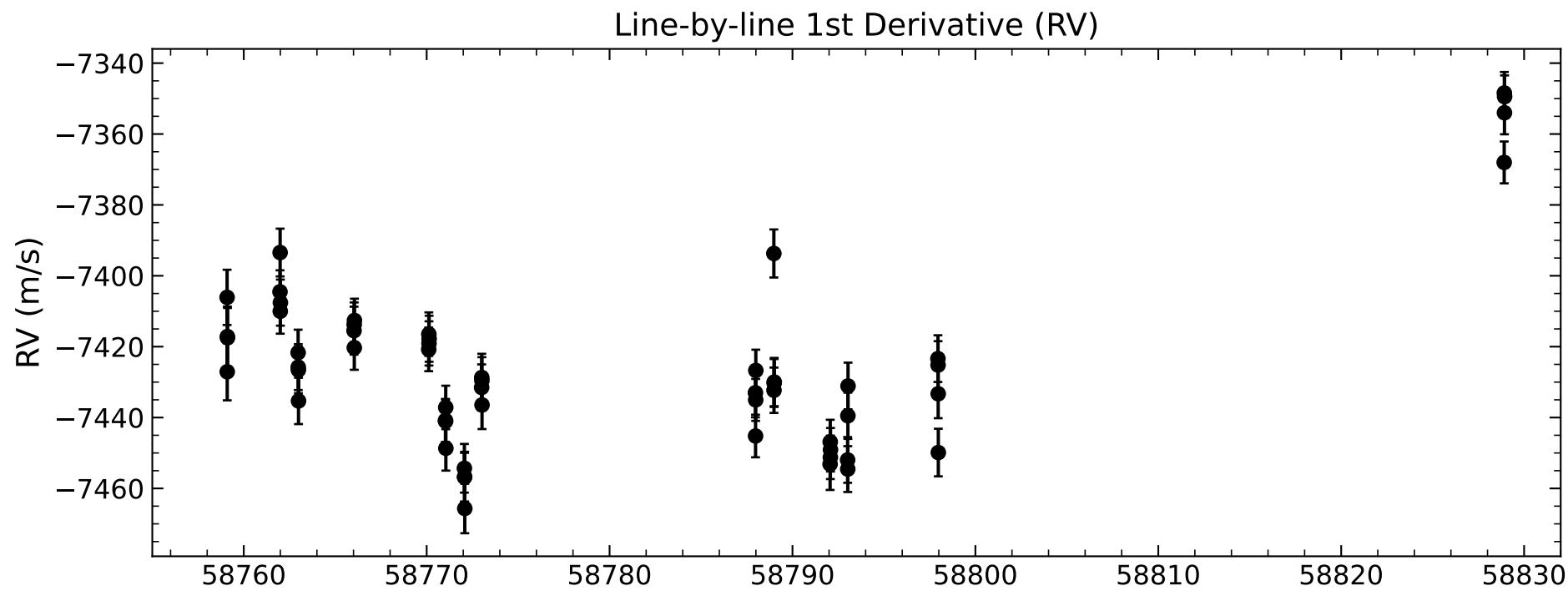


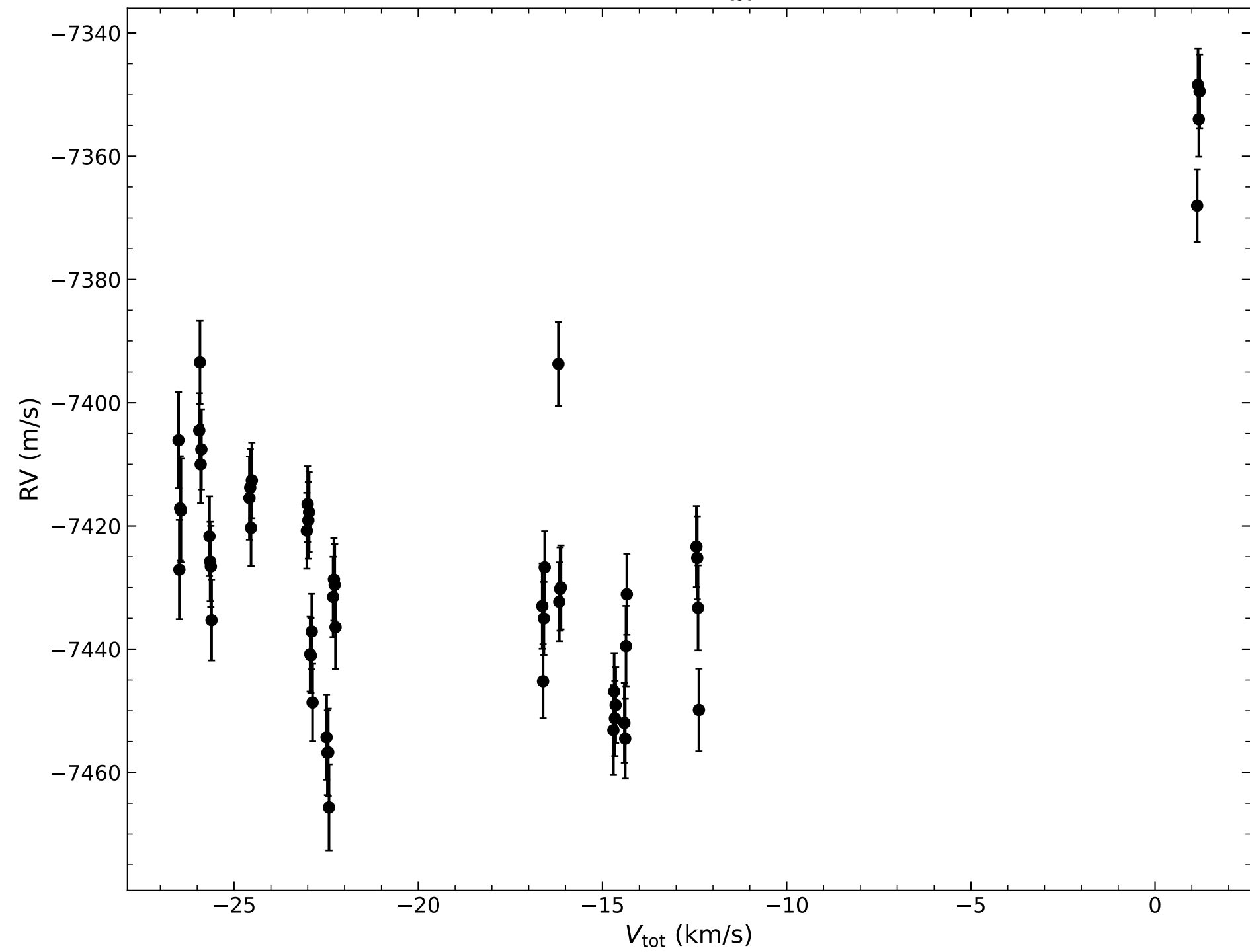
RV Curve



RV Curve (binned per night)





RV vs. V_{tot} 

RV vs. D2V

