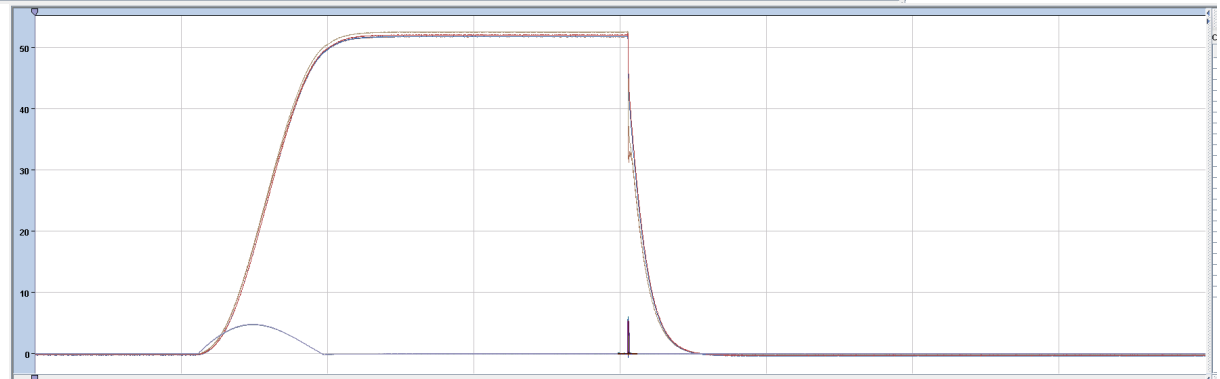
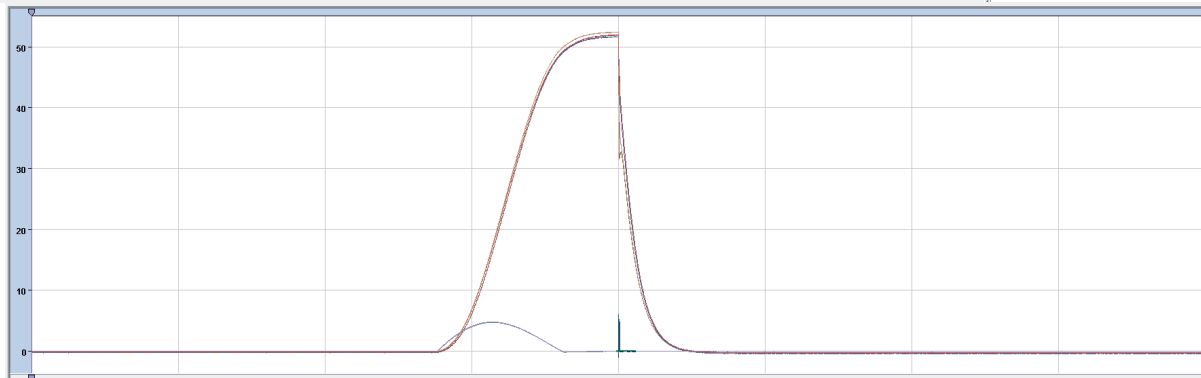
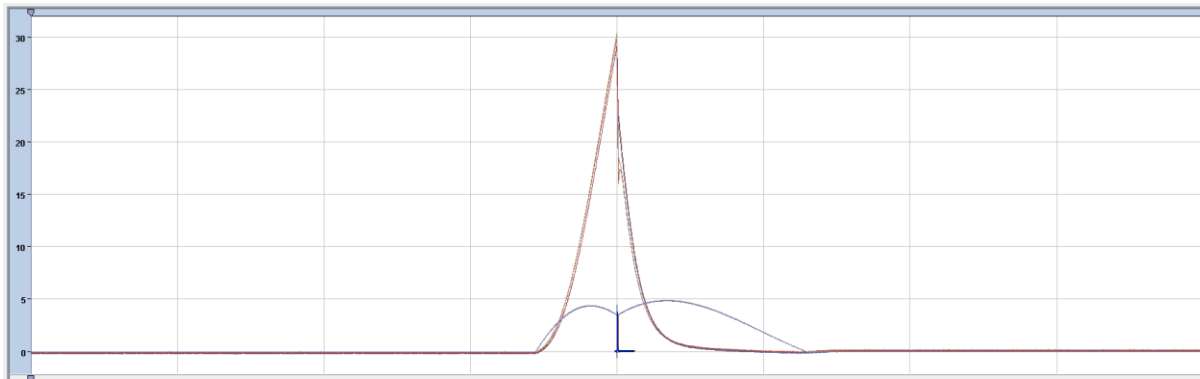
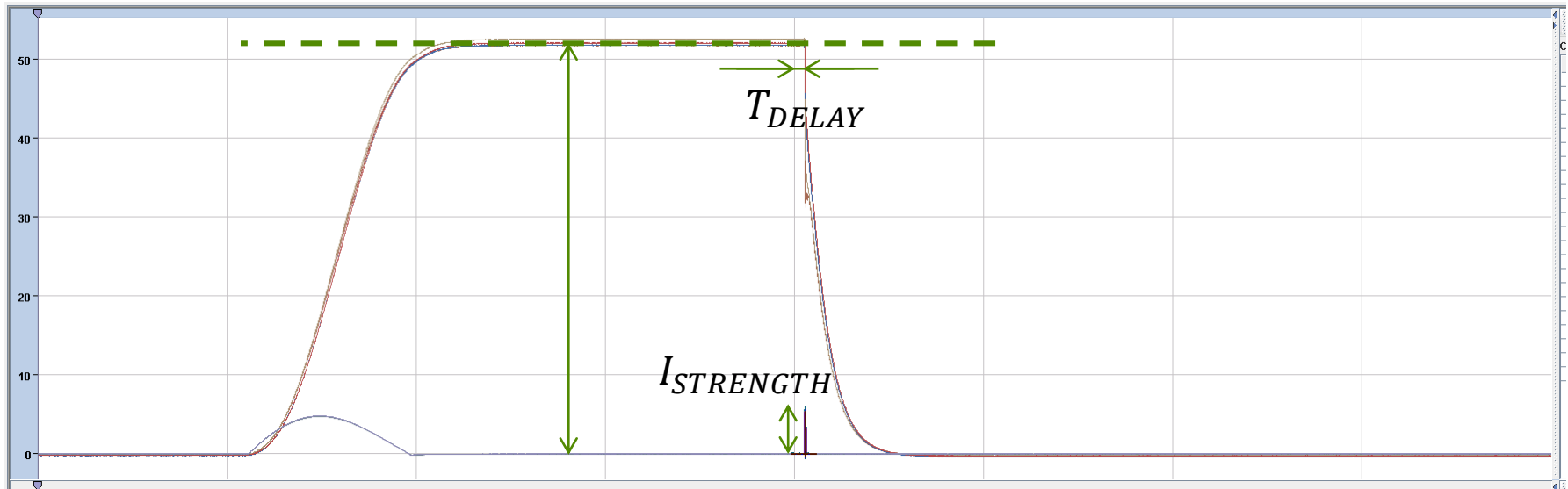


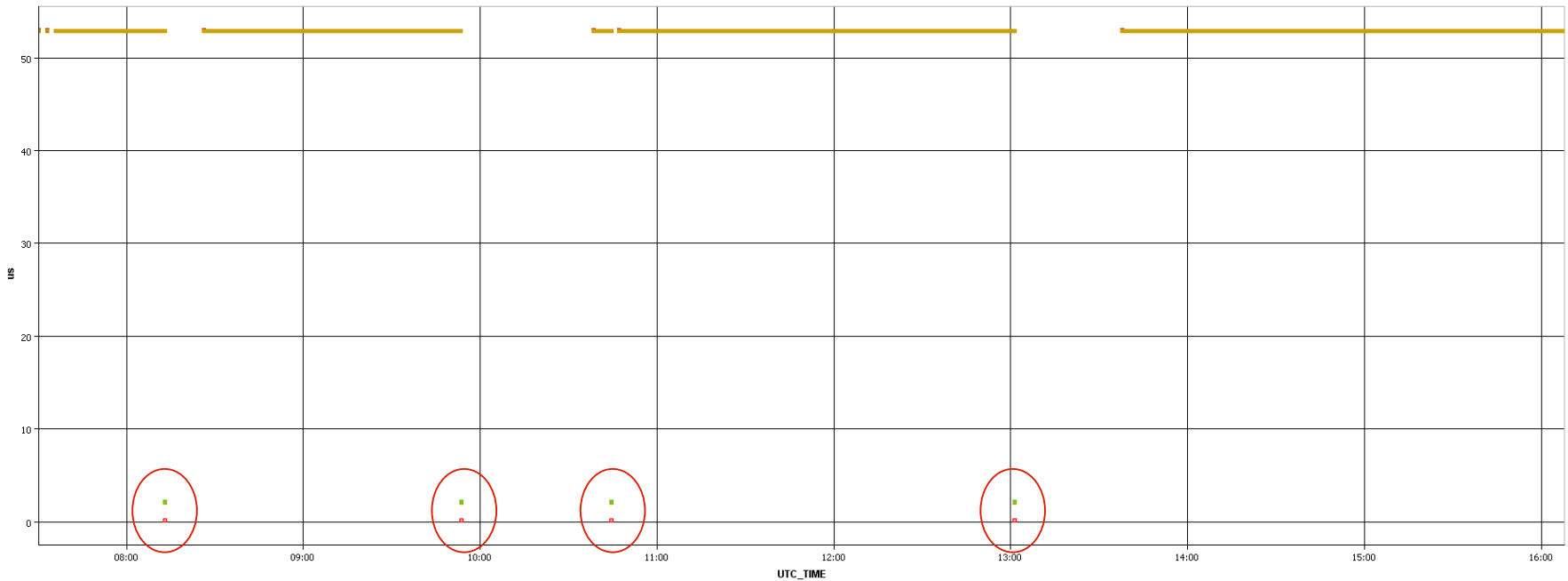
PFN-IPOC data analysis

1

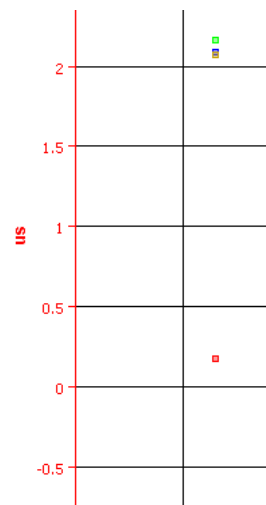




- Timestamp
- T_{DELAY}
- $I_{STRENGTH}$
- $KICK_STRENGTH_TOPLAY$ (slow)
- Waveforms (very slow)



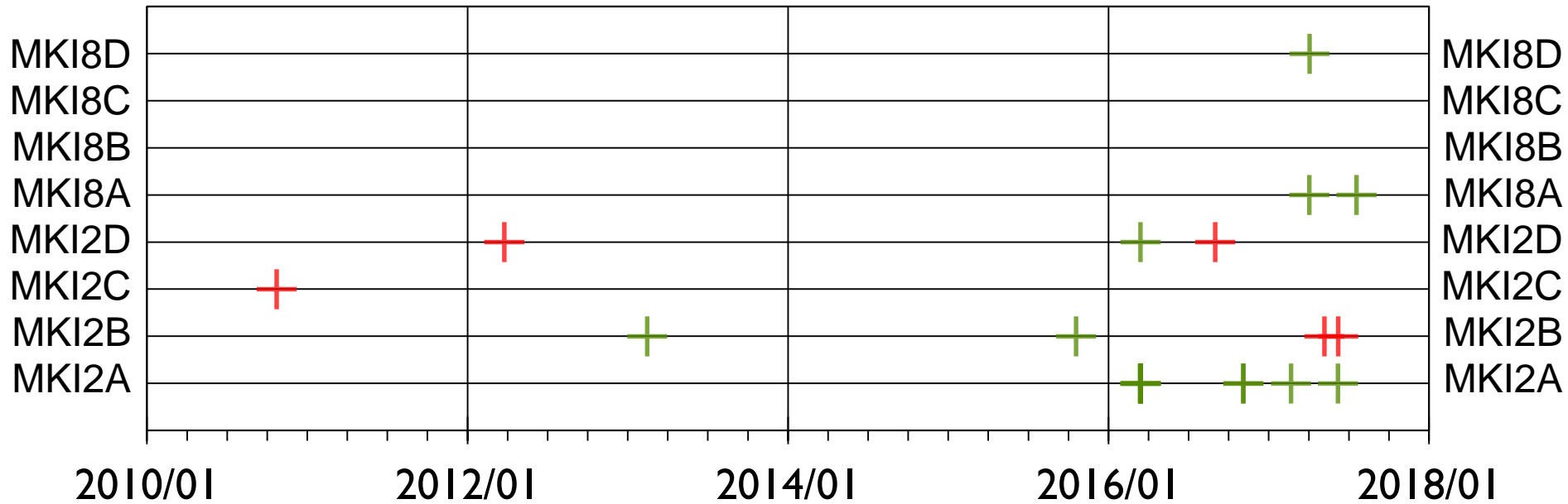
T_DELAY of all 4 MKI2 systems, 2016-03-16

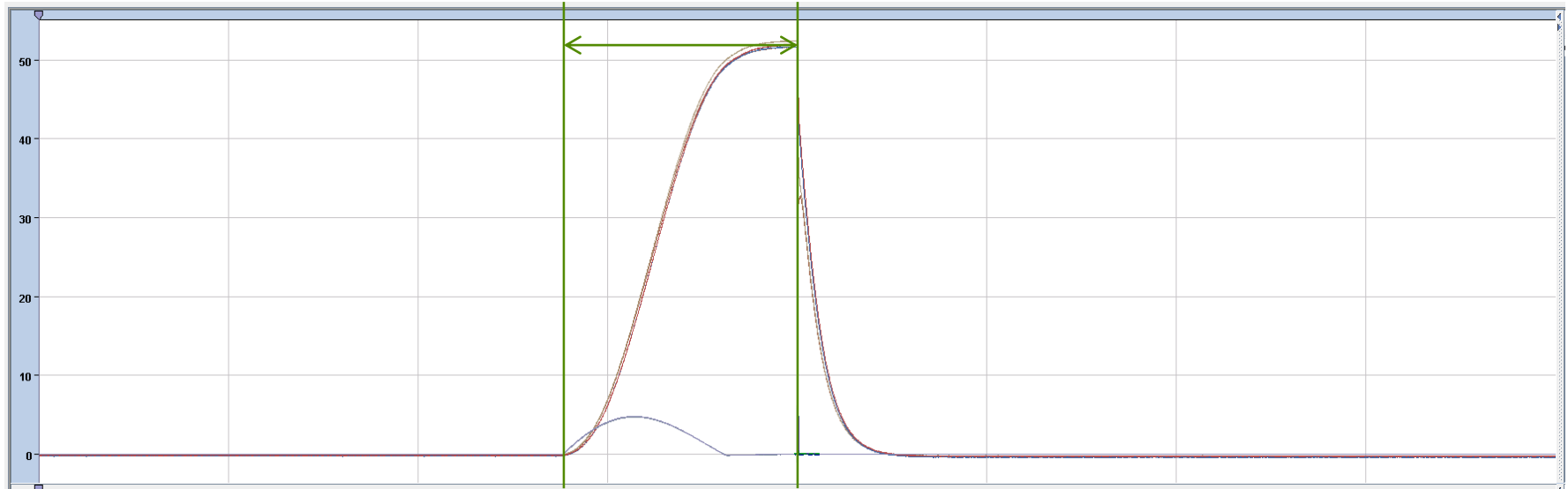


- Erratics T_DELAYs are spread out a lot more
- Distinguishable by 1 low 3 high pattern
- Separation of $2\mu\text{s}$

- Take the lowest point
- Sum the other points distance from the (lowest point + $2u_s$)
- If the sum is small enough and the lowest value was positive
 - Print erratic information

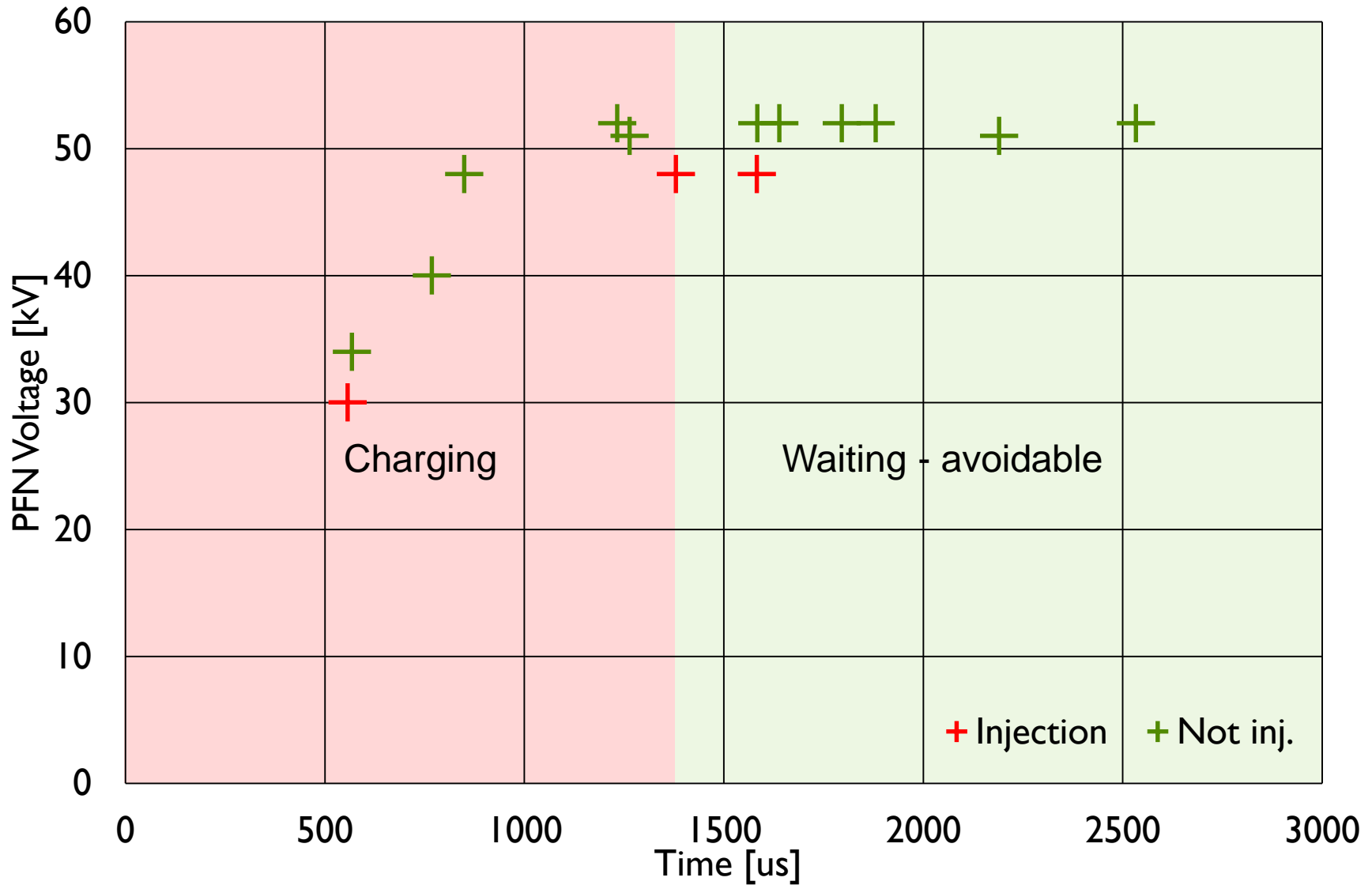
- Timestamp
- Previous event time distance
- Previous event T_DELAY
- Magnet system name
- Found events:
 - 20



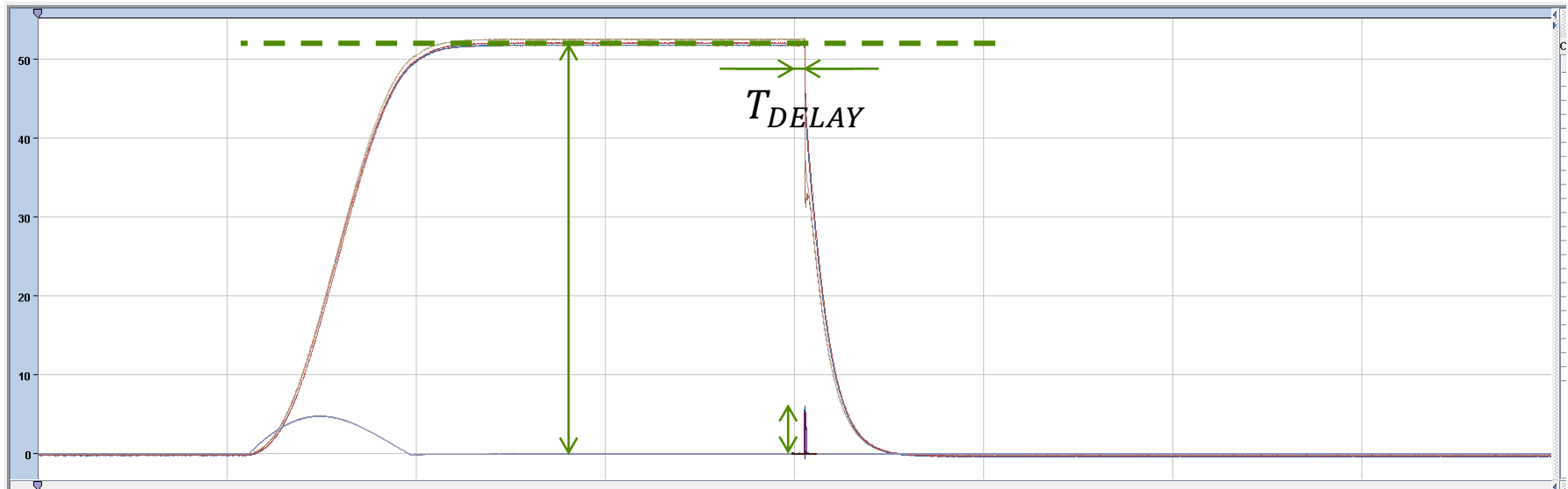


- Time between start of PFN charge and erratic

Time of erratic



- Concept
 - Look for cases when the kick strength was near 0
 - But T_DELAY is positive (many fake events)
- Problem
 - T_DELAY values are often missing



- Timestamp
- PFN Voltage flat top
- T_{DELAY}
- $I_{STRENGTH}$
- Req. PFN voltage
- Difference of produced and requested voltage