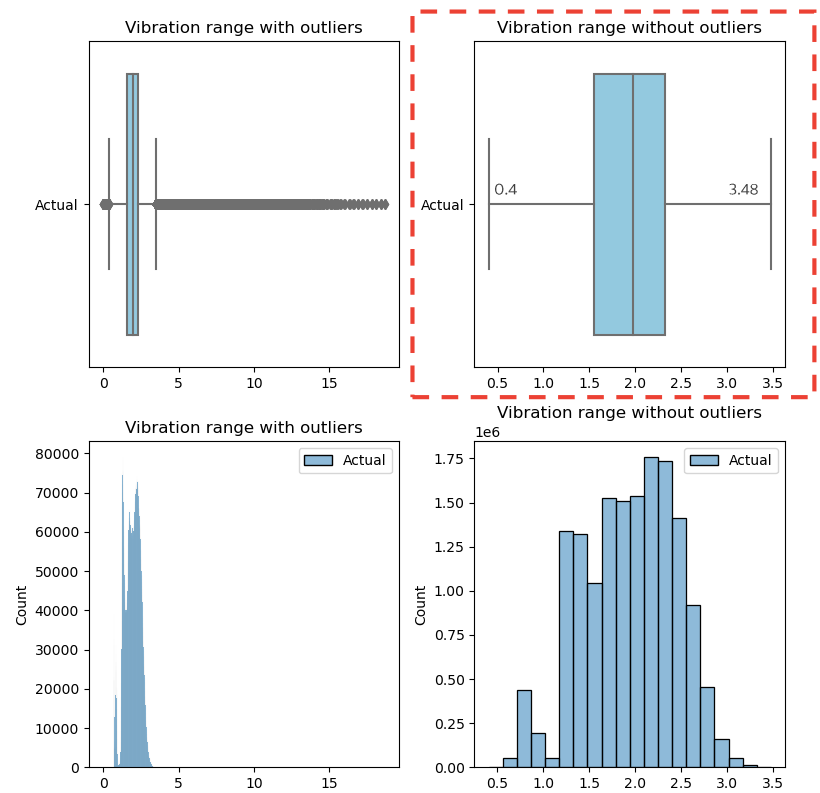


Statistical analysis to define appropriate alarm & alert boundary

PIC : Pakorn L.

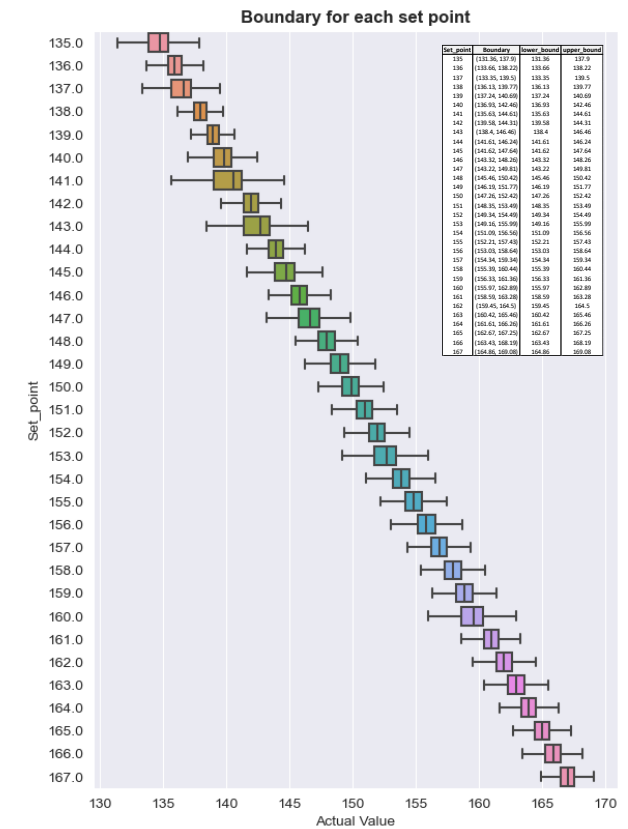
- Issue/Problem** : Current limitation points from standard are improperly defined -- too wide. Sensor value have never reached the limit and it may results in machine breakdown before detection.
- Solution** : Find normal operation range from statistical value calculated by using actual read data from sensor in PI system and use it as alarm boundary.
- Result** :

Vibration sensor PVC9-VI4501A2



Remark: data from the past 6 months

Current sensor PVC9-EIC4501B



Remark: data from the past 3 months

- Concern** : The data range is not accurate because the data is not cover all normal situation.
- Improvement** : Expand period of retrieving data.