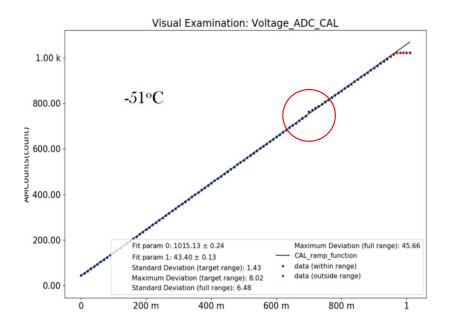
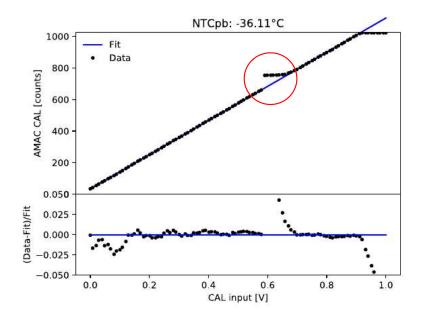
# QC Problem: discontinuity at 750 counts in AM Response graphs during cold electrical tests (< -30 °C)

- Cause: technology transition at 750 counts
  - Was present in AMACv2, much better in AMACstar



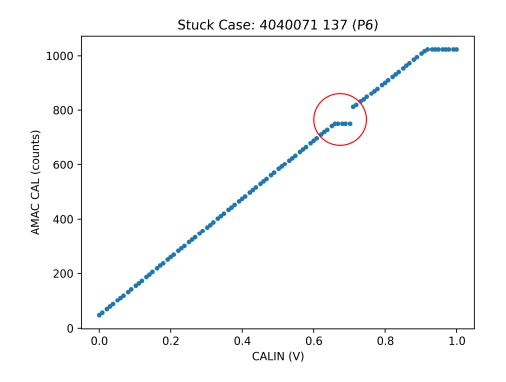


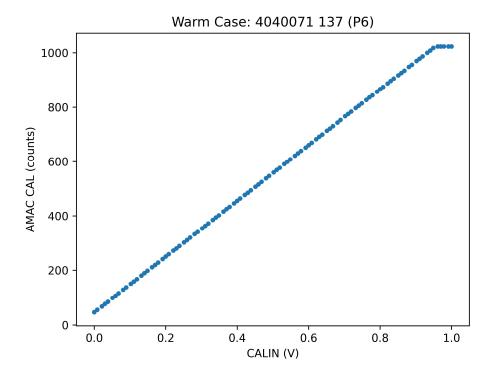
### Conclusion: Still issue in AMACstar

- 171/348 of boards (49%) have abnormalities in AM Response graphs during cold electrical tests (< -30 °C)</li>
- Difference: now an issue documented by Sam
  - Looked at cold and warm electrical tests after burn-in
    - All boards with accessible data in rackop/storage/.../results analysed
      - Most of Pre-Production B, but not all
  - Two types of abnormalities: "jump" and "stuck"

## 42/348 of boards (12%) get "stuck" at 750 counts Conditions:

- 1. two or more consecutive measurements of 750 counts
- 2. not visible in warm electrical tests





### 129/306 of boards (42%) "jump" over 750 counts

#### Conditions:

- 1. Step between nth and (n-1)th AMAC CAL value > 2\*Step between (n-1)th and (n-2)th AMAC CAL value
- 2. nth AMAC CAL value < 750 < (n-2)th AMAC CAL value
- 3. not visible in warm electrical tests
- 4. not a board previously flagged as getting "stuck"

