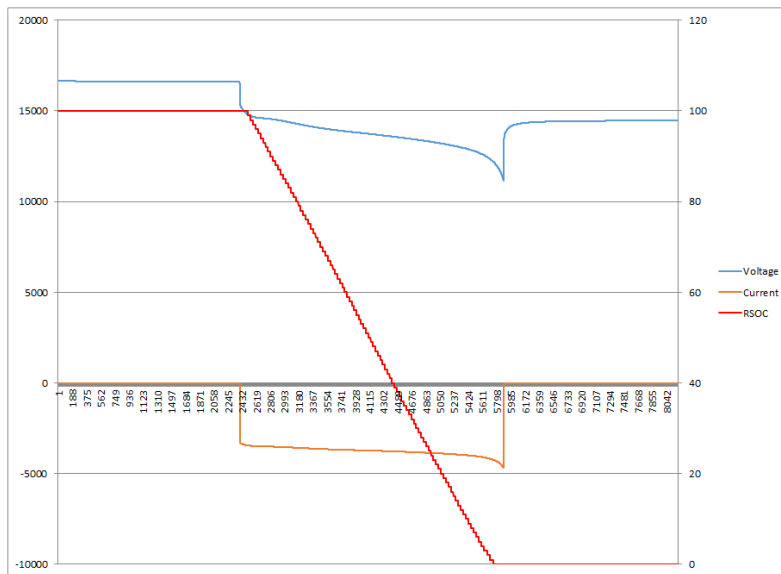


## TIDA-00553 Test Setup

- Hardware
  - bq40z60 EVM
  - Hewlett Packard E3631A power supply
  - Precision 8500 Electronic Load
  - A 4S2P Li-Ion battery pack
- Software
  - bqStudio for logging
- Test
  - Complete the optimization cycle to update the Ra table and Qmax.
  - Charge the pack to full.
  - Discharge the pack to empty at a 4000mA rate, while logging data.

## bq40z60 Gauging Accuracy

The bq40z60 provides very good gauging accuracy after the optimization cycle has been completed.



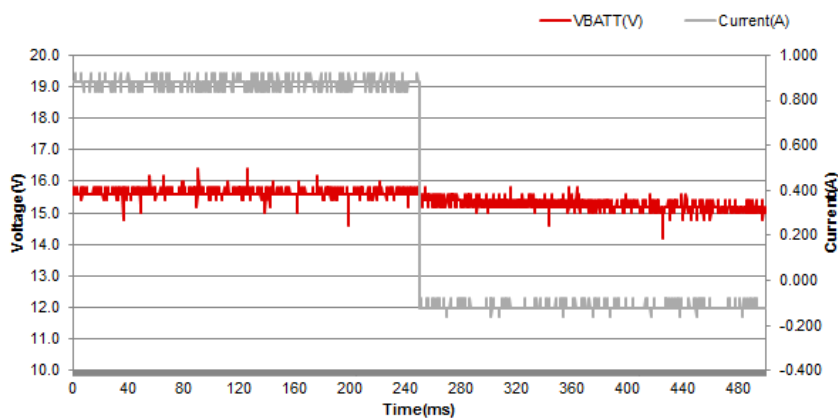
Cell configuration: 4S2P  
 Discharge current: 4A  
 Charge current: 800mA

## TIDA-00553 Test Setup

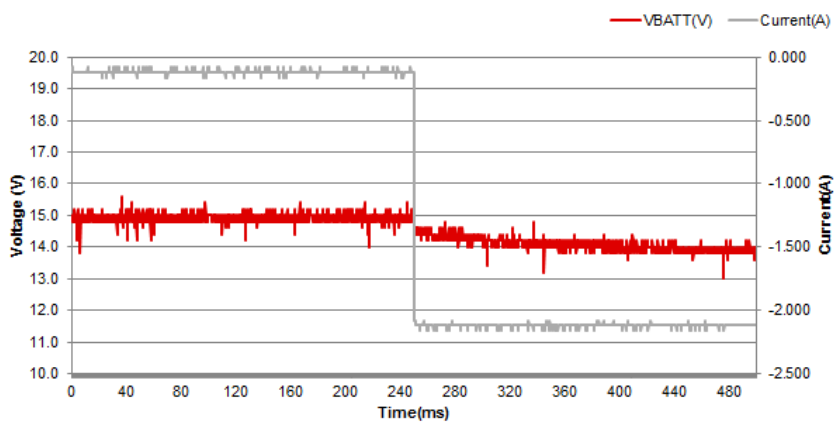
- Hardware
  - bq40z60 EVM
  - Hewlett Packard E3631A power supply
  - Precision 8500 Electronic Load
  - A 4S2P Li-Ion battery pack
- Software
  - bqStudio to enable charger
- Test
  - A discharge current is applied when the charger is ON, the plot shows the moment when the discharge current is applied.

## Charger Load Transient Response

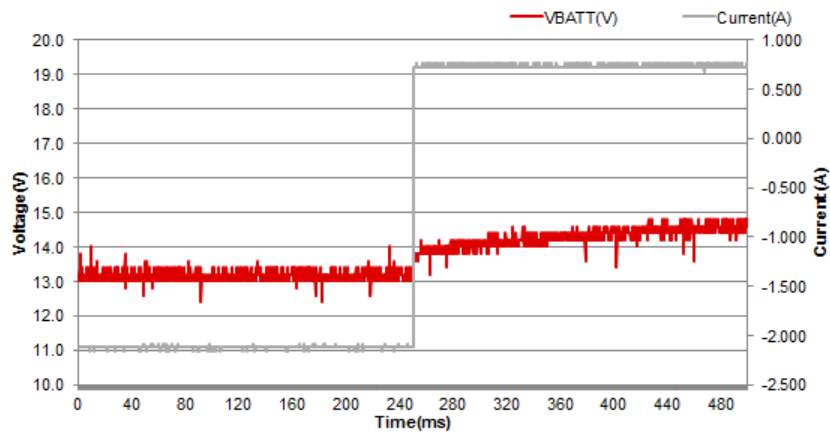
### Load Transient with charger 0A - 1A



### Load Transient with charger 1A - 3A



## Load Transient with charger 3A – 0.15A



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