DSG-GEM R&D Meeting Minutes

Date: April 5, 2021
Time: 11:00 – 12:00

Attendees: *Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Tyler Lemon, Marc McMullen, and Amrit Yegneswaran*

1. **Assembly of Super BigBite Spectrometer's supply gas flow chassis**
   George Jacobs, Mindy Leffel, Tyler Lemon, and Marc McMullen,
   1. Testing will start this week on the first two gas flow sensor chassis to verify whether the multiplexers and sensors are working properly and whether-the software works with multiple multiplexers

2. **Testing of BigBite gas distribution system**
   Marc McMullen, George Jacobs, and Brian Eng
   1. Gas flow test of six gas channels was conducted on 03/30/21 for one hour
      - Four standard flow channels set at 351 to 360 sccm
      - Two high flow channels set at 562 to 582 sccm

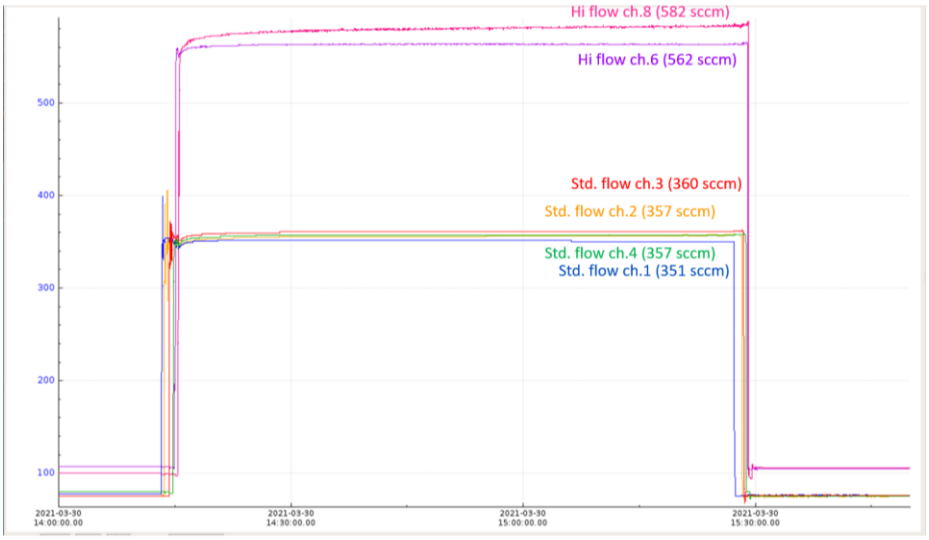

Figure 1. MYA archive data from the flow test on 03/30/21

   2. Connected prototype exhaust flow sensor multiplexer and gas flow sensor chassis to the I^2C bus of the BigBite Raspberry Pi
      - Starting software testing this week to ensure connectivity and readback
   3. DSG is designing an overpressure protection circuit

3. **Developing supplemental gas distribution system**
   Marc McMullen, George Jacobs, and Brian Eng
   1. Completed first fabrication drawing of the chassis

4. **Fabricating signal cables**
   Mindy Leffel
   1. Terminated 20 of 60 LEMO-to-LEMO cables