**δC-CH4 Post Run Checklist and Quick Start Guide to Troi**

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| Post run evaluation | Acceptable Value | Location/Column |
| 1. Standard deviation of reference sets | <0.1‰ | AL |
| 1. Trap average and standard deviation | <0.1‰ | AL |
| 1. How many pair differences? | Mention if more than 5 | AN |

Starting the next run

1. Crunch the data (see above) and save old message log
2. Unload previous samples, stamping sample sheet
3. Load more samples
4. Change the liquid nitrogen tank, a new one each run
5. Pump out up to closed samples, flasks, tank lines, or PFP cases
6. Take out capillary out of ethanol, wait a few minutes to defrost and put back in
7. Wait a few minutes, check to make sure vacuum held for samples/water trap/tank lines
8. Tune with a center scan at the very least, others if needed
9. Make session, paste into IonVantage and check for correct samples/ports (change warmups from 3 to 43!)
10. Start, go through prompts
11. After confirming the first sample went ok, open flasks! Visually check that tanks and PFPs are correctly plugged in

Weekly Checkups (on Monday/Tuesday)

1. Confirm that there is more than 500 psia in both the manifold and open split helium tanks
2. Run precon inject/load red and green. Confirm there is no peak
3. Run stabilities and confirm <0.3‰