**δC-CO2 Post Run Checklist and Quick Start Guide to Amos and T’Pol**

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| Post run evaluation | Acceptable Value | Location/Column |
| 1. Paste reference tank data to performance file |  | Performance File |
| 1. Standard deviation of reference sets | <0.015/<0.035‰ | AN/AO |
| 1. Trap average and standard deviation | <0.015/<0.035‰ | AN |
| 1. Mean standard error of **δ**45 | ~0.005‰ | L |
| 1. Max standard error **δ**45 | <0.02‰ | L |
| 1. Mean standard error of **δ**46 | ~0.008‰ | N |
| 1. Max standard error **δ**46 | <0.02‰ | N |
| 1. Drift of mean **δ**45 | ~0.1/0.15‰ | Z/AA |
| 1. How many pair differences? | Mention if more than 3 | AN-AO |

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. Replace the water trap
   1. Does the ethanol look too murky/slushy? Change it if so
5. Pump out the water trap
6. Confirm there is enough liquid nitrogen for the next run, over half full is good
7. Pump out up to closed samples, flasks, tank lines, or PFP cases
8. Wait a few minutes, check to make sure vacuum held for samples/water trap/tank lines
9. Tune with a center scan at the very least, others if needed
10. Make session, paste into IonVantage and check for correct samples/ports
11. Start, go through prompts
12. After confirming the first sample went ok, open flasks! Visually check that tanks and PFPs are correctly plugged in