Conditioning Report

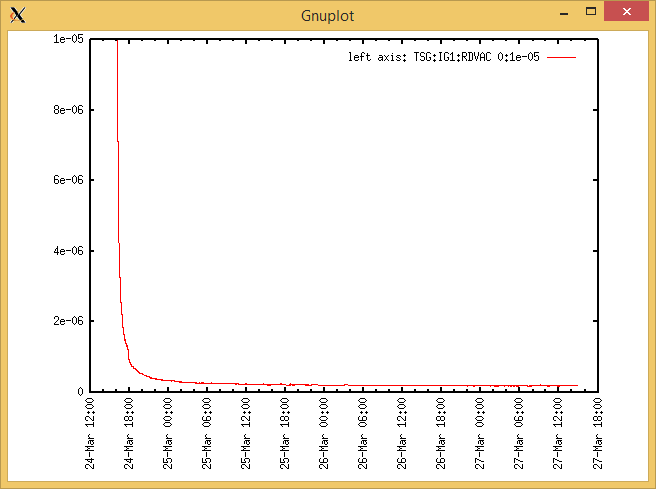
|  |  |  |
| --- | --- | --- |
| Target material and number | | Ta#51 |
| Target WO-SN | | 41790-4 |
| Operator name | | Aaron Schmidt |
|  | |  |
| Heating start date and time | | 2017-03-28 13:01 |
| BIAS | |  |
| Voltage [kV] | | 30 |
| Current [µA] | | 49 |
| Extraction Electrode (EE) | |  |
| Voltage [kV] | | 1.5 |
| Current [µA] | | 501 |
| TGHT | |  |
| Current [A] | | 581.7 |
| Voltage [V] | | 7.114 |
| TBHT | |  |
| Current [A] | | 228.9 |
| Voltage [V] | | 2.586 |
| FEBIAD ANODE | |  |
| Voltage [V] | | - |
| Current [mA] | | - |
| FEBIAD COIL | |  |
| Current [A] | | - |
| Voltage [V] | | - |
| Flow and Temperature HS + MSP | |  |
| Flow [lpm] | | 3.82 |
| Temperature increase [C] | | 9.4 |
| FC6 currents [A] | | 5.53e-10 |
| SIS | 7Li | 1.21e-12 |
| FEBIAD | 20Ne | - |
| SIS | 23Na | 3.44e-10 |
| SIS | 39K | 1.17e-09 |
| SIS | 85Rb | 1.75e-10 |
| SIS | 133Cs | 3.31e-10 |
| Heating end date and time | | 2017-03-30 08:42 |

Comments

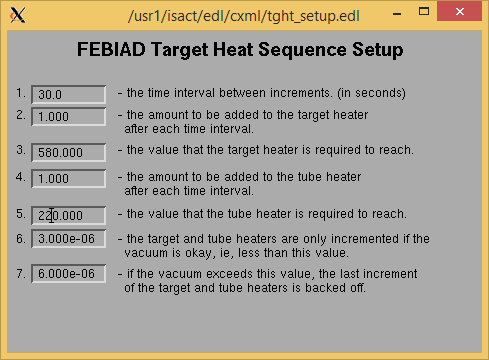
* Monday, March 27, 2017, 09:50: Troubleshooting: Sources/Optics non-responsive. Controls group fixed : Tuesday, March 28, 2017, 12:57
* Wednesday, March 29, 2017, 15:15: E-rig power supply failed. Pop sound and electrical smoke/smell noticed.

Plots

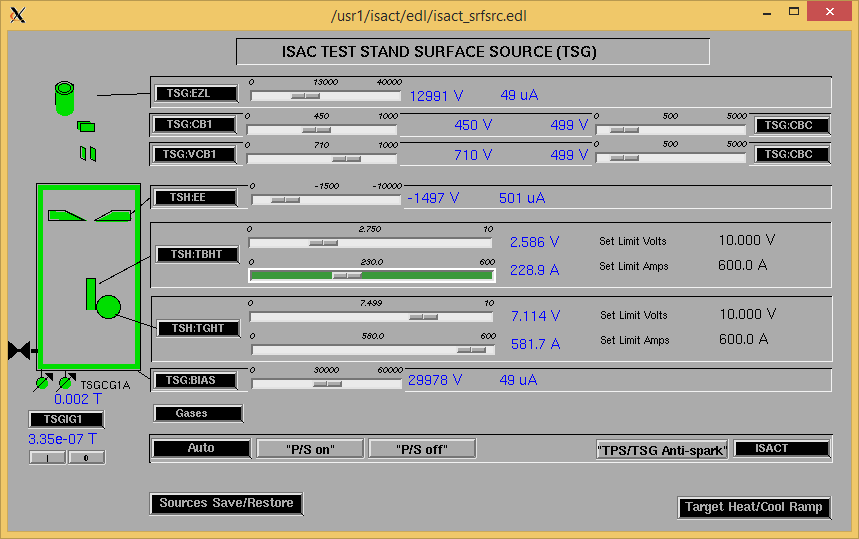
8h Vacuum Pump Down



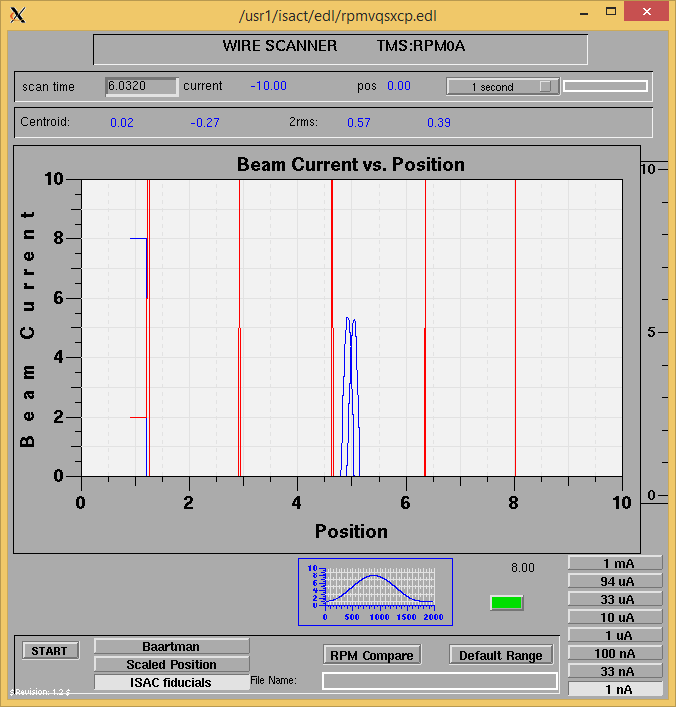
Target Heat Sequence Setup

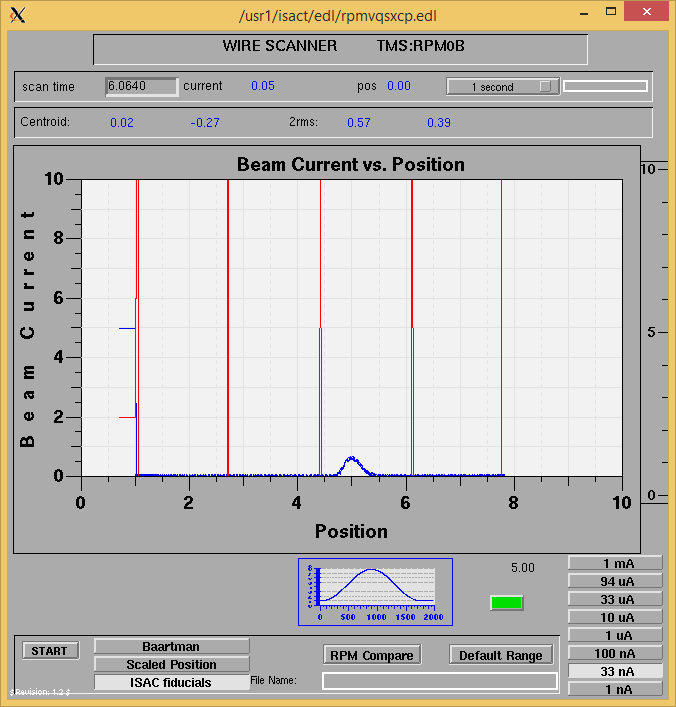


Source Tuning

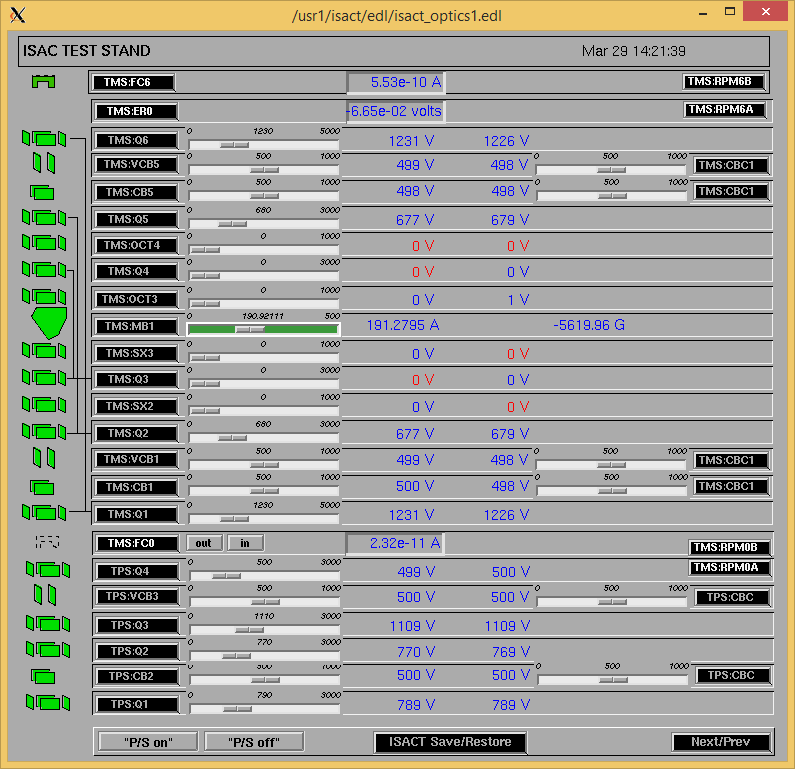


Wire Scanners RPM0A and RPM0B





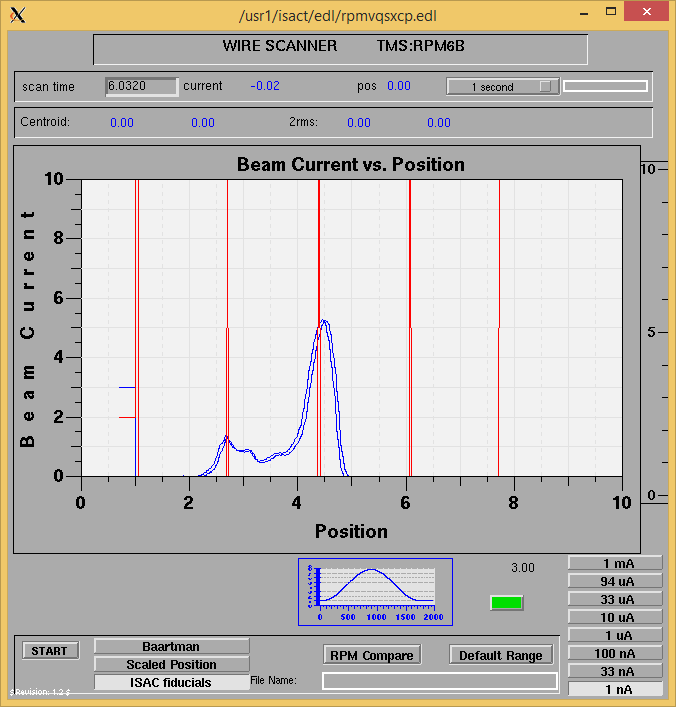
Optics Tuning



Mass 133

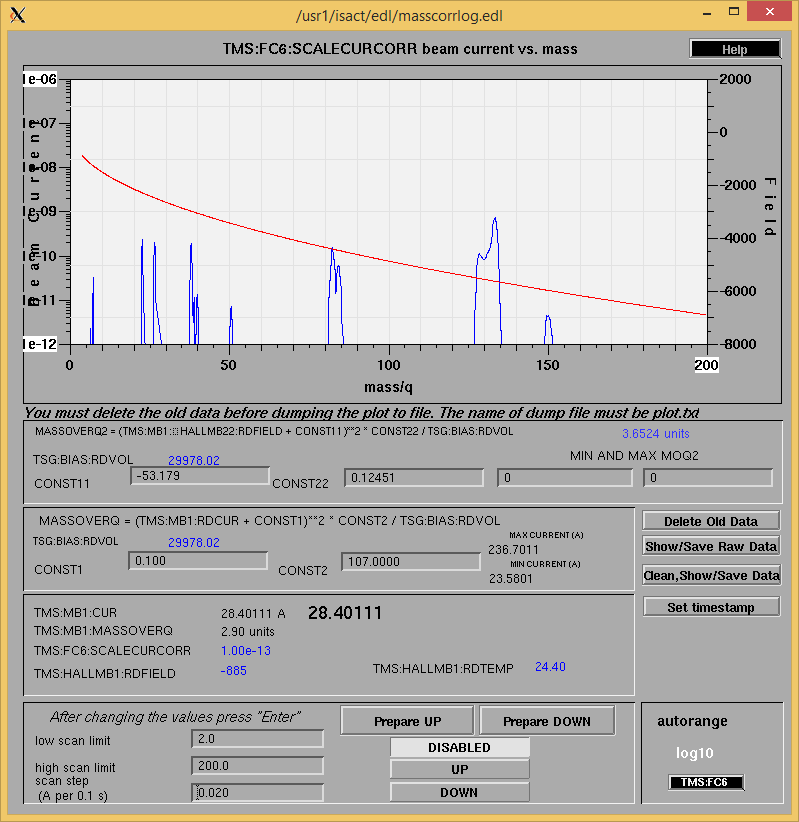
Wire Scanners RPM6A and RPM6B

Mass 133



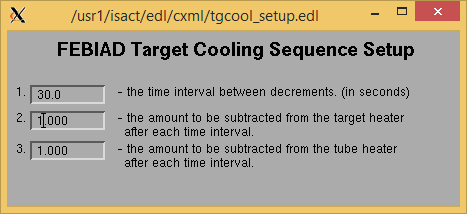
Mass 133

Mass Scan



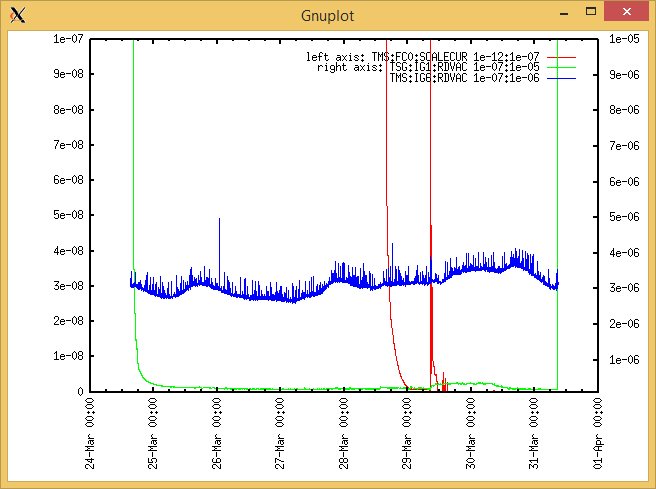
<http://isacwserv.triumf.ca/onlylocal/isactdata/save_restore/masscorr/2017-03-29-13-53%20Ta%2351>

Cooling Parameters

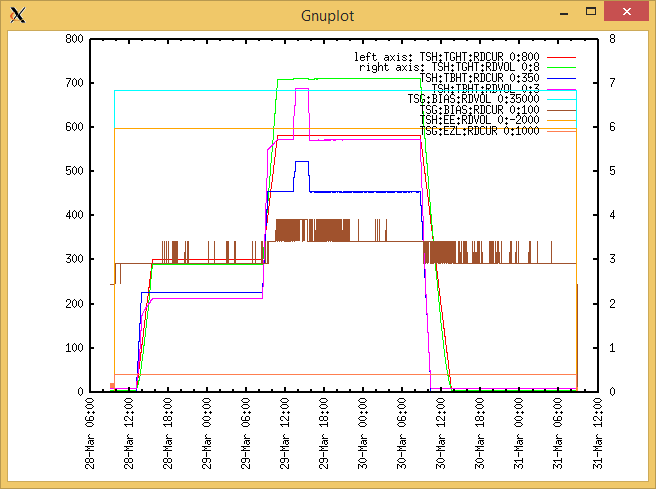


Overview Plots

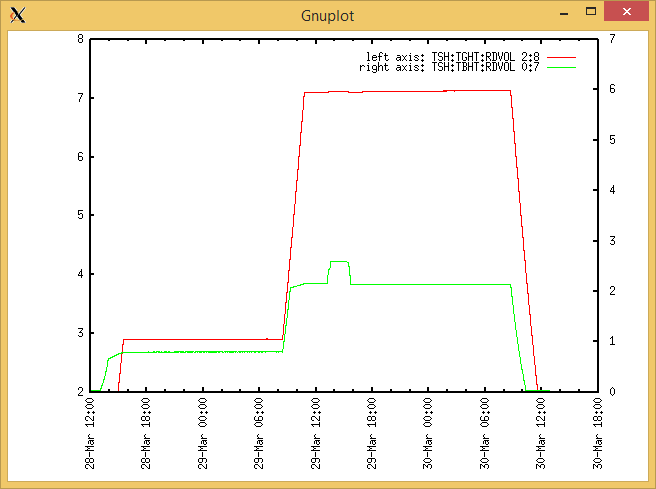
Vacuum and FC0



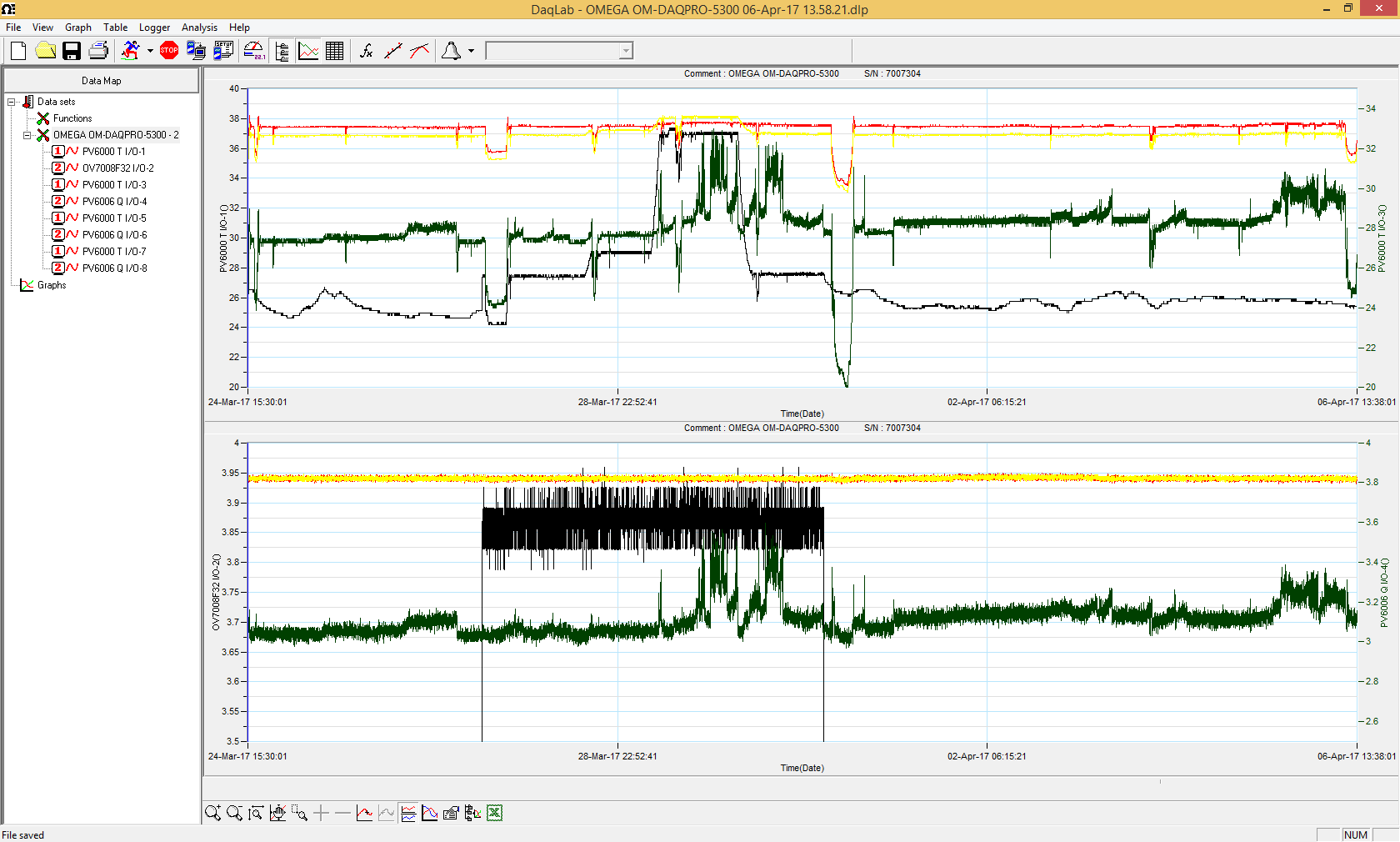
Heating, EE and BIAS



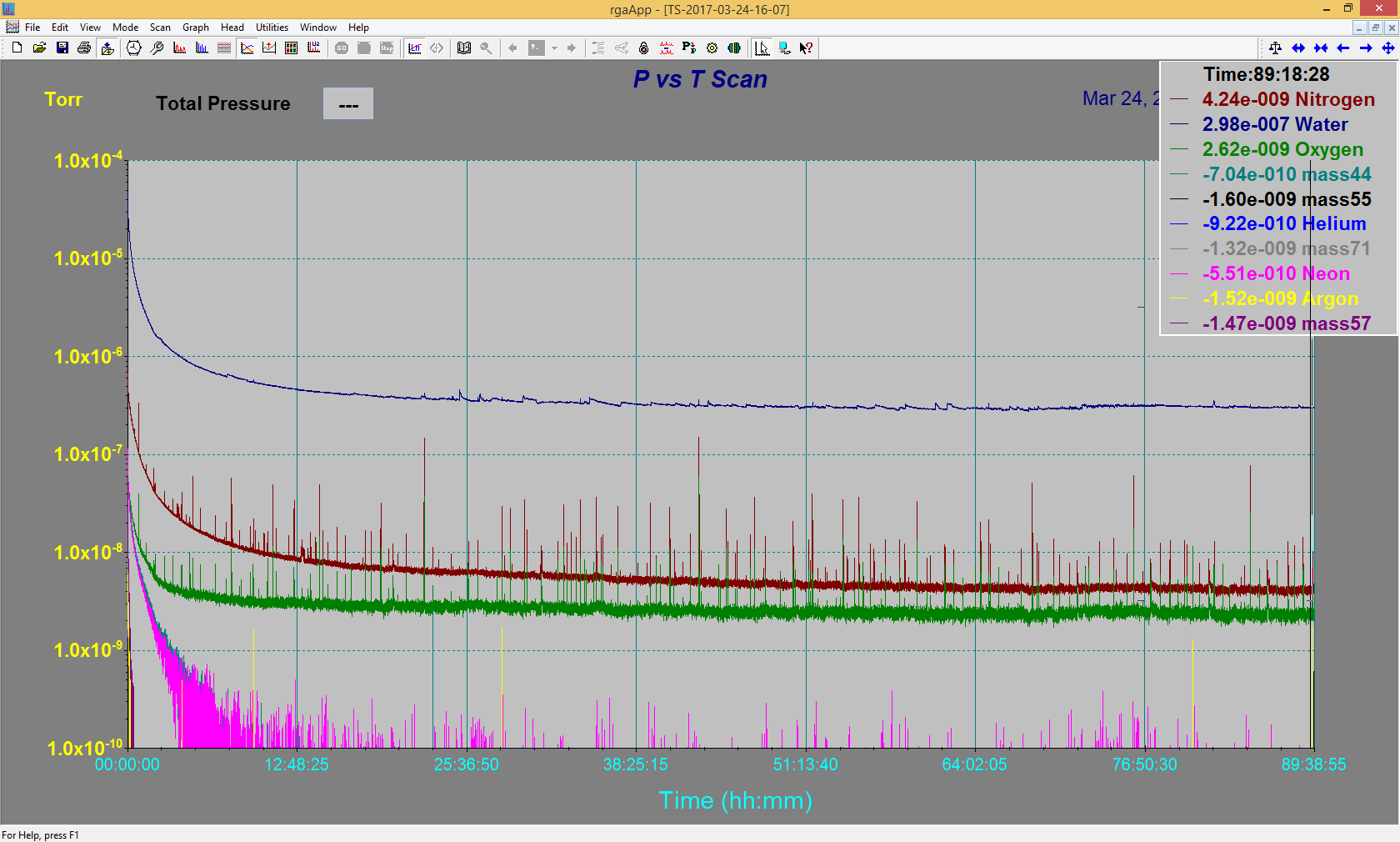
TGHT and TBHT Voltage

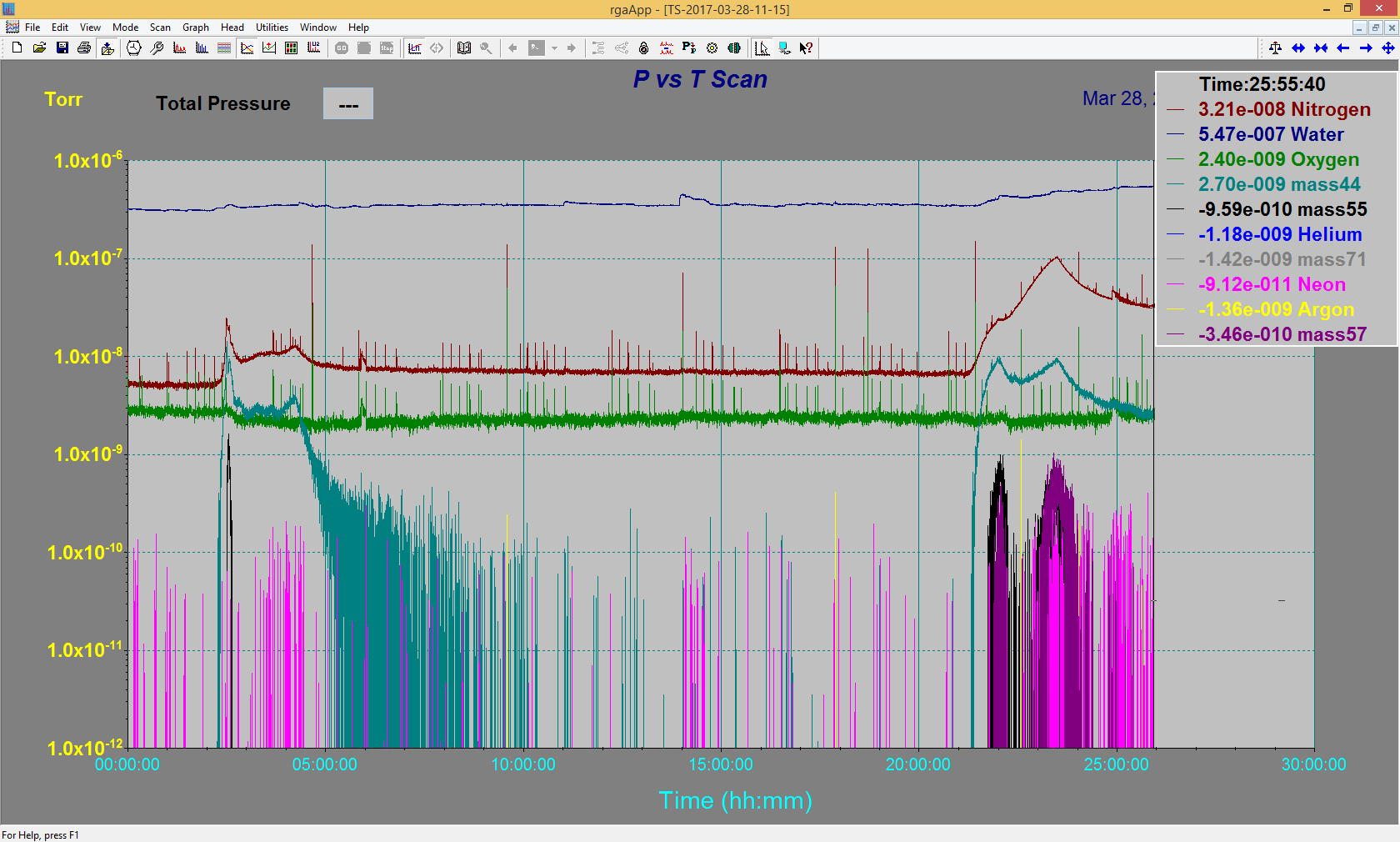


Flow and cooling water temperatures

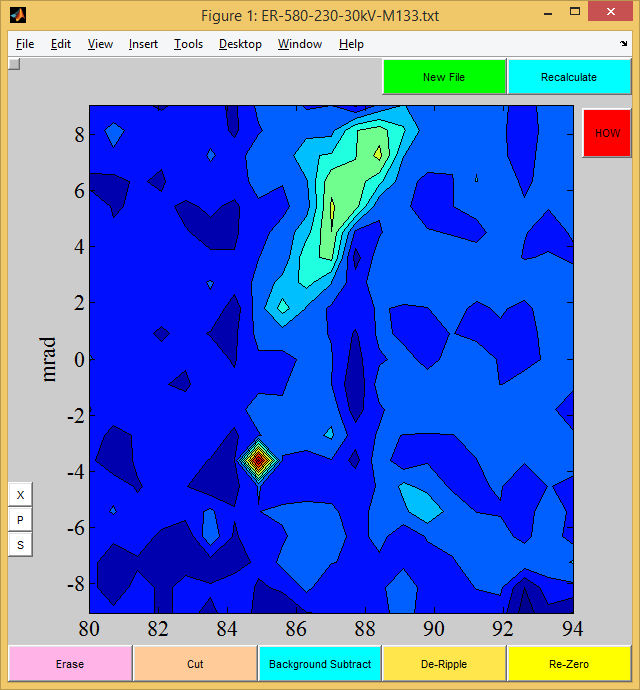


RGA





Emittance Scan



Mass 133

