Conditioning Report

|  |  |  |
| --- | --- | --- |
| Target material and number | | Ta#(Spare) |
| Target WO-SN | | 42218-11 |
| Operator name | | Aaron Schmidt |
|  | |  |
| Heating start date and time | | 2017-07-07 07:42 |
| BIAS | |  |
| Voltage [kV] | | 30 |
| Current [µA] | | 37 |
| Extraction Electrode (EE) | |  |
| Voltage [kV] | | 1.5 |
| Current [µA] | | 515 |
| TGHT | |  |
| Current [A] | | 581.7 |
| Voltage [V] | | 7.131 |
| TBHT | |  |
| Current [A] | | 198.7 |
| Voltage [V] | | 2.176 |
| FEBIAD ANODE | |  |
| Voltage [V] | | 50\* |
| Current [mA] | | 0\* |
| FEBIAD COIL | |  |
| Current [A] | | - |
| Voltage [V] | | - |
| Flow and Temperature HS + MSP | |  |
| Flow [lpm] | | 3.77 |
| Temperature increase [C] | | 10.50 |
| FC6 currents [A] | | 2.17e-07 |
| SIS | 7Li | 4.96e-09 |
| FEBIAD | 20Ne | - |
| SIS | 23Na | 1.71e-08 |
| SIS | 39K | 5.22e-09 |
| SIS | 85Rb | 1.05e-09 |
| SIS | 133Cs | 7.57e-09 |
| Heating end date and time | | 2017-07-08 13:50 |

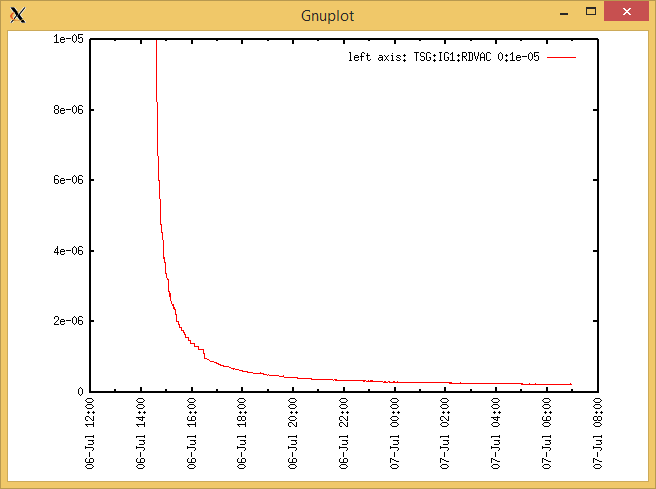
Comments

-This is a spare Tantalum LP-SIS Target assembly for Target Ta#52

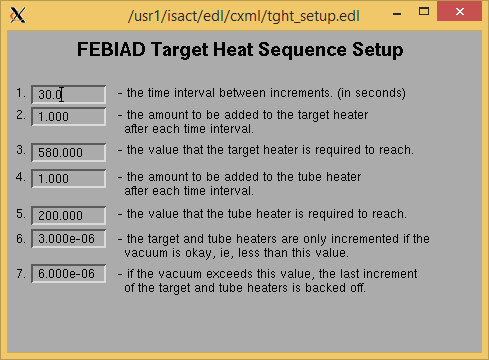
-FEBIAD Anode brought up to 50 V using FEBIAD TS controls. No current detected. No short detected during heating.

Plots

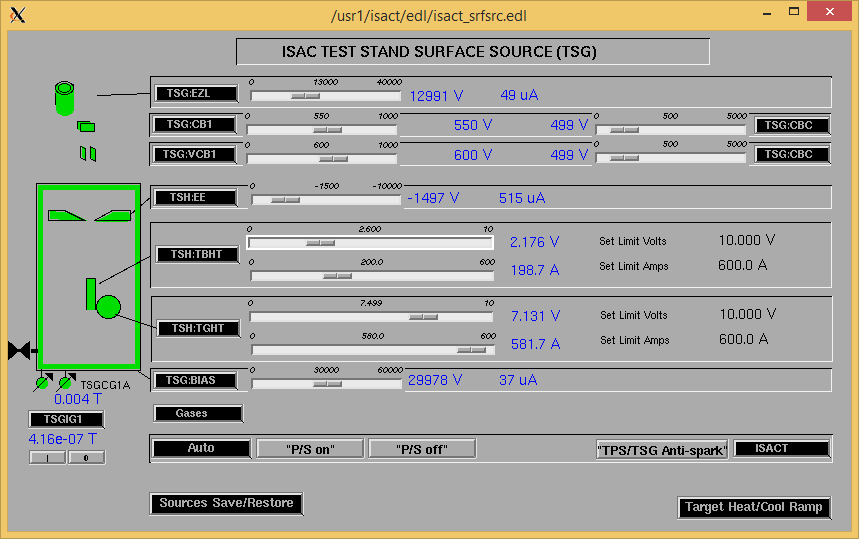
8h Vacuum Pump Down



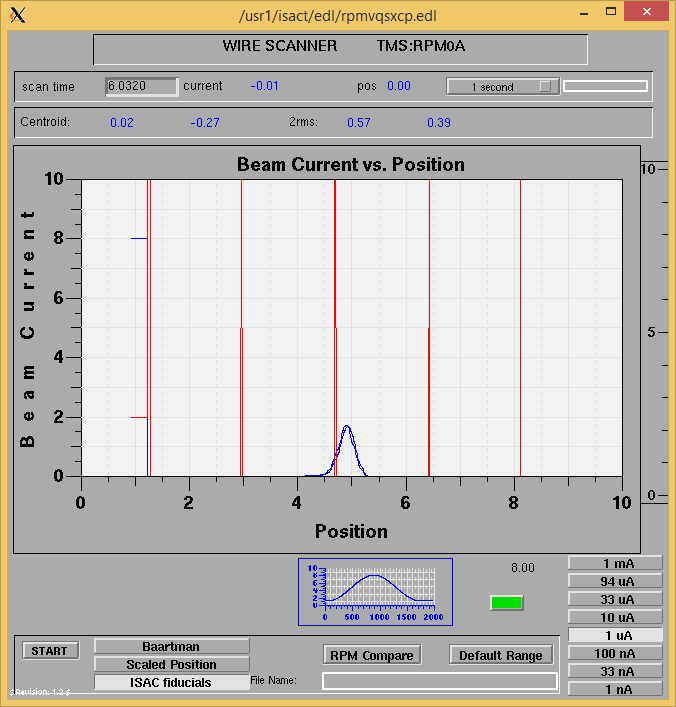
Target Heat Sequence Setup

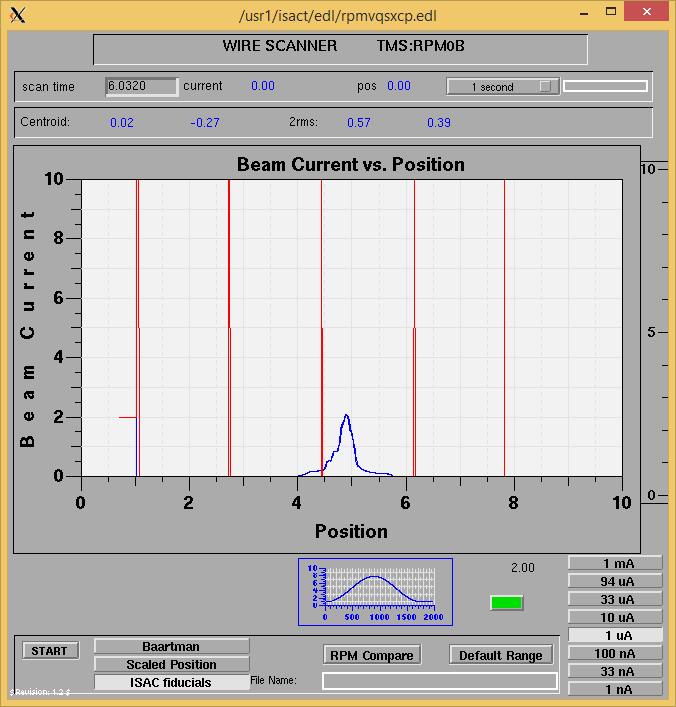


Source Tuning



Wire Scanners RPM0A and RPM0B



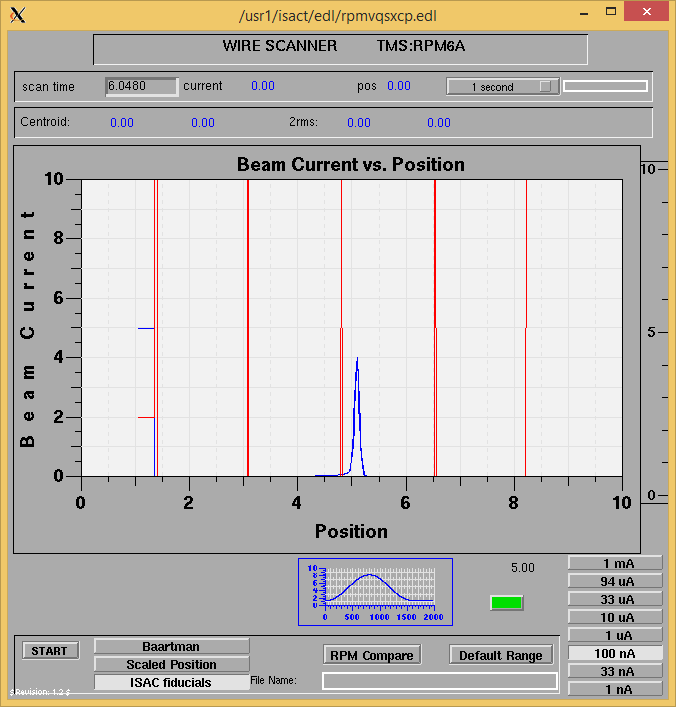


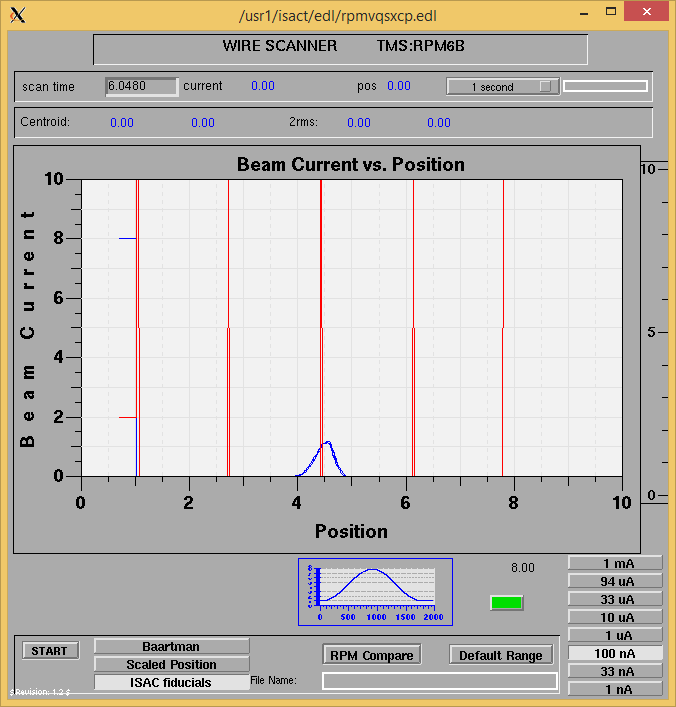
Optics Tuning



Wire Scanners RPM6A and RPM6B

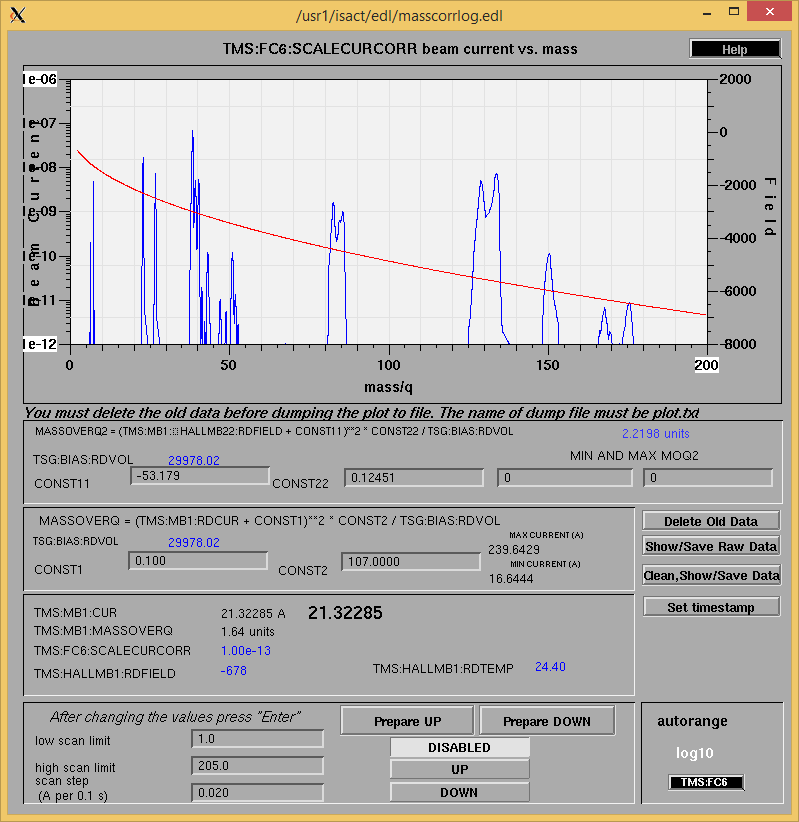
Mass 23





Mass 23

Mass Scan



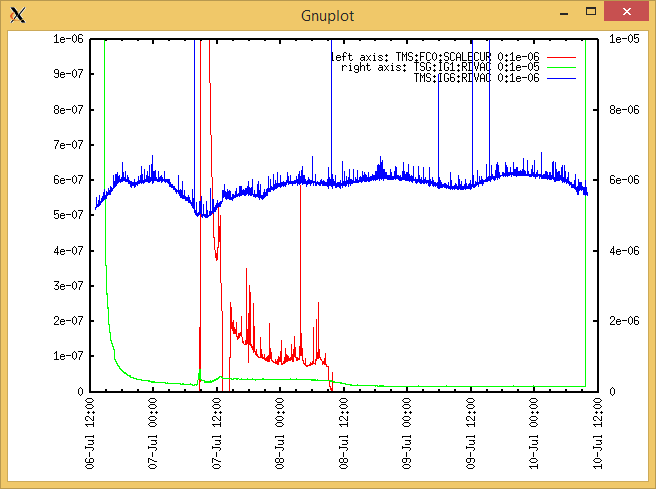
<http://isacwserv.triumf.ca/onlylocal/isactdata/save_restore/masscorr/2017-07-07-13-13%20Spare%20Ta%20LP-SIS%20>

Cooling Parameters

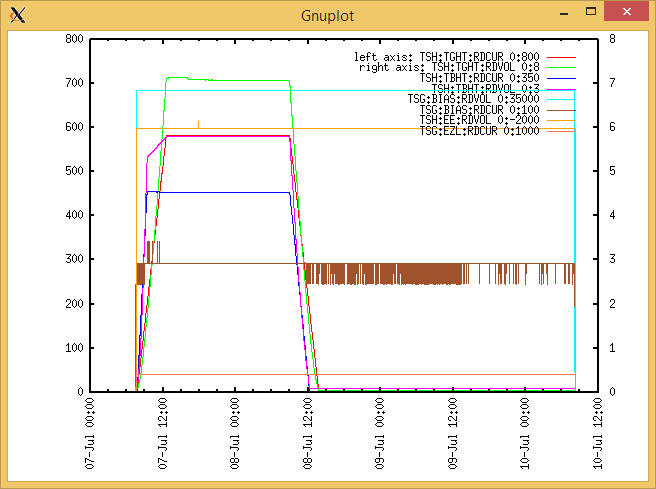


Overview Plots

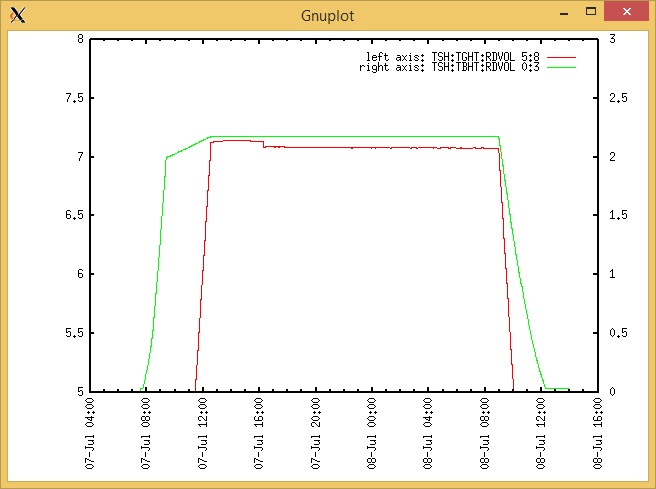
Vacuum and FC0



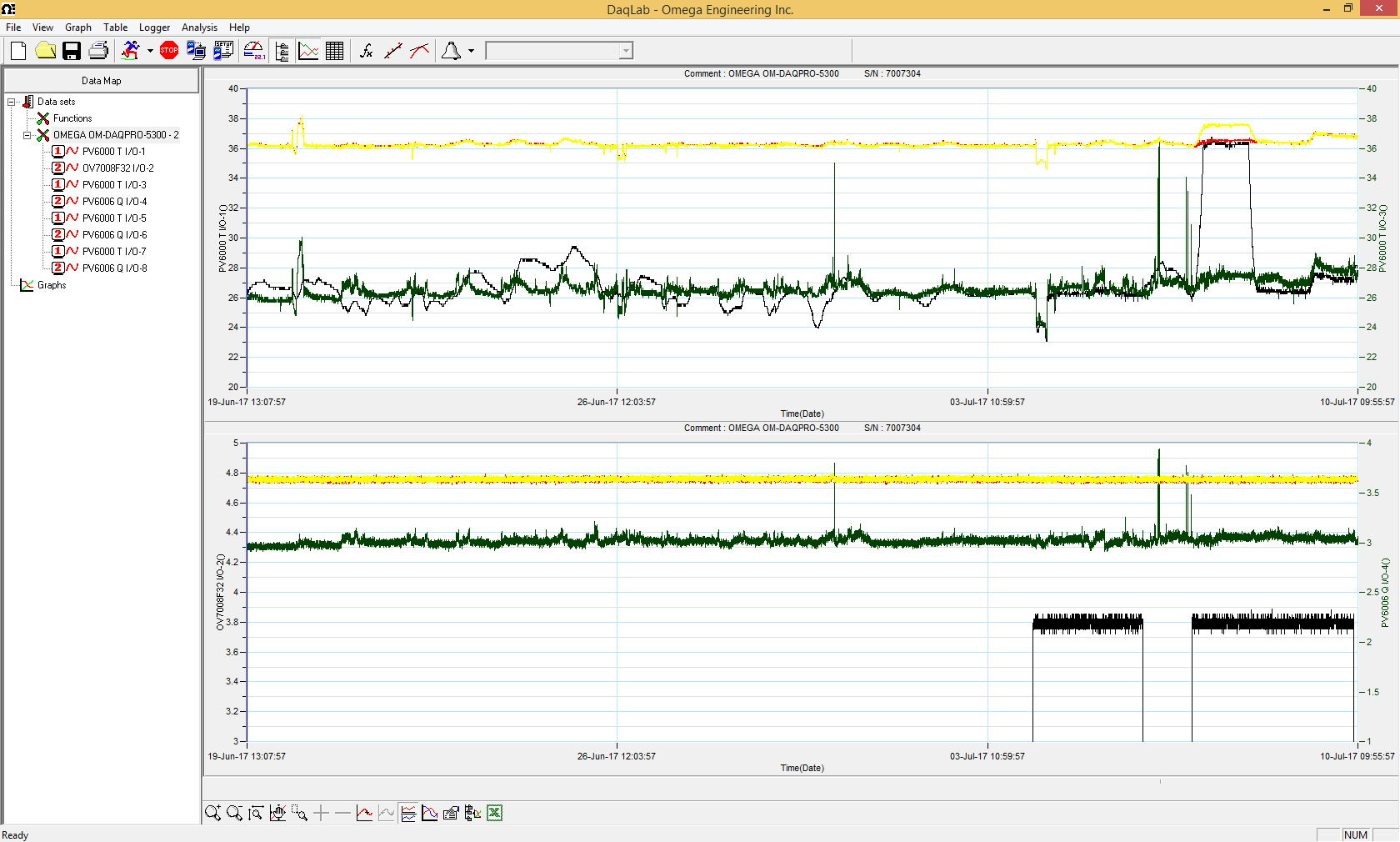
Heating, EE and BIAS



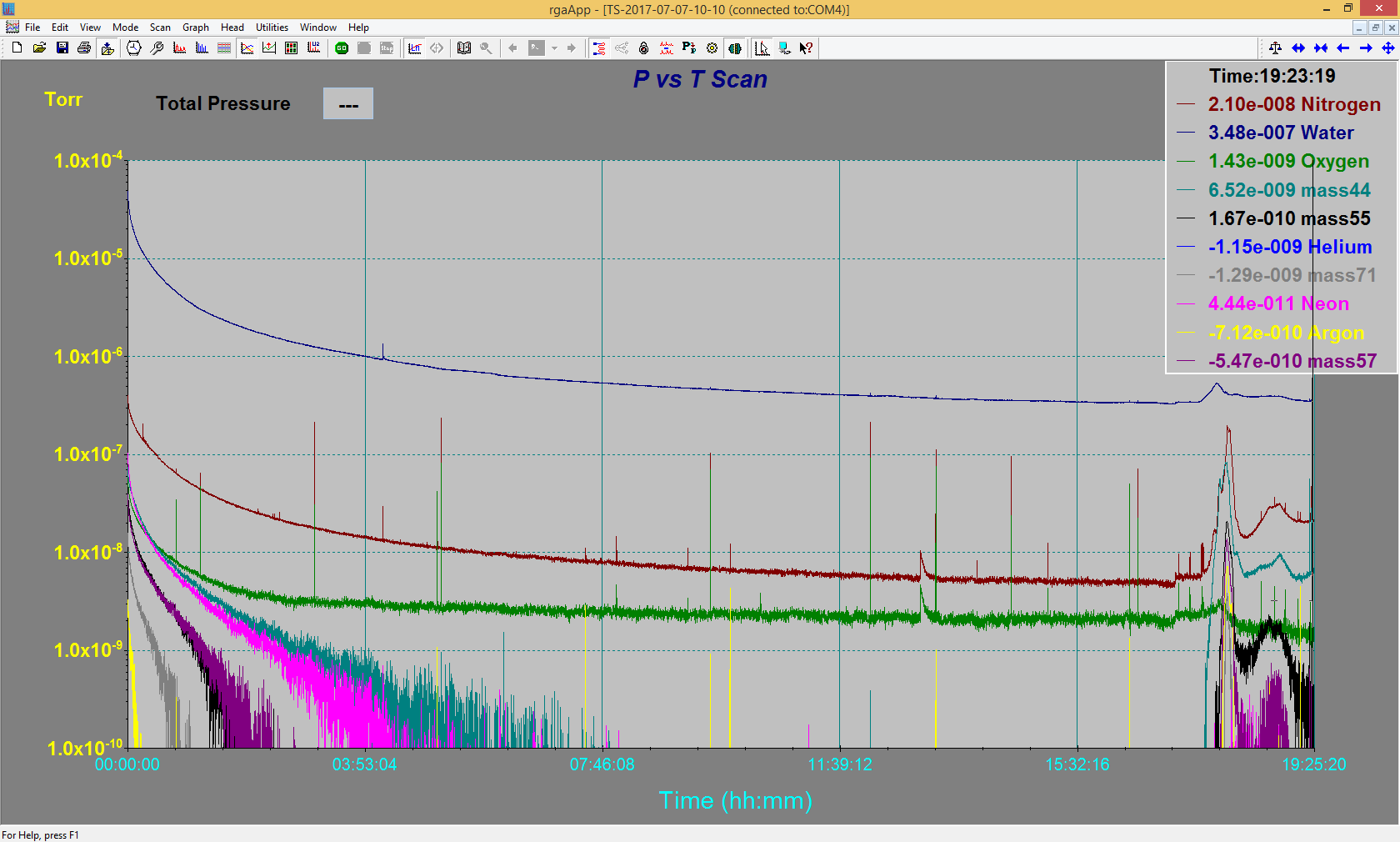
TGHT and TBHT Voltage

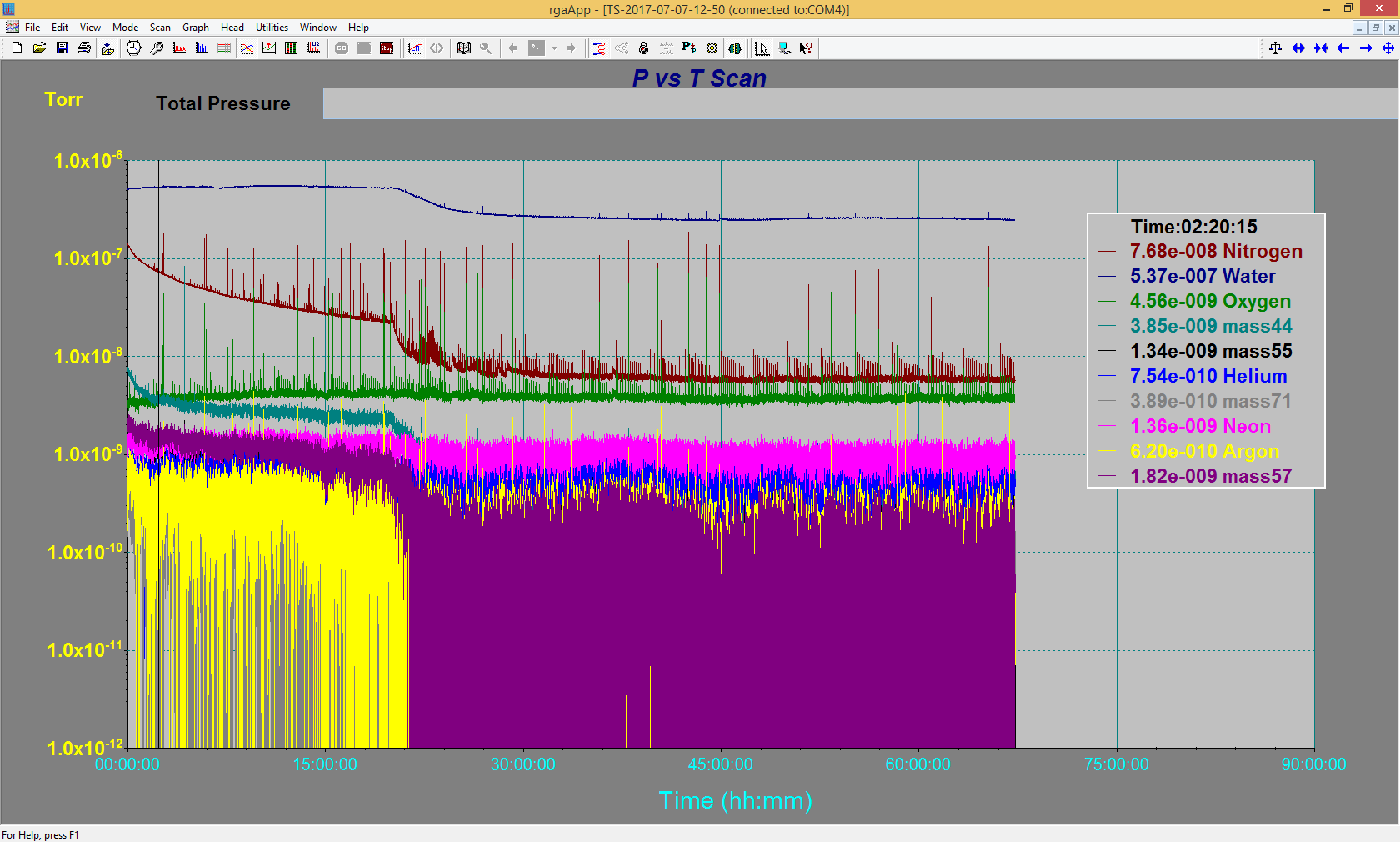


Flow and cooling water temperatures

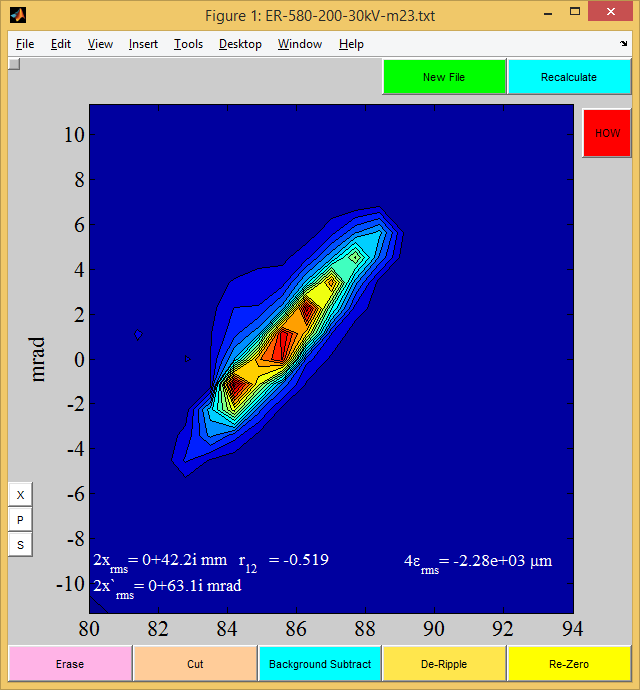


RGA

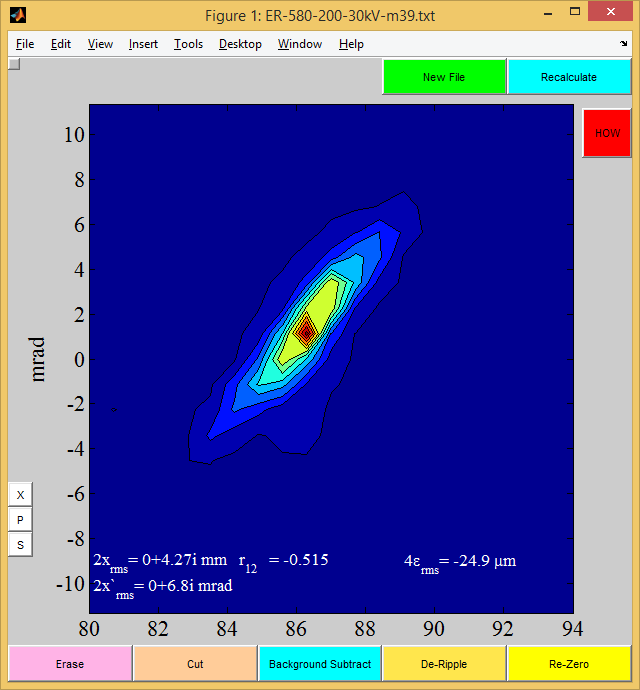




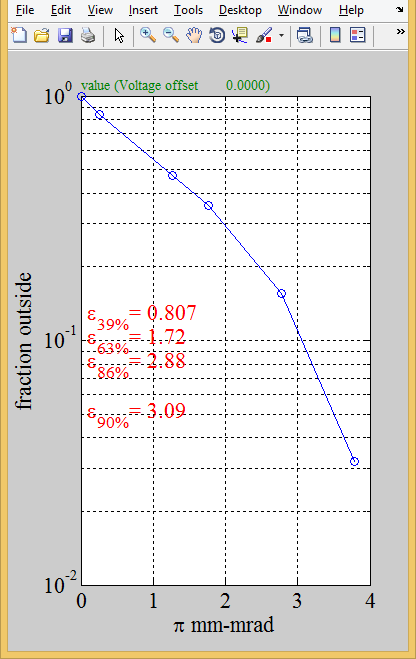
Emittance Scan



Mass 23



Mass 39



Mass 39