Conditioning Report

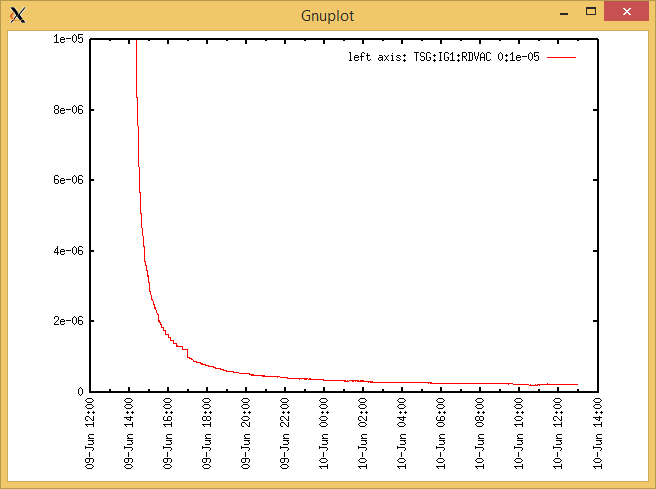
|  |  |  |
| --- | --- | --- |
| Target material and number | | Ta#52 |
| Target WO-SN | | 42218-14 |
| Operator name | | Aaron Schmidt |
|  | |  |
| Heating start date and time | | 2017-06-12 08:18 |
| BIAS | |  |
| Voltage [kV] | | 30 |
| Current [µA] | | 37 |
| Extraction Electrode (EE) | |  |
| Voltage [kV] | | 1.5 |
| Current [µA] | | 518 |
| TGHT | |  |
| Current [A] | | 581.7 |
| Voltage [V] | | 7.048 |
| TBHT | |  |
| Current [A] | | 198.7 |
| Voltage [V] | | 2.190 |
| FEBIAD ANODE | |  |
| Voltage [V] | | - |
| Current [mA] | | - |
| FEBIAD COIL | |  |
| Current [A] | | - |
| Voltage [V] | | - |
| Flow and Temperature HS + MSP | |  |
| Flow [lpm] | | 3.78 |
| Temperature increase [C] | | 9.90 |
| FC6 currents [A] | | 6.41e-09 |
| SIS | 7Li | -Comment\* |
| FEBIAD | 20Ne | - |
| SIS | 23Na | -\* |
| SIS | 39K | -\* |
| SIS | 85Rb | -\* |
| SIS | 133Cs | -\* |
| Heating end date and time | | 2017-06-13 14:50 |

Comments

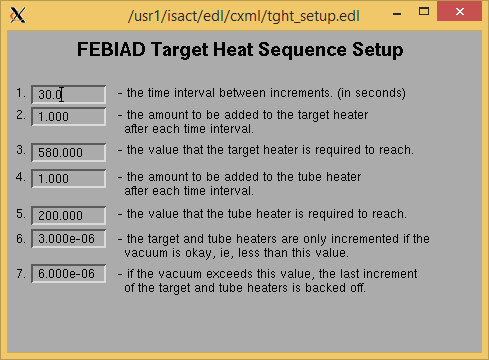
-The Mass Correlations data was not properly dumped to file and saved. However there were multiple screenshots made of various mass scans throughout Ta#52’s conditioning providing a visual representation of the data.

Plots

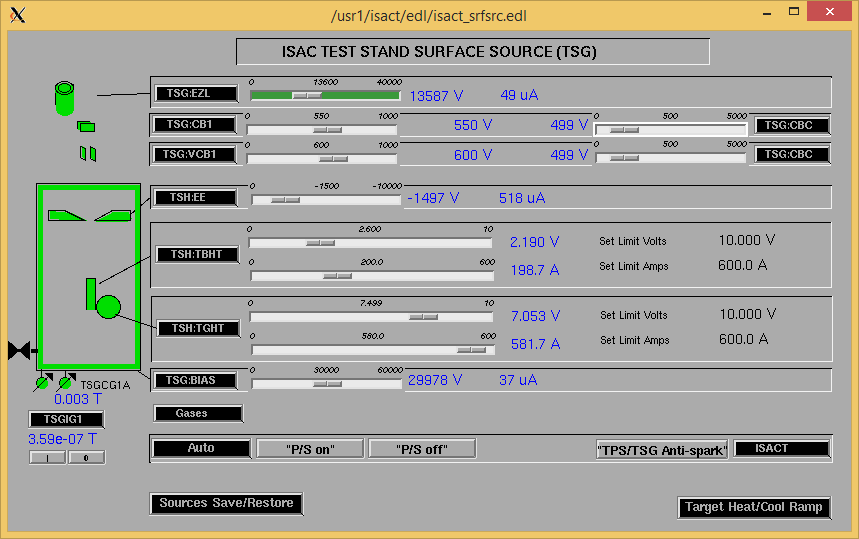
8h Vacuum Pump Down



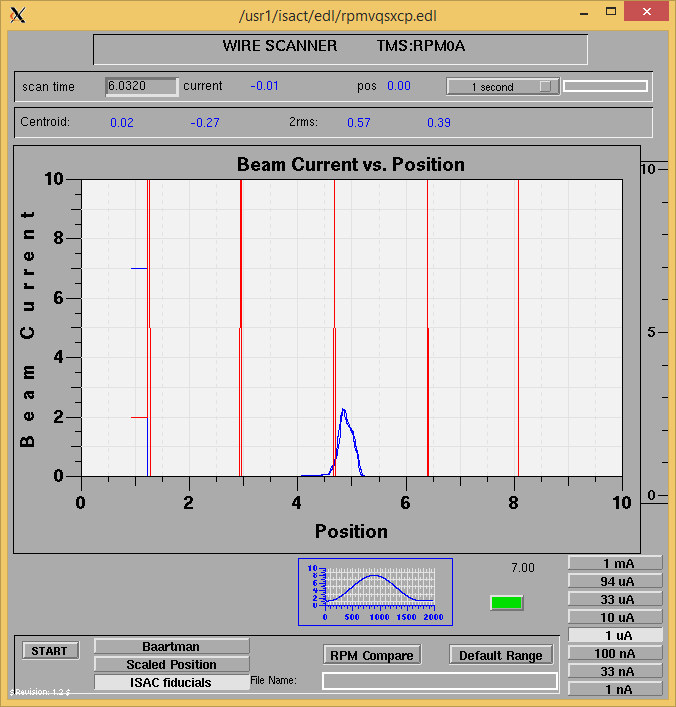
Target Heat Sequence Setup

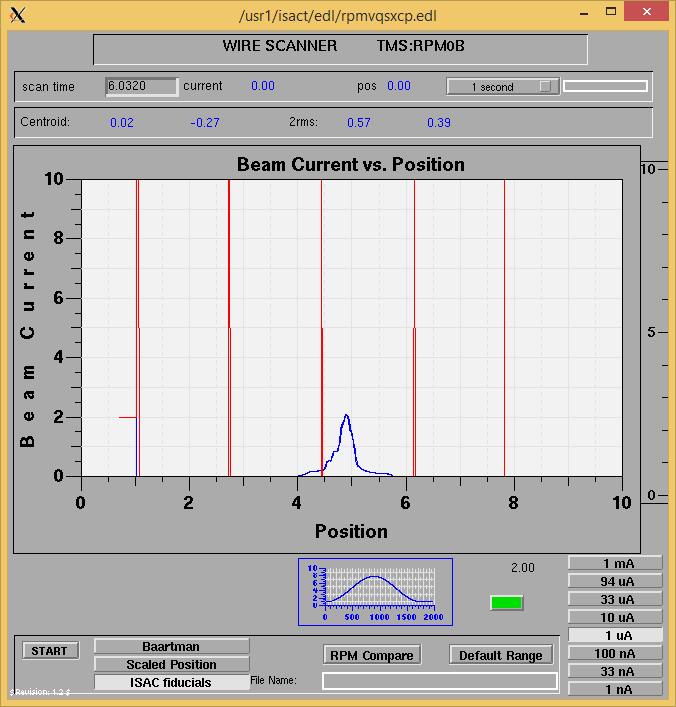


Source Tuning



Wire Scanners RPM0A and RPM0B





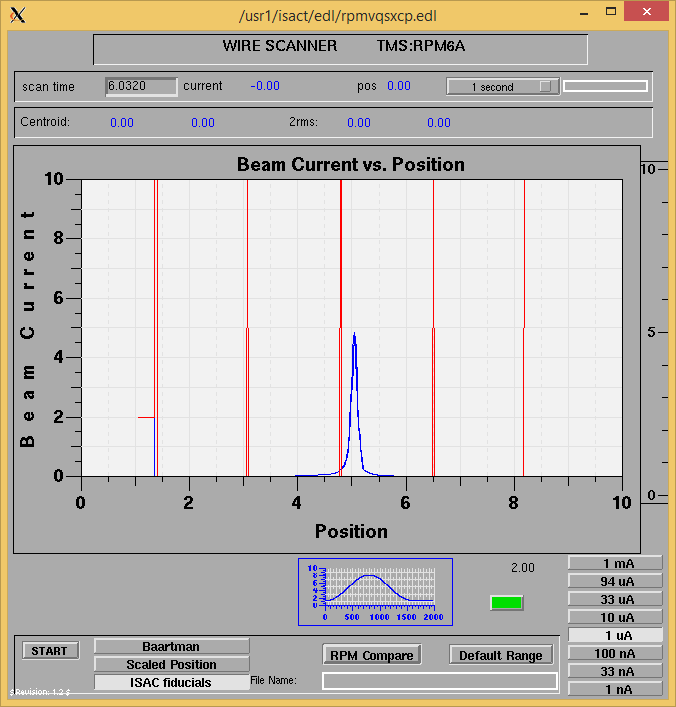
Optics Tuning

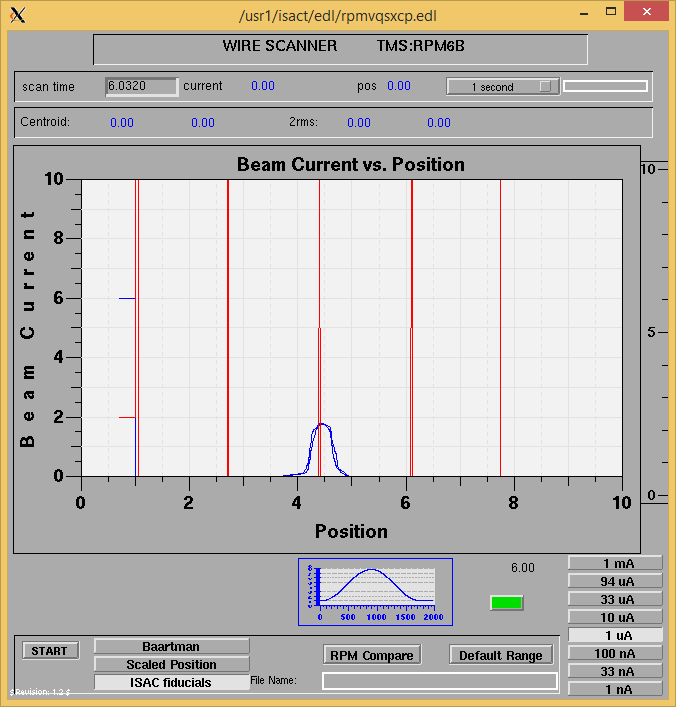


Mass 23

Wire Scanners RPM6A and RPM6B

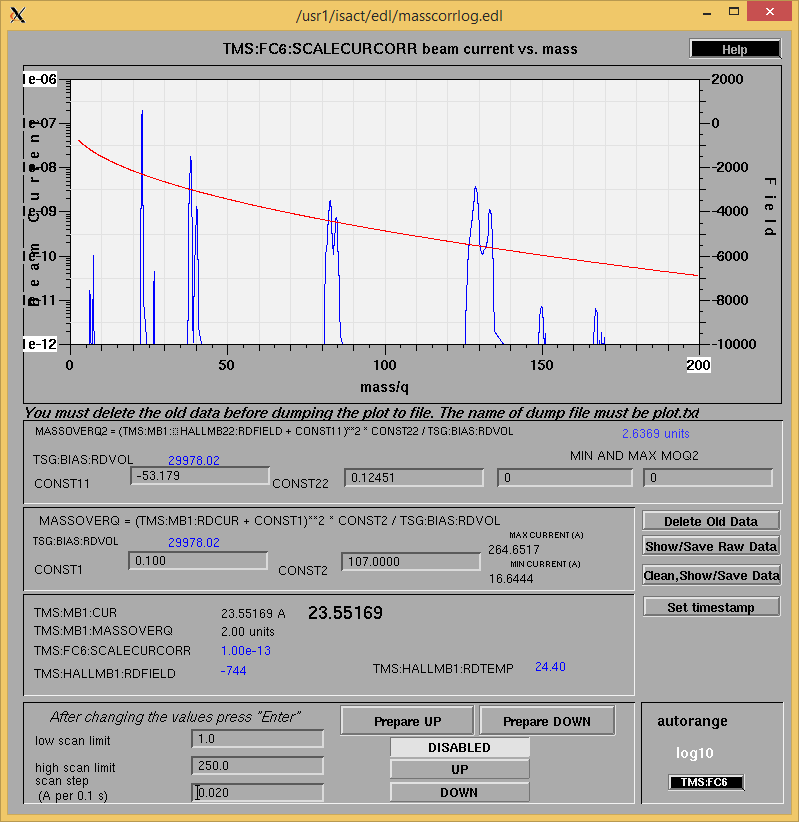
Mass 23



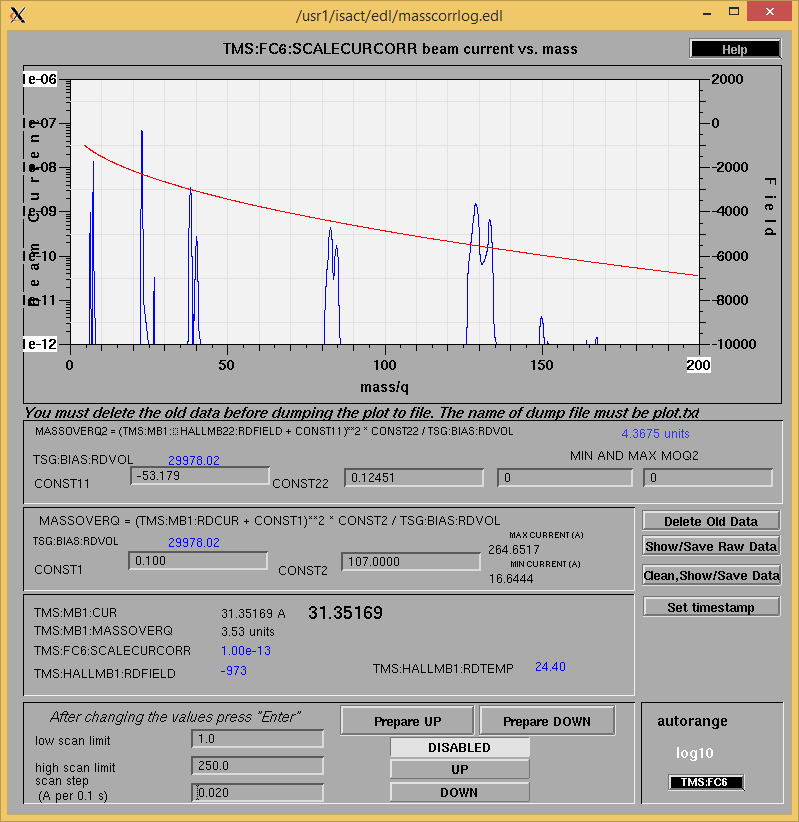


Mass 23

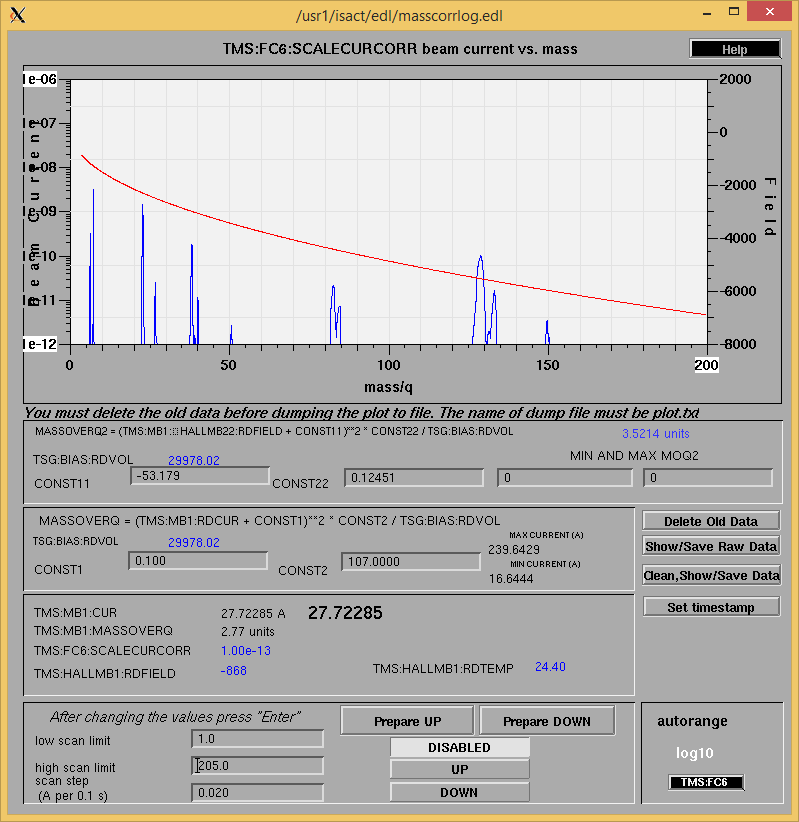
Mass Scan



June 12, 2017, 13:15

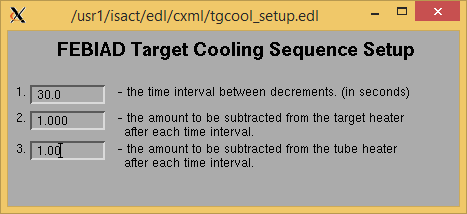


June 12, 2017, 14:30



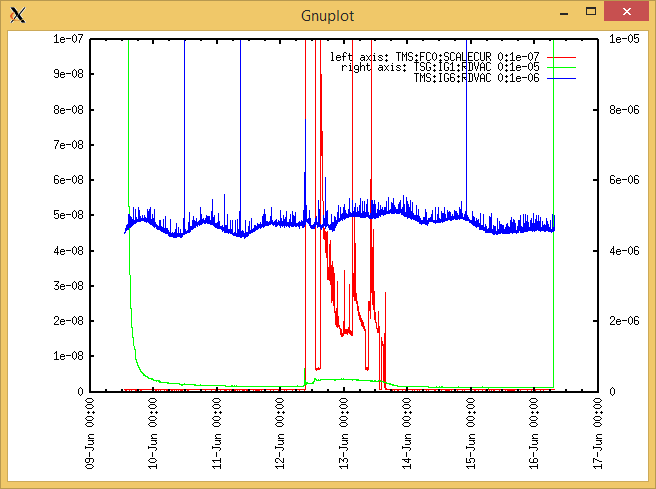
June 13, 2017, 8:23

Cooling Parameters

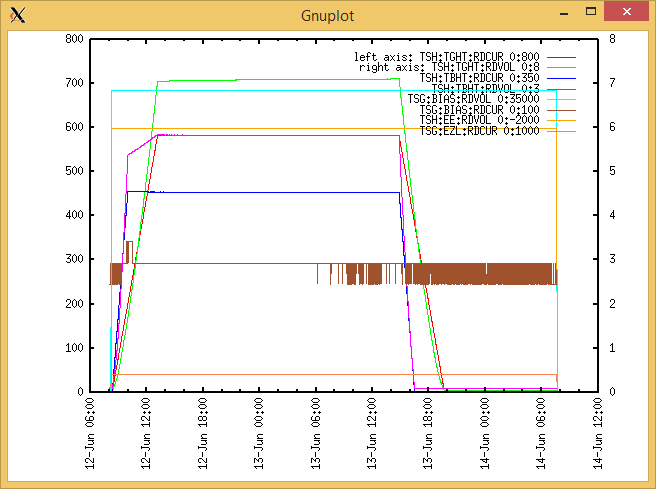


Overview Plots

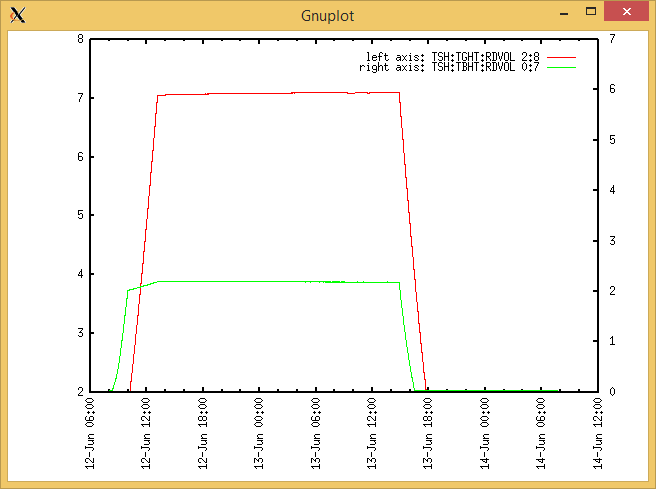
Vacuum and FC0



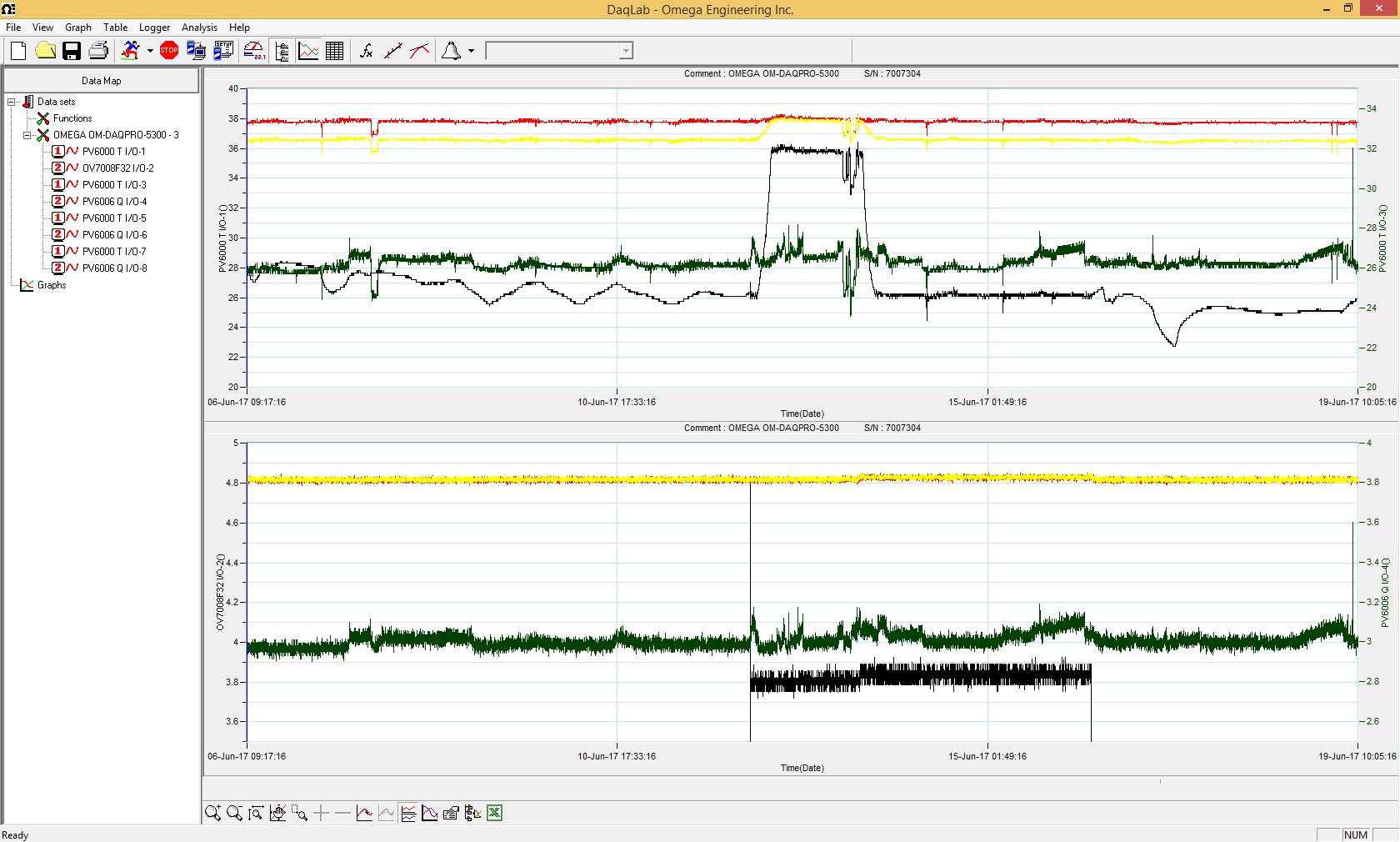
Heating, EE and BIAS



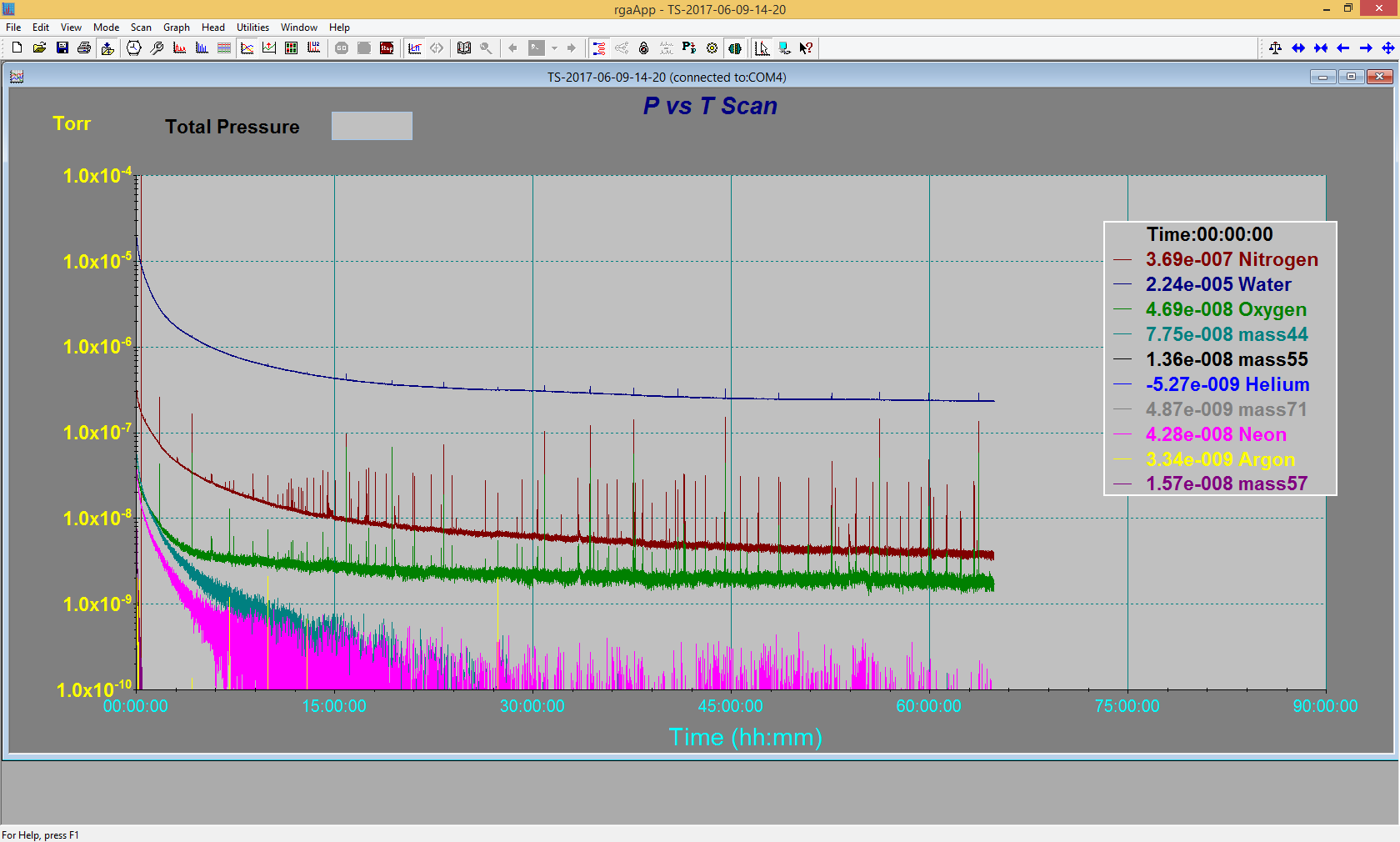
TGHT and TBHT Voltage

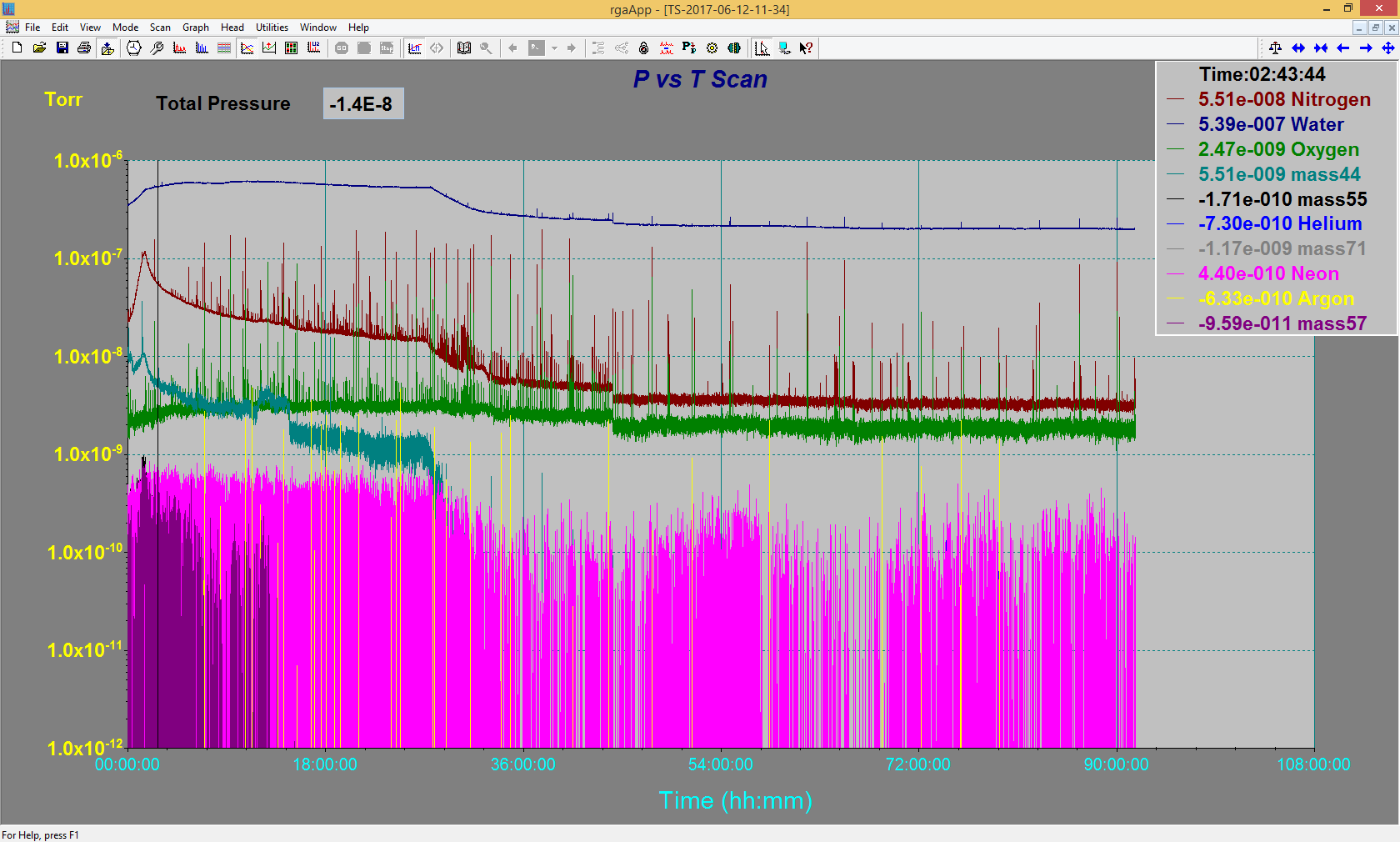


Flow and cooling water temperatures

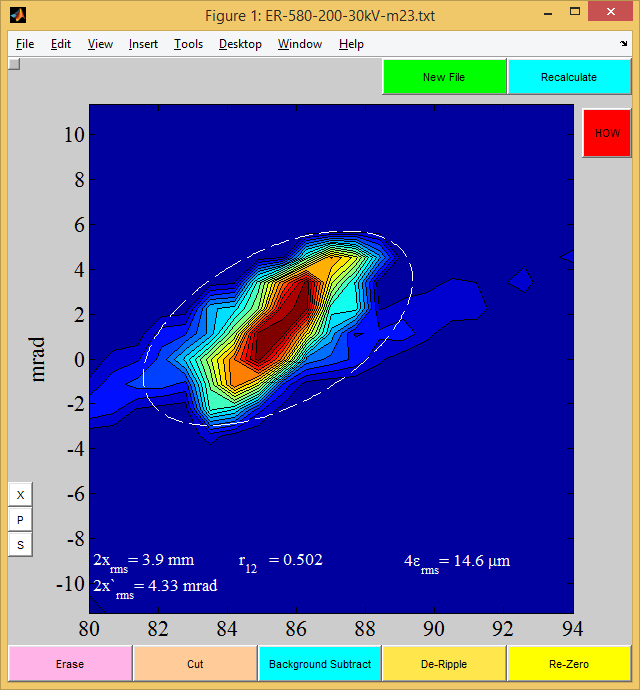


RGA

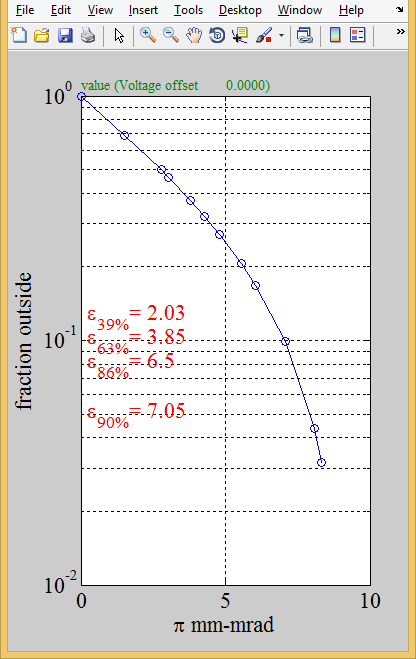




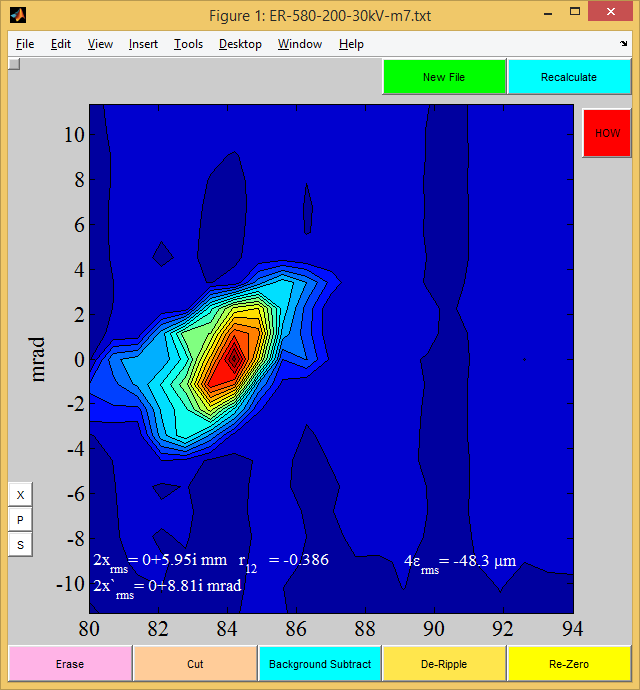
Emittance Scan



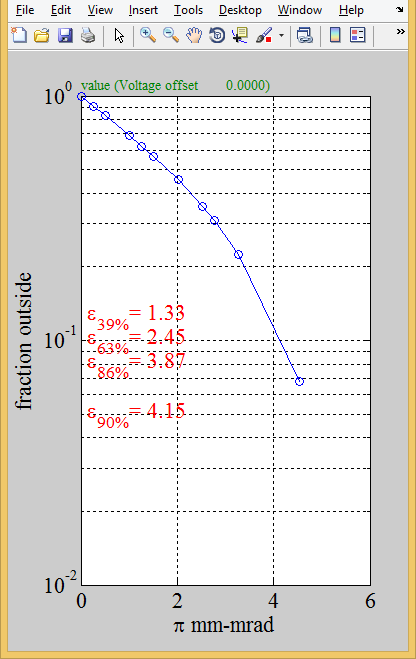
Mass 23



Mass 23



Mass 7



Mass 7