Conditioning Report

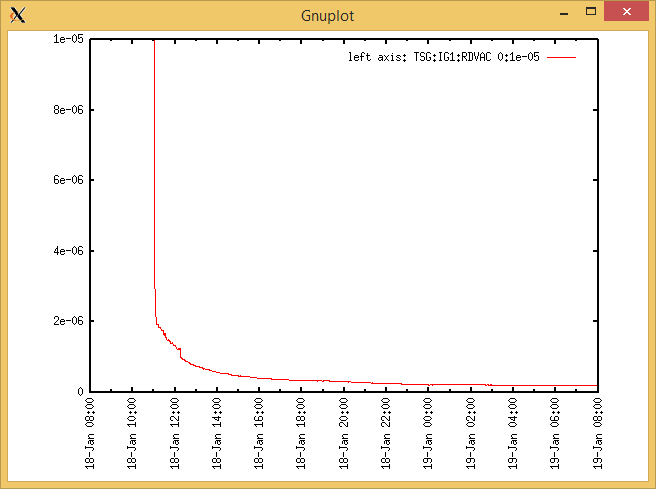
|  |  |  |
| --- | --- | --- |
| Target material and number | | Ta (Test) |
| Target WO-SN | | 39530-3 |
| Operator name | | Aaron Schmidt |
|  | |  |
| Heating start date and time | | 2017-01-19 08:59 |
| BIAS | |  |
| Voltage [kV] | | 30 |
| Current [µA] | | 31 |
| Extraction Electrode (EE) | |  |
| Voltage [kV] | | 1.5 |
| Current [µA] | | 520 |
| TGHT | |  |
| Current [A] | | 582 |
| Voltage [V] | | 6.9 |
| TBHT | |  |
| Current [A] | | 290 - 312 |
| Voltage [V] | | 2.5 |
| FEBIAD ANODE | |  |
| Voltage [V] | | 200 |
| Current [mA] | | 27 |
| FEBIAD COIL | |  |
| Current [A] | | 50 - 100 |
| Voltage [V] | | 0.4 – 1.6 |
| Flow and Temperature HS + MSP | | 24.9 |
| Flow [lpm] | | 3.99 |
| Temperature increase [C] | | +9.2 (34.1) |
| FC6 currents [A] | | - |
| SIS | 7Li | - |
| FEBIAD | 20Ne | 9.063E-12 |
| SIS | 23Na | - |
| SIS | 39K | - |
| SIS | 85Rb | - |
| SIS | 133Cs | - |
| Heating end date and time | | 2017-01-23 13:25 |

Comments

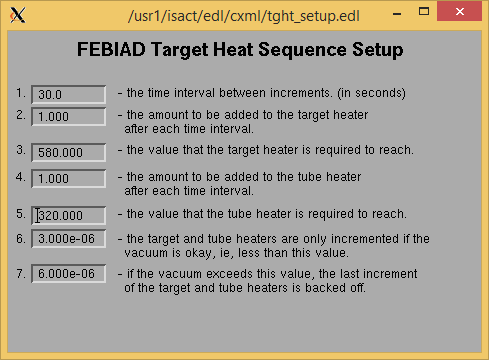
TRI-COIL LP-FEBIAD Ta Target for testing optics tuning.

Plots

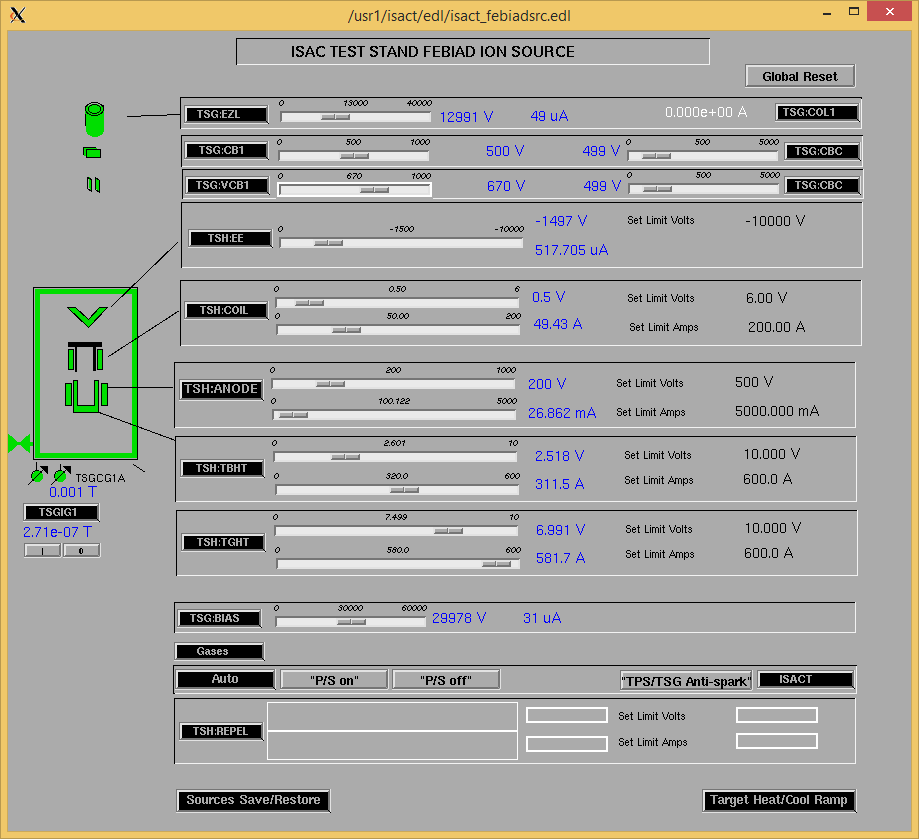
8h Vacuum Pump Down



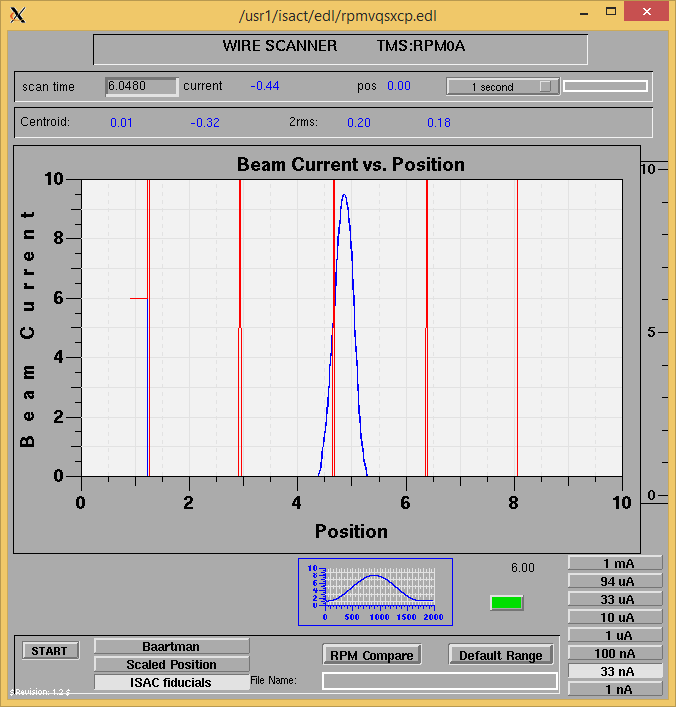
Target Heat Sequence Setup

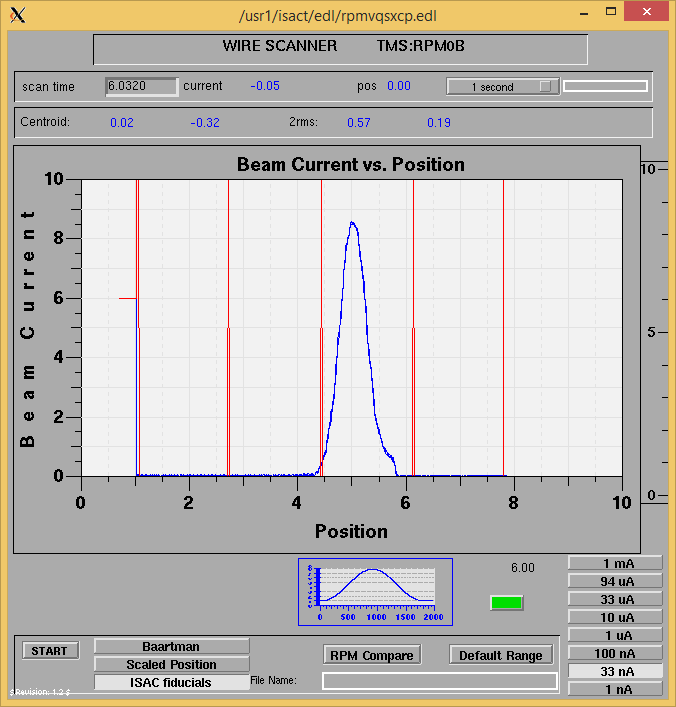


Source Tuning



Wire Scanners RPM0A and RPM0B



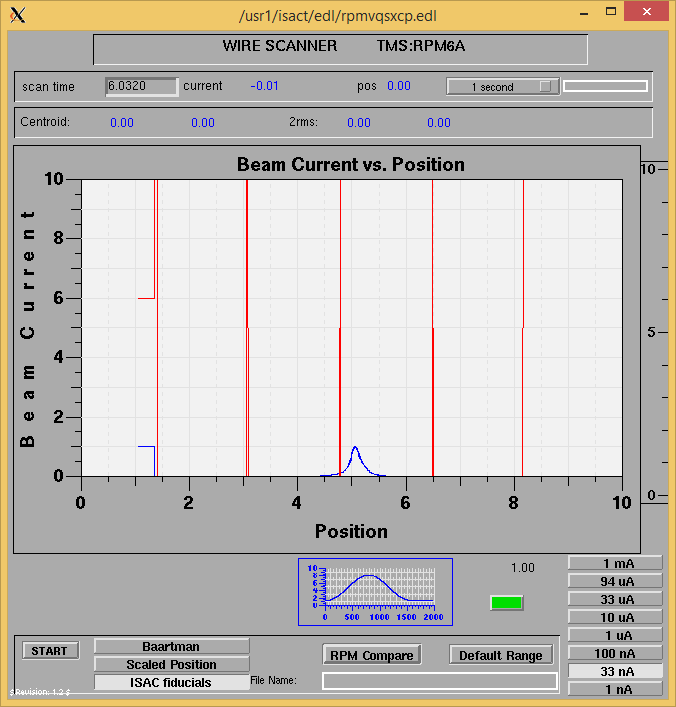


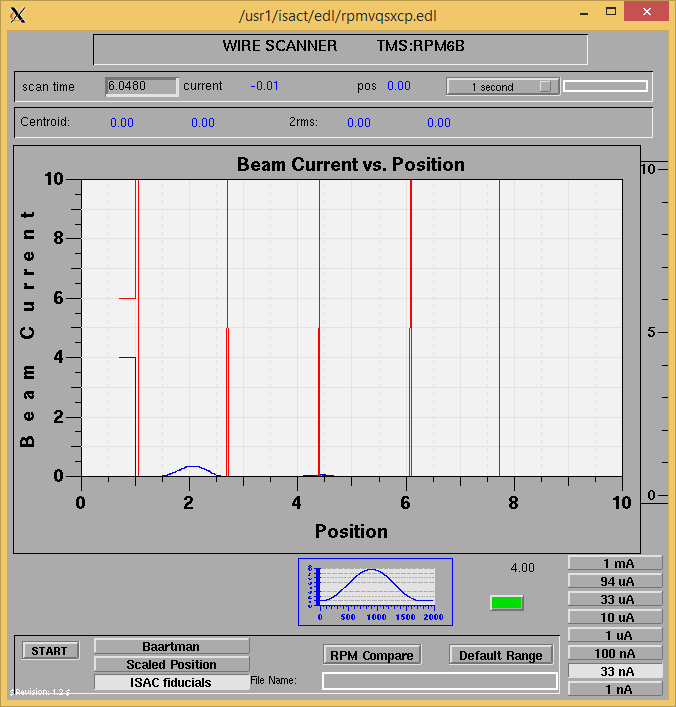
Optics Tuning



Wire Scanners RPM6A and RPM6B

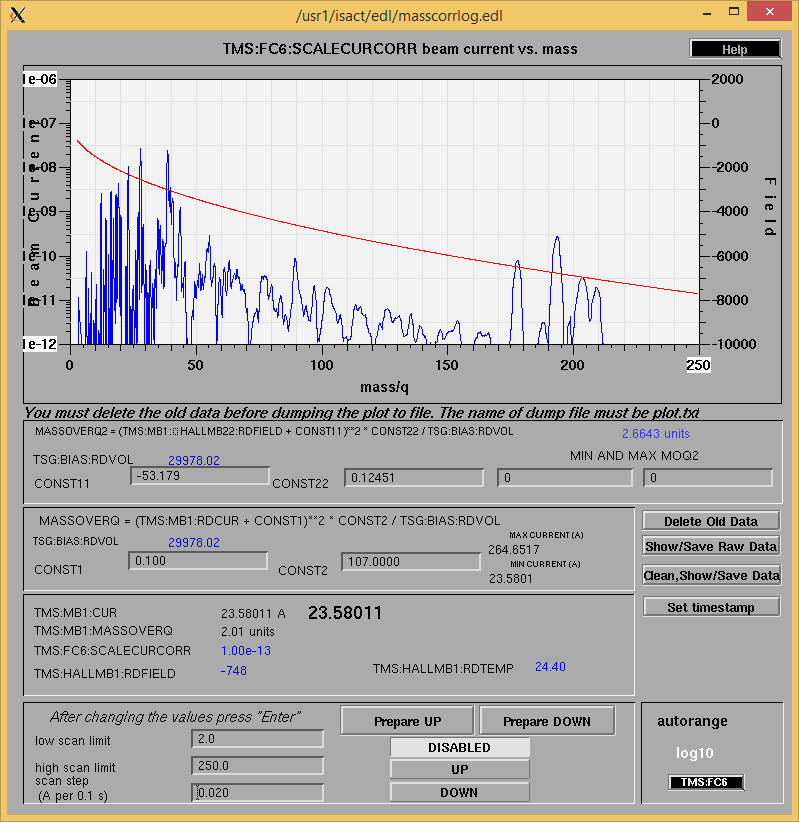
Mass 20





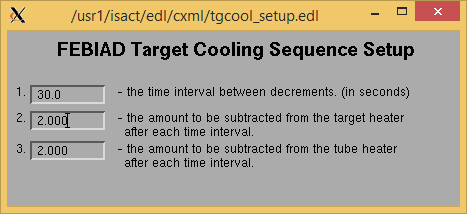
Mass 20

Mass Scan



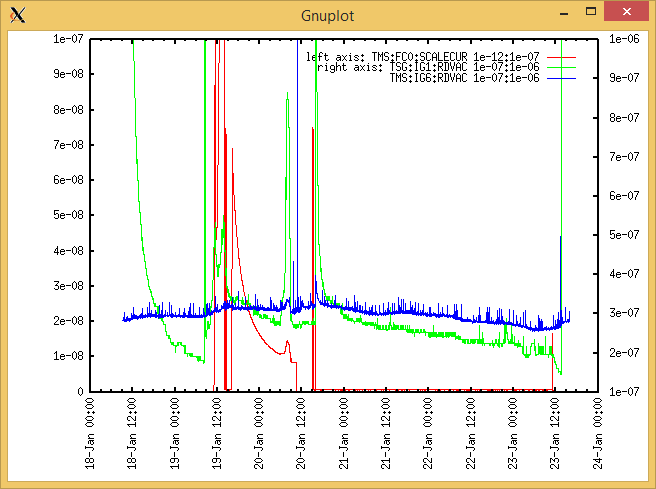
<http://isacwserv.triumf.ca/onlylocal/isactdata/save_restore/masscorr/2017-01-20-15-00>

Cooling Parameters

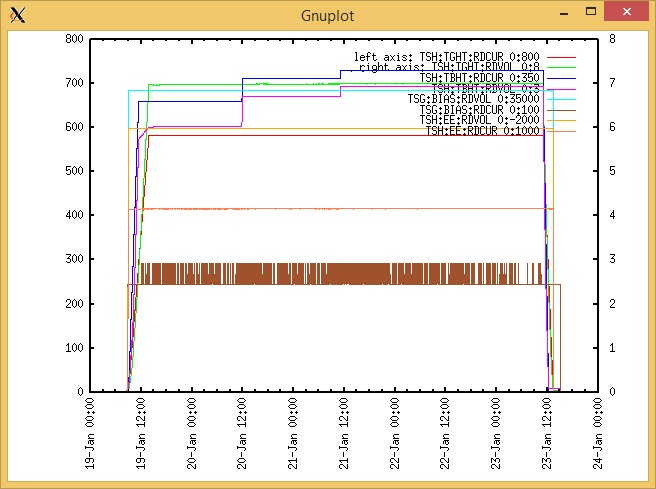


Overview Plots

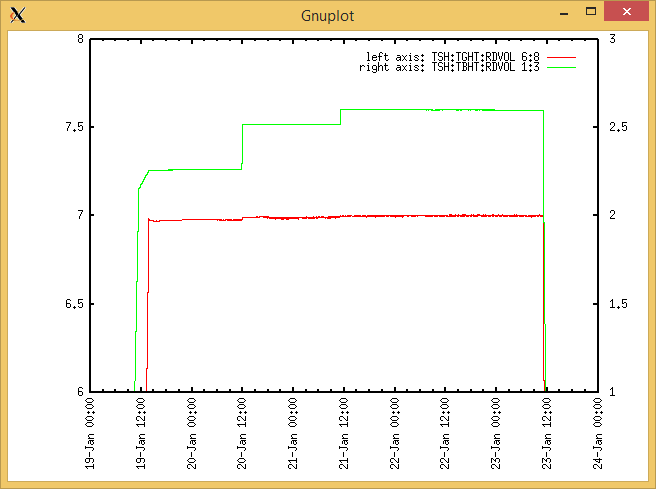
Vacuum and FC0



Heating, EE and BIAS



TGHT and TBHT Voltage



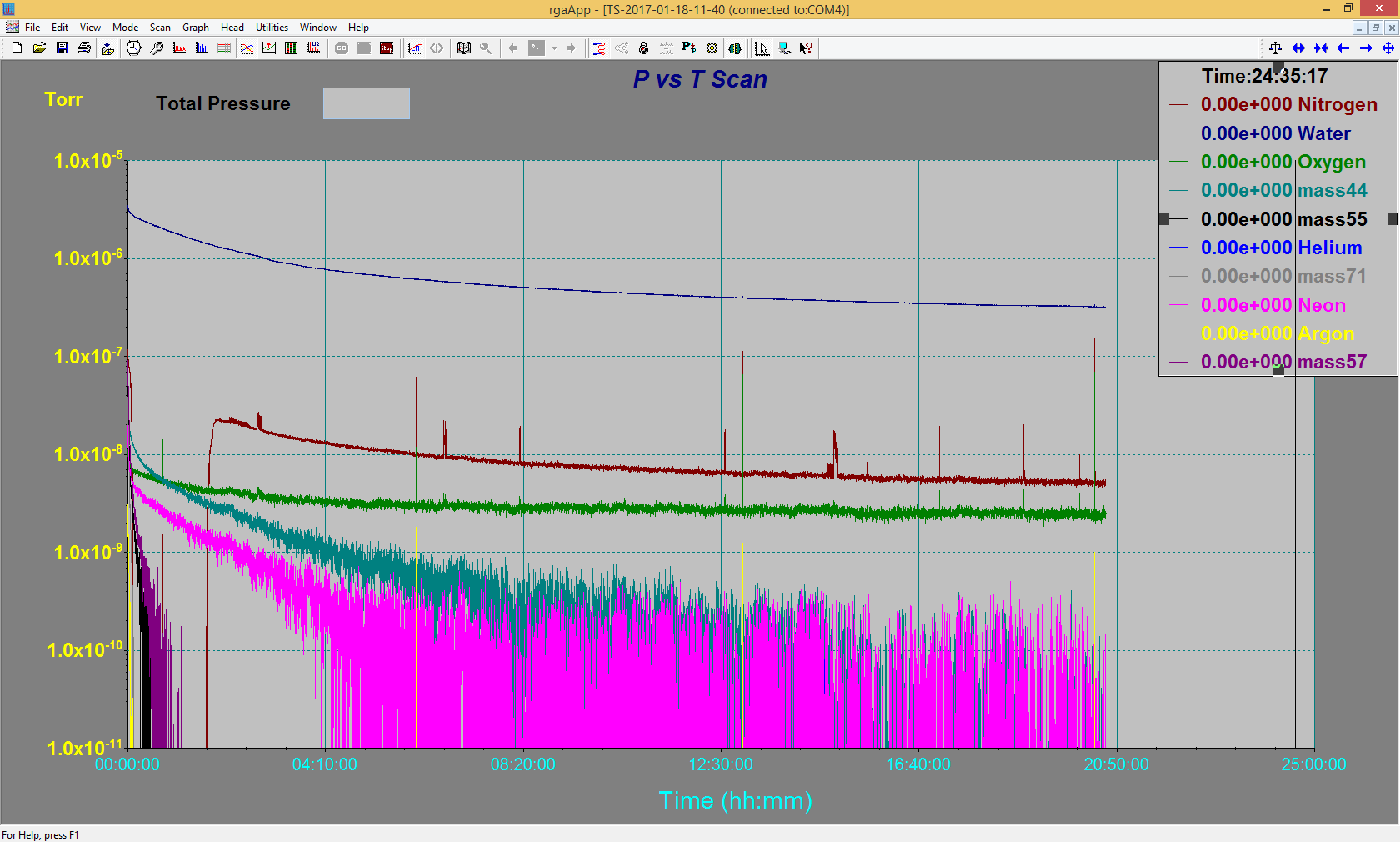
Flow and cooling water temperatures

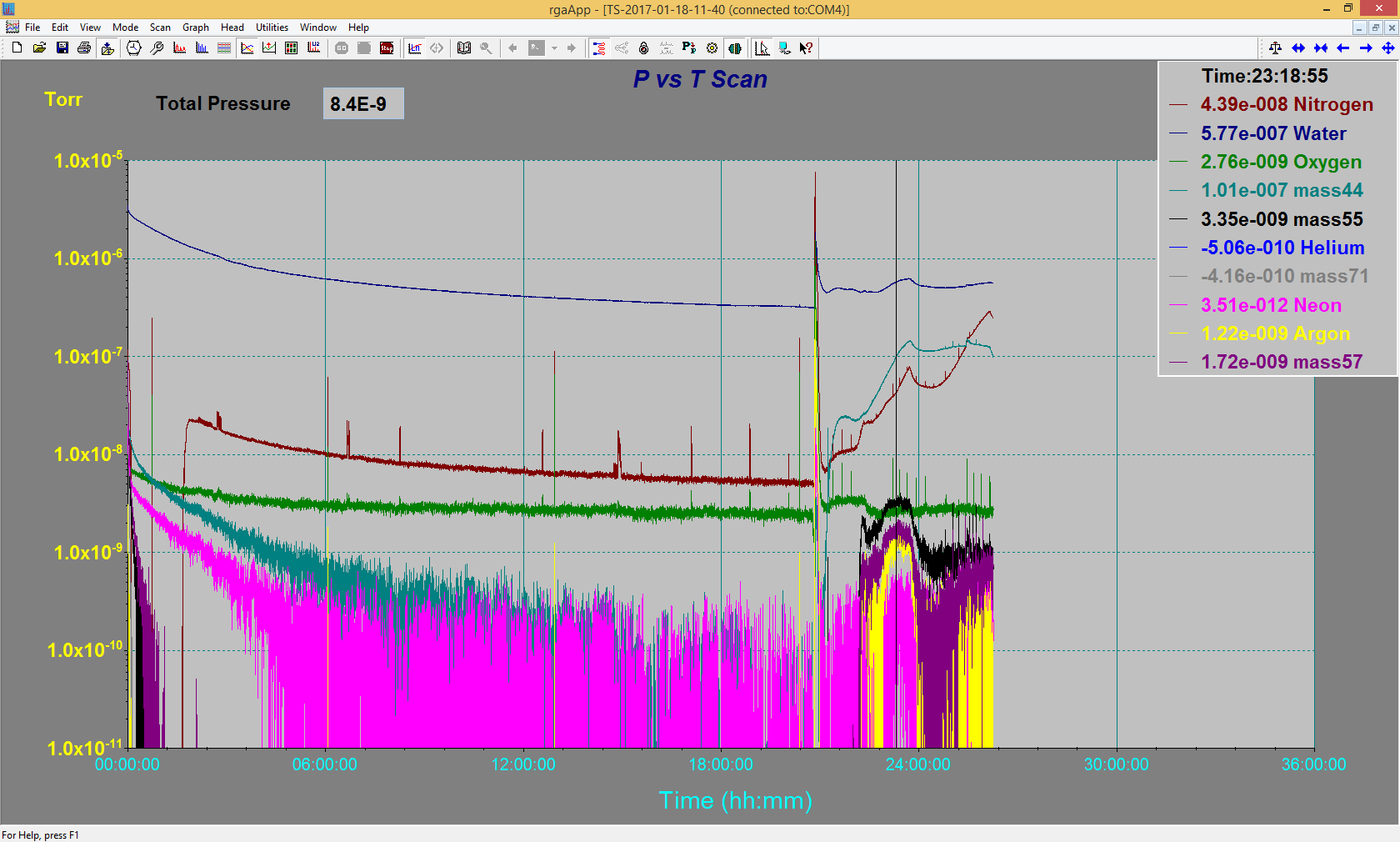
Daqpro Graph un-available

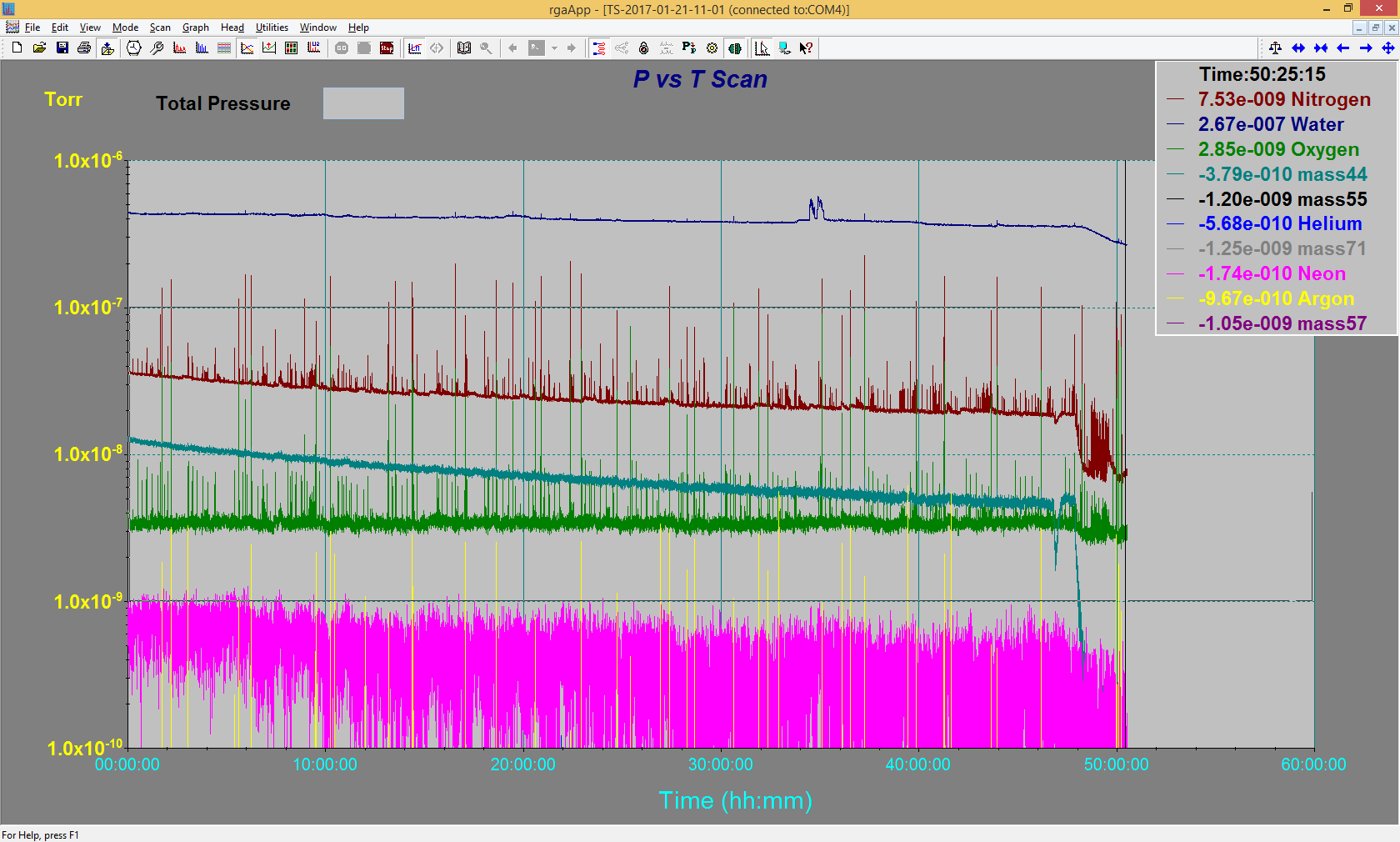
|  |  |  |
| --- | --- | --- |
| **Device** | **Temp [C]** | **Flow [lpm]** |
| HS + MSP | 24.9 | 3.99 |
| TBHT | 24.8 | 3.15 |
| COIL + EE | 24.7 | 5.16 |
| TGHT | 24.7 | 5.05 |

|  |  |  |
| --- | --- | --- |
| **Device** | **Temp [C]** | **Flow [lpm]** |
| HS + MSP | 34.1 | 3.99 |
| TBHT | 25.0 | 3.19 |
| COIL + EE | 24.7 | 5.19 |
| TGHT | 26.5 | 5.05 |

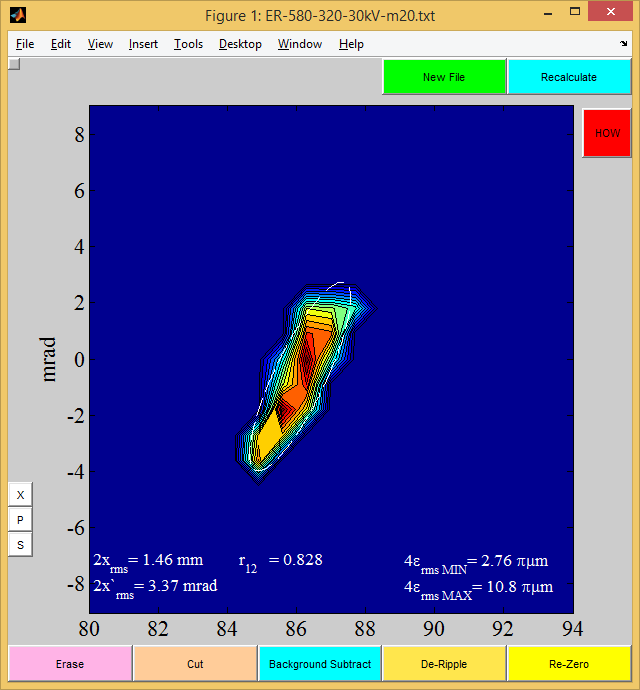
RGA



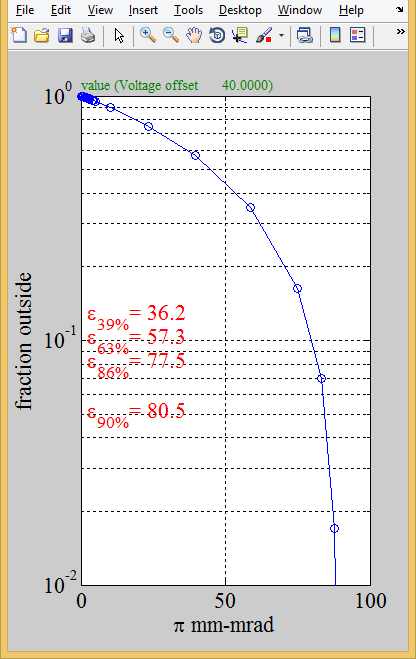




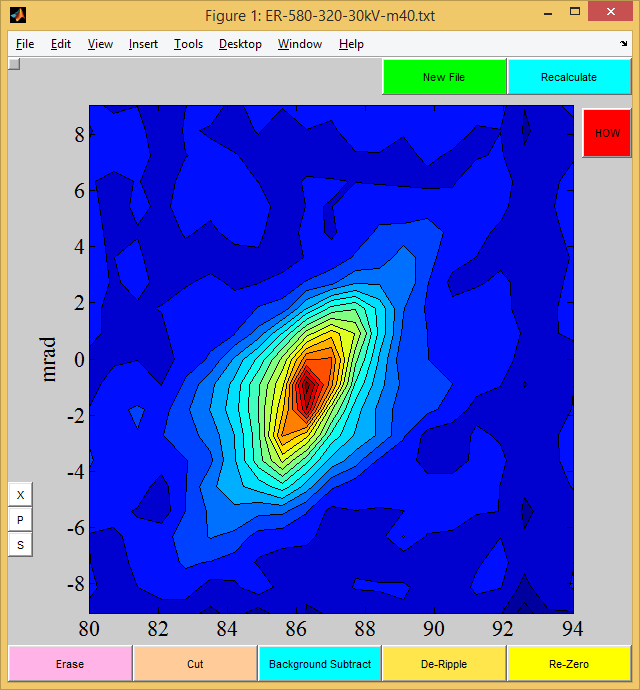
Emittance Scan



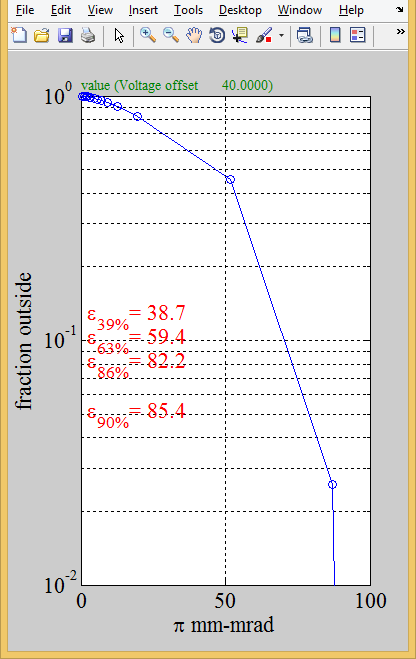
Mass 20



Mass 20



Mass 40



Mass 40