

2011-06-10 Friday Morning Notes

Friday, June 10, 2011

7:38 AM

Stacking and Transfers

- Stacked 26.7mA/hr with a production of 23.7pbars/Mp with 8.35 Tp on target.
- Unstacked 402 E10 in 41 transfers over 13 sets with an average overall efficiency of 95%.
 - If take out stacks > 30mA, efficiency of 95.5%. Down a good percent.

Operational Happenings

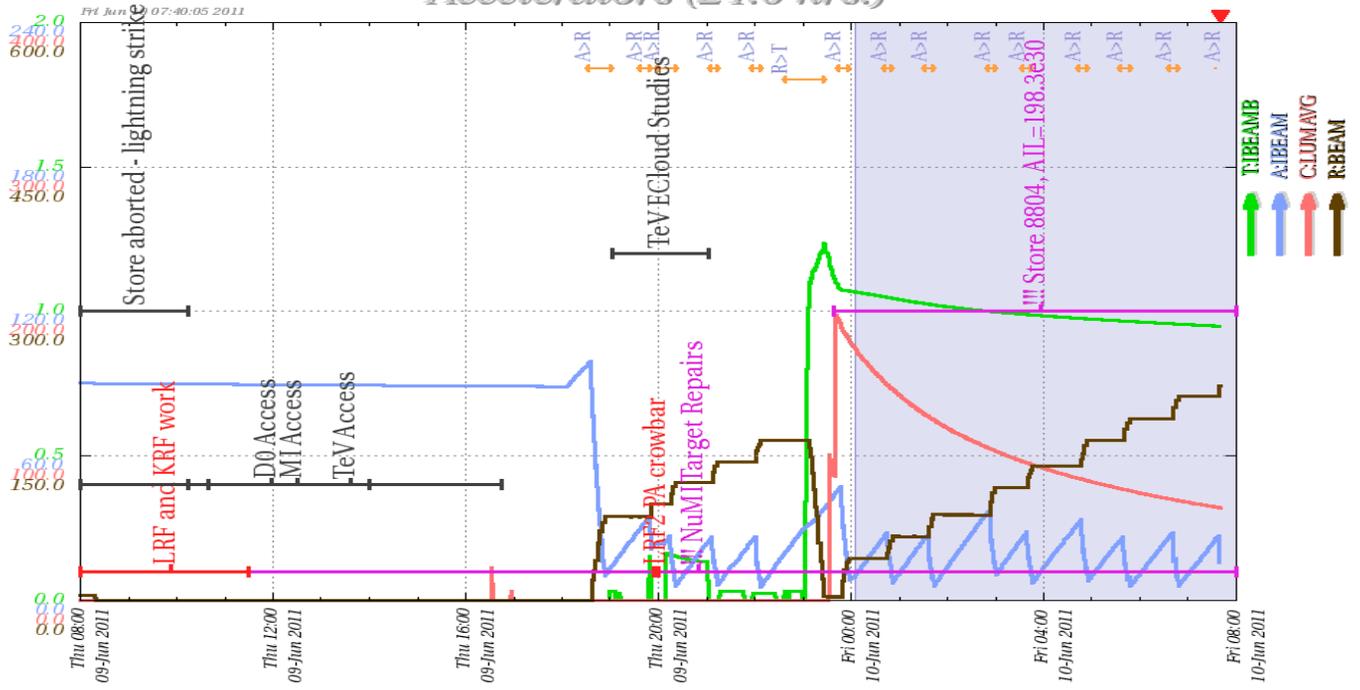
- Did not stacking during the day shift yesterday due to MI access for vacuum work.

Numbers

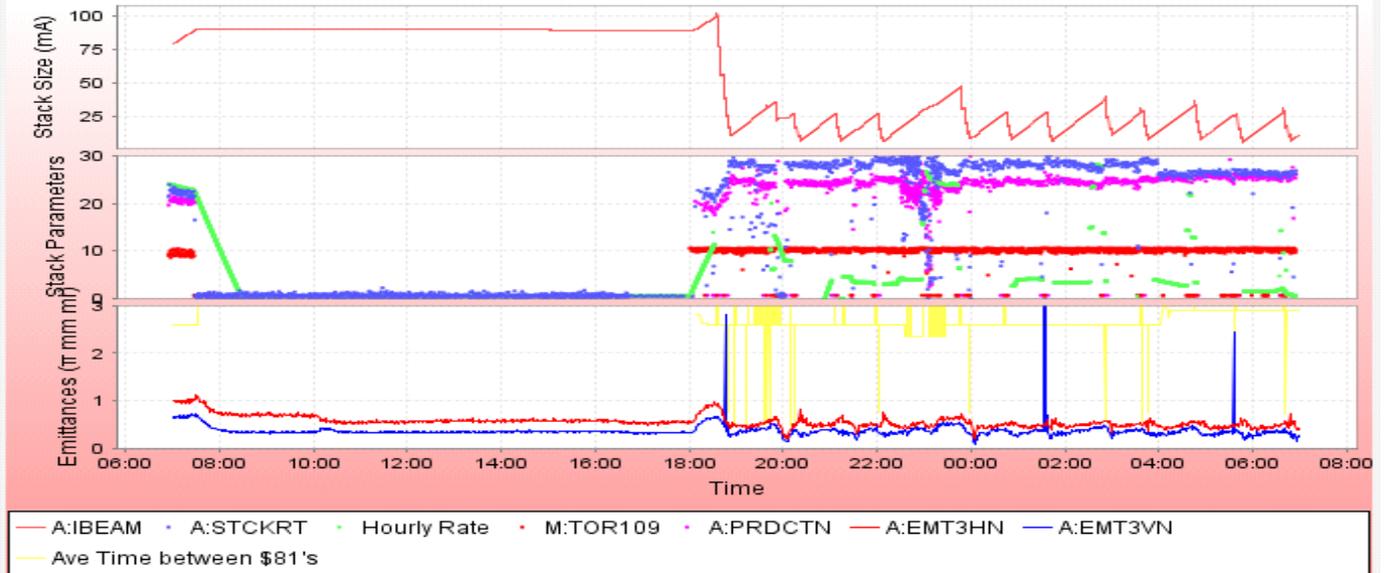
- Stacking
 - Pbars stacked: 342.71 E10
 - Time stacking: 13.56 Hr
 - Average stacking rate: 25.27 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 18048
 - Number of pulses with beam: 17496
 - Fraction of up pulses was: 96.94%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 13.15 Hr
 - Possible average stacking rate: 26.07 E10/Hr
 - Could have stacked: 353.52 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 420.61 E10
 - Number of transfers : 43
 - Number of transfer sets: 14
 - Average Number of transfer per set: 3.07
 - Time taken to shoot including reverse proton tuneup: 00.15 Hr
 - Transfer efficiency: 95.03%
- Other Info
 - Average POT : 8.34 E12
 - Average production: 23.47 pbars/E6 protons

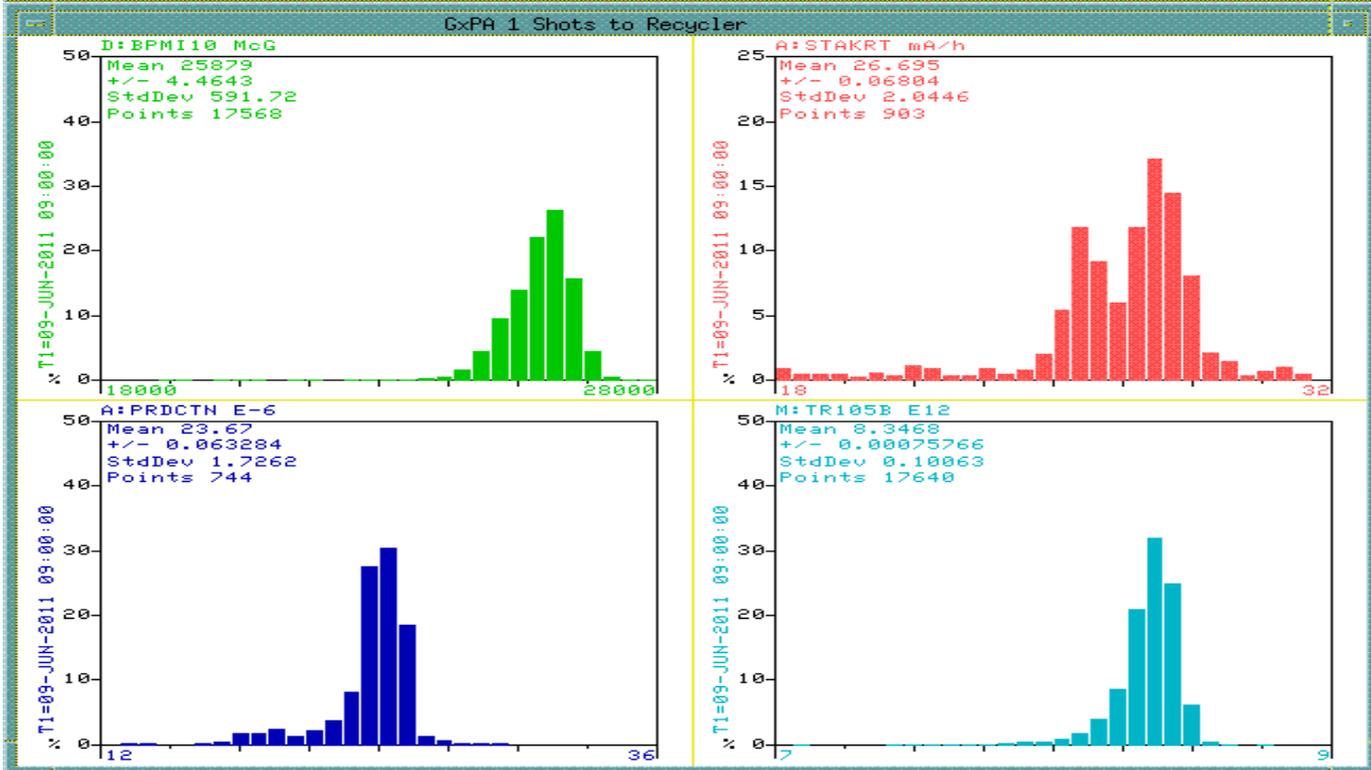
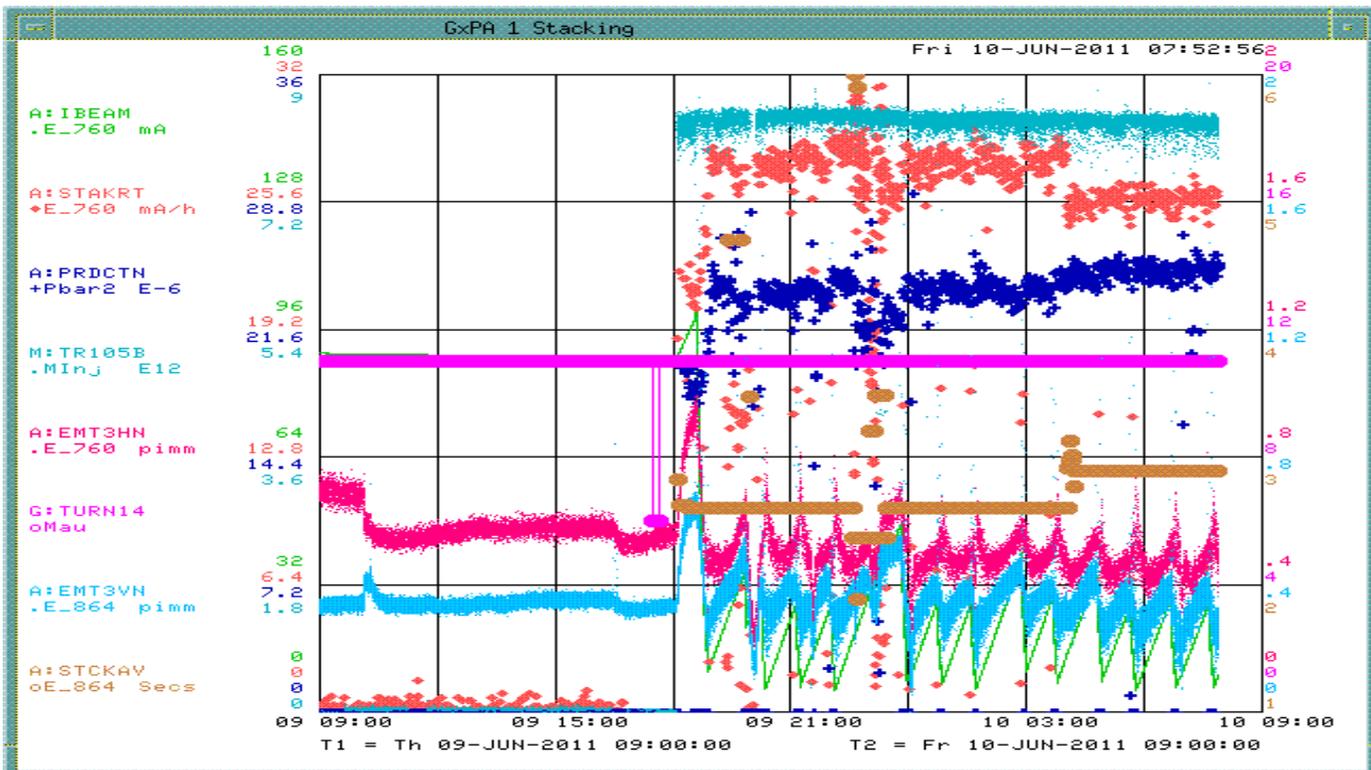
Plots

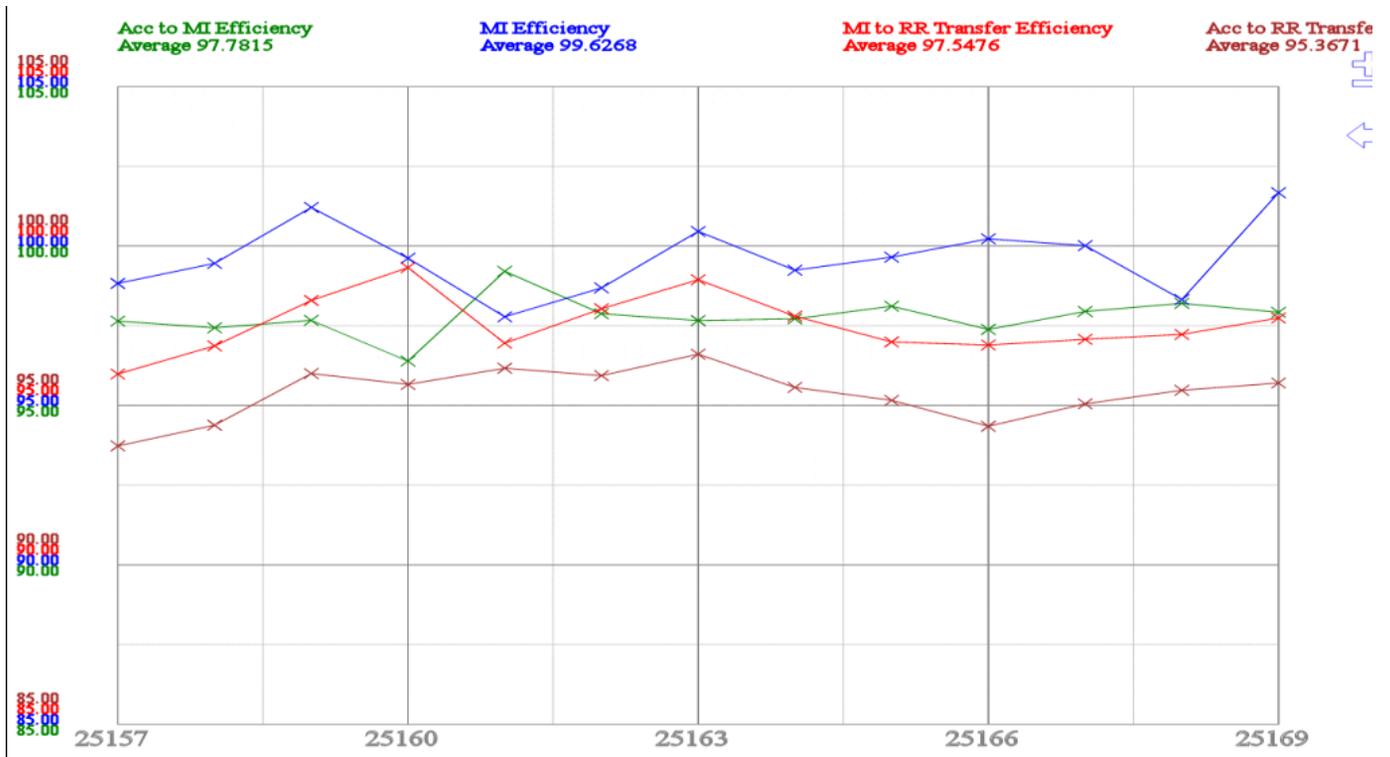
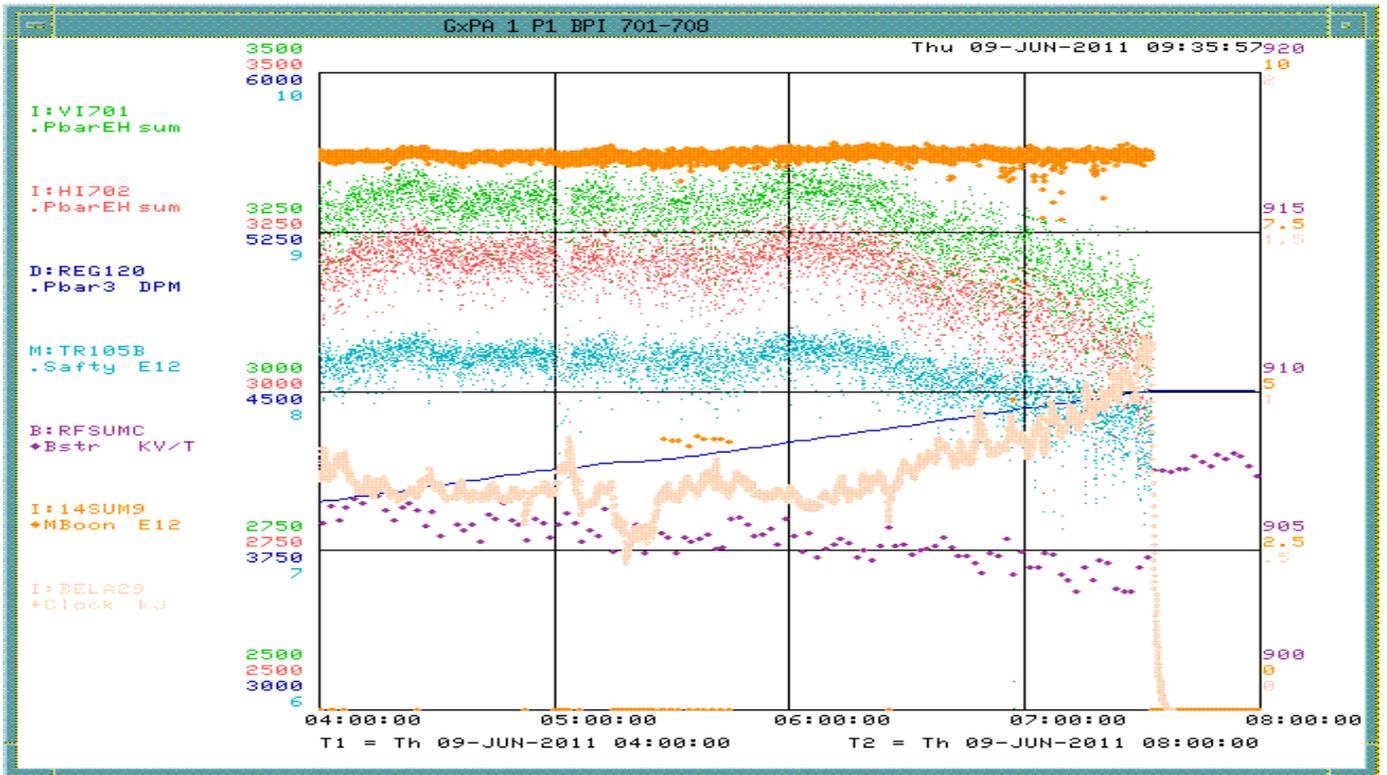
Accelerators (24.0 hrs.)

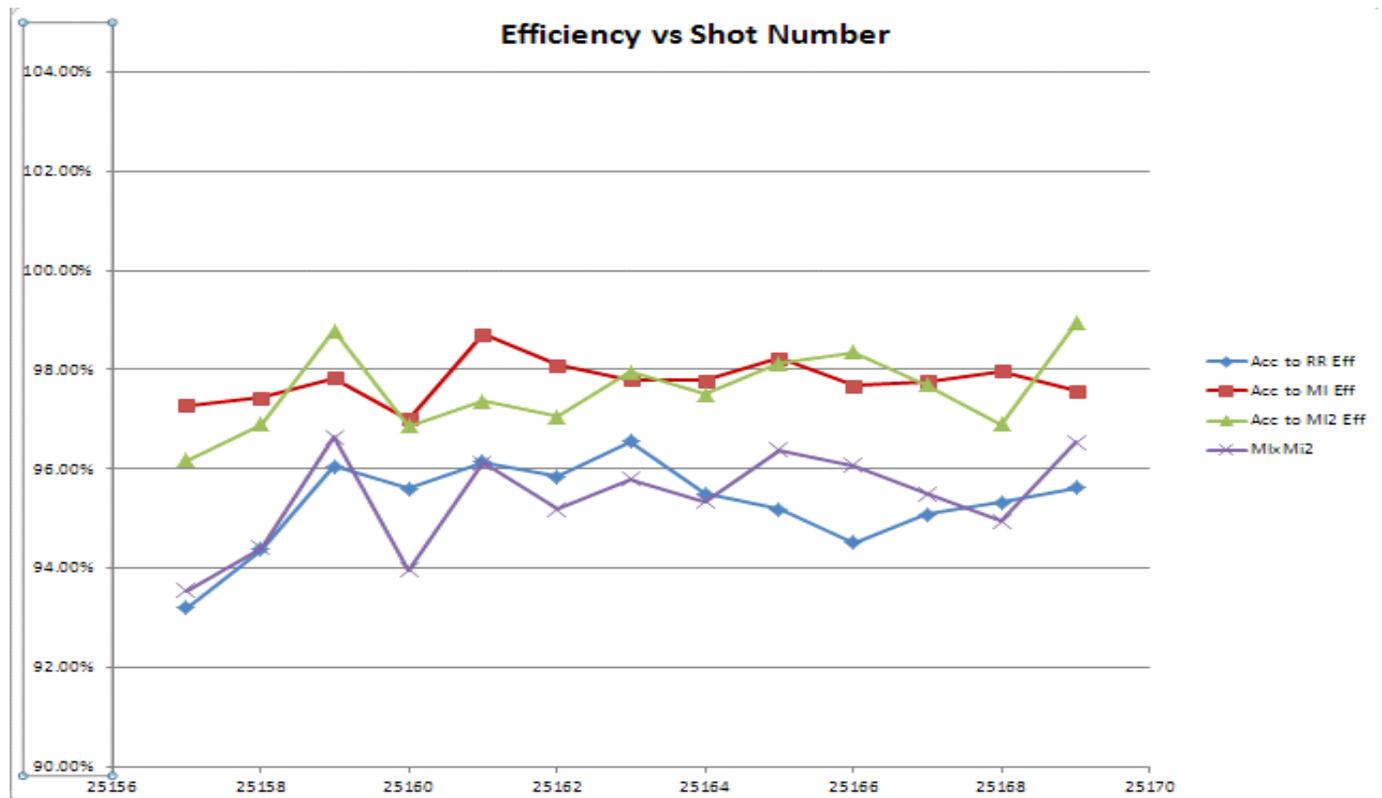


Thu Jun 09 07:00:00 CDT 2011 -- Fri Jun 10 07:00:00 CDT 2011









Column 1 Number_0_Pbar Transfer Shot #	Column 4 Number_3_Transfer Time	Column 21 Number_20_A:I BEAMB sampled on \$91 (A:BEAM7), E10	Column 22 Number_21_A:I BEAMB sampled on \$94 (A:BEAM9), E10	Unstacked (mA)	Column 23 Number_22_R:B EAMS (R:BEAM0[0]) pre fer E10	Column 24 Number_23_R:B EAM (R:BEAM0[1]) post fer, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 Efficiency	Transfers	Sets	Column 5 Number_4_Acc Horizontal Emittance	Column 6 Number_5_Acc Vertical Emittance	Column 8 Number_7_Acc Longitudinal Emittance	
Totals =>				402.30			382.09	94.98%	97.72%	97.34%	95.12%	41	13	5.0191	3.5372	1.9979	
Daily Average =>				402.30			382.09					41	13				
25169	Friday, June 10, 2011	6:40	28.55	6.27	24.89	188.52	212.12	23.80	95.63%	97.57%	98.94%	96.54%	3	1	4.686	3.208	2.021
25168	Friday, June 10, 2011	5:40	27.09	5.61	24.14	166.05	188.85	23.01	95.33%	97.97%	96.91%	94.94%	3	1	4.709	3.152	2.025
25167	Friday, June 10, 2011	4:47	33.81	7.77	28.70	139.38	166.39	27.29	95.08%	97.76%	97.69%	95.51%	3	1	4.808	3.611	2.016
25166	Friday, June 10, 2011	3:40	28.84	7.23	24.02	117.12	139.65	22.71	94.52%	97.68%	98.36%	96.07%	3	1	4.543	3.314	2.027
25165	Friday, June 10, 2011	2:52	37.95	10.07	30.25	88.87	117.45	28.79	95.18%	98.22%	98.12%	96.38%	3	1	4.925	3.701	2.034
25164	Friday, June 10, 2011	1:36	27.90	5.83	23.98	66.44	89.17	22.90	95.50%	97.78%	97.51%	95.34%	3	1	4.284	2.901	2.01
25163	Friday, June 10, 2011	0:45	28.36	7.17	23.61	43.94	66.68	22.80	96.55%	97.80%	97.95%	95.80%	3	1	4.731	3.532	2.028
25162	Thursday, June 09, 2011	23:48	47.62	7.96	43.17	3.69	44.19	41.37	95.84%	98.08%	97.05%	95.19%	4	1	5.412	3.873	1.994
25161	Thursday, June 09, 2011	22:01	26.65	5.66	23.50	144.03	166.47	22.59	96.14%	98.72%	97.37%	96.12%	3	1	4.719	2.974	1.972
25160	Thursday, June 09, 2011	21:07	26.97	6.18	23.21	122.27	144.30	22.19	95.60%	97.01%	96.86%	93.97%	3	1	5.201	3.465	2.01
25159	Thursday, June 09, 2011	20:15	27.33	6.00	23.71	99.83	122.47	22.78	96.06%	97.84%	98.79%	96.65%	3	1	5.019	3.302	2.003
25158	Thursday, June 09, 2011	19:50	35.31	21.35	13.95	86.85	100.02	13.17	94.38%	97.43%	96.90%	94.42%	1	1	6.04	4.646	1.961
25157	Thursday, June 09, 2011	18:37	99.85	10.23	95.15	0.40	87.40	88.69	93.20%	97.28%	96.17%	93.55%	6	1	6.171	4.304	1.872