

PS converter (when used): 750  $\mu\text{m}$  Be

**Check HV settings on 9 modules**

Ebeam = 8.94,  $2 \times 10^{-5}$ , 1.5 nA, PS magnet current 275 A, Empty target

52543	(-4, 6)	hd_all.tsg_ccal_tagger_tac
52544	(-2, 6)	CCAL_TAGGER_TAC_m9
52545	(-6, 5)	
52547	(-4, 4)	
52548	(5, 4)	
52549	(4, -2)	
52550	(5, -5)	
52551	(-2, -6)	
52552	(-6, -4)	

**Production in RAW mode (mode 10, unparsified data)**

Ebeam = 8.94,  $2 \times 10^{-5}$ , 1.5 nA, PS magnet current 275 A, Empty target  
CELL (-4,-4)

52559	1.6 M	DAQ not completely tuned, L.T. 95 %	hd_all.tsg_ccal_tagger_ps_tac
52560	2.9 M		CCAL_TAGGER_PS_TAC_m10
52561	2.2 M		

**Rate Scan, Nominal HV, production mode**

$3 \times 10^{-4}$ , LH2

	Current	Max rate per module	LED rate	
52563	250 nA	400 kHz	10 Hz	hd_all.tsg_ccal_prod
52564	350 nA	560 kHz	10 Hz	CCAL_FCAL_PS_m9
52565	450 nA	720 kHz	10 Hz	
52567	550 nA	880 kHz	100 Hz	

52568	650 nA	1000 kHz	100 Hz
52569	150 nA	250 kHz	200 Hz
52570	50 nA	80 kHz	200 Hz
52571	550 nA	880 kHz	200 Hz
52572	450 nA	720 kHz	200 Hz
52573	350 nA	560 kHz	200 Hz
52574	250 nA	400 kHz	200 Hz

Some previous runs ( $10^{-4}$  radiator)

52193	350 nA
52194	200 nA
52195	100 nA
52196	no beam

**Rate Scan, Nominal HV, cell (4, 4) in beam**

**Ebeam = 8.94,  $2 \times 10^{-5}$ , 1.5 nA + , PS magnet current 275 A, Empty target**

52578	160 kHz	Read THR = 108 ADC counts	hd_all.tsg_ccal_tagger_ps_tac
52579	300 kHz	TRIG THR = 110 ADC counts	CCAL_TAGGER_PS_TAC_m10
52580	500 kHz		
52581	500 kHz		
52582	600 kHz		
52583	780 kHz		
52584	1200 kHz		
52585	700 kHz	prescale main trigger	
52586	850 kHz		
52587	1200 kHz		
52588	600 kHz		
52589	500 kHz	unstable current	
52590	500 kHz		
52591	400 kHz		
52592	275 kHz		
52593	160 kHz		

52595 No beam

**Production in RAW mode (mode 10, unparsified data), TAC runs**

**Ebeam = 8.94,  $2 \times 10^{-5}$ , 1.5 nA, PS magnet current 275 A, Empty target  
CELL (4,4)**

52633 3 M

hd\_all.tsg\_ccal\_tagger\_ps

52635 11.9 M

CCAL\_TAGGER\_PS\_m10

**Restore PS field (magnet current 682.5 A )**

**CELL (4, -1)**

52636 15.2 M

52637 7.5 M

**PS magnet current 682.5 A**

**CELL (4, -4)**

52638 5.2 M

52639 16.8 M

52640 8.3 M

52641 9.2 M

52642 1.8 M

**2 V FADC range on 5x5 modules around cell (4, 4)**

**Increase HVs by 50 V**

**Ebeam = 8.94,  $2 \times 10^{-5}$ , 1.5 nA, PS magnet current 682.5 A, Empty target**

52646 (4, 4)

hd\_all.tsg\_ccal\_tagger\_tac

52647 (3, 4)

CCAL\_TAGGER\_TAC\_m9

52648 (3, 4)

52649 (5, 4)

52650 (6, 4)

52651	(6, 3)
52652	(5, 3)
52653	(4, 3)
52654	(3, 3)
52655	(2, 3)
52656	(2, 2)
52657	(3, 2)
52658	(4, 2)
52659	(5, 2)
52660	(6, 2)
52661	(6, 5)
52662	(5, 5)
52663	(4, 5)
52664	(3, 5)
52665	(2, 5)
52666	(2, 6)
52667	(3, 6)
52668	(4, 6)
52669	(5, 6)
52670	(6, 6)

Shutter

**Production in RAW mode (mode 10, unparsified data), 2 V FADC Range**

**Ebeam = 8.94,  $2 \times 10^{-5}$ , 1.5 nA, 750 mm, PS magnet current 682.5 A, Empty target  
CELL (4, 4)**

52672 3.1 M  
52673 18.6 M

hd\_all.tsg\_ccal\_tagger\_ps  
CCAL\_TAGGER\_PS\_TAC\_m10

**Rate Scan, 2 V FADC Range, cell (4, 4) in beam**

**Ebeam = 8.94 GeV,  $2 \times 10^{-5}$ , 1.5 nA +, PS magnet current 682.5 A, Empty target  
CELL (4, 4)**

52674 100 kHz  
52675 150 kHz  
52676 300 kHz  
52677 500 kHz  
52678 750 kHz  
52679 1000 kHz

hd\_all.tsg\_ccal\_tagger\_ps  
CCAL\_TAGGER\_PS\_TAC\_m10

**Scan Holes Between CCAL Modules. TAC is behind the CCAL (Triggers: PS, CCAL, TAC)**

**Ebeam = 8.94 GeV,  $2 \times 10^{-5}$ , 1.5 nA, PS magnet current 682.5 A, Empty target**

52708

scan between rows -1 and 1 (columns -6 and -3)

hd\_all.tsg\_ccal\_tagger\_ps\_tac  
CCAL\_TAGGER\_PS\_TAC\_m10

52709

scan in the middle of row 1 between columns -6 and -3