

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 16533 - L2 Version 1  
Chandra X-Ray Center

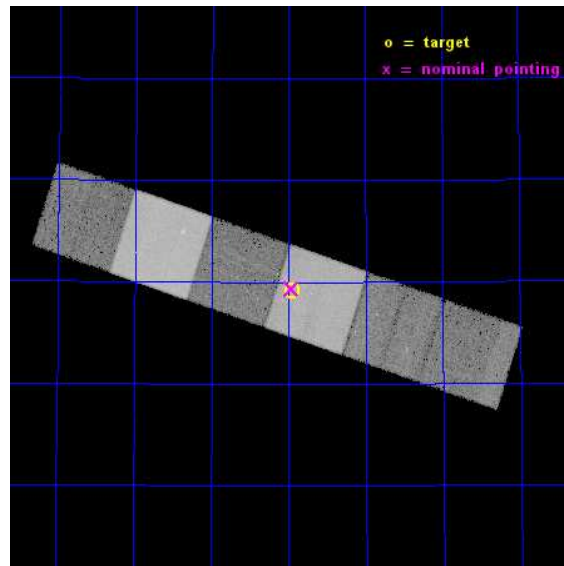
L2 Processing Date : Mar 1 2015

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# 1 Front

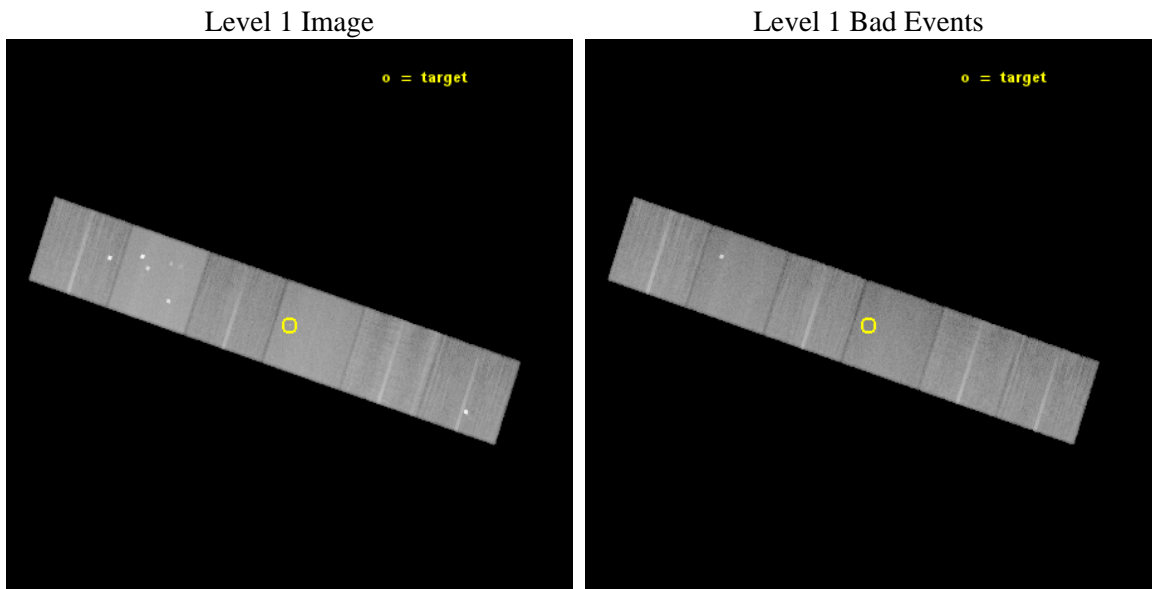
seq_num	200949	Sequence number
obs_id	16533	Observation id
title	Line Profile Diagnostics of the Wind in HD 206267	Proposal title
observer	Prof. Claude Canizares	Principal investigator
object	HD 206267	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	324.739583	Observer's specified target RA [deg]
dec_targ	57.486389	Observer's specified target Dec [deg]
ra_nom	324.74109582341	Nominal RA [deg]
dec_nom	57.489395603425	Nominal Dec [deg]
roll_nom	18.394936079106	Nominal Roll [deg]
revision	1	Processing version of data
ontime	45958.400684834	Sum of GTIs [s]
livetime	45376.447742536	Livetime [s]
ontime4	45958.400684834	Sum of GTIs [s]
ontime5	45958.400684834	Sum of GTIs [s]
ontime6	45958.400684834	Sum of GTIs [s]
ontime7	45958.400684834	Sum of GTIs [s]
ontime8	45958.400684834	Sum of GTIs [s]
ontime9	45958.400684834	Sum of GTIs [s]
l2events	398411	Number of level 2 events



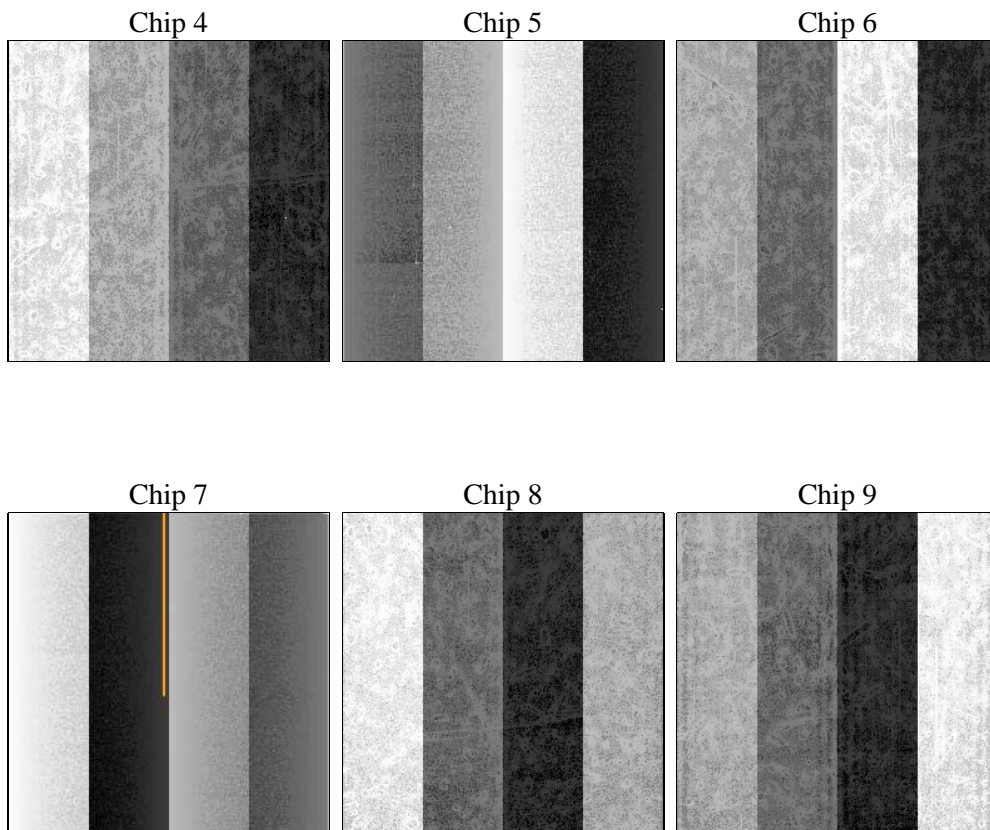
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	46000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	45958.400684834	Sum of GTIs [s]
caldbver	4.6.7	&#160	ontime4	45958.400684834	Sum of GTIs [s]
date	2015-03-02T02:17:03	Date and time of file creation	ontime5	45958.400684834	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	45958.400684834	Sum of GTIs [s]
			ontime7	45958.400684834	Sum of GTIs [s]
			ontime8	45958.400684834	Sum of GTIs [s]
			ontime9	45958.400684834	Sum of GTIs [s]
			l1events	1722604	Number of level 1 events
			tgmethod	TGDETECT	Method used to create src1a file
			ra_pos	(4100.20, 4004.20)	src1a sky pixel position

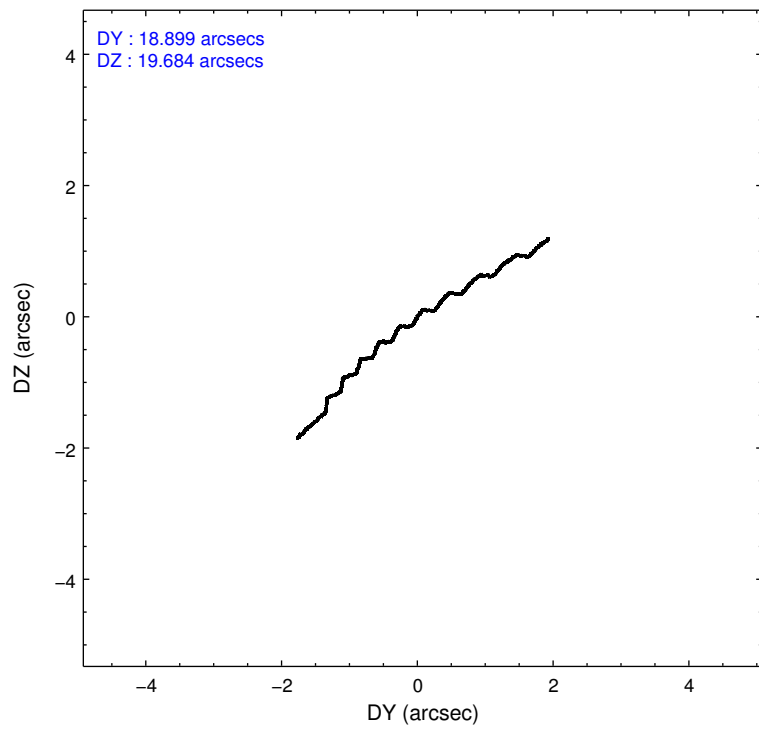
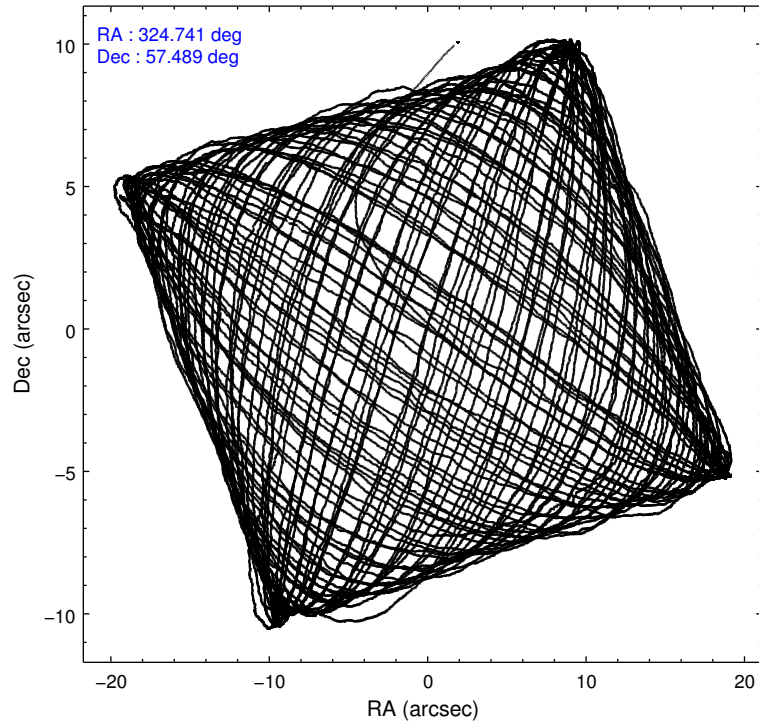
### 2.1.4 Events

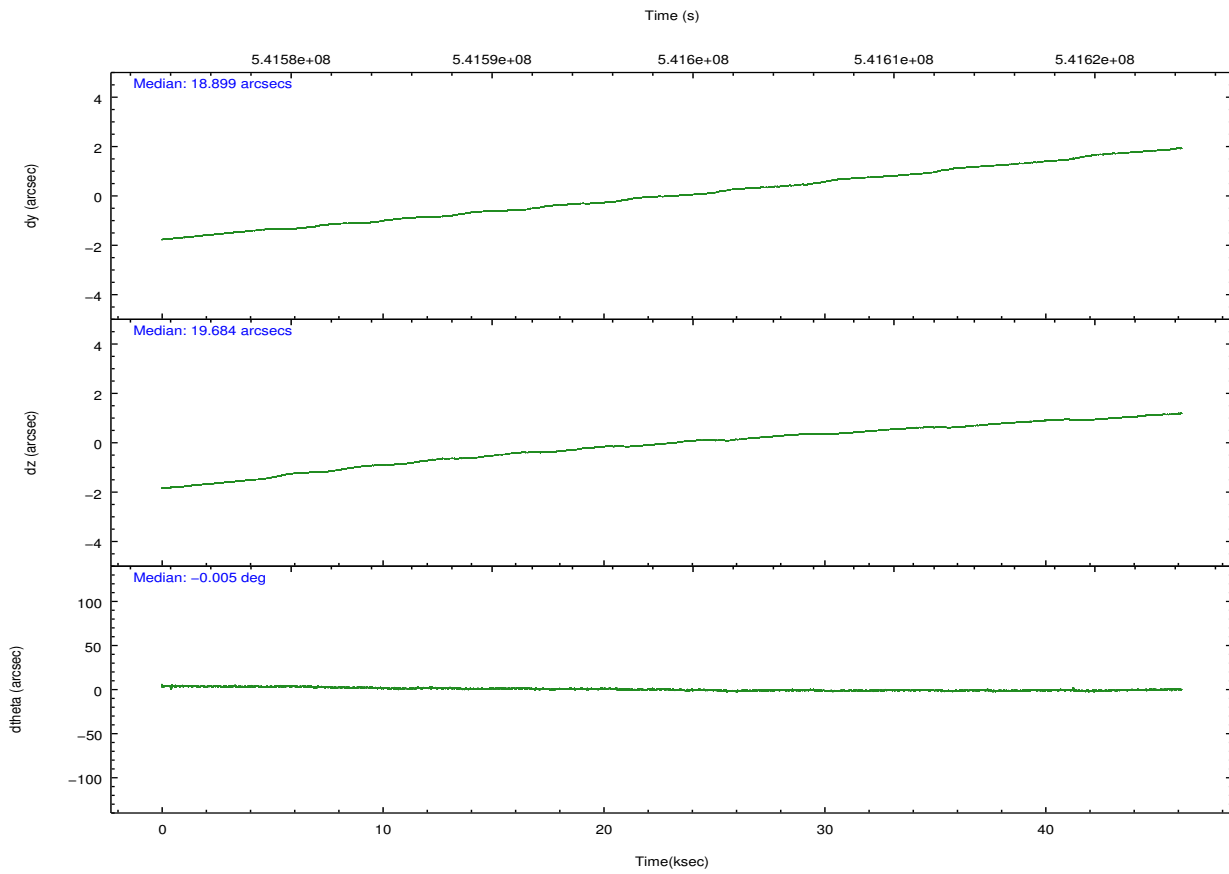
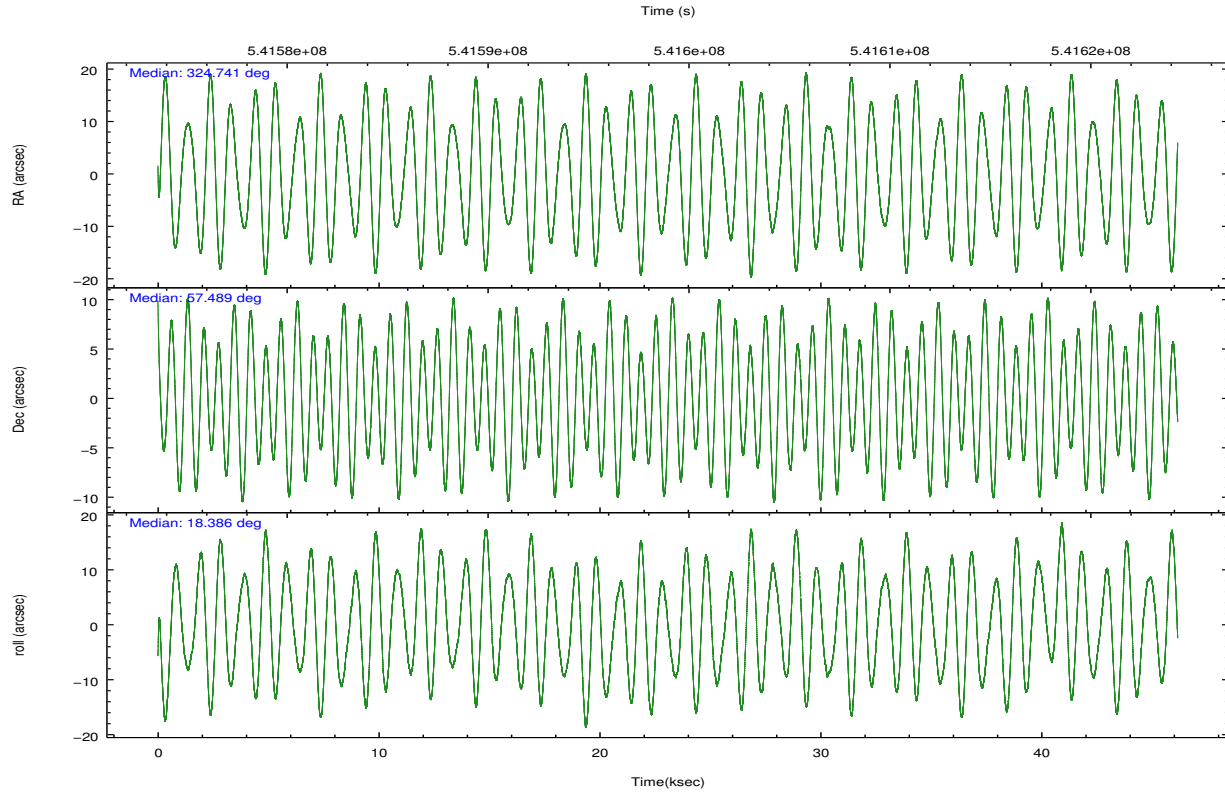
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	267194	386002	226524	302231	298767	241886	grade 0 events	22773	22216	9912	11755	24674	10565
rejected events	226381	194006	198629	169742	215508	199134		8%	5%	4%	3%	8%	4%
rejected %	84%	50%	87%	56%	72%	82%	grade 1 events	283	658	110	377	226	146
								0%	0%	0%	0%	0%	0%
							grade 2 events	7134	62118	6291	27786	19674	20121
								2%	16%	2%	9%	6%	8%
							grade 3 events	3048	6103	2733	11205	8396	2884
								1%	1%	1%	3%	2%	1%
							grade 4 events	2813	5831	2752	11253	7931	2849
								1%	1%	1%	3%	2%	1%
							grade 5 events	11833	27496	11310	31063	16841	12729
								4%	7%	4%	10%	5%	5%
							grade 6 events	5047	95755	6211	70503	22586	6337
								1%	24%	2%	23%	7%	2%
							grade 7 events	214263	165825	187205	138289	198439	186255
								80%	42%	82%	45%	66%	77%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	324.707706	324.7410958234104	CCD I2 on	N	N
[deg] Pointing Dec	57.468625	57.48939560342524	CCD I3 on	N	N
[deg] Pointing Roll	18.266469	18.39493607910641	CCD S0 on	O1	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	541576023.184000	541574774.73779	CCD S5 on	O2	Y
Observation start date	2015-03-01T05:45:56	2015-03-01T05:26:14	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	541622023.184000	541622939.49049	On-chip summing requested	N	N
Observation end date	2015-03-01T18:32:36	2015-03-01T18:48:59	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





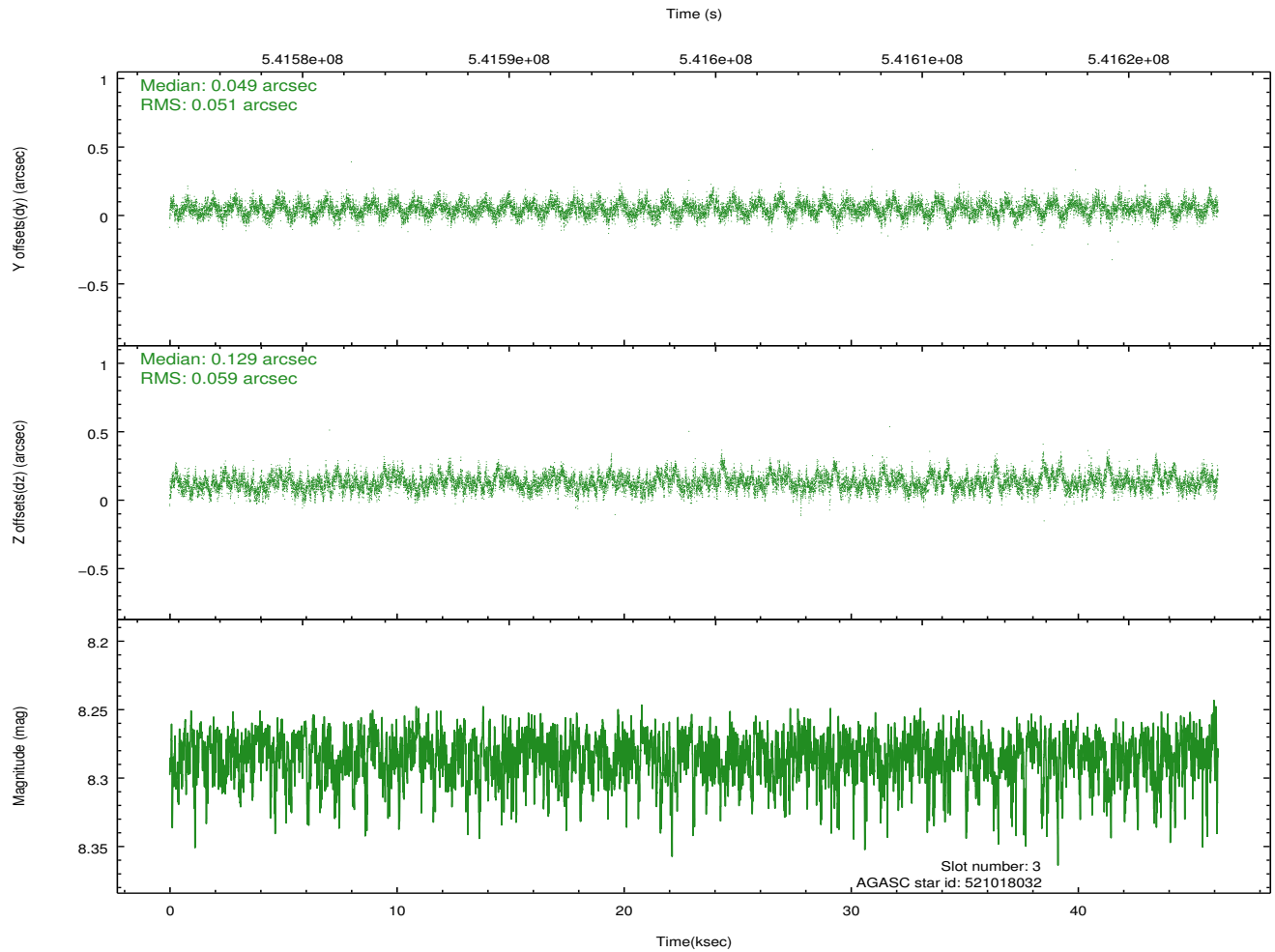
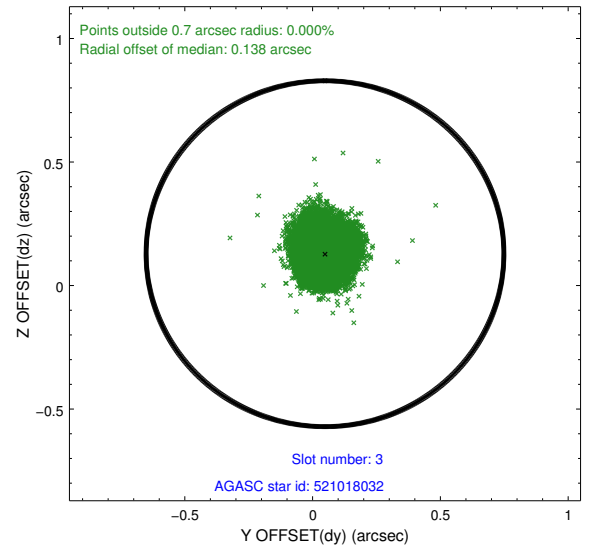
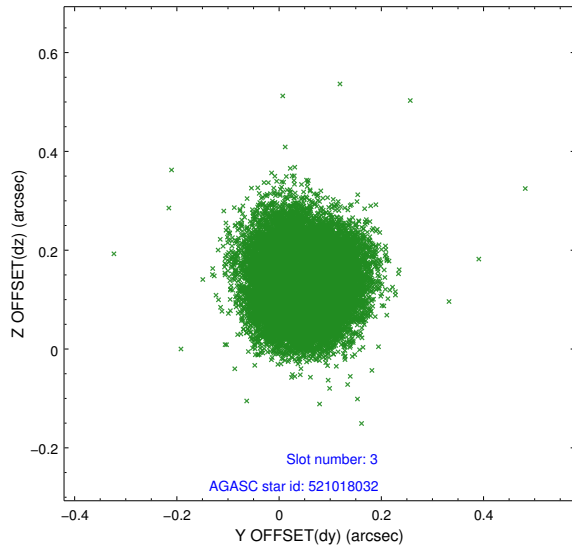
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.02	11259	0.232	0.010	0.017	0.029	0.000000	0.000000	2141.56	167.64
1	FID		ACIS-S-5	7.04	11259	-0.268	0.003	0.029	0.040	0.000000	0.000000	-1825.14	161.05
2	FID		ACIS-S-6	7.16	11258	0.008	0.001	0.019	0.028	0.000000	0.000000	389.59	804.82
3	GUIDE	used	521018032	8.28	22512	0.049	0.129	0.083	0.134	324.637664	57.165729	-471.18	-992.49
4	GUIDE	used	521019872	9.15	22503	0.097	0.071	0.142	0.223	325.851932	57.023145	1632.97	-2207.49
5	GUIDE	used	521020112	7.79	22511	0.066	0.194	0.097	0.147	324.609515	56.973735	-740.73	-1631.32
6	GUIDE	used	521011352	8.90	22506	-0.090	-0.086	0.097	0.159	324.841297	57.653322	452.83	550.92
7	GUIDE	used	521538536	8.37	22515	-0.127	-0.308	0.077	0.128	325.283967	58.265790	1936.95	2387.68

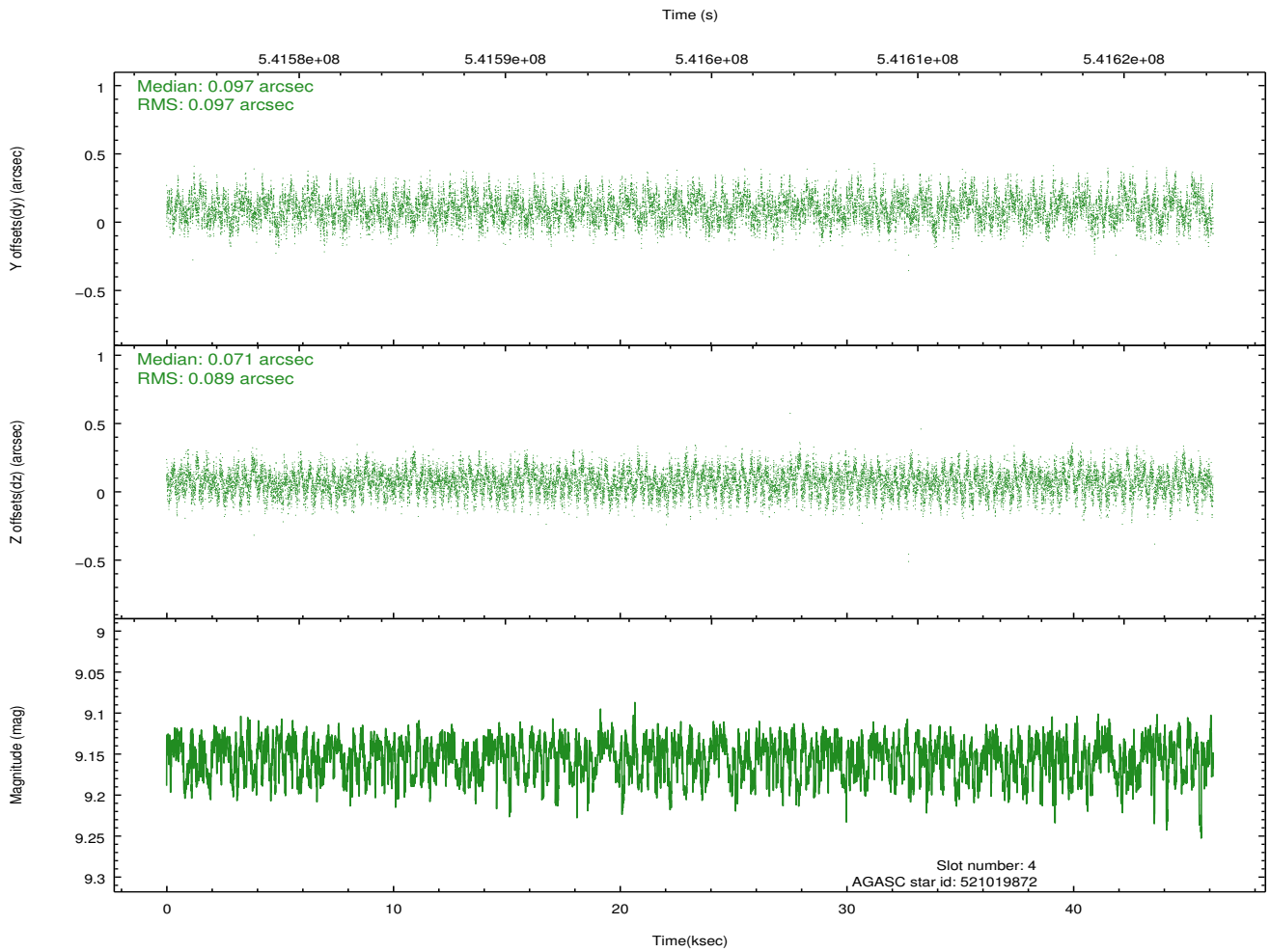
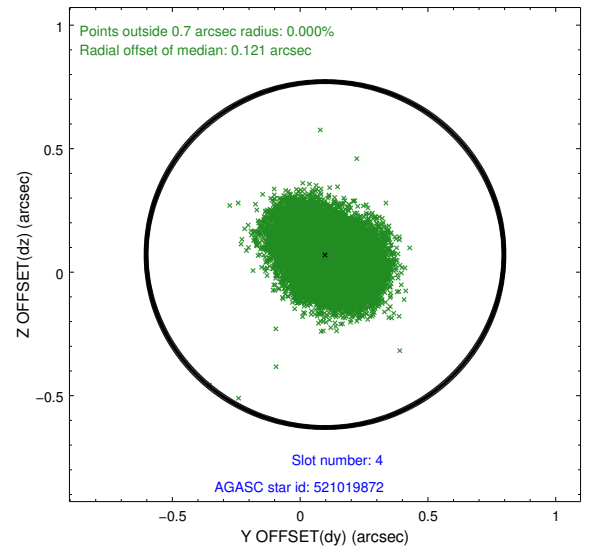
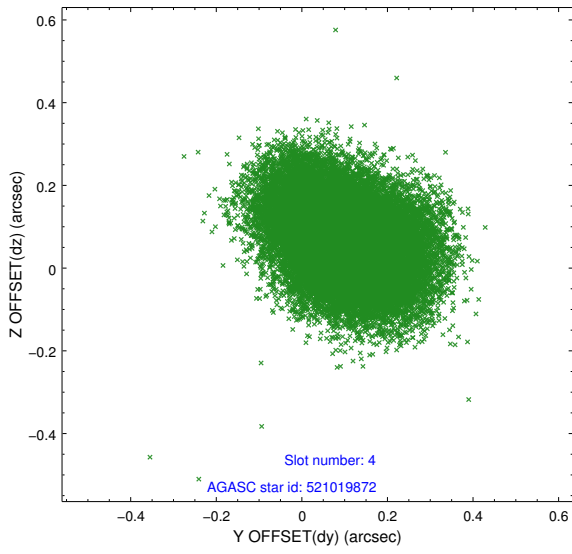
∞

## 2.4 Star Slots

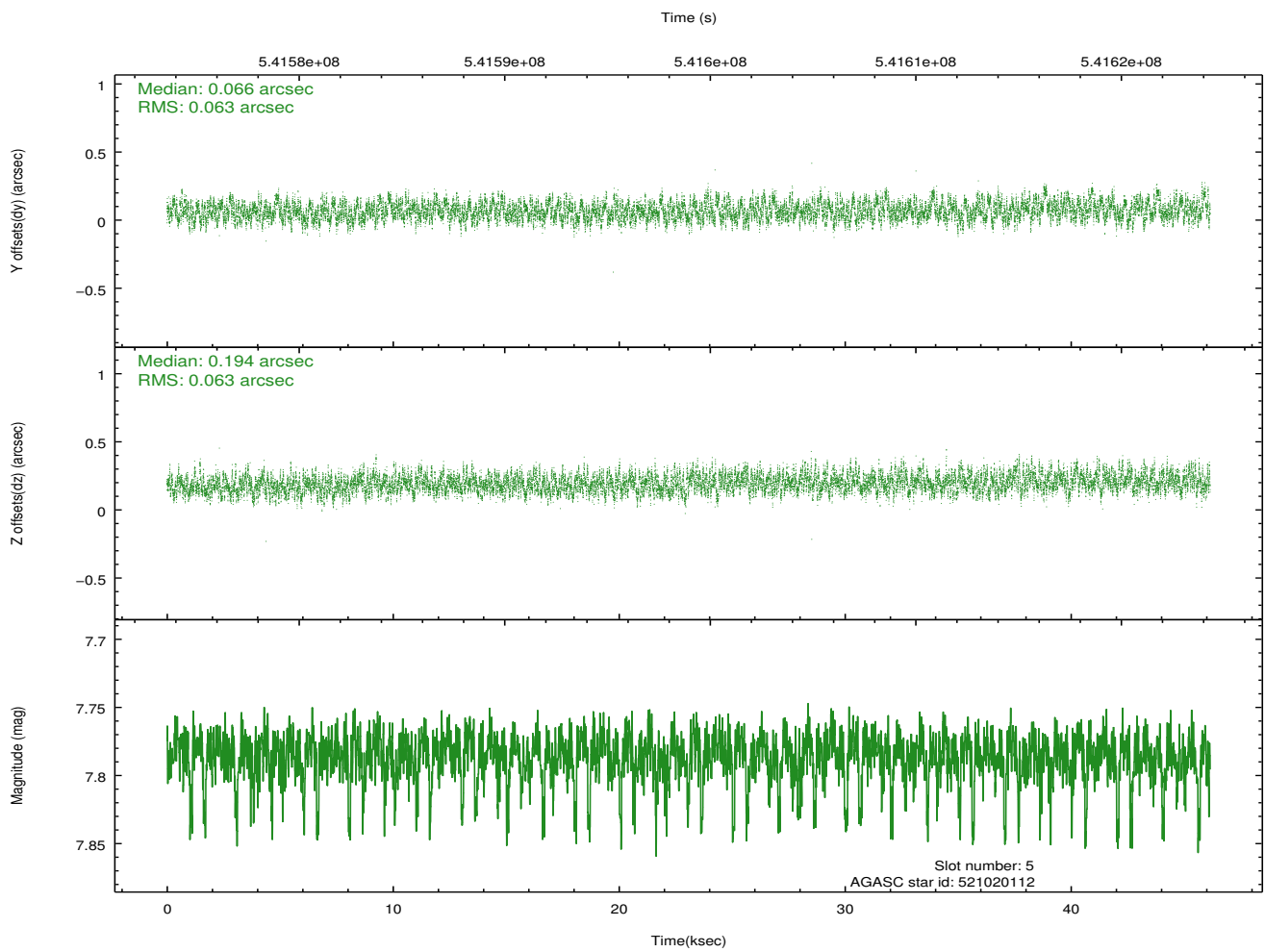
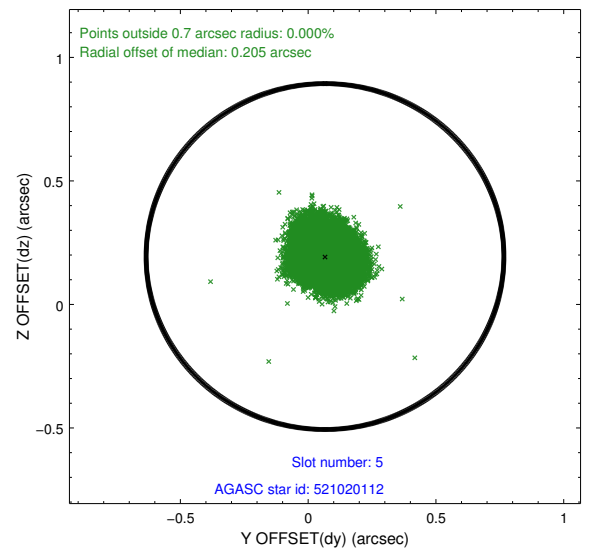
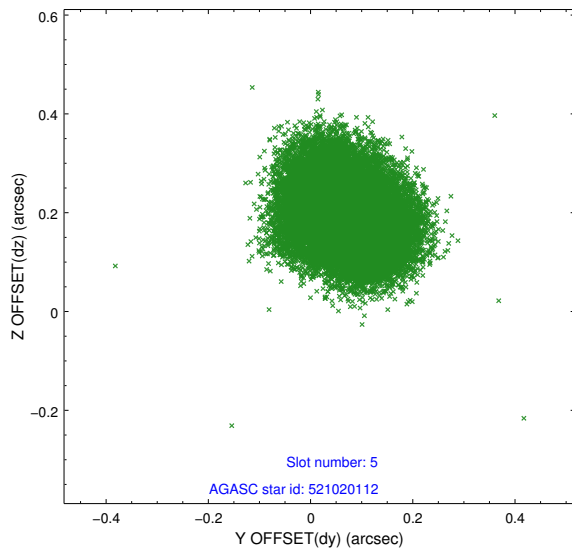
### 2.4.1 Slot 3



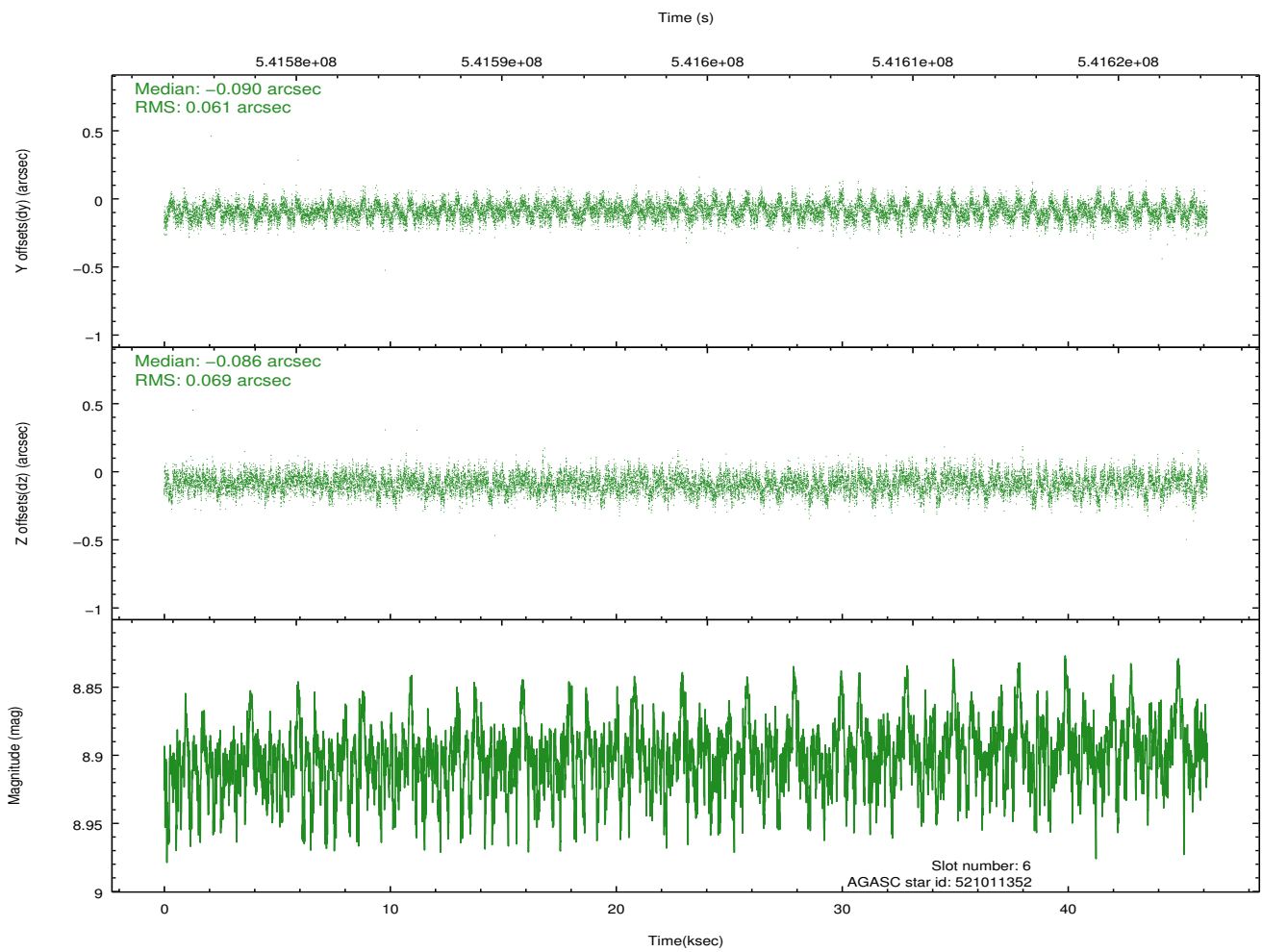
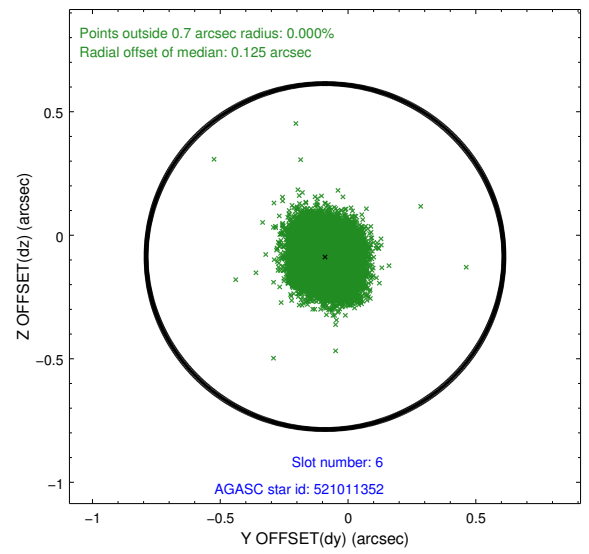
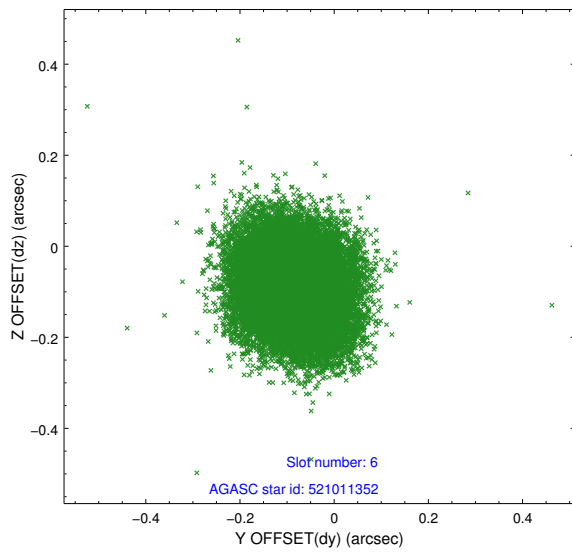
### 2.4.2 Slot 4



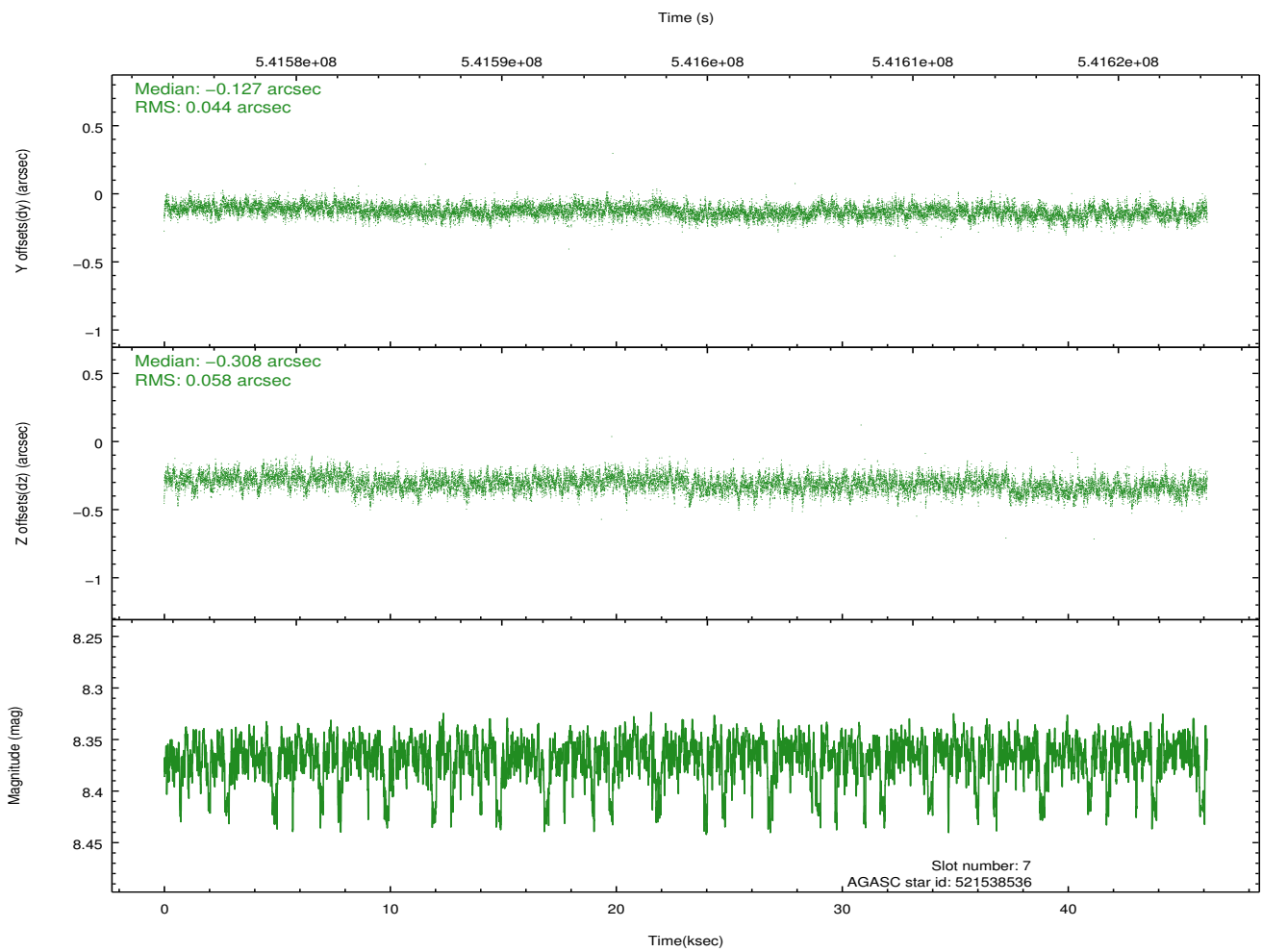
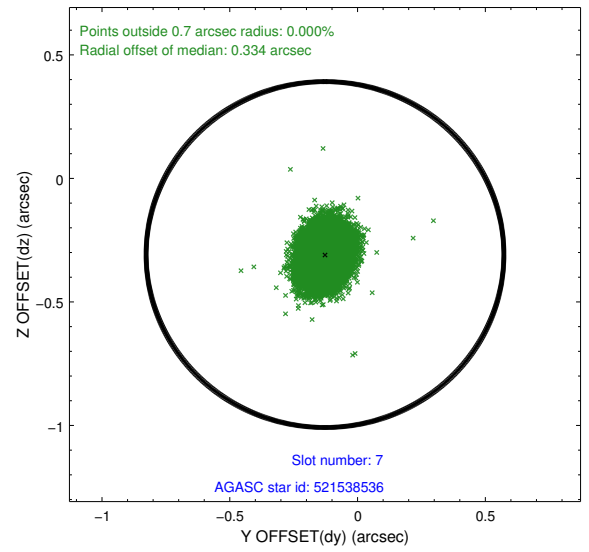
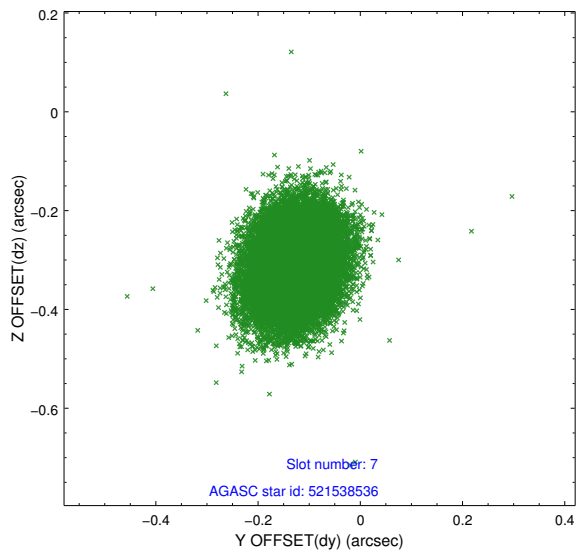
### 2.4.3 Slot 5



## 2.4.4 Slot 6

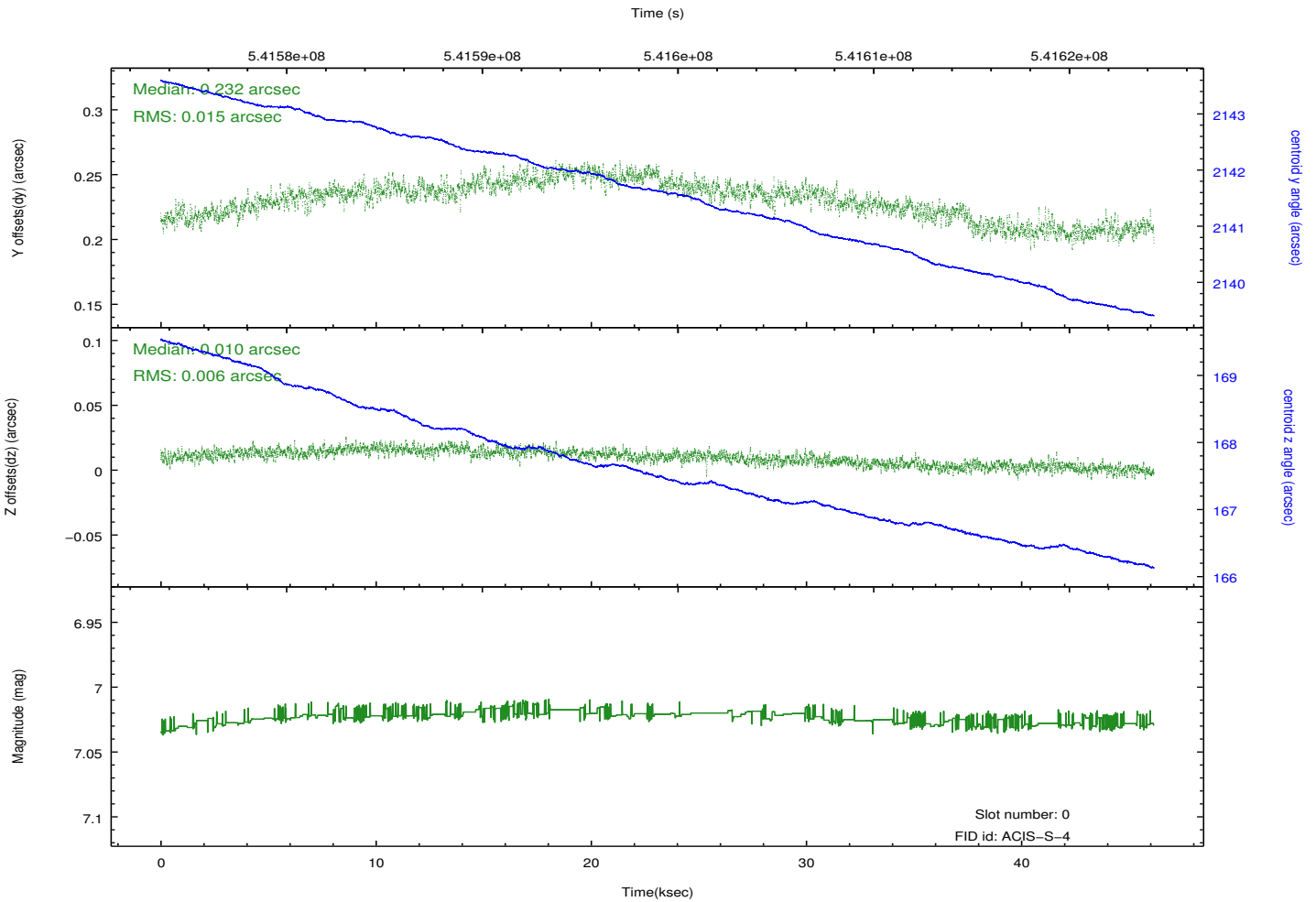
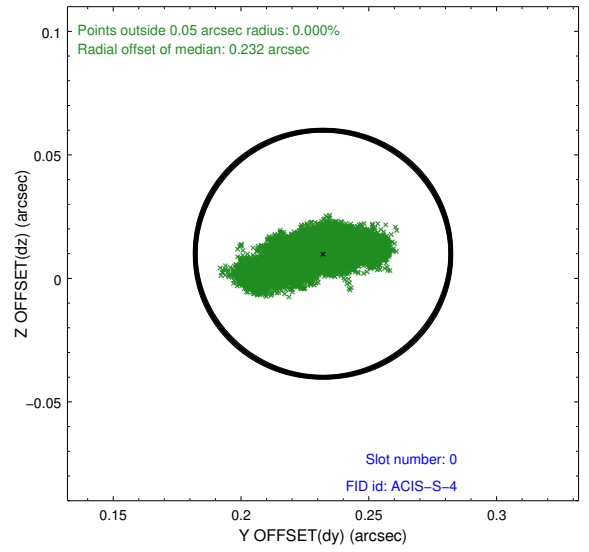
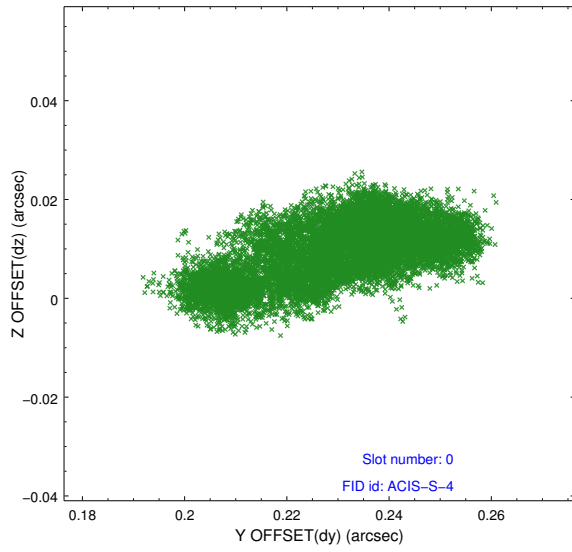


## 2.4.5 Slot 7

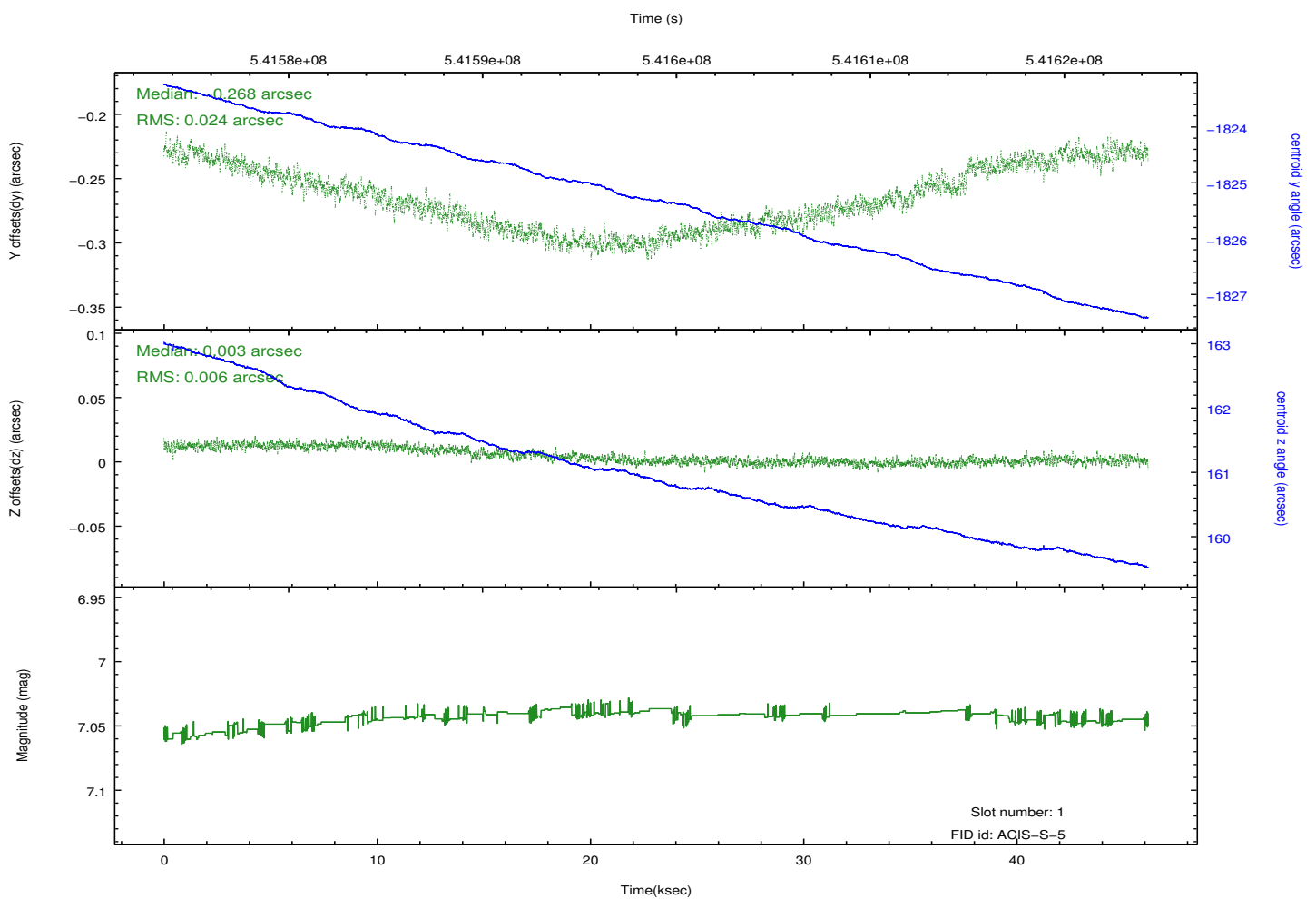
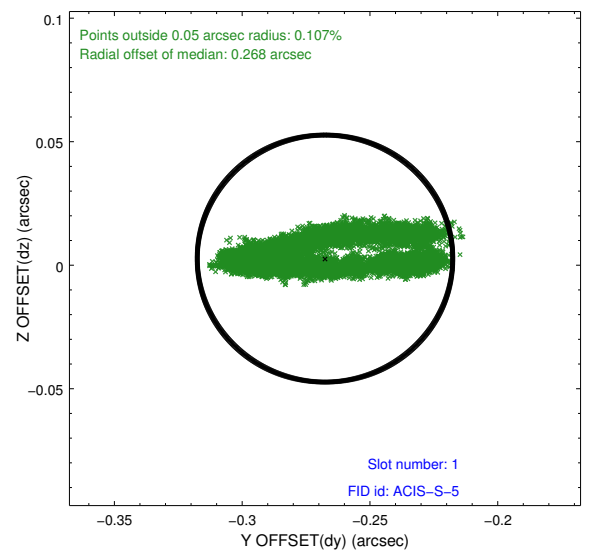
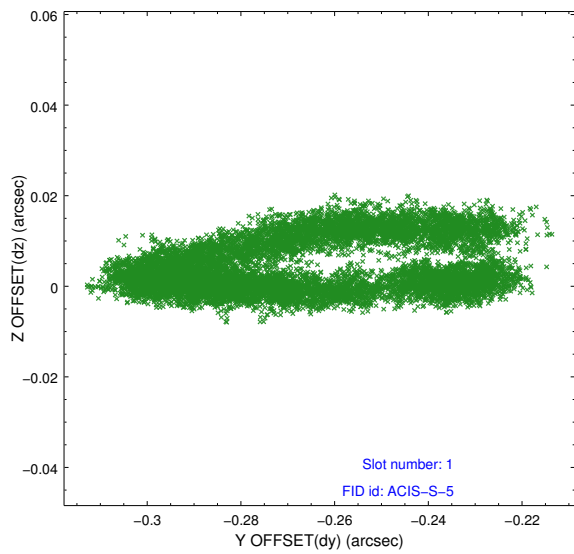


## 2.5 FID Slots

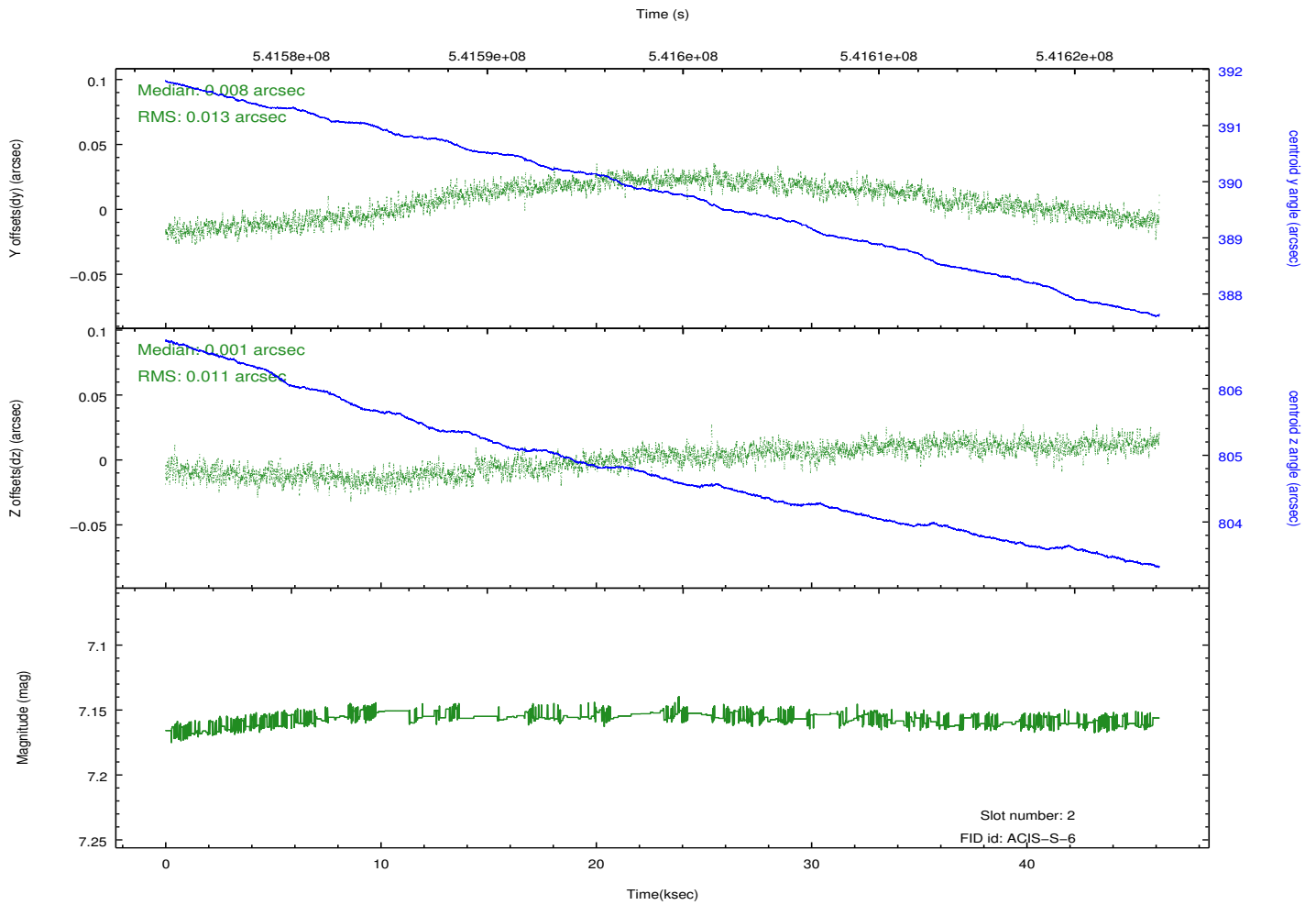
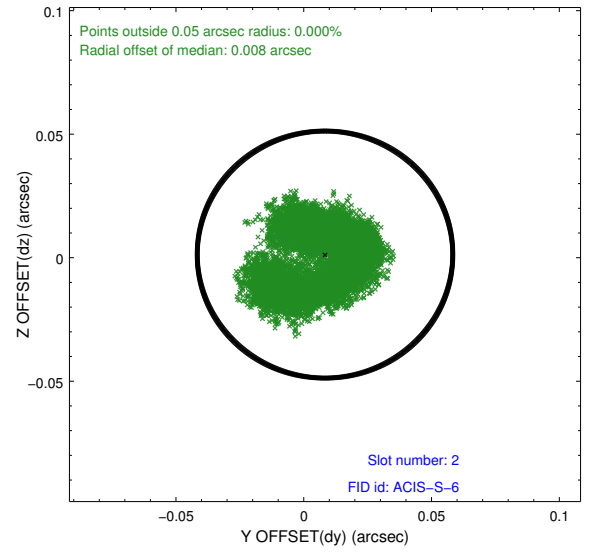
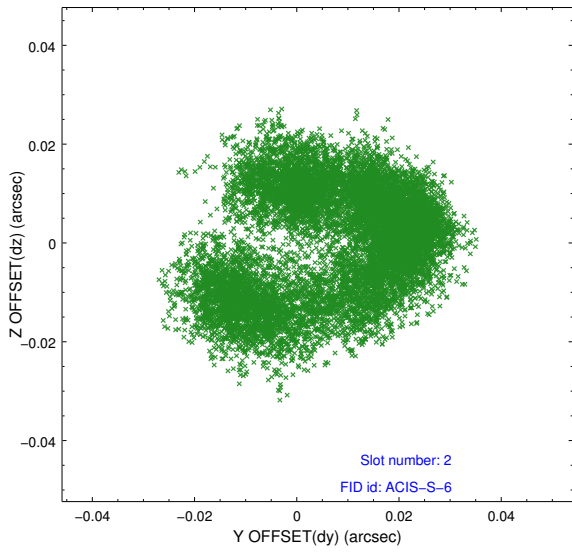
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2

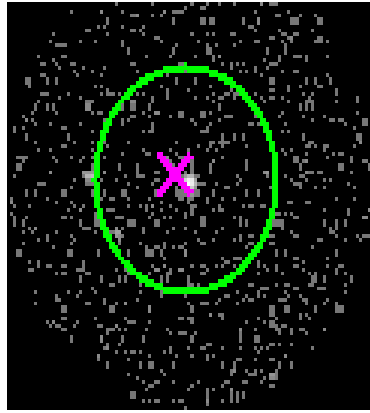


### 3 Gratings

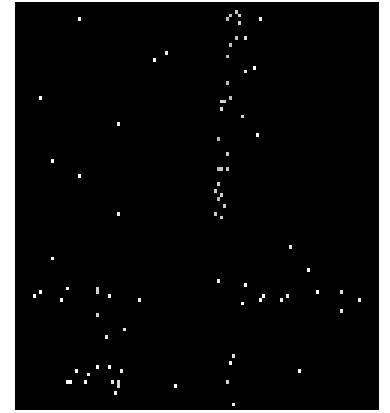
#### 3.1 HEG Arm



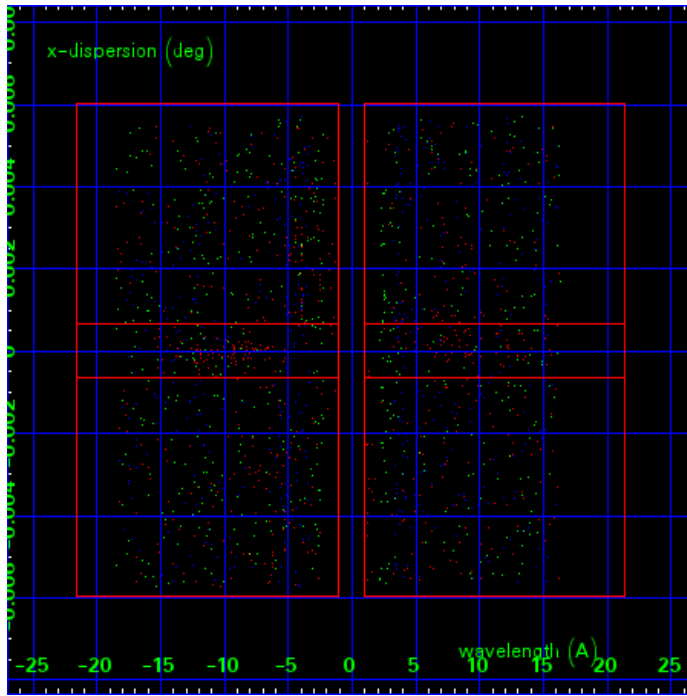
HEG Order Sort 123



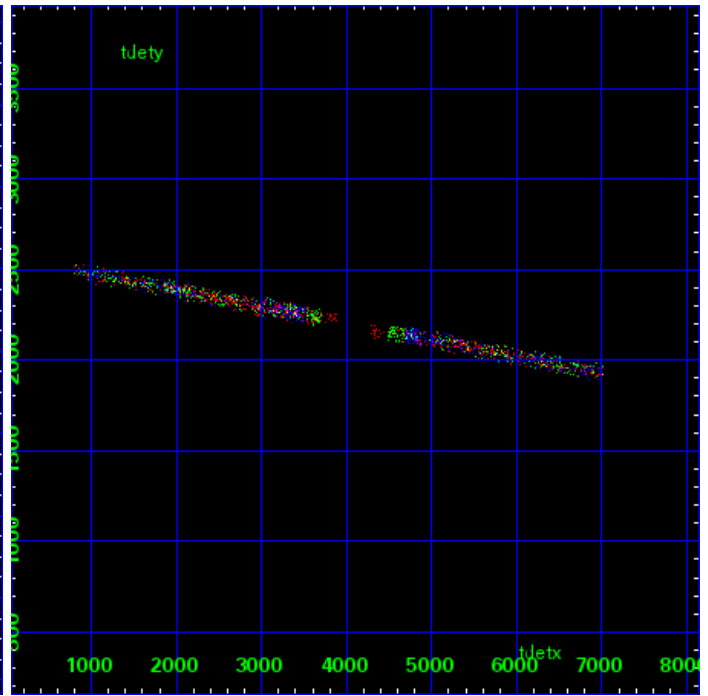
HEG Zero Order



HEG Order Sort ALL

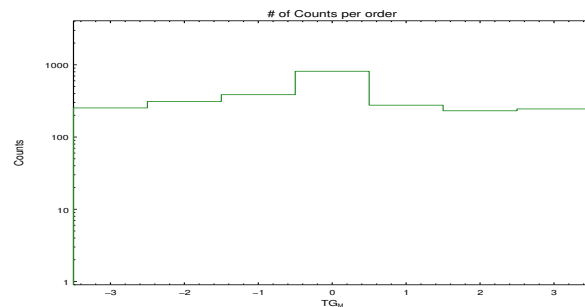


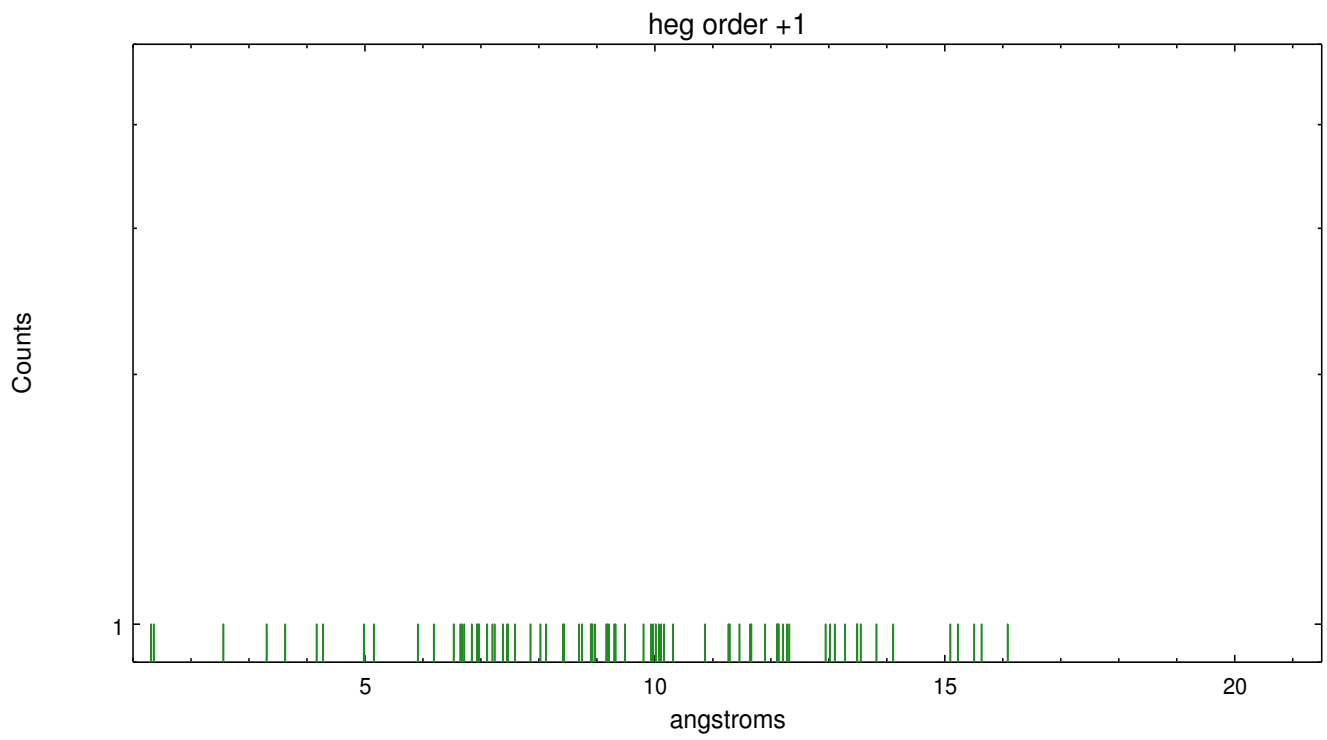
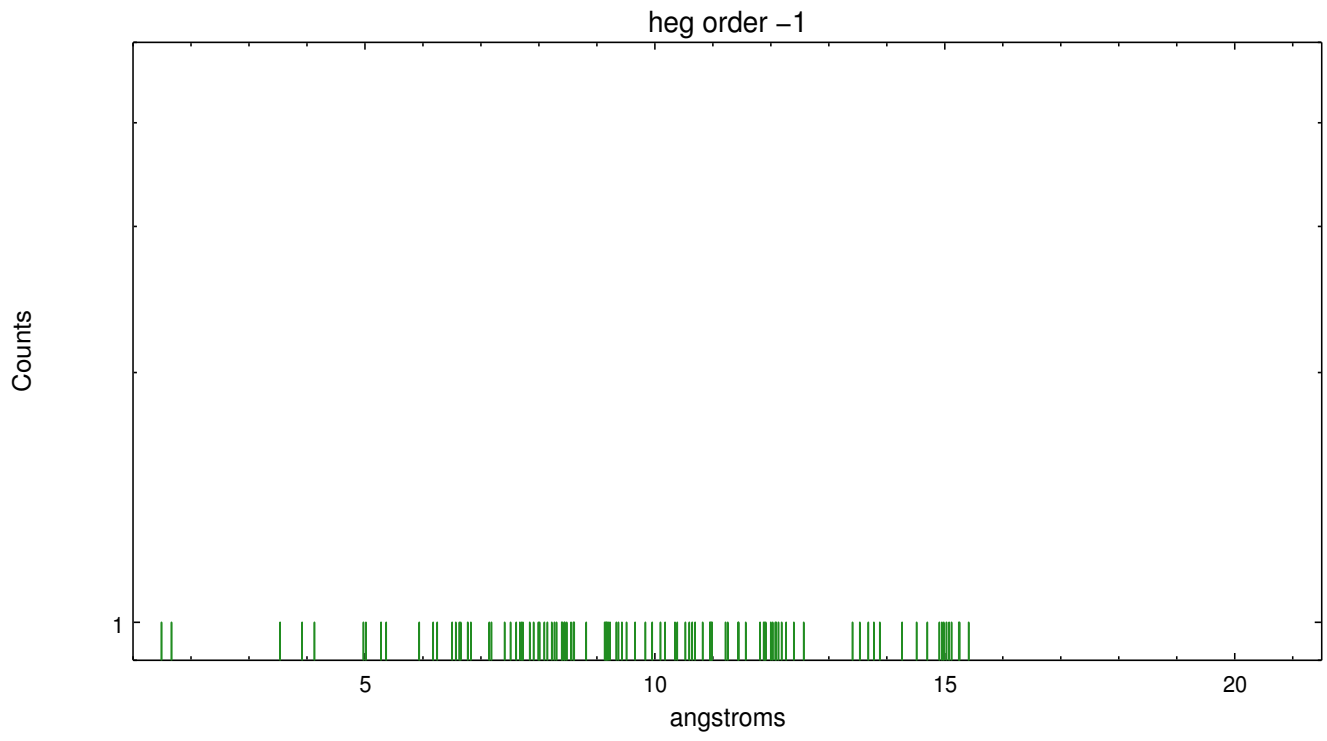
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	253	311	386	814	276	231	245

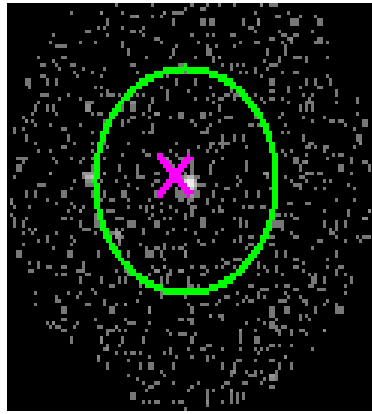




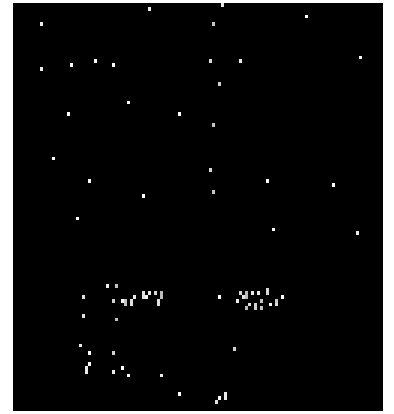
### 3.2 MEG Arm



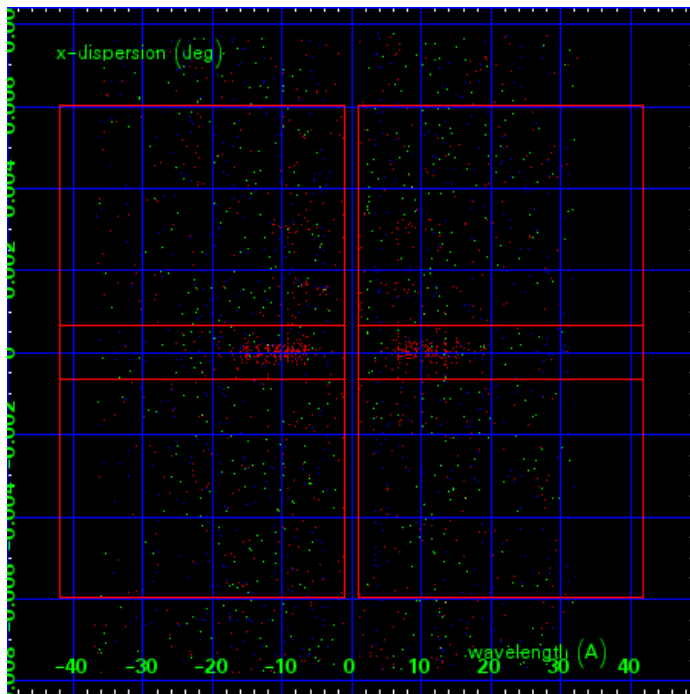
MEG Order Sort 123



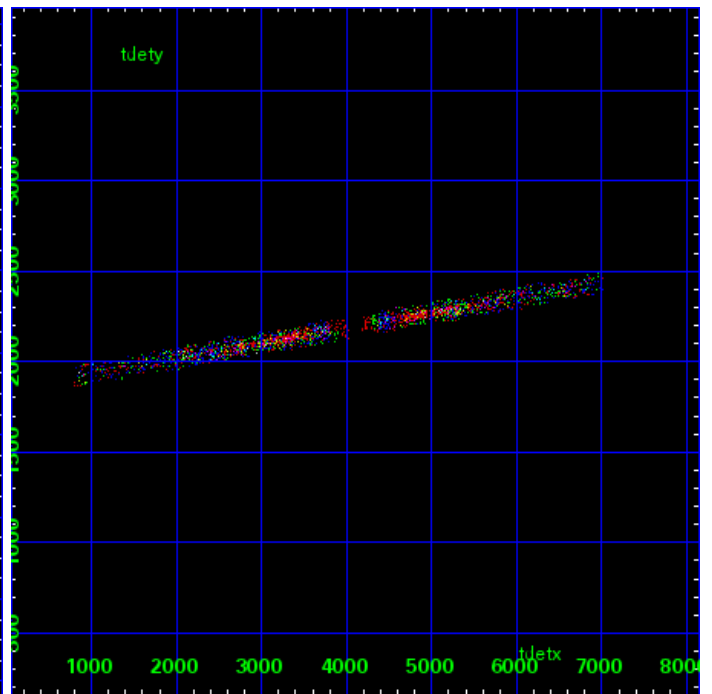
MEG Zero Order



MEG Order Sort ALL

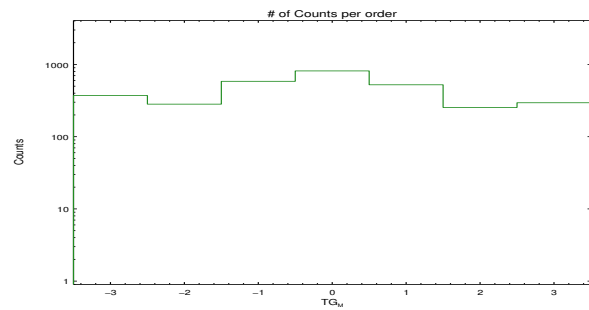


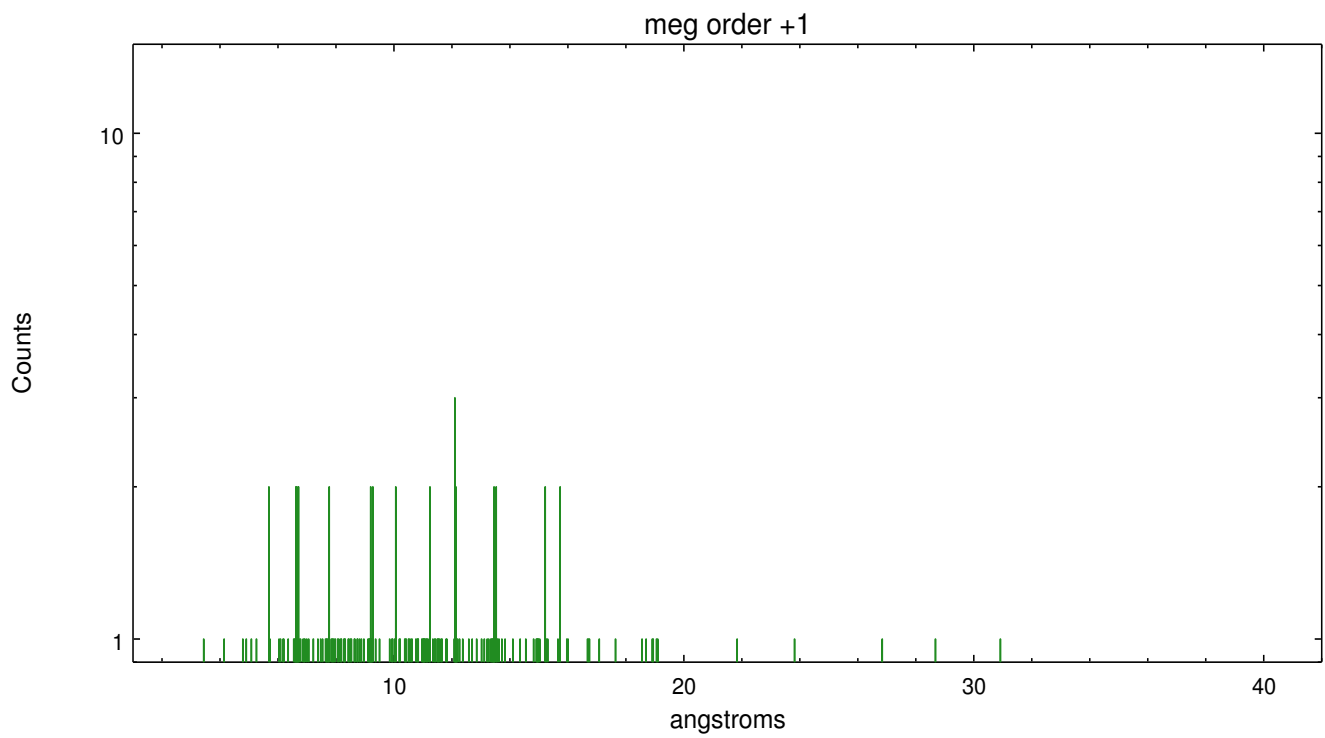
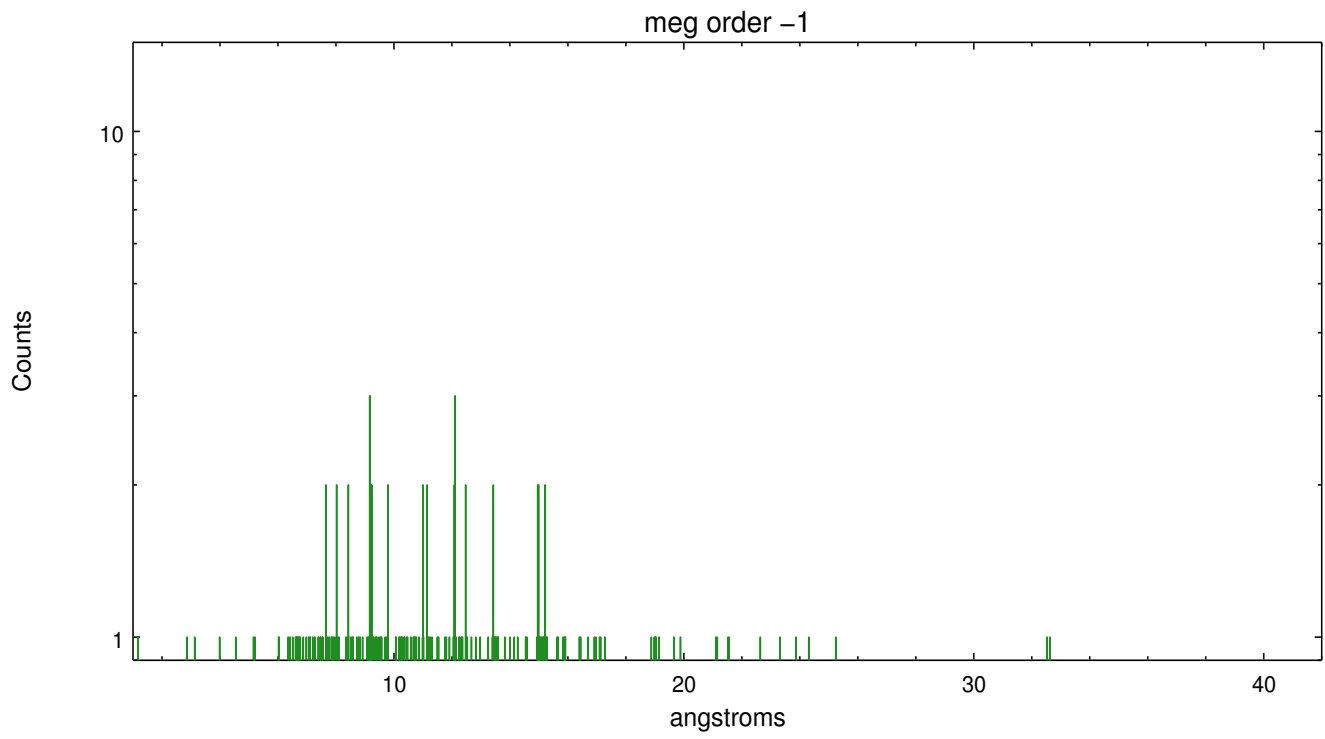
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	371	282	584	814	523	254	295





# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.03.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.958400684834

## A.2 Comments