

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 554 - L2 Version 3  
Chandra X-Ray Center

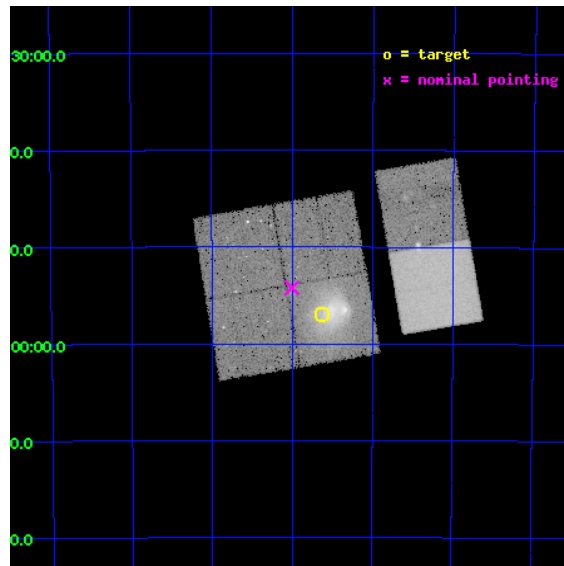
L2 Processing Date : Sep 2 2012

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# 1 Front

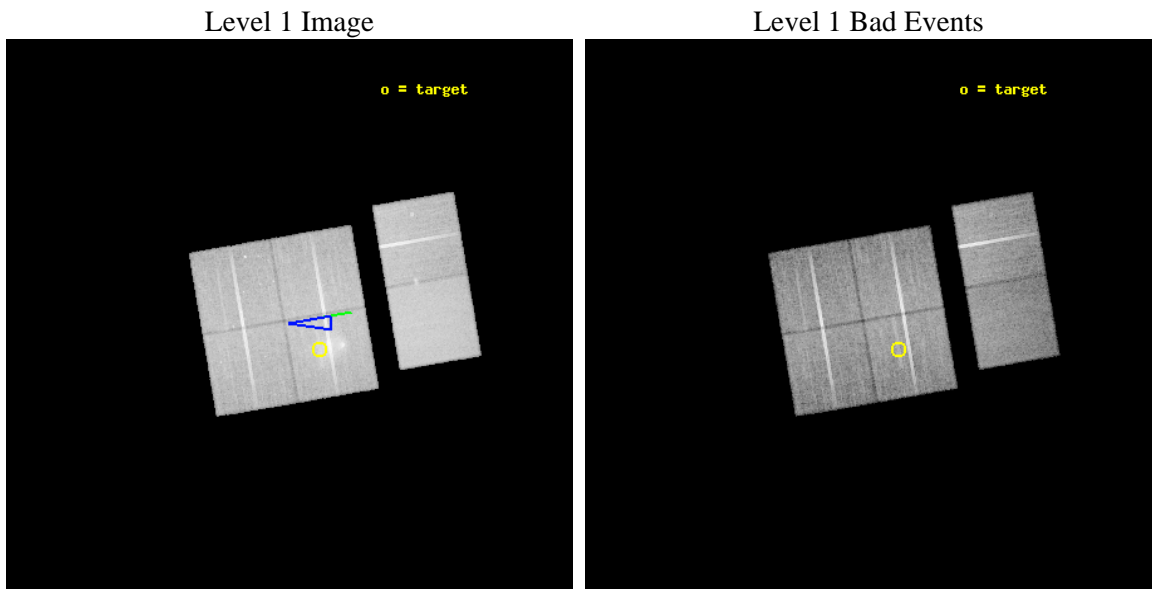
seq_num	800062	Sequence number
obs_id	554	Observation id
title	TEMPERATURE AND STRUCTURE OF A VERY HOT CLUSTER	Proposal title
observer	Van Speybroeck Murray	Principal investigator
object	1E 0657-56	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	104.657917	Observer's specified target RA [deg]
dec_targ	-55.95	Observer's specified target Dec [deg]
ra_nom	104.75130842957	Nominal RA [deg]
dec_nom	-55.903873886023	Nominal Dec [deg]
roll_nom	80.286064511807	Nominal Roll [deg]
revision	3	Processing version of data
ontime	26121.436113626	Sum of GTIs [s]
livetime	25790.670761115	Livetime [s]
ontime0	26124.677073866	Sum of GTIs [s]
ontime1	26124.677093774	Sum of GTIs [s]
ontime2	26124.677073866	Sum of GTIs [s]
ontime3	26121.436113626	Sum of GTIs [s]
ontime6	26124.677073866	Sum of GTIs [s]
ontime7	26124.677073866	Sum of GTIs [s]
l2events	253180	Number of level 2 events



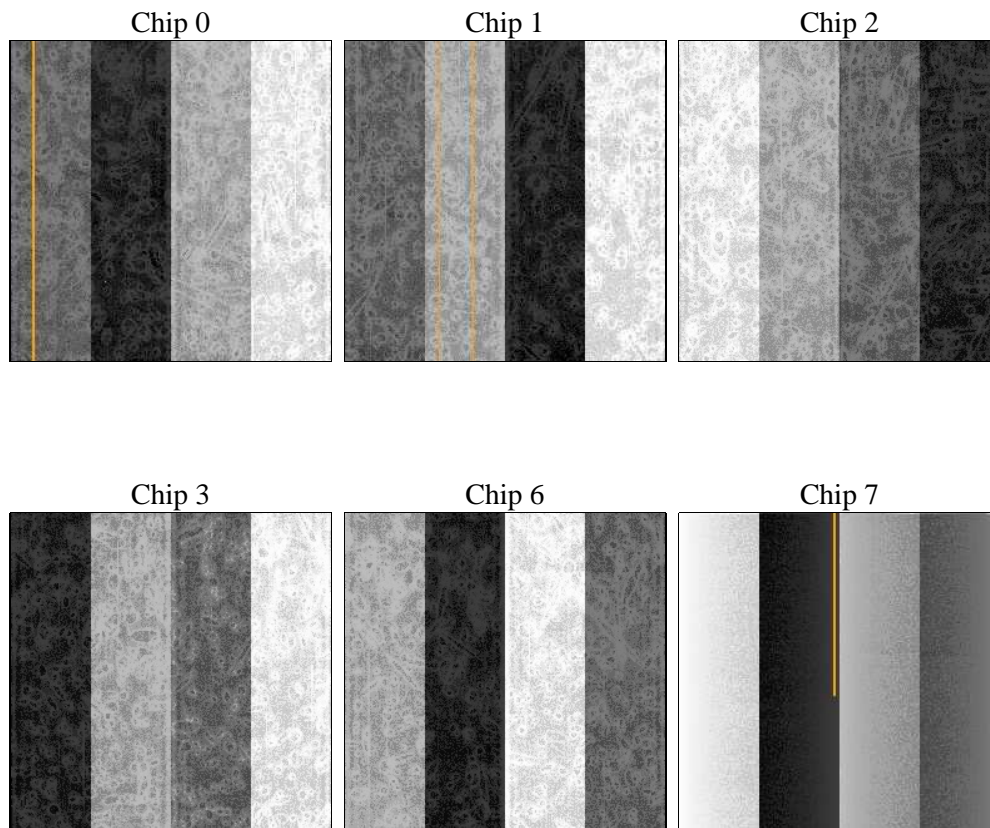
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	26121.436113626	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime0	26124.677073866	Sum of GTIs [s]
date	2012-09-02T10:08:29	Date and time of file creation	ontime1	26124.677093774	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	26124.677073866	Sum of GTIs [s]
			ontime3	26121.436113626	Sum of GTIs [s]
			ontime6	26124.677073866	Sum of GTIs [s]
			ontime7	26124.677073866	Sum of GTIs [s]
			l1events	1219849	Number of level 1 events

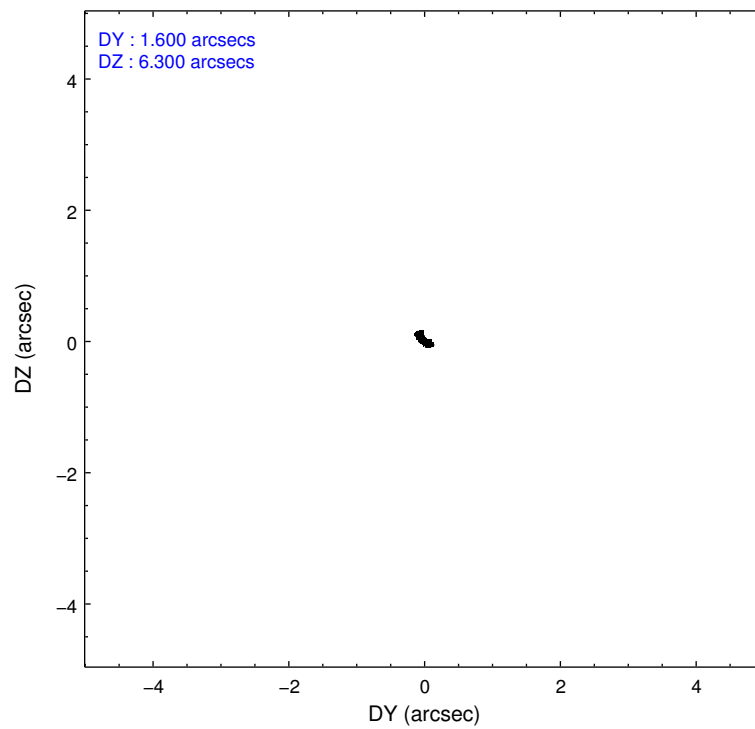
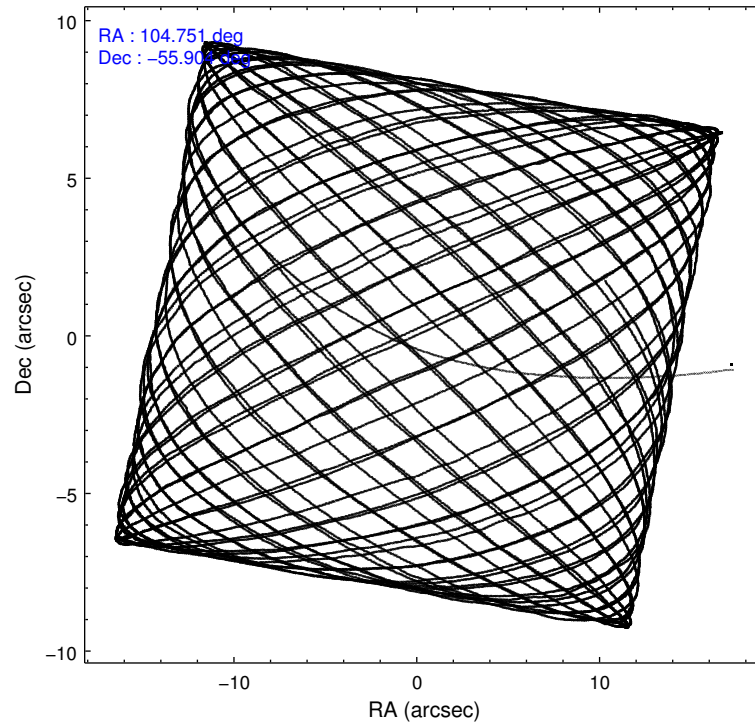
### 2.1.4 Events

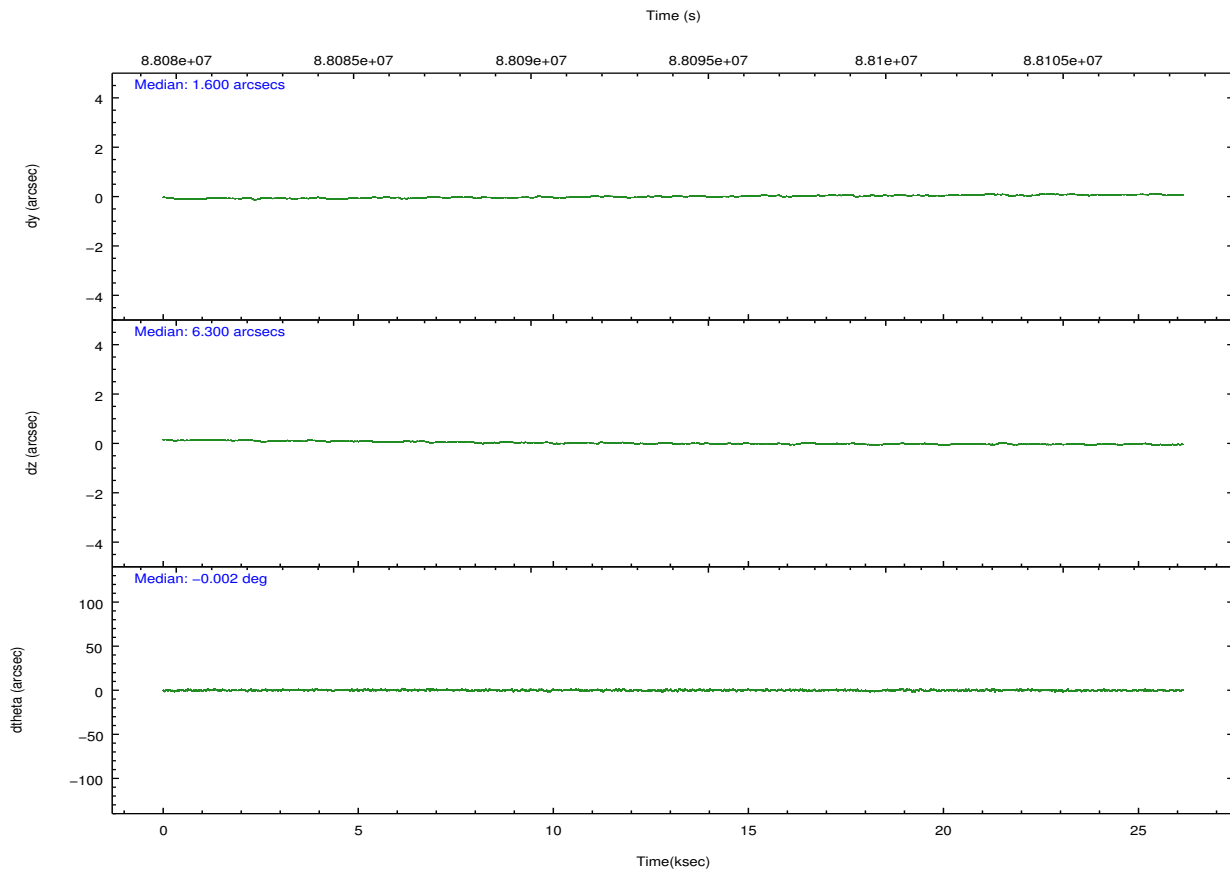
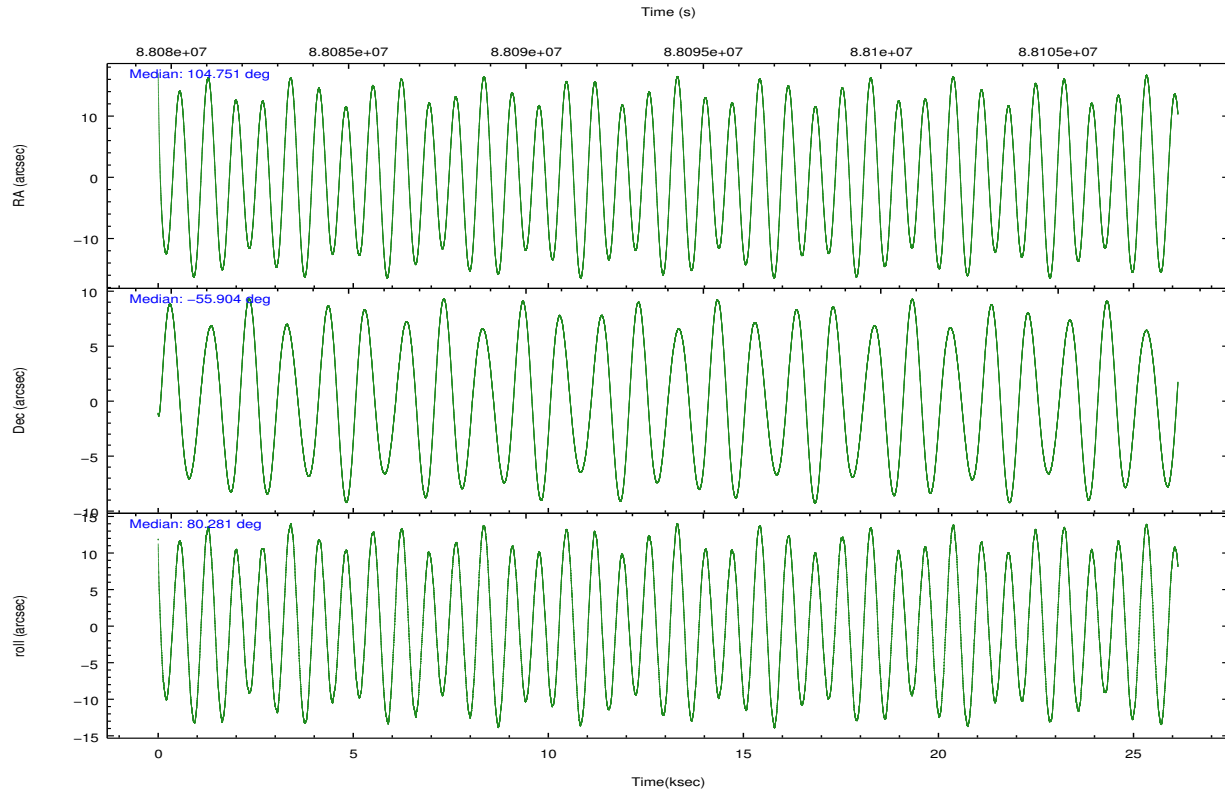
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	175063	171704	194915	230555	201553	246059	grade 0 events	12284	11080	11543	42193	12123	13391
rejected events	150791	148024	171854	170189	176999	127030		7%	6%	5%	18%	6%	5%
rejected %	86%	86%	88%	73%	87%	51%	grade 1 events	105	77	108	223	178	196
								0%	0%	0%	0%	0%	0%
							grade 2 events	4922	4588	4822	8218	4824	24184
								2%	2%	2%	3%	2%	9%
							grade 3 events	2233	2288	1961	3202	2161	10916
								1%	1%	1%	1%	1%	4%
							grade 4 events	1947	2310	1974	3164	2061	10936
								1%	1%	1%	1%	1%	4%
							grade 5 events	5775	6093	5570	6287	7011	20681
								3%	3%	2%	2%	3%	8%
							grade 6 events	3600	4070	3435	4493	4041	62335
								2%	2%	1%	1%	2%	25%
							grade 7 events	144197	141198	165502	162775	169154	103420
								82%	82%	84%	70%	83%	42%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	104.768215	104.7513084295709	Subarray requested	NONE	NONE
[deg] Pointing Dec	-55.929701	-55.90387388602294	Alternating exposures requested	N	N
[deg] Pointing Roll	80.091384	80.28606451180707	[s] Primary exposure time	0.000000	3.2
[deg] Roll angle	90.000000	90.000000			
[deg] Roll tolerance	10.000000	10.000000			
Roll constraint allows 180D rotation	N	N			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	88081075.184000	88079672.136932			
Observation start date	2000-10-16T10:56:51	2000-10-16T10:34:32			
[s] Observation end time (MET)	88107075.184000	88107659.25048999			
Observation end date	2000-10-16T18:10:11	2000-10-16T18:20:59			
Read mode	TIMED	TIMED			

## 2.3 Aspect



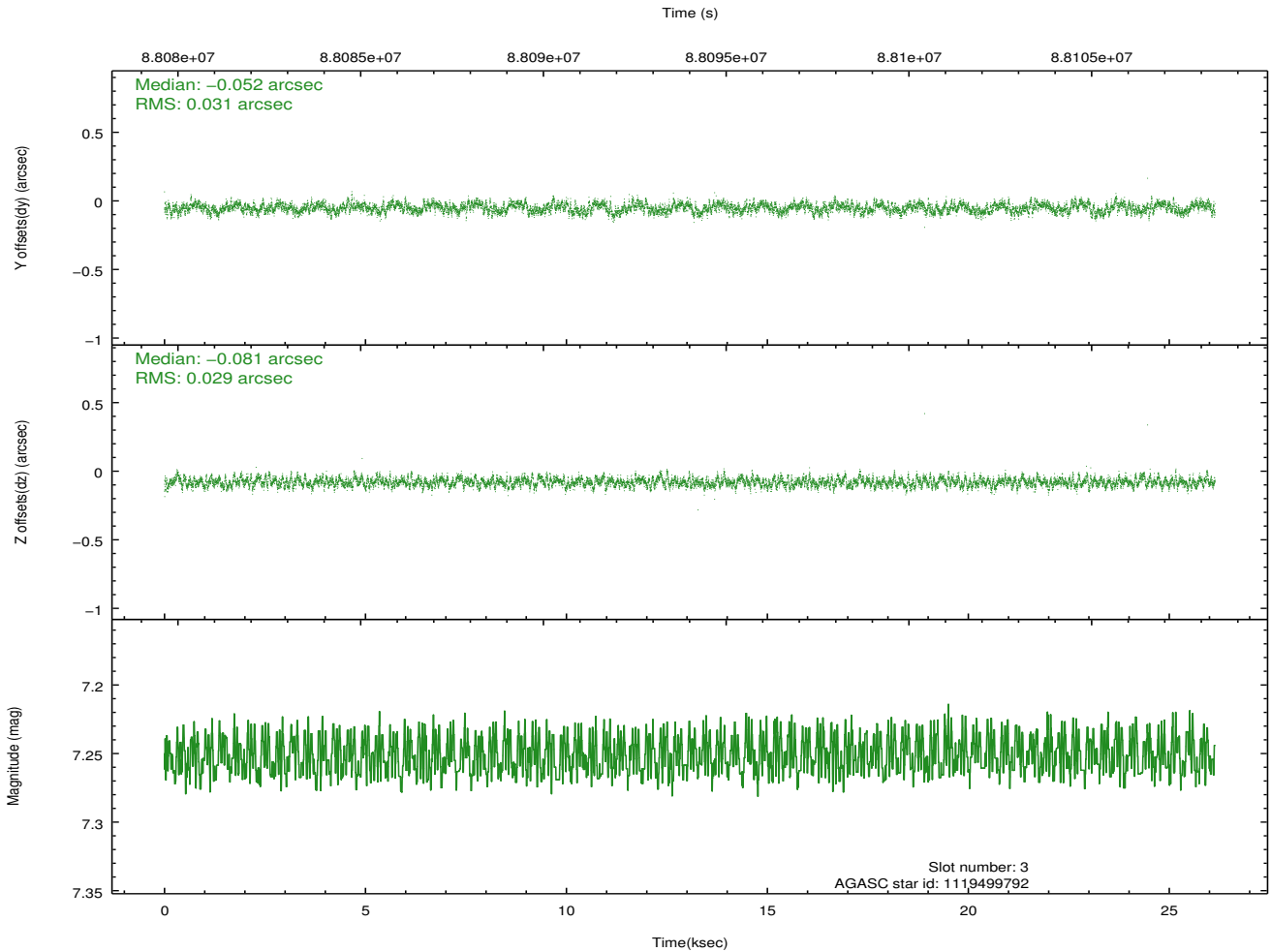
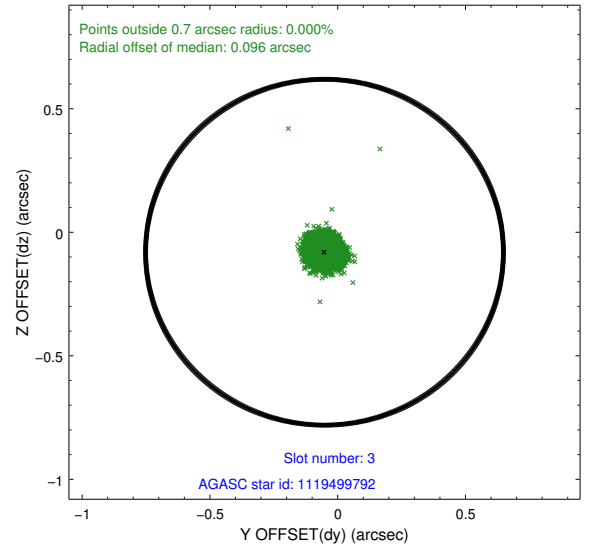
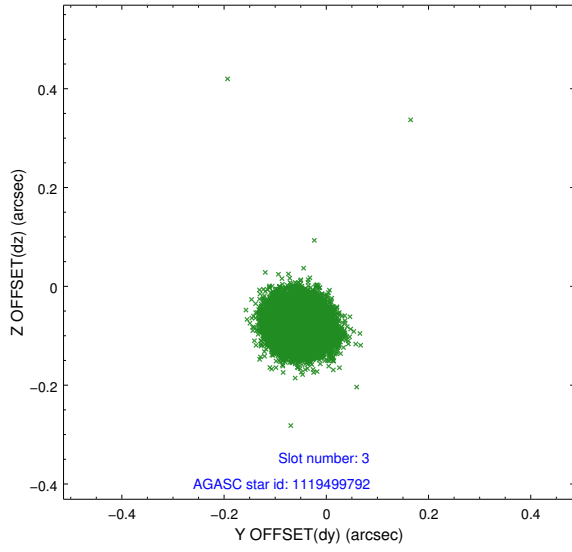


### Slot Statistics

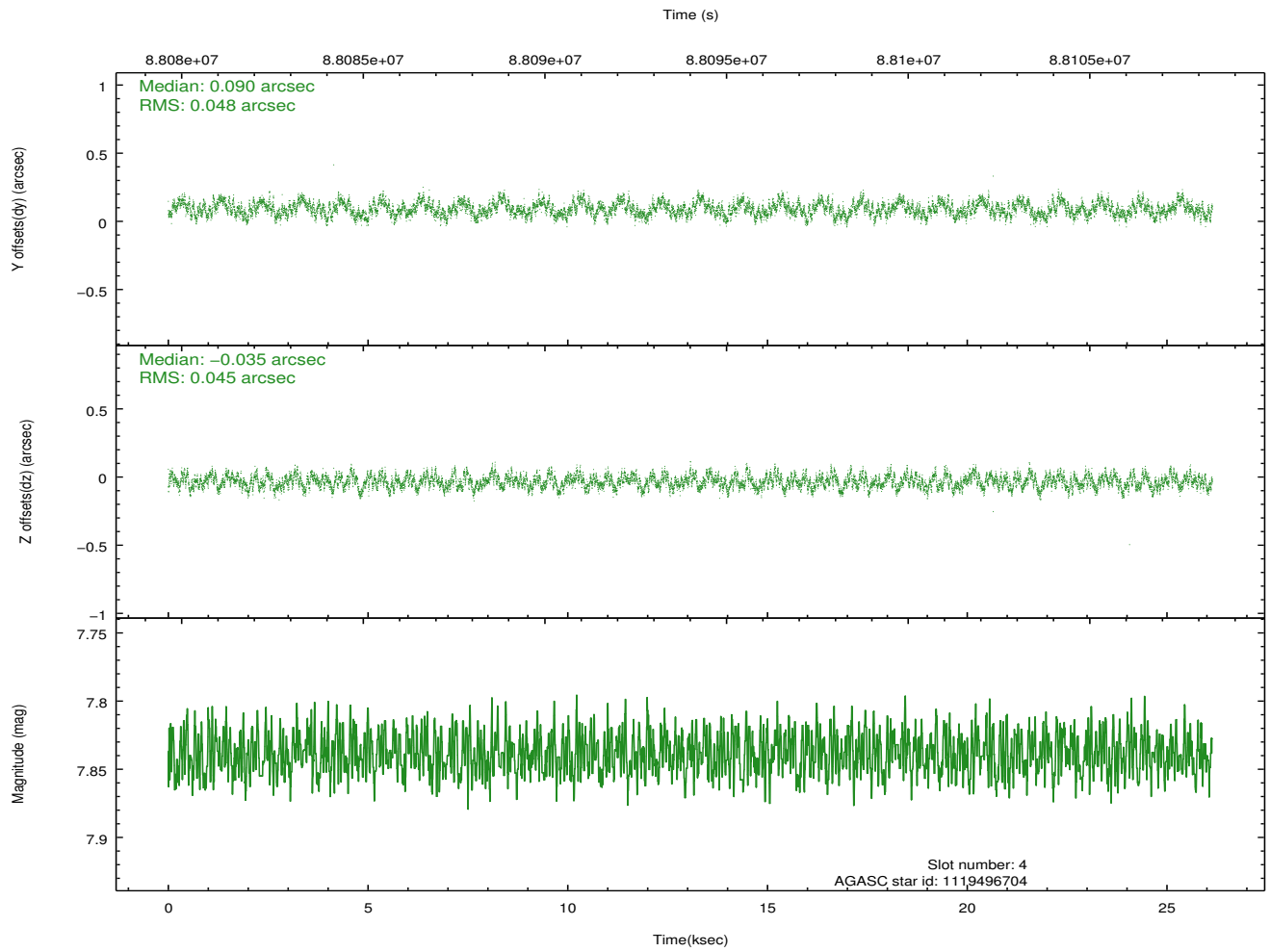
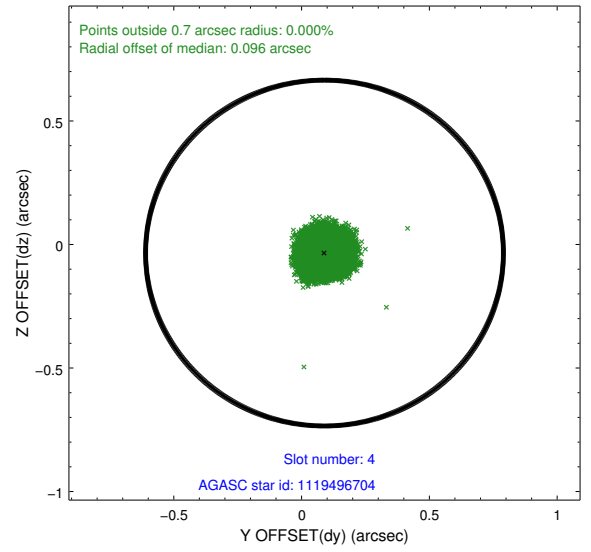
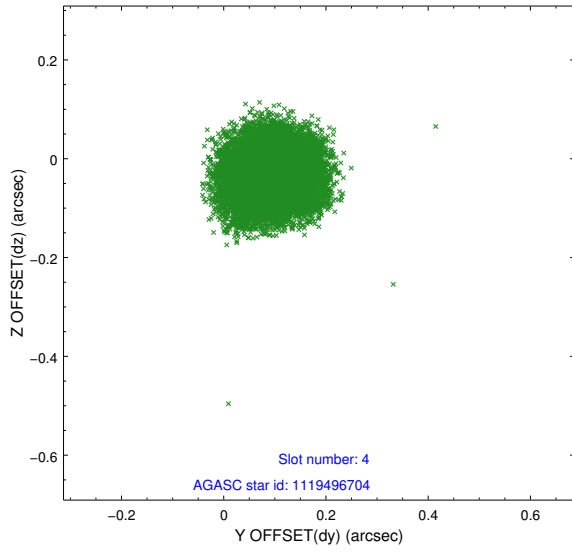
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.16	6373	-0.043	-0.063	0.009	0.016	0.000000	0.000000	-755.98	-836.12
1	FID	ACIS-I-4	7.18	6372	-0.039	0.049	0.006	0.011	0.000000	0.000000	2158.03	1070.12
2	FID	ACIS-I-5	7.23	6372	-0.019	0.083	0.009	0.015	0.000000	0.000000	-1809.65	1068.11
3	GUIDE	1119499792	7.25	12740	-0.052	-0.081	0.046	0.071	104.350048	-56.101305	-755.76	720.56
4	GUIDE	1119496704	7.84	12741	0.090	-0.035	0.072	0.109	104.368364	-55.667750	786.76	962.04
5	GUIDE	1120027376	7.84	12746	-0.027	0.029	0.053	0.086	105.445282	-56.621416	-2228.75	-1750.46
6	GUIDE	1119502352	8.10	12743	-0.038	0.097	0.054	0.089	105.547994	-55.440239	2000.76	-1266.55
7	GUIDE	1119495496	8.29	12741	0.026	-0.006	0.057	0.092	104.298364	-55.915101	-114.55	942.50

## 2.4 Star Slots

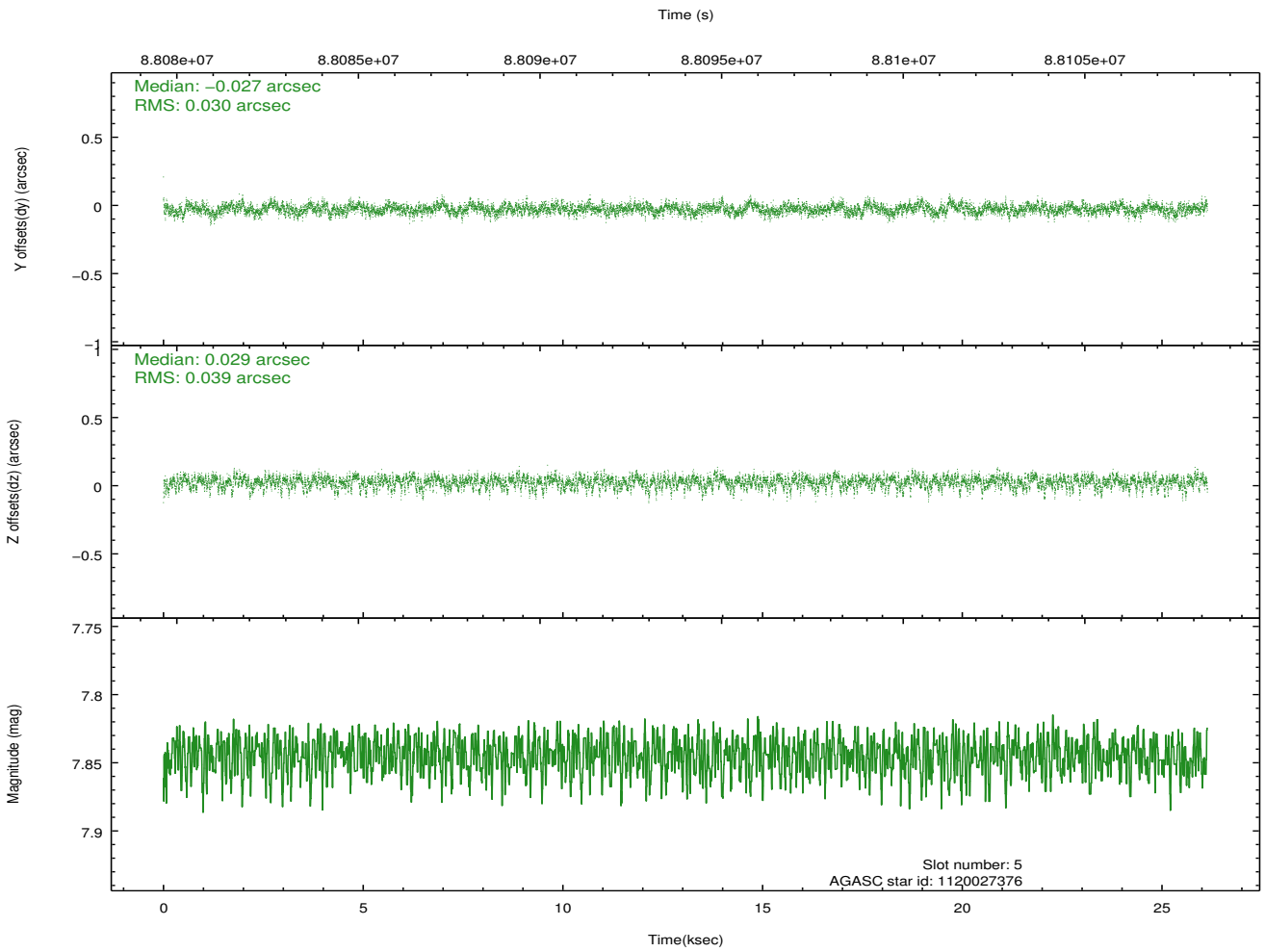
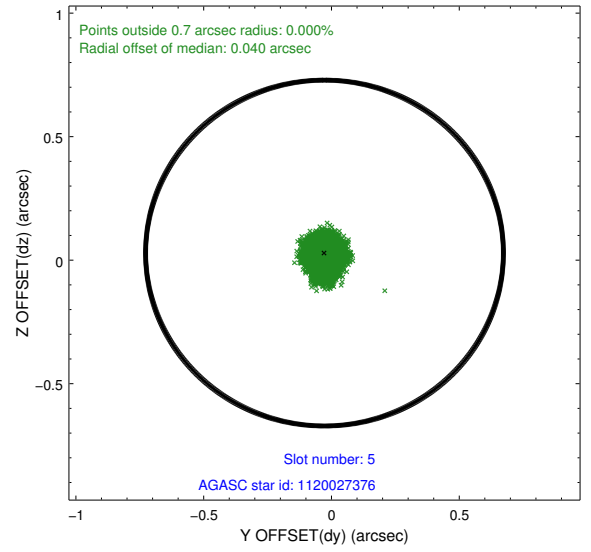
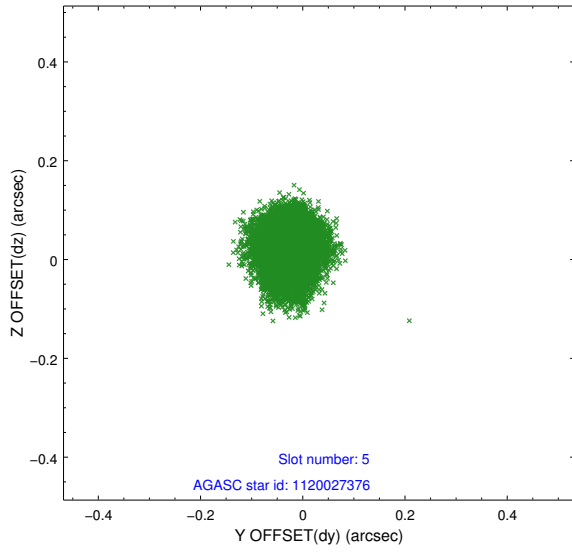
### 2.4.1 Slot 3



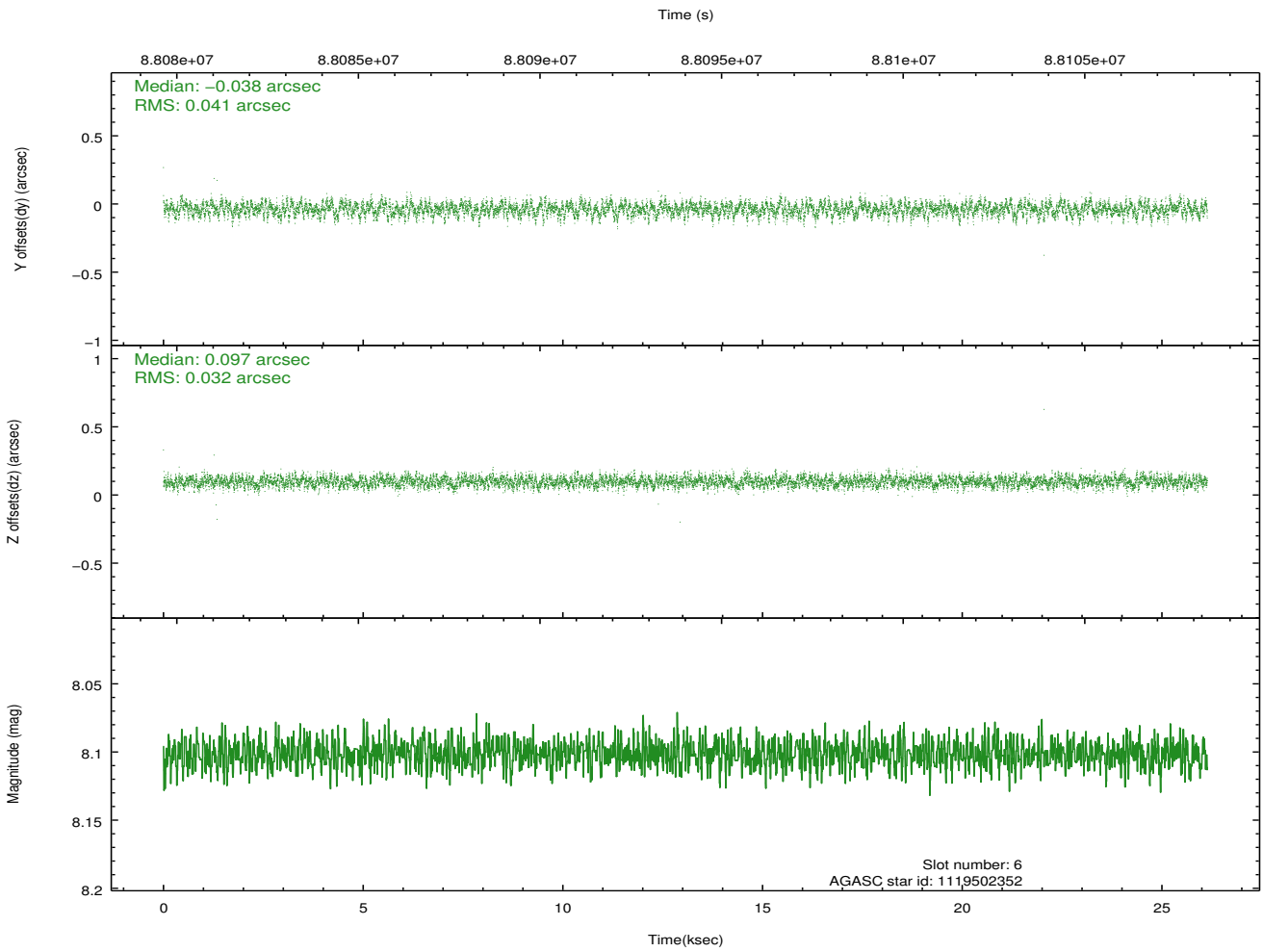
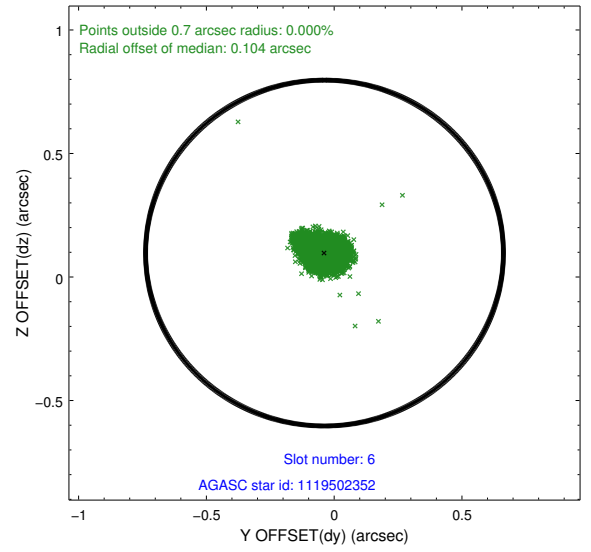
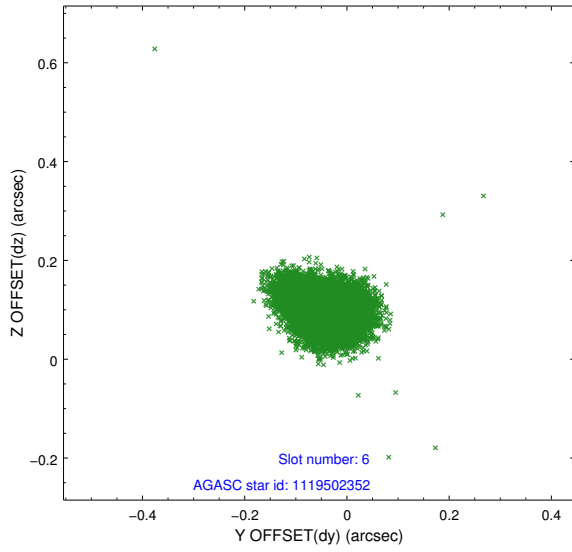
## 2.4.2 Slot 4



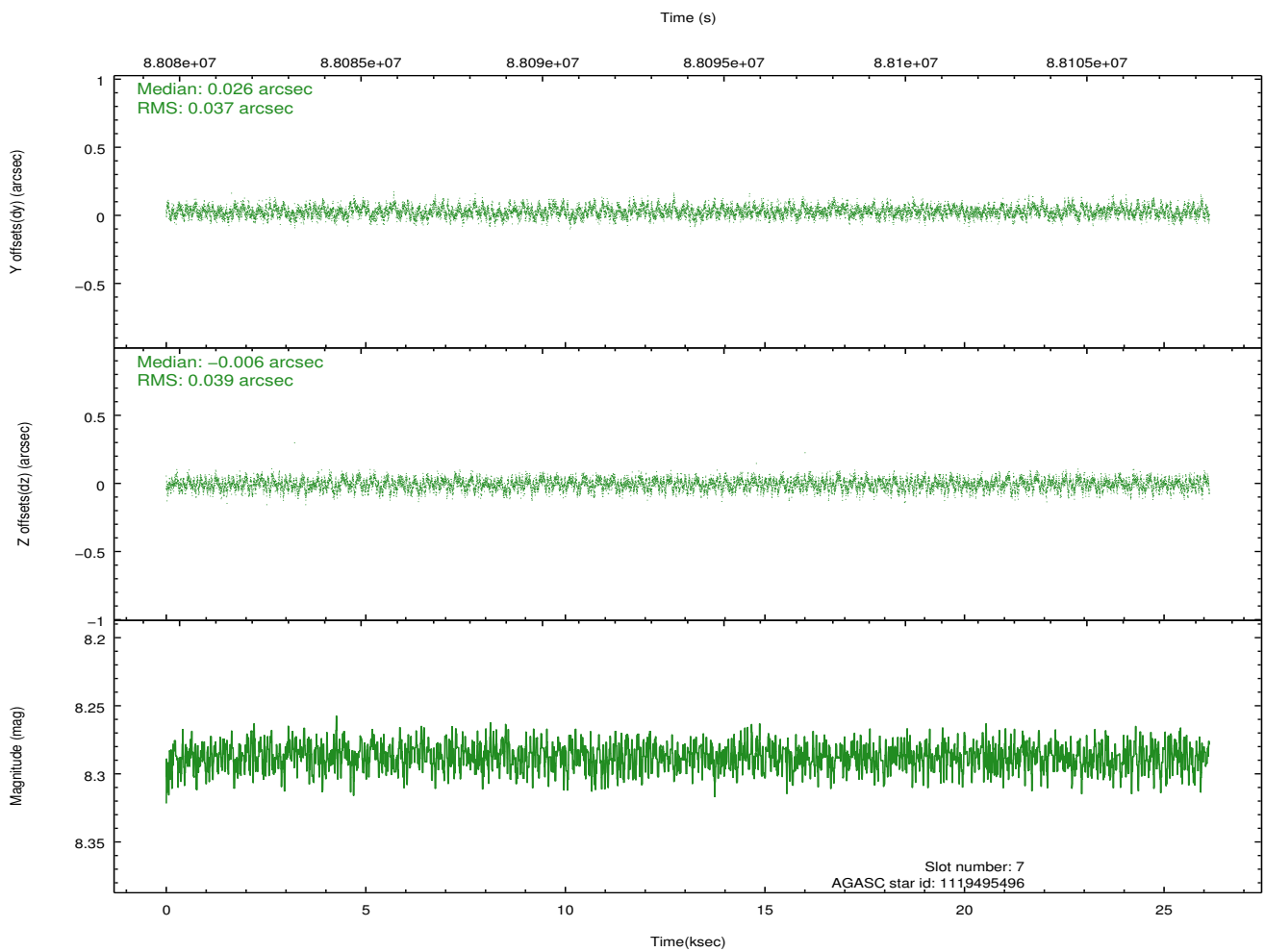
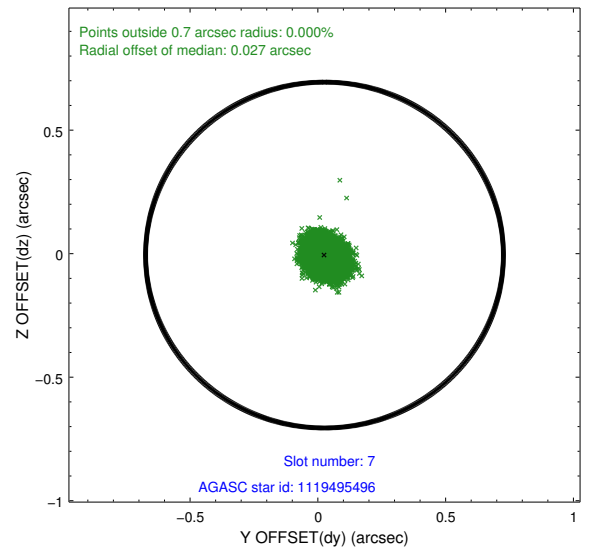
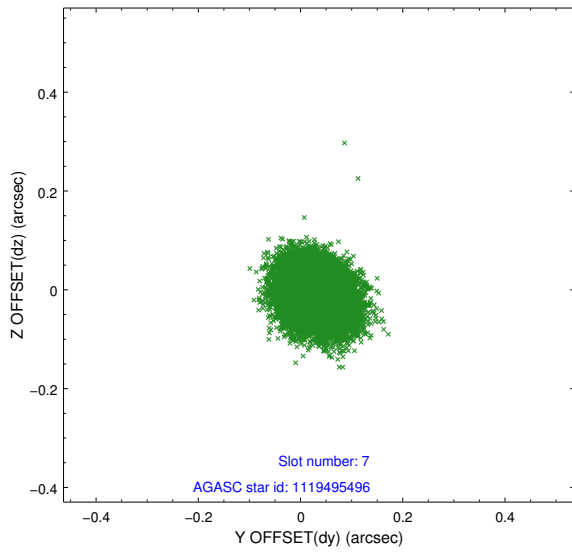
### 2.4.3 Slot 5



## 2.4.4 Slot 6

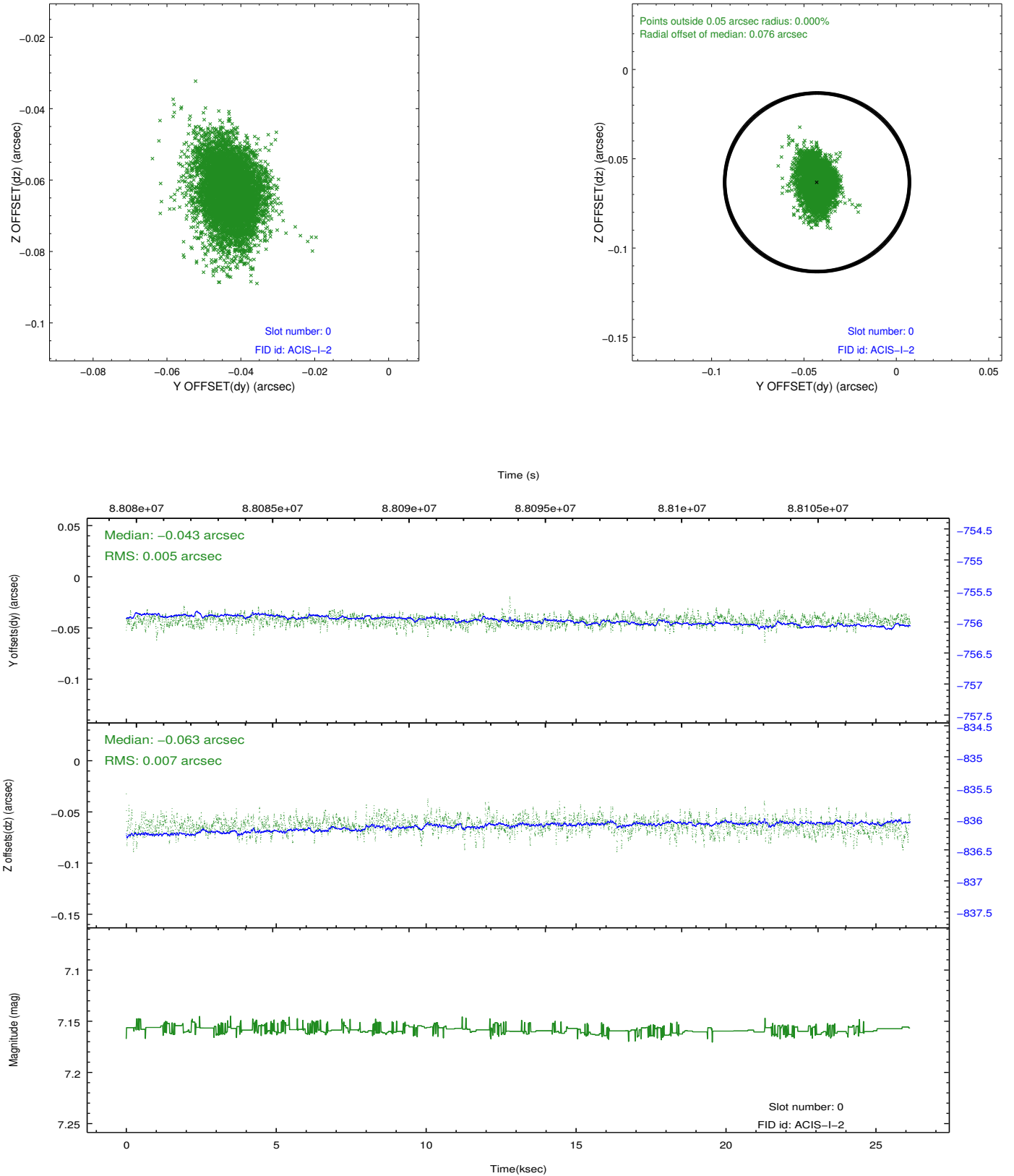


## 2.4.5 Slot 7

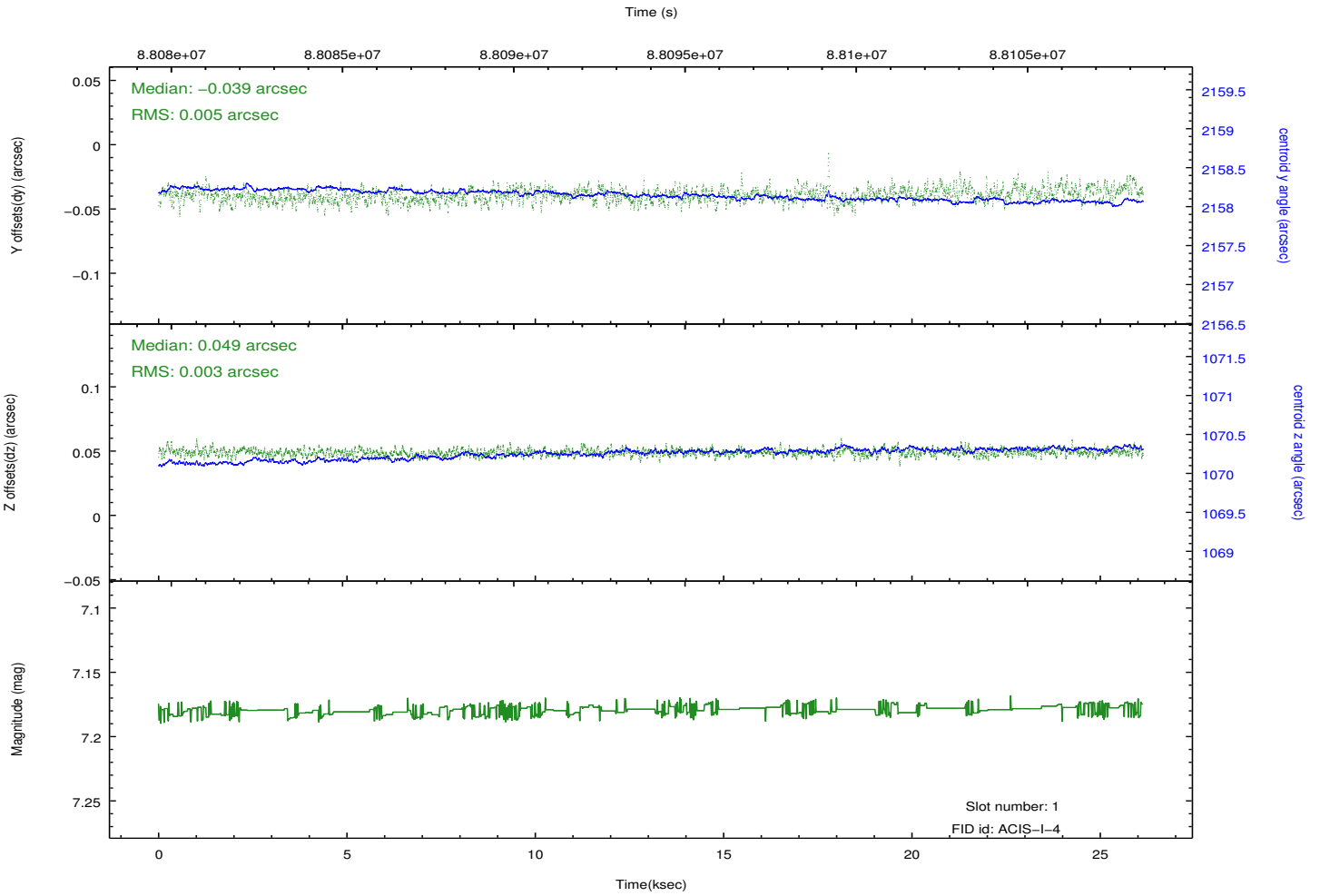
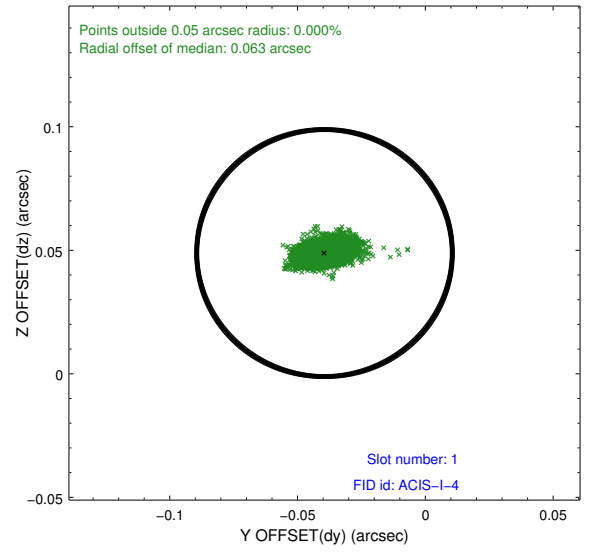
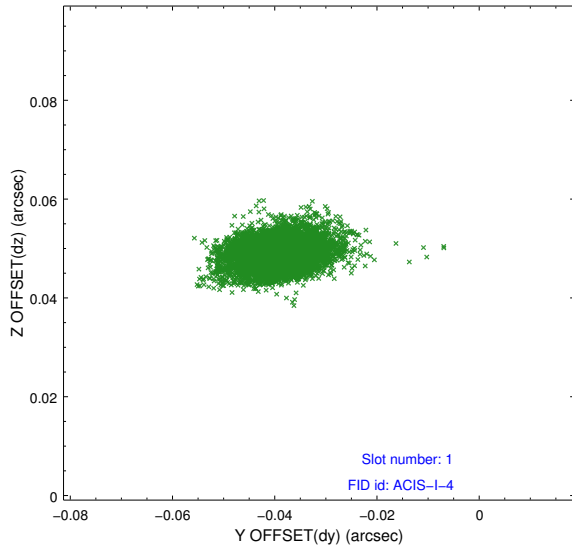


## 2.5 FID Slots

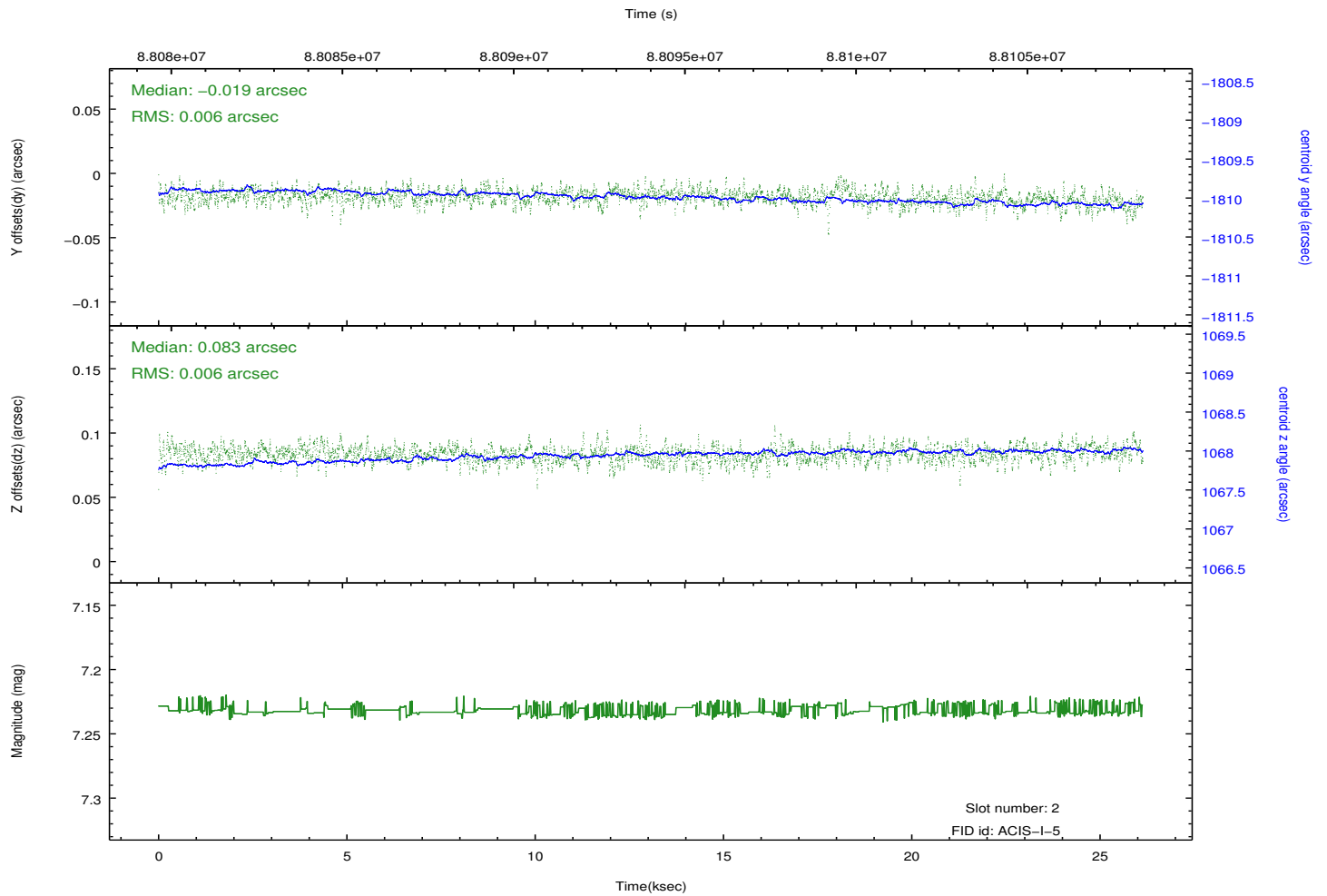
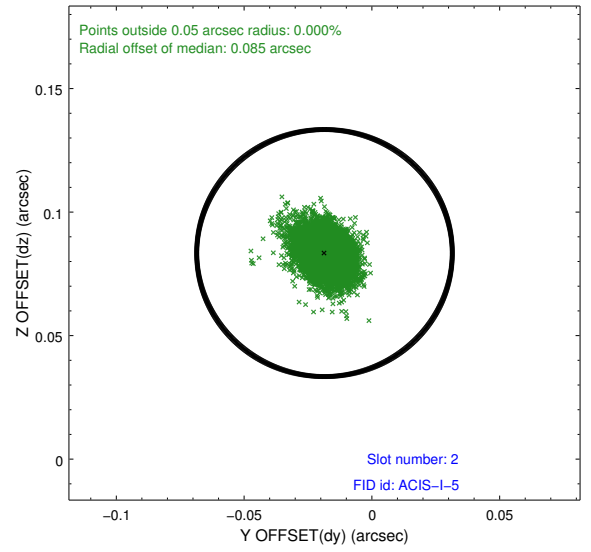
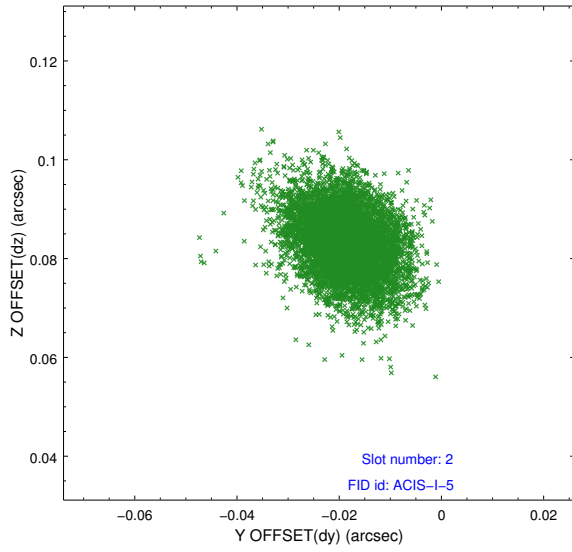
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.121

## A.2 Comments

Roll constraint met.