

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 6751 - L2 Version 2  
Chandra X-Ray Center

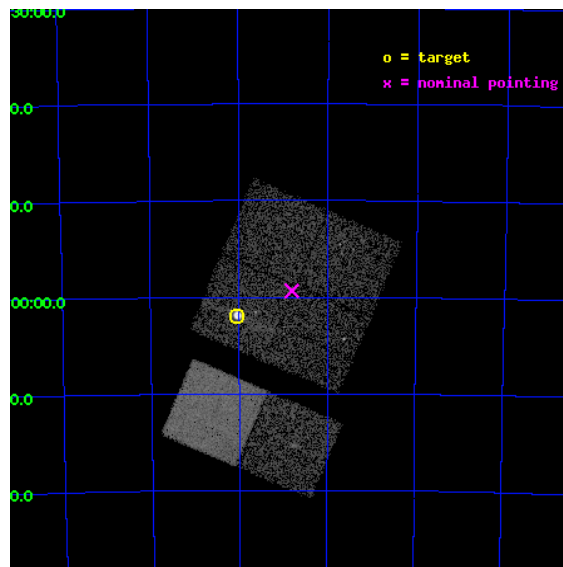
L2 Processing Date : Mar 28 2012

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# 1 Front

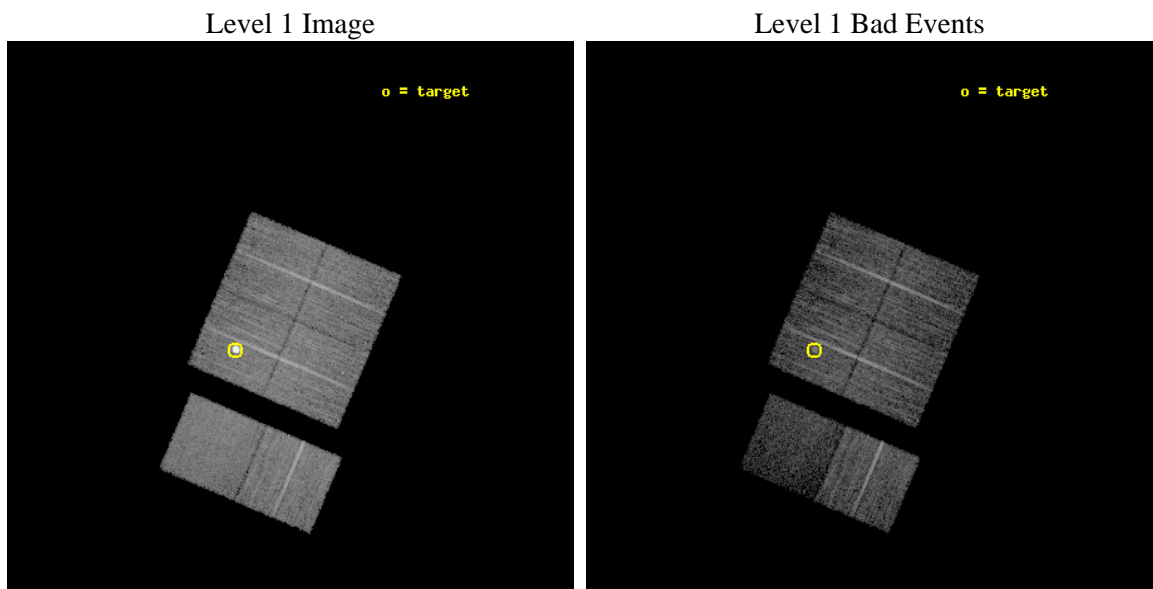
seq_num	590434	Sequence number
obs_id	6751	Observation id
title	AO7 ACIS-I Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[I3,-120,-4.0,4.5,0]	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.701517182231	Nominal RA [deg]
dec_nom	-71.989071542501	Nominal Dec [deg]
roll_nom	203.06098755072	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7254.3999729753	Sum of GTIs [s]
livetime	7162.5403924422	Livetime [s]
ontime0	7254.318936348	Sum of GTIs [s]
ontime1	7254.3599763215	Sum of GTIs [s]
ontime2	7254.3999729753	Sum of GTIs [s]
ontime3	7254.3999729753	Sum of GTIs [s]
ontime6	7254.3999729753	Sum of GTIs [s]
ontime7	7254.3999729753	Sum of GTIs [s]
l2events	63128	Number of level 2 events



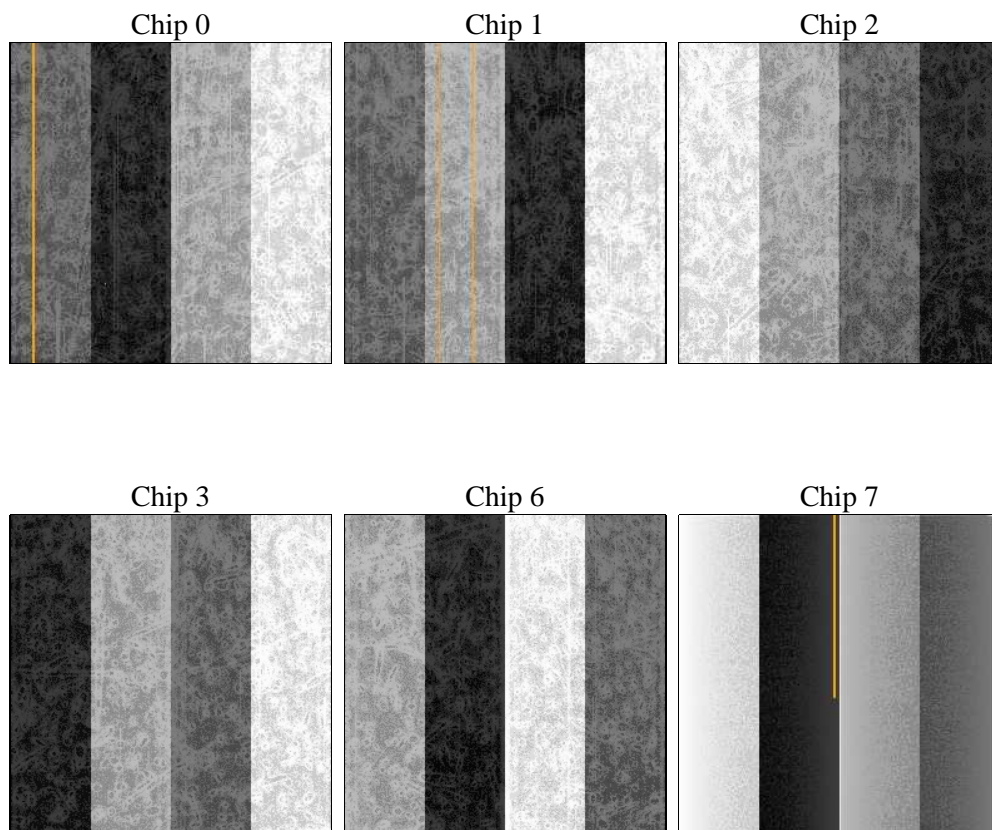
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	7254.3999729753	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	7254.318936348	Sum of GTIs [s]
date	2012-03-28T03:14:26	Date and time of file creation	ontime1	7254.3599763215	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	7254.3999729753	Sum of GTIs [s]
			ontime3	7254.3999729753	Sum of GTIs [s]
			ontime6	7254.3999729753	Sum of GTIs [s]
			ontime7	7254.3999729753	Sum of GTIs [s]
			l1events	315258	Number of level 1 events

### 2.1.4 Events

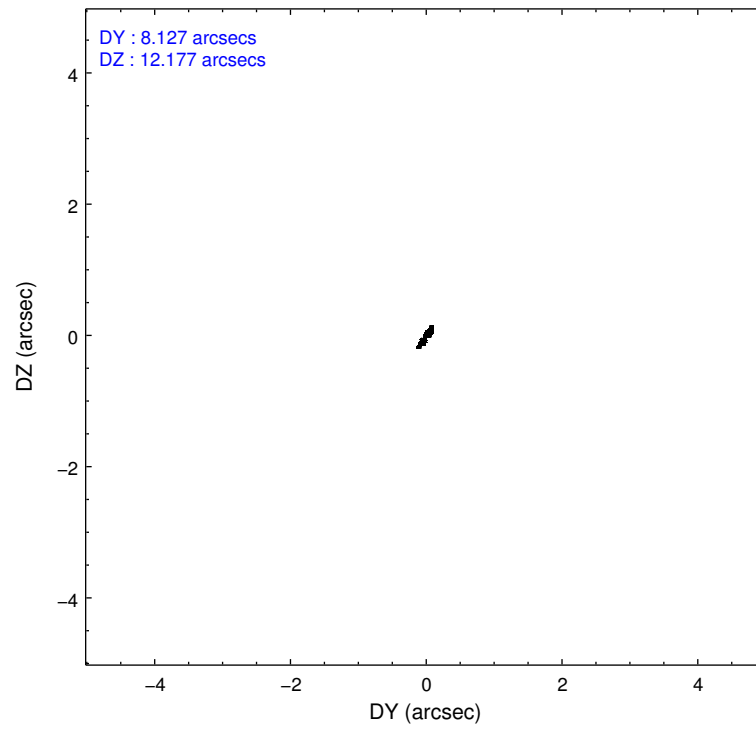
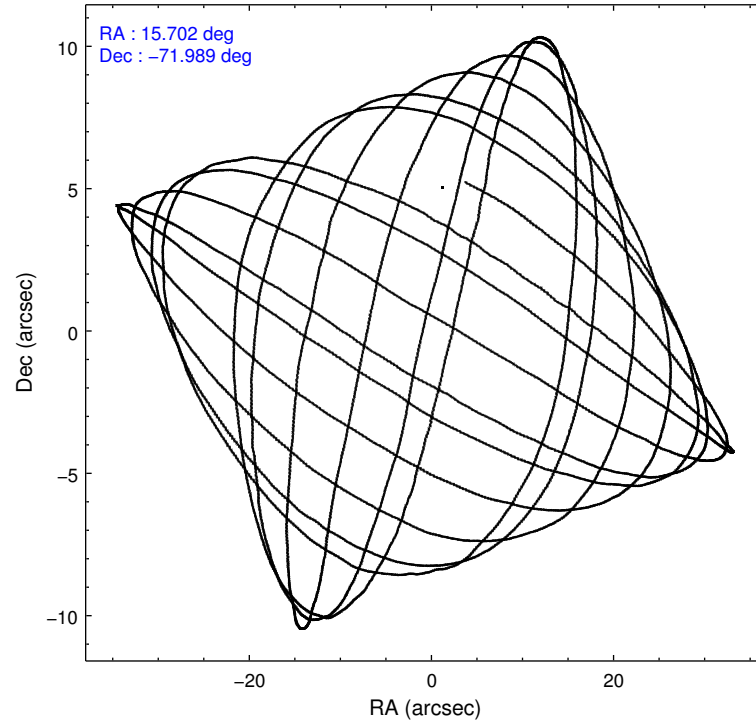
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	45725	46297	54116	71507	51313	46300	grade 0 events	1867	1874	1926	19826	1963	2322
rejected events	40816	41268	49182	46484	46097	23137		4%	4%	3%	27%	3%	5%
rejected %	89%	89%	90%	65%	89%	49%	grade 1 events	16	25	21	180	33	45
								0%	0%	0%	0%	0%	0%
							grade 2 events	1200	1067	1200	2445	1162	4932
								2%	2%	2%	3%	2%	10%
							grade 3 events	534	541	491	873	558	2352
								1%	1%	0%	1%	1%	5%
							grade 4 events	492	568	526	872	569	2318
								1%	1%	0%	1%	1%	5%
							grade 5 events	1312	1624	1252	1638	1662	5126
								2%	3%	2%	2%	3%	11%
							grade 6 events	821	982	794	1030	969	11265
								1%	2%	1%	1%	1%	24%
							grade 7 events	39483	39616	47906	44643	44397	17940
								86%	85%	88%	62%	86%	38%

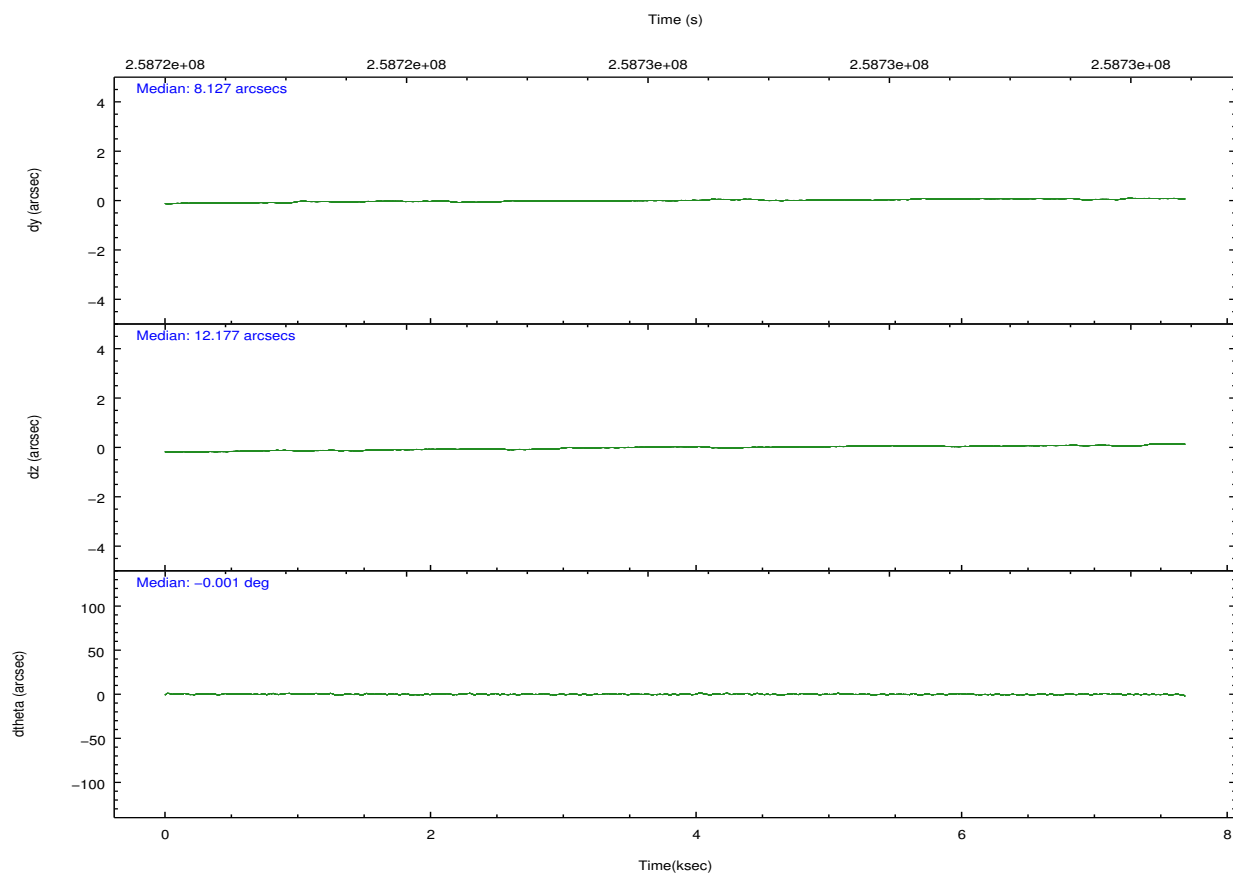
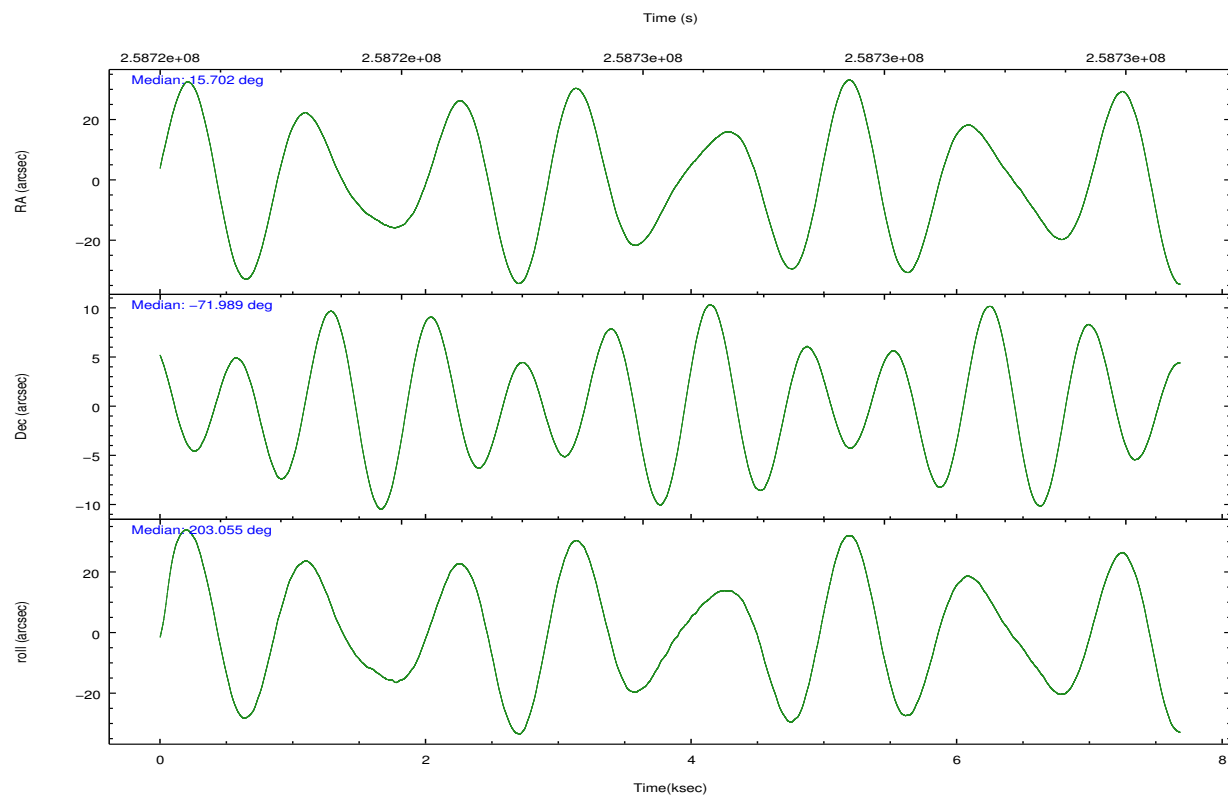


## 2.2 Compared Parameters

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	15.754267	15.70151718223124	Subarray requested	NONE	NONE
[deg] Pointing Dec	-71.967089	-71.98907154250119	Alternating exposures requested	N	N
[deg] Pointing Roll	202.902467	203.060987550724	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	247190464.184000	247190464.184000			
[s] Window stop time (MET)	260150465.184000	260150465.184000			
[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)	258722566.184000	258722189.84407			
Observation start date	2006-03-14T11:21:41	2006-03-14T11:16:29			
[s] Observation end time (MET)	258730066.184000	258730199.70694			
Observation end date	2006-03-14T13:26:41	2006-03-14T13:29:59			
Read mode	TIMED	TIMED			

## 2.3 Aspect



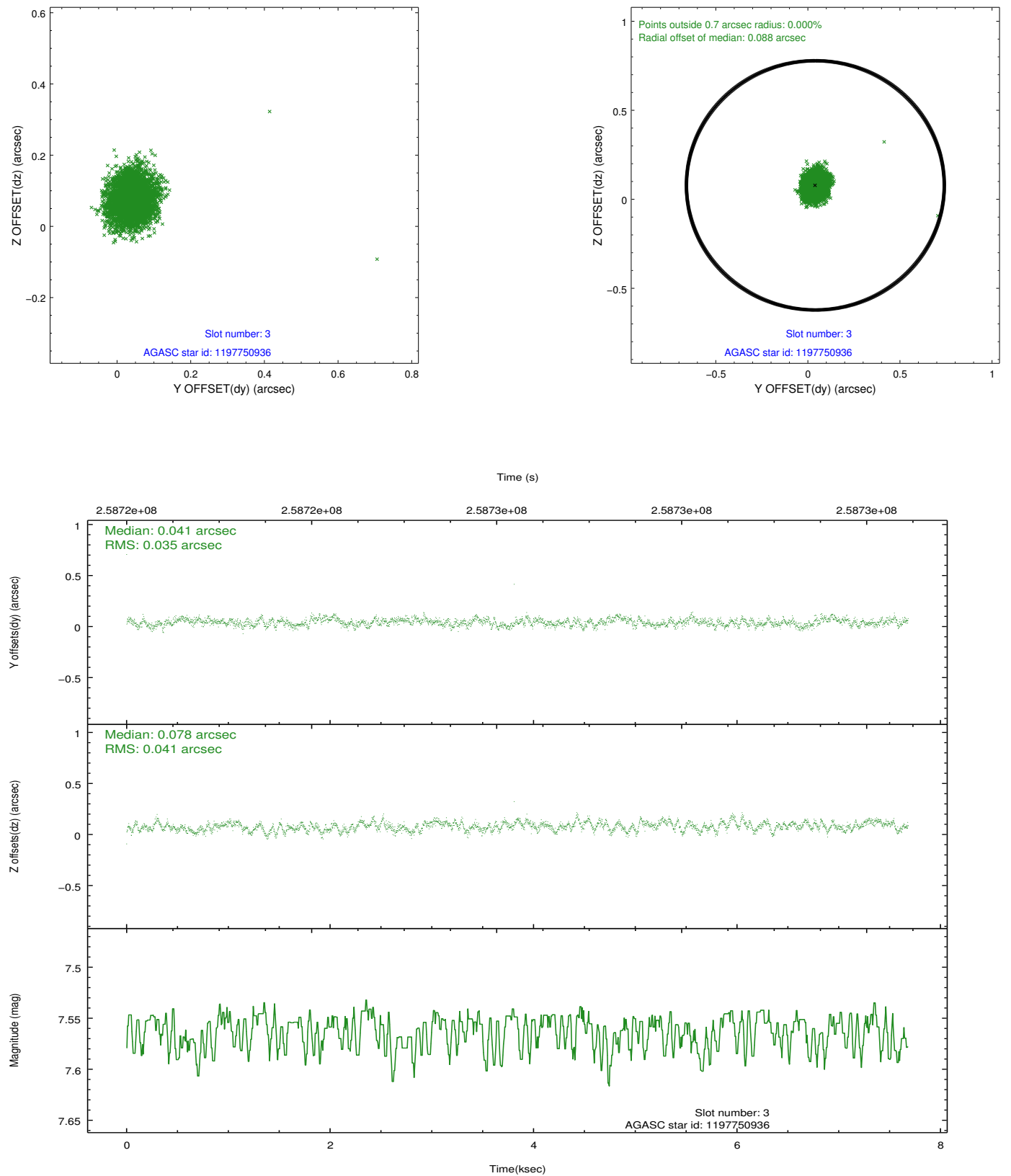


### Slot Statistics

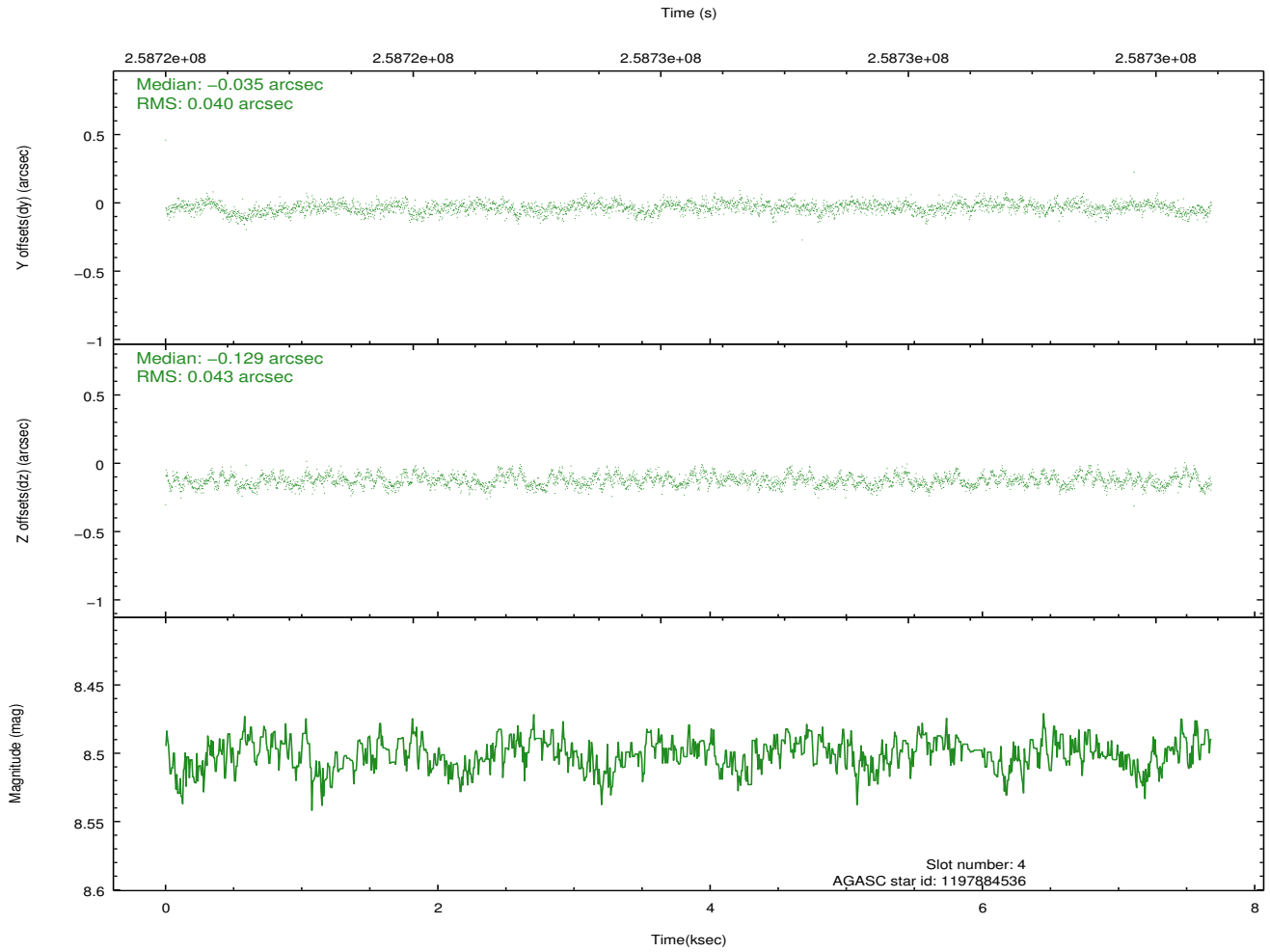
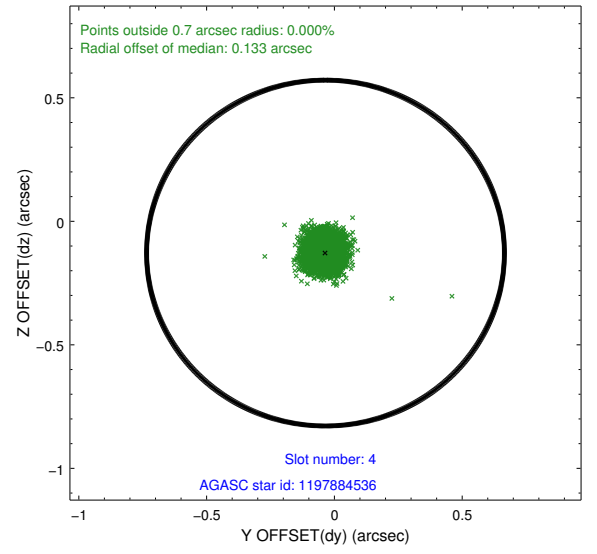
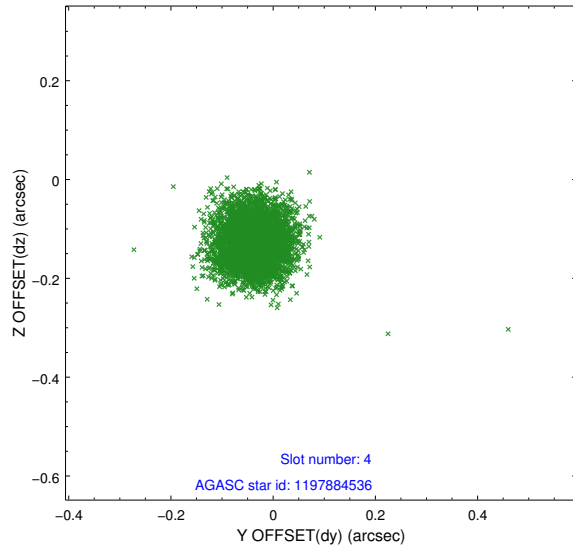
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1874	0.055	-0.011	0.014	0.025	0.000000	0.000000	931.56	-835.72
1	FID	ACIS-I-5	7.22	1874	-0.183	0.070	0.010	0.016	0.000000	0.000000	-1816.34	1061.55
2	FID	ACIS-I-6	7.25	1874	0.036	0.012	0.012	0.021	0.000000	0.000000	396.34	1706.78
3	GUIDE	1197750936	7.56	3748	0.041	0.078	0.056	0.088	15.387940	-71.549550	-199.37	-1545.38
4	GUIDE	1197884536	8.50	3747	-0.035	-0.129	0.062	0.098	17.160729	-71.835289	-1631.10	193.61
5	GUIDE	1197885104	9.37	3745	0.143	0.030	0.082	0.132	17.845067	-72.189368	-1793.12	1670.11
6	GUIDE	1197885328	7.24	3747	0.041	0.182	0.057	0.088	16.283090	-71.733943	-875.96	-537.82
7	GUIDE	1198189696	7.37	3747	-0.189	-0.163	0.056	0.091	15.223750	-72.697522	1547.29	2203.73

## 2.4 Star Slots

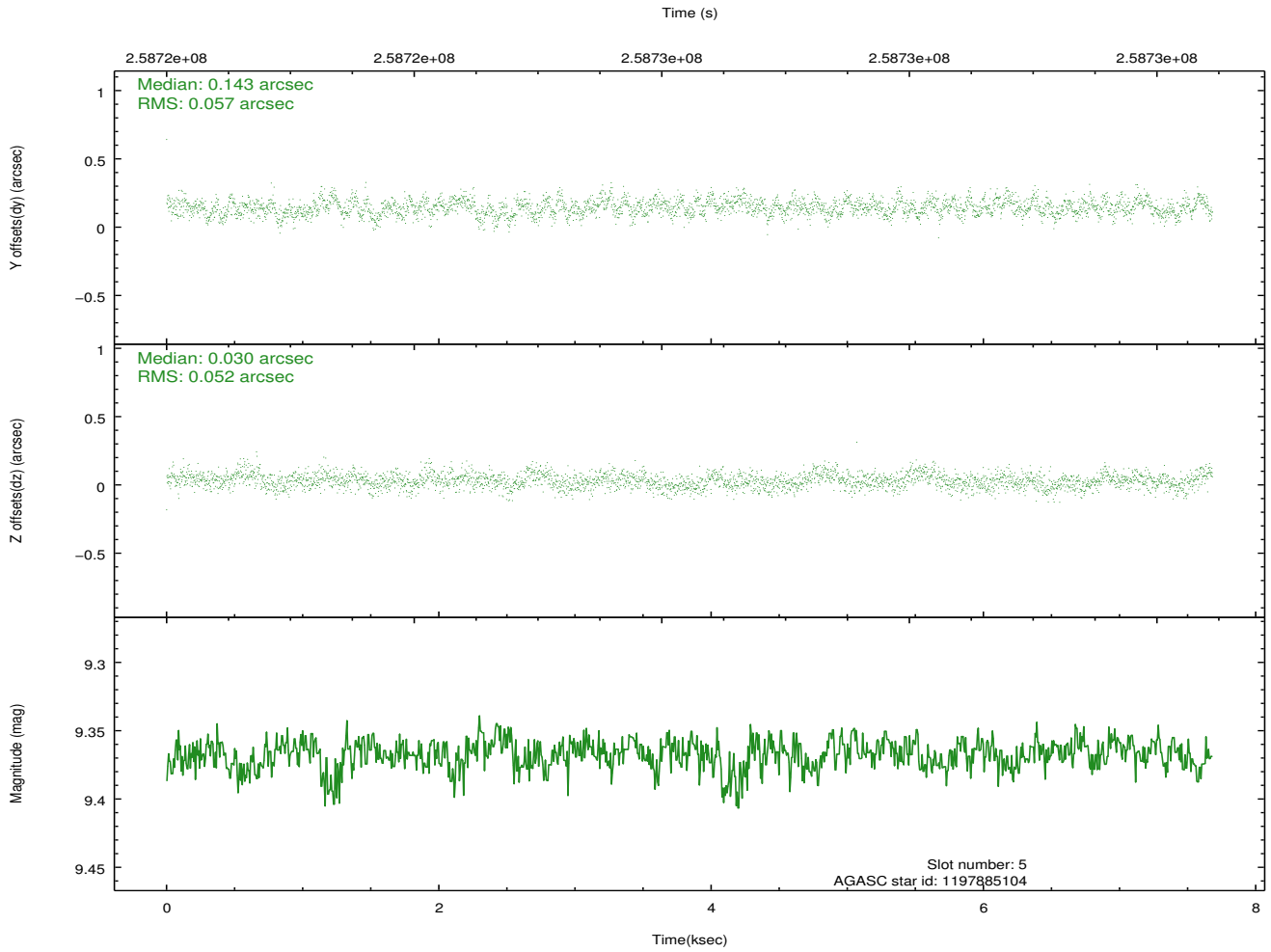
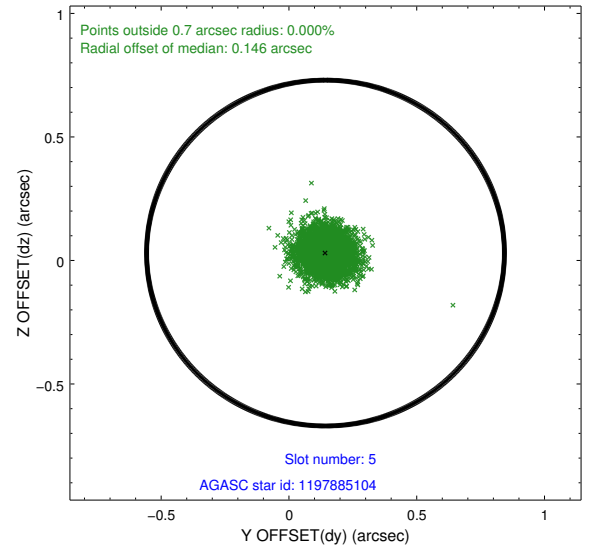
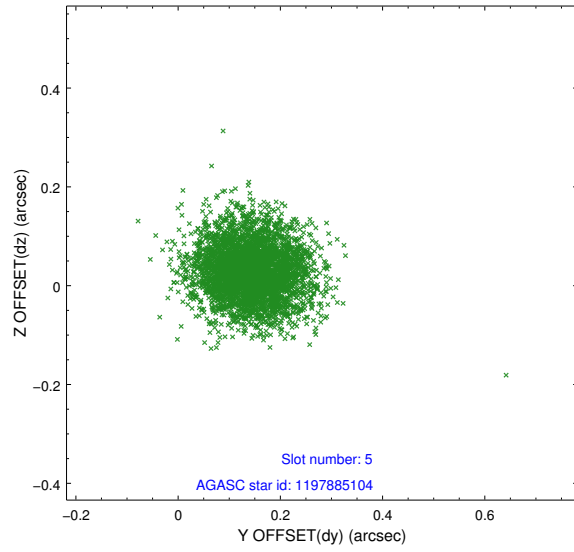
### 2.4.1 Slot 3



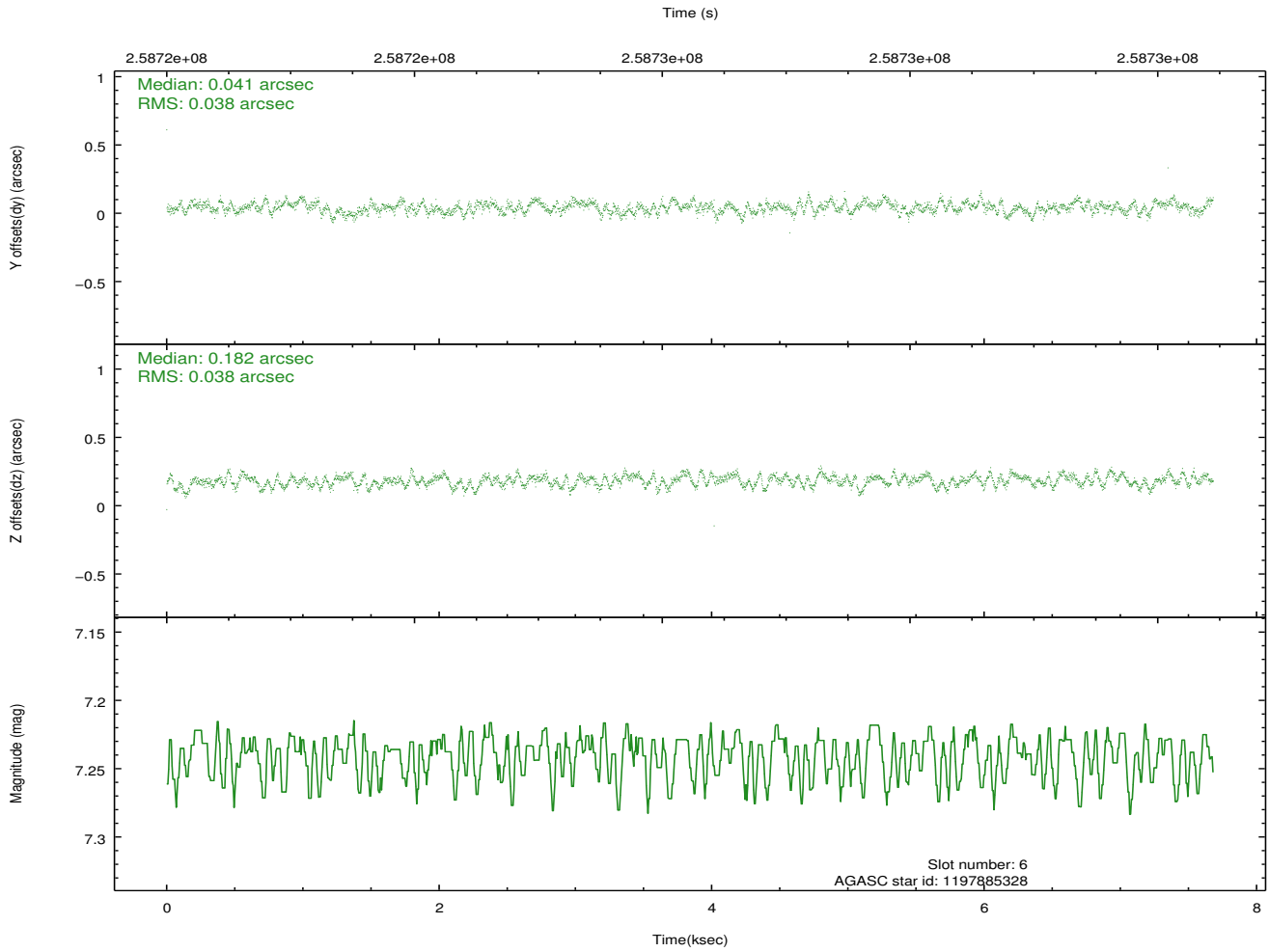
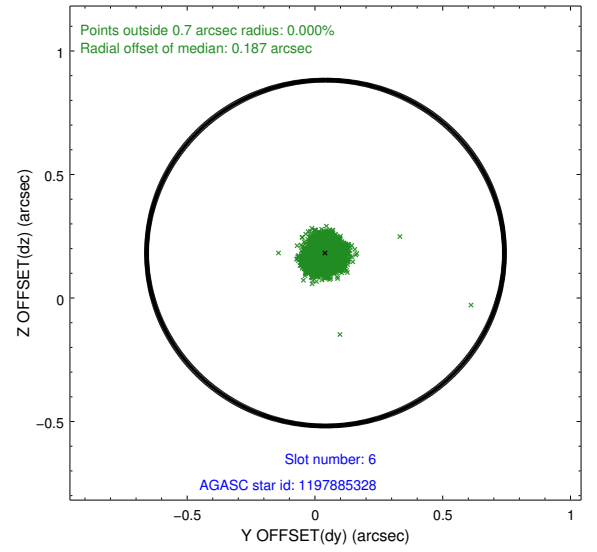
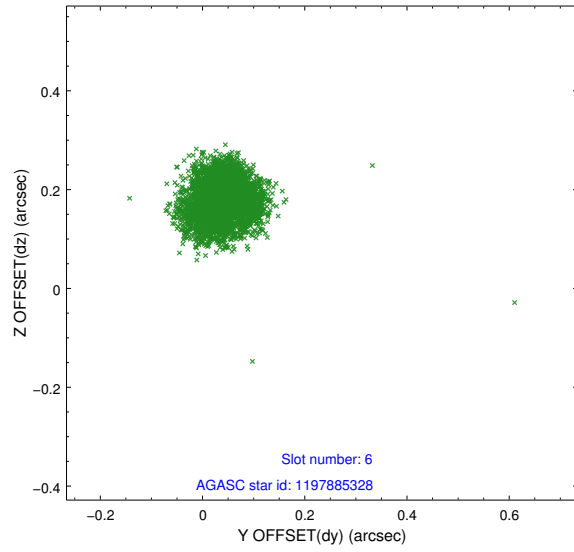
## 2.4.2 Slot 4



### 2.4.3 Slot 5

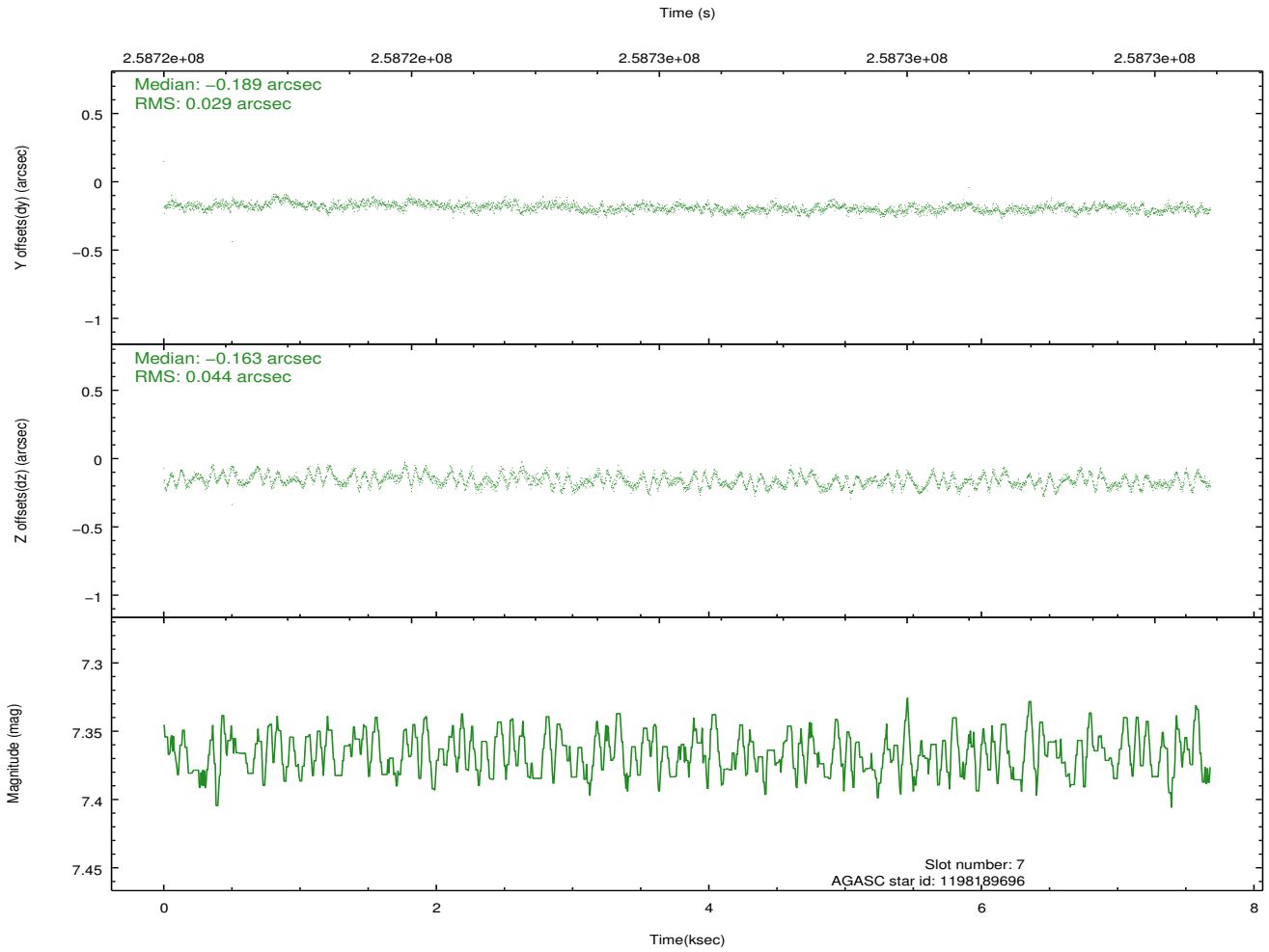
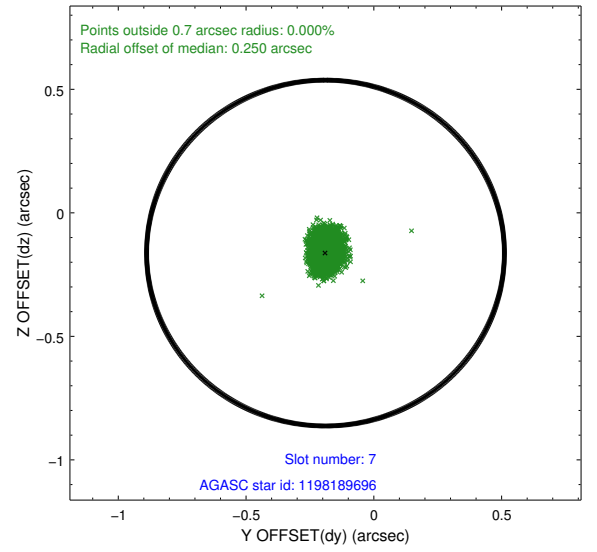
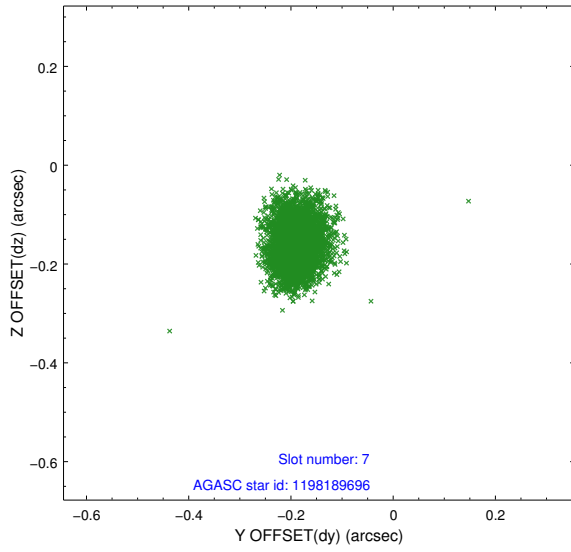


## 2.4.4 Slot 6



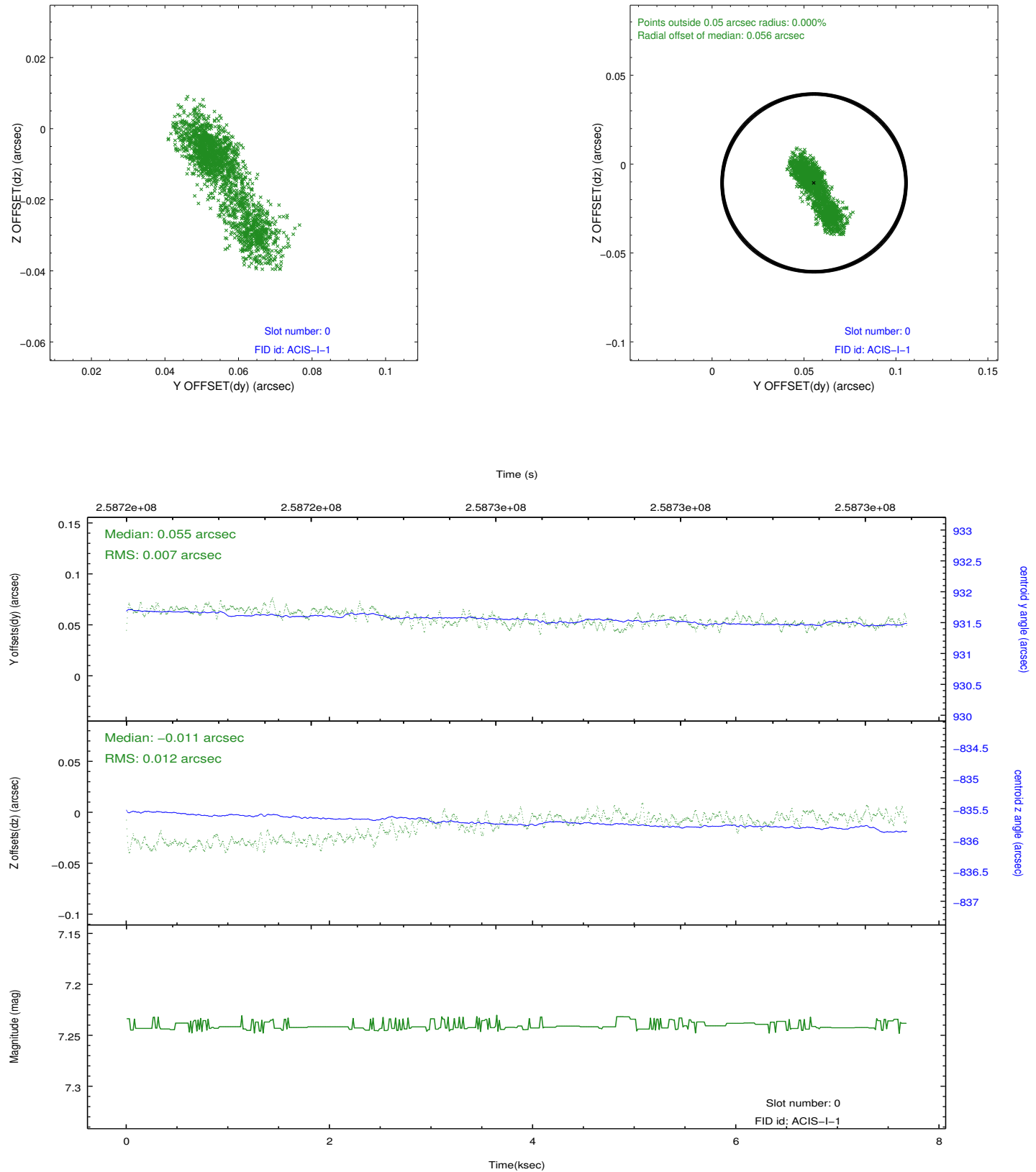


## 2.4.5 Slot 7

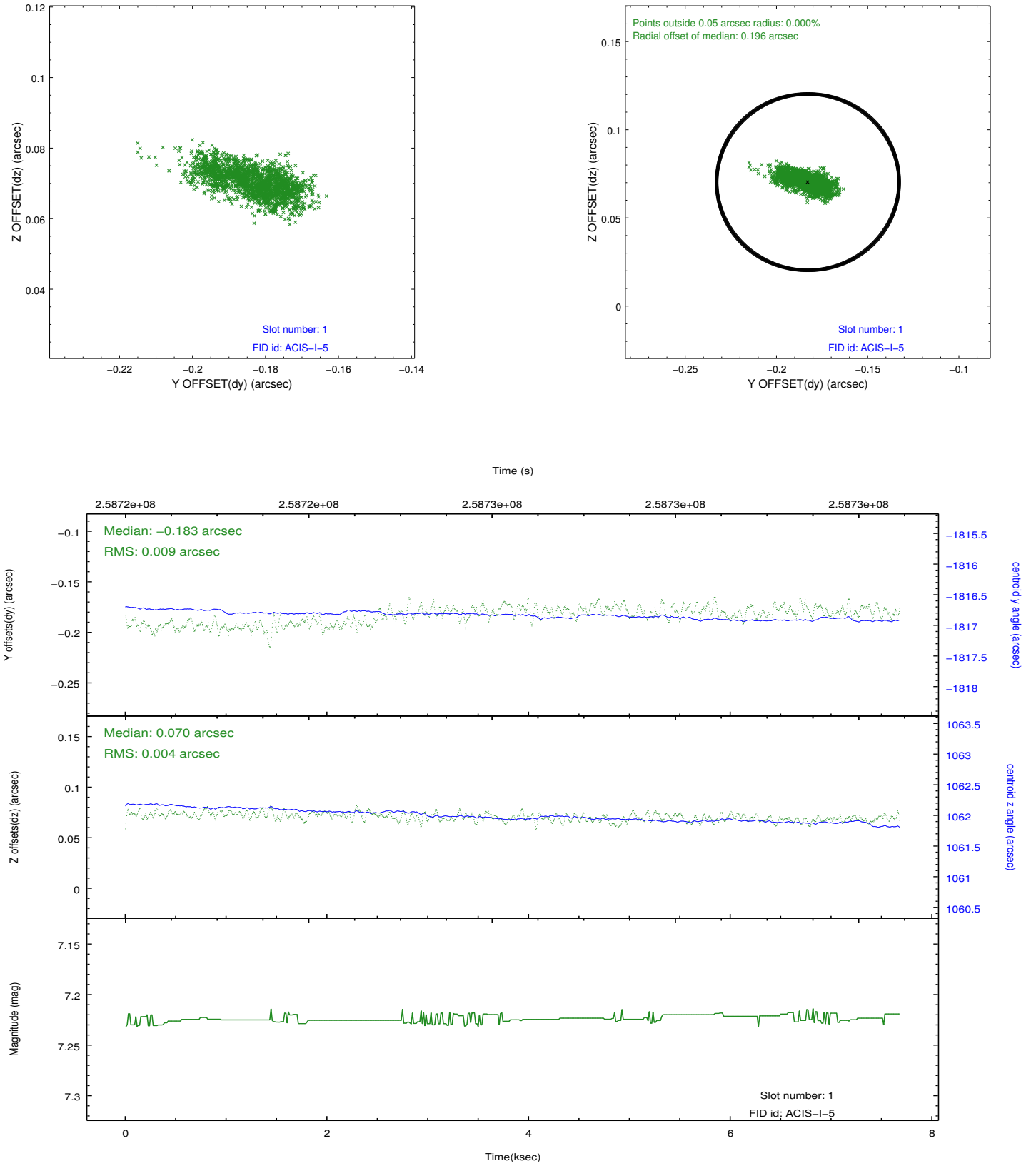


## 2.5 FID Slots

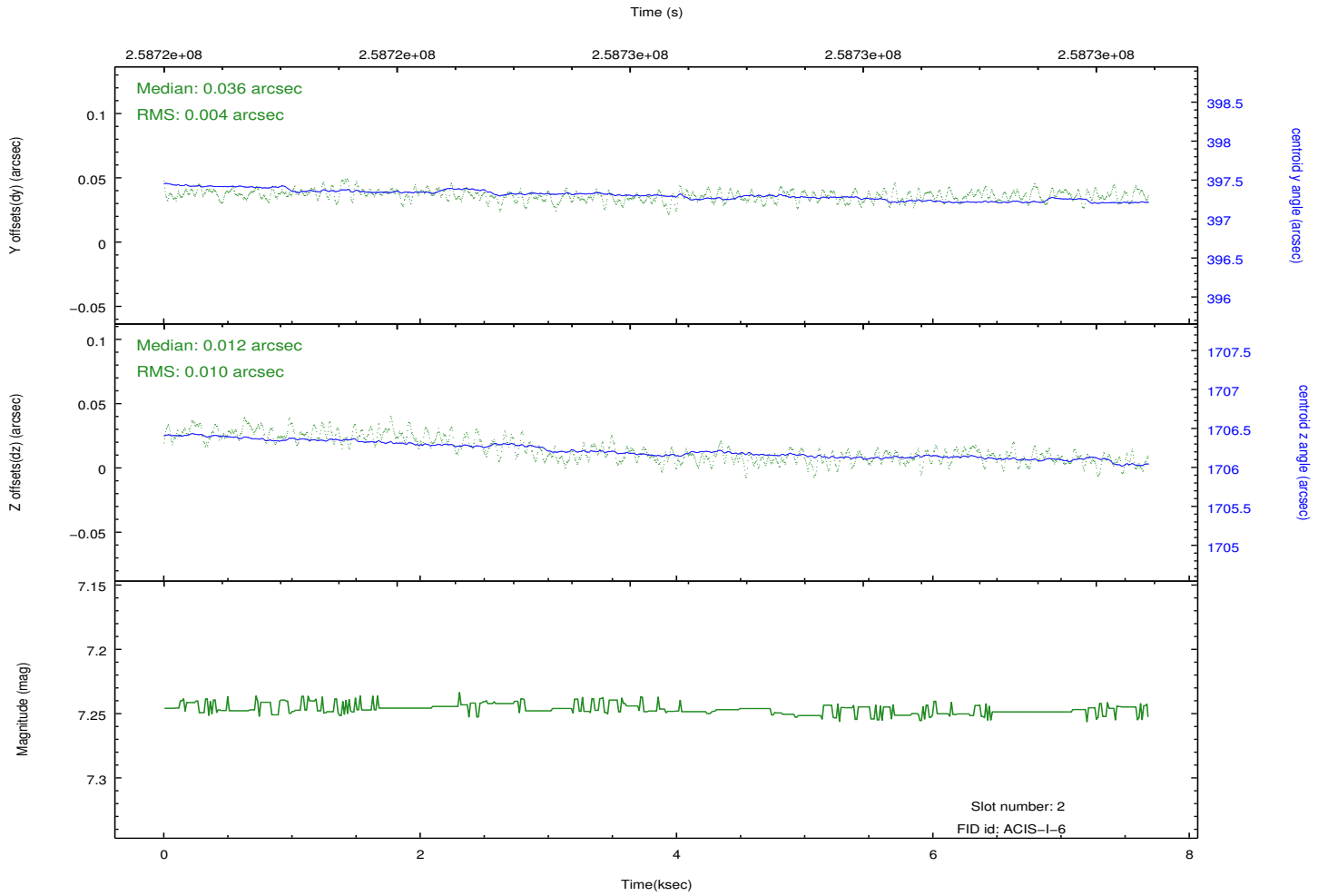
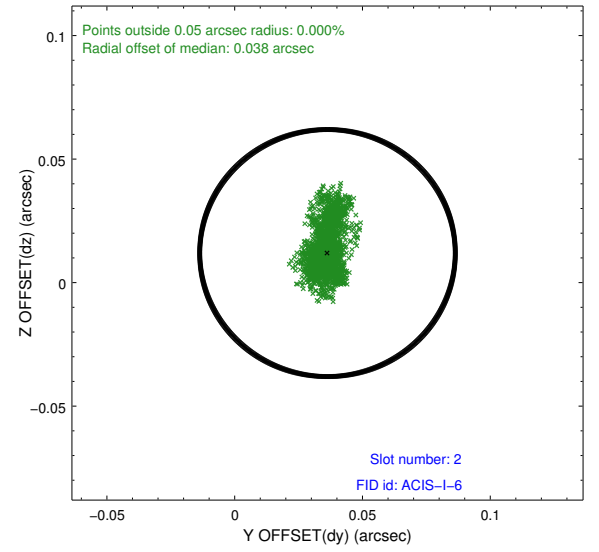
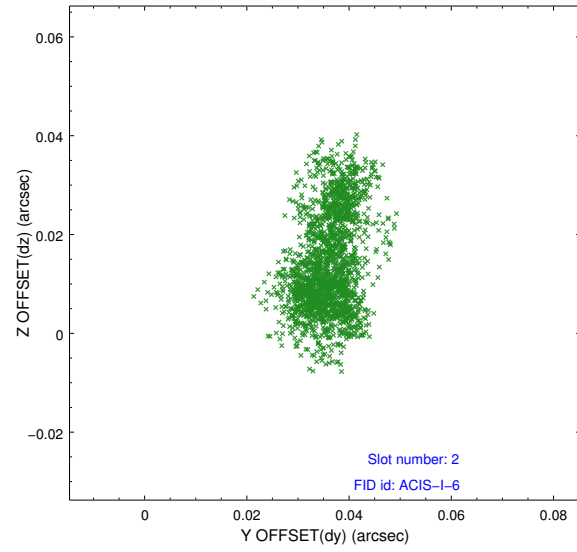
### 2.5.1 Slot 0



## 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)	2012.03.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.25439997

### A.2 Comments

Window constraint met.