

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 949 - L2 Version 4  
Chandra X-Ray Center

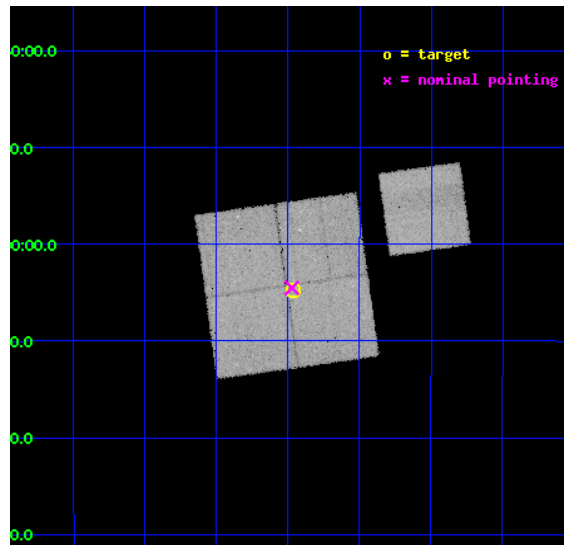
L2 Processing Date : Aug 23 2012

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# 1 Front

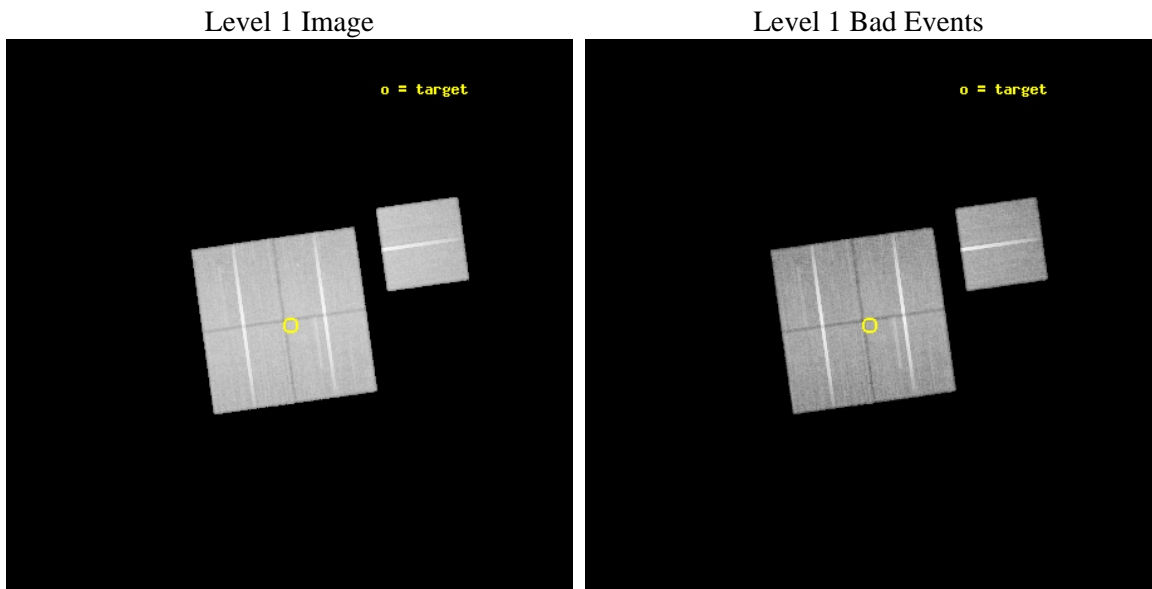
seq_num	900021	Sequence number
obs_id	949	Observation id
title	ORIGIN OF THE GALACTIC RIDGE X-RAY EMISSION	Proposal title
observer	Prof Ken Ebisawa	Principal investigator
object	GALACTIC PLANE	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	280.990833	Observer's specified target RA [deg]
dec_targ	-4.079417	Observer's specified target Dec [deg]
ra_nom	280.99343810966	Nominal RA [deg]
dec_nom	-4.0750228454713	Nominal Dec [deg]
roll_nom	82.014936176762	Nominal Roll [deg]
revision	4	Processing version of data
ontime	41775.91826804	Sum of GTIs [s]
livetime	41246.926436492	Livetime [s]
ontime0	41775.918098494	Sum of GTIs [s]
ontime1	41769.436307684	Sum of GTIs [s]
ontime2	41775.918128416	Sum of GTIs [s]
ontime3	41775.91826804	Sum of GTIs [s]
ontime6	41779.159088656	Sum of GTIs [s]
l2events	174274	Number of level 2 events



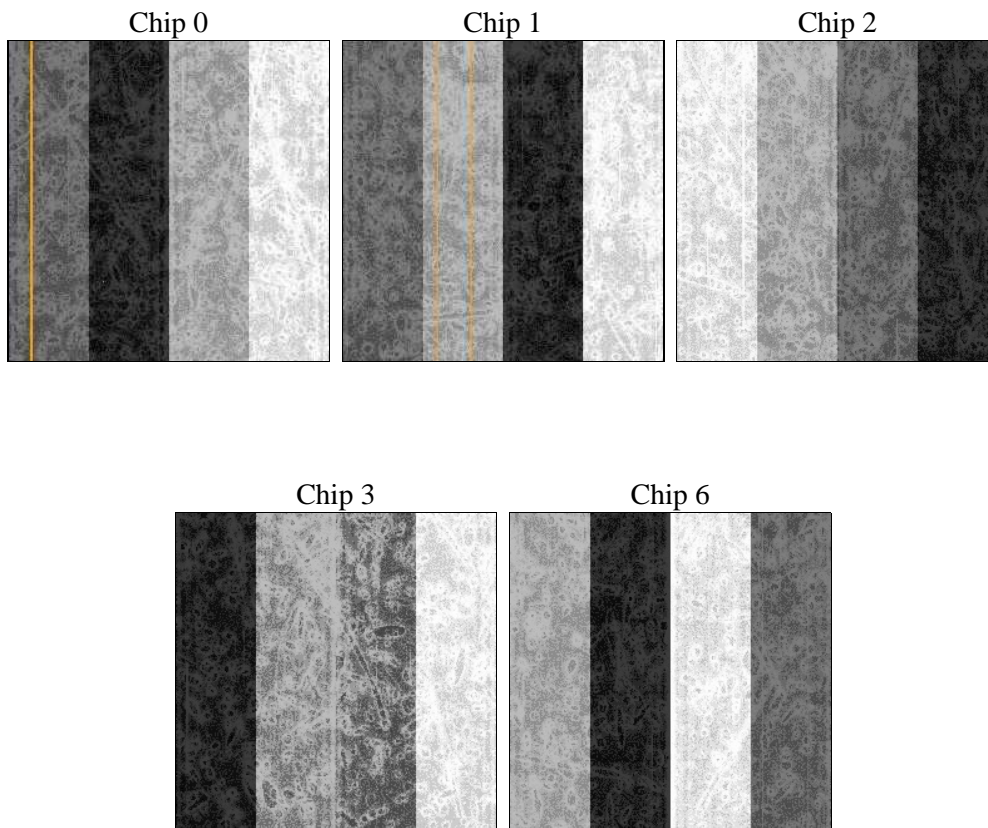
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	42000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	41775.91826804	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime0	41775.918098494	Sum of GTIs [s]
date	2012-08-23T17:44:11	Date and time of file creation	ontime1	41769.436307684	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	41775.918128416	Sum of GTIs [s]
			ontime3	41775.91826804	Sum of GTIs [s]
			ontime6	41779.159088656	Sum of GTIs [s]
			l1events	1633762	Number of level 1 events

### 2.1.4 Events

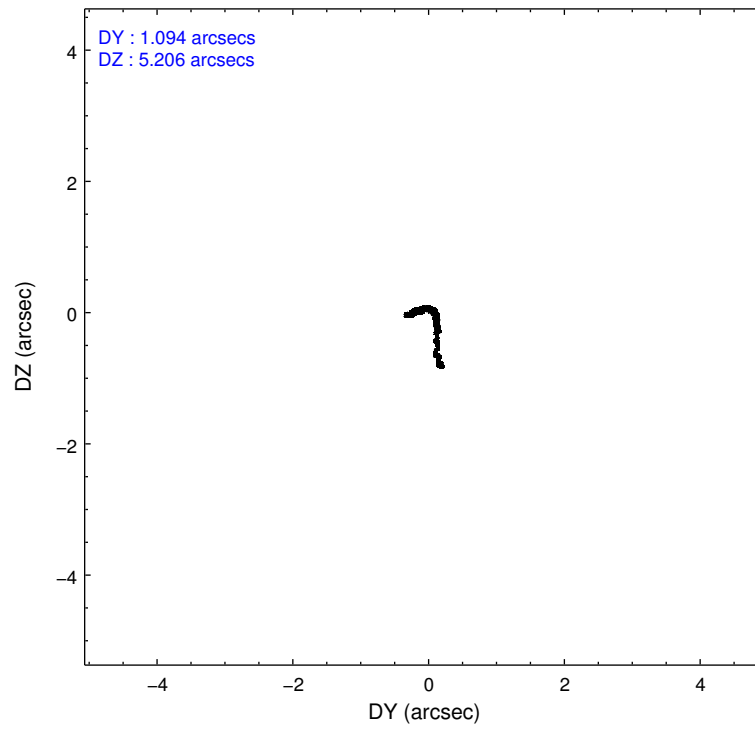
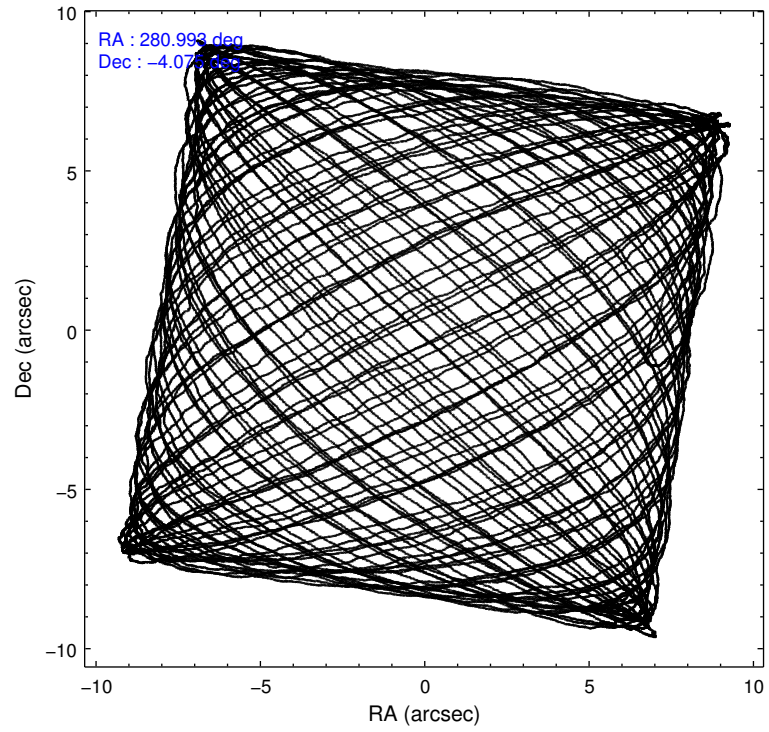
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	316146	316629	334346	332501	334140
rejected events	275200	273941	294310	293692	293609
rejected %	87%	86%	88%	88%	87%

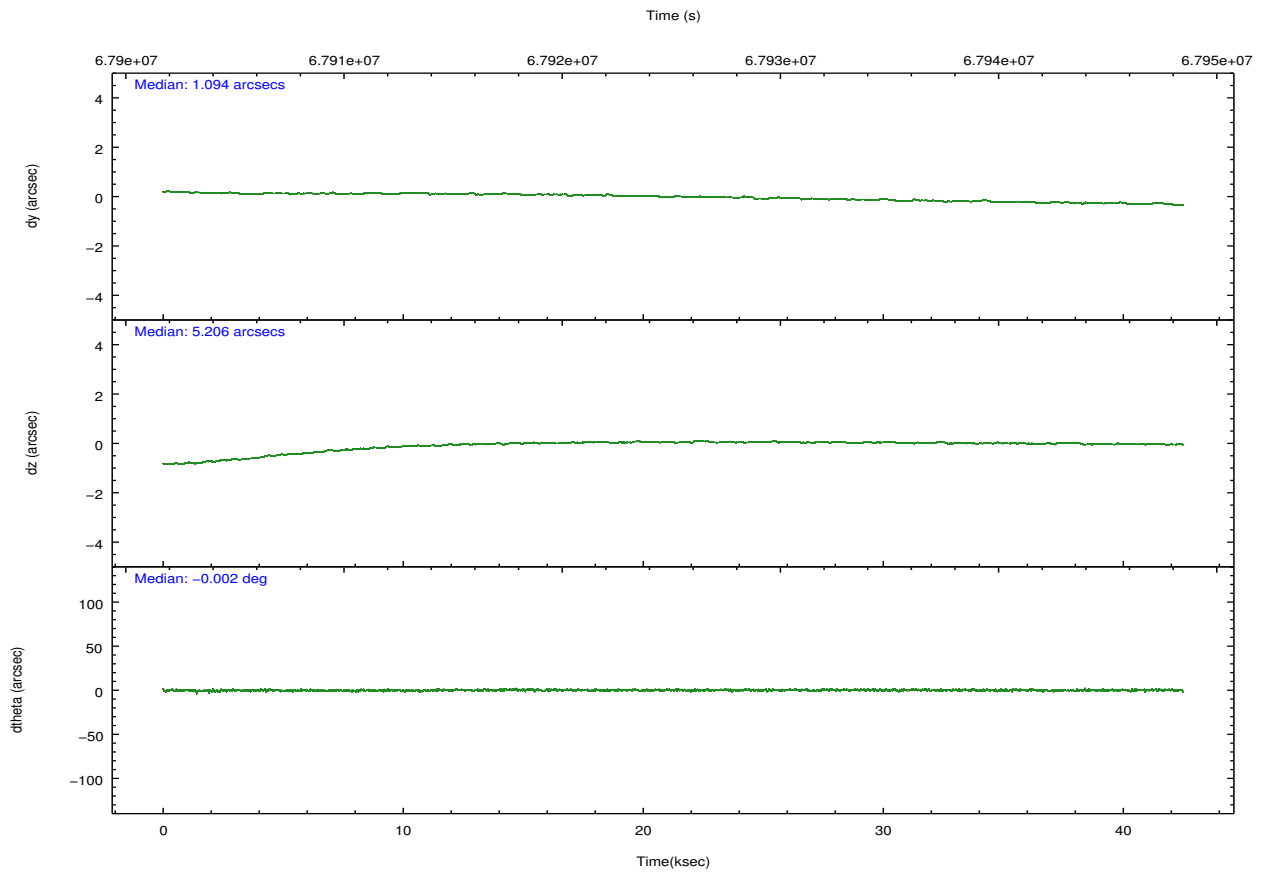
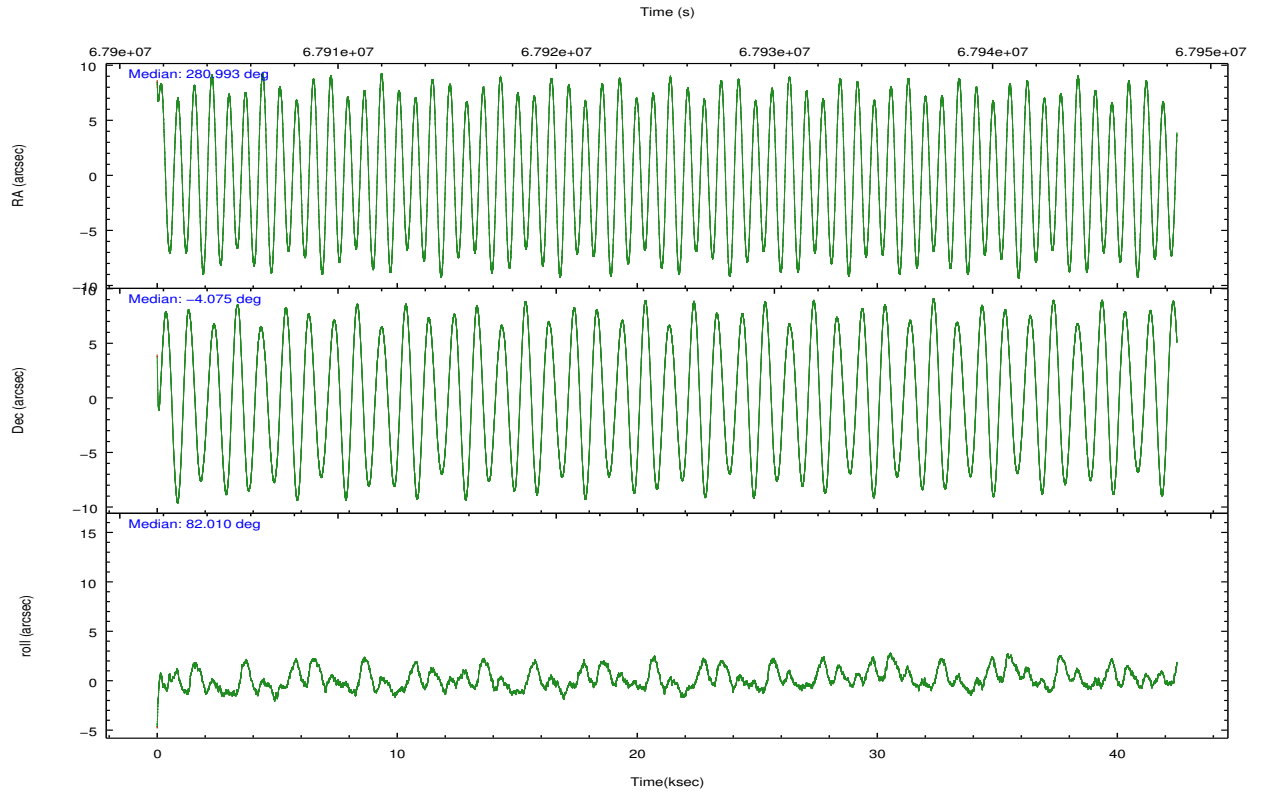
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	19647	19645	19580	18920	19277
	6%	6%	5%	5%	5%
grade 1 events	181	151	161	155	154
	0%	0%	0%	0%	0%
grade 2 events	7925	7859	7599	7056	7237
	2%	2%	2%	2%	2%
grade 3 events	3737	4139	3465	3518	3751
	1%	1%	1%	1%	1%
grade 4 events	3481	4135	3533	3441	3632
	1%	1%	1%	1%	1%
grade 5 events	10225	10818	9501	10324	11632
	3%	3%	2%	3%	3%
grade 6 events	6163	6918	5860	5878	6641
	1%	2%	1%	1%	1%
grade 7 events	264787	262964	284647	283209	281816
	83%	83%	85%	85%	84%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	281.003582	280.9934381096601	Subarray requested	NONE	NONE
[deg] Pointing Dec	-4.100772	-4.075022845471339	Alternating exposures requested	N	N
[deg] Pointing Roll	81.806982	82.01493617676226	[s] Primary exposure time	0.000000	3.2
[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)	67904324.184000	67903210.07754999			
Observation start date	2000-02-25T22:17:40	2000-02-25T22:00:10			
[s] Observation end time (MET)	67946324.184000	67947149.266654			
Observation end date	2000-02-26T09:57:40	2000-02-26T10:12:29			
Read mode	TIMED	TIMED			

## 2.3 Aspect



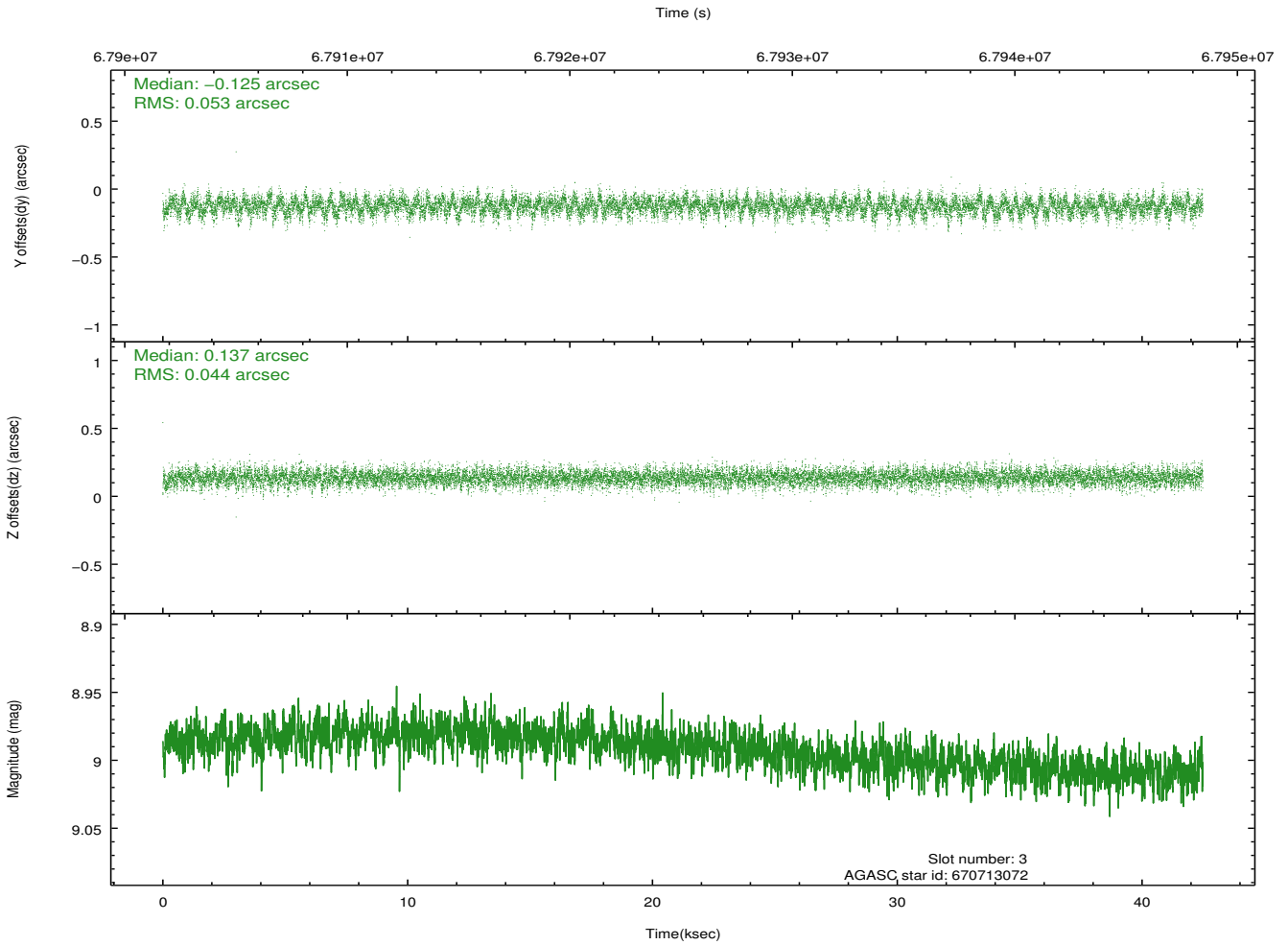
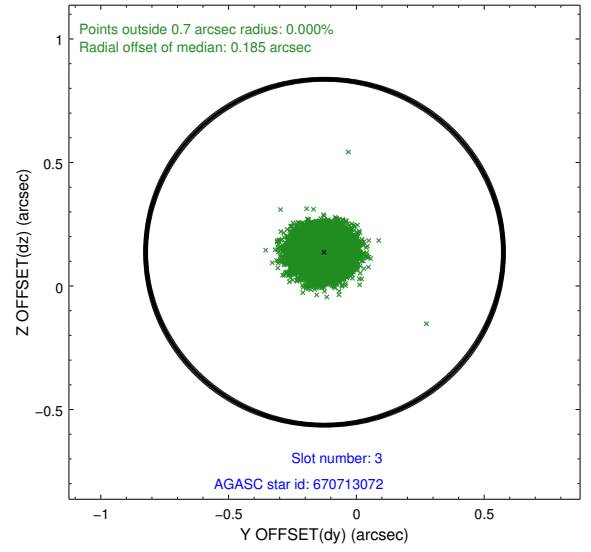
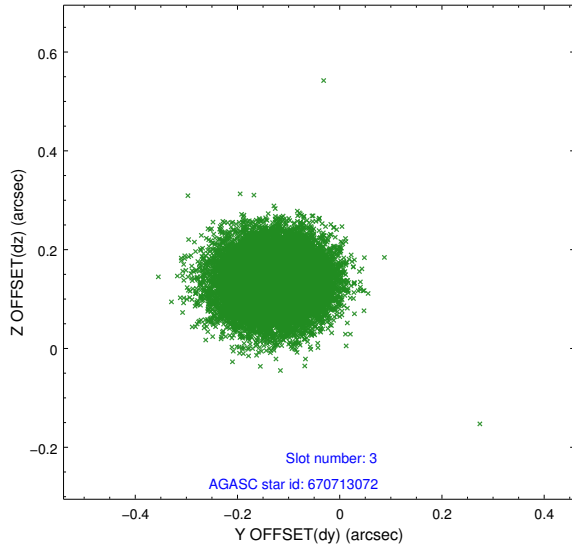


### Slot Statistics

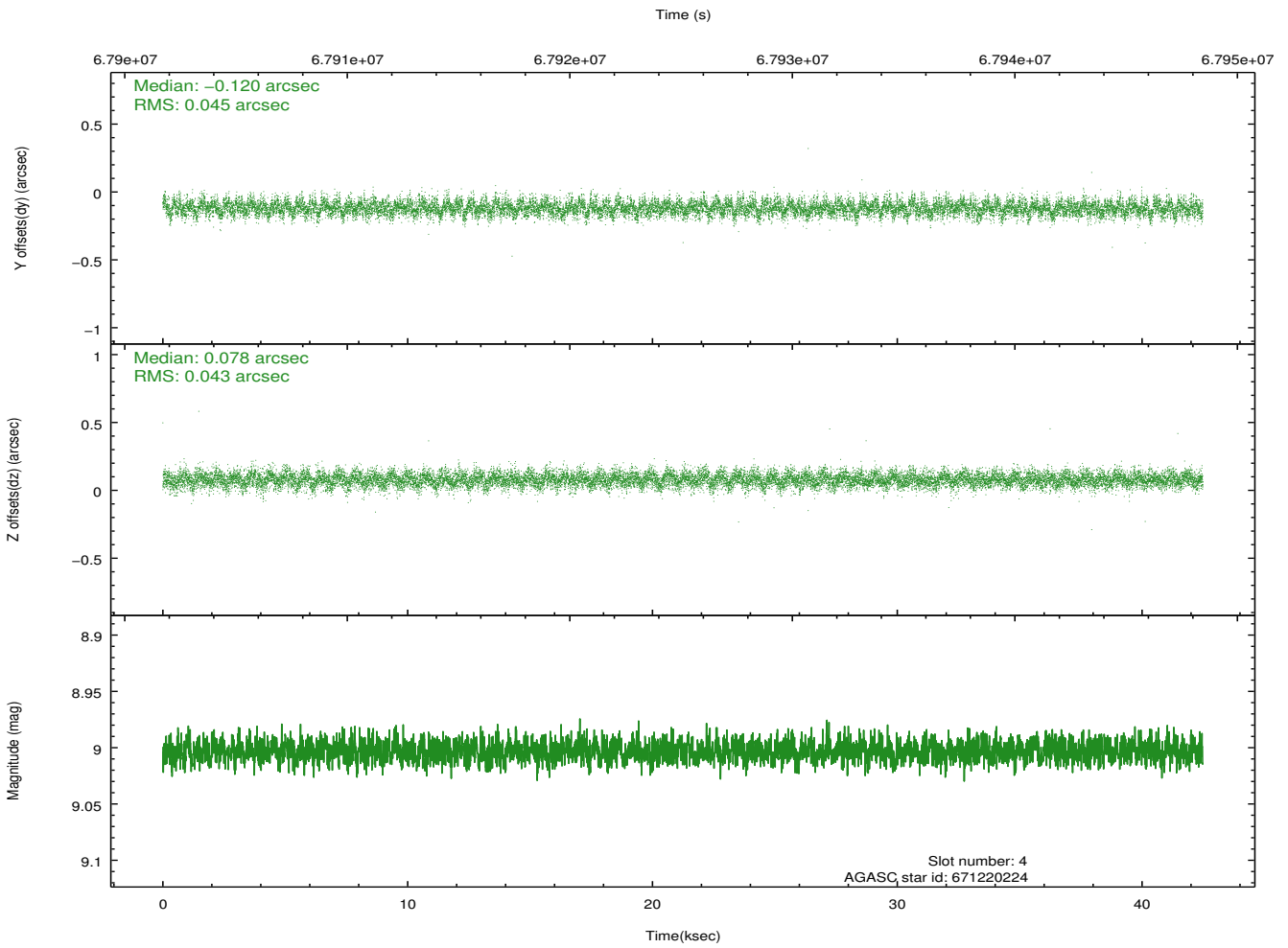
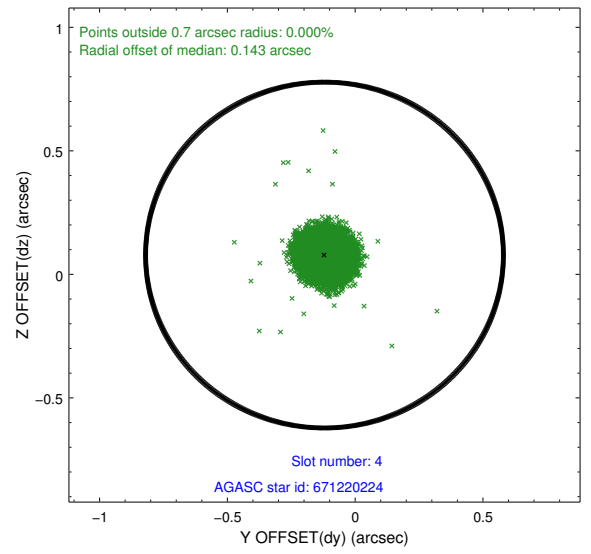
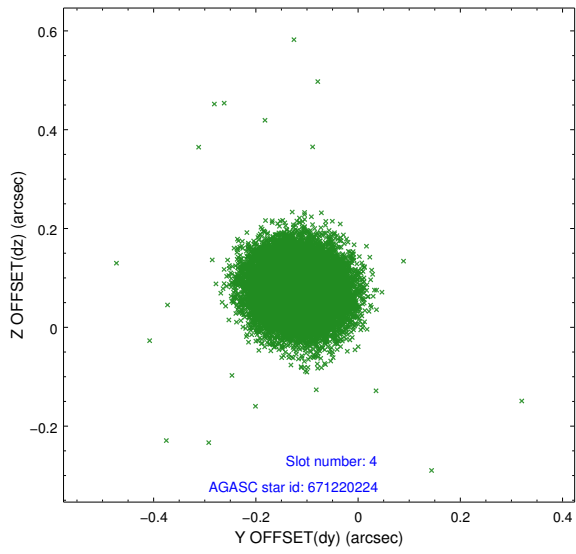
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	10361	-0.031	-0.040	0.011	0.018	0.000000	0.000000	-755.42	-834.85
1	FID	ACIS-I-4	7.19	10359	-0.036	0.037	0.010	0.024	0.000000	0.000000	2158.63	1071.40
2	FID	ACIS-I-5	7.23	10359	-0.036	0.072	0.011	0.020	0.000000	0.000000	-1809.24	1069.29
3	GUIDE	670713072	8.99	20708	-0.125	0.137	0.073	0.118	281.205407	-3.604132	1873.43	-462.82
4	GUIDE	671220224	9.00	20719	-0.120	0.078	0.066	0.107	281.177307	-4.024004	363.01	-578.18
5	GUIDE	671352536	9.25	20705	0.117	0.186	0.083	0.138	281.318960	-4.788754	-2289.62	-1473.11
6	GUIDE	671222400	9.67	20711	-0.084	-0.256	0.117	0.191	280.393480	-3.876226	487.25	2283.64
7	GUIDE	671223256	9.94	20706	0.219	-0.144	0.106	0.173	280.925694	-4.211733	-434.42	219.64

## 2.4 Star Slots

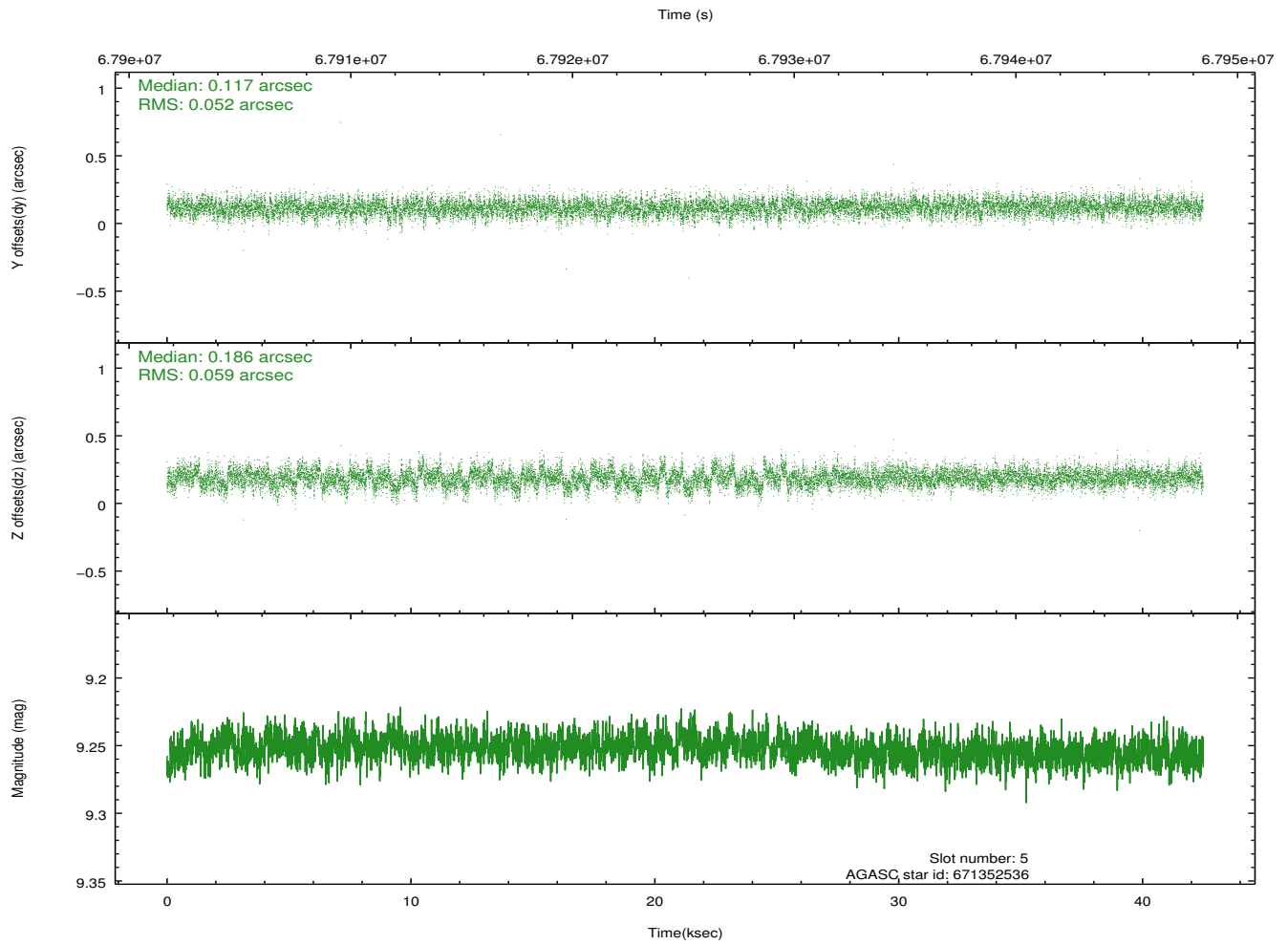
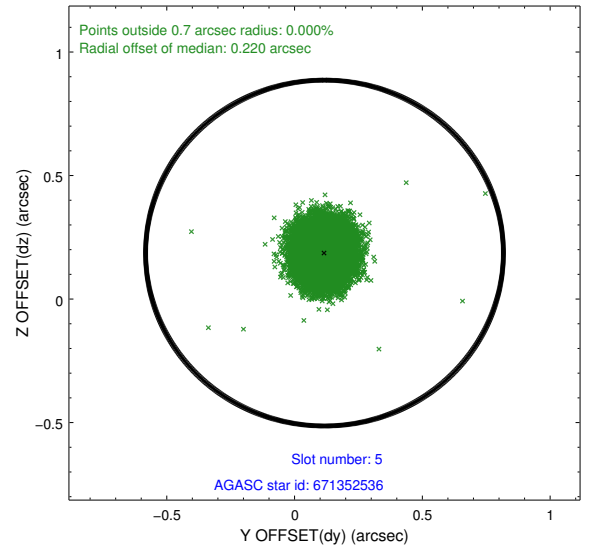
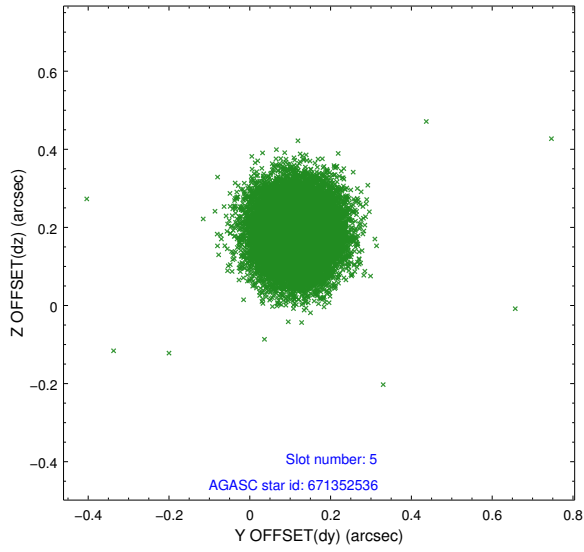
### 2.4.1 Slot 3



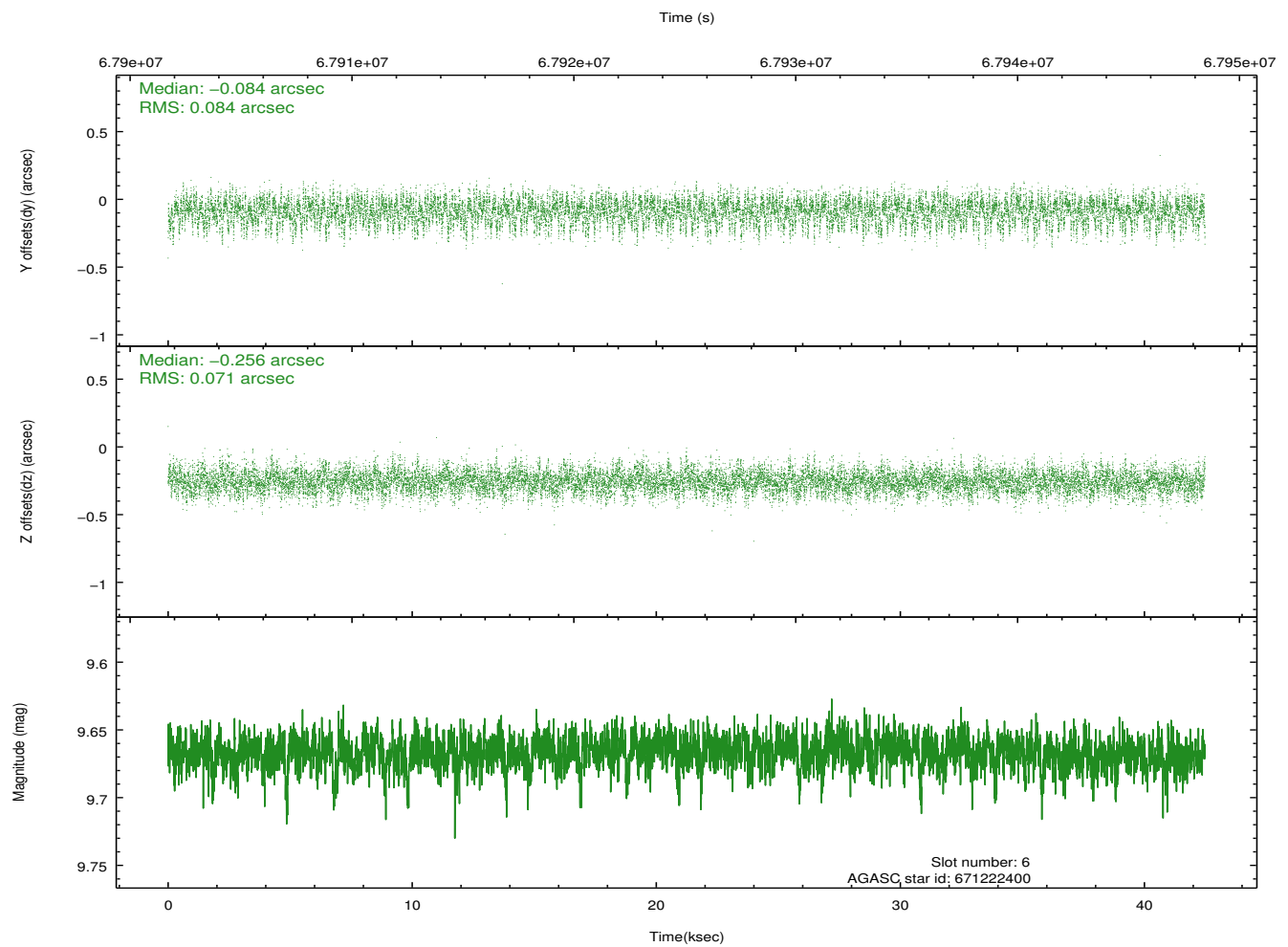
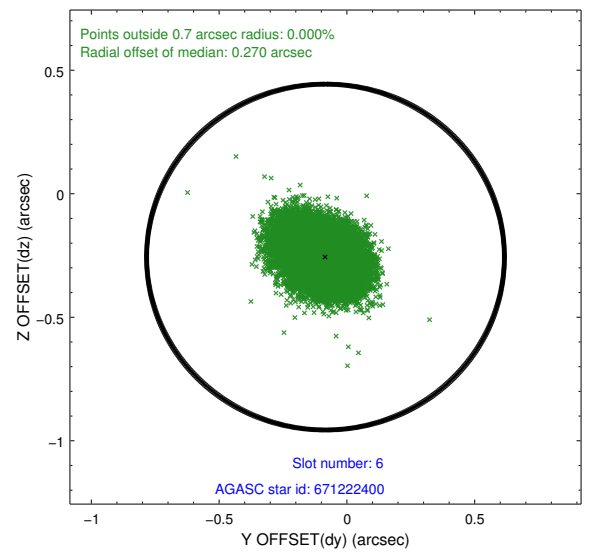
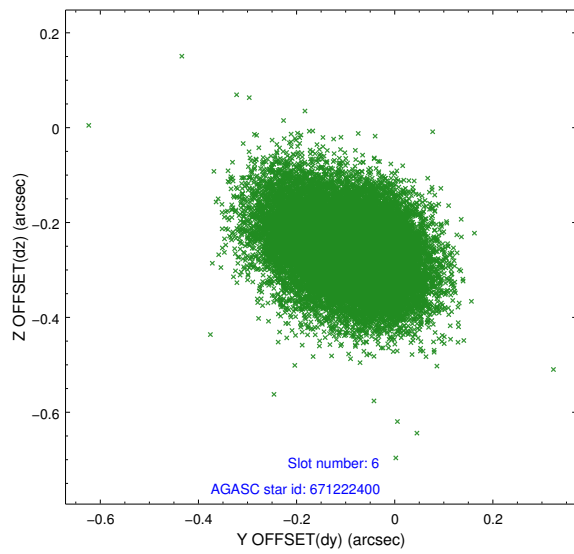
## 2.4.2 Slot 4



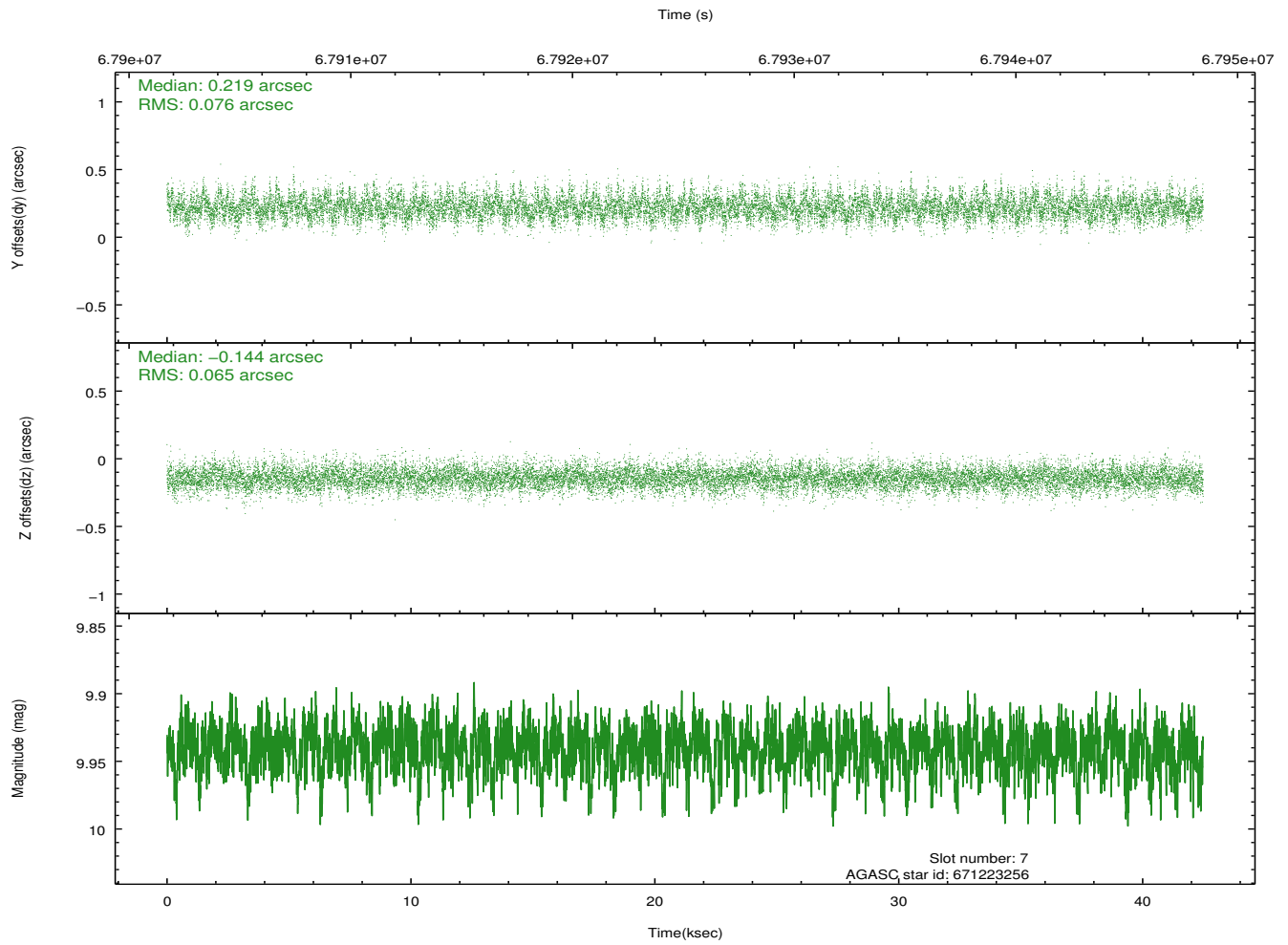
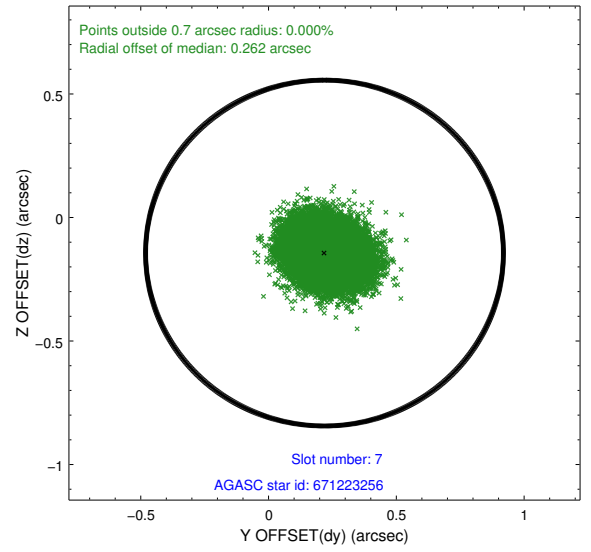
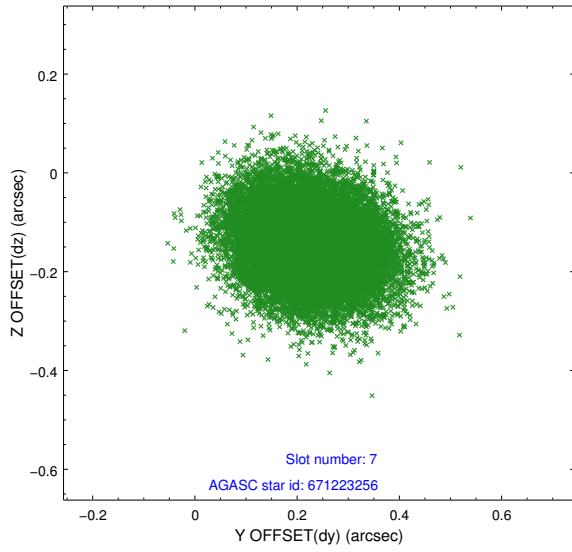
### 2.4.3 Slot 5



## 2.4.4 Slot 6

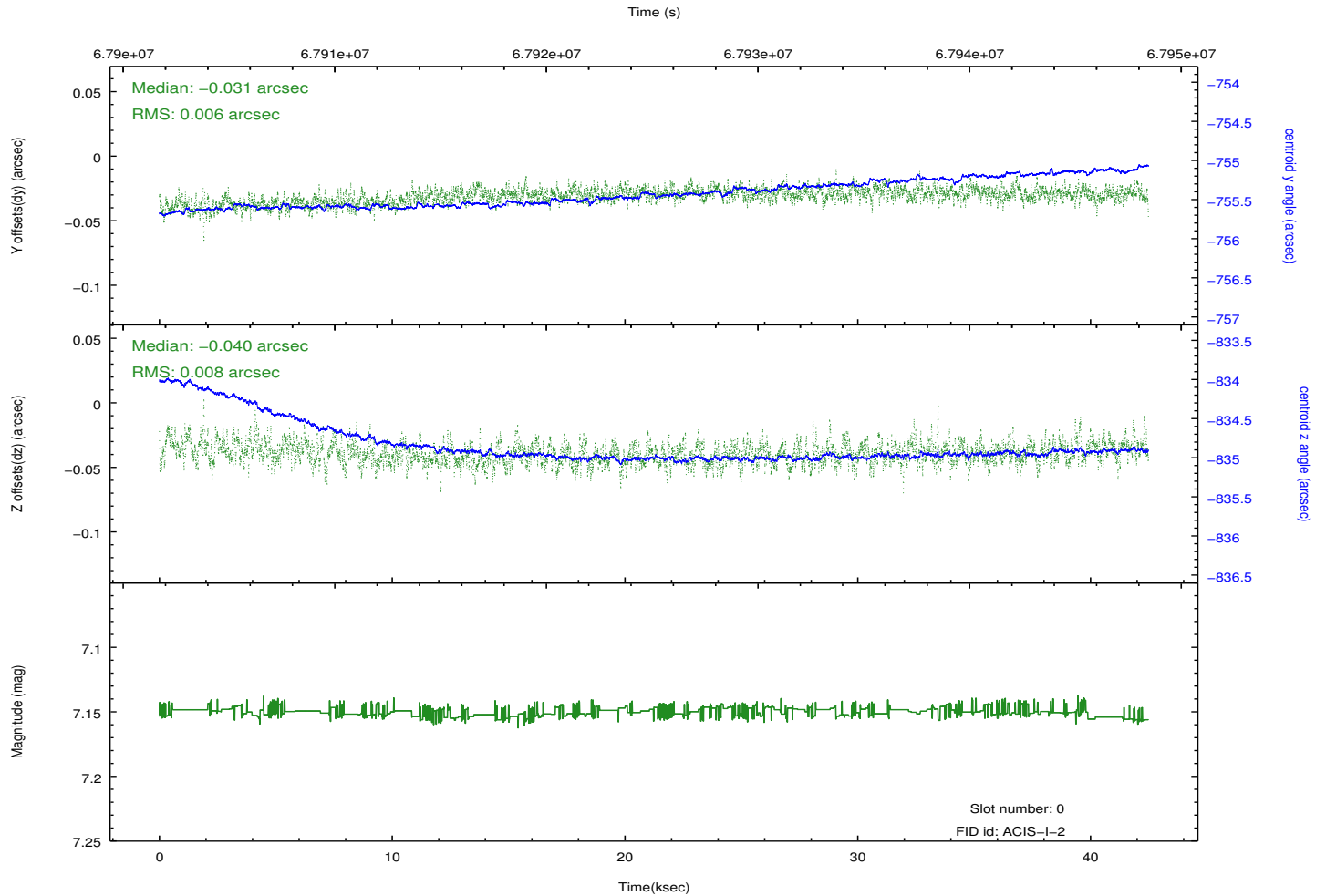
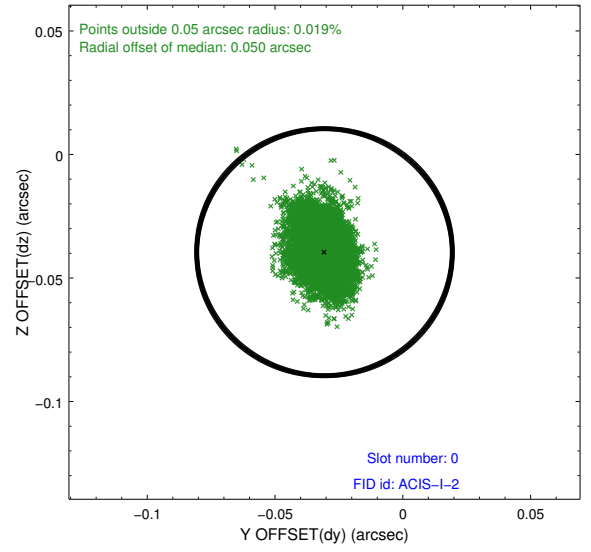
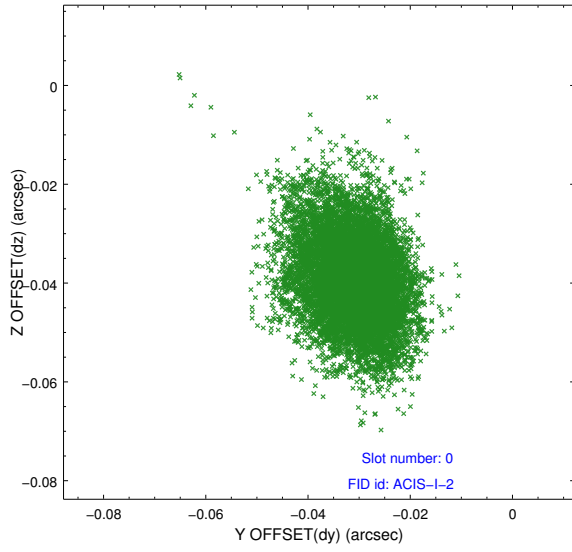


## 2.4.5 Slot 7

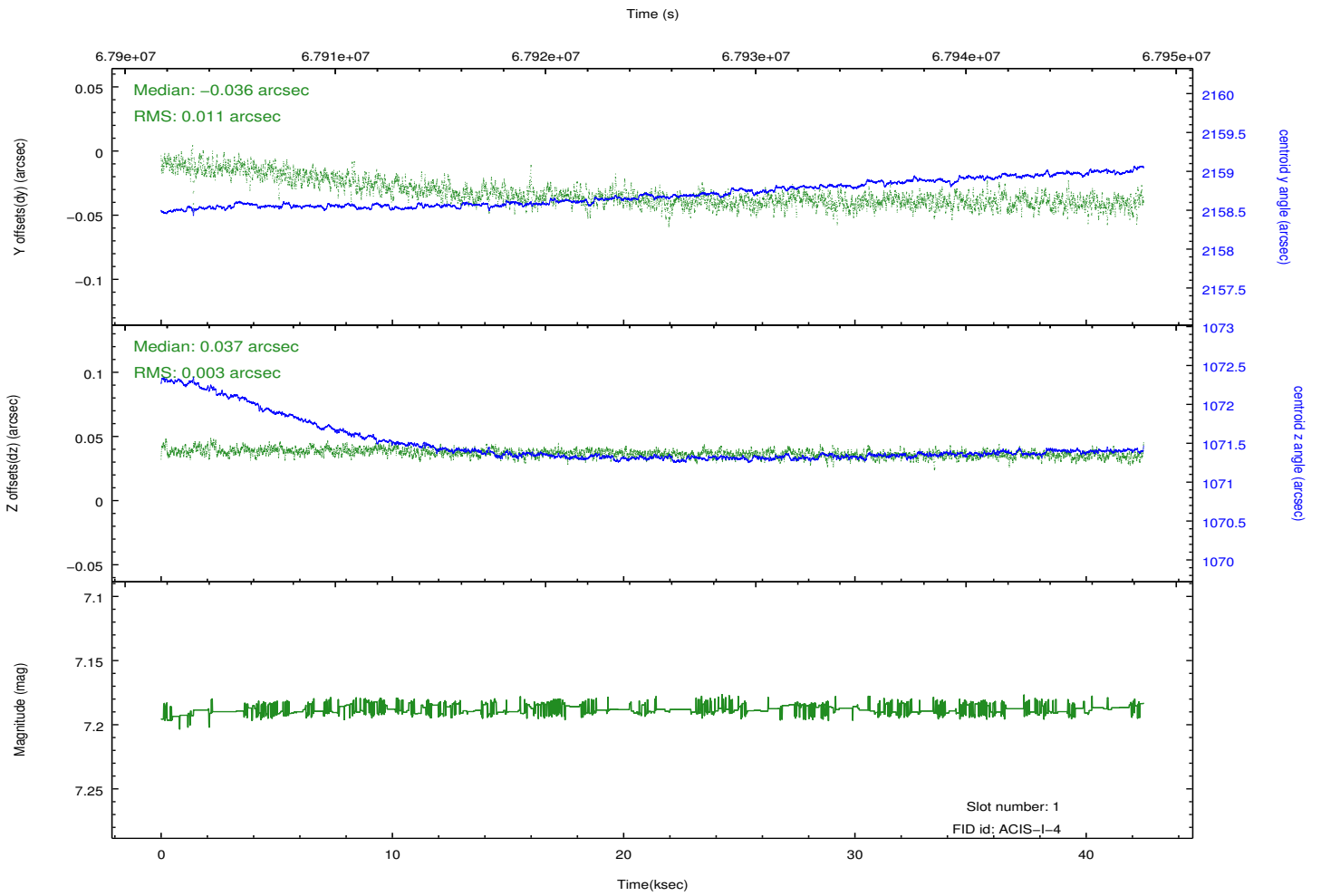
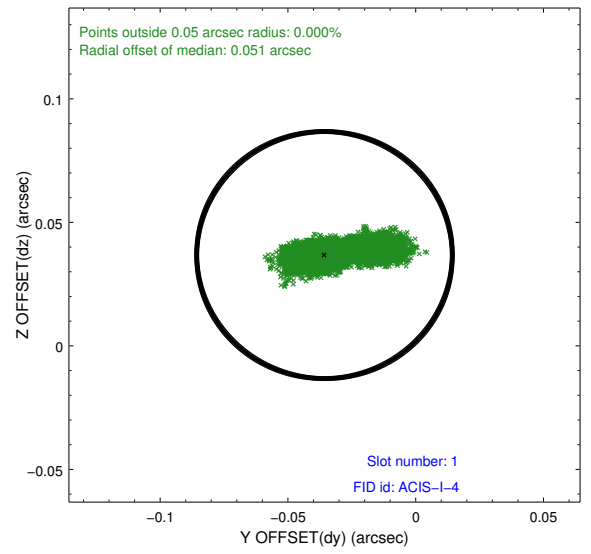
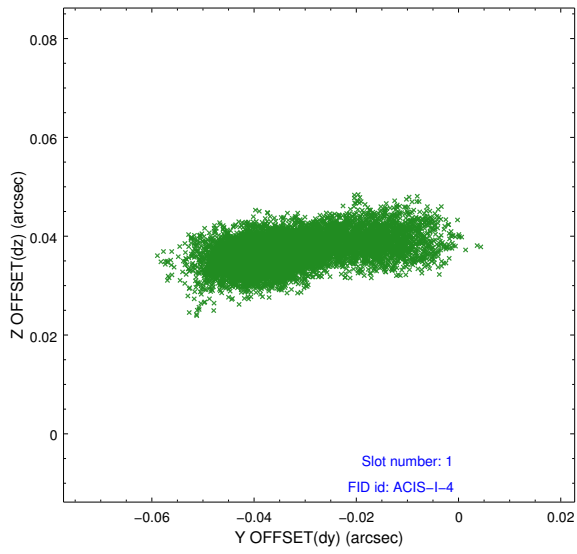


## 2.5 FID Slots

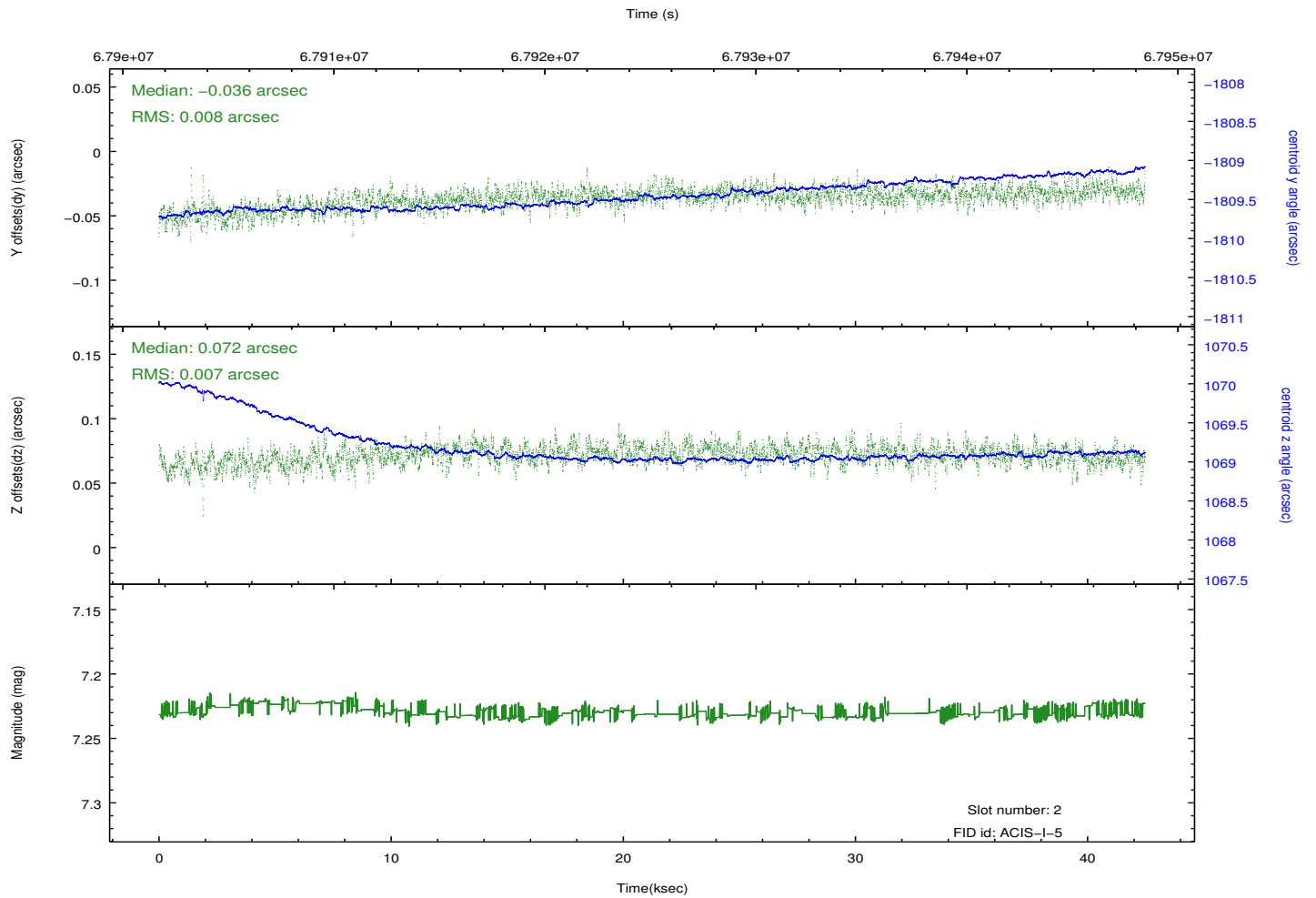
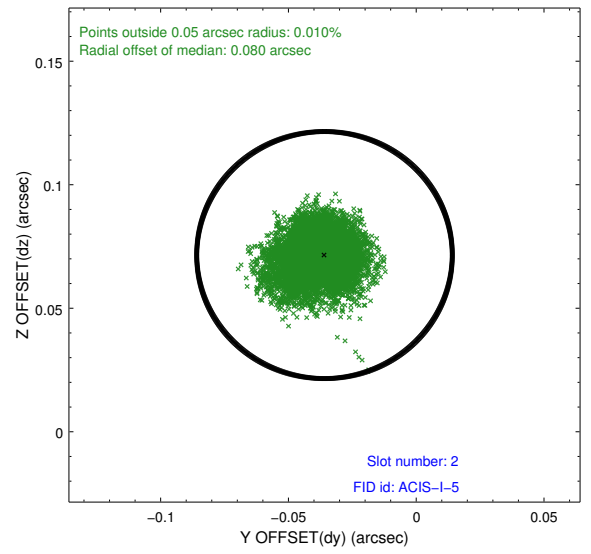
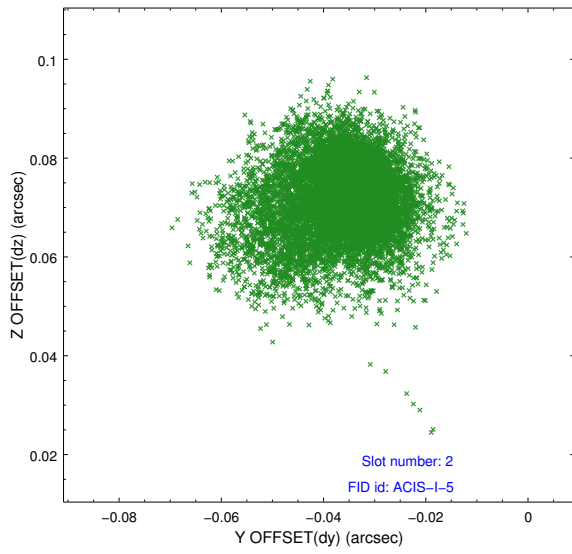
### 2.5.1 Slot 0



## 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)	2012.08.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.779

### **A.2 Comments**