

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11730 - L2 Version 2  
Chandra X-Ray Center

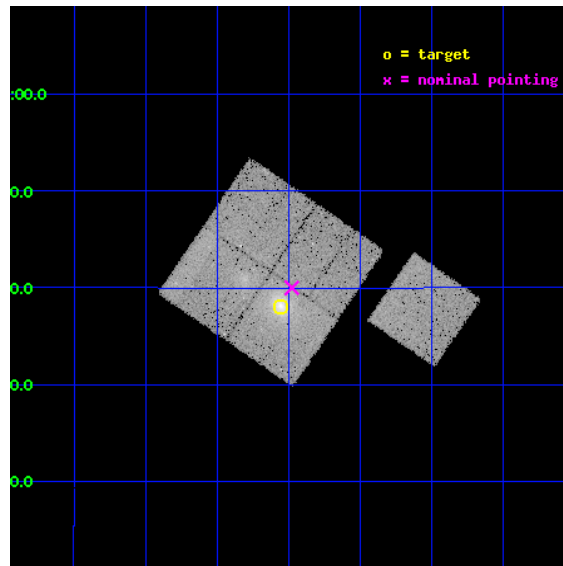
L2 Processing Date : Jun 11 2012

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# 1 Front

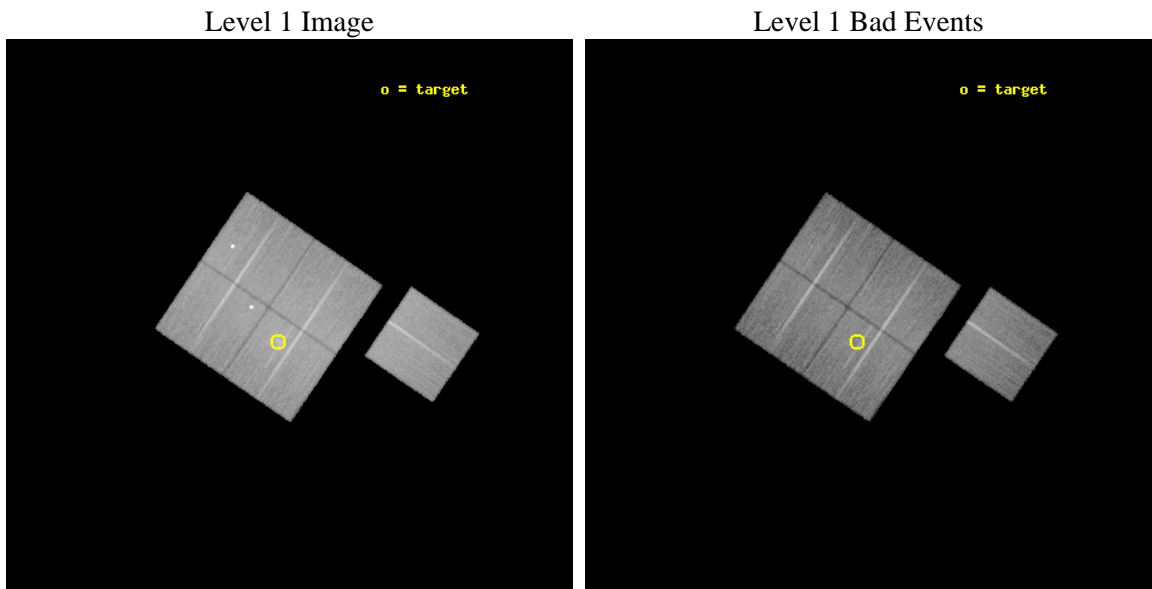
seq_num	800870	Sequence number
obs_id	11730	Observation id
title	Cosmology with a complete sample of 0.15	Proposal title
observer	Prof. Massimiliano Bonamente	Principal investigator
object	Abell 2552	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	347.88875	Observer's specified target RA [deg]
dec_targ	3.634444	Observer's specified target Dec [deg]
ra_nom	347.86899310441	Nominal RA [deg]
dec_nom	3.6666419605083	Nominal Dec [deg]
roll_nom	124.31431923923	Nominal Roll [deg]
revision	2	Processing version of data
ontime	22960.458203733	Sum of GTIs [s]
livetime	22660.462914058	Livetime [s]
ontime0	22957.194073379	Sum of GTIs [s]
ontime1	22954.094103158	Sum of GTIs [s]
ontime2	22960.41716373	Sum of GTIs [s]
ontime3	22960.458203733	Sum of GTIs [s]
ontime6	22954.012013197	Sum of GTIs [s]
l2events	97087	Number of level 2 events



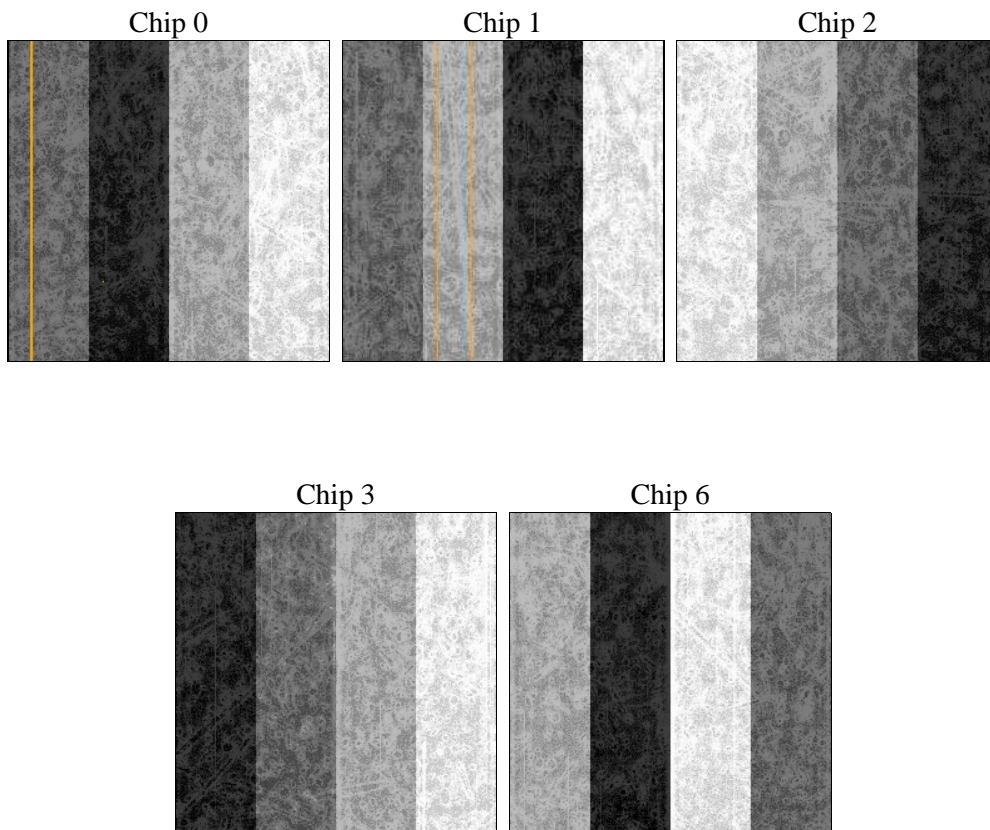
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	22915.385000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	22960.458203733	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime0	22957.194073379	Sum of GTIs [s]
date	2012-06-11T14:49:14	Date and time of file creation	ontime1	22954.094103158	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	22960.41716373	Sum of GTIs [s]
			ontime3	22960.458203733	Sum of GTIs [s]
			ontime6	22954.012013197	Sum of GTIs [s]
			l1events	999498	Number of level 1 events

### 2.1.4 Events

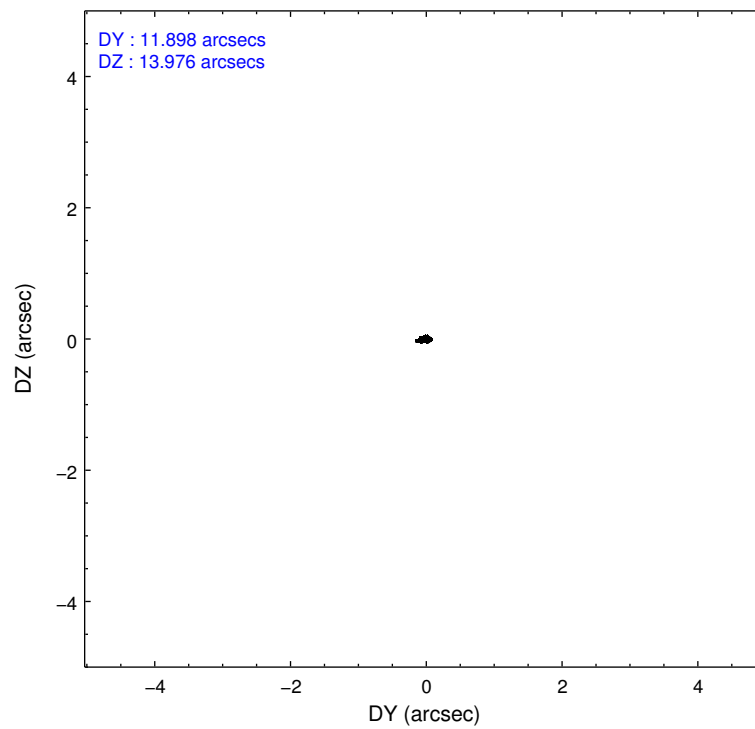
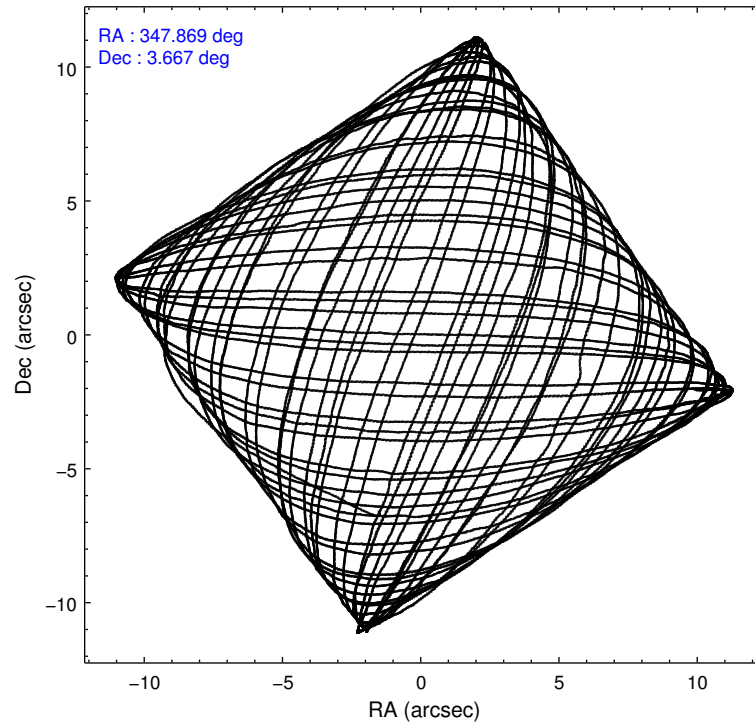
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	193001	195665	201725	212881	196226
rejected events	165426	164501	181871	183356	175879
rejected %	85%	84%	90%	86%	89%

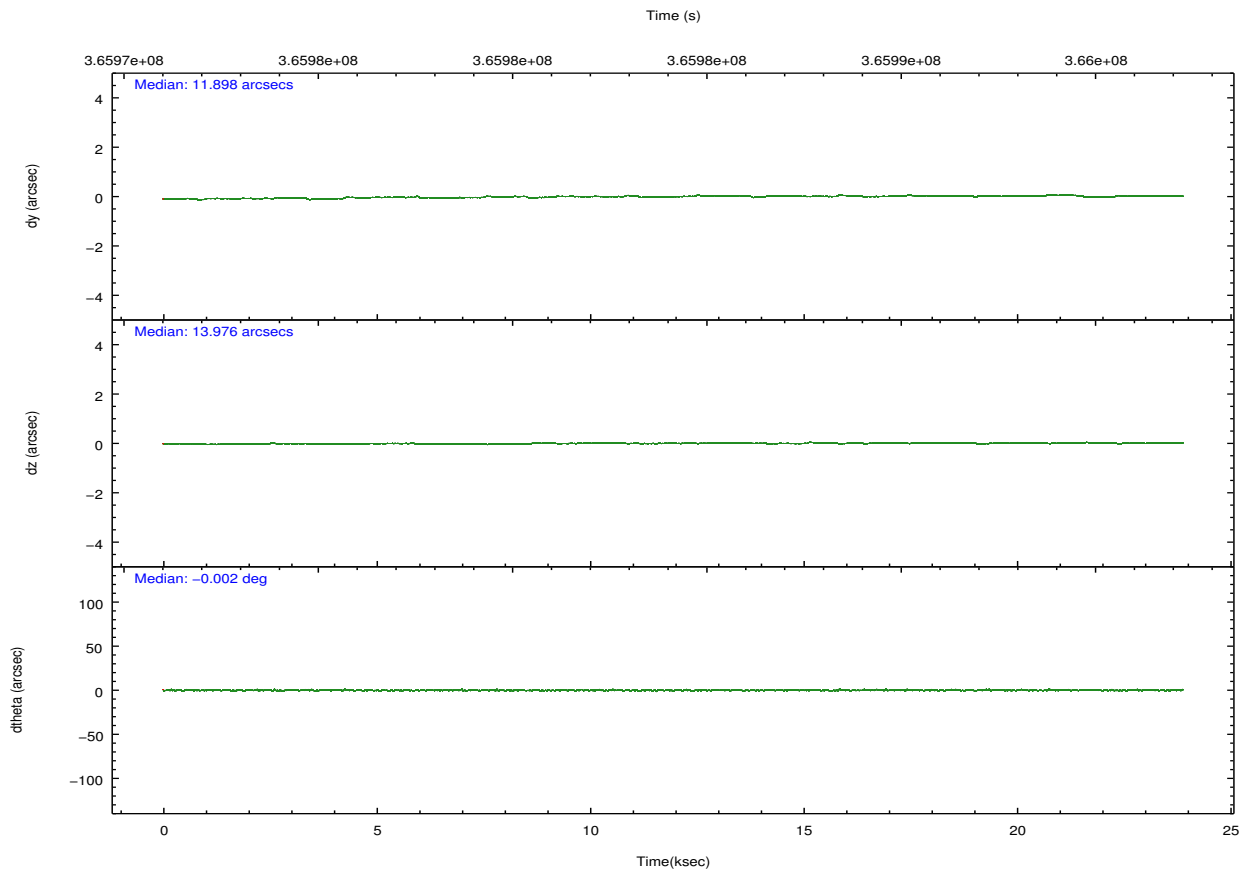
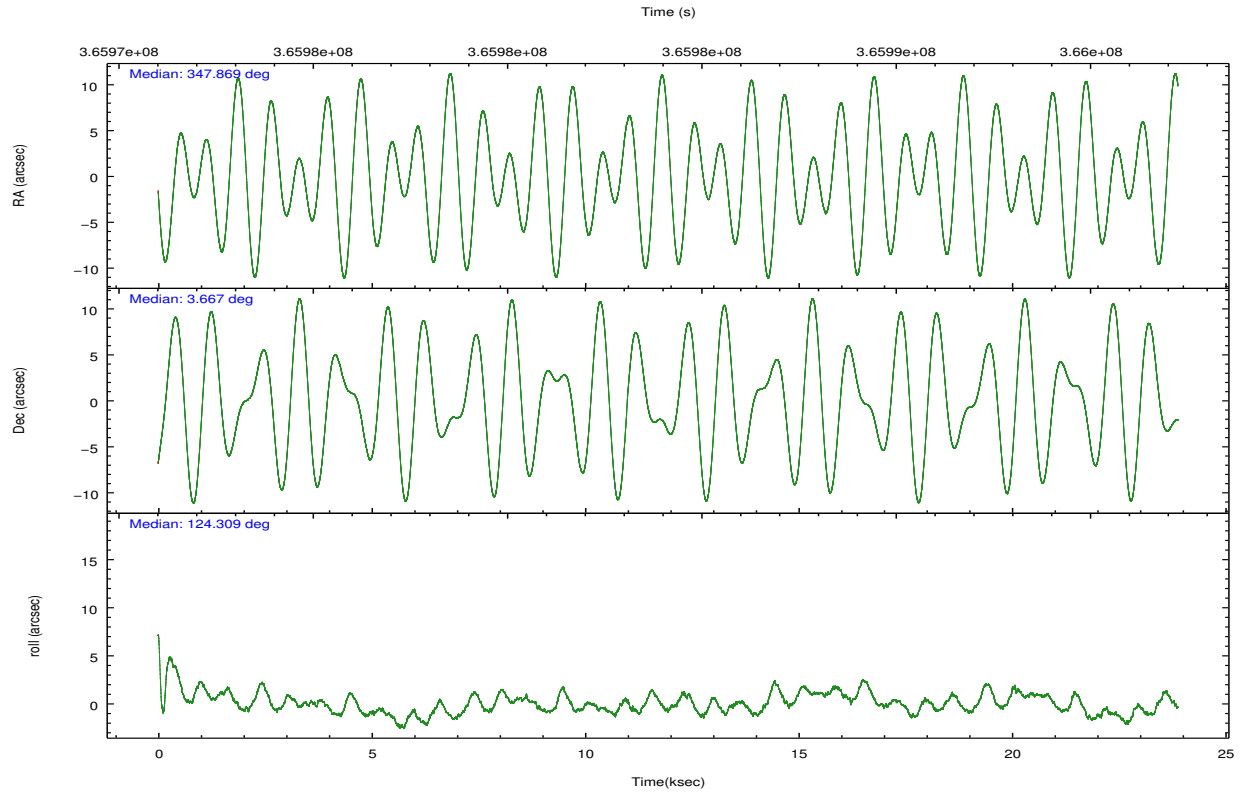
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	7485	16417	7238	15364	6906
	3%	8%	3%	7%	3%
grade 1 events	99	157	108	176	94
	0%	0%	0%	0%	0%
grade 2 events	11837	5354	4789	5286	4603
	6%	2%	2%	2%	2%
grade 3 events	2297	2410	2028	2404	2187
	1%	1%	1%	1%	1%
grade 4 events	2029	2406	2123	2380	2196
	1%	1%	1%	1%	1%
grade 5 events	7171	8008	6496	8253	8089
	3%	4%	3%	3%	4%
grade 6 events	3929	4579	3677	4098	4459
	2%	2%	1%	1%	2%
grade 7 events	158154	156334	175266	174920	167692
	81%	79%	86%	82%	85%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	347.893881	347.8689931044137	Subarray requested	NONE	NONE
[deg] Pointing Dec	3.654826	3.666641960508321	Alternating exposures requested	N	N
[deg] Pointing Roll	124.104039	124.3143192392336	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-227.592463	-227.5958210972112			
[mm] SIM translation stage offset	-6	-5.996631905718488			
[s] Observation start time (MET)	365973150.184000	365971828.52173			
Observation start date	2009-08-06T19:11:24	2009-08-06T18:50:28			
[s] Observation end time (MET)	365996066.184000	365996286.56045			
Observation end date	2009-08-07T01:33:20	2009-08-07T01:38:06			
Read mode	TIMED	TIMED			

## 2.3 Aspect



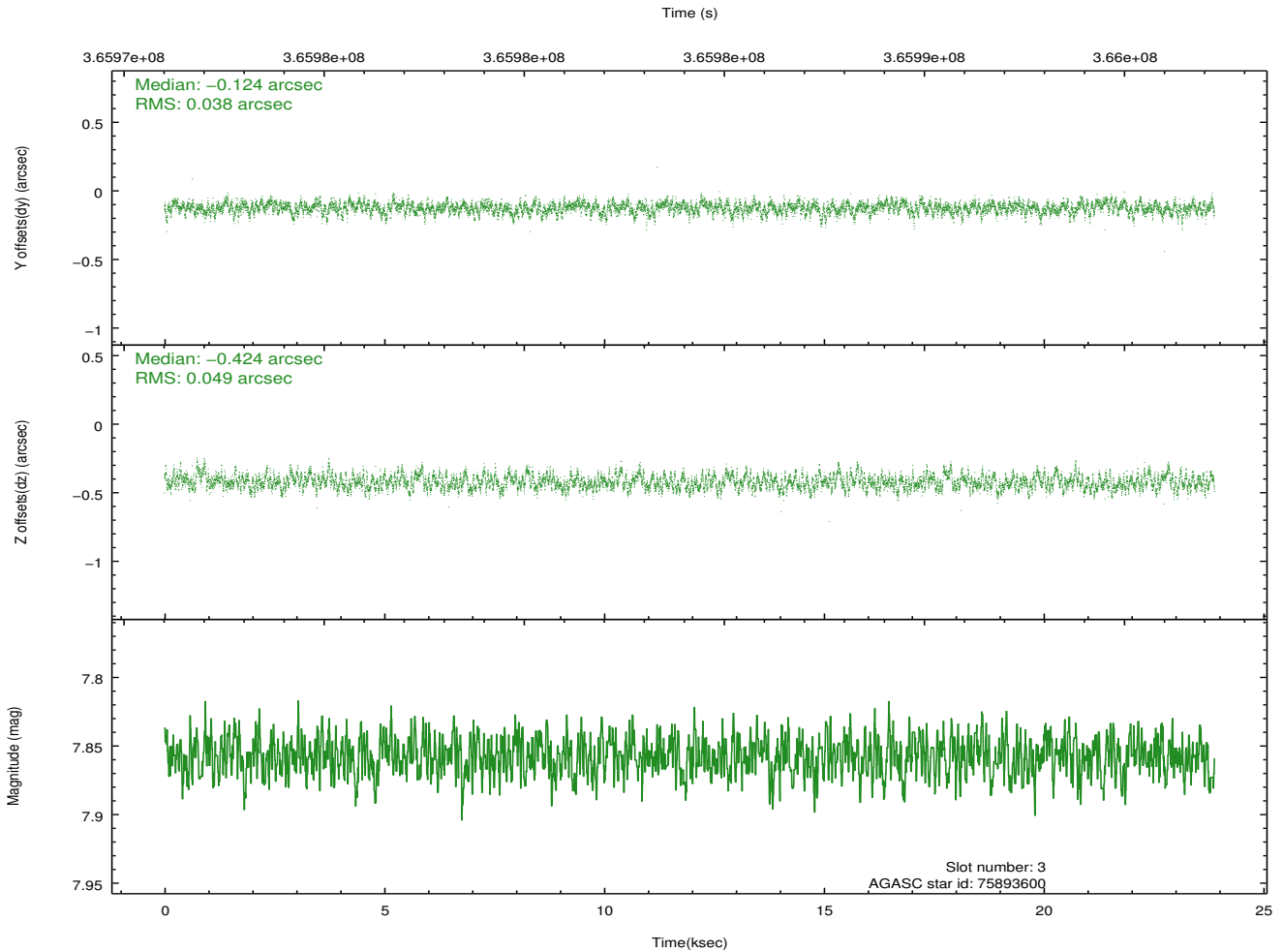
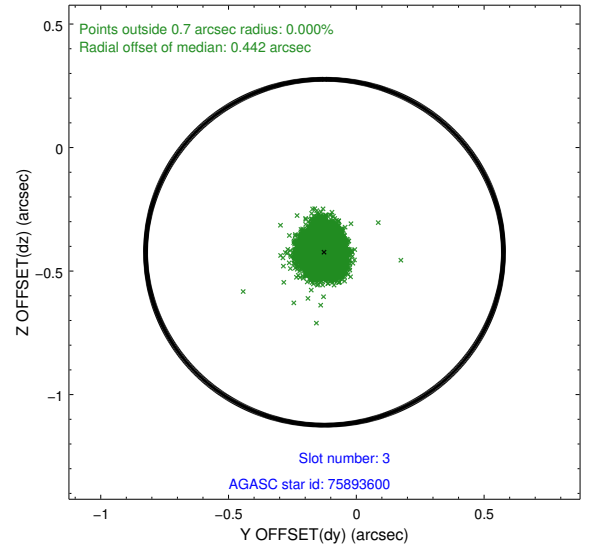
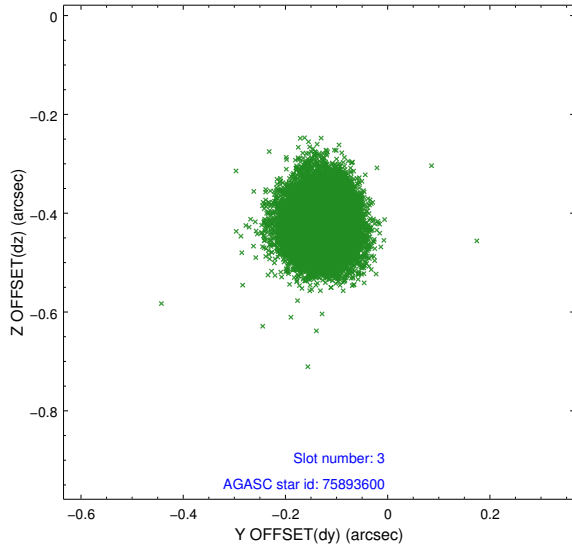


### Slot Statistics

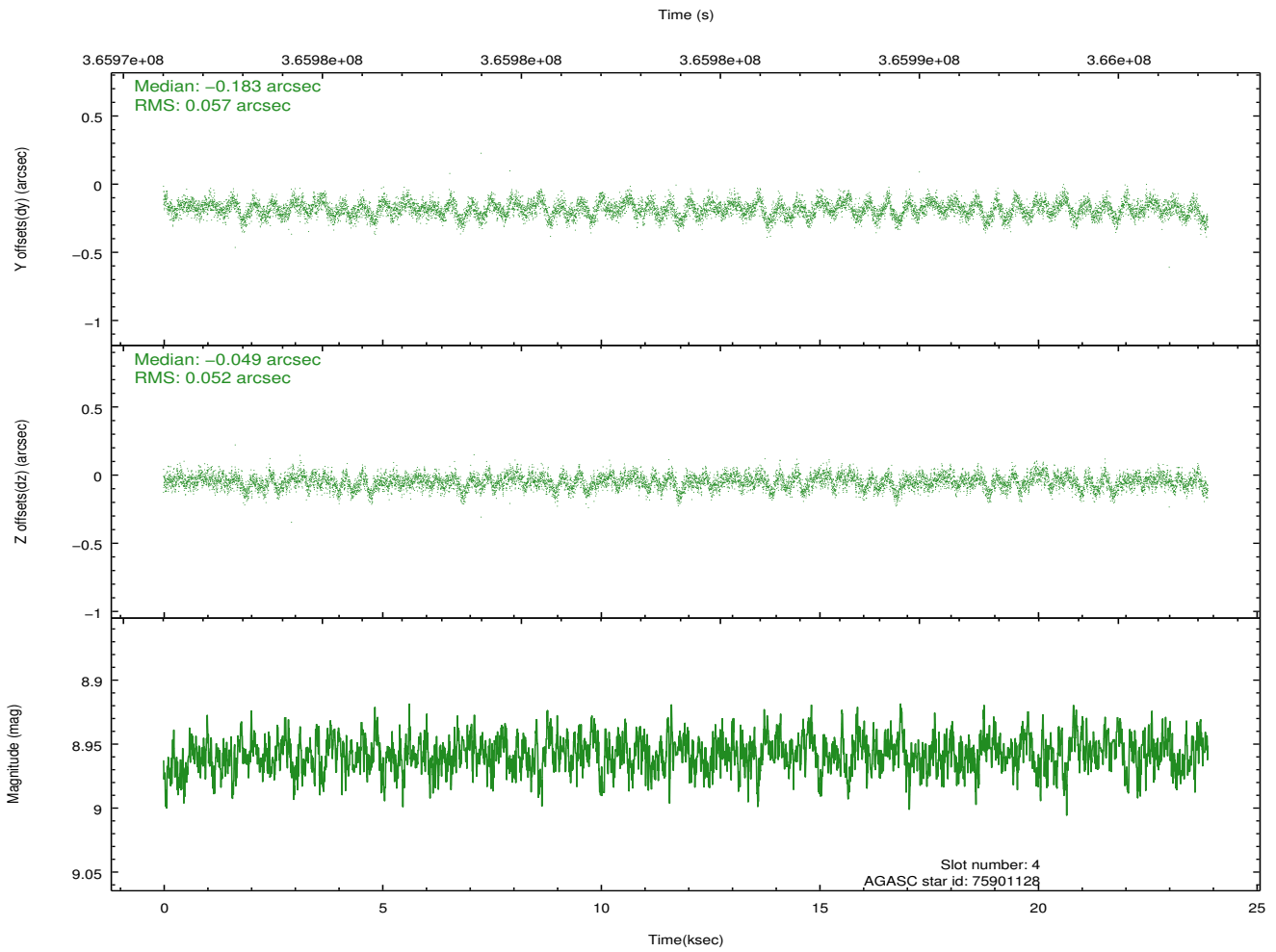
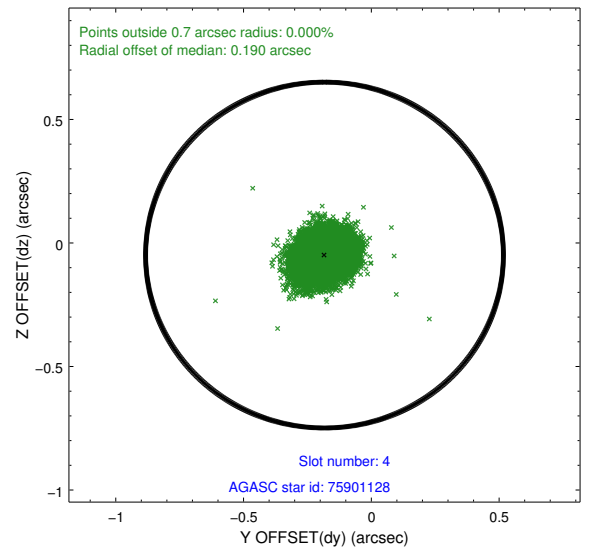
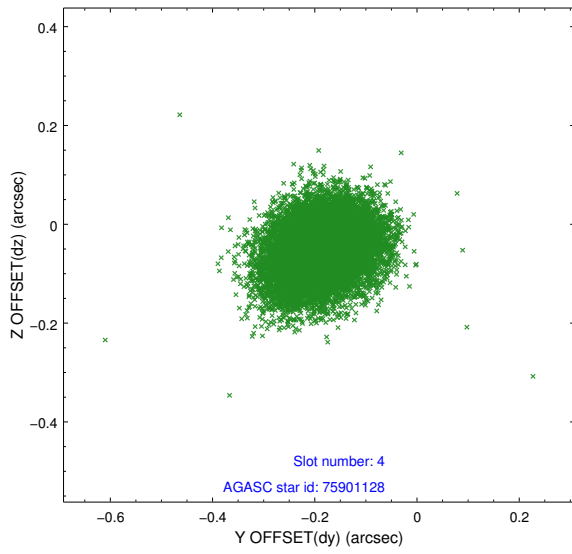
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.12	5827	0.102	-0.041	0.006	0.011	0.000000	0.000000	927.66	-960.66
1	FID	ACIS-I-5	7.11	5827	-0.219	0.106	0.006	0.011	0.000000	0.000000	-1820.71	936.87
2	FID	ACIS-I-6	7.12	5826	0.026	0.005	0.006	0.010	0.000000	0.000000	392.96	1581.44
3	GUIDE	75893600	7.86	11652	-0.124	-0.424	0.066	0.105	347.408770	3.241579	-254.06	2277.30
4	GUIDE	75901128	8.96	11643	-0.183	-0.049	0.081	0.132	347.412072	3.788418	1368.78	1163.83
5	GUIDE	76027016	8.19	11649	0.074	0.055	0.087	0.128	348.150962	3.617958	-628.31	-690.60
6	GUIDE	76034456	8.77	11642	0.089	0.203	0.082	0.134	348.517232	3.310019	-2283.20	-1159.58
7	GUIDE	76036656	9.02	11640	0.144	0.223	0.072	0.117	348.499744	3.446198	-1841.88	-1382.21

## 2.4 Star Slots

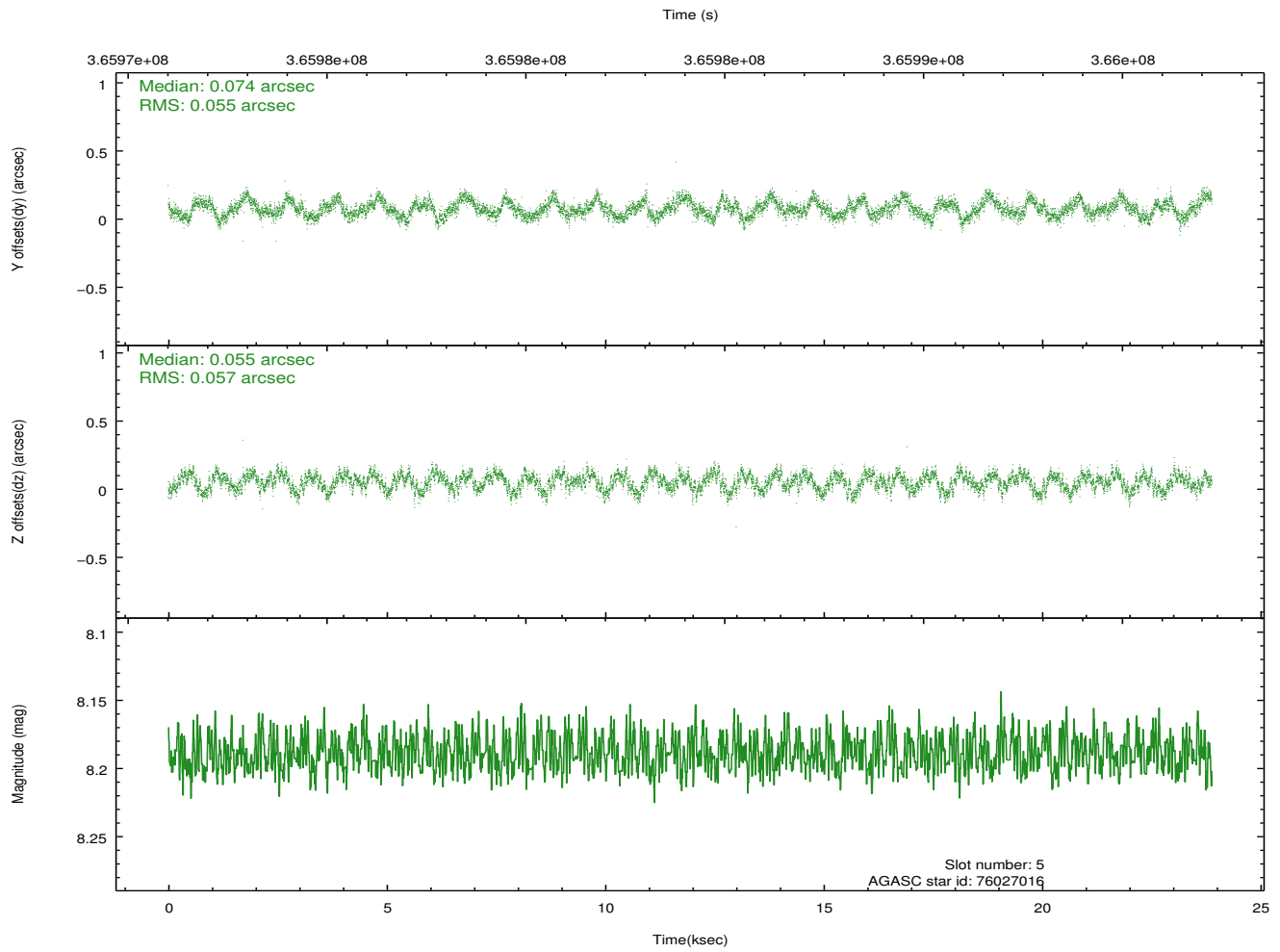
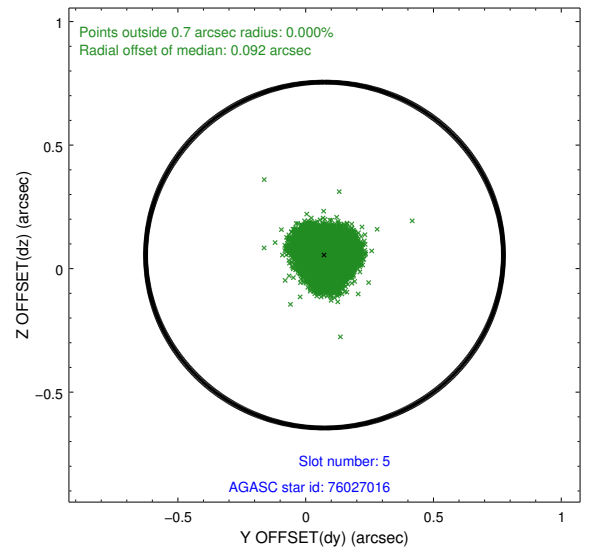
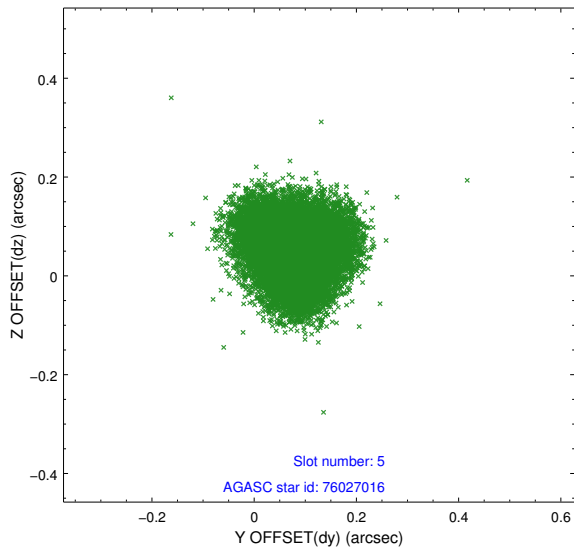
### 2.4.1 Slot 3



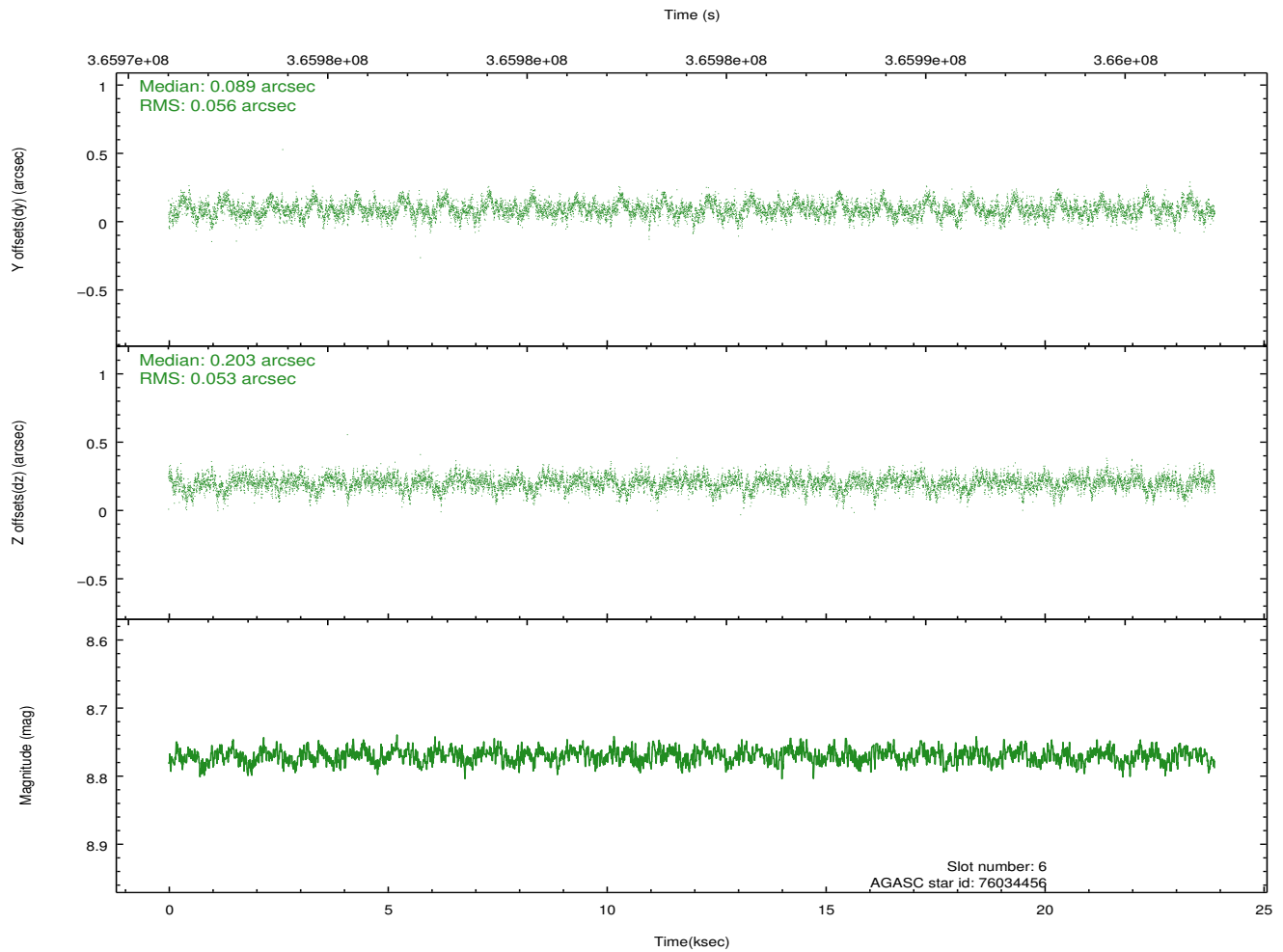
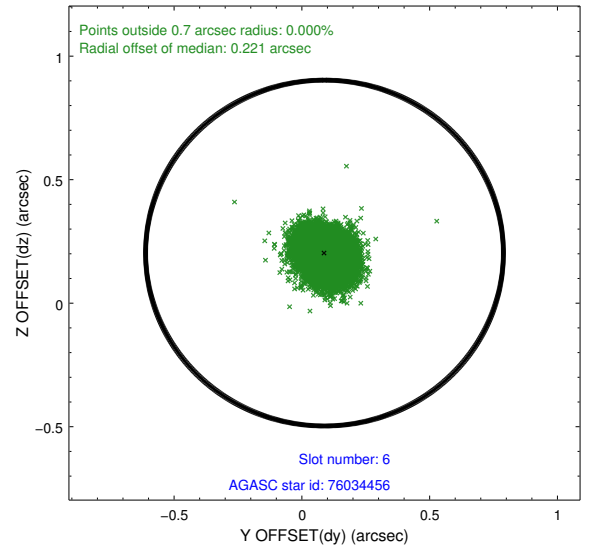
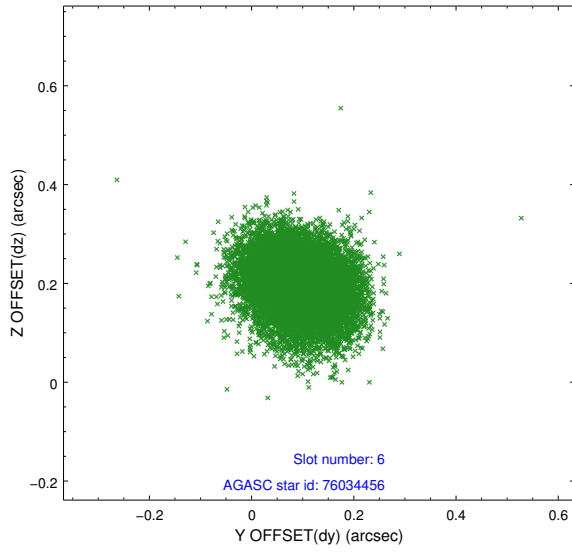
## 2.4.2 Slot 4



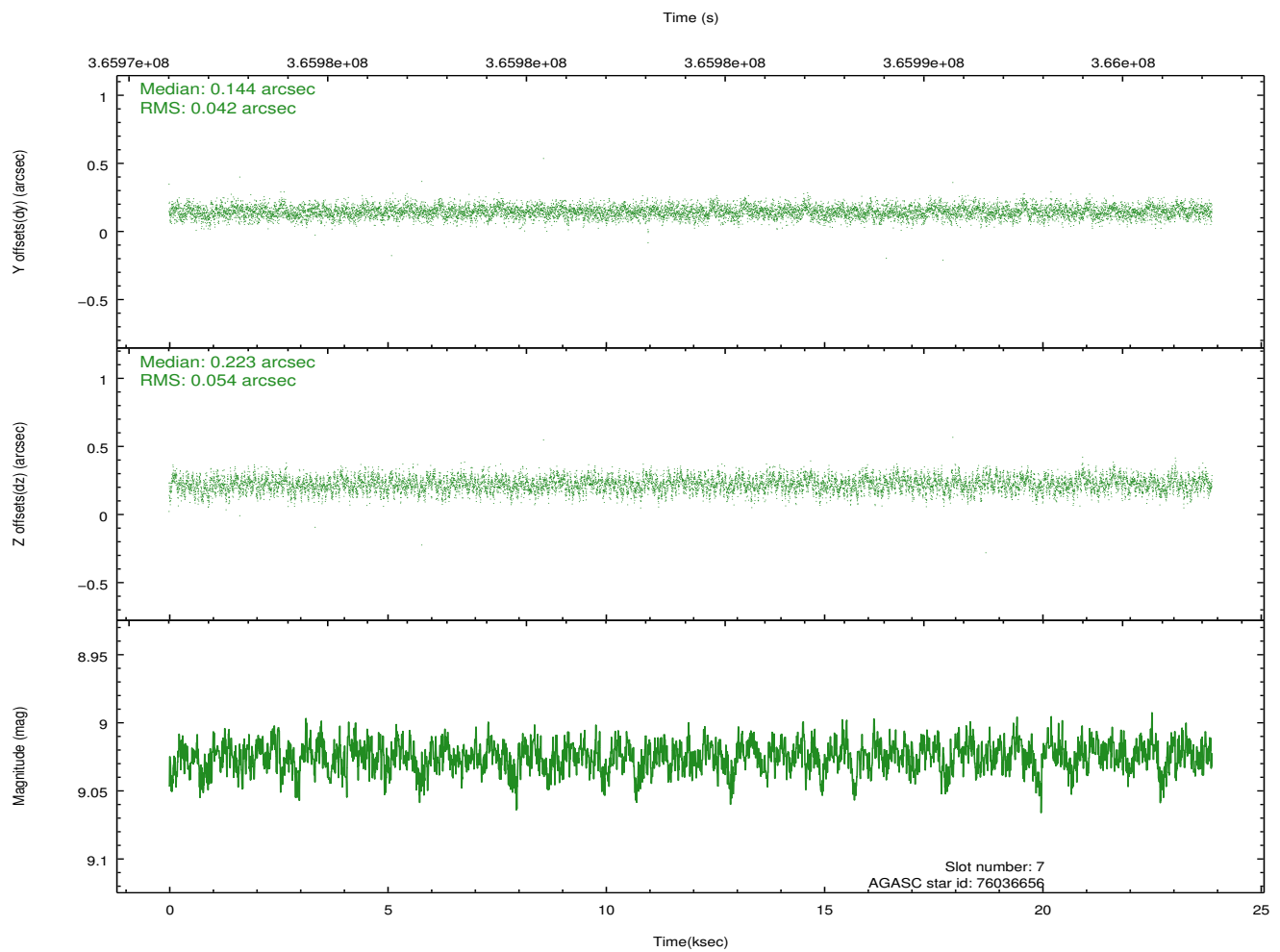
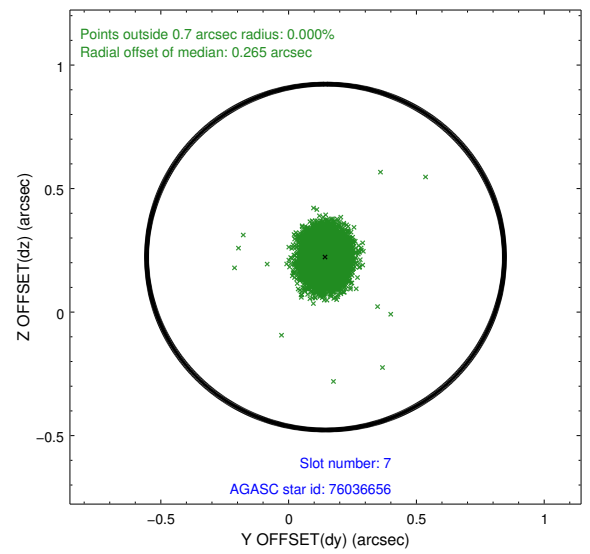
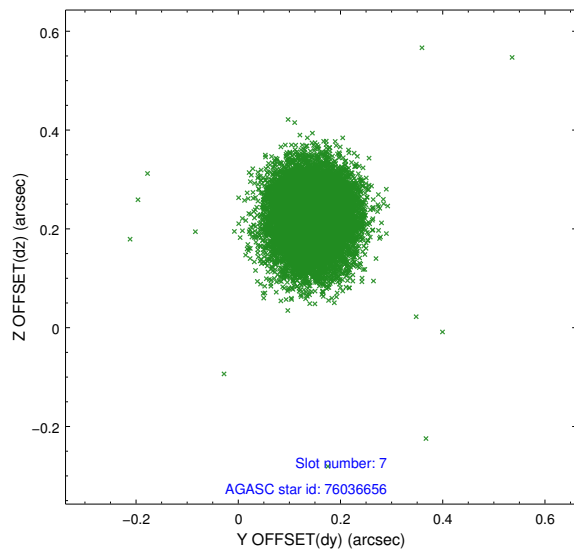
### 2.4.3 Slot 5



## 2.4.4 Slot 6

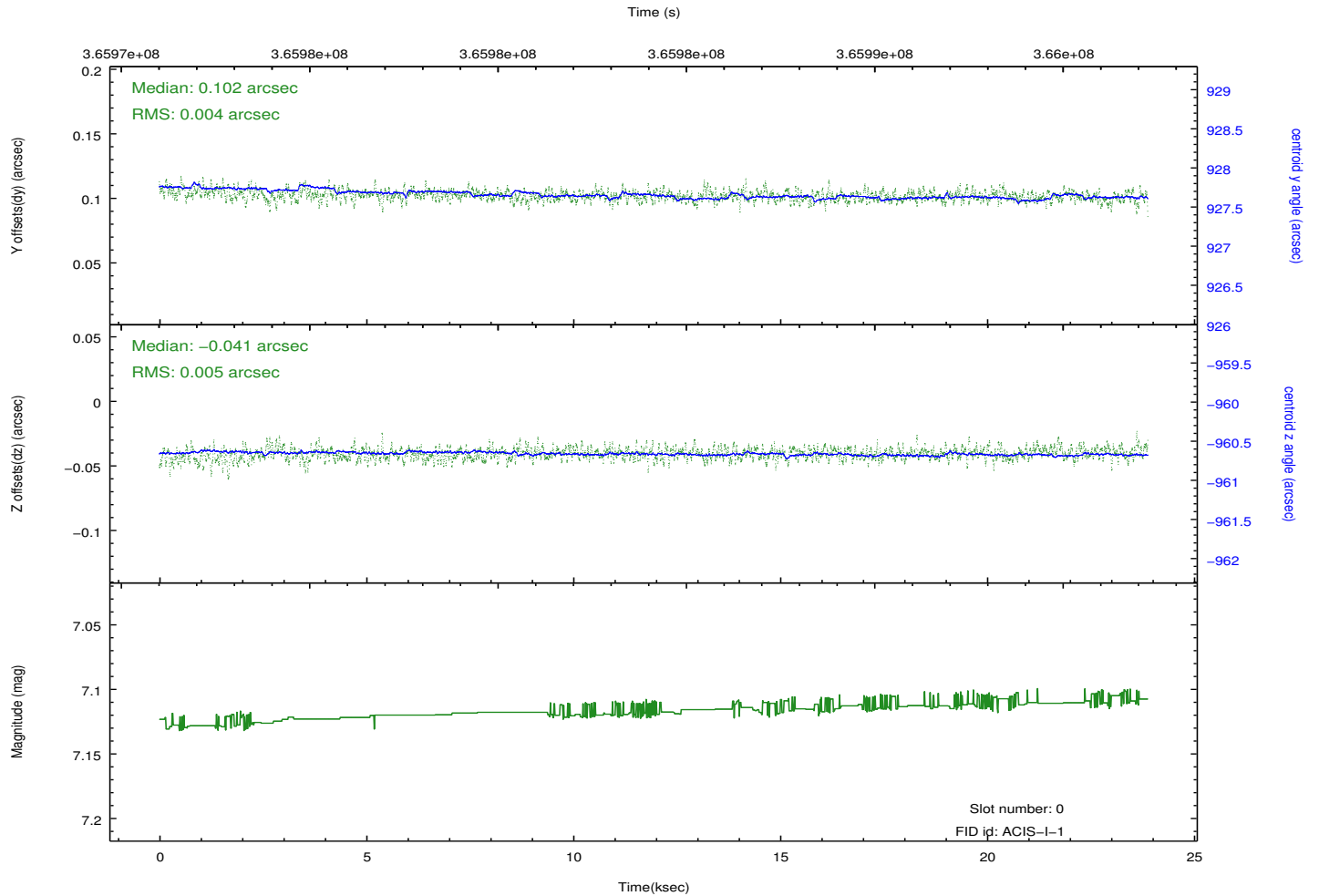
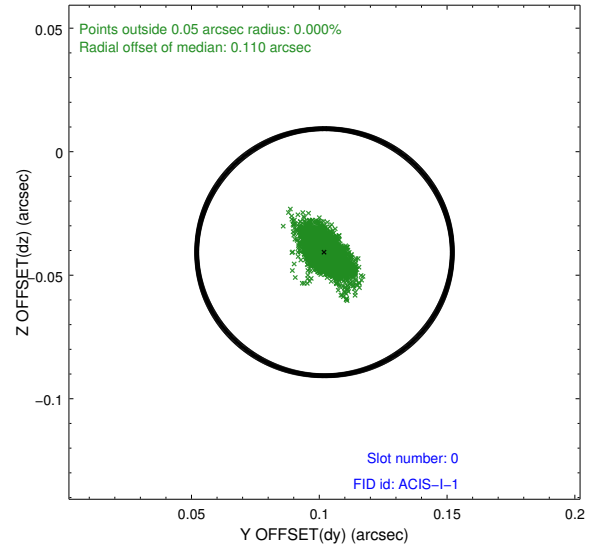
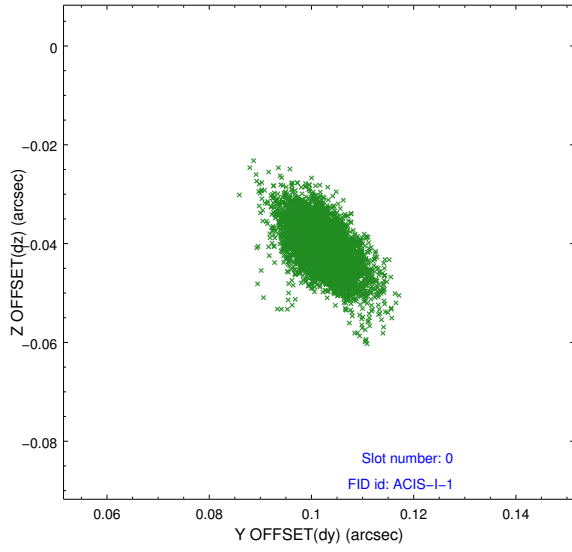


## 2.4.5 Slot 7

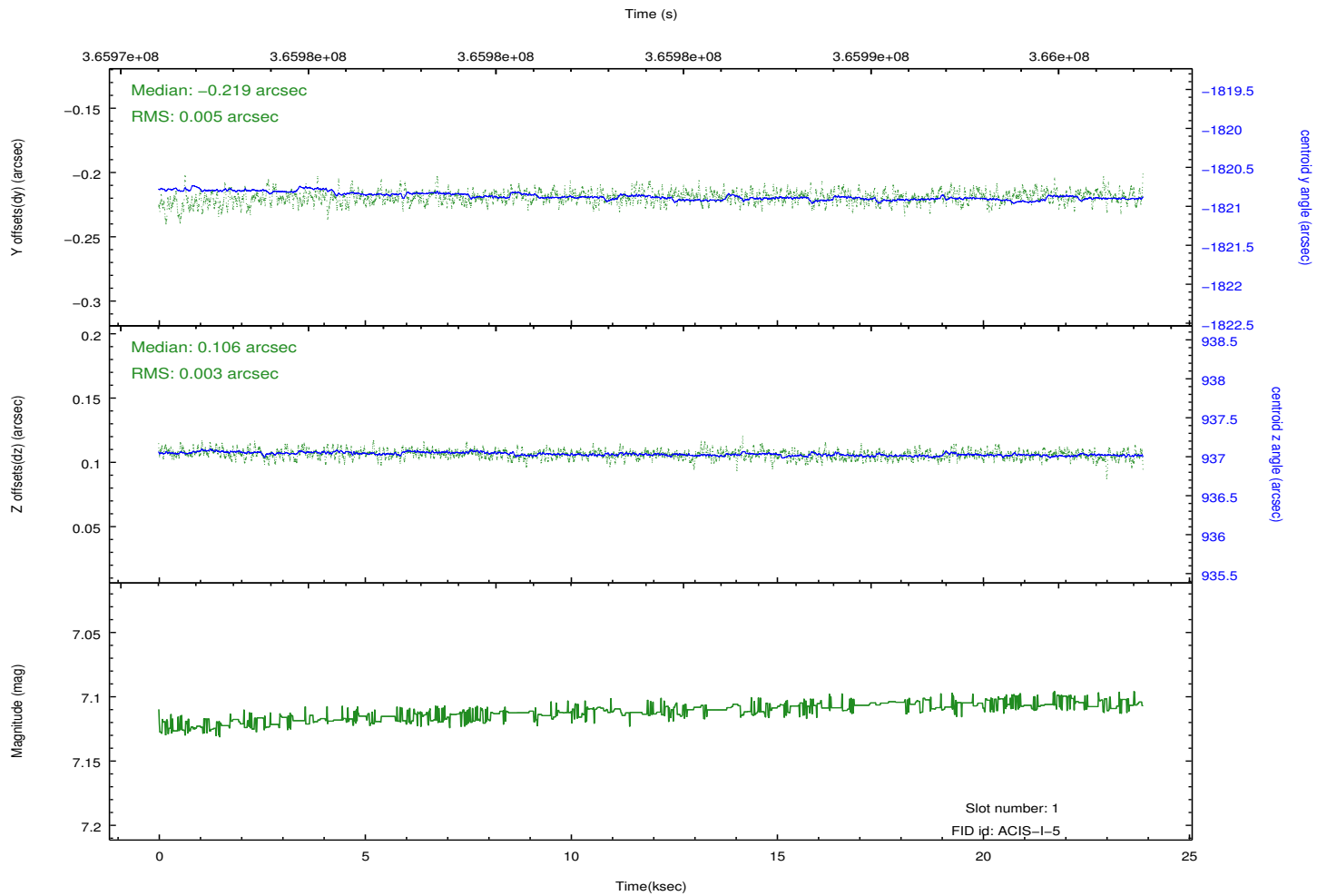
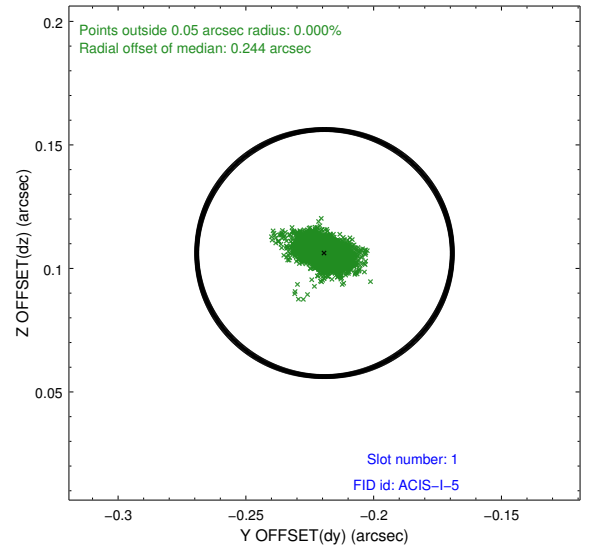
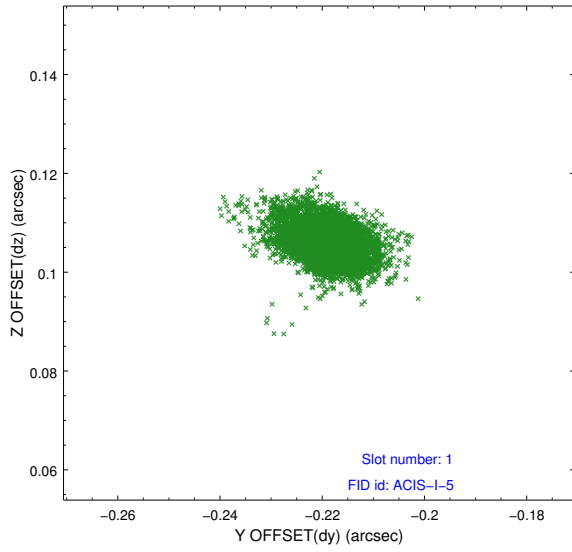


## 2.5 FID Slots

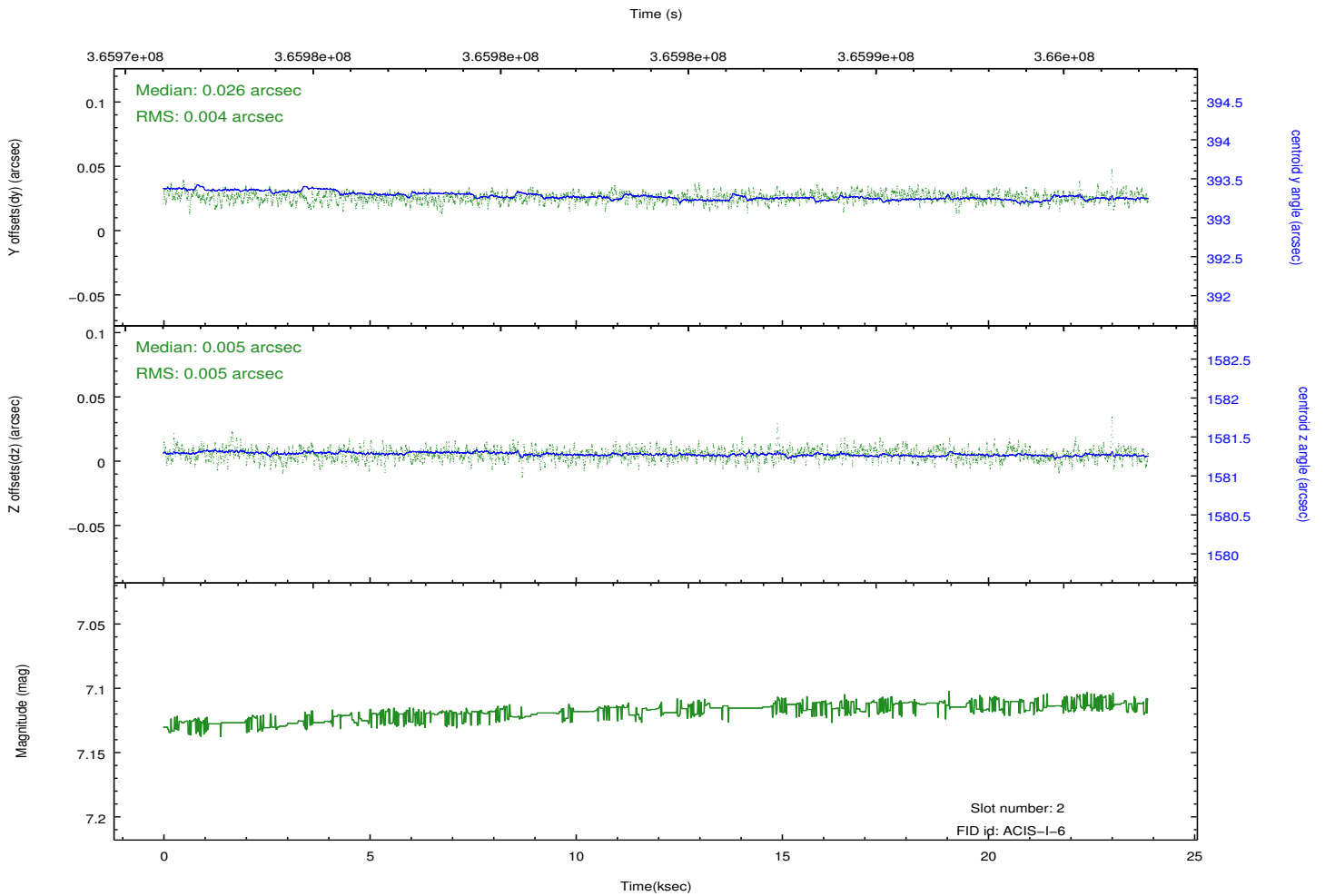
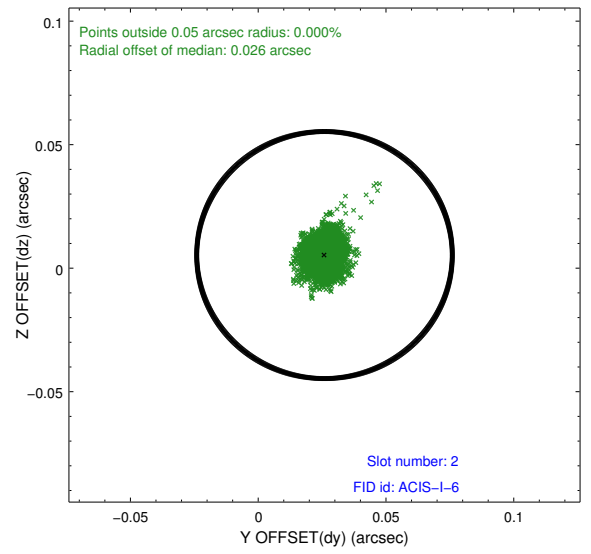
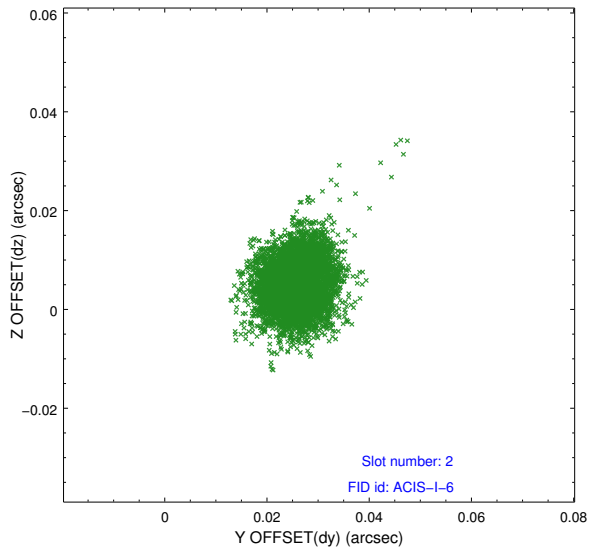
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.06.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.960458198965

## A.2 Comments