

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 7160 - L2 Version 2  
Chandra X-Ray Center

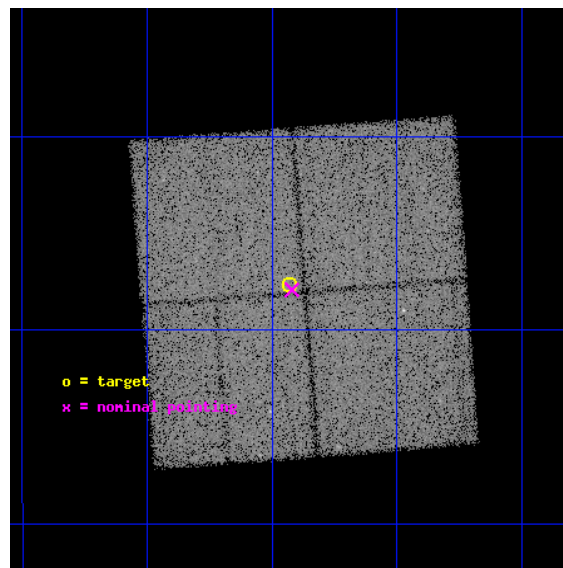
L2 Processing Date : Apr 12 2012

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# 1 Front

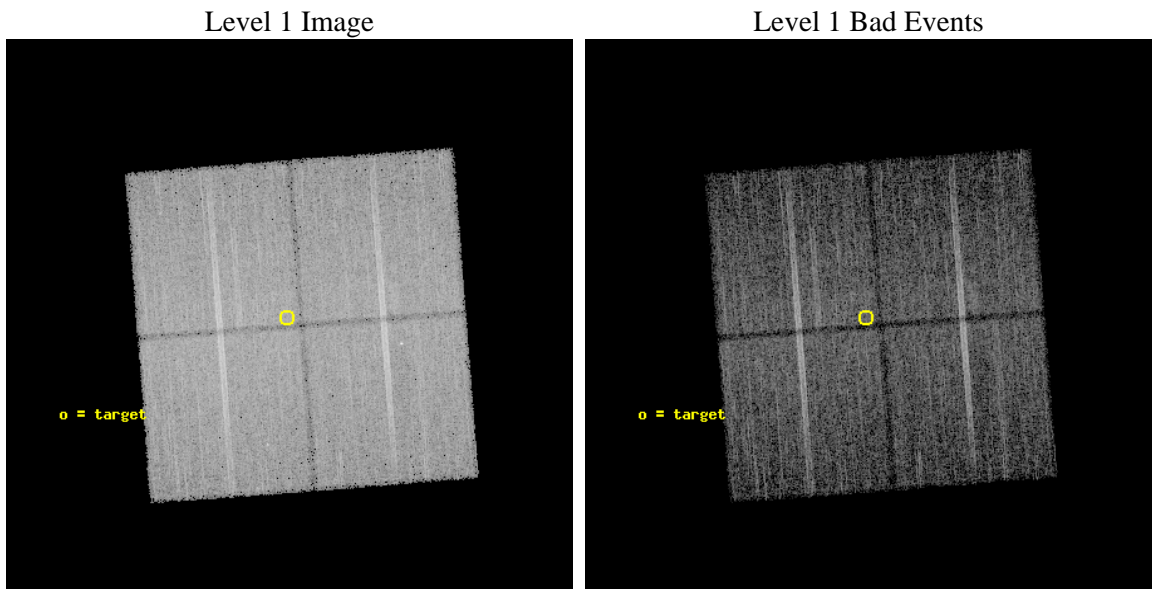
seq_num	600598	Sequence number
obs_id	7160	Observation id
title	Galactic Bulge Latitude Survey	Proposal title
observer	Professor Johnathan Grindlay	Principal investigator
object	GBW4	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.4825	Observer's specified target RA [deg]
dec_targ	-29.294611	Observer's specified target Dec [deg]
ra_nom	267.48009702765	Nominal RA [deg]
dec_nom	-29.298712565323	Nominal Dec [deg]
roll_nom	265.6005134069	Nominal Roll [deg]
revision	2	Processing version of data
ontime	14368.459140241	Sum of GTIs [s]
livetime	14180.724643668	Livetime [s]
ontime0	14368.459120274	Sum of GTIs [s]
ontime1	14368.459140241	Sum of GTIs [s]
ontime2	14371.600110531	Sum of GTIs [s]
ontime3	14368.459140241	Sum of GTIs [s]
l2events	157118	Number of level 2 events



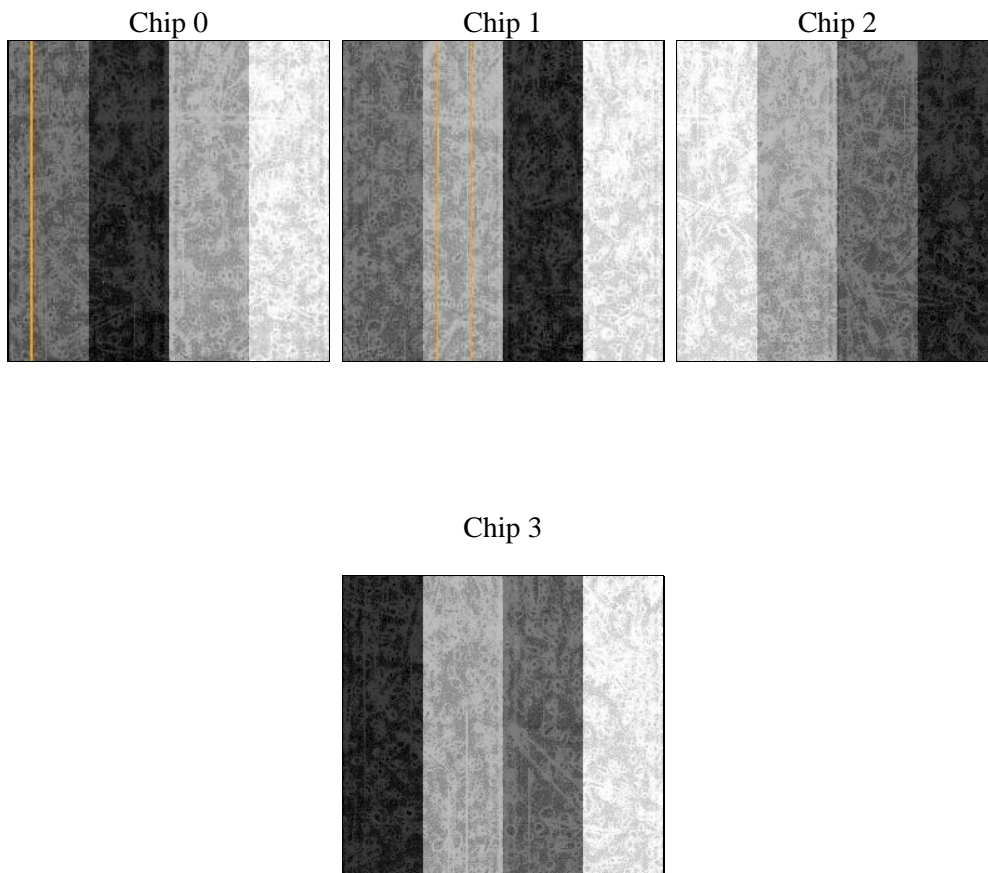
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	14368.459140241	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	14368.459120274	Sum of GTIs [s]
date	2012-04-12T09:09:18	Date and time of file creation	ontime1	14368.459140241	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	14371.600110531	Sum of GTIs [s]
			ontime3	14368.459140241	Sum of GTIs [s]
			l1events	660474	Number of level 1 events

### 2.1.4 Events

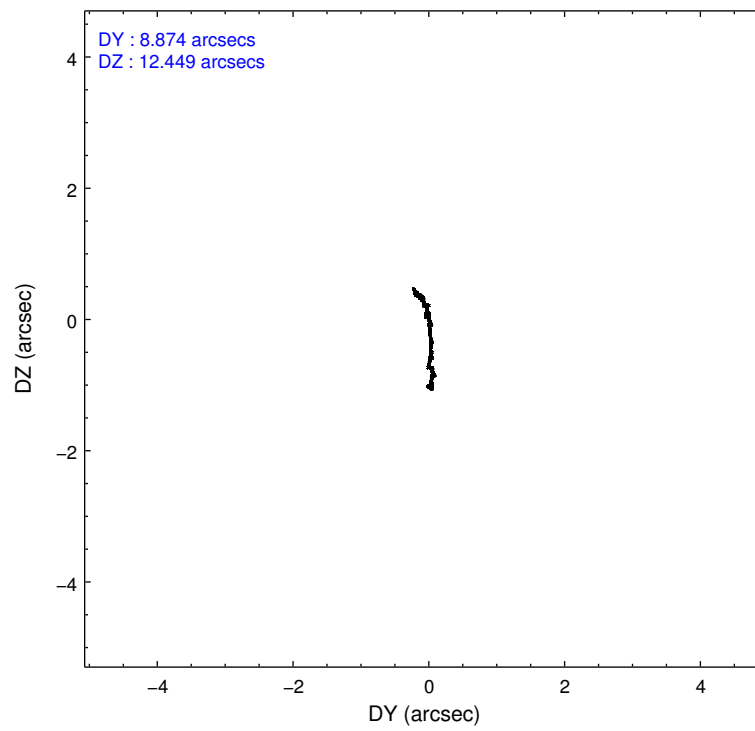
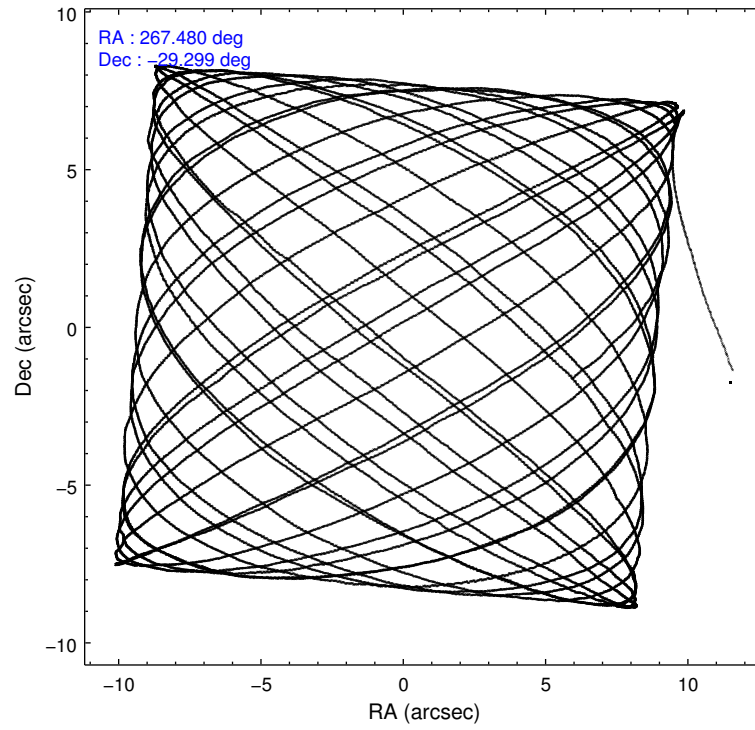
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	159328	160105	171173	169868
rejected events	116677	116301	127606	127089
rejected %	73%	72%	74%	74%

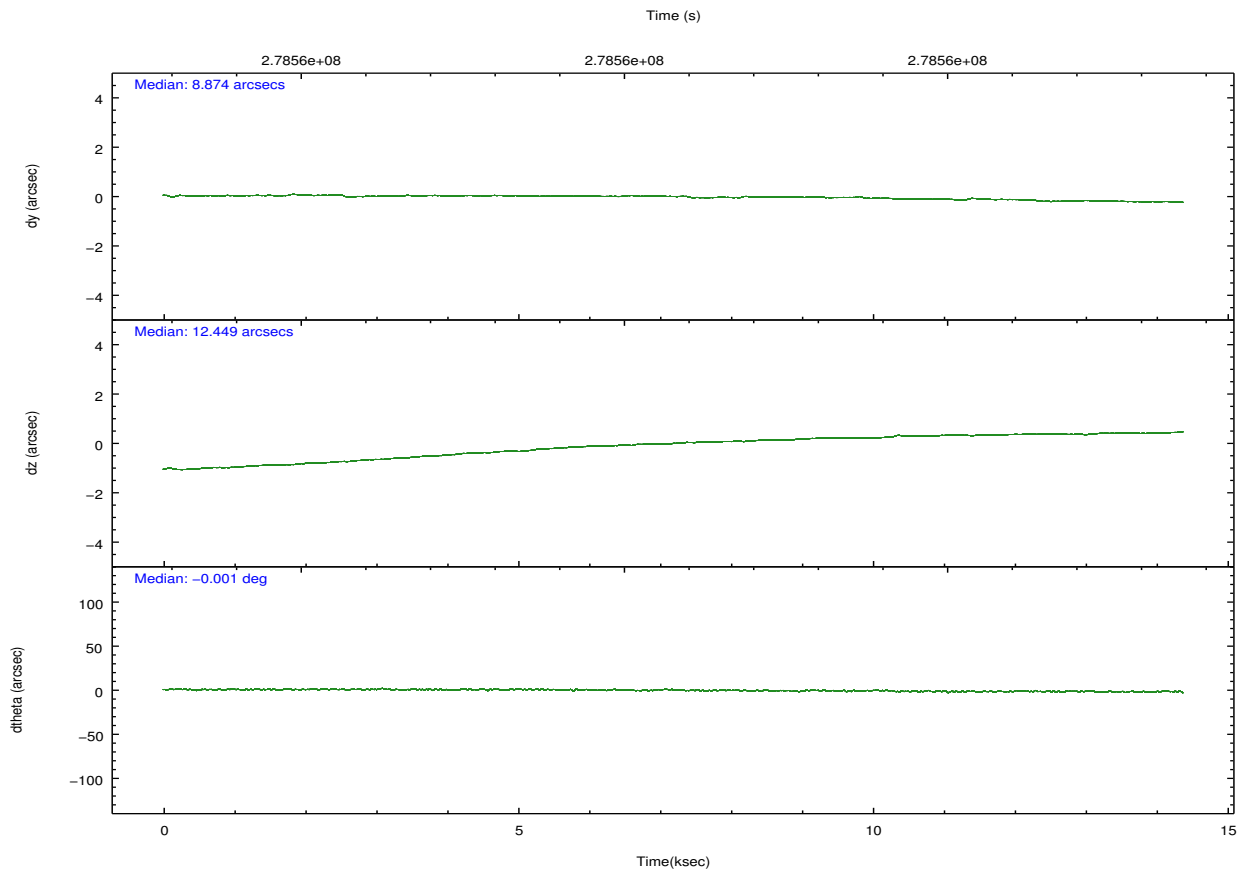
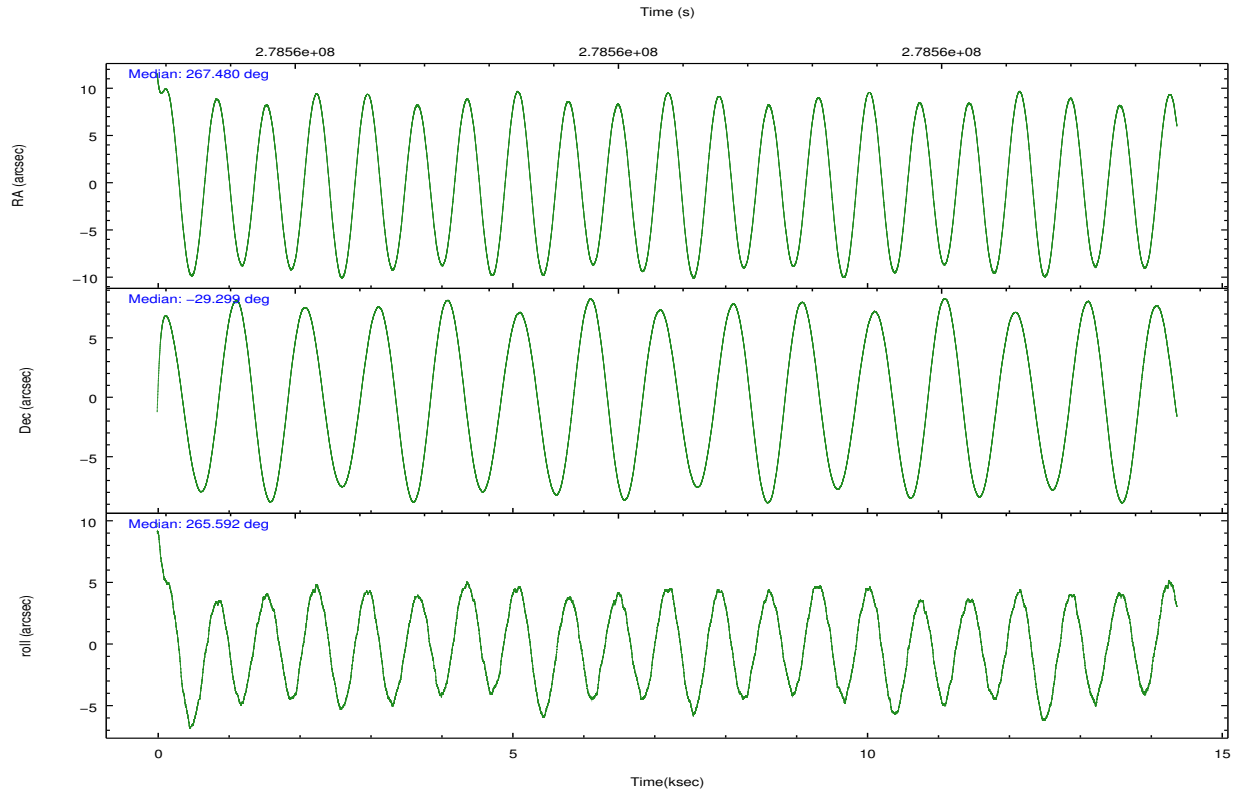
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	30346	29166	31942	31342
	19%	18%	18%	18%
grade 1 events	203	265	264	354
	0%	0%	0%	0%
grade 2 events	7122	8904	6686	6471
	4%	5%	3%	3%
grade 3 events	2732	2867	2614	2819
	1%	1%	1%	1%
grade 4 events	2636	2845	2711	2815
	1%	1%	1%	1%
grade 5 events	5548	6102	5179	6404
	3%	3%	3%	3%
grade 6 events	4694	5610	4400	4837
	2%	3%	2%	2%
grade 7 events	106047	104346	117377	114826
	66%	65%	68%	67%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	267.466379	267.4800970276546	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.274084	-29.29871256532276	Alternating exposures requested	N	N
[deg] Pointing Roll	265.385110	265.6005134068984	[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	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	278553730.184000	278552481.91024			
Observation start date	2006-10-30T00:01:05	2006-10-29T23:41:21			
[s] Observation end time (MET)	278567930.184000	278568063.96097			
Observation end date	2006-10-30T03:57:45	2006-10-30T04:01:03			
Read mode	TIMED	TIMED			

## 2.3 Aspect



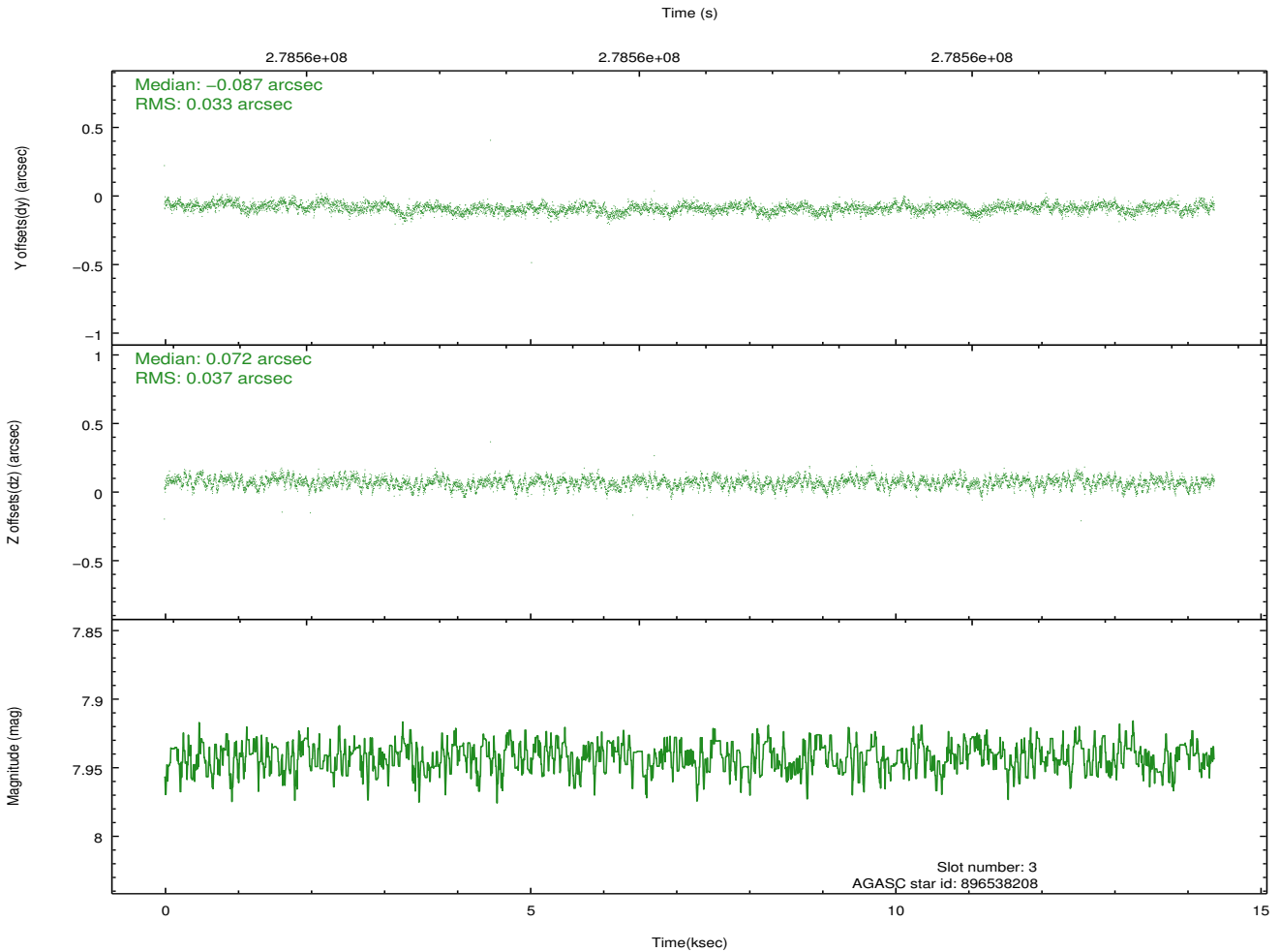
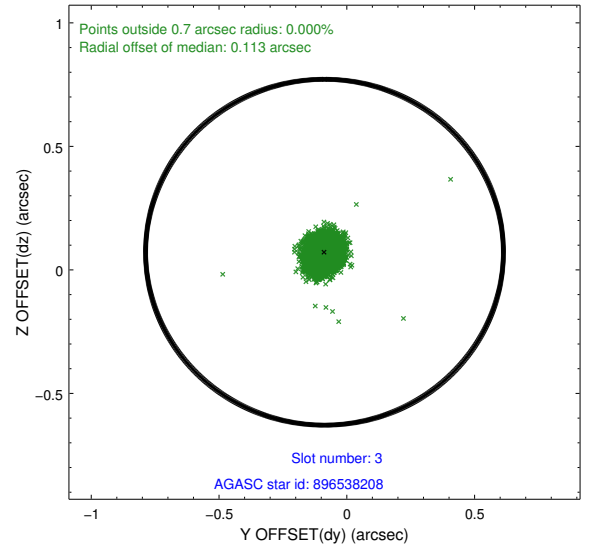
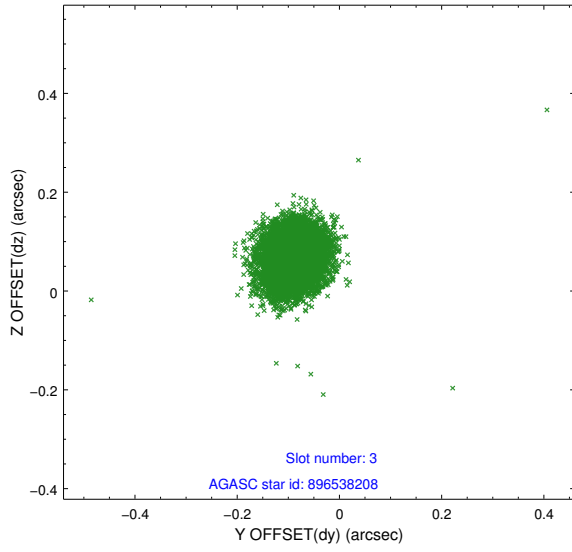


### Slot Statistics

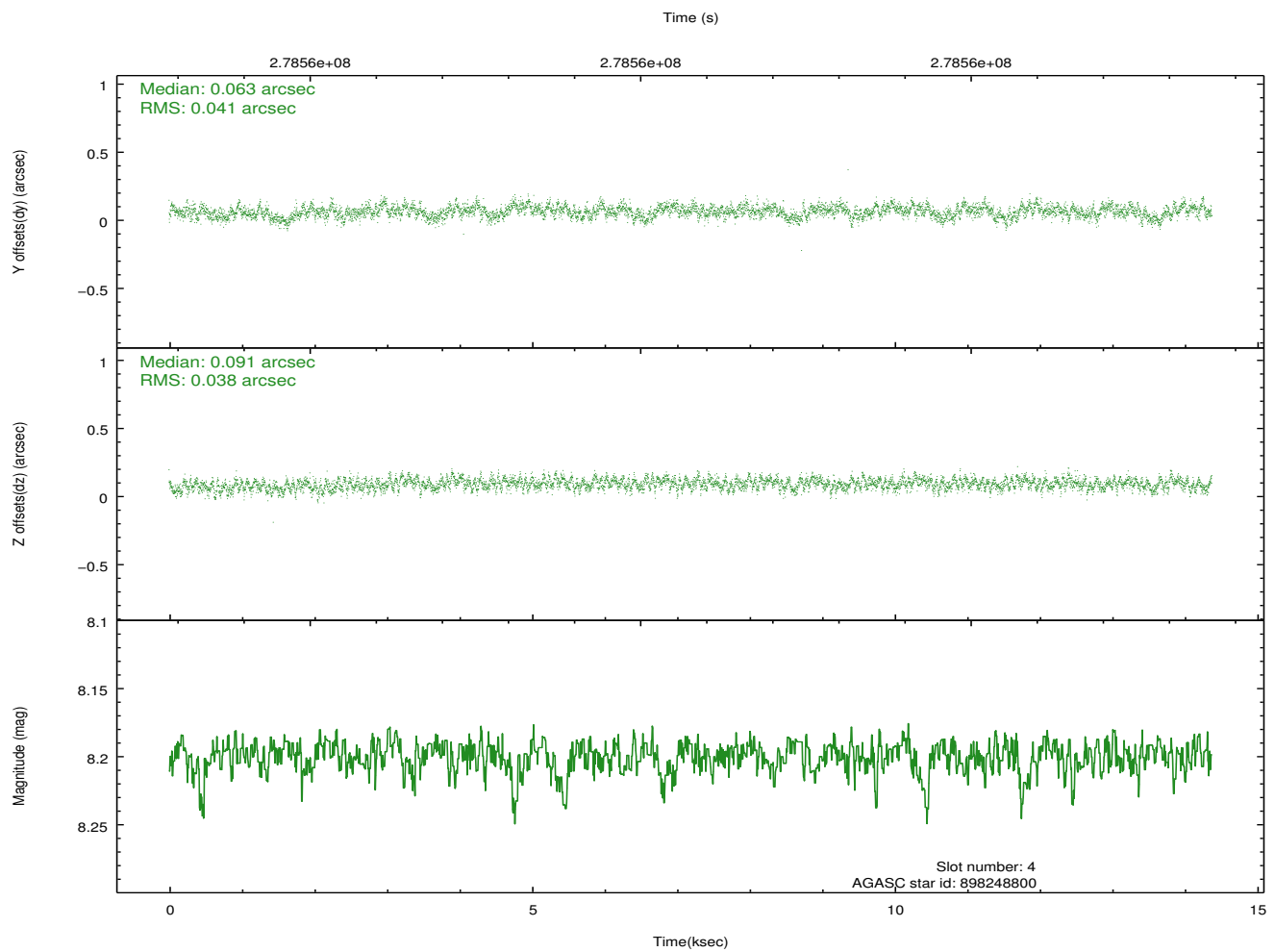
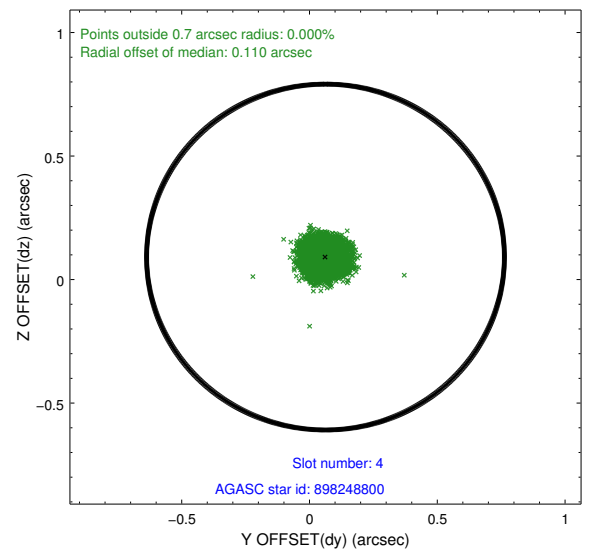
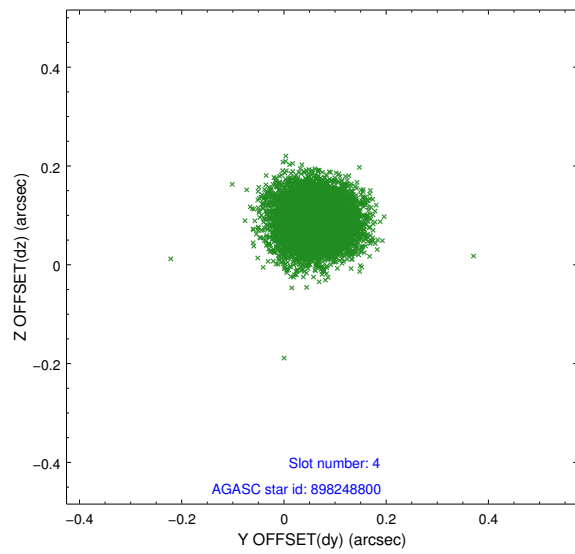
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	3507	0.064	-0.035	0.021	0.033	0.000000	0.000000	930.84	-835.89
1	FID	ACIS-I-5	7.23	3505	-0.217	0.064	0.012	0.021	0.000000	0.000000	-1817.34	1061.57
2	FID	ACIS-I-6	7.24	3506	0.062	0.038	0.016	0.025	0.000000	0.000000	396.07	1706.38
3	GUIDE	896538208	7.94	7013	-0.087	0.072	0.051	0.084	267.176969	-28.671626	-2086.72	-1085.93
4	GUIDE	898248800	8.20	7012	0.063	0.091	0.060	0.096	267.977609	-29.931731	2234.97	1780.83
5	GUIDE	898250872	7.06	7014	-0.068	-0.061	0.048	0.080	268.026303	-29.632040	1148.09	1850.74
6	GUIDE	896537776	7.56	7013	0.129	-0.069	0.063	0.102	266.655684	-29.665673	1619.06	-2413.32
7	GUIDE	896541360	7.73	7010	-0.034	-0.025	0.055	0.090	266.684478	-29.453744	851.01	-2390.72

## 2.4 Star Slots

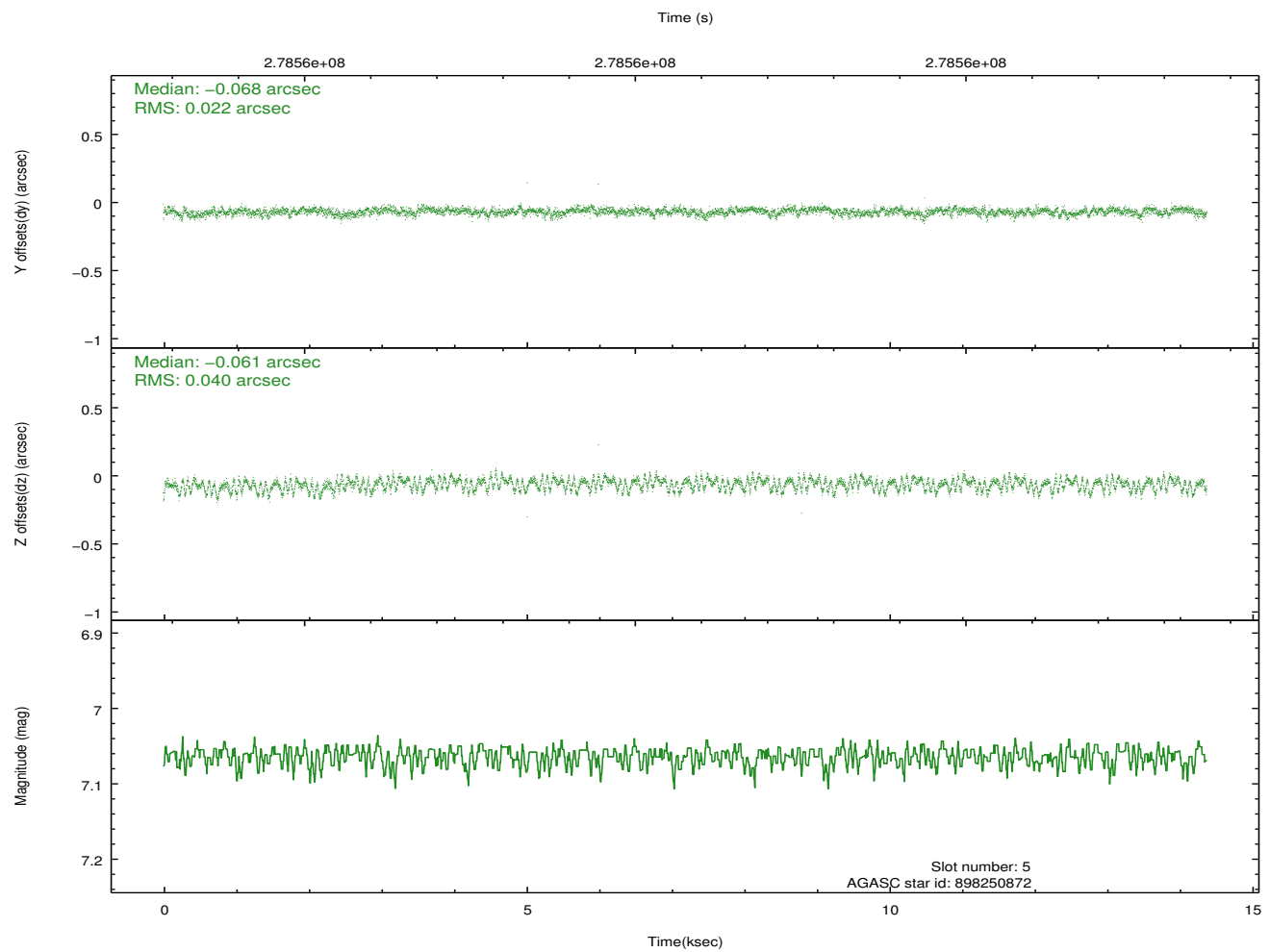
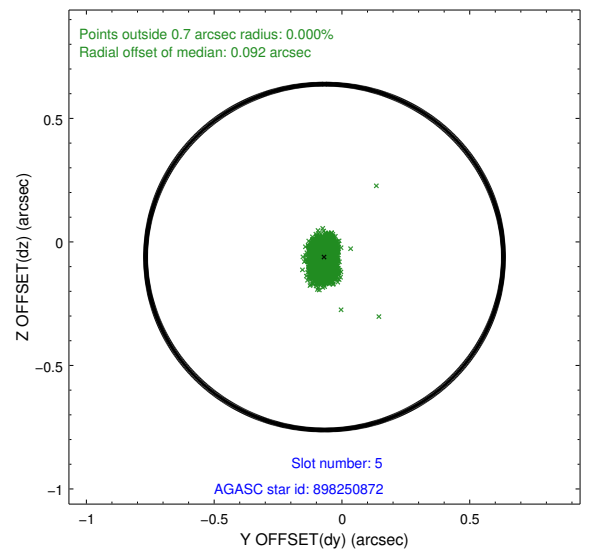
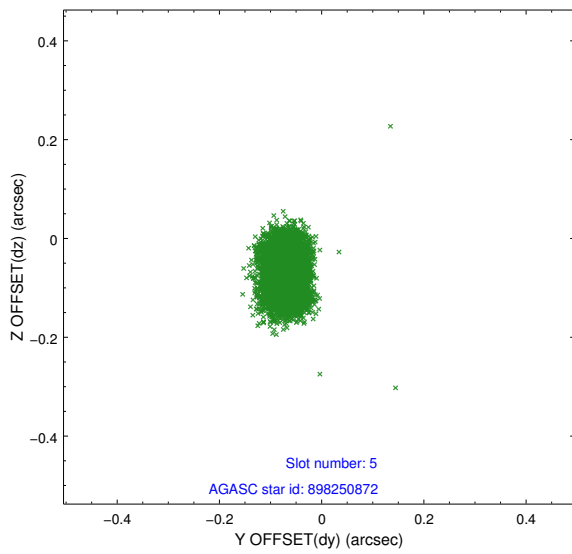
### 2.4.1 Slot 3



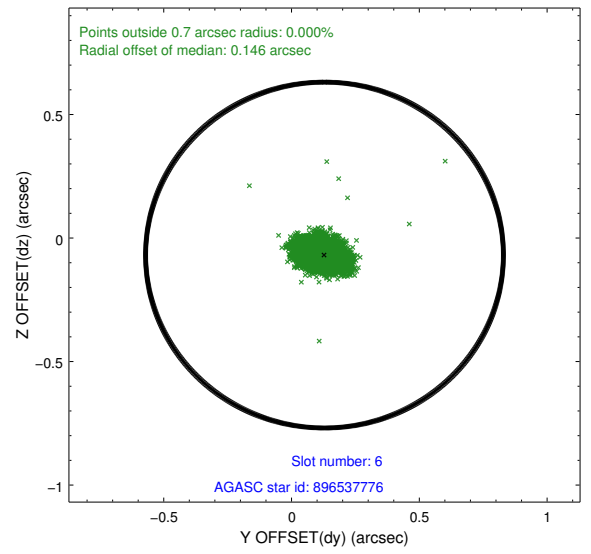
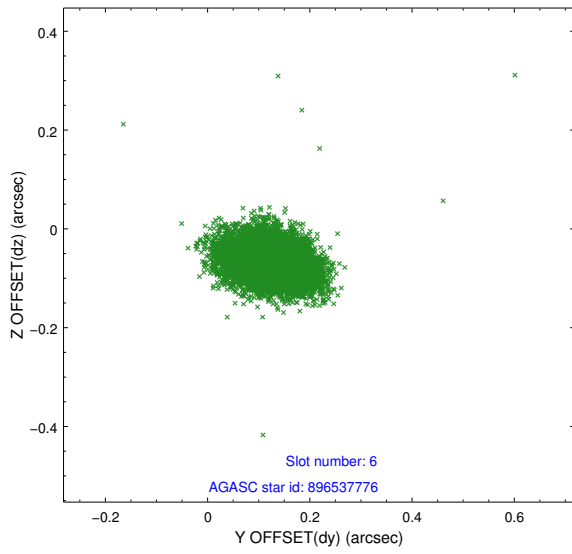
## 2.4.2 Slot 4



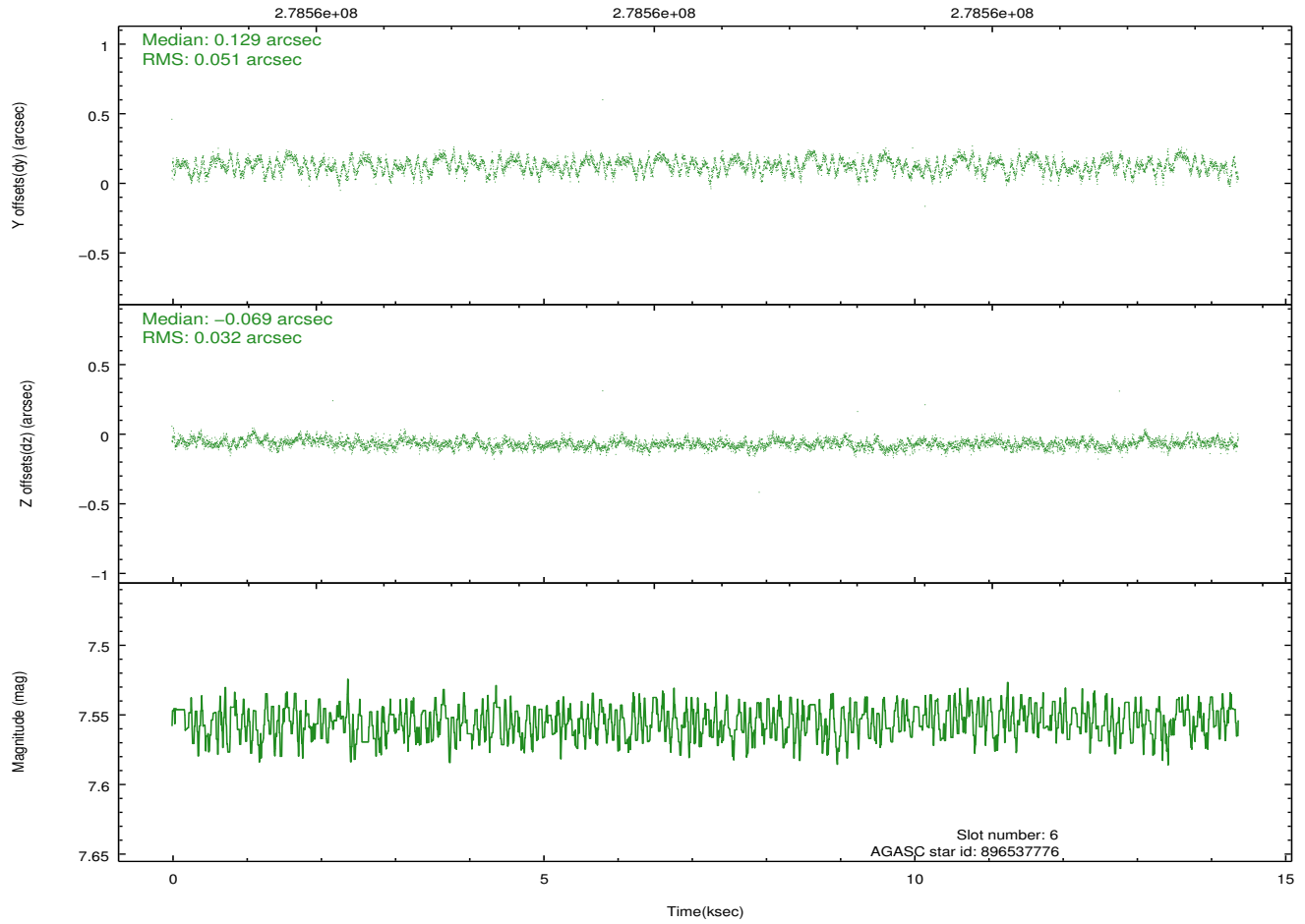
### 2.4.3 Slot 5



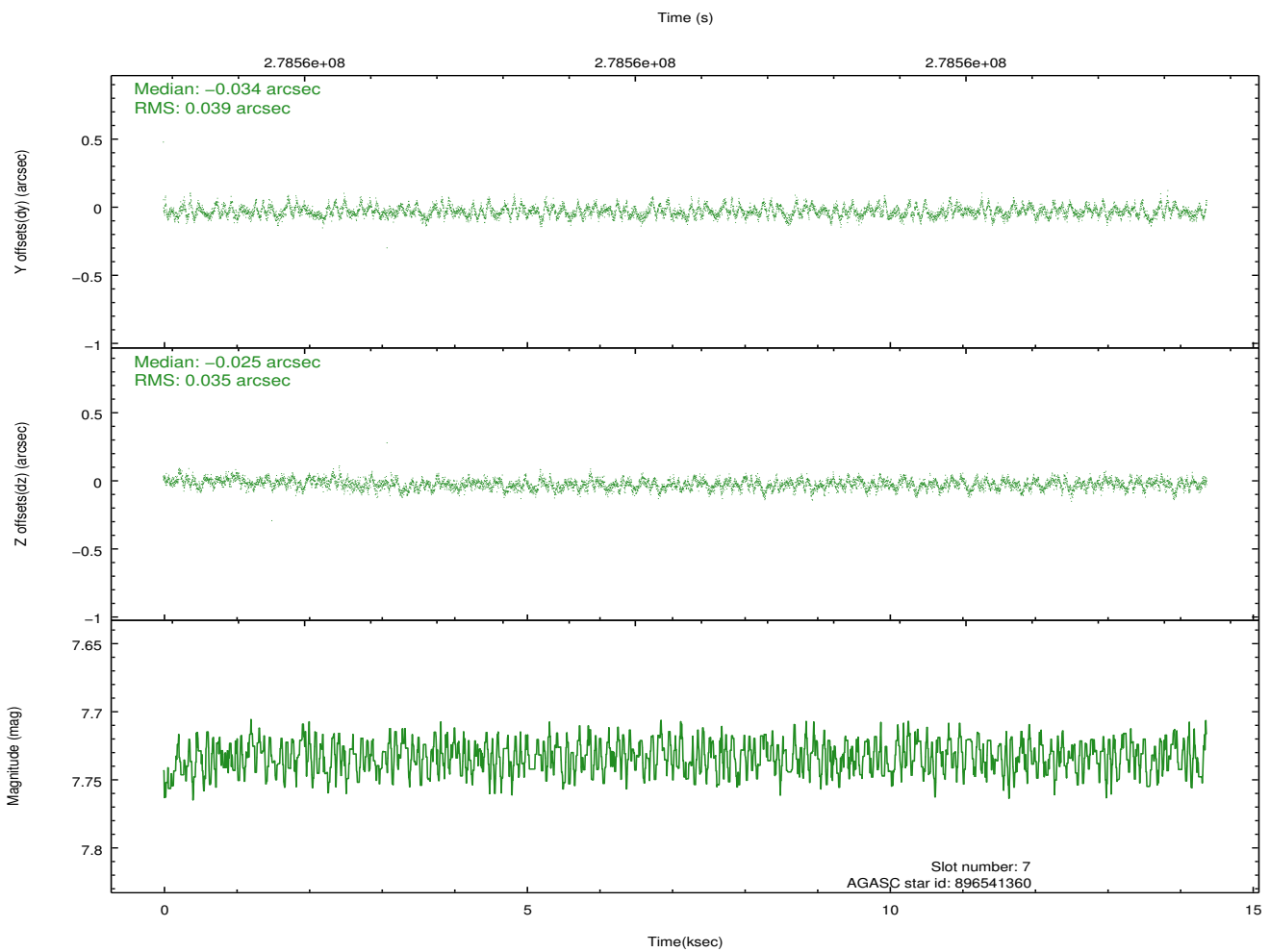
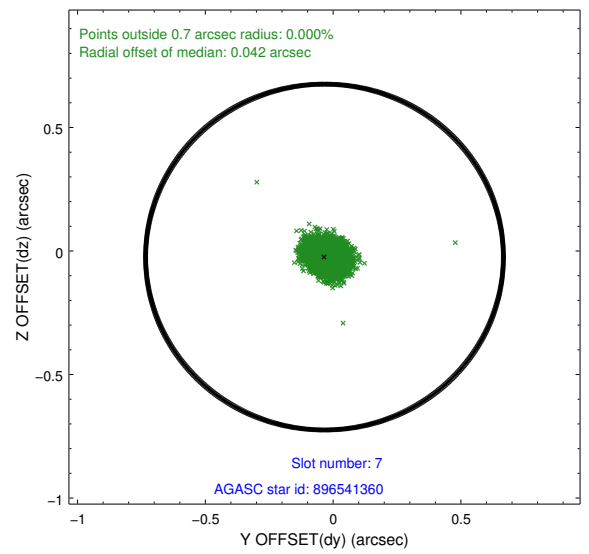
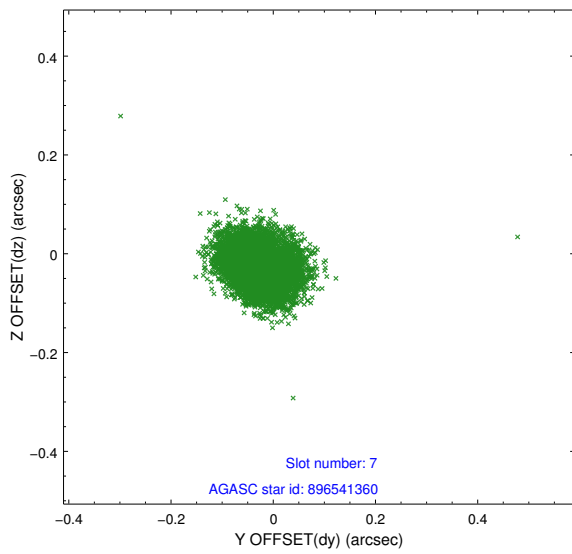
### 2.4.4 Slot 6



Time (s)

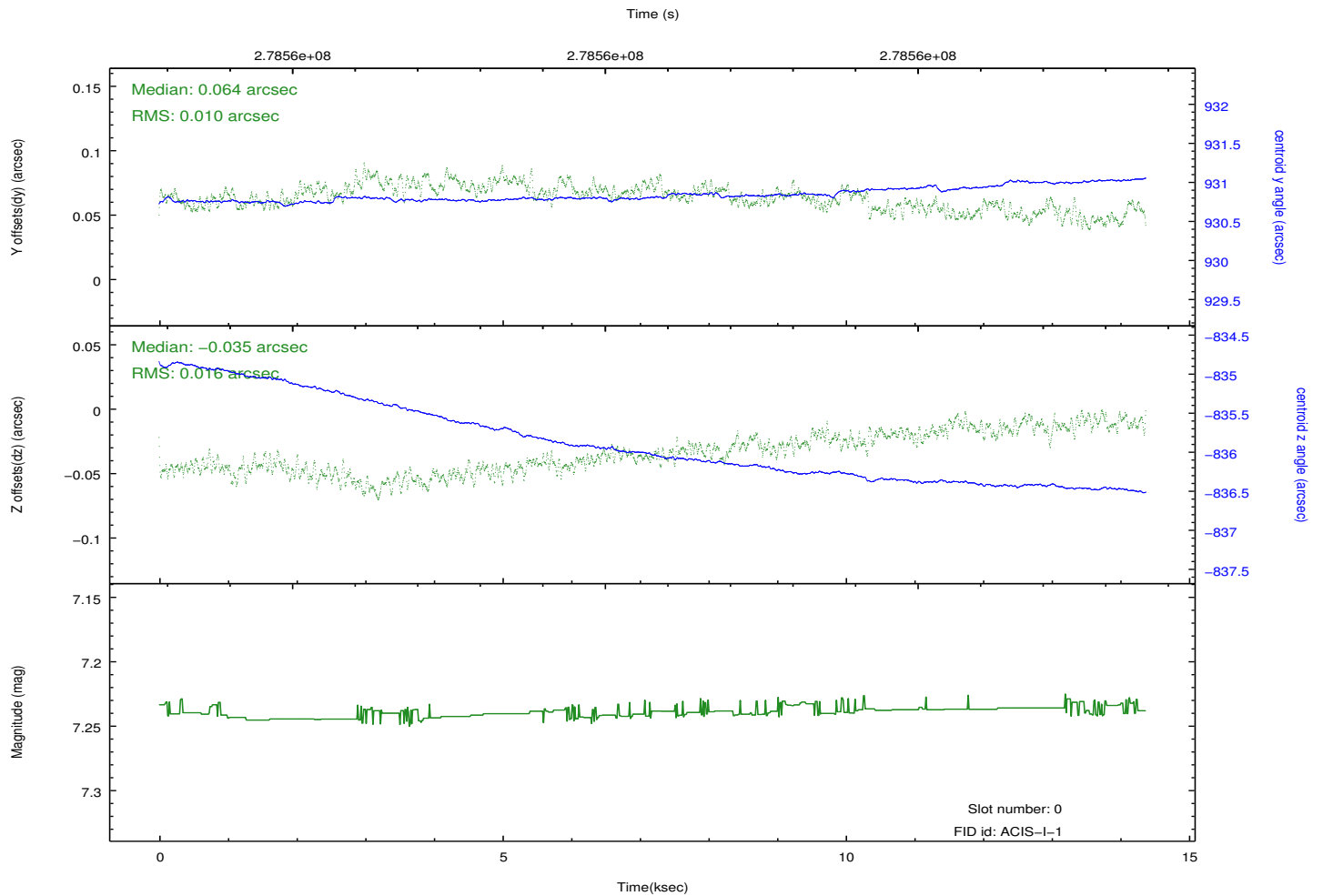
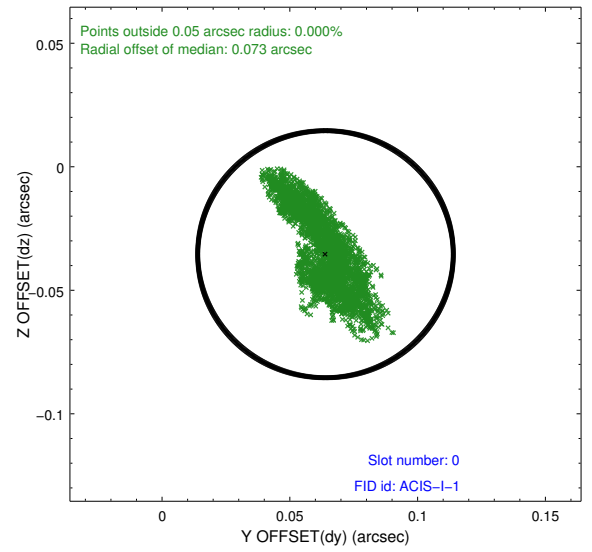
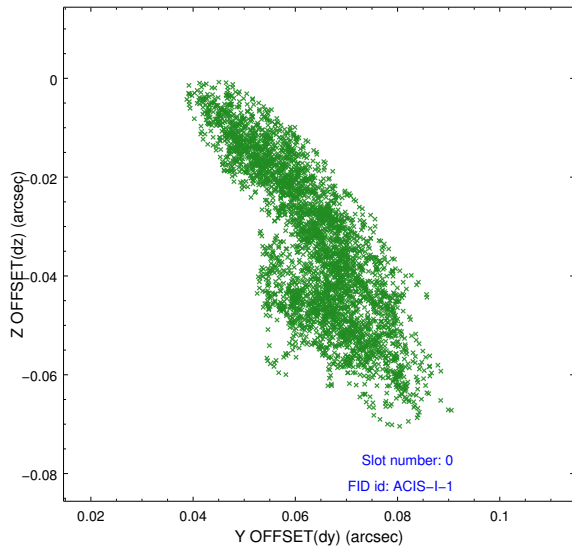


## 2.4.5 Slot 7

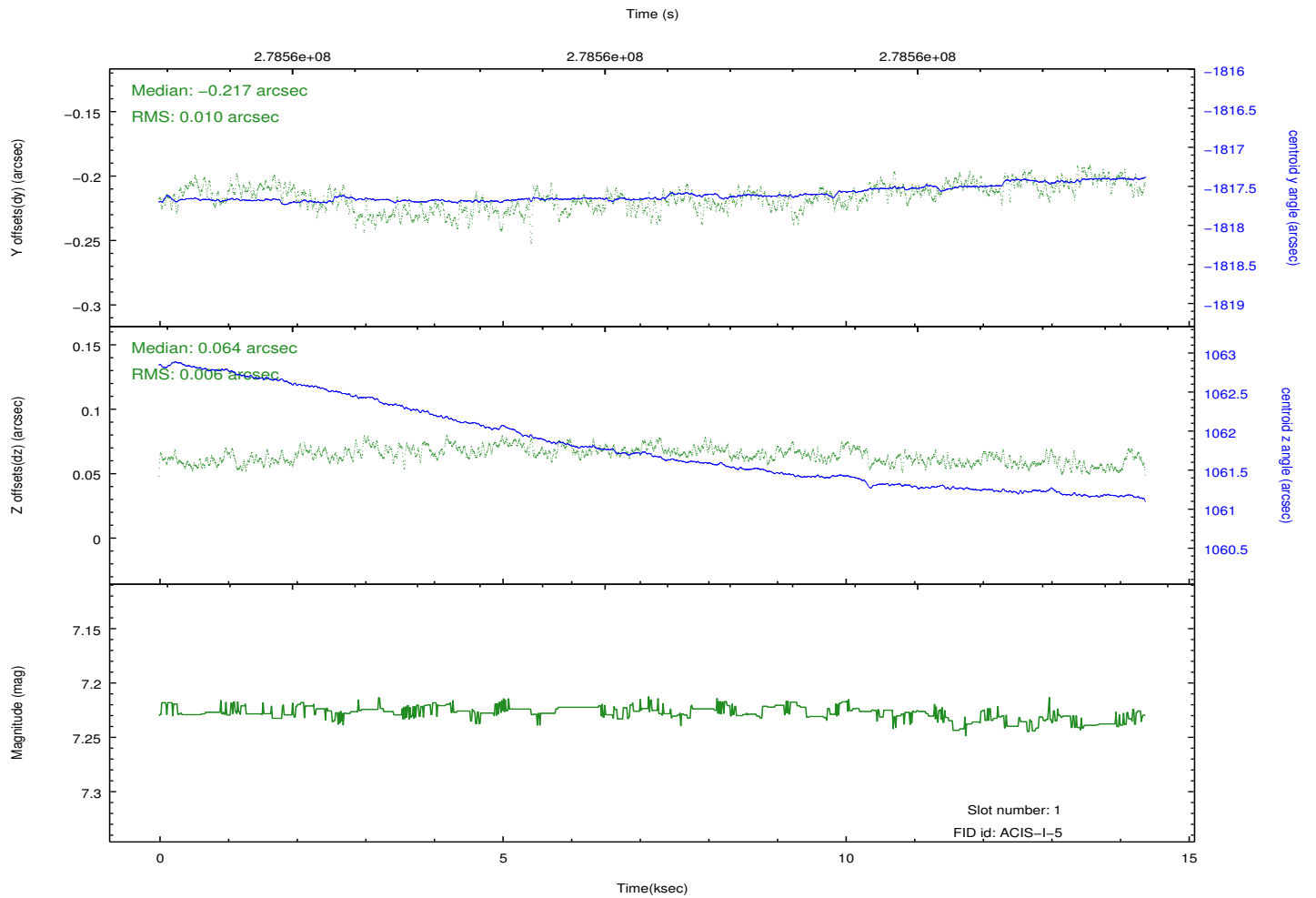
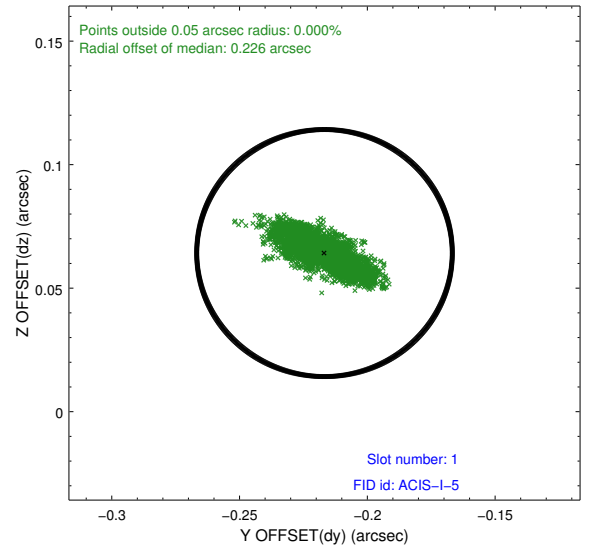
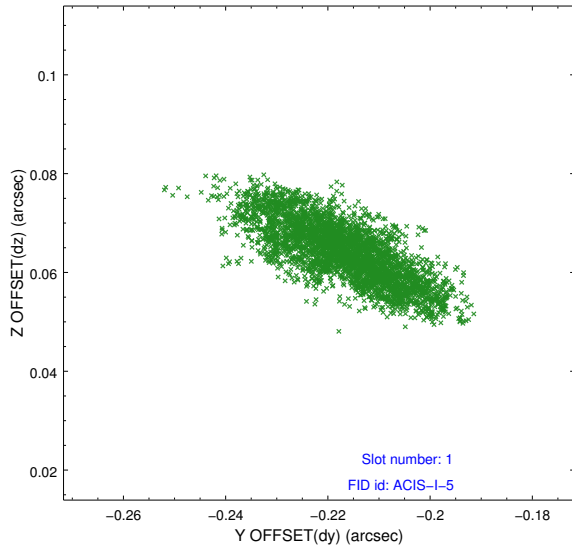


## 2.5 FID Slots

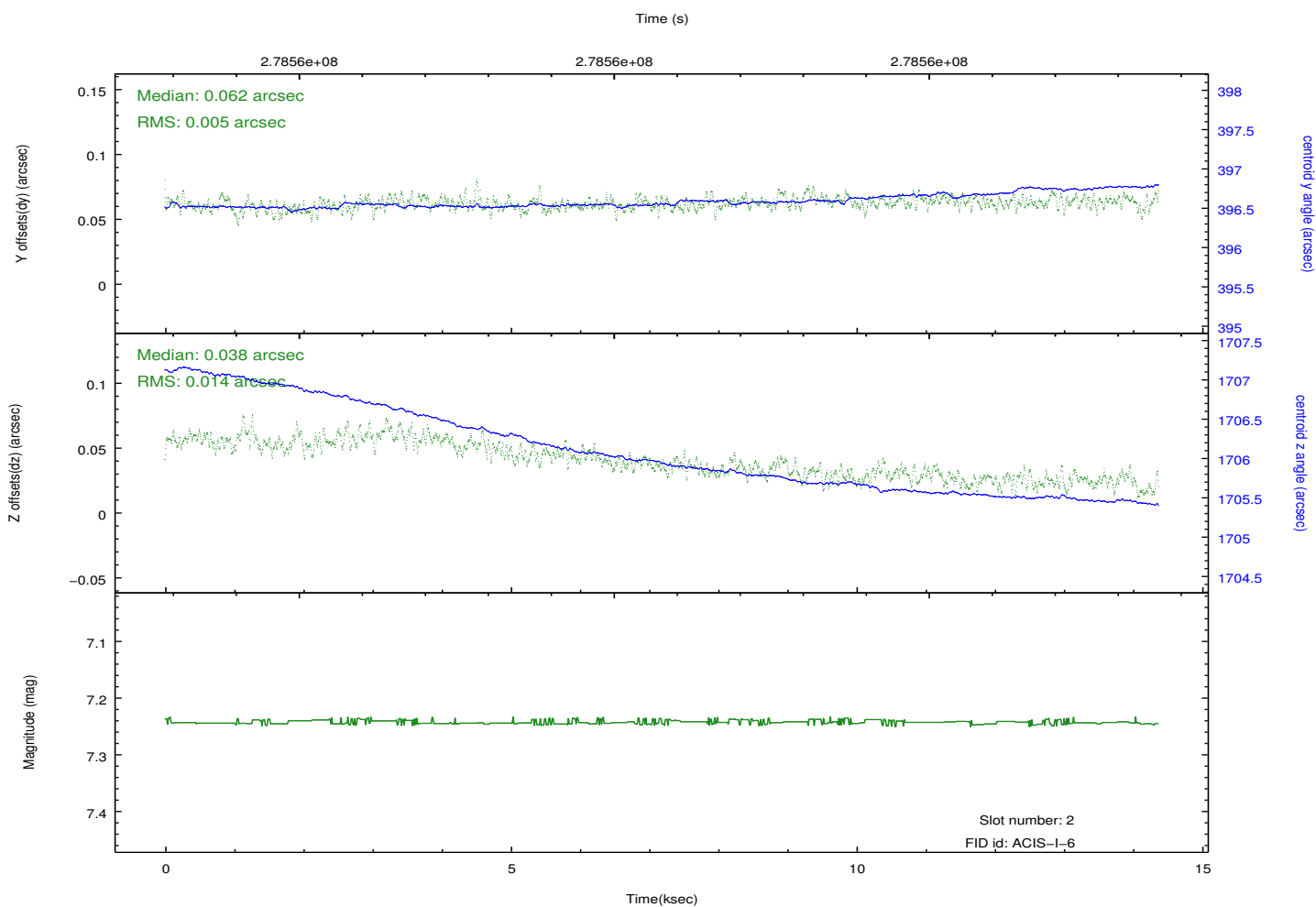
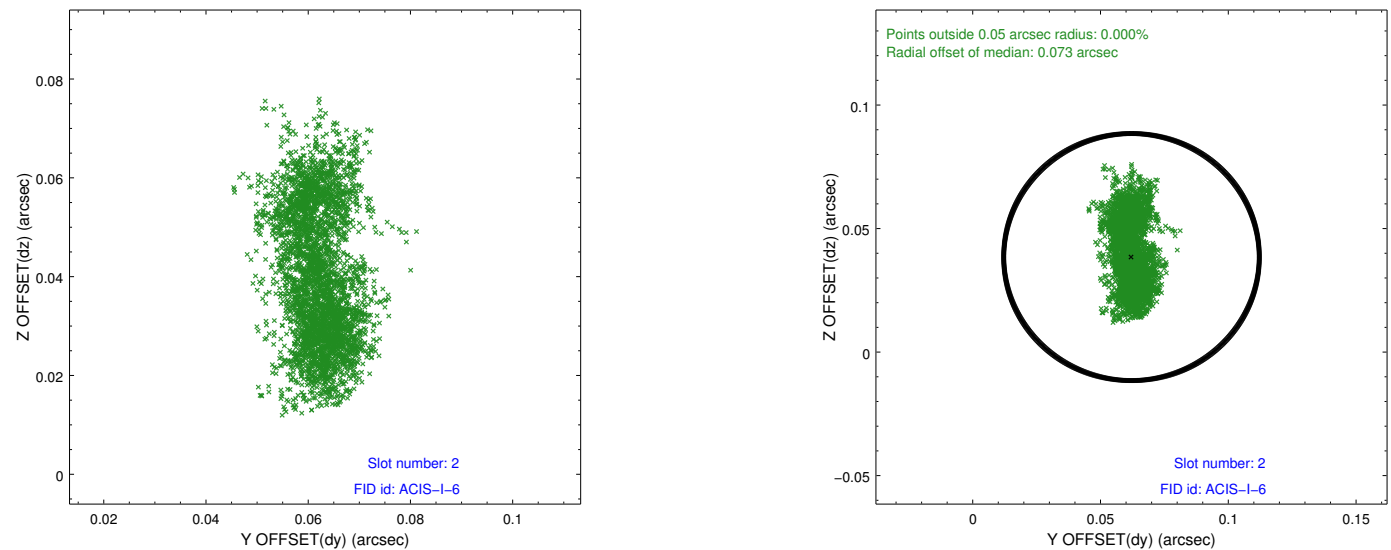
### 2.5.1 Slot 0



## 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)	2012.04.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.3684591

## A.2 Comments

Joint proposal with NOAO.