

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13434 - L2 Version 2  
Chandra X-Ray Center

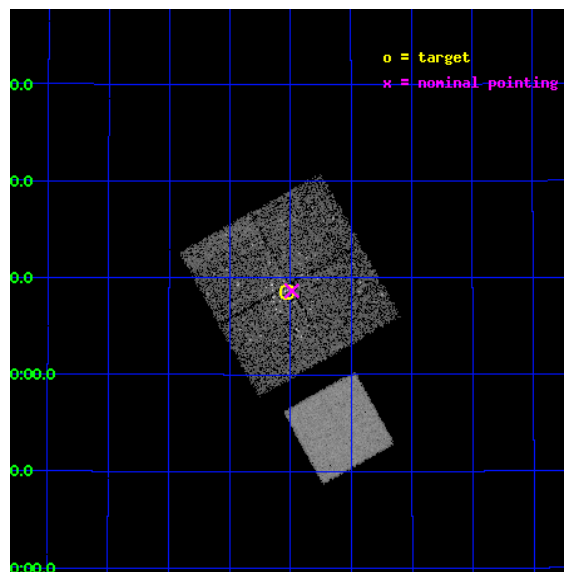
L2 Processing Date : Feb 26 2012

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# 1 Front

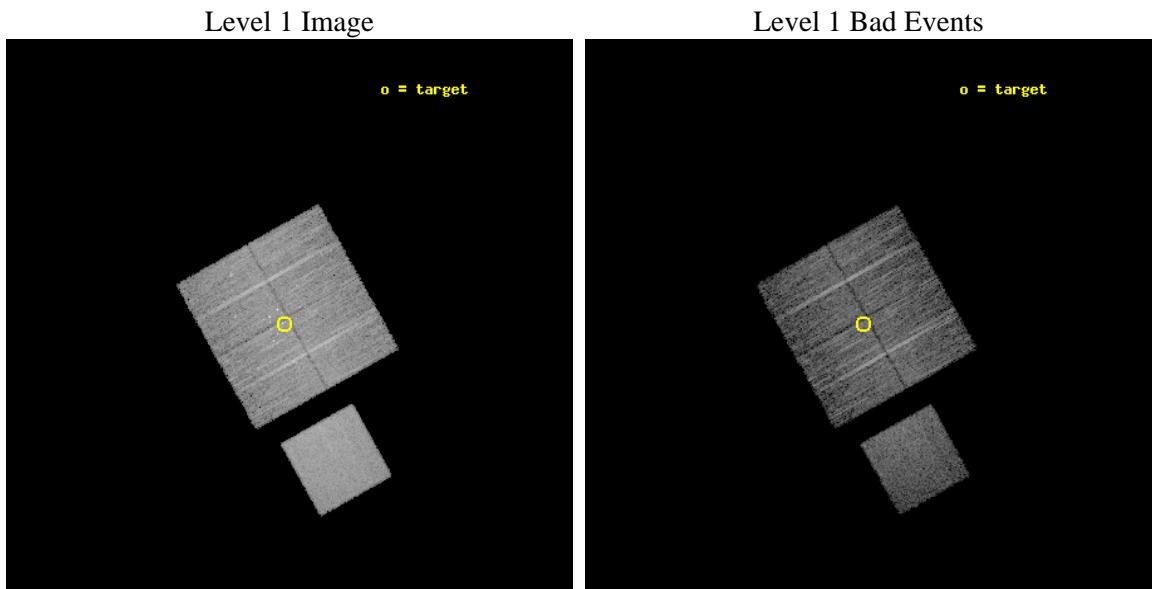
seq_num	200756	Sequence number
obs_id	13434	Observation id
title	Connecting Young Stellar Object Variability Across the Great Observatories: A Combined Spitzer and Chandra Study	Proposal title
observer	Dr. Kevin Flaherty	Principal investigator
object	IC 348	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	56.13125	Observer's specified target RA [deg]
dec_targ	32.142694	Observer's specified target Dec [deg]
ra_nom	56.121937310067	Nominal RA [deg]
dec_nom	32.144347310157	Nominal Dec [deg]
roll_nom	150.83835388632	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10043.007972479	Sum of GTIs [s]
livetime	9911.7886797635	Livetime [s]
ontime0	10042.884852469	Sum of GTIs [s]
ontime1	10039.784922123	Sum of GTIs [s]
ontime2	10039.825932205	Sum of GTIs [s]
ontime3	10043.007972479	Sum of GTIs [s]
ontime7	10043.049012482	Sum of GTIs [s]
l2events	64530	Number of level 2 events



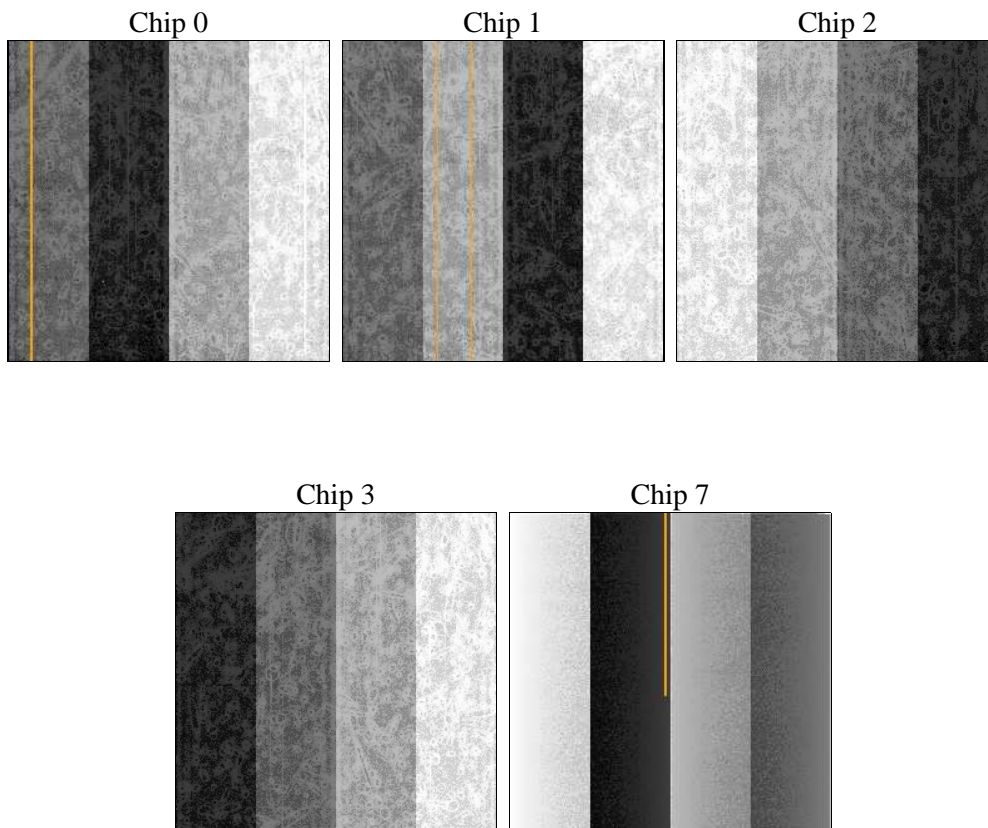
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	10043.007972479	Sum of GTIs [s]
caldbver	4.4.8	&#160	ontime0	10042.884852469	Sum of GTIs [s]
date	2012-02-26T15:14:12	Date and time of file creation	ontime1	10039.784922123	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10039.825932205	Sum of GTIs [s]
			ontime3	10043.007972479	Sum of GTIs [s]
			ontime7	10043.049012482	Sum of GTIs [s]
			l1events	320944	Number of level 1 events

### 2.1.4 Events

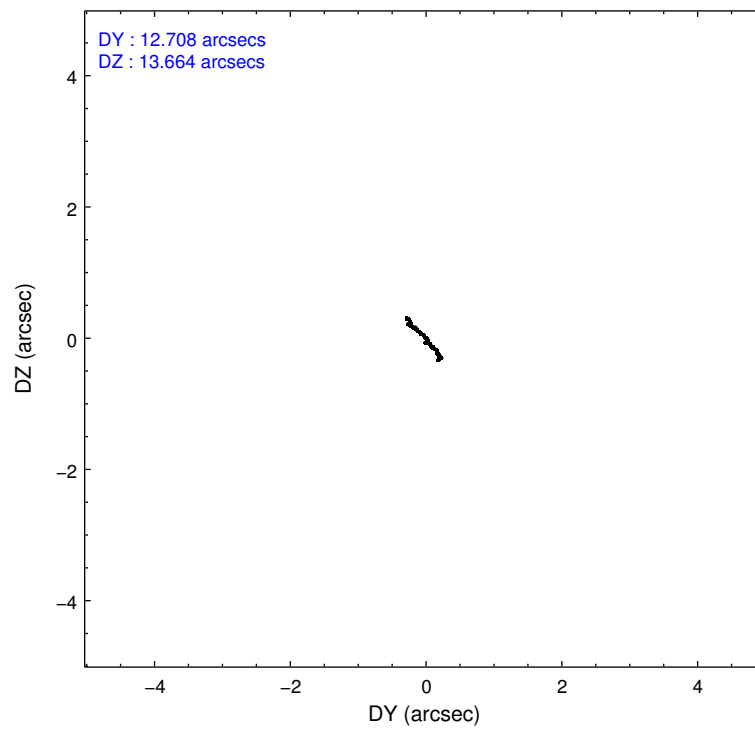
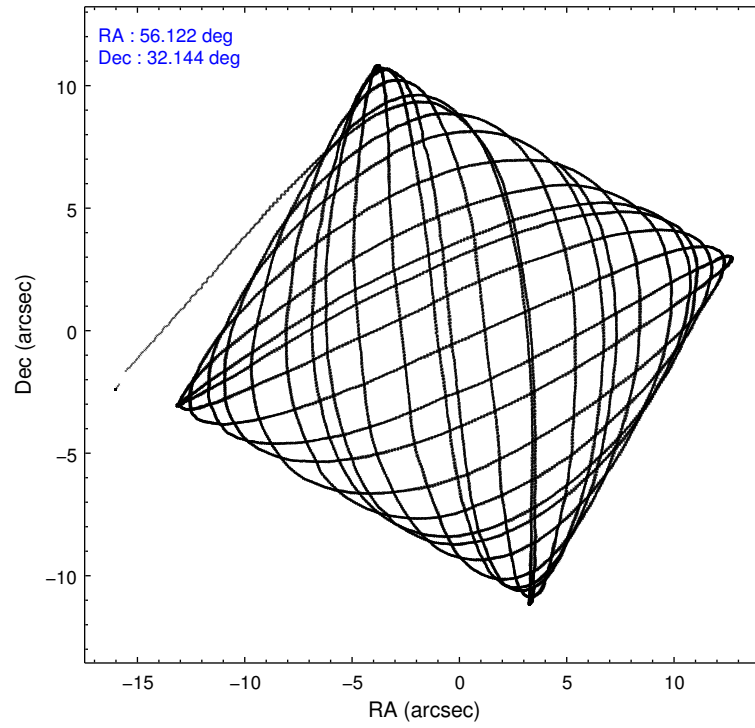
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	57859	58846	61743	62385	80111
rejected events	49892	48385	53840	53127	44686
rejected %	86%	82%	87%	85%	55%

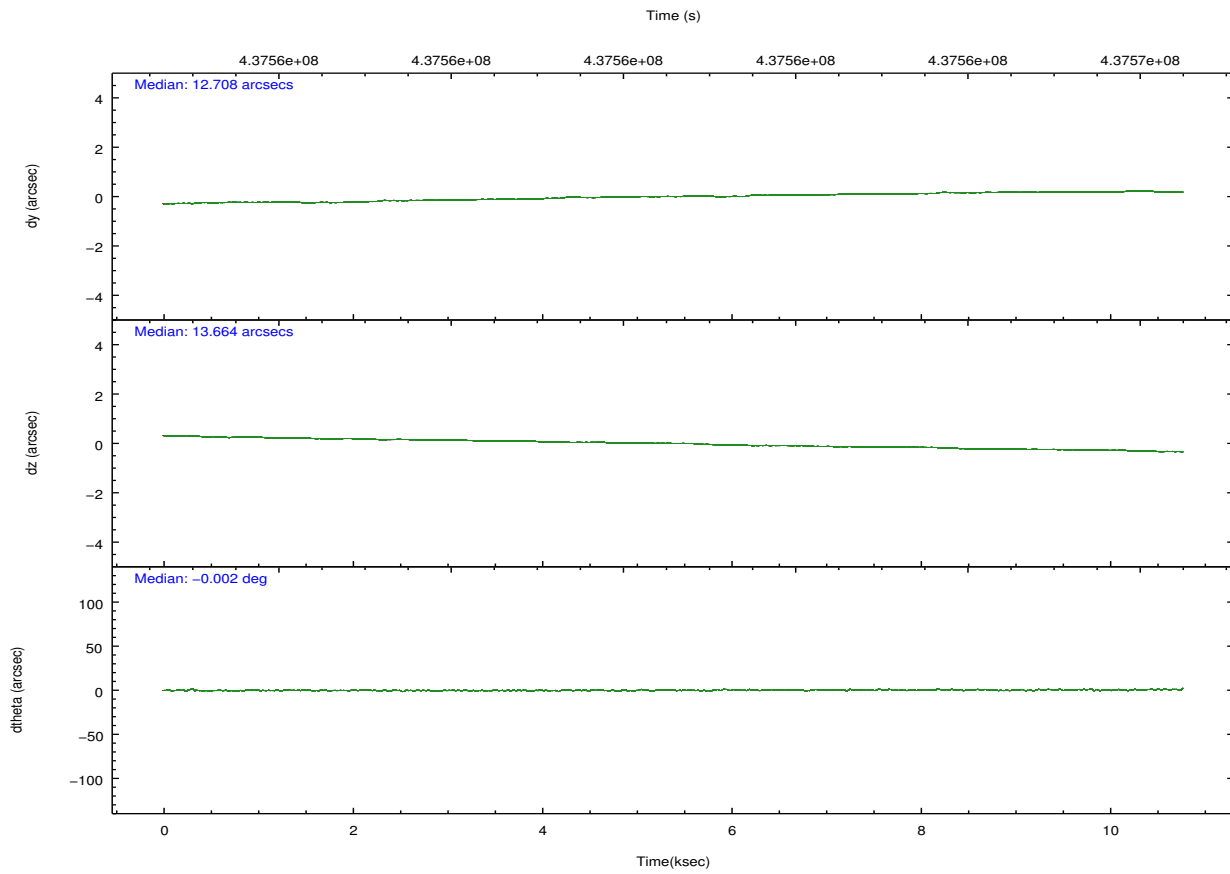
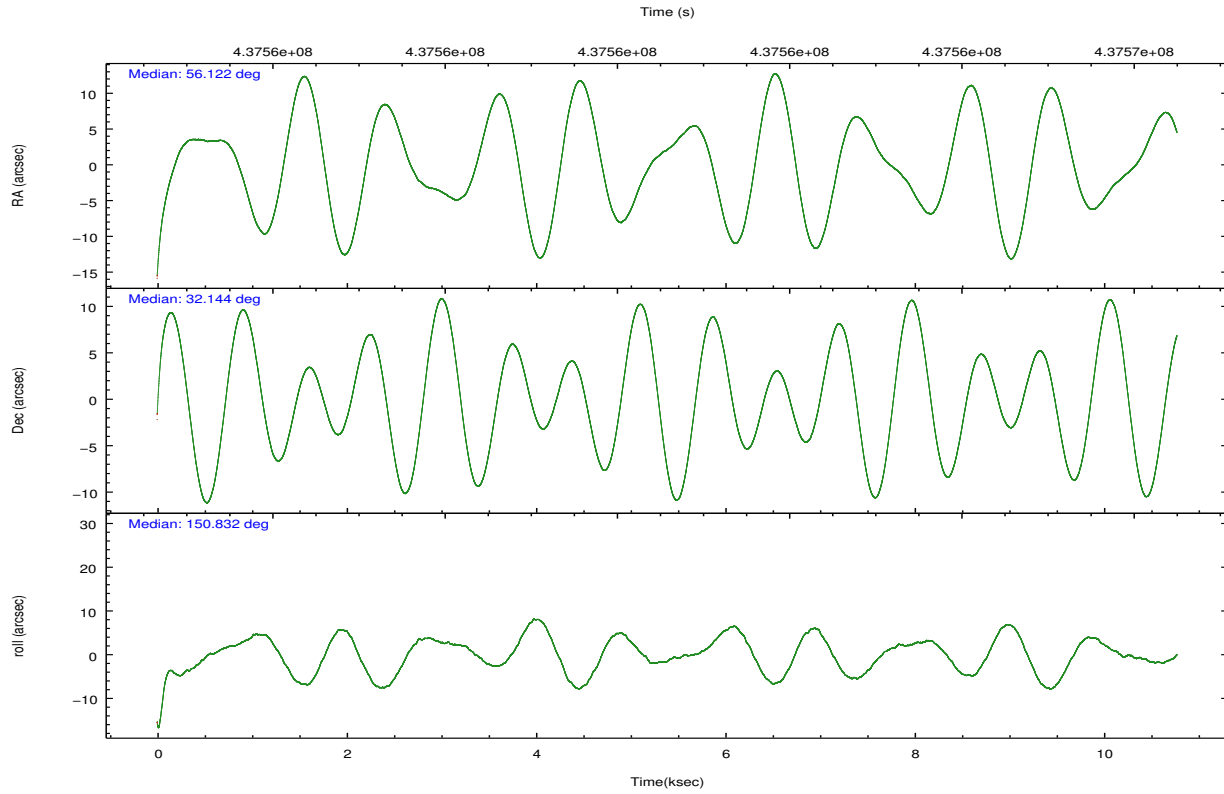
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	3129	4824	3256	4601	3169
	5%	8%	5%	7%	3%
grade 1 events	50	61	39	72	87
	0%	0%	0%	0%	0%
grade 2 events	1887	2131	1806	1730	7310
	3%	3%	2%	2%	9%
grade 3 events	815	923	700	767	3127
	1%	1%	1%	1%	3%
grade 4 events	736	890	766	821	3169
	1%	1%	1%	1%	3%
grade 5 events	2742	2859	2606	2998	8528
	4%	4%	4%	4%	10%
grade 6 events	1406	1698	1379	1345	18664
	2%	2%	2%	2%	23%
grade 7 events	47094	45460	51191	50051	36057
	81%	77%	82%	80%	45%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	56.154379	56.12193731006732	CCD I2 on	Y	Y
[deg] Pointing Dec	32.144873	32.14434731015672	CCD I3 on	Y	Y
[deg] Pointing Roll	150.612424	150.8383538863194	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	437555963.184000	437554183.63632	CCD S5 on	N	N
Observation start date	2011-11-13T07:18:17	2011-11-13T06:49:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	437565963.184000	437567094.537	On-chip summing requested	N	N
Observation end date	2011-11-13T10:04:57	2011-11-13T10:24:54	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



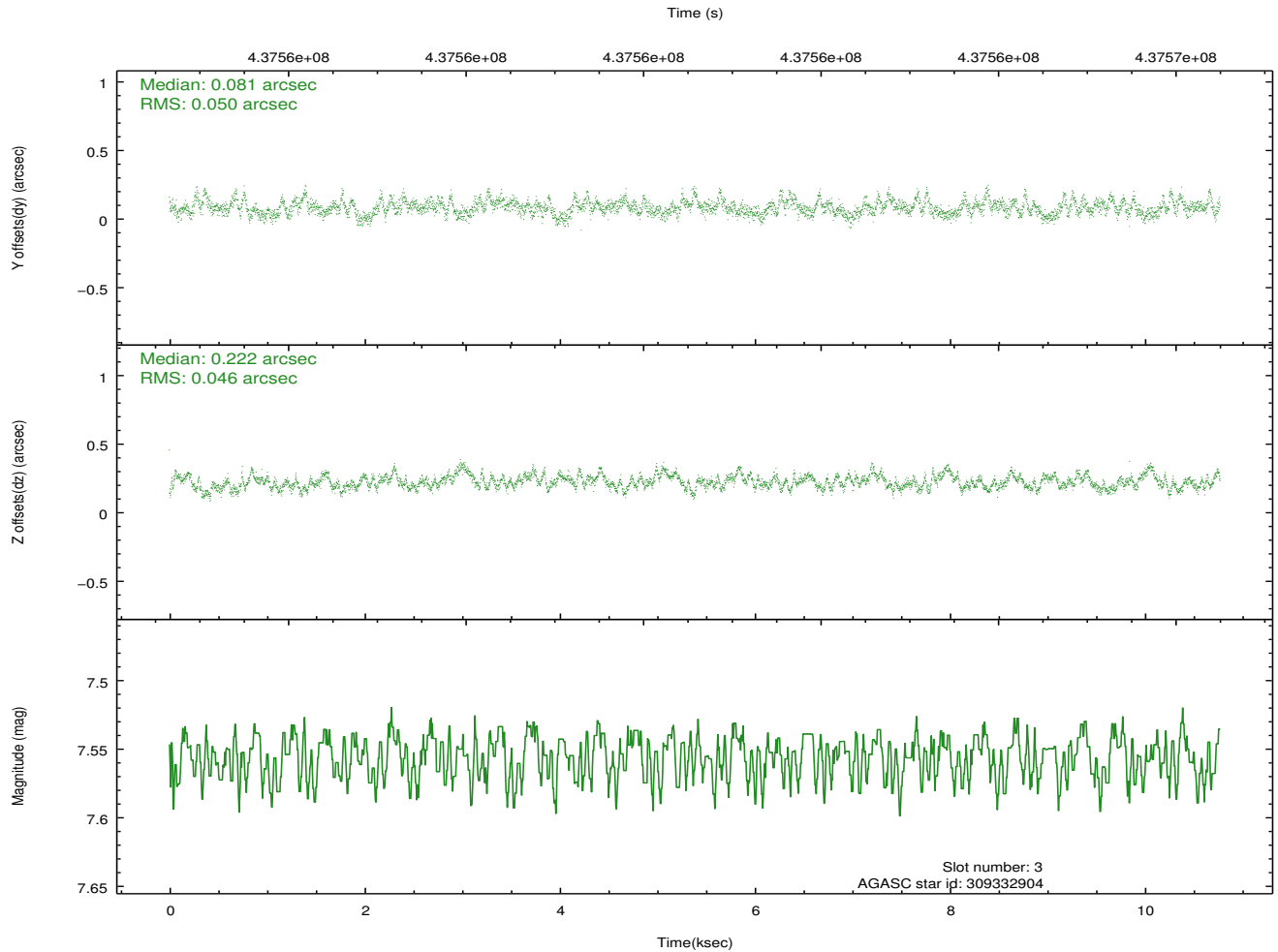
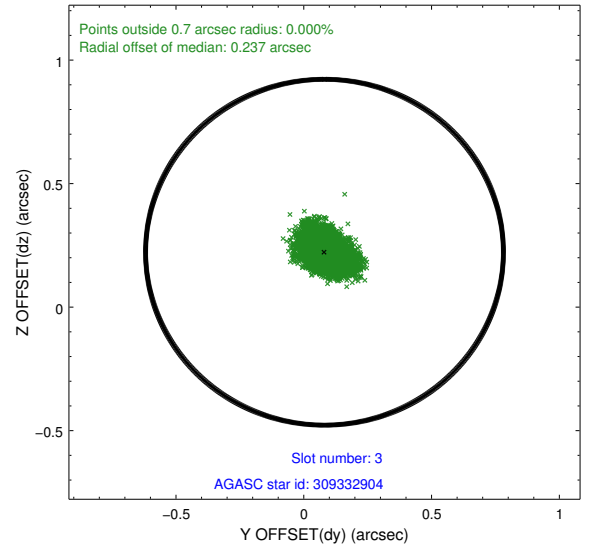
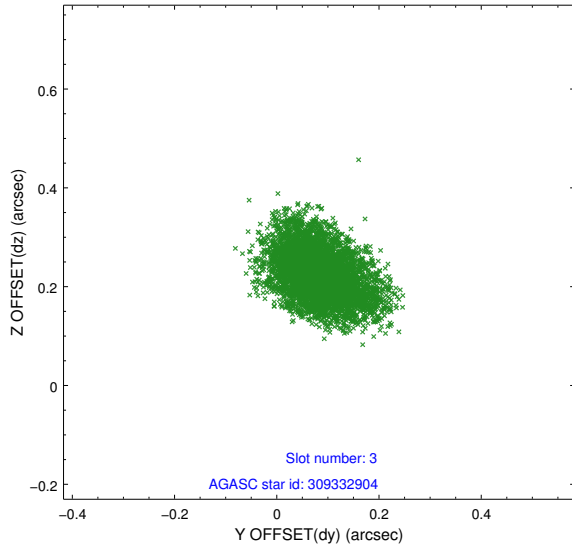


### Slot Statistics

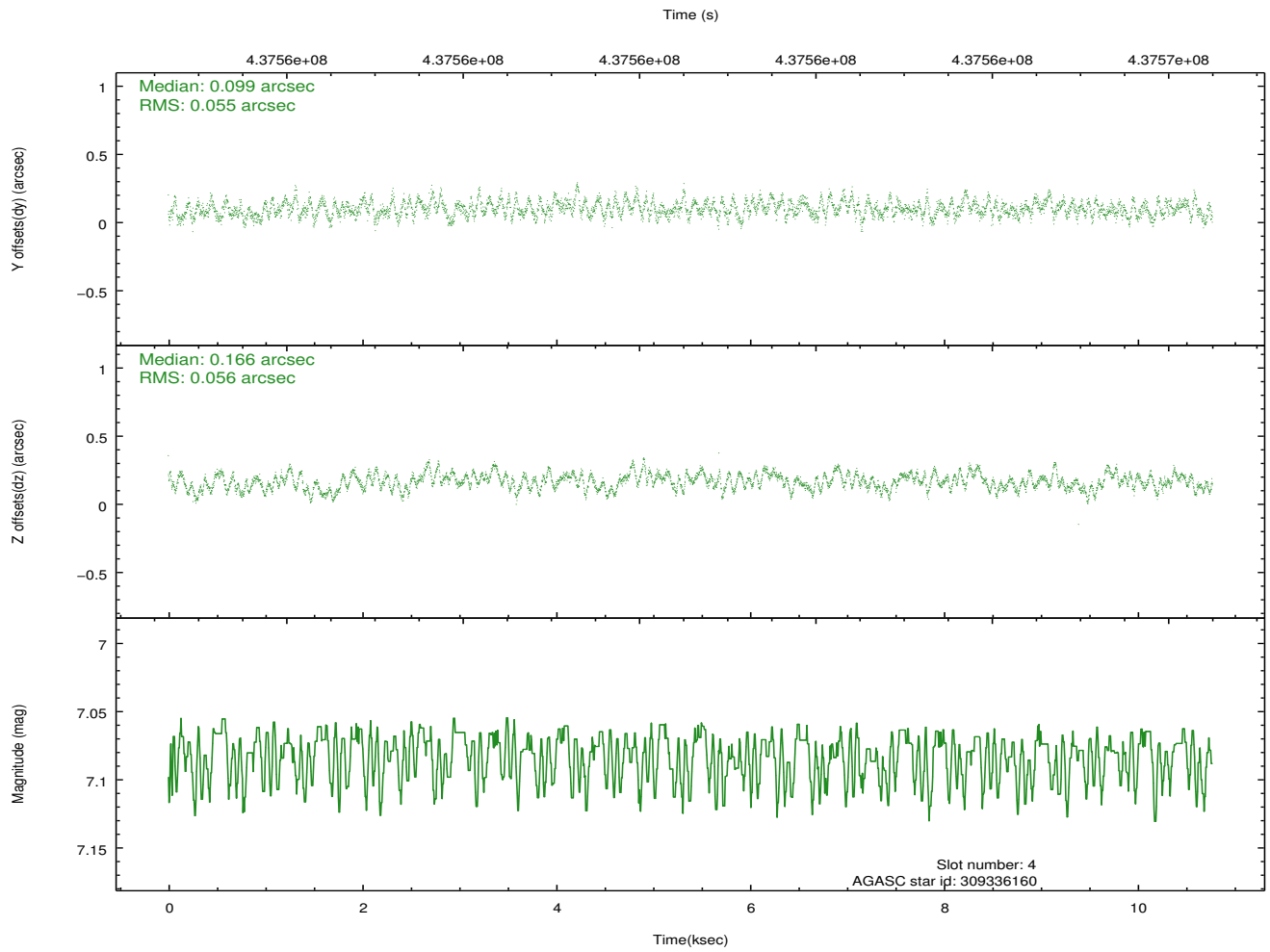
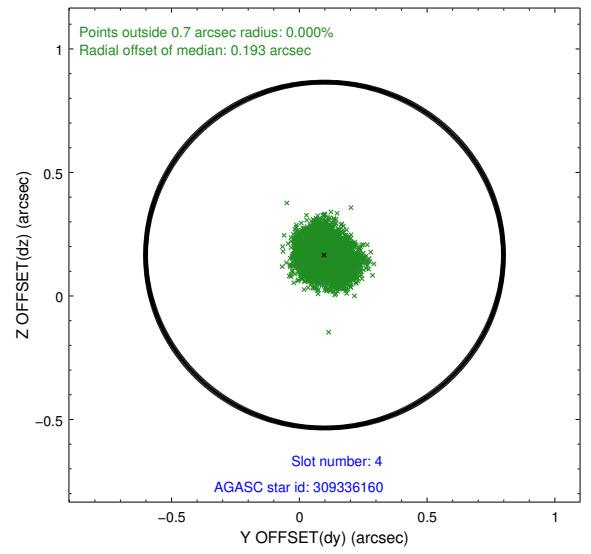
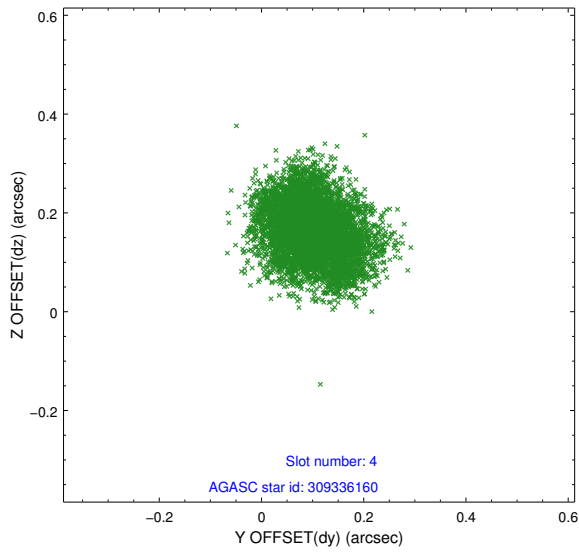
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.03	2628	0.059	-0.010	0.010	0.019	0.000000	0.000000	926.89	-837.22
1	FID	ACIS-I-5	7.02	2628	-0.212	0.066	0.010	0.018	0.000000	0.000000	-1821.22	1060.10
2	FID	ACIS-I-6	7.03	2628	0.061	0.013	0.007	0.012	0.000000	0.000000	391.91	1705.10
3	GUIDE	309332904	7.56	5256	0.081	0.222	0.073	0.121	56.362777	32.287653	-299.43	-759.57
4	GUIDE	309336160	7.08	5255	0.099	0.166	0.085	0.132	56.670296	32.290187	-1109.17	-1229.55
5	GUIDE	308676528	8.68	5251	0.055	-0.094	0.075	0.122	55.206355	31.826287	1969.03	2411.95
6	GUIDE	308676888	9.11	5251	-0.115	-0.178	0.106	0.171	55.566279	31.676245	744.35	2350.50
7	GUIDE	308674680	8.84	5219	-0.127	-0.124	0.101	0.165	55.747345	31.652644	218.20	2153.64

## 2.4 Star Slots

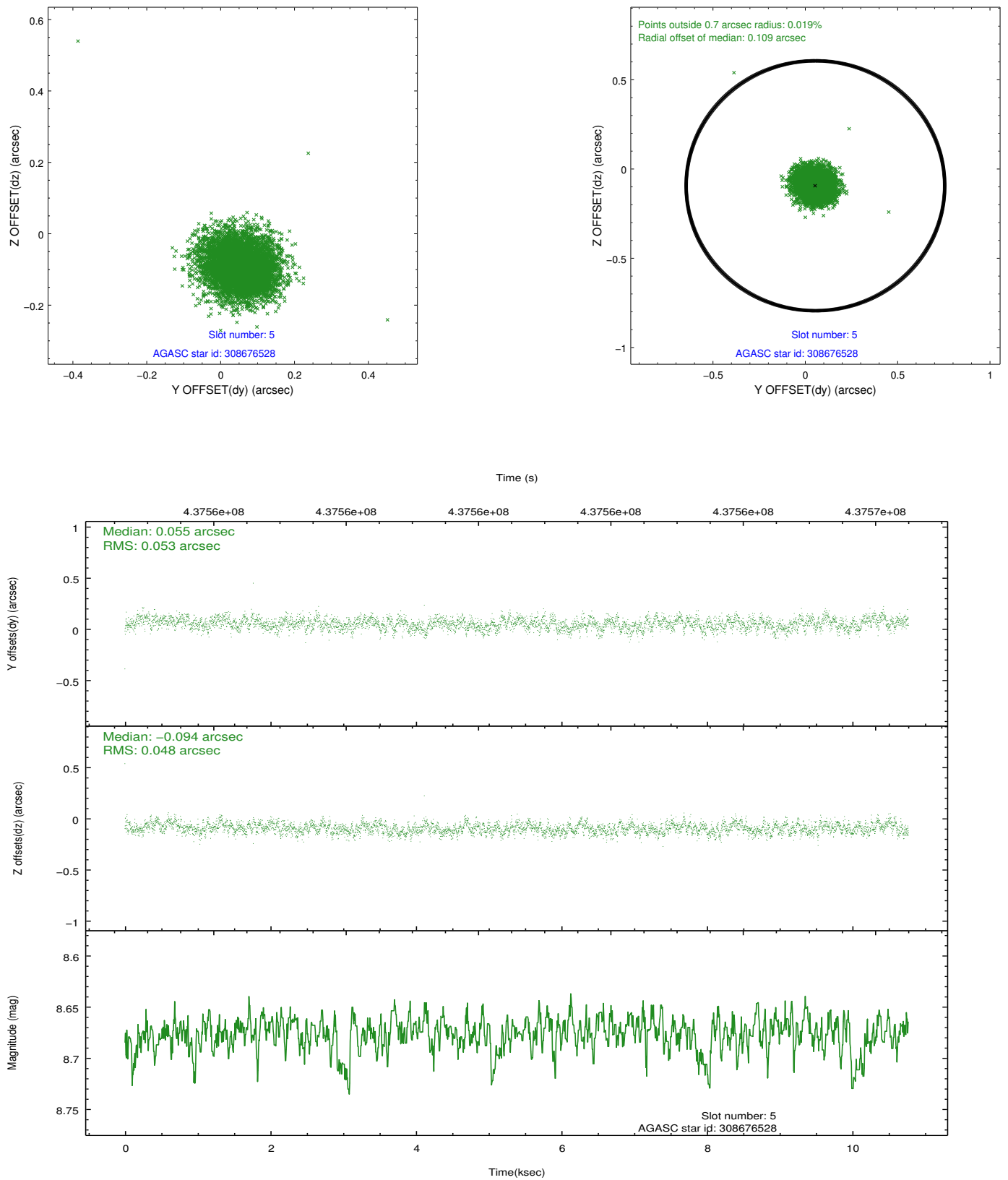
### 2.4.1 Slot 3



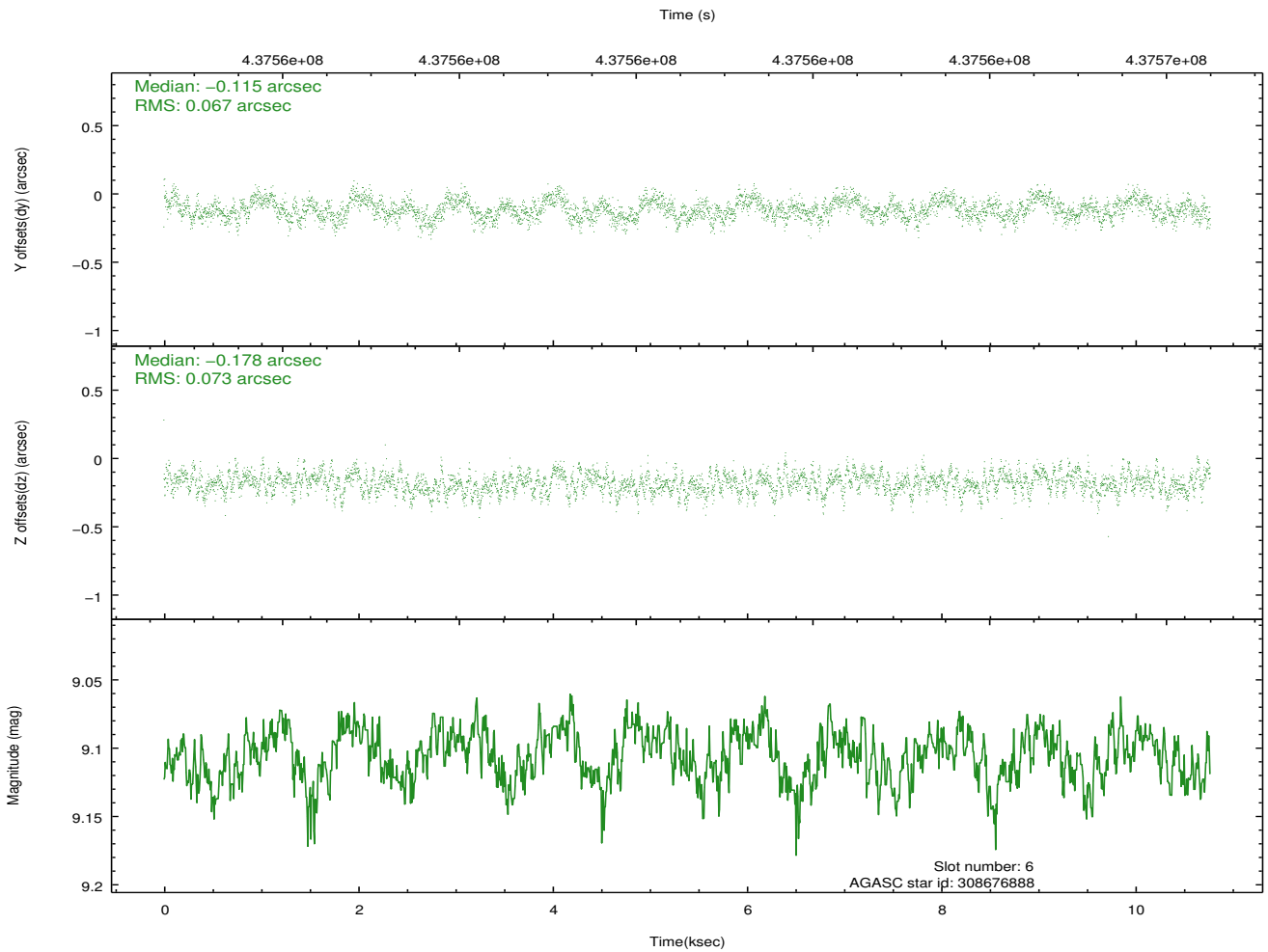
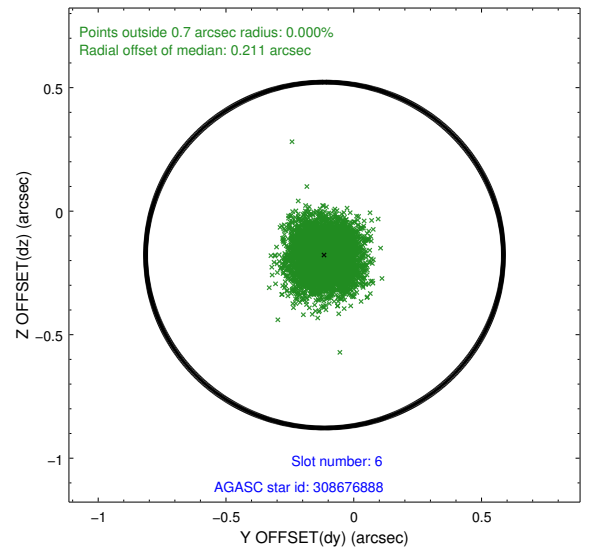
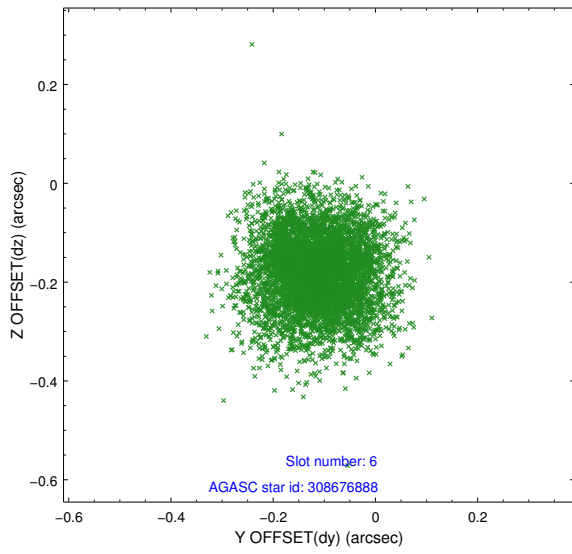
## 2.4.2 Slot 4



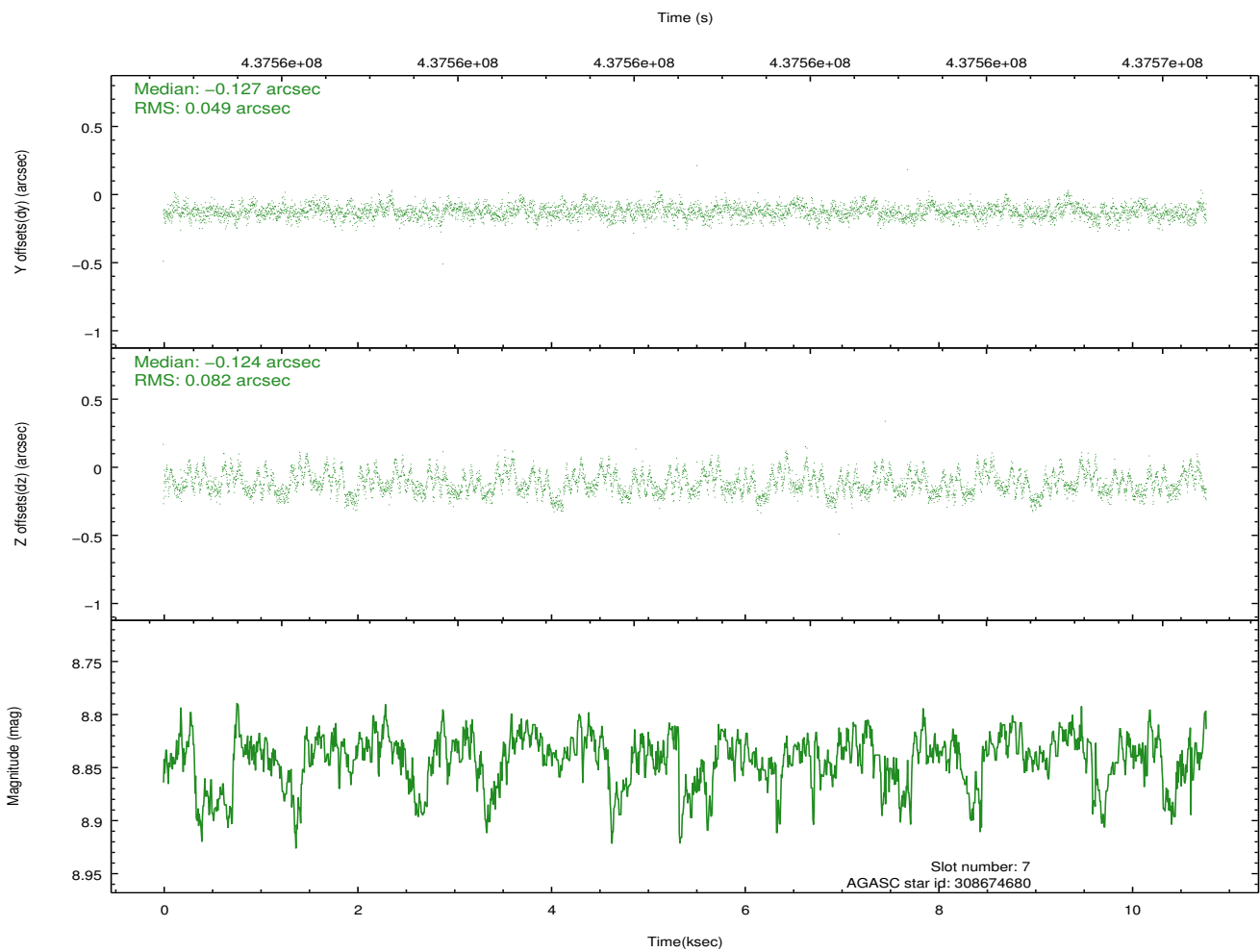
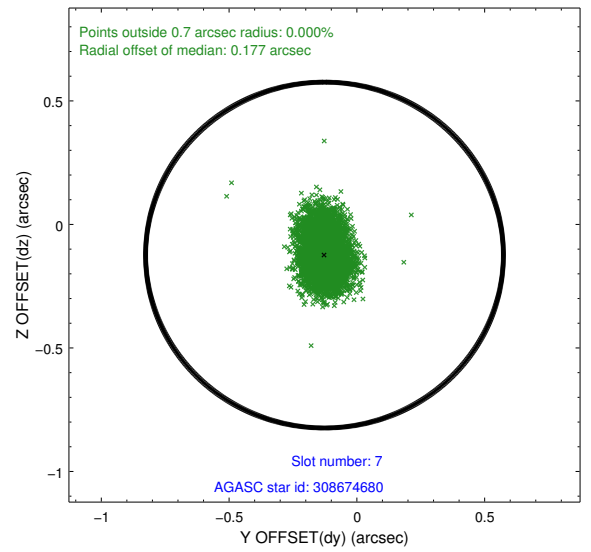
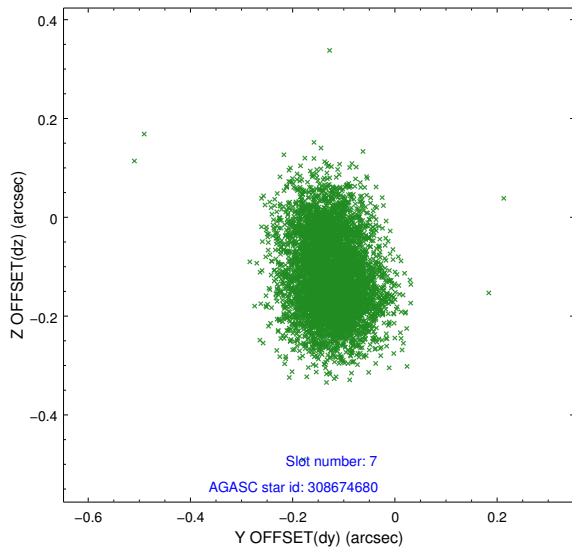
### 2.4.3 Slot 5



### 2.4.4 Slot 6

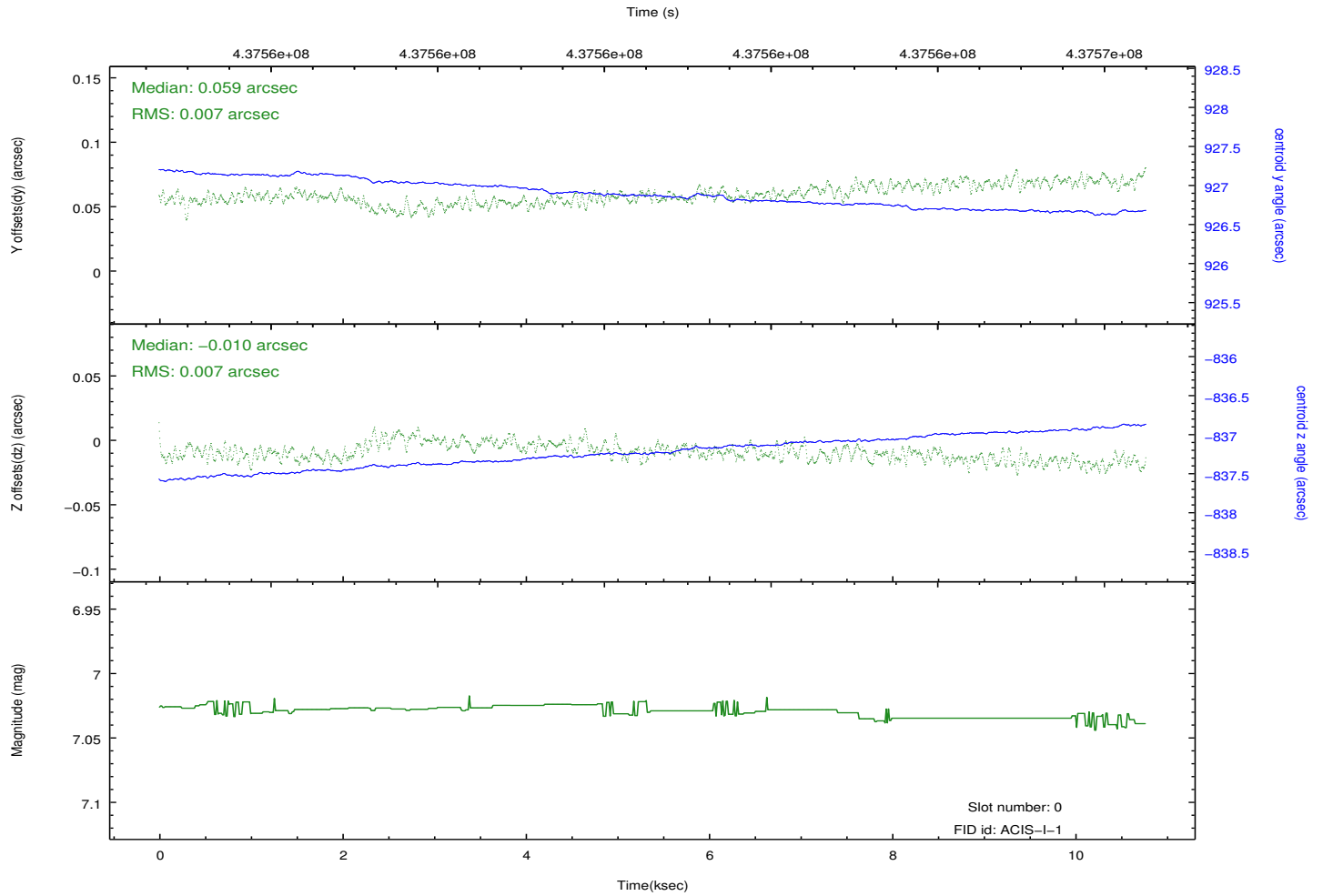
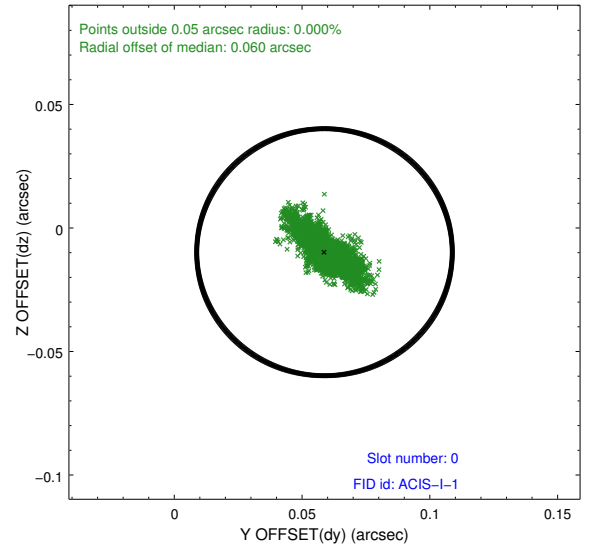
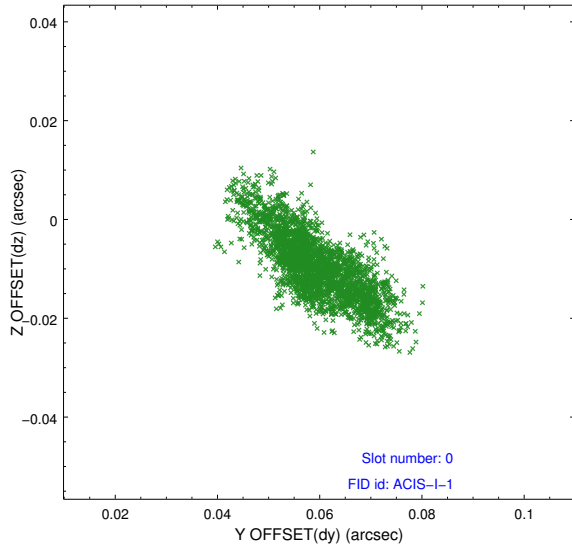


## 2.4.5 Slot 7

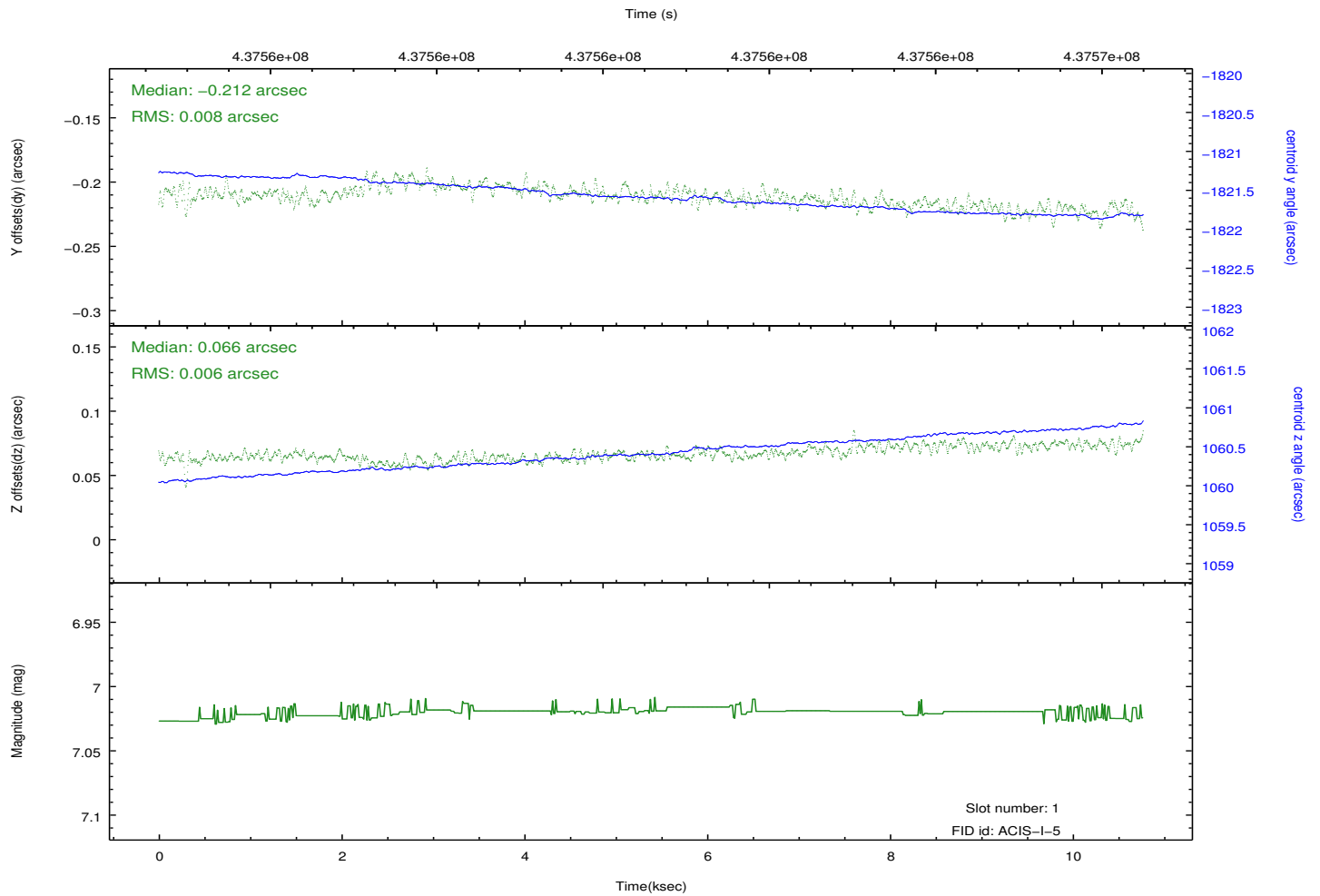
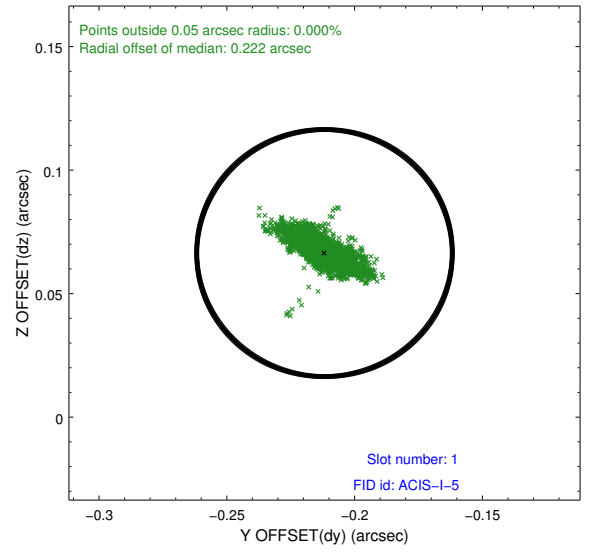
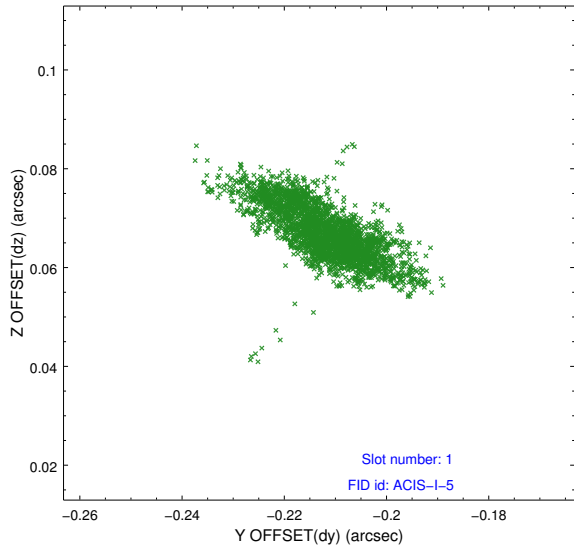


## 2.5 FID Slots

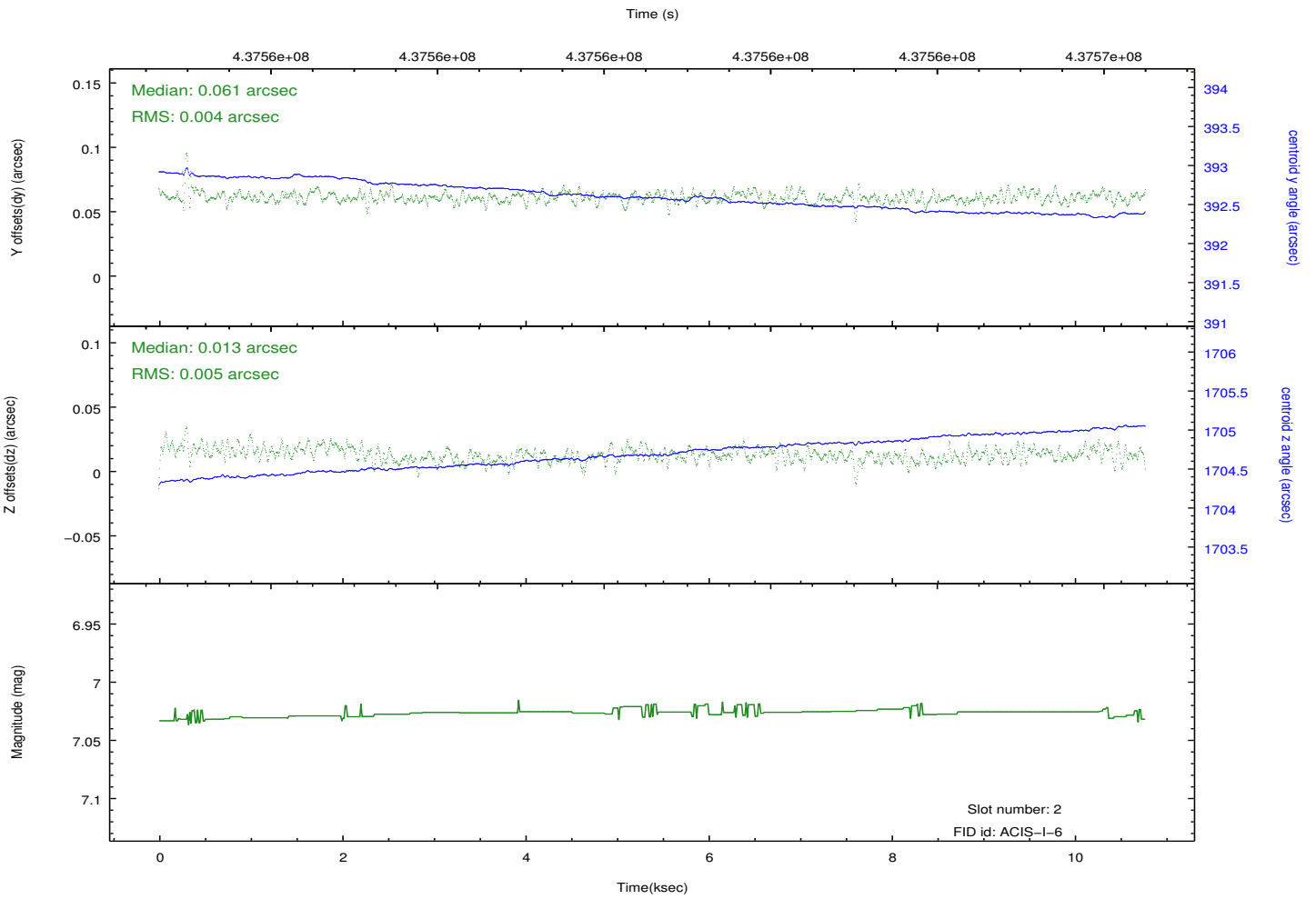
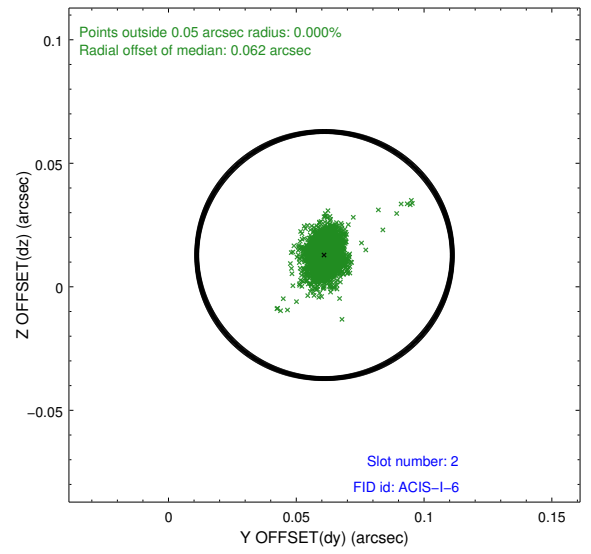
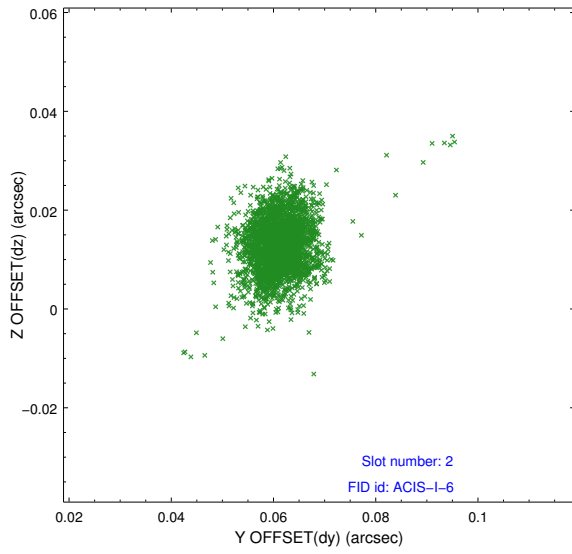
### 2.5.1 Slot 0



## 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)	2012.02.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.043007965386

### A.2 Comments

Joint Proposal: CX0-Spitzer. Monitor constraint met, follows obs13433 by three days.