

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 12030 - L2 Version 3  
Chandra X-Ray Center

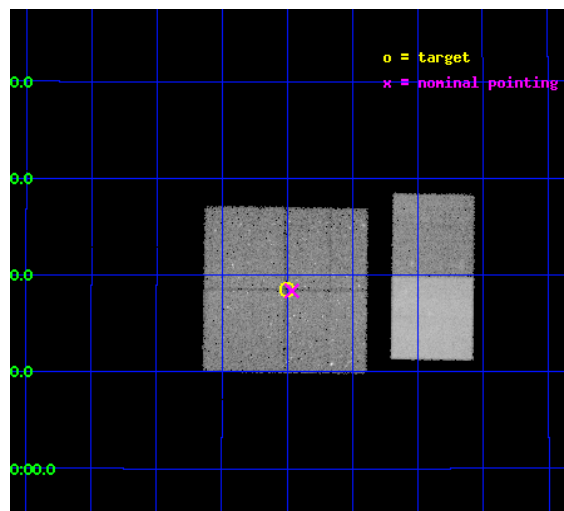
L2 Processing Date : Jun 17 2012

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# 1 Front

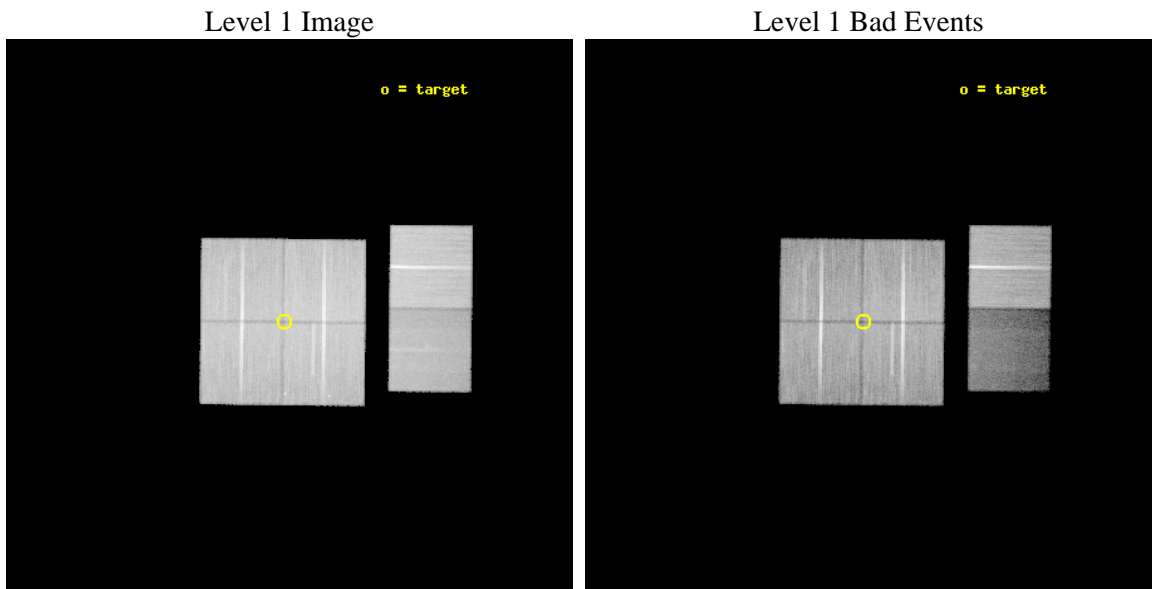
seq_num	200647	Sequence number
obs_id	12030	Observation id
title	Rethinking the rotation-activity classifications of cool single and binary stars	Proposal title
observer	Dr. Soren Meibom	Principal investigator
object	M35	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	92.375	Observer's specified target RA [deg]
dec_targ	24.30875	Observer's specified target Dec [deg]
ra_nom	92.365958595319	Nominal RA [deg]
dec_nom	24.306401022943	Nominal Dec [deg]
roll_nom	90.662407874604	Nominal Roll [deg]
revision	3	Processing version of data
ontime	48946.461971223	Sum of GTIs [s]
livetime	48326.672397723	Livetime [s]
ontime0	48946.420941174	Sum of GTIs [s]
ontime1	48946.461971223	Sum of GTIs [s]
ontime2	48943.261961043	Sum of GTIs [s]
ontime3	48943.303000748	Sum of GTIs [s]
ontime6	48946.626121163	Sum of GTIs [s]
ontime7	48949.826131523	Sum of GTIs [s]
l2events	248104	Number of level 2 events



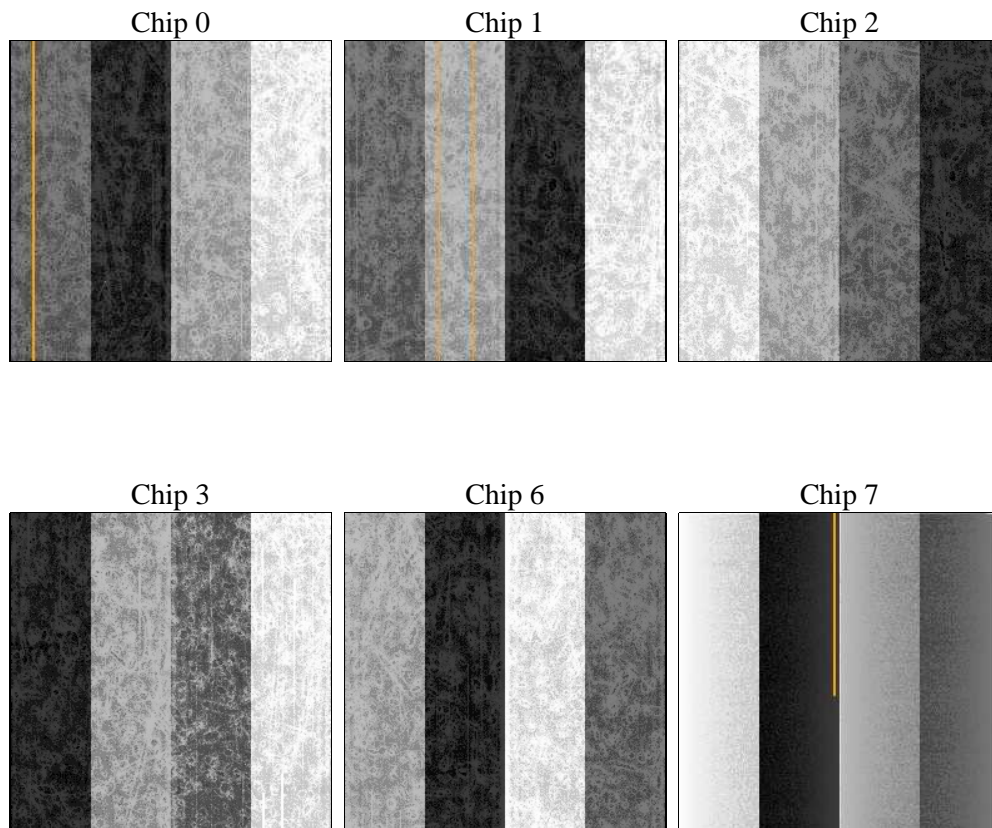
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	49000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	48946.461971223	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	48946.420941174	Sum of GTIs [s]
date	2012-06-17T13:33:41	Date and time of file creation	ontime1	48946.461971223	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	48943.261961043	Sum of GTIs [s]
			ontime3	48943.303000748	Sum of GTIs [s]
			ontime6	48946.626121163	Sum of GTIs [s]
			ontime7	48949.826131523	Sum of GTIs [s]
			l1events	1951897	Number of level 1 events

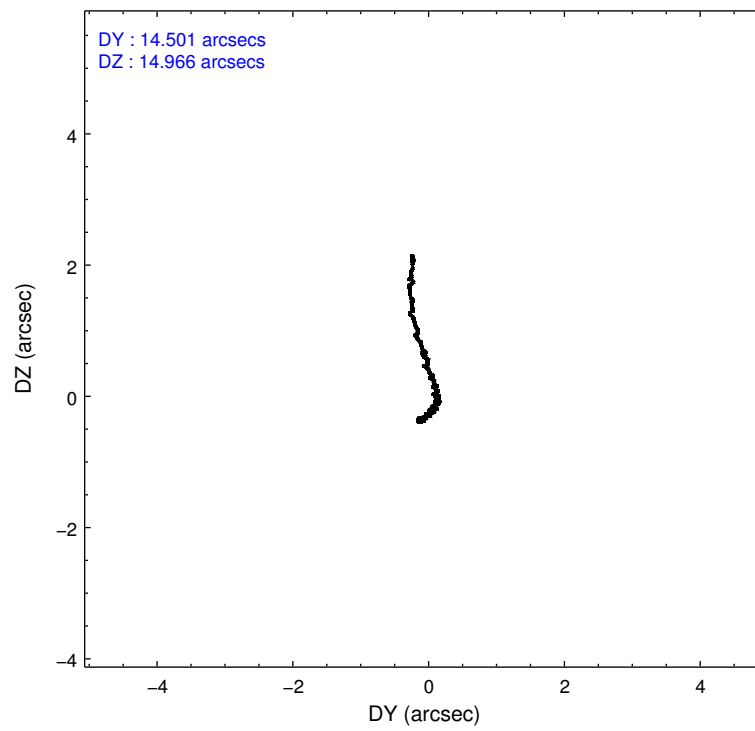
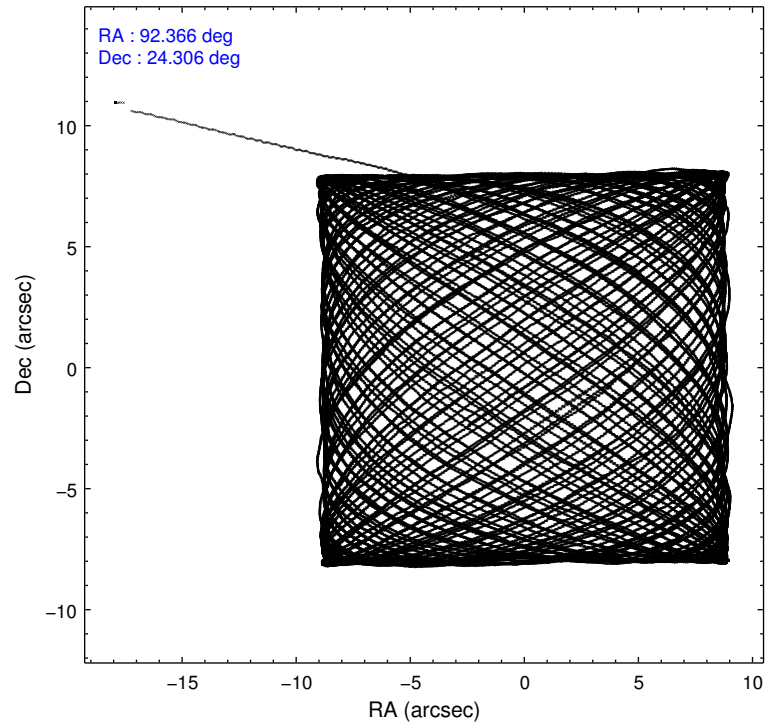
### 2.1.4 Events

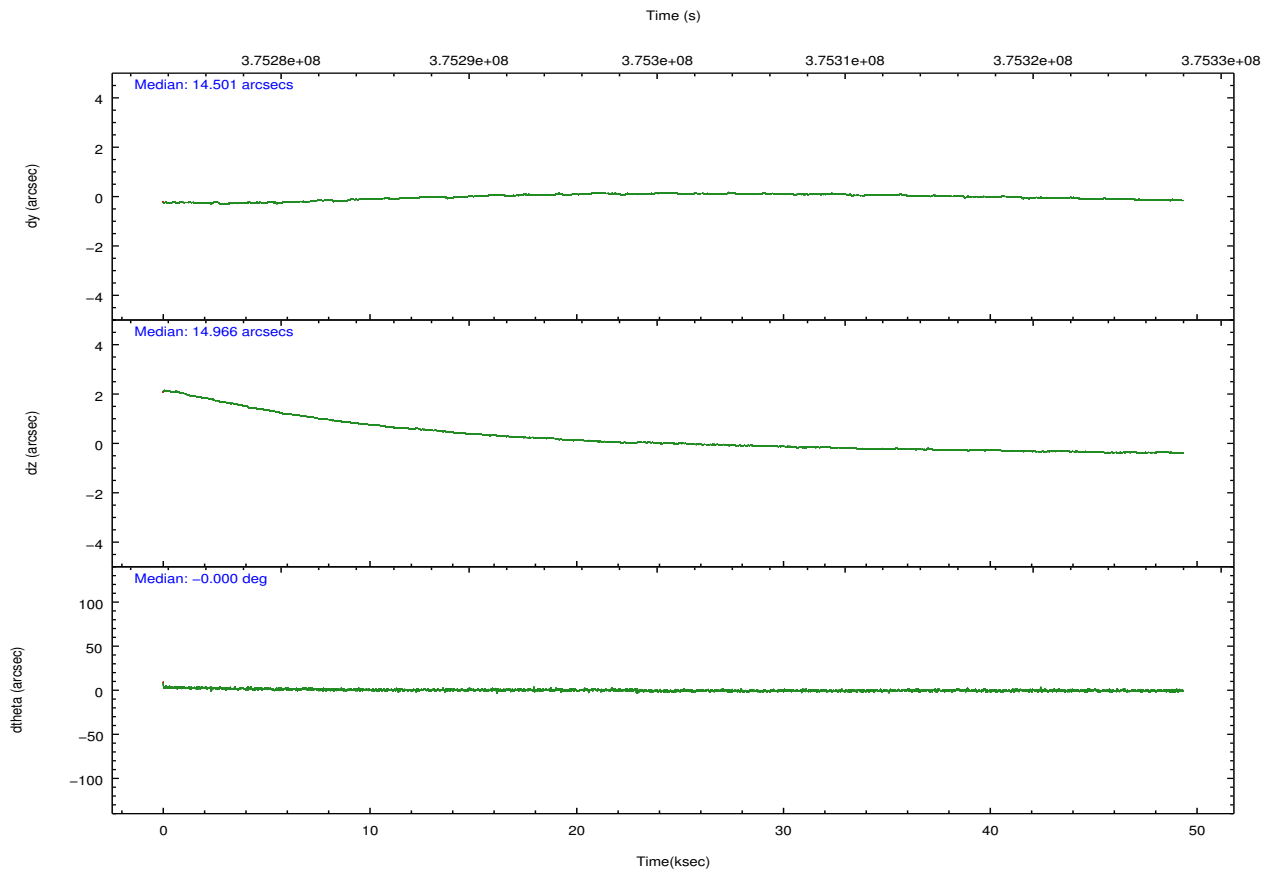
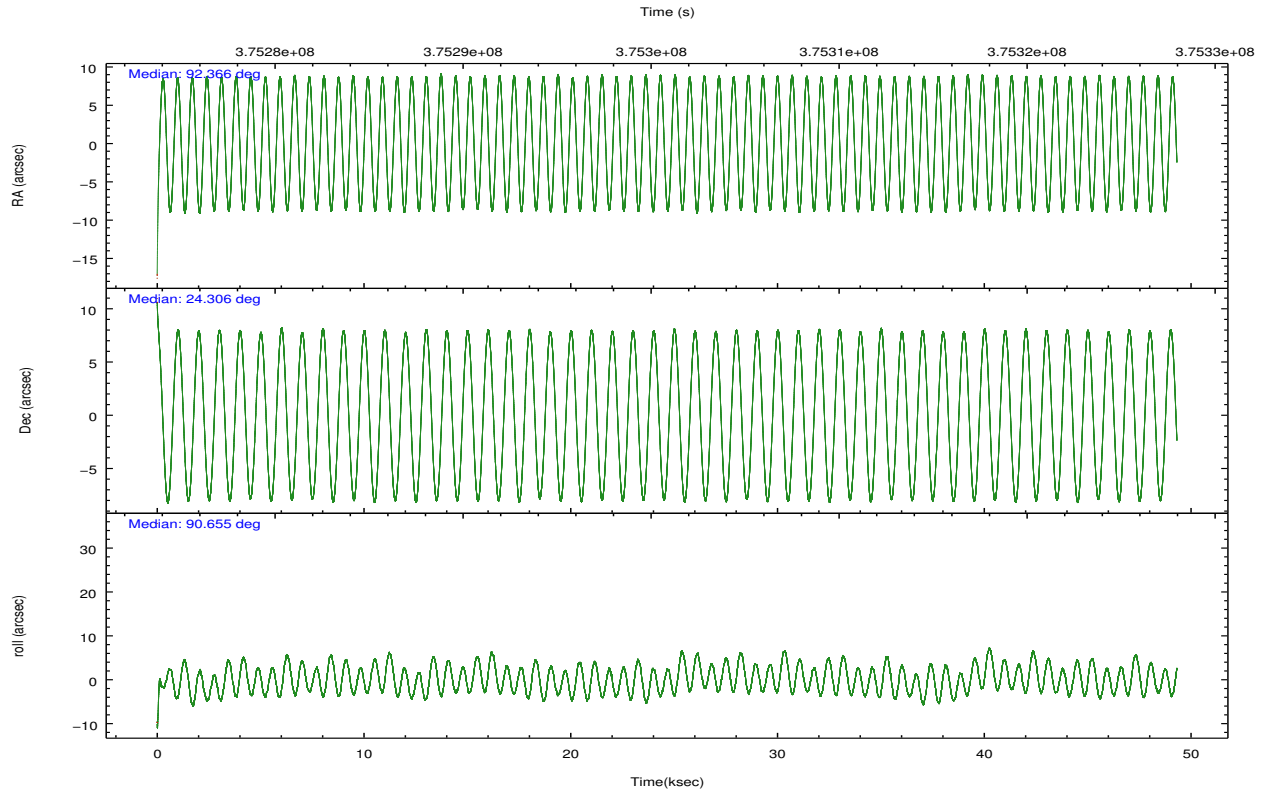
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	327892	320924	381416	343562	366744	211359	grade 0 events	13147	12699	13862	14421	13838	16208
rejected events	295424	287866	348861	311493	333219	89010		4%	3%	3%	4%	3%	7%
rejected %	90%	89%	91%	90%	90%	42%	grade 1 events	206	184	200	245	202	580
								0%	0%	0%	0%	0%	0%
							grade 2 events	7894	7292	7854	6535	7630	29917
								2%	2%	2%	1%	2%	14%
							grade 3 events	3487	3833	3087	3307	3415	12251
								1%	1%	0%	0%	0%	5%
							grade 4 events	3214	3653	3203	3057	3312	12065
								0%	1%	0%	0%	0%	5%
							grade 5 events	6149	6836	5668	7173	7519	21848
								1%	2%	1%	2%	2%	10%
							grade 6 events	4734	5585	4551	4754	5338	51921
								1%	1%	1%	1%	1%	24%
							grade 7 events	289061	280842	342991	304070	325490	66569
								88%	87%	89%	88%	88%	31%

## 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	92.381437	92.36595859531927	Subarray requested	NONE	NONE
[deg] Pointing Dec	24.282801	24.30640102294316	Alternating exposures requested	N	N
[deg] Pointing Roll	90.447359	90.6624078746038	[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)	375276509.184000	375275313.23924			
Observation start date	2009-11-22T11:27:23	2009-11-22T11:08:33			
[s] Observation end time (MET)	375325509.184000	375326434.60432			
Observation end date	2009-11-23T01:04:03	2009-11-23T01:20:34			
Read mode	TIMED	TIMED			

## 2.3 Aspect



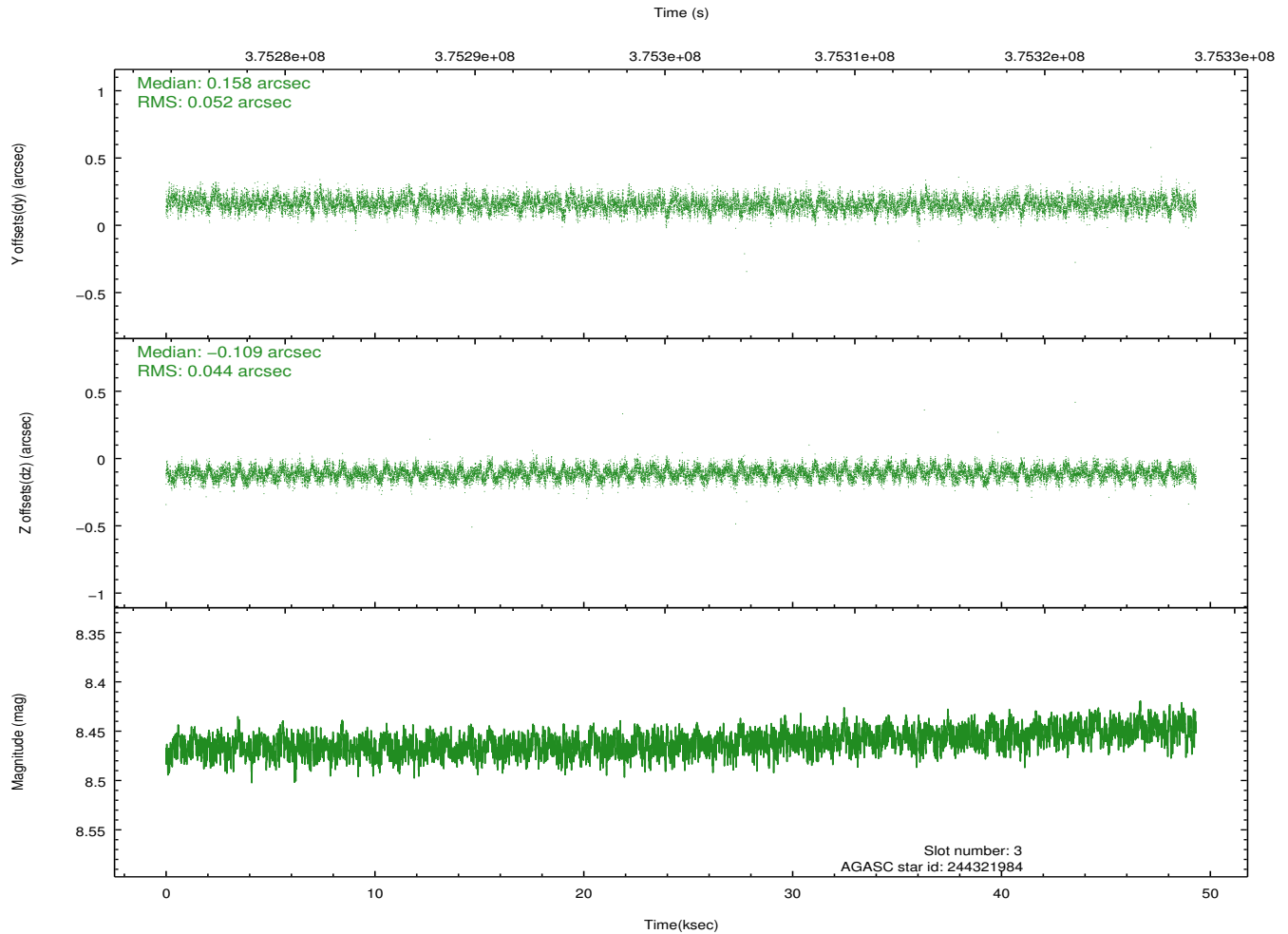
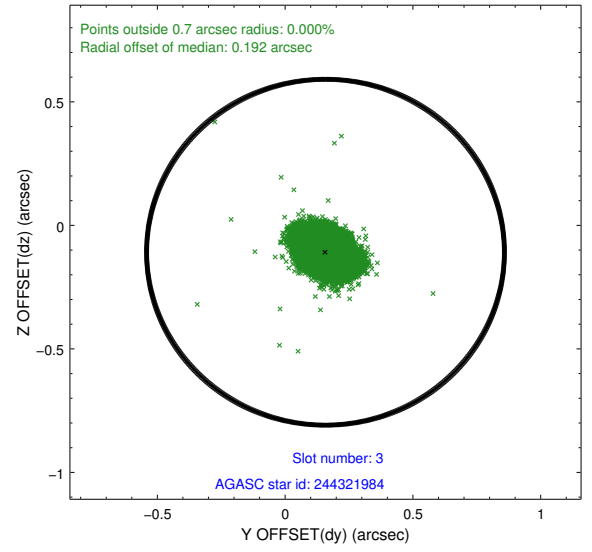
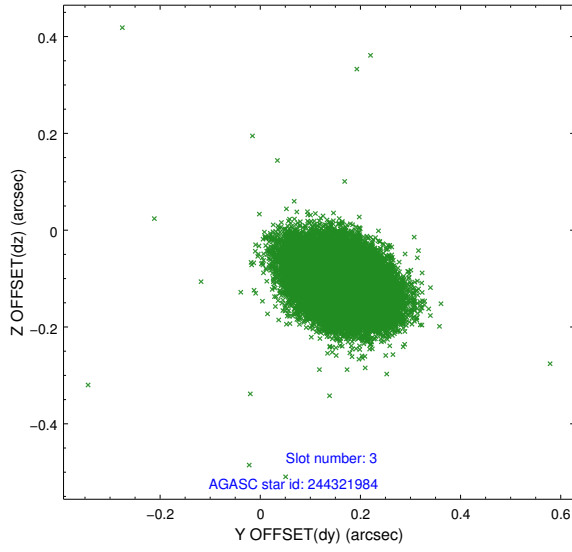


### Slot Statistics

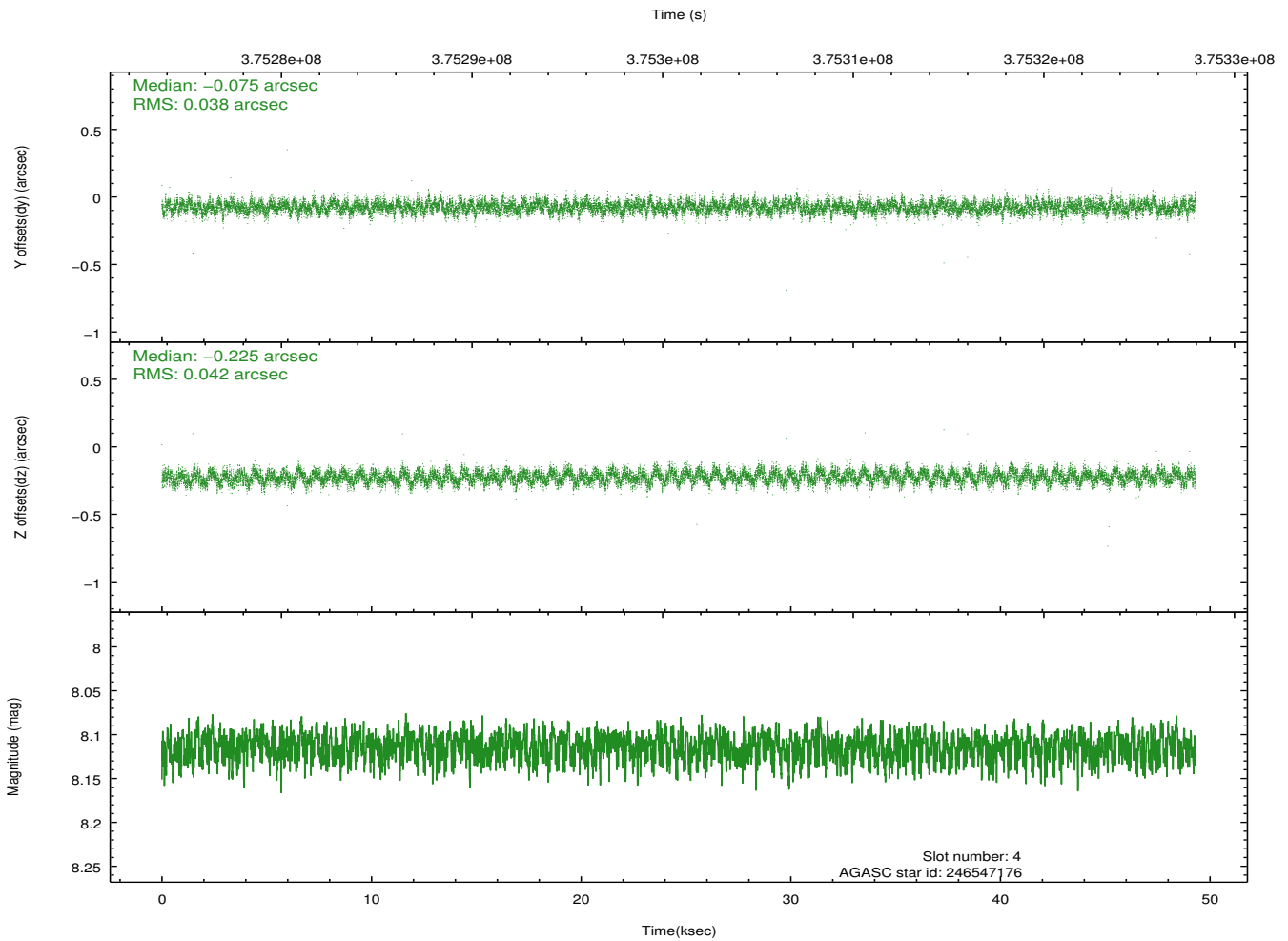
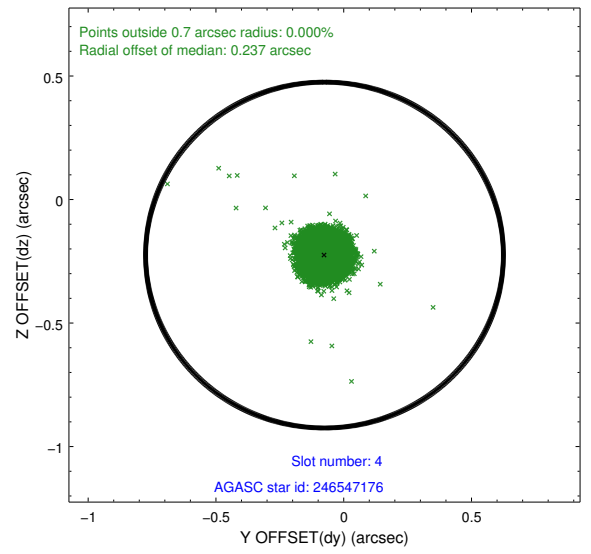
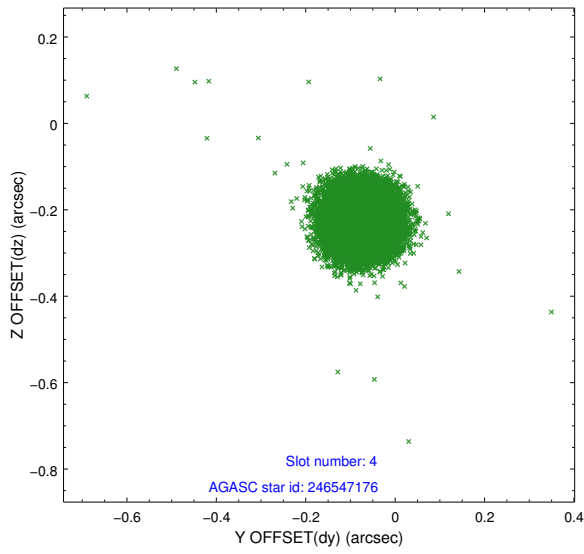
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
1	FID	ACIS-I-2	6.95	12030	-0.072	-0.067	0.010	0.021	0.000000	0.000000	-769.28	-845.23
2	FID	ACIS-I-6	7.04	12030	0.010	0.110	0.010	0.021	0.000000	0.000000	390.71	1703.10
3	GUIDE	244321984	8.46	24044	0.158	-0.109	0.072	0.117	92.020167	23.738037	-1950.04	1205.67
4	GUIDE	246547176	8.11	24051	-0.075	-0.225	0.060	0.094	92.211593	24.500679	789.04	550.37
5	GUIDE	246556344	8.64	24043	-0.083	0.198	0.072	0.119	93.038201	24.709750	1525.84	-2159.27
6	GUIDE	246558648	8.50	24041	-0.111	0.181	0.068	0.113	92.968981	24.712620	1536.89	-1933.06
7	GUIDE	244321104	8.69	24041	0.112	-0.040	0.077	0.124	92.046020	23.861083	-1507.93	1116.00

## 2.4 Star Slots

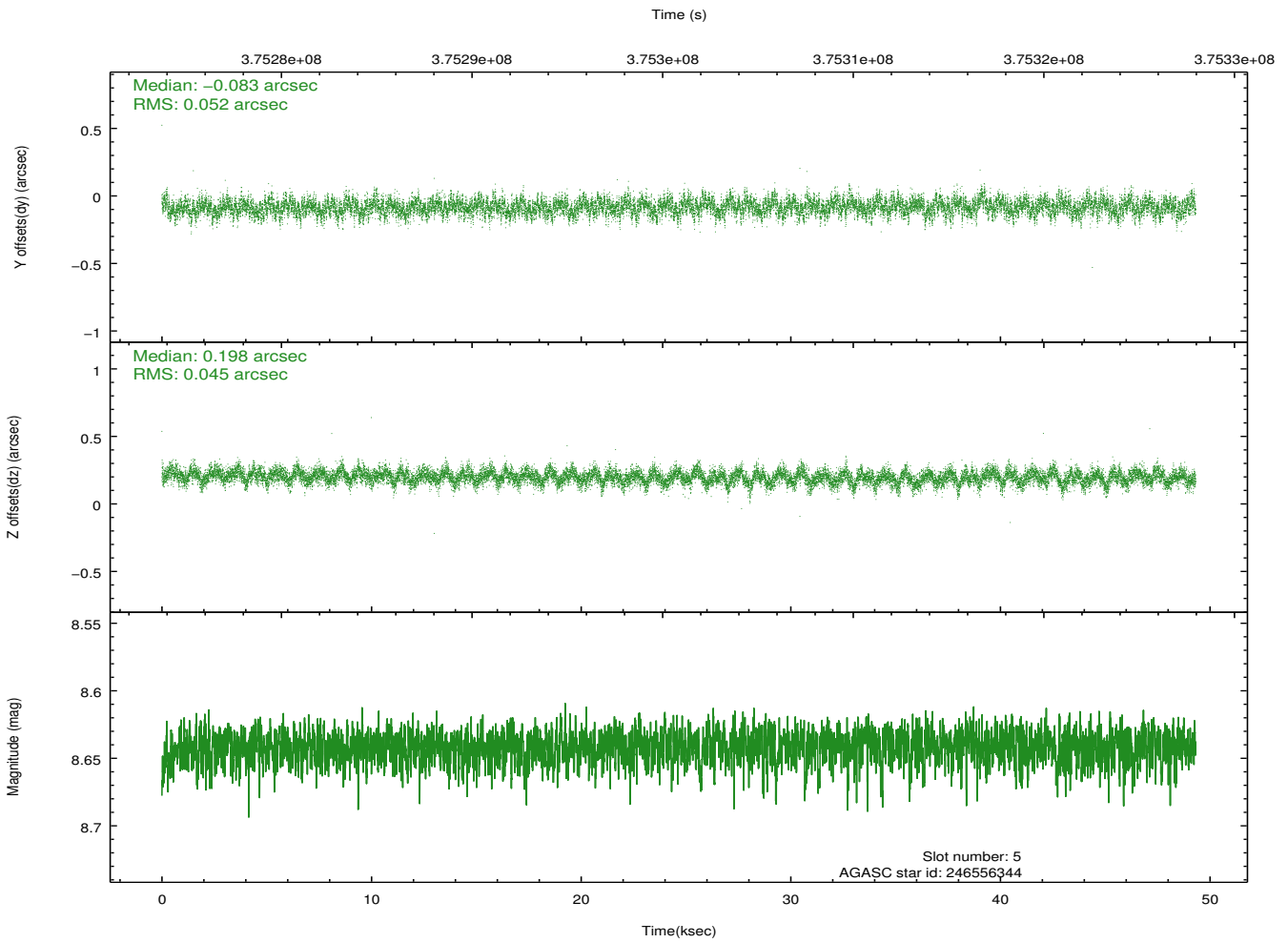
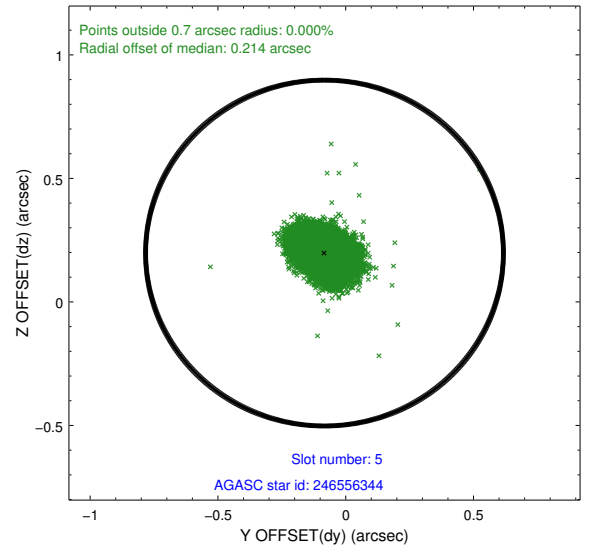
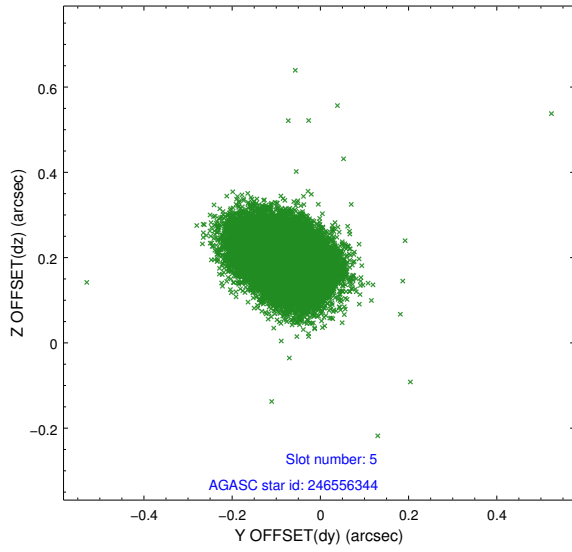
### 2.4.1 Slot 3



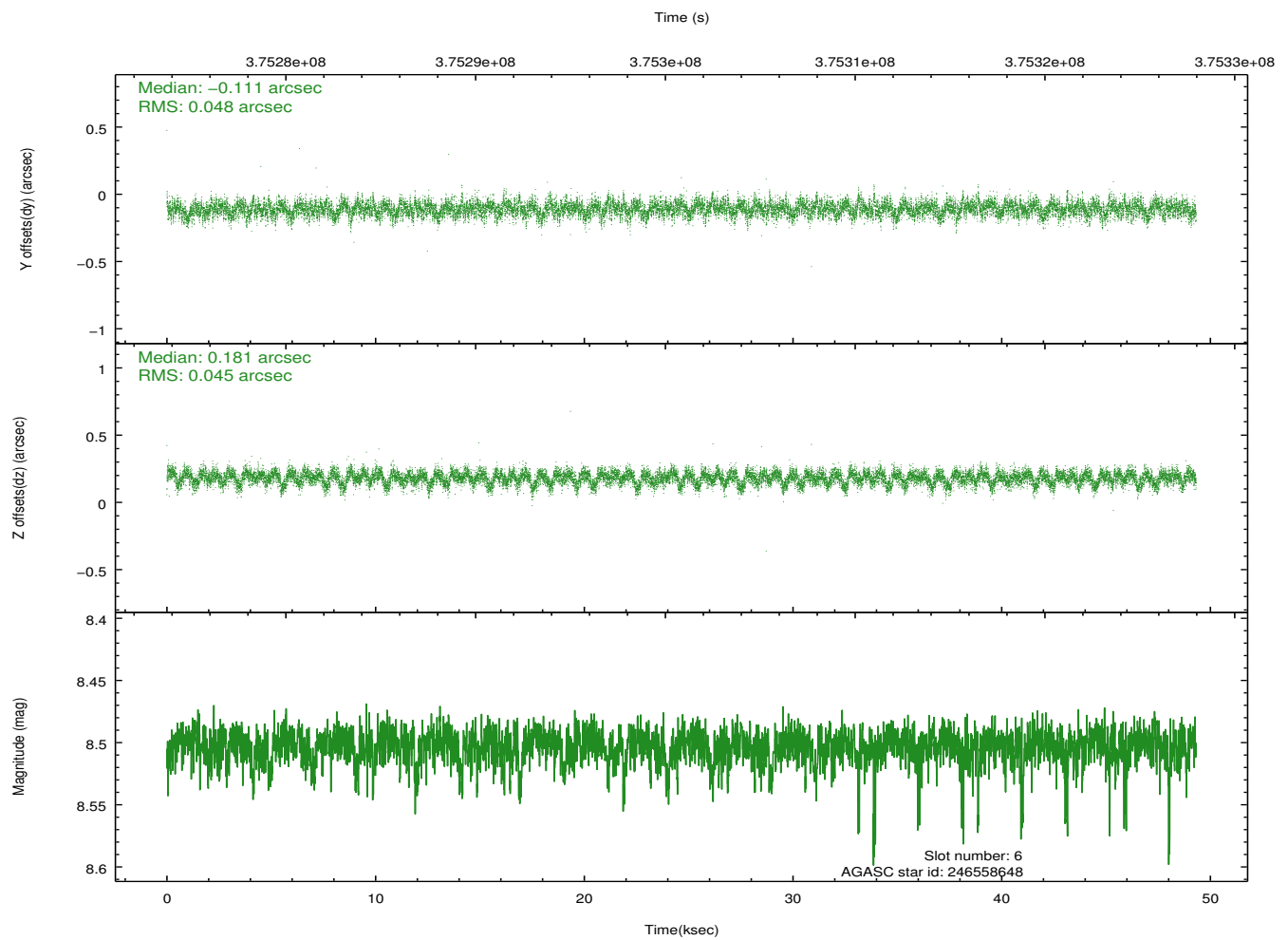
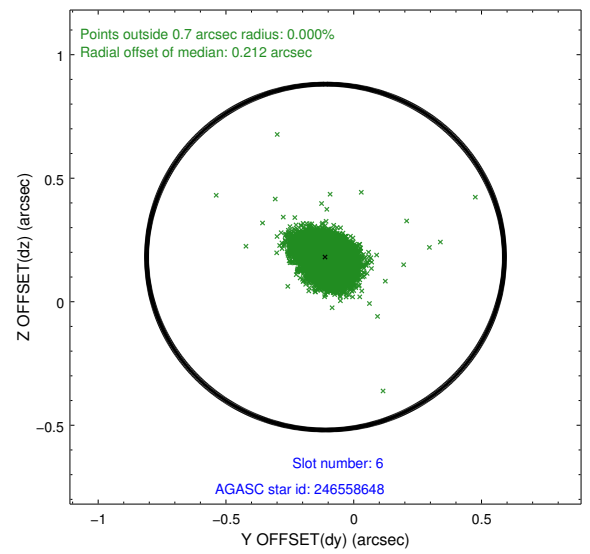
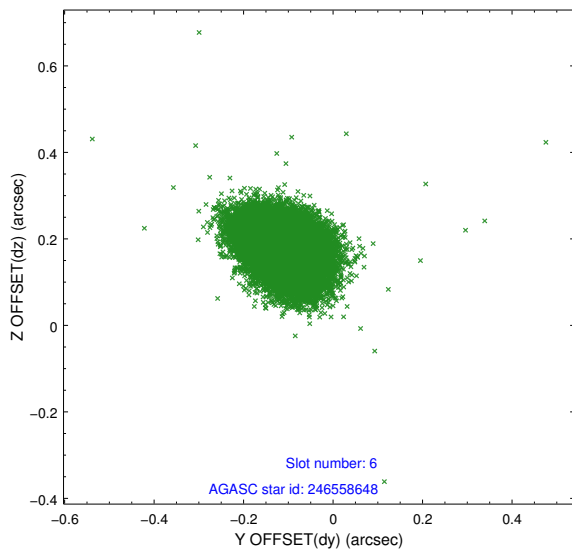
### 2.4.2 Slot 4



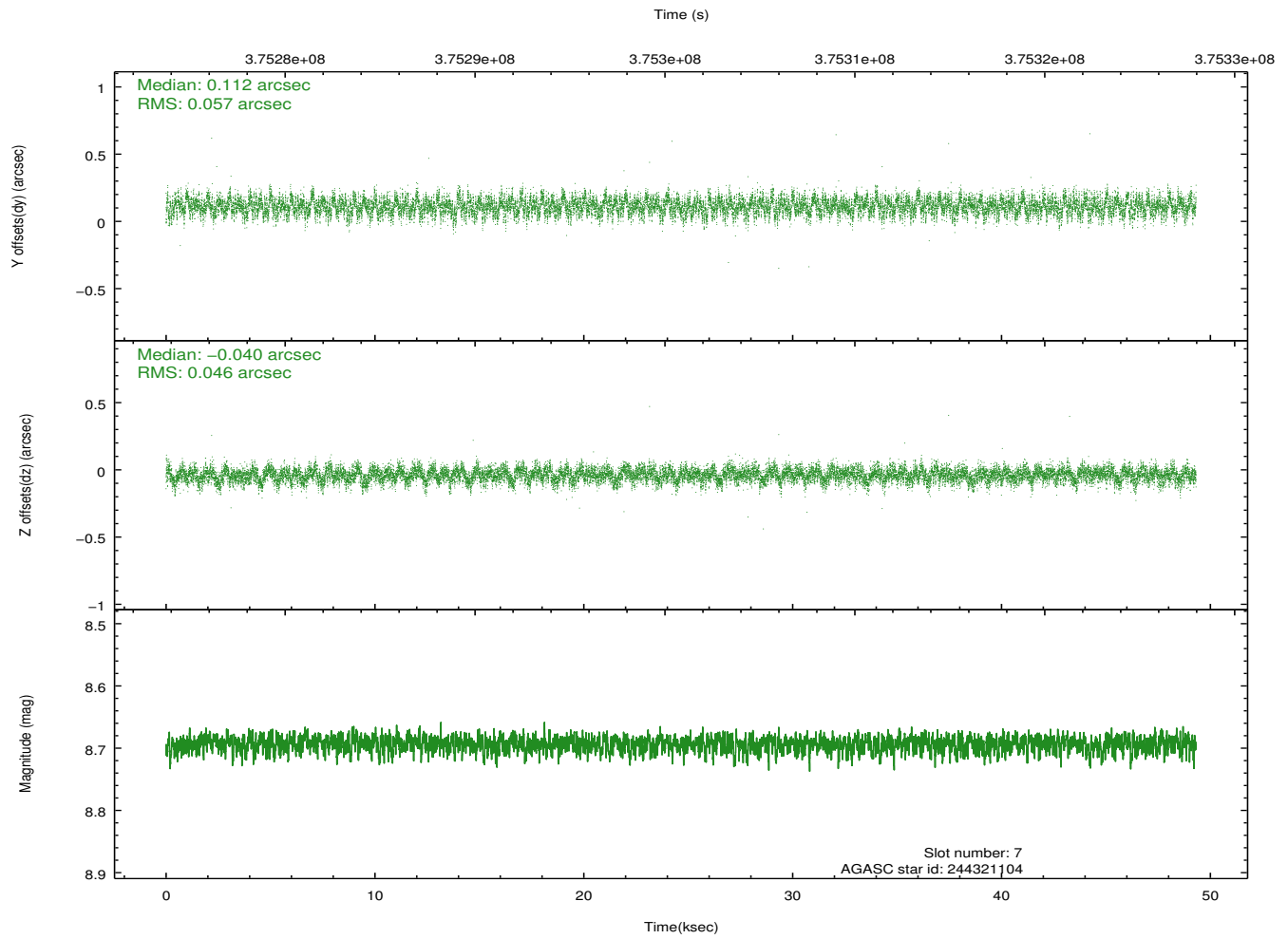
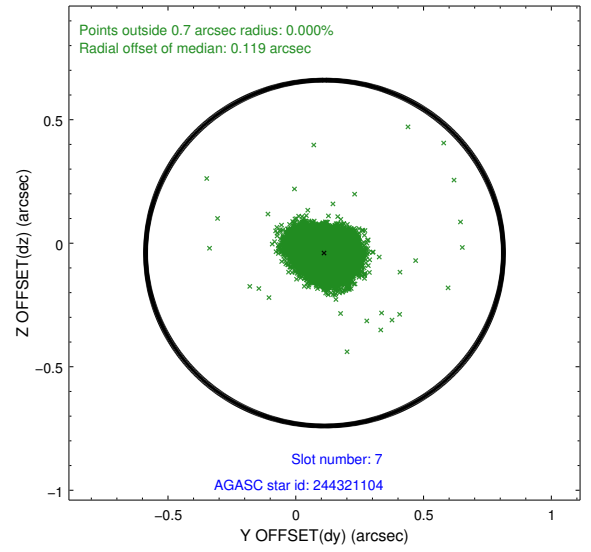
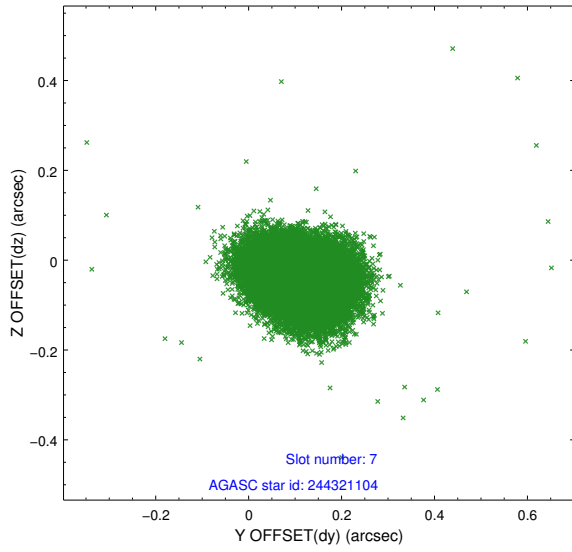
### 2.4.3 Slot 5



## 2.4.4 Slot 6

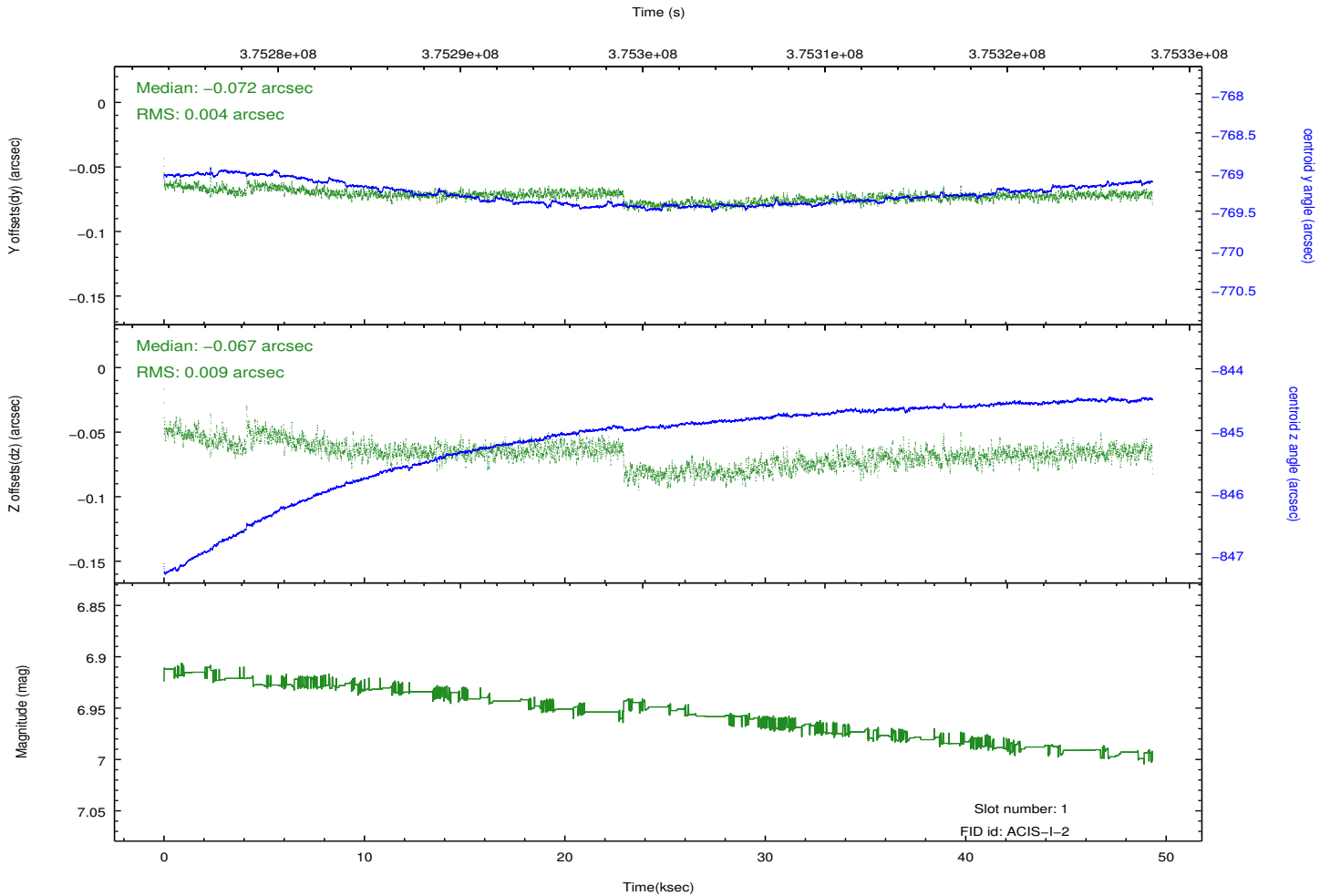
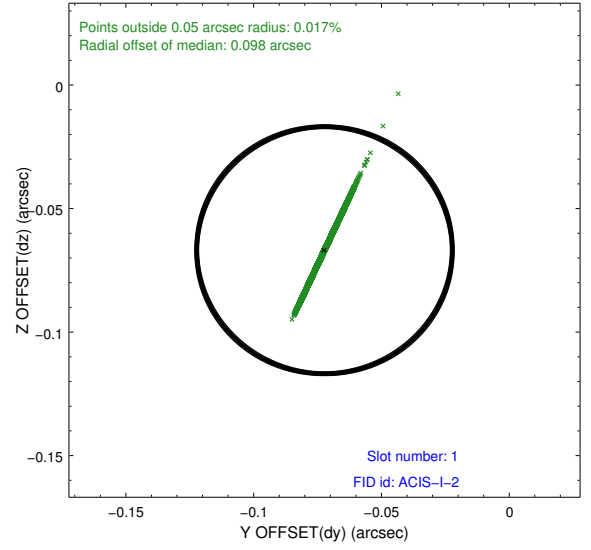
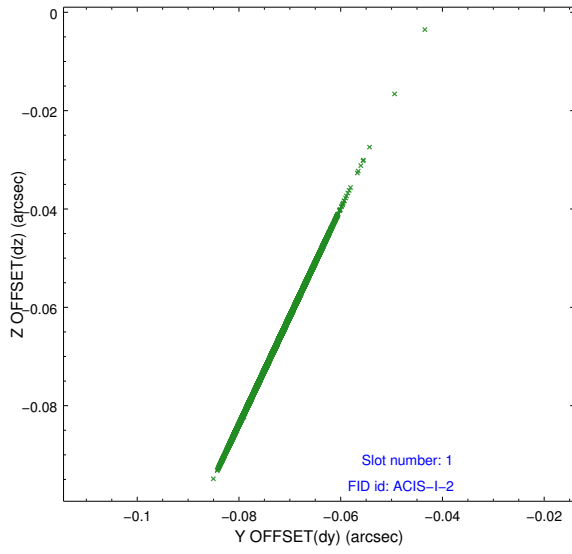


### 2.4.5 Slot 7

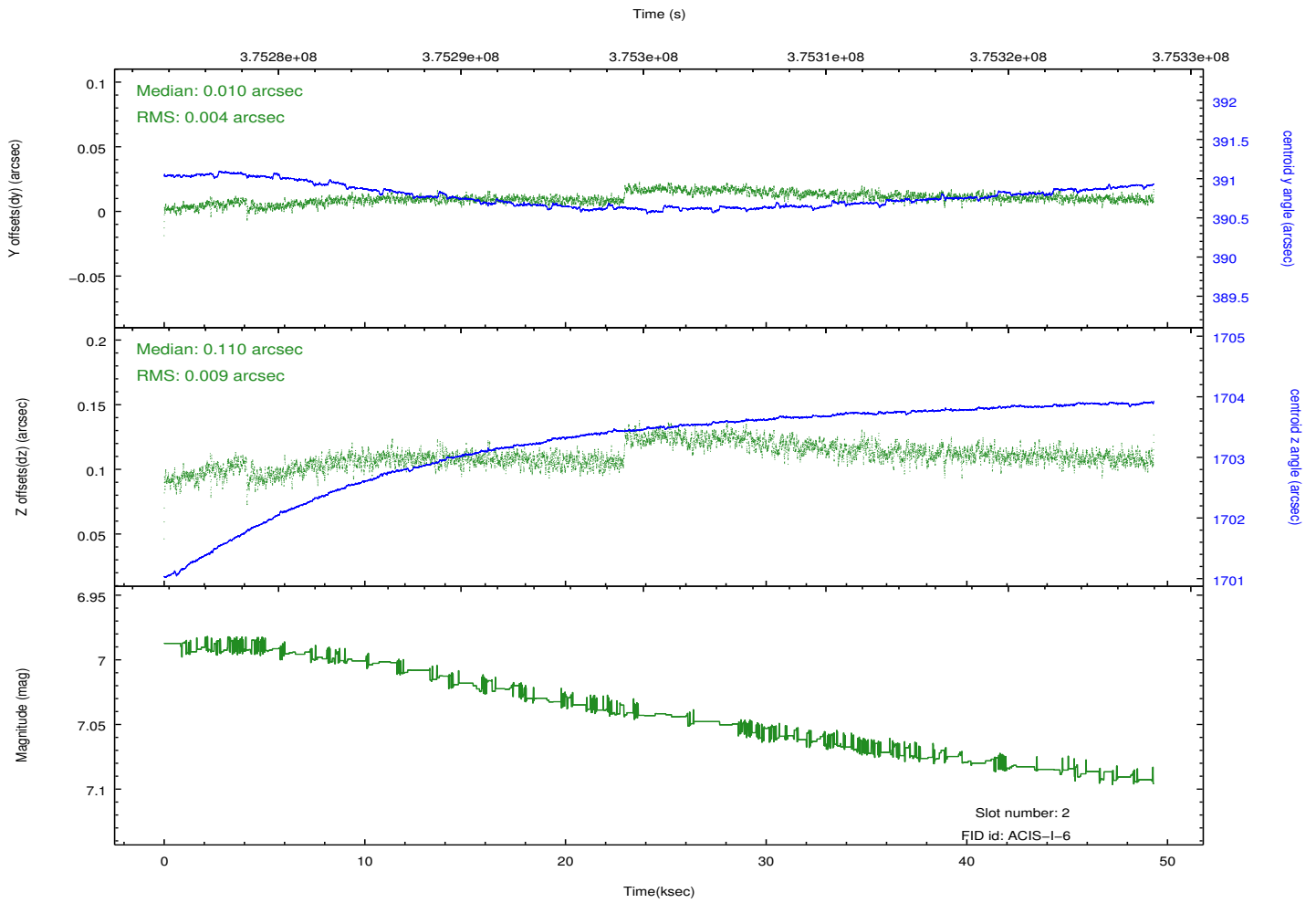
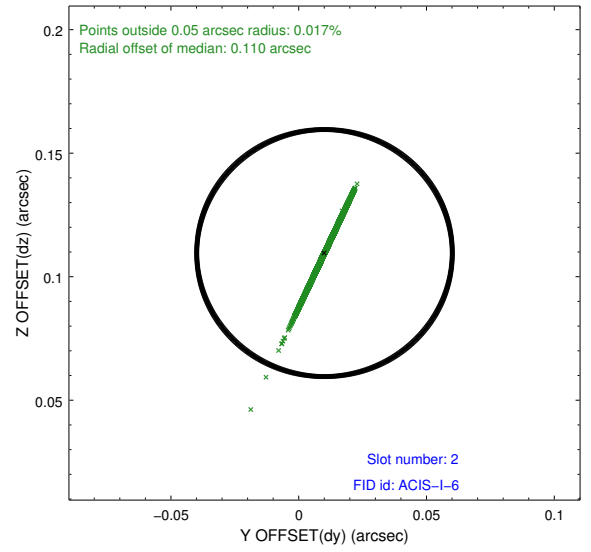
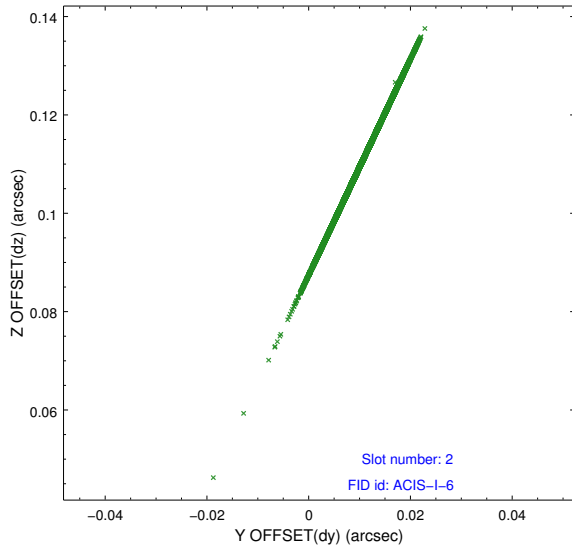


## 2.5 FID Slots

### 2.5.1 Slot 1



## 2.5.2 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	48.946461970806

## A.2 Comments

The fid light in slot 0 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this fid light from the solution.