

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7517 - L2 Version 2  
Chandra X-Ray Center

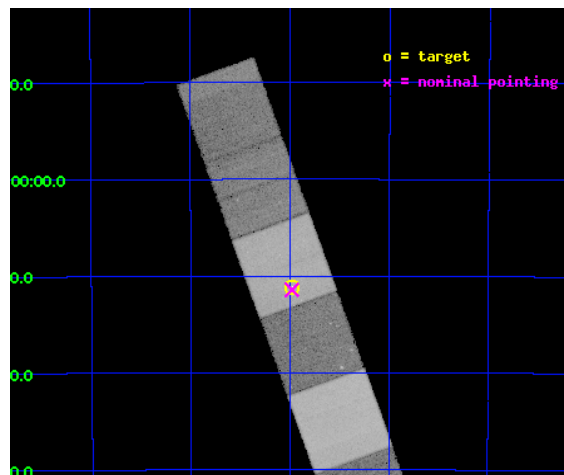
L2 Processing Date : May 22 2012

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# 1 Front

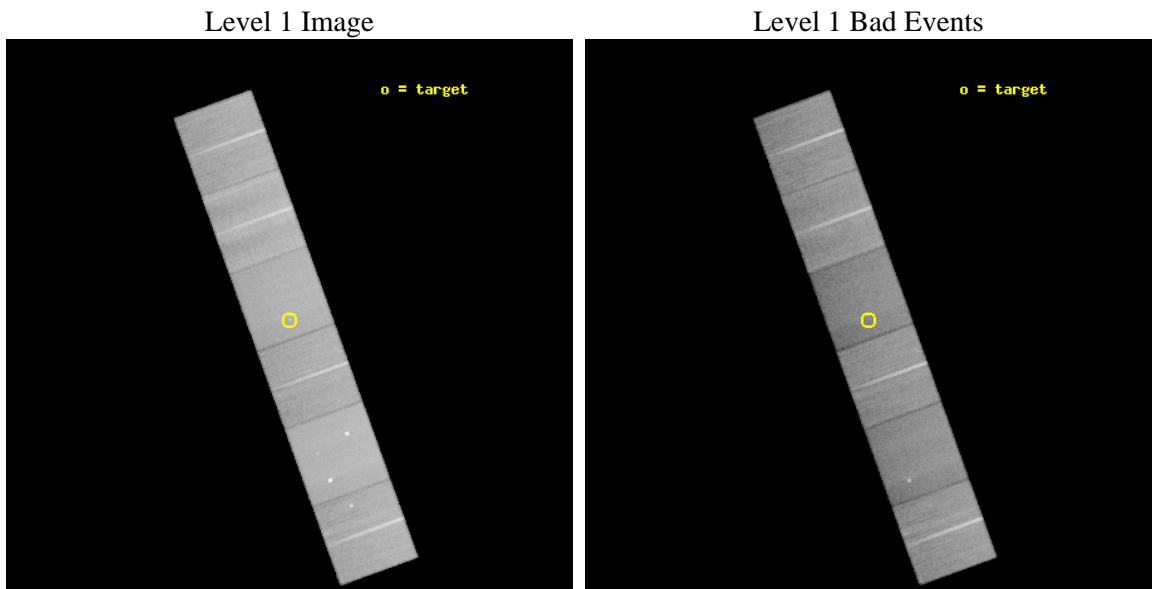
seq_num	400627	Sequence number
obs_id	7517	Observation id
title	From Super-Eddington to zero: following a Z source into quiescence	&#160
observer	Dr Jeroen Homan	Principal investigator
object	XTE J1701-462	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	255.243583	Observer's specified target RA [deg]
dec_targ	-46.185723	Observer's specified target Dec [deg]
ra_nom	255.24501879475	Nominal RA [deg]
dec_nom	-46.190452759418	Nominal Dec [deg]
roll_nom	250.11290533267	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40438.399849415	Sum of GTIs [s]
livetime	39926.34448144	Livetime [s]
ontime4	40438.399849415	Sum of GTIs [s]
ontime5	40438.399849415	Sum of GTIs [s]
ontime6	40435.158879101	Sum of GTIs [s]
ontime7	40438.399849415	Sum of GTIs [s]
ontime8	40438.399849415	Sum of GTIs [s]
ontime9	40438.399849415	Sum of GTIs [s]
l2events	516980	Number of level 2 events



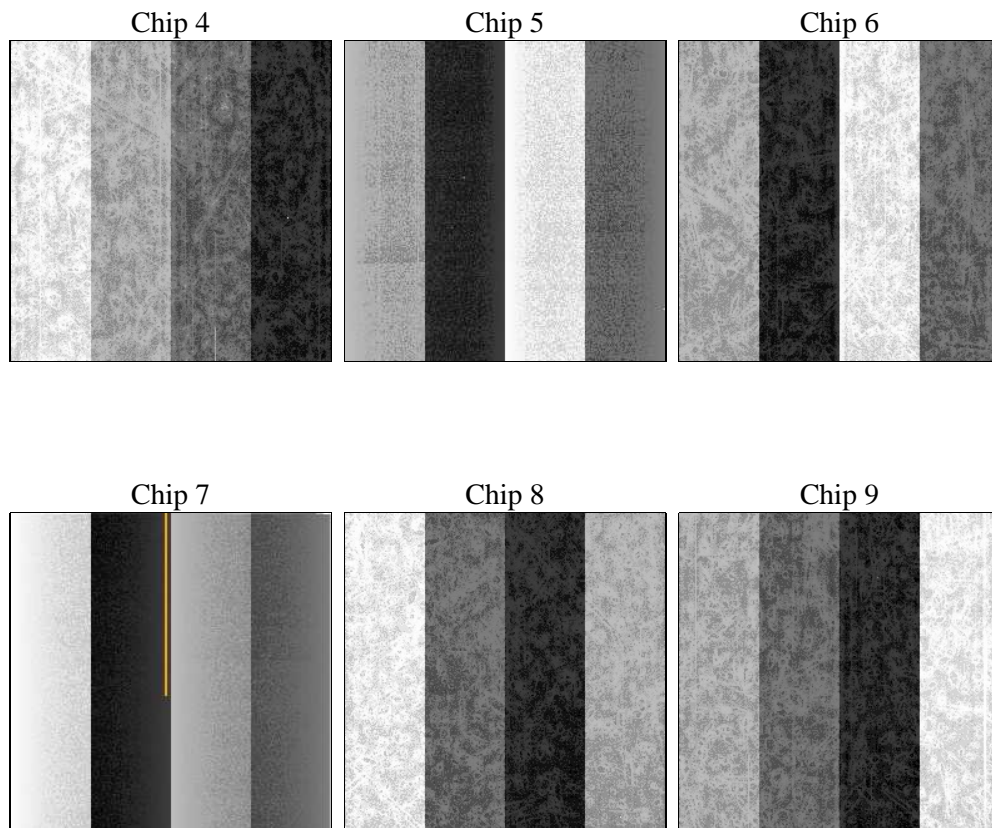
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40300.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	40438.399849415	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime4	40438.399849415	Sum of GTIs [s]
date	2012-05-22T23:03:07	Date and time of file creation	ontime5	40438.399849415	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	40435.158879101	Sum of GTIs [s]
			ontime7	40438.399849415	Sum of GTIs [s]
			ontime8	40438.399849415	Sum of GTIs [s]
			ontime9	40438.399849415	Sum of GTIs [s]
			l1events	2344442	Number of level 1 events

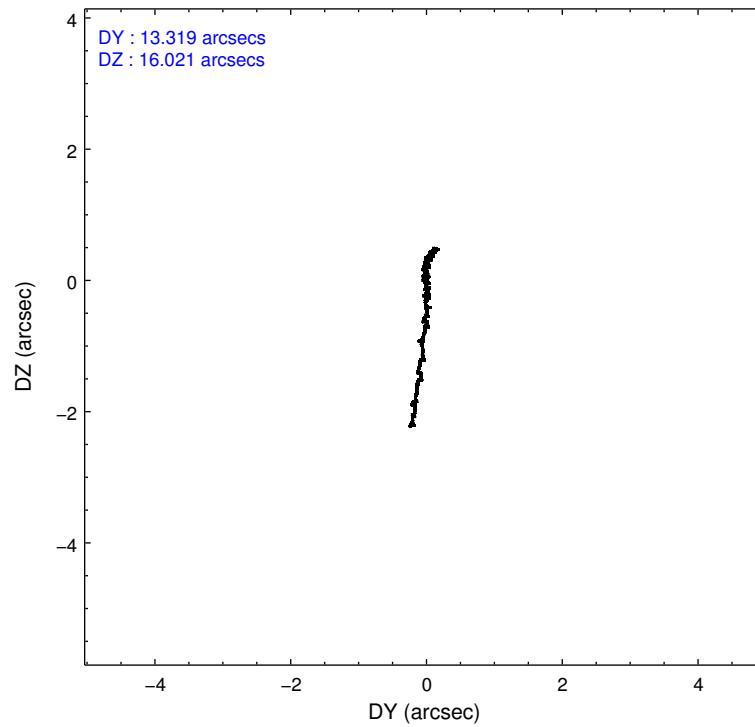
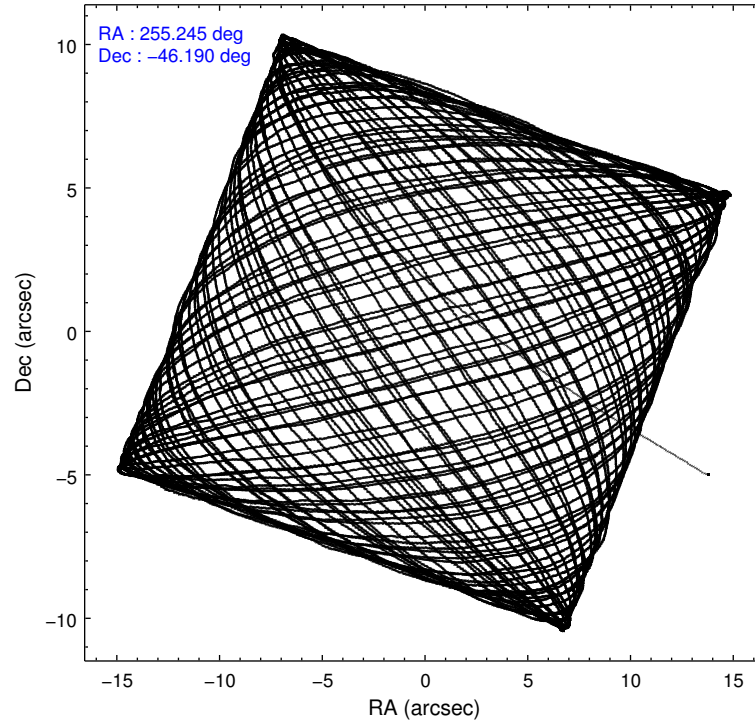
### 2.1.4 Events

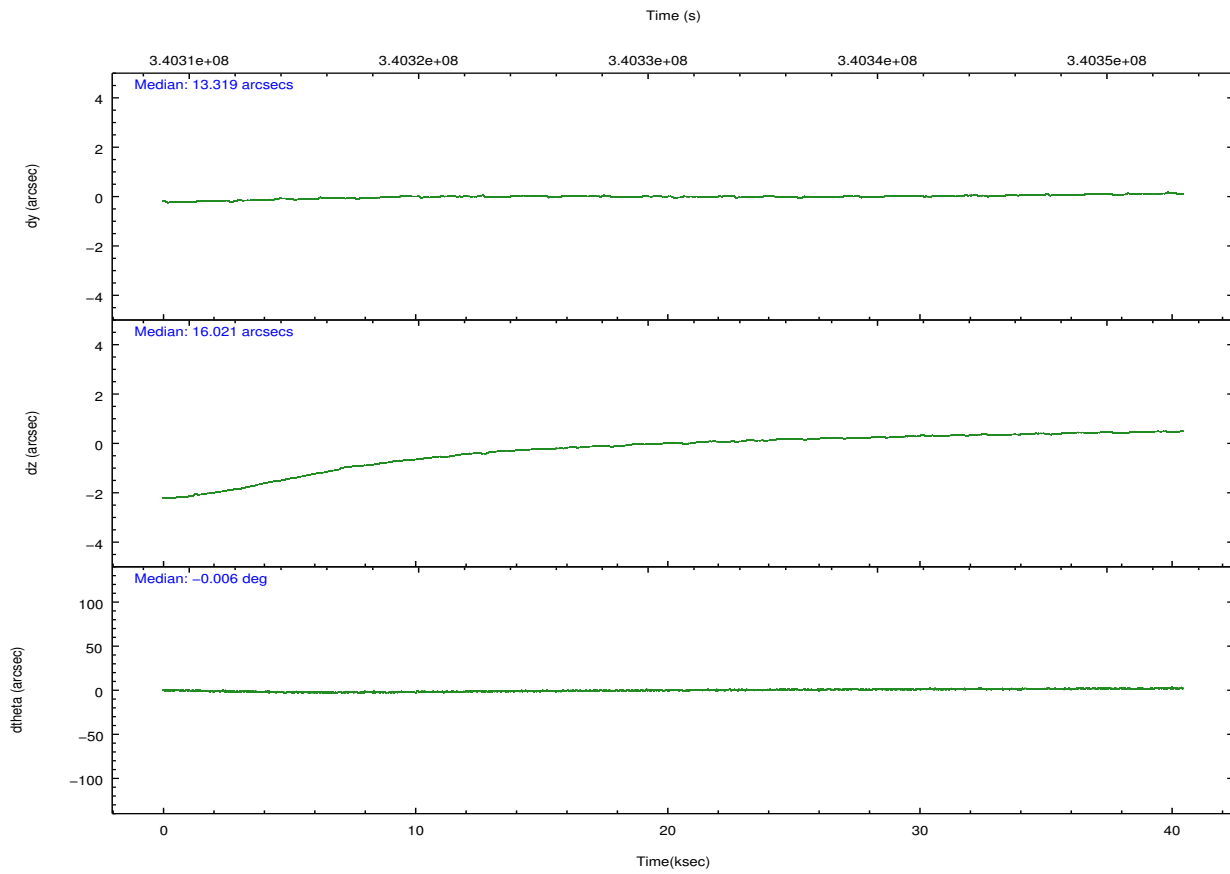
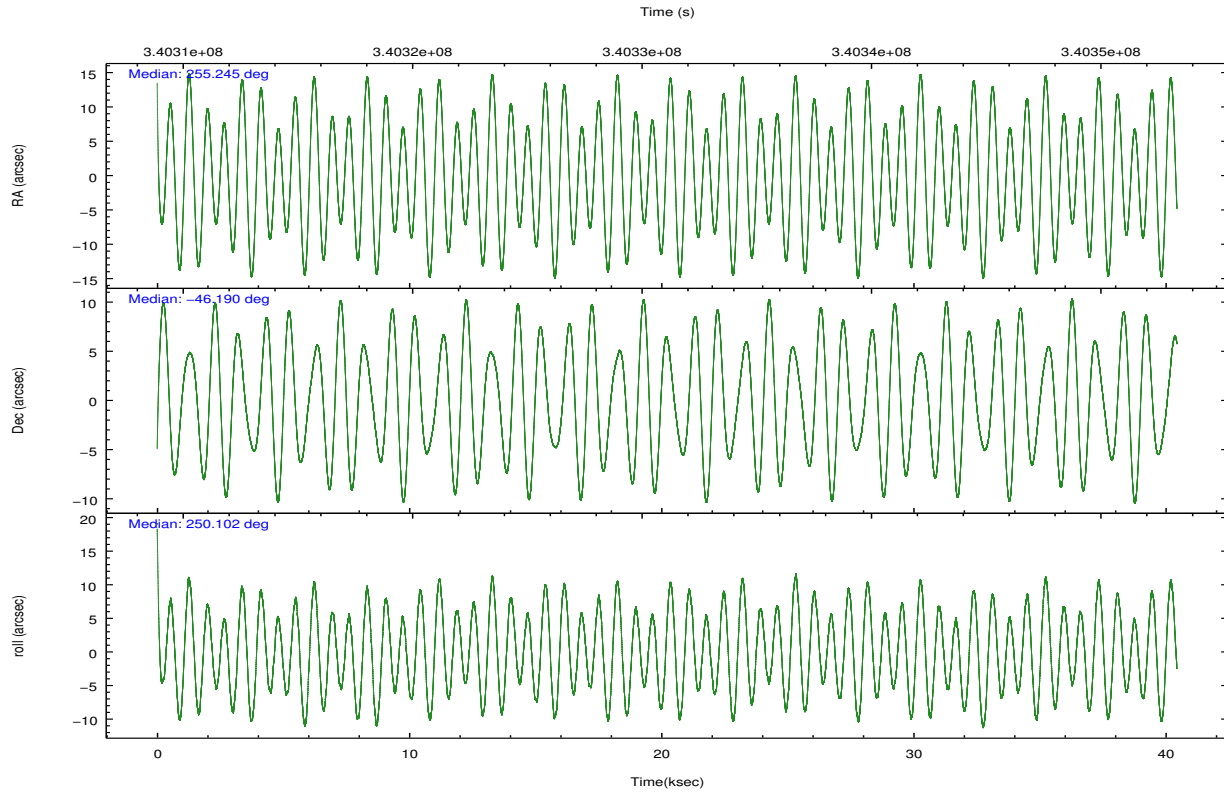
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	386164	474457	336715	380191	432478	334437	grade 0 events	17136	26755	13316	16061	32892	13898
rejected events	346312	236549	300951	207039	325581	297124		4%	5%	3%	4%	7%	4%
rejected %	89%	49%	89%	54%	75%	88%	grade 1 events	373	2213	346	511	369	219
								0%	0%	0%	0%	0%	0%
							grade 2 events	8937	70775	7708	35839	24484	8085
								2%	14%	2%	9%	5%	2%
							grade 3 events	3957	9939	3767	15867	11545	4013
								1%	2%	1%	4%	2%	1%
							grade 4 events	3783	9466	3745	15593	10892	3792
								0%	1%	1%	4%	2%	1%
							grade 5 events	13671	36916	13739	40059	20288	14881
								3%	7%	4%	10%	4%	4%
							grade 6 events	6194	122051	7390	90515	27542	7681
								1%	25%	2%	23%	6%	2%
							grade 7 events	332113	196342	286704	165746	304466	281868
								86%	41%	85%	43%	70%	84%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	255.237552	255.2450187947537	Subarray requested	NONE	NONE
[deg] Pointing Dec	-46.163622	-46.19045275941795	Alternating exposures requested	N	N
[deg] Pointing Roll	249.950892	250.1129053326745	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	340311009.184000	340309867.79721			
Observation start date	2008-10-13T18:49:04	2008-10-13T18:31:07			
[s] Observation end time (MET)	340351309.184000	340352071.66179			
Observation end date	2008-10-14T06:00:44	2008-10-14T06:14:31			
Read mode	TIMED	TIMED			

## 2.3 Aspect



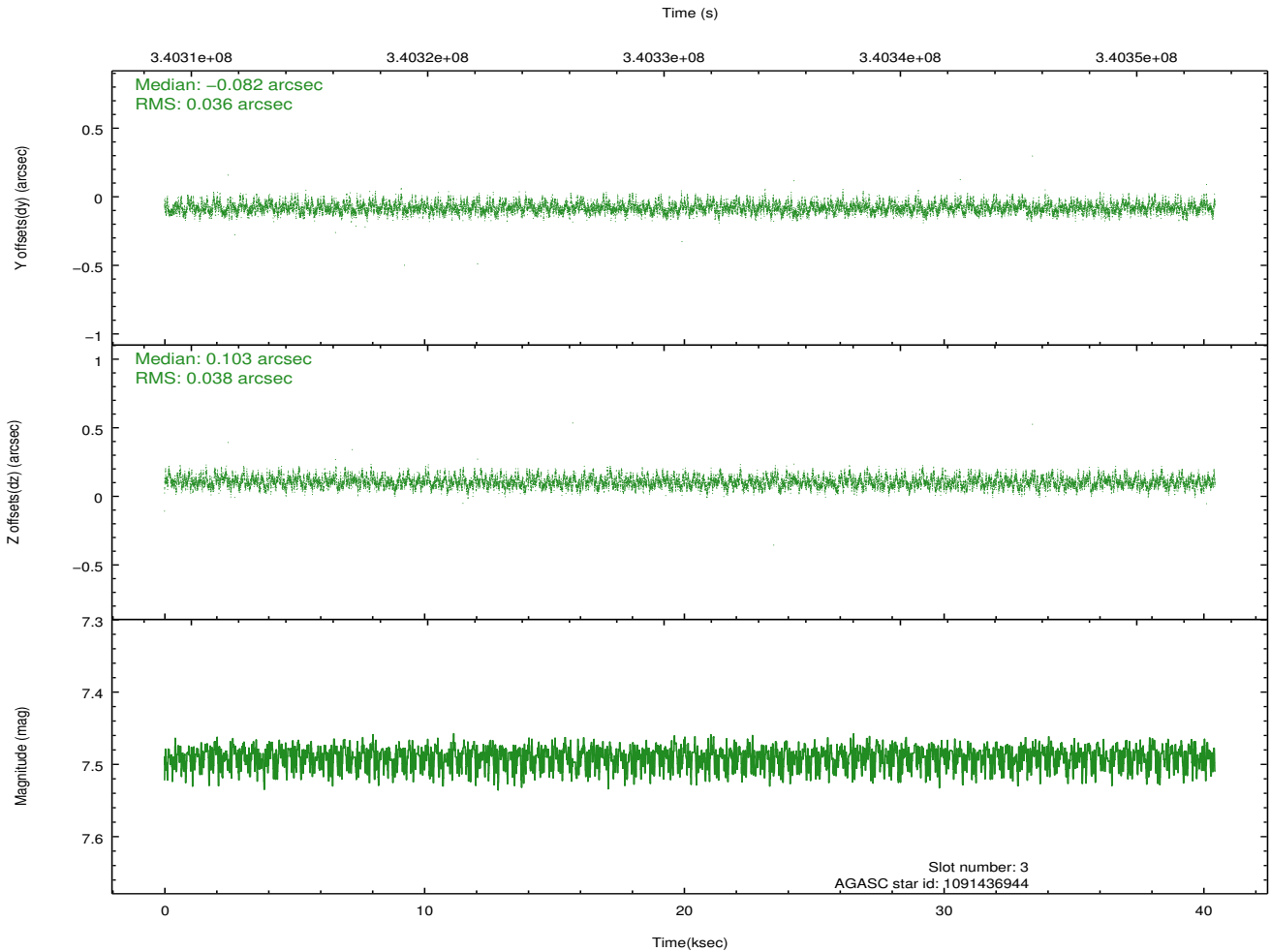
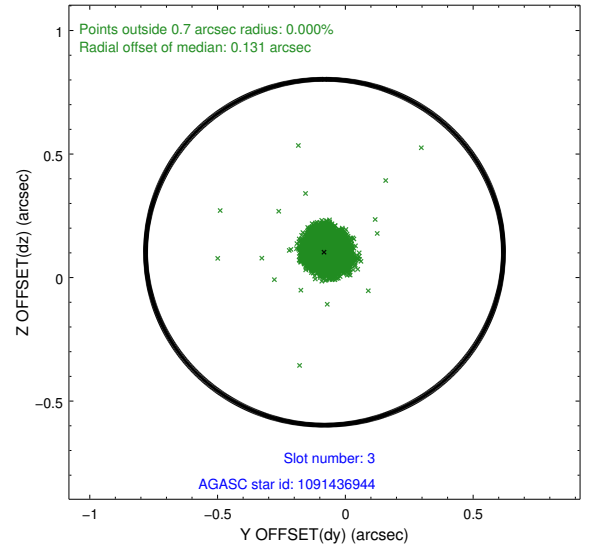
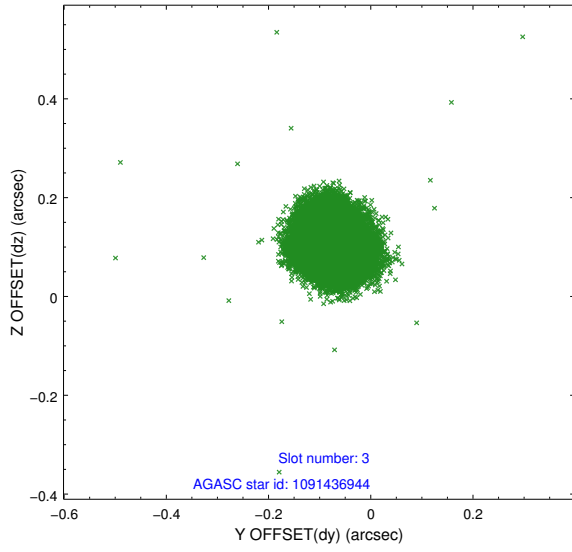


### Slot Statistics

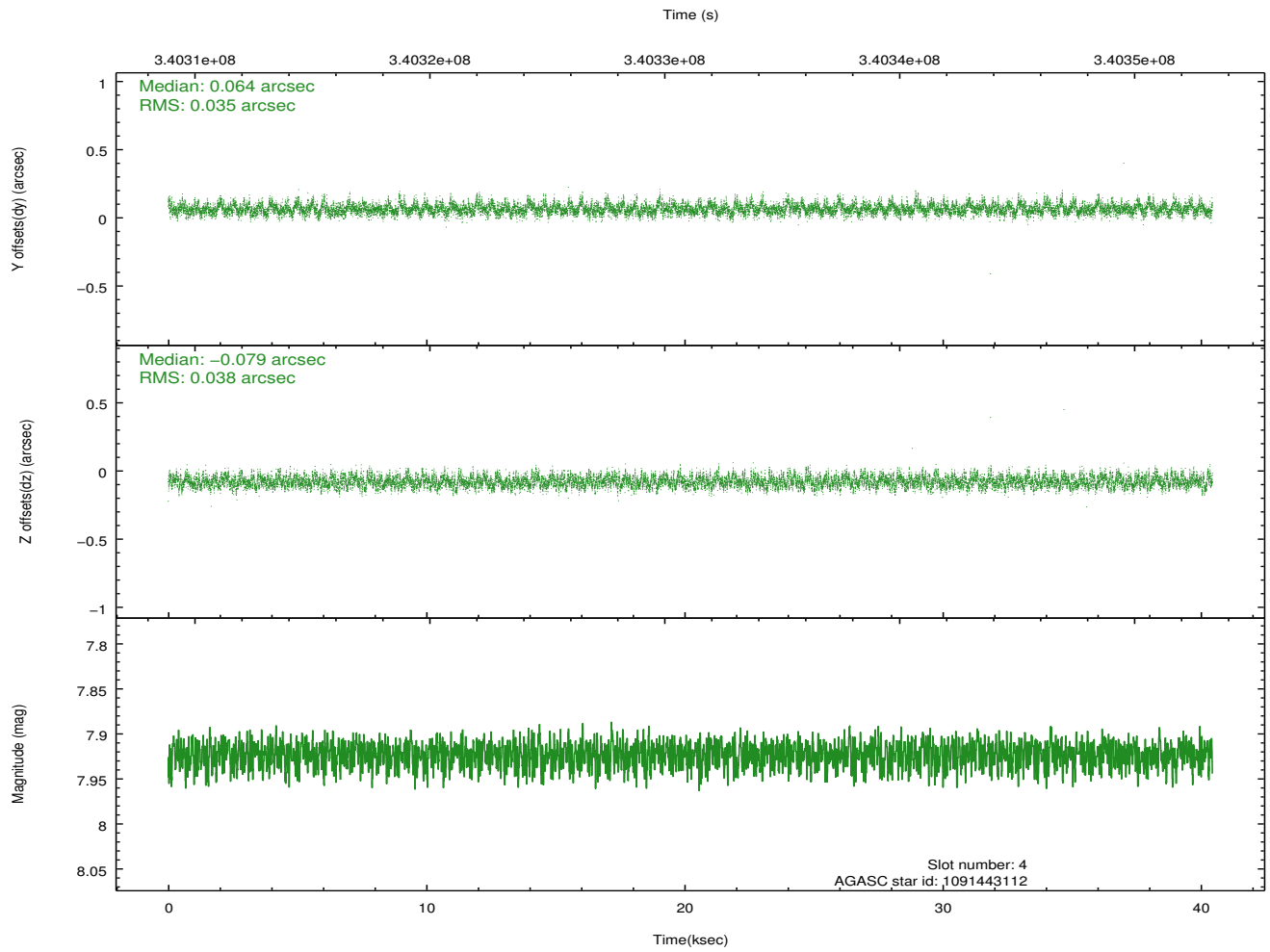
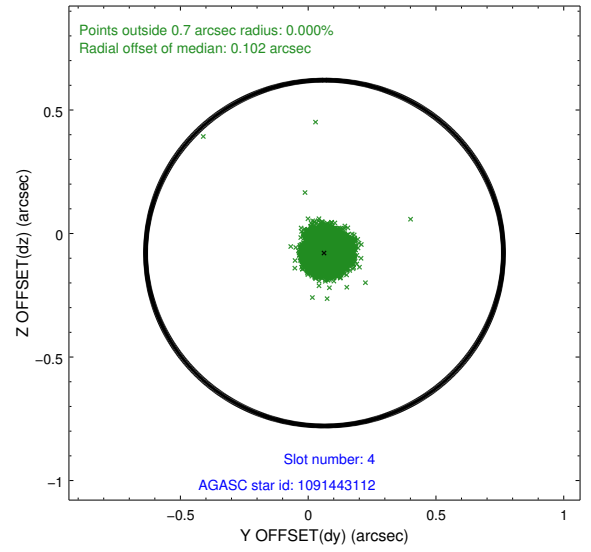
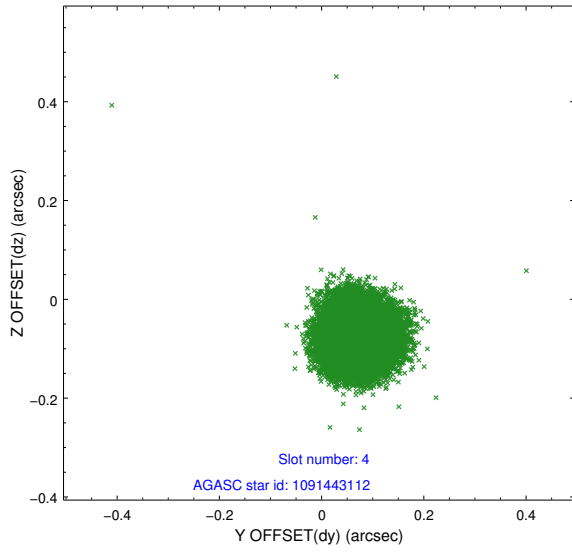
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.02	9865	0.082	-0.092	0.024	0.076	0.000000	0.000000	929.90	-1732.79
1	FID	ACIS-S-5	7.05	9865	-0.131	0.050	0.013	0.019	0.000000	0.000000	-1819.31	164.86
2	FID	ACIS-S-6	7.15	9864	0.027	0.053	0.014	0.079	0.000000	0.000000	395.37	808.84
3	GUIDE	1091436944	7.49	19726	-0.082	0.103	0.056	0.089	255.747540	-46.187588	-350.69	1225.23
4	GUIDE	1091443112	7.92	19708	0.064	-0.079	0.055	0.088	254.637652	-45.920353	-301.47	-1709.47
5	GUIDE	1091443144	8.23	19719	-0.220	0.015	0.066	0.105	254.556494	-45.731344	-867.67	-2138.73
6	GUIDE	1091447448	8.16	19722	0.104	0.055	0.058	0.095	254.918350	-46.482919	1353.18	-348.28
7	GUIDE	1091446248	8.67	19712	0.132	-0.097	0.085	0.132	254.157495	-46.281563	1338.44	-2372.13

## 2.4 Star Slots

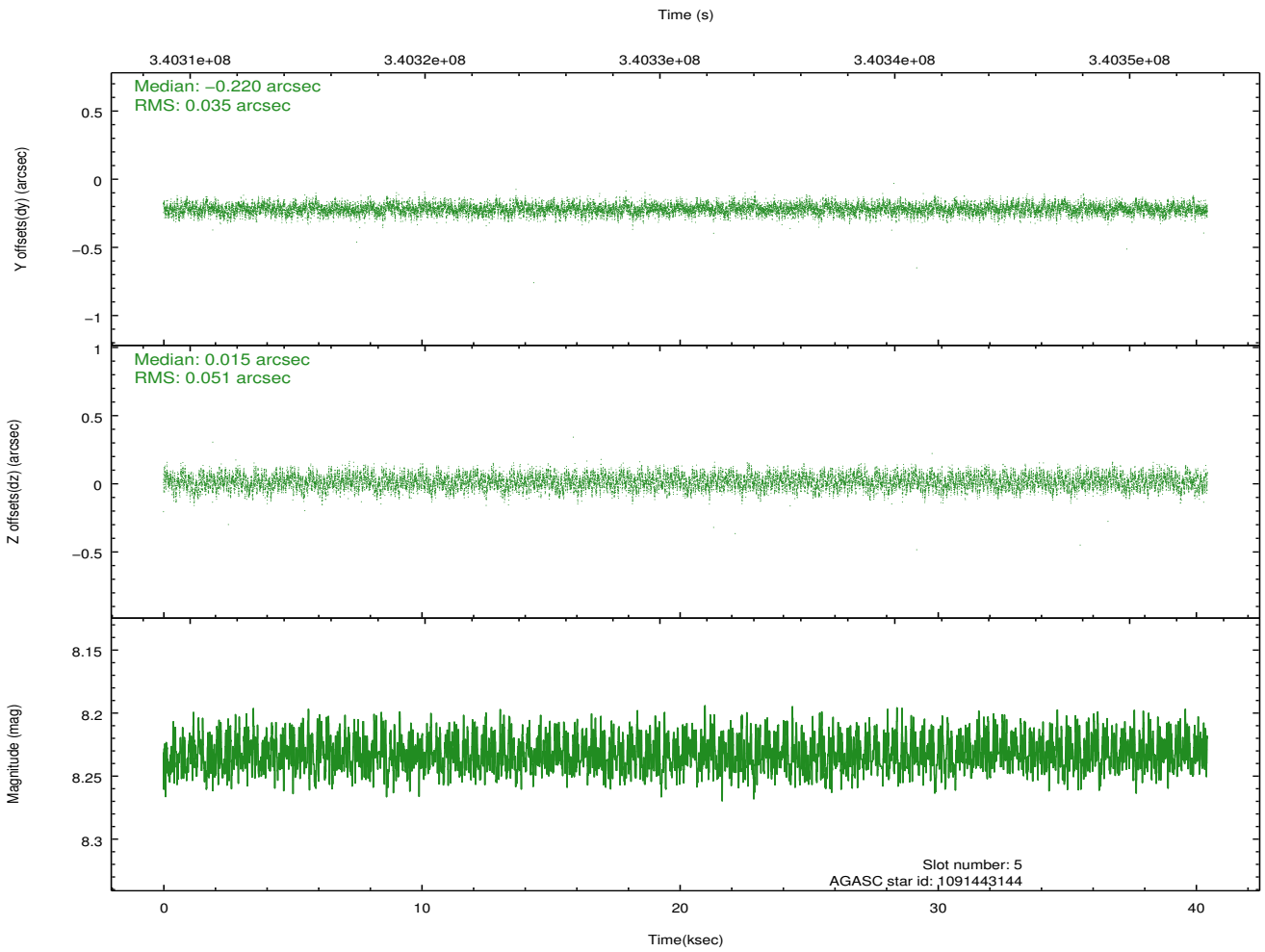
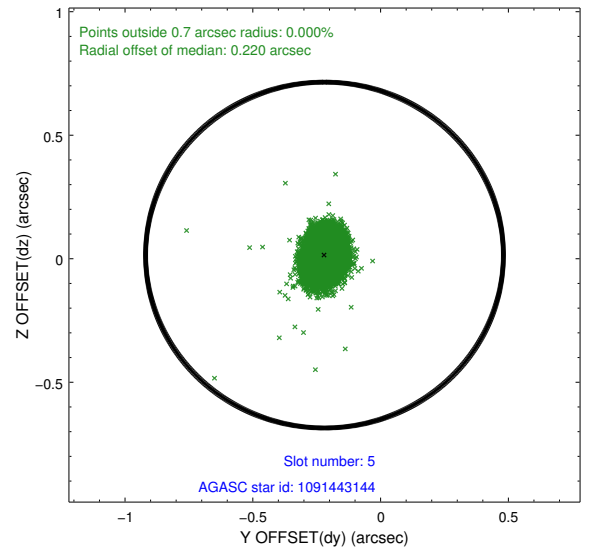
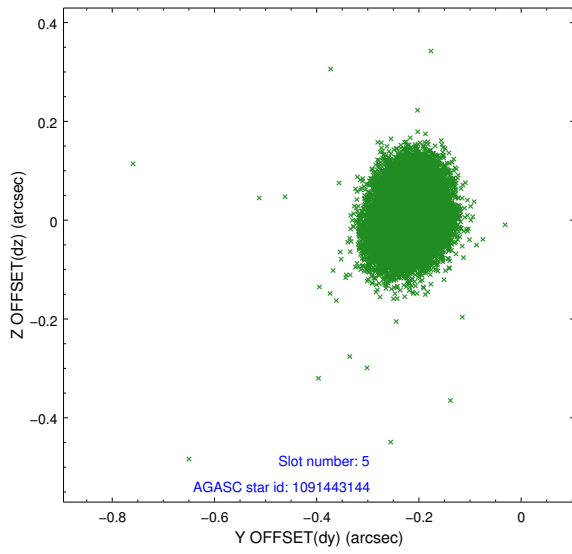
### 2.4.1 Slot 3



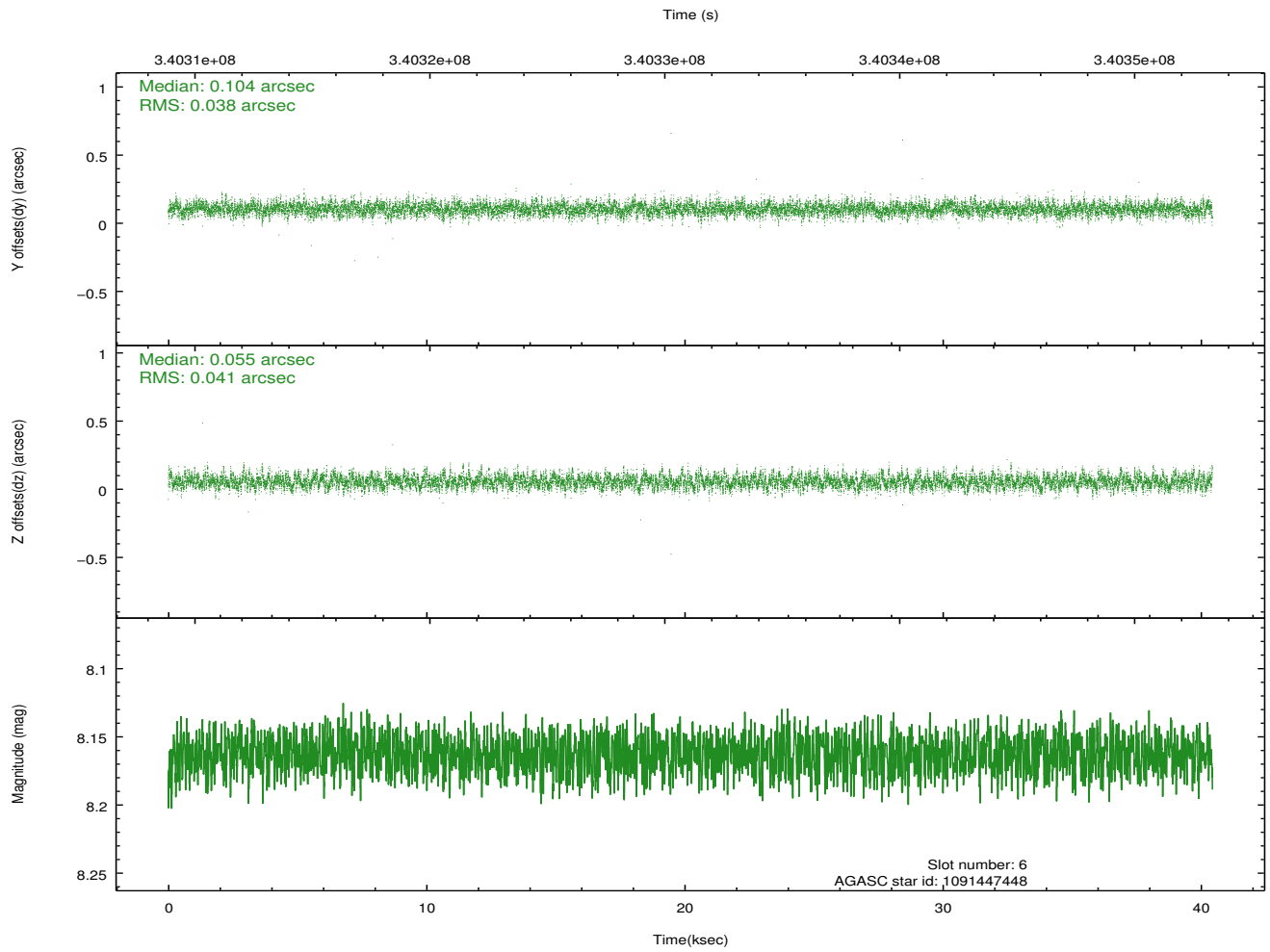
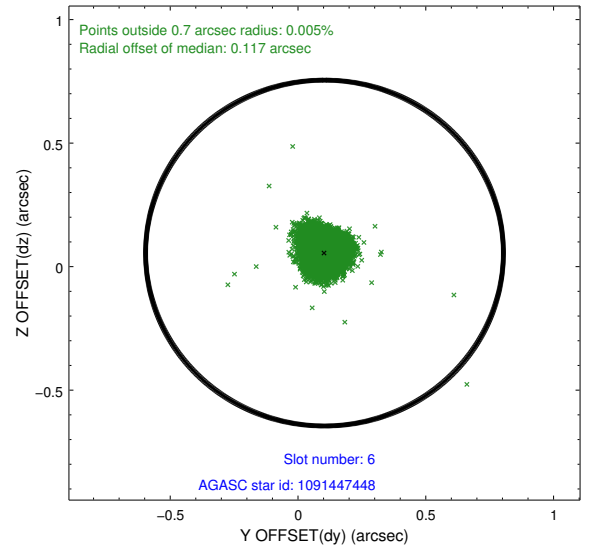
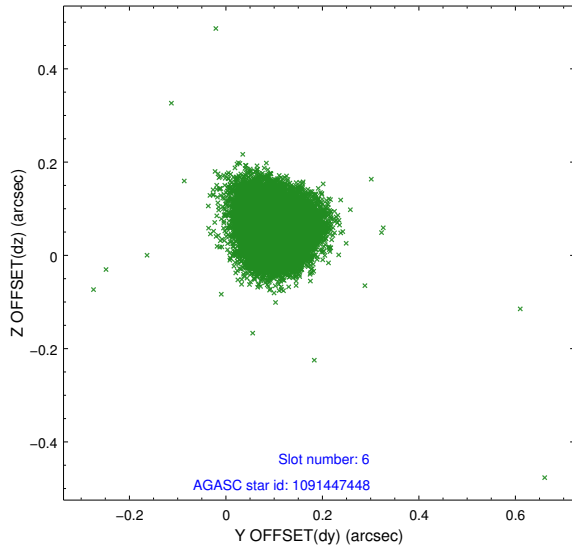
### 2.4.2 Slot 4



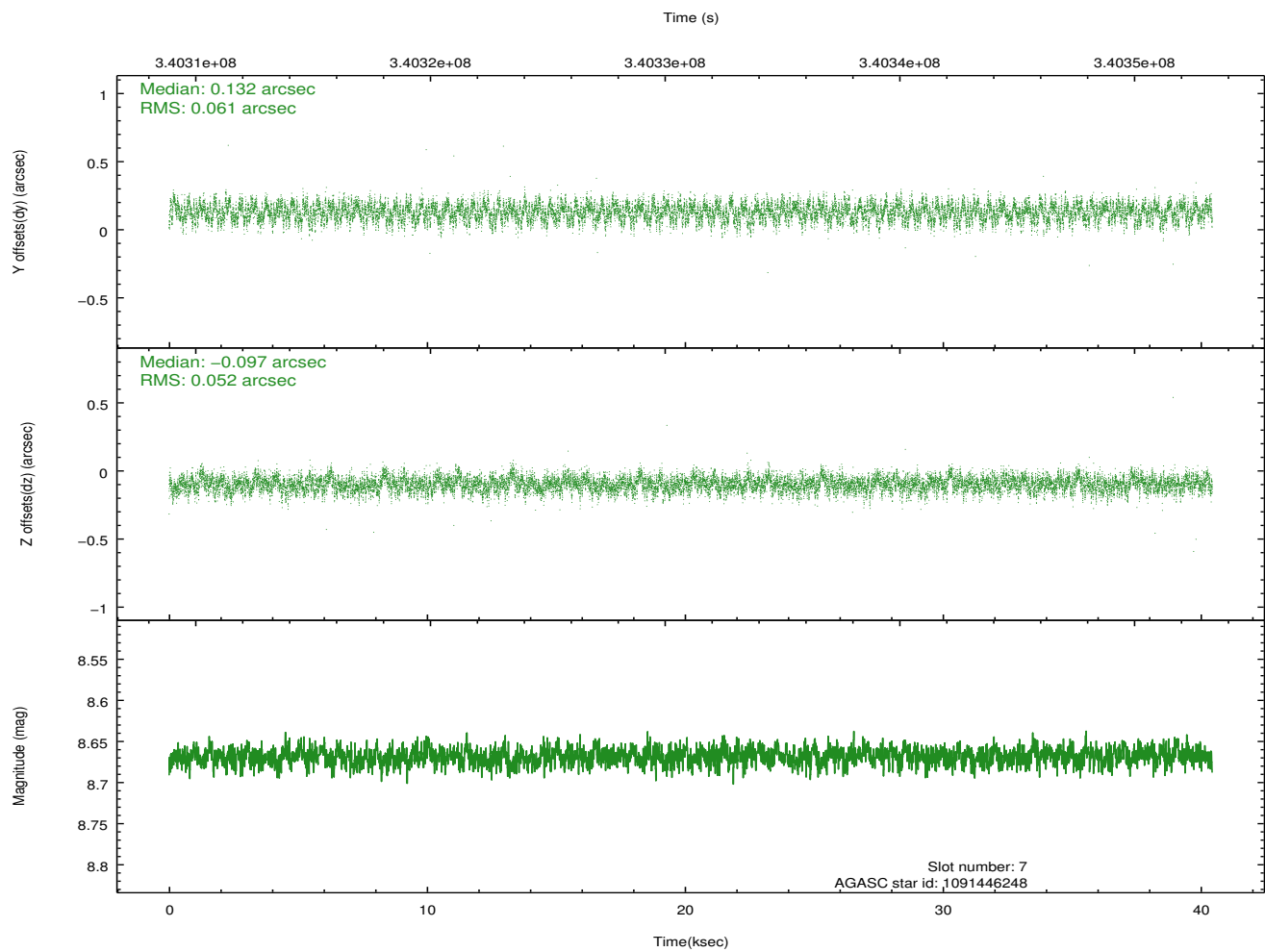
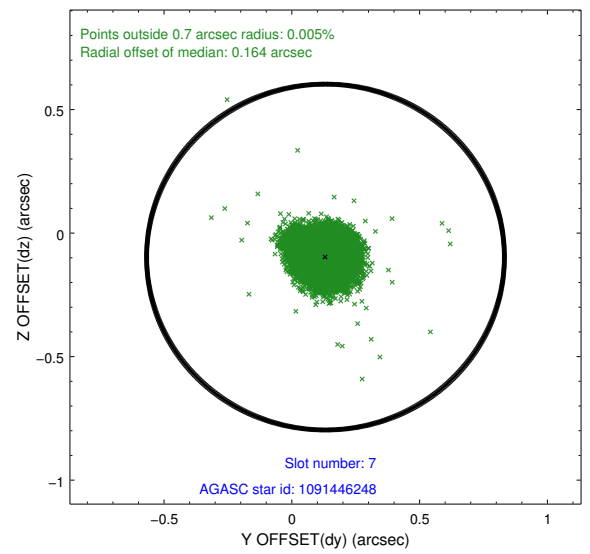
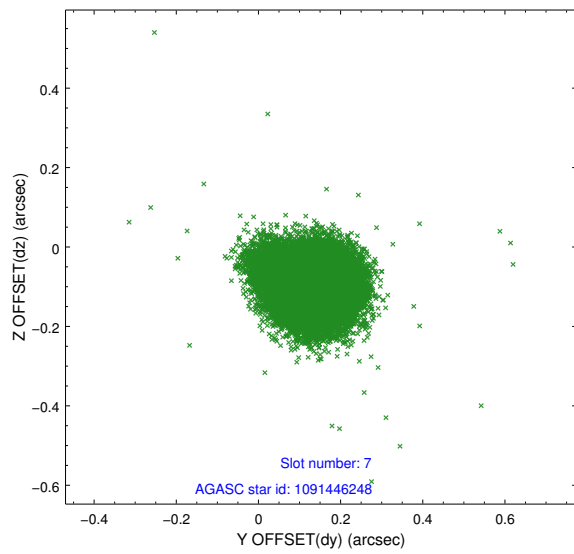
### 2.4.3 Slot 5



## 2.4.4 Slot 6

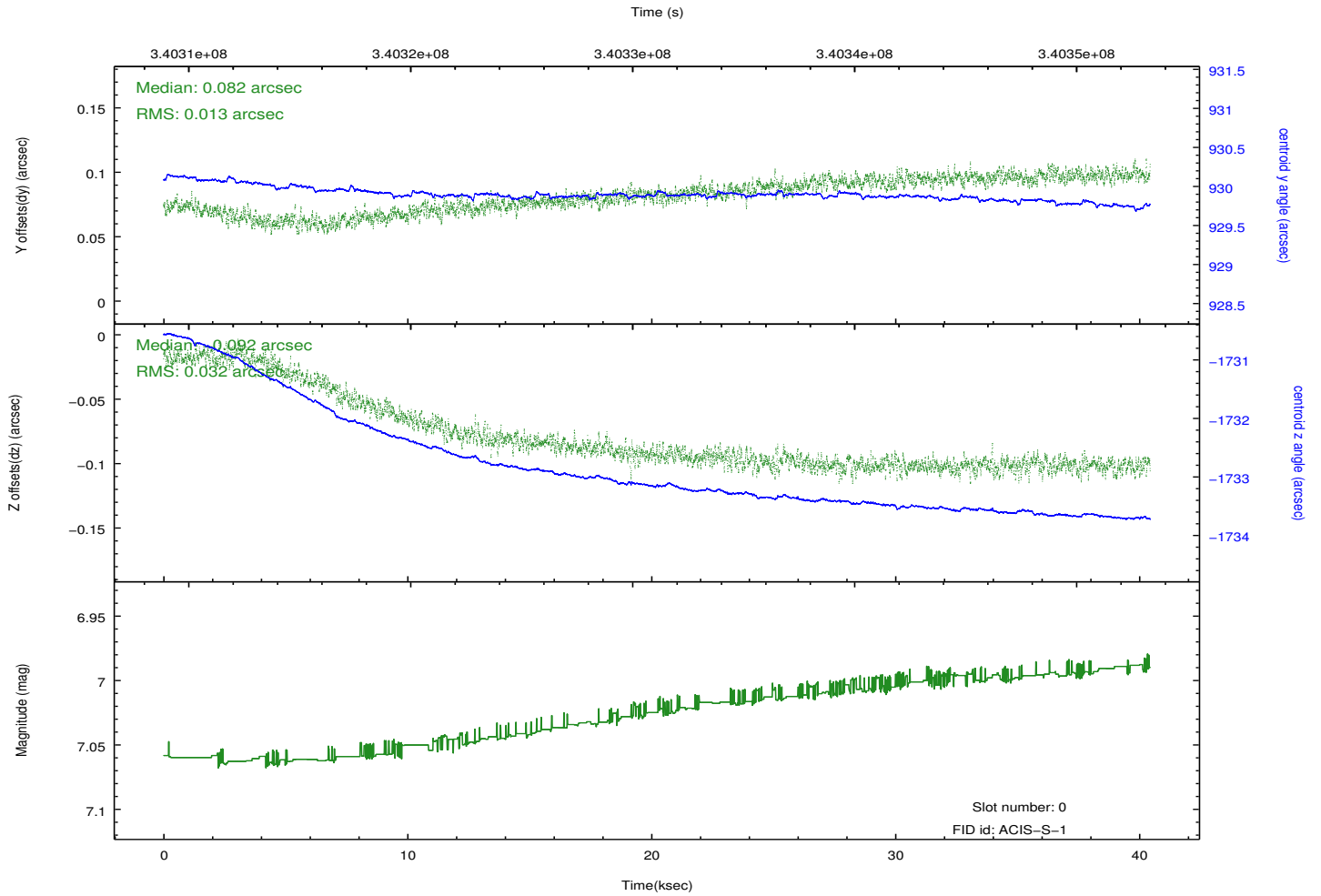
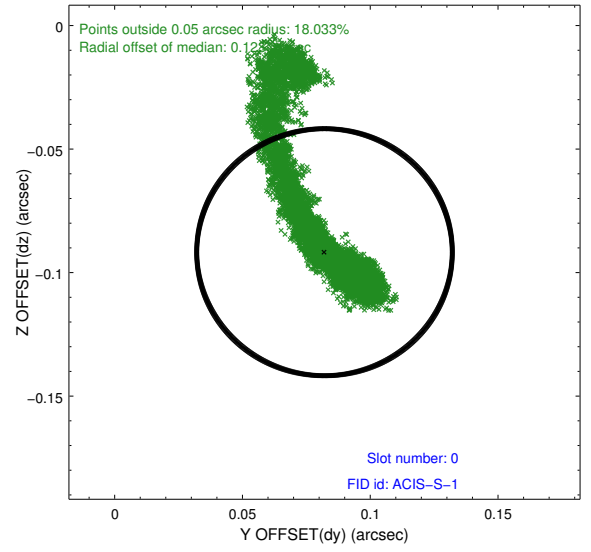
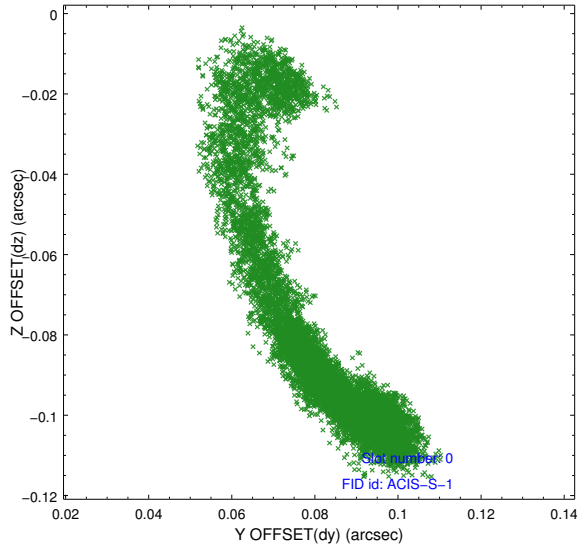


## 2.4.5 Slot 7

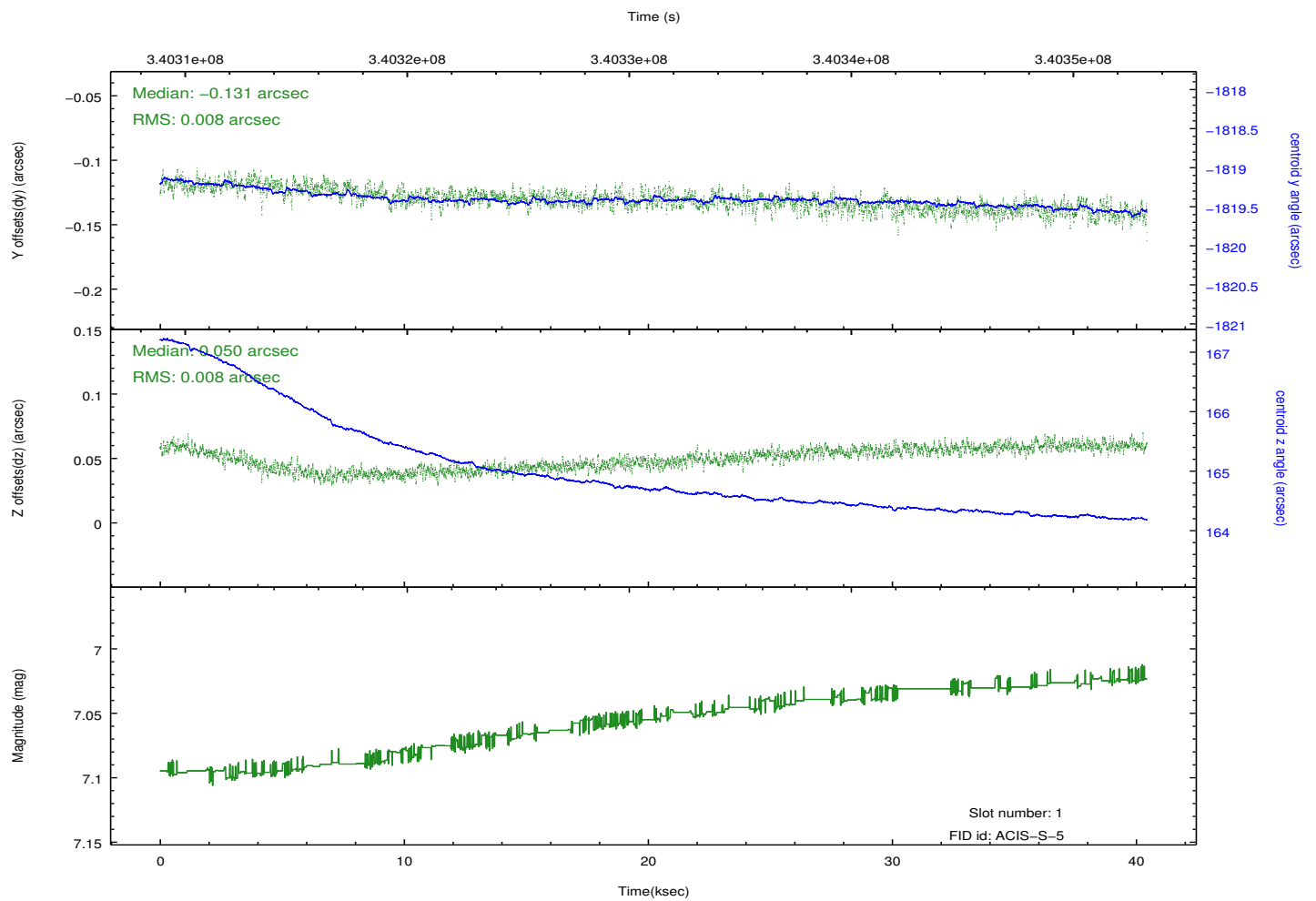
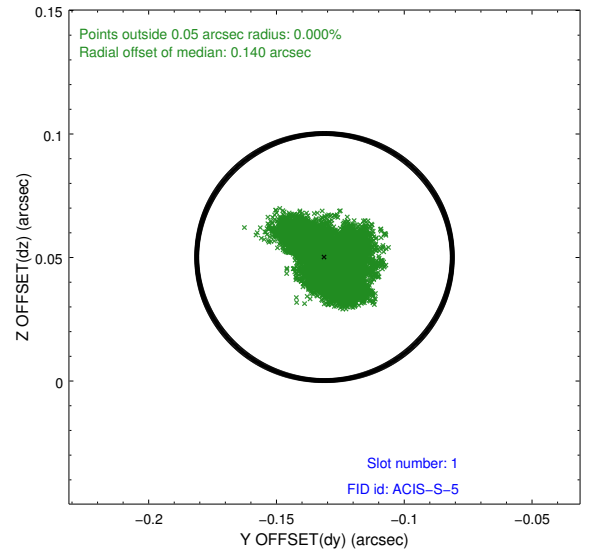
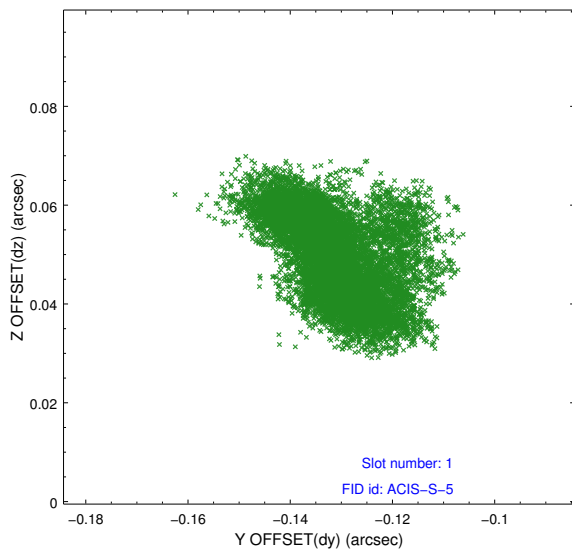


## 2.5 FID Slots

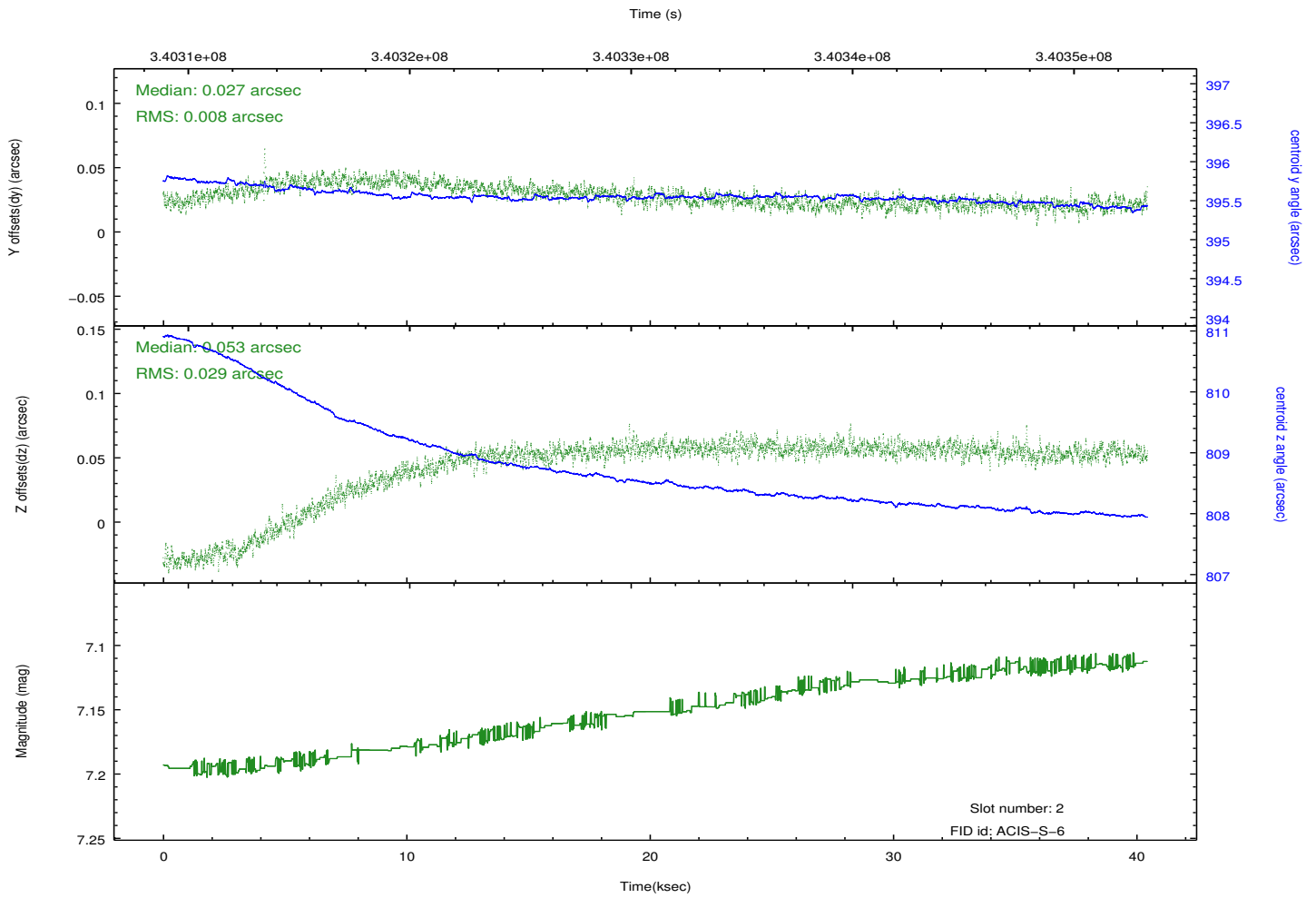
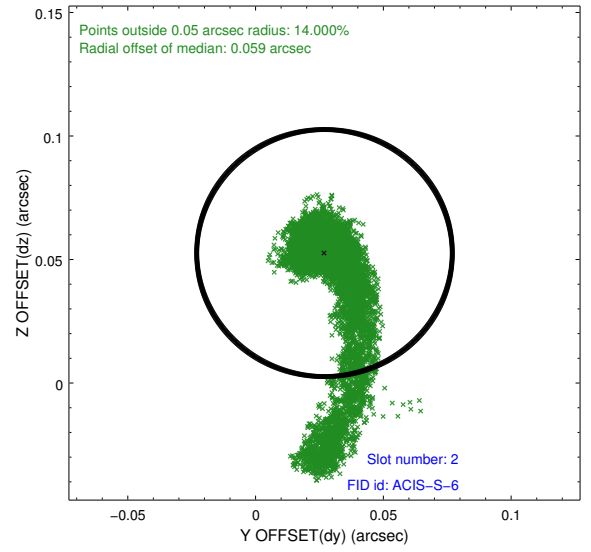
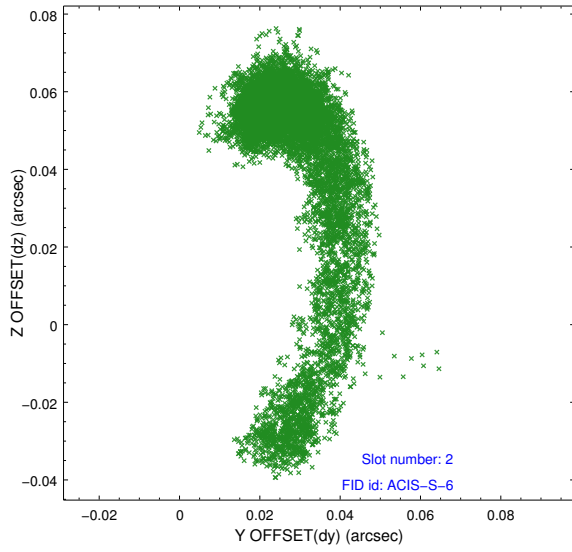
### 2.5.1 Slot 0



## 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)	2012.05.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.4383998

## A.2 Comments

Joint proposal with XMM.