

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 7232 - L2 Version 2  
Chandra X-Ray Center

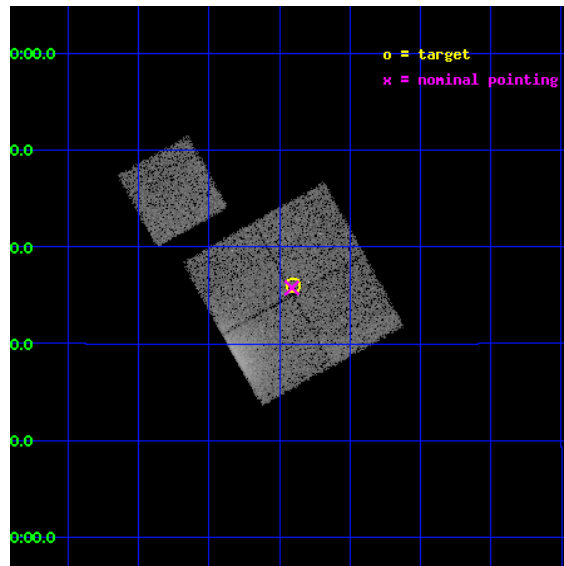
L2 Processing Date : Mar 18 2012

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# 1 Front

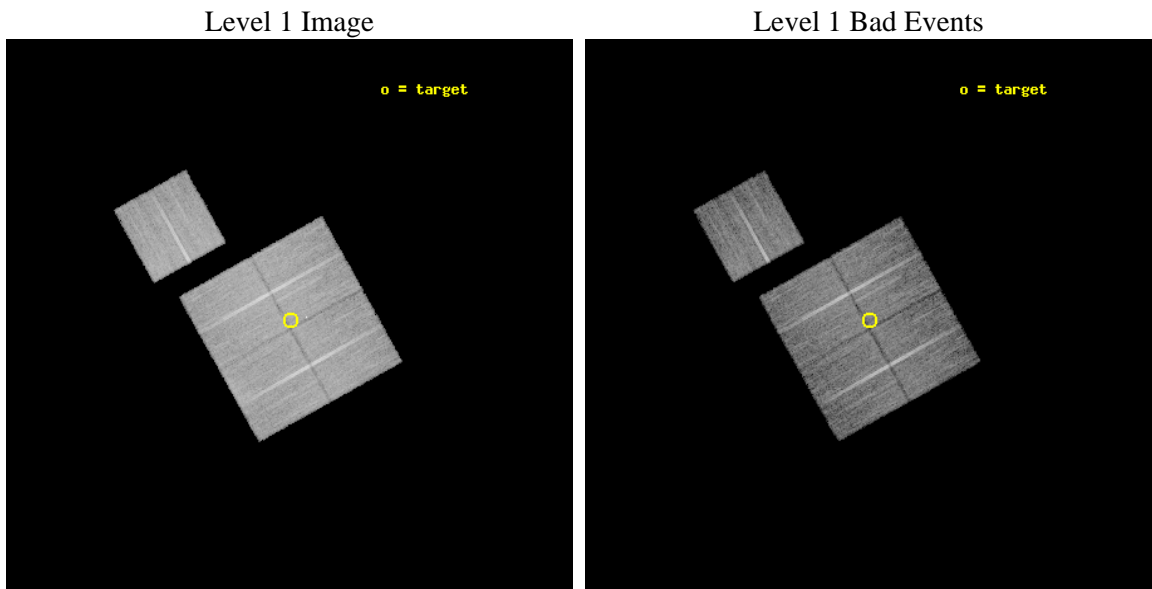
seq_num	800561	Sequence number
obs_id	7232	Observation id
title	Temperature profiles of relaxed galaxy clusters	Proposal title
observer	Dr Stephen Murray	Principal investigator
object	A478_OFFSET1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	63.225	Observer's specified target RA [deg]
dec_targ	10.6	Observer's specified target Dec [deg]
ra_nom	63.22788406516	Nominal RA [deg]
dec_nom	10.596336617112	Nominal Dec [deg]
roll_nom	330.80816371017	Nominal Roll [deg]
revision	2	Processing version of data
ontime	16129.258948863	Sum of GTIs [s]
livetime	15918.518306508	Livetime [s]
ontime0	16132.399968952	Sum of GTIs [s]
ontime1	16132.399968952	Sum of GTIs [s]
ontime2	16129.258968771	Sum of GTIs [s]
ontime3	16129.258948863	Sum of GTIs [s]
ontime6	16129.258988708	Sum of GTIs [s]
l2events	57155	Number of level 2 events



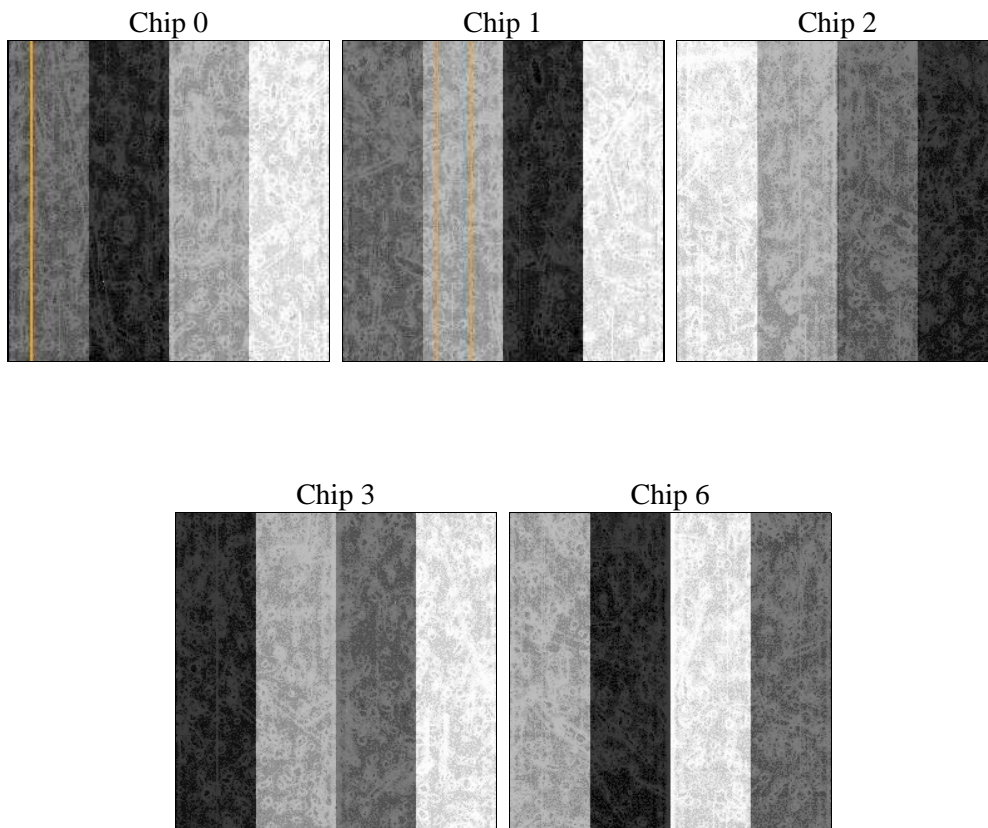
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	16000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	16129.258948863	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	16132.399968952	Sum of GTIs [s]
date	2012-03-18T09:16:01	Date and time of file creation	ontime1	16132.399968952	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	16129.258968771	Sum of GTIs [s]
			ontime3	16129.258948863	Sum of GTIs [s]
			ontime6	16129.258988708	Sum of GTIs [s]
			l1events	570075	Number of level 1 events

### 2.1.4 Events

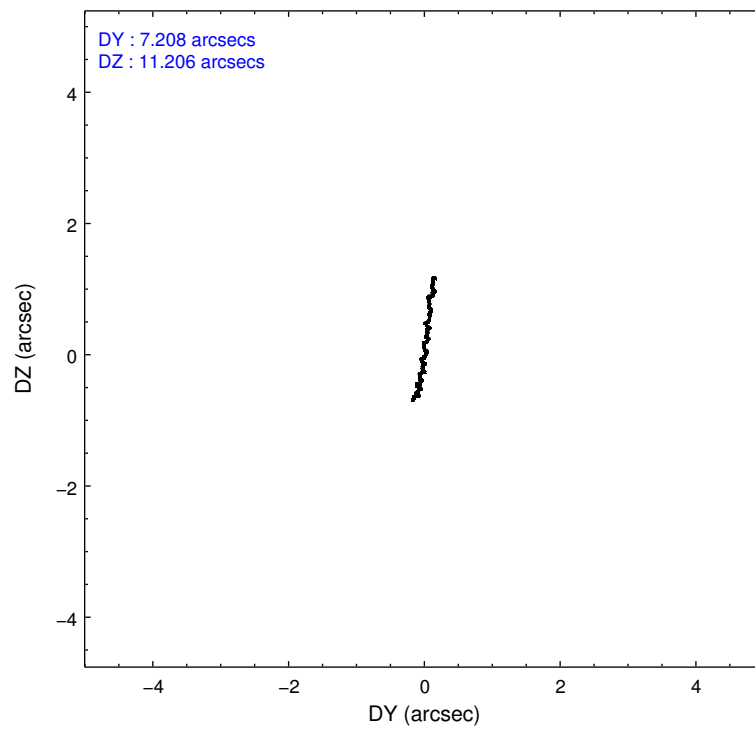
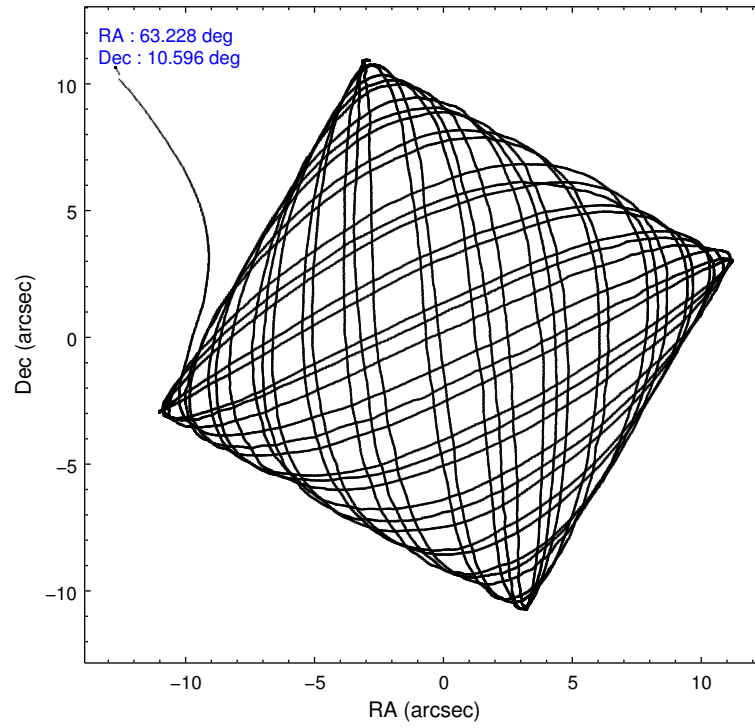
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	114707	104314	123563	114340	113151
rejected events	94152	92385	110610	103548	102217
rejected %	82%	88%	89%	90%	90%

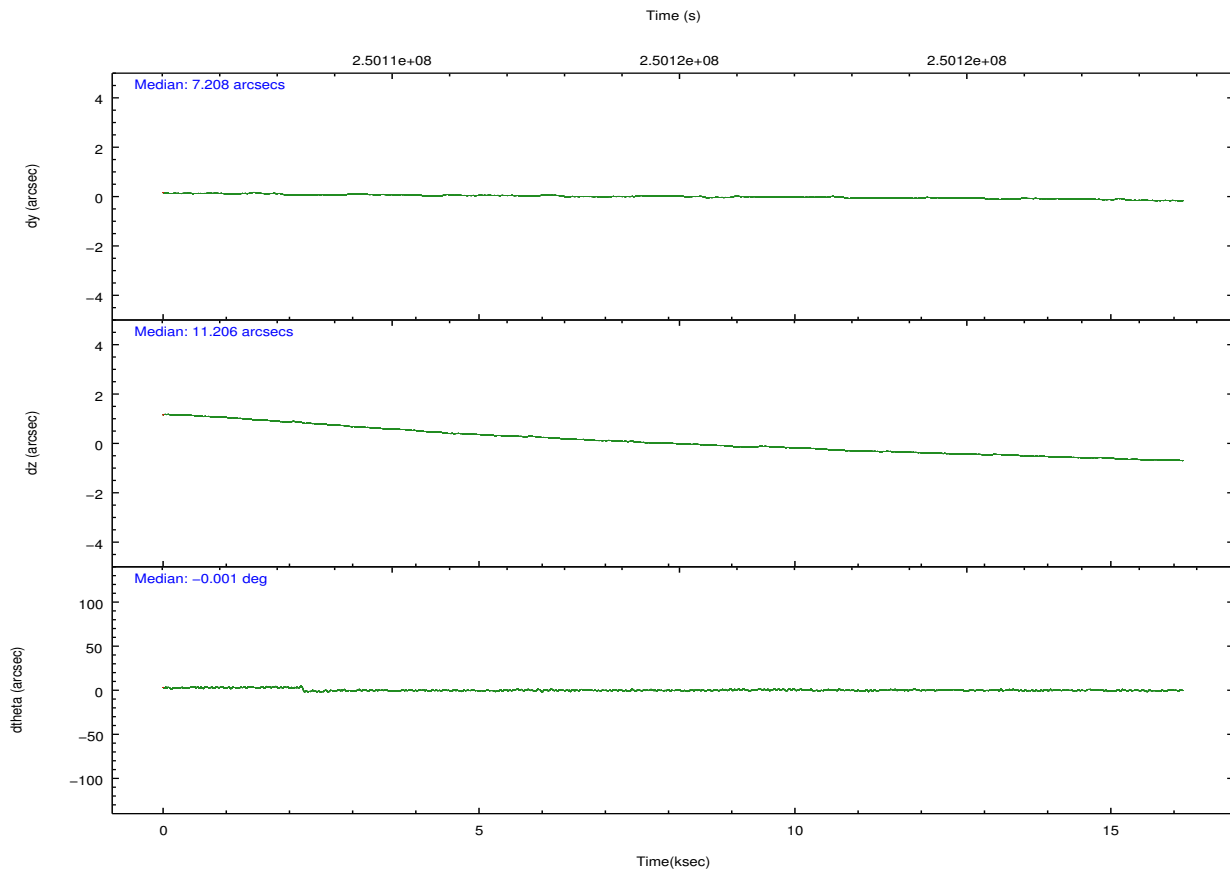
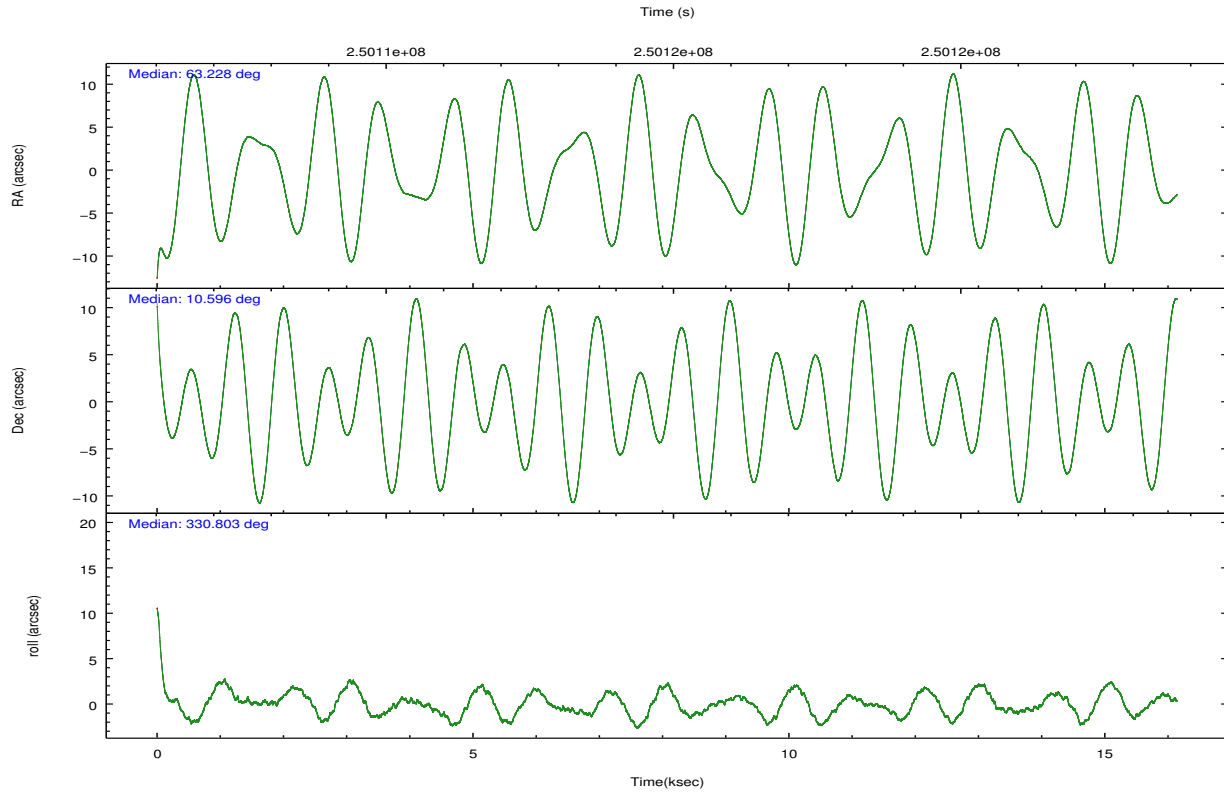
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	11750	4496	5904	4341	3929
	10%	4%	4%	3%	3%
grade 1 events	90	56	65	64	47
	0%	0%	0%	0%	0%
grade 2 events	3803	2718	2875	2354	2563
	3%	2%	2%	2%	2%
grade 3 events	1658	1441	1293	1264	1264
	1%	1%	1%	1%	1%
grade 4 events	1553	1416	1305	1257	1280
	1%	1%	1%	1%	1%
grade 5 events	3802	4287	3701	4622	4465
	3%	4%	2%	4%	3%
grade 6 events	2405	2423	2112	2085	2476
	2%	2%	1%	1%	2%
grade 7 events	89646	87477	106308	98353	97127
	78%	83%	86%	86%	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	63.200047	63.22788406515991	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.595840	10.59633661711213	Alternating exposures requested	N	N
[deg] Pointing Roll	330.604581	330.8081637101733	[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)	250106957.184000	250105593.05696			
Observation start date	2005-12-04T18:08:13	2005-12-04T17:46:33			
[s] Observation end time (MET)	250122957.184000	250123812.43281			
Observation end date	2005-12-04T22:34:53	2005-12-04T22:50:12			
Read mode	TIMED	TIMED			

## 2.3 Aspect



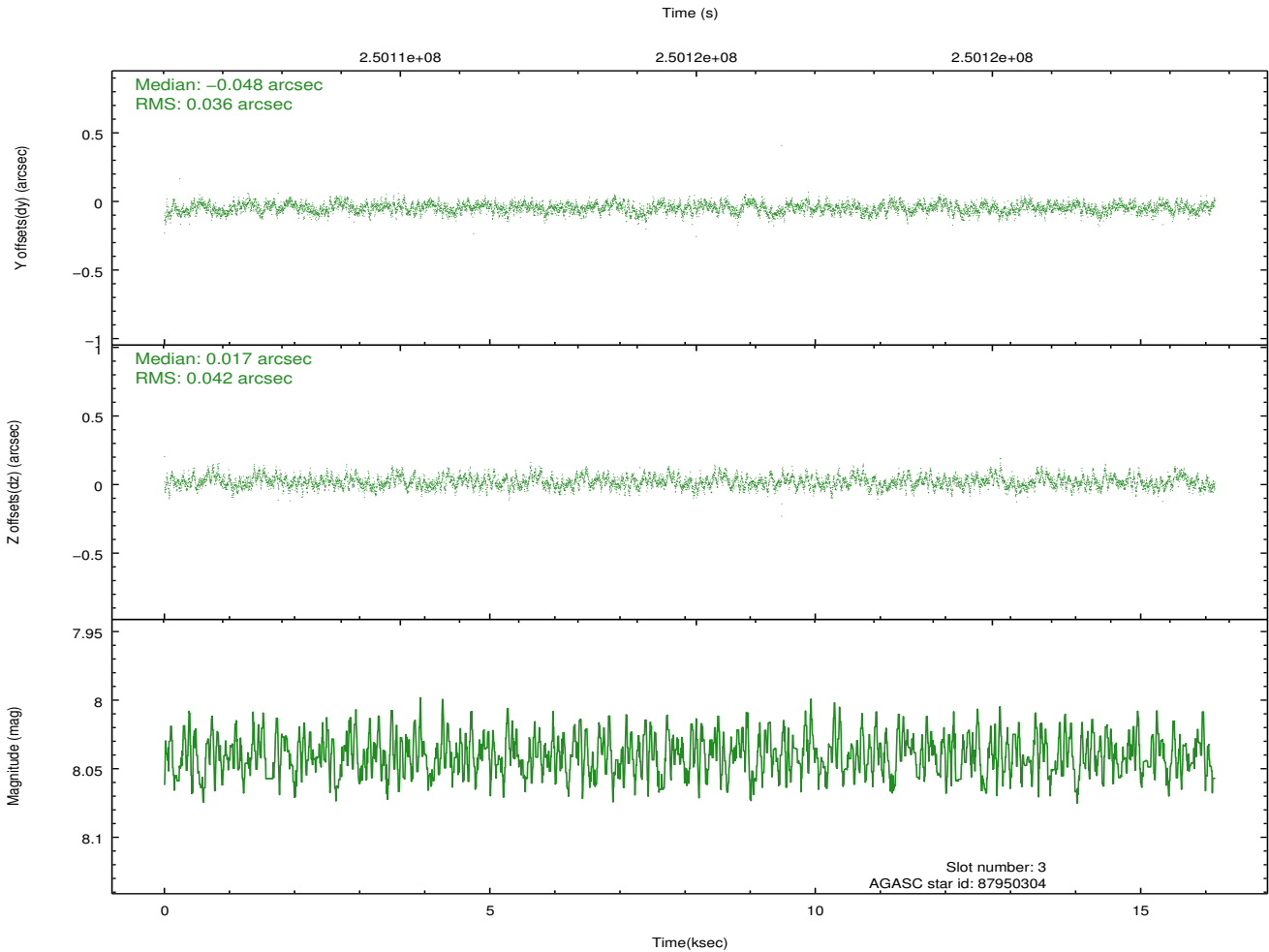
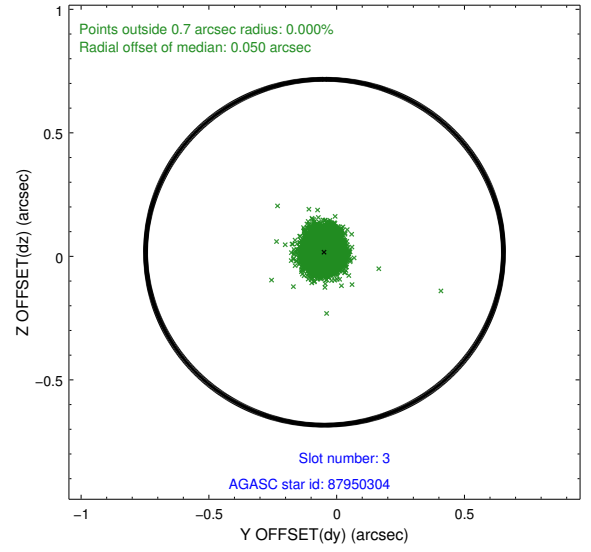
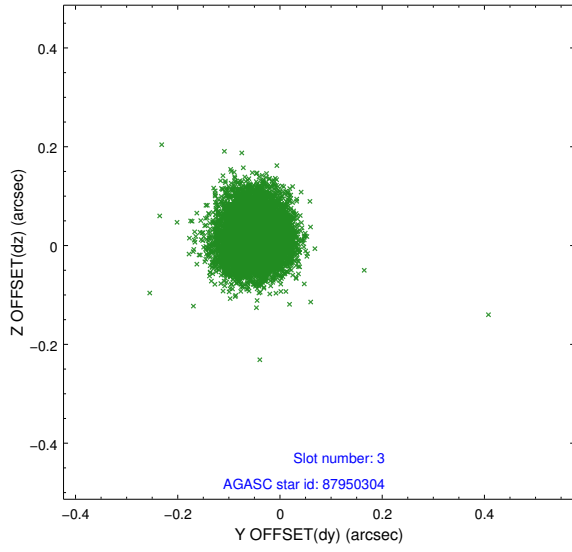


### Slot Statistics

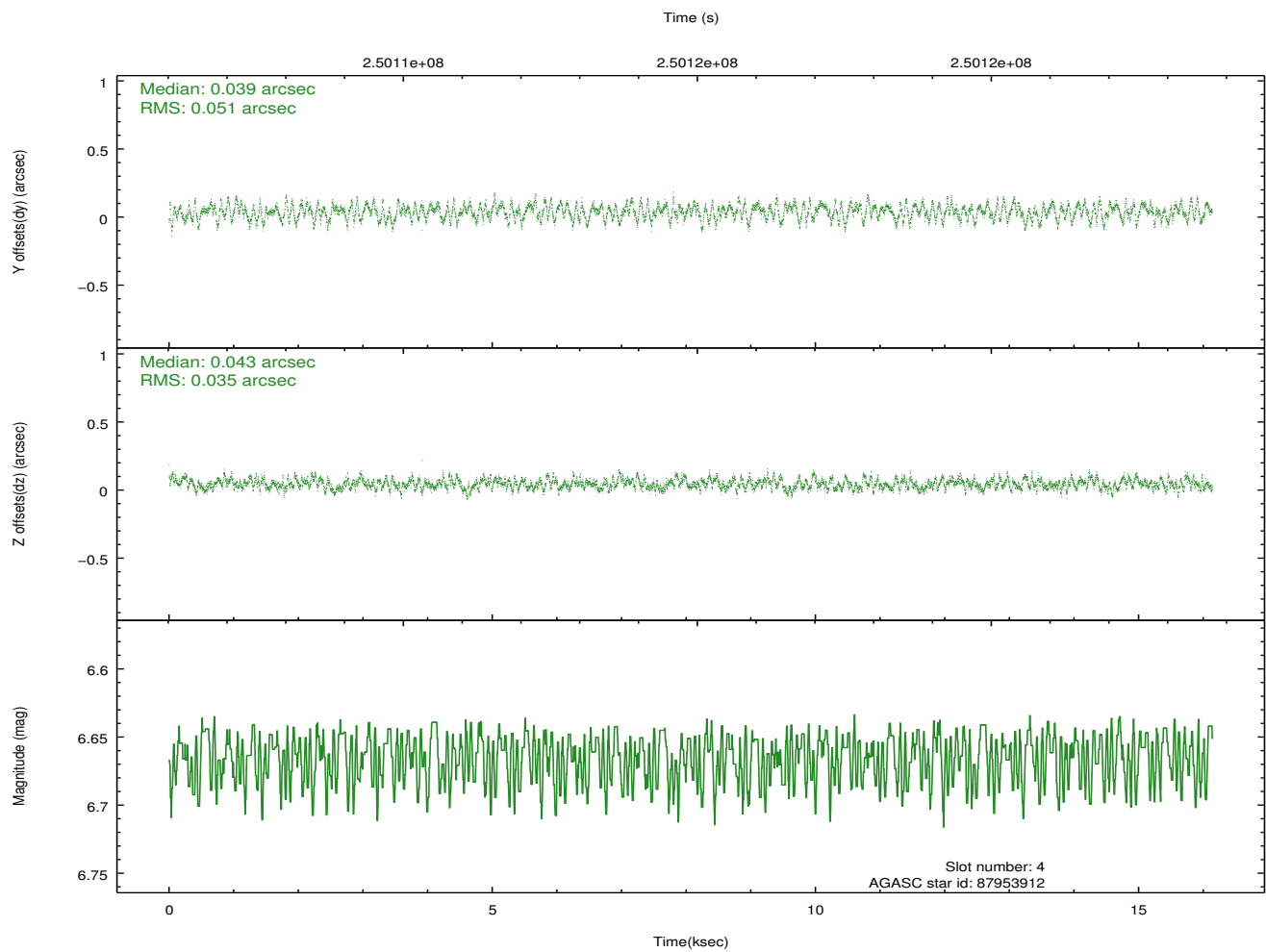
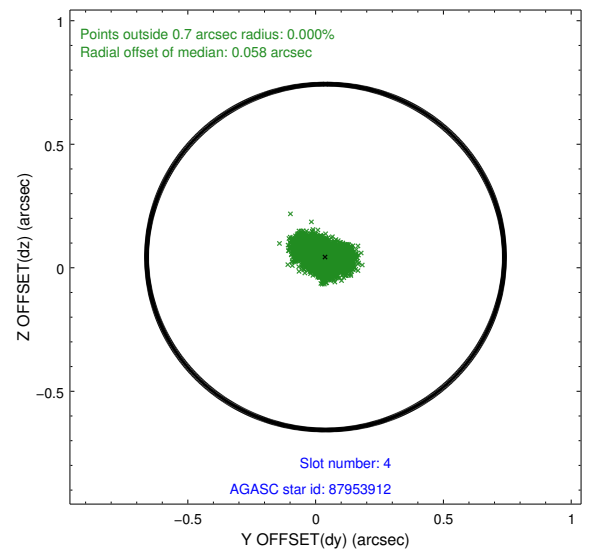
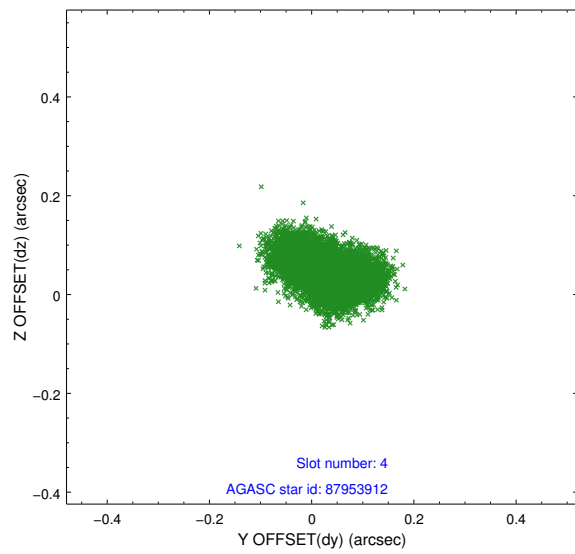
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	3937	-0.016	-0.042	0.028	0.040	0.000000	0.000000	932.44	-834.85
1	FID	ACIS-I-4	7.18	3937	0.105	0.060	0.021	0.030	0.000000	0.000000	2152.78	1064.90
2	FID	ACIS-I-5	7.22	3937	-0.188	0.052	0.013	0.022	0.000000	0.000000	-1815.36	1063.11
3	GUIDE	87950304	8.04	7873	-0.048	0.017	0.059	0.094	63.753878	10.748130	1436.75	1440.89
4	GUIDE	87953912	6.66	7874	0.039	0.043	0.066	0.108	63.394036	10.212467	1276.83	-864.45
5	GUIDE	87954552	8.33	7871	0.027	-0.177	0.071	0.116	63.195345	11.171305	-1031.08	1796.64
6	GUIDE	88343064	8.77	7871	-0.009	-0.107	0.065	0.102	63.058020	11.314635	-1707.14	2008.69
7	GUIDE	87818344	8.36	7863	-0.010	0.220	0.053	0.088	62.599114	10.854229	-2308.70	-230.14

## 2.4 Star Slots

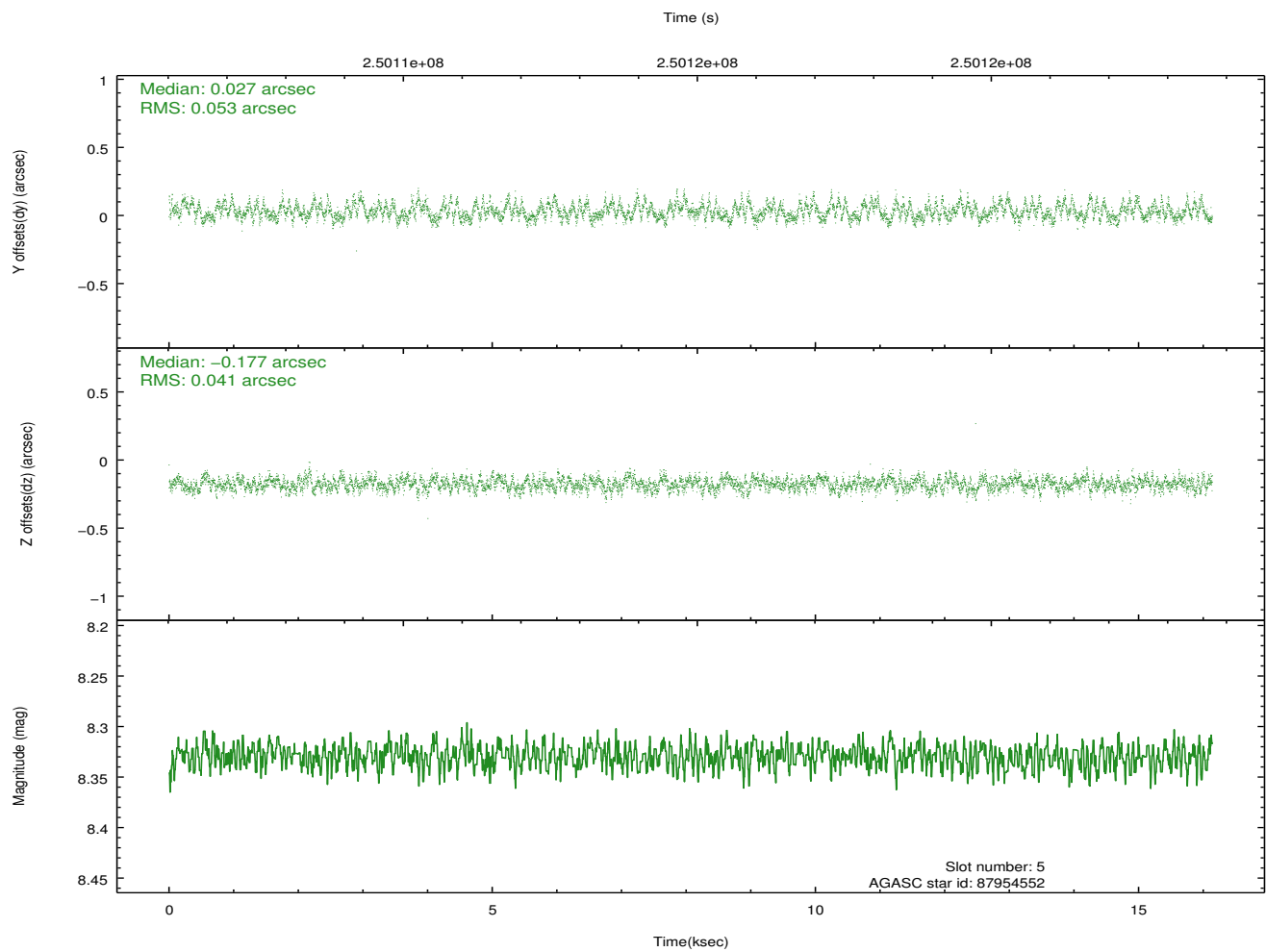
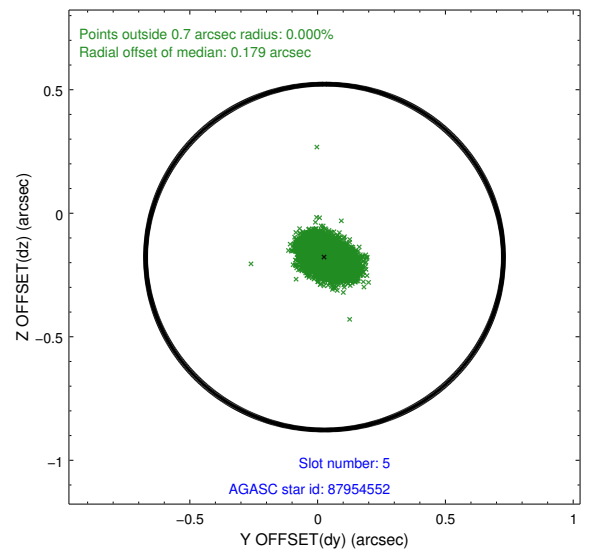
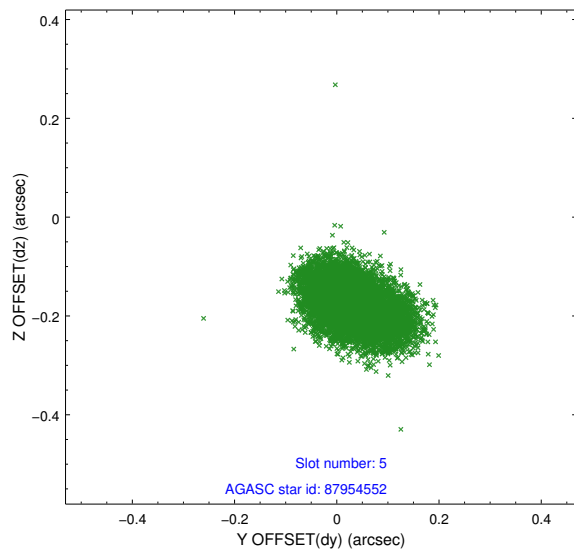
### 2.4.1 Slot 3



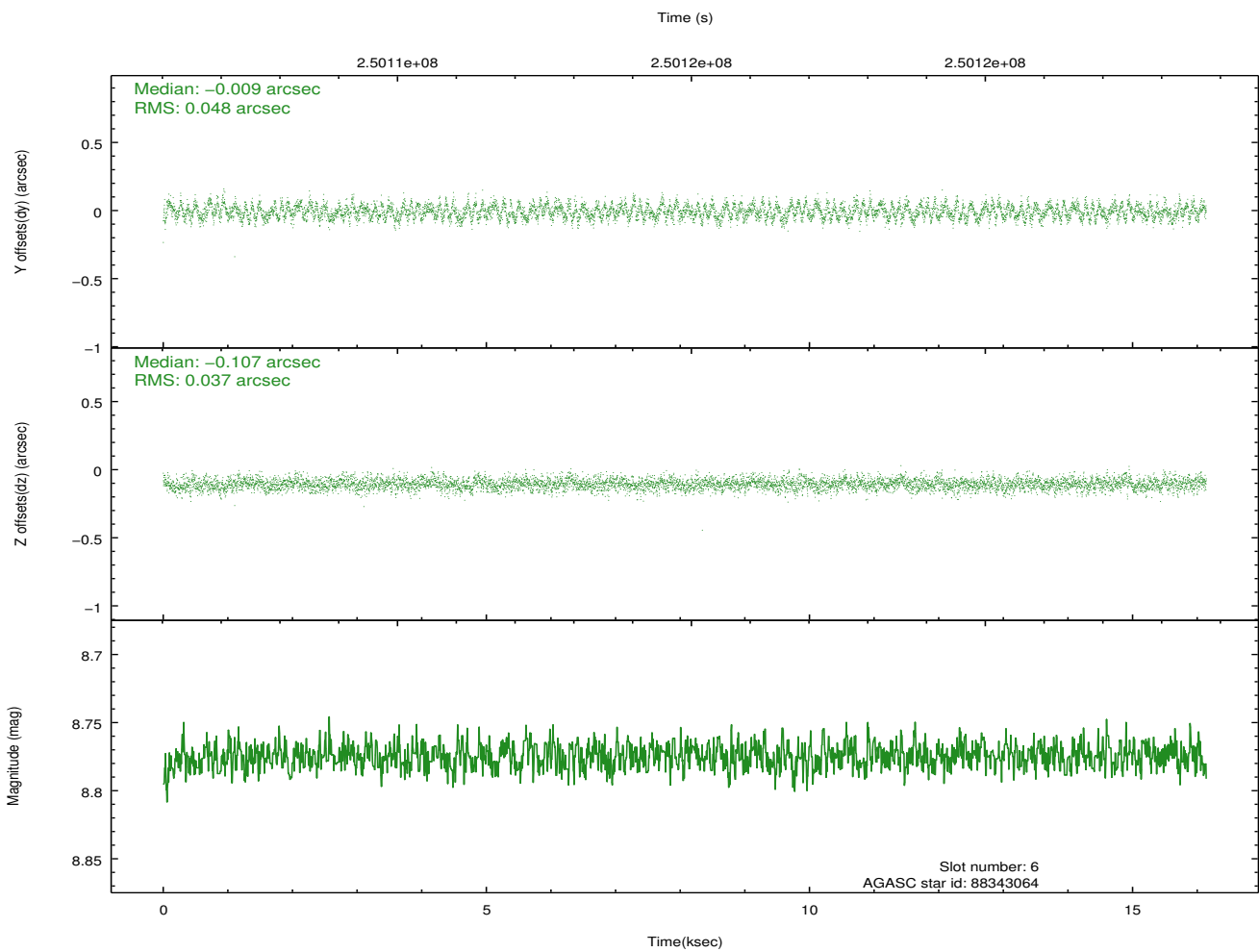
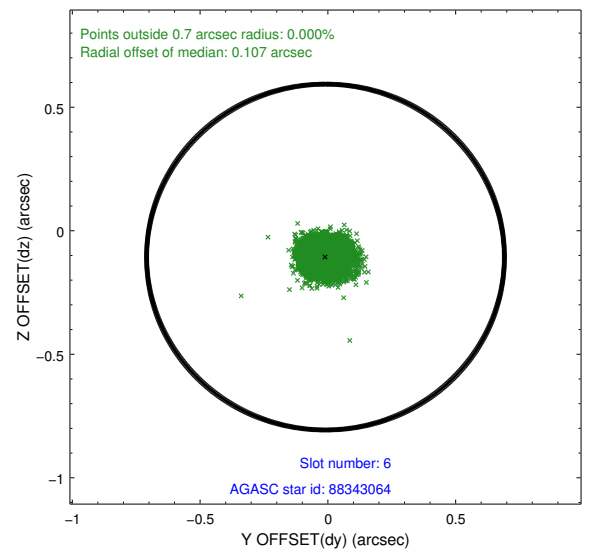
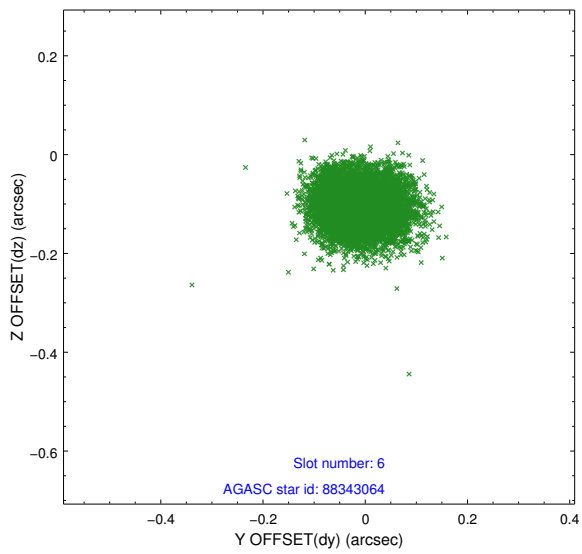
## 2.4.2 Slot 4



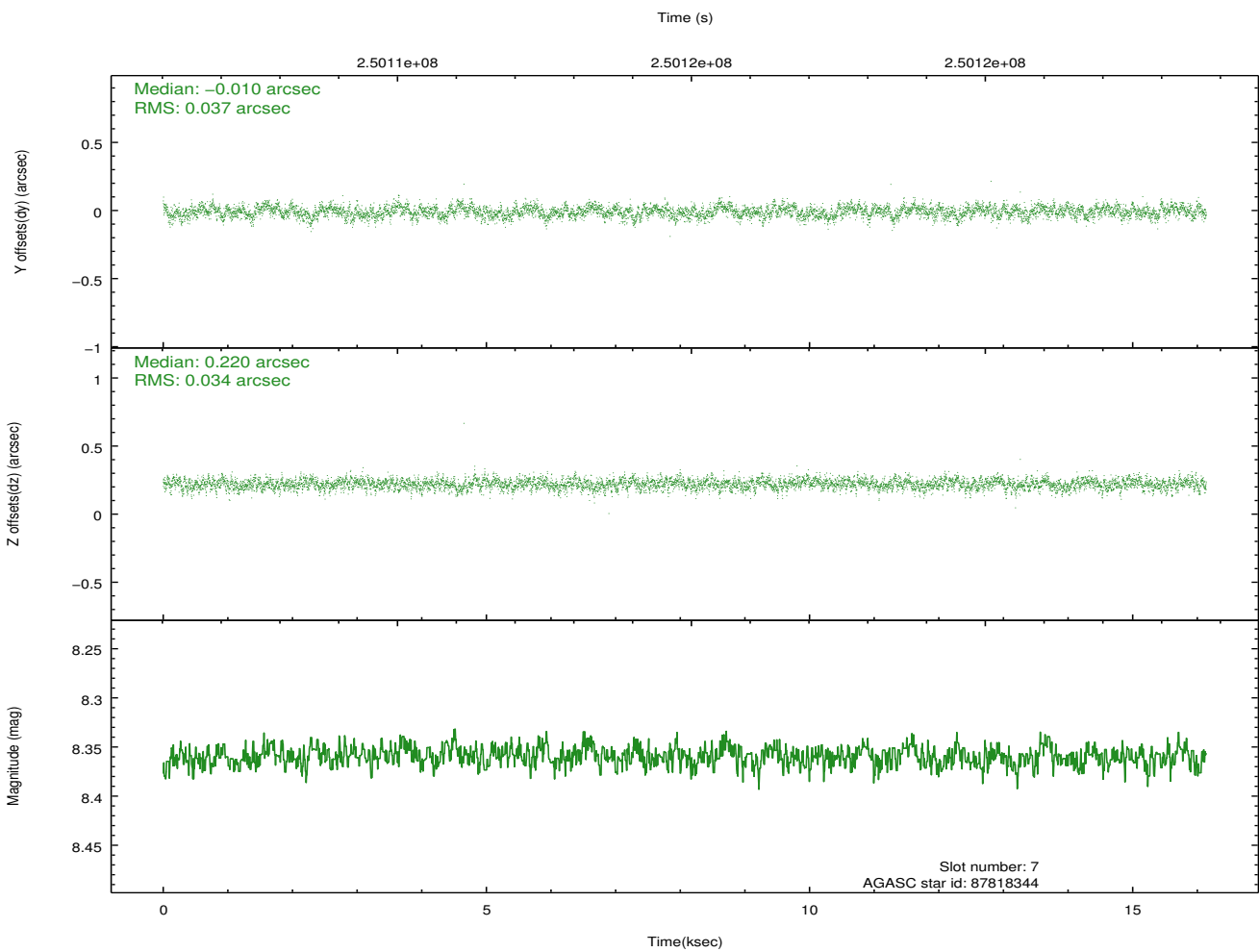
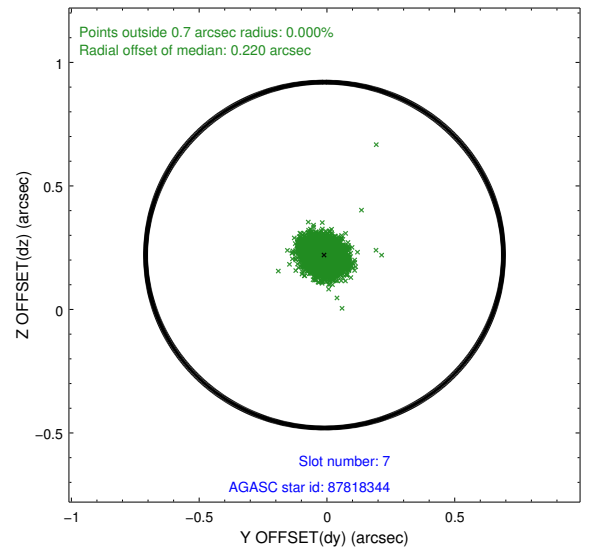
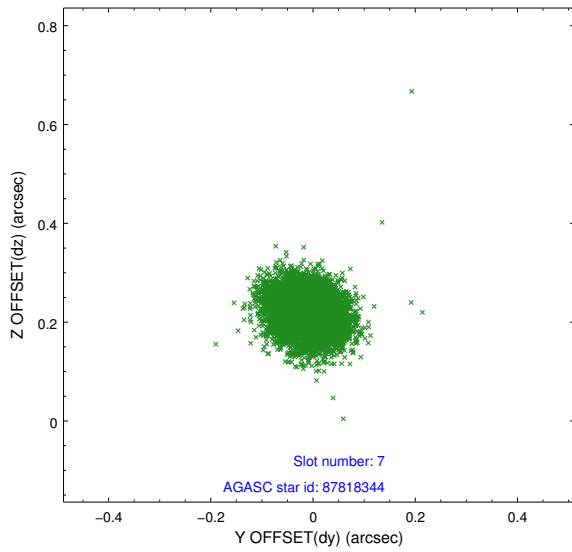
### 2.4.3 Slot 5



## 2.4.4 Slot 6

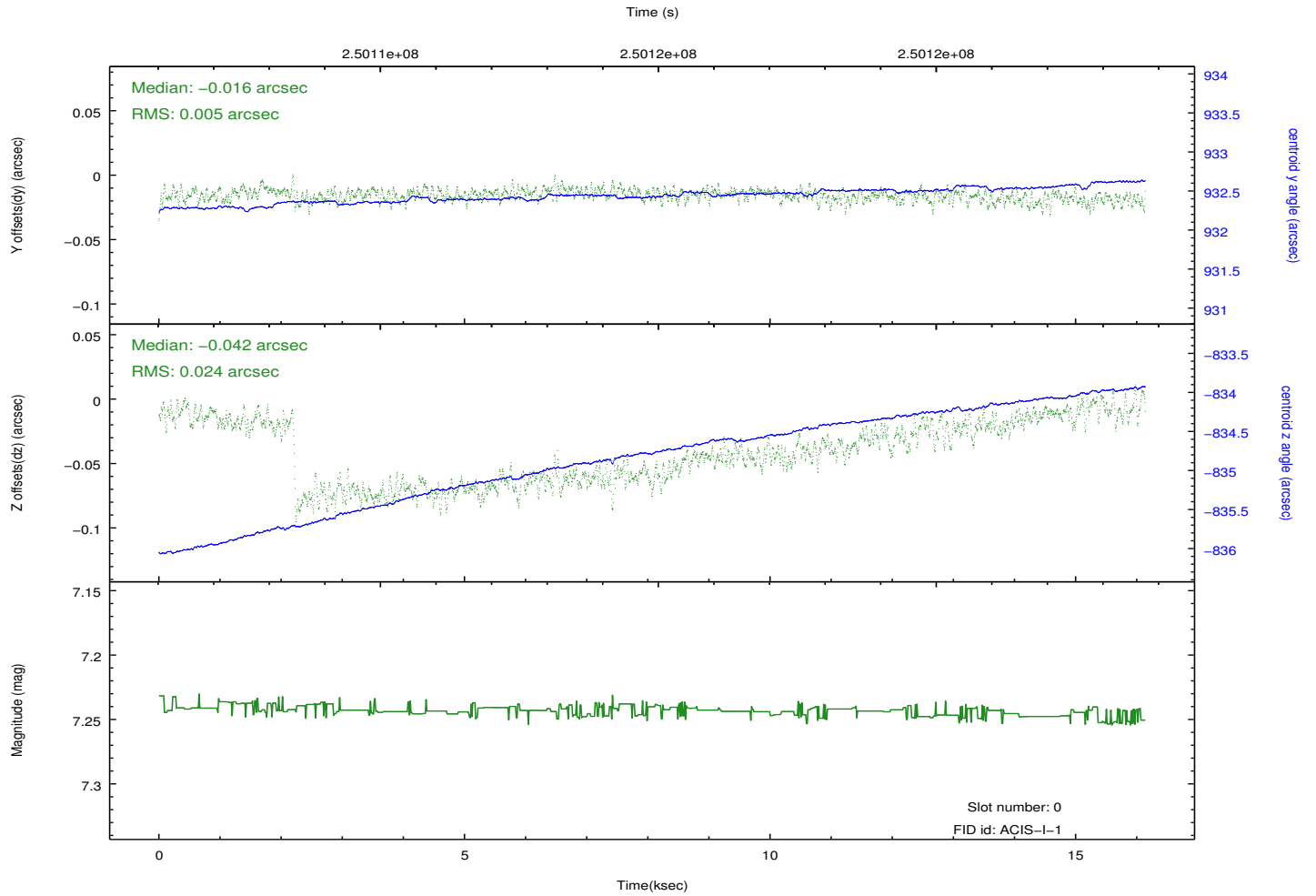
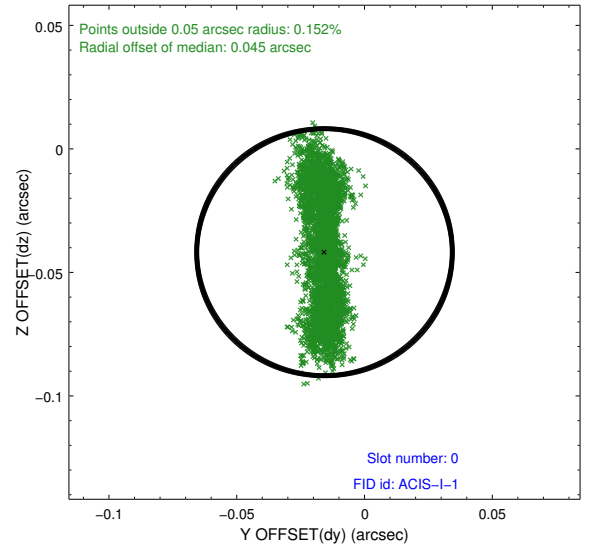
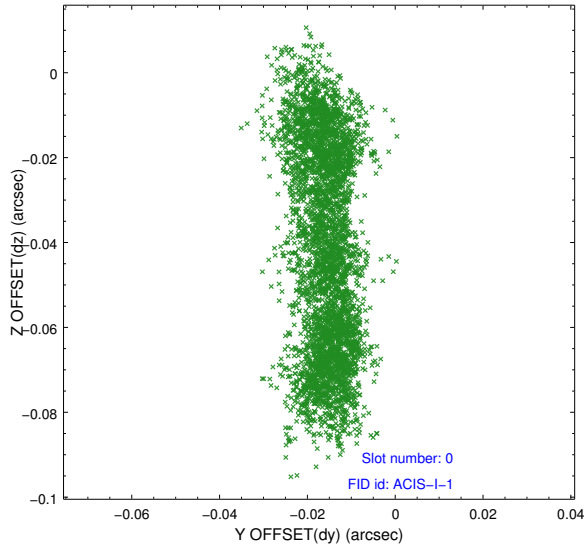


## 2.4.5 Slot 7

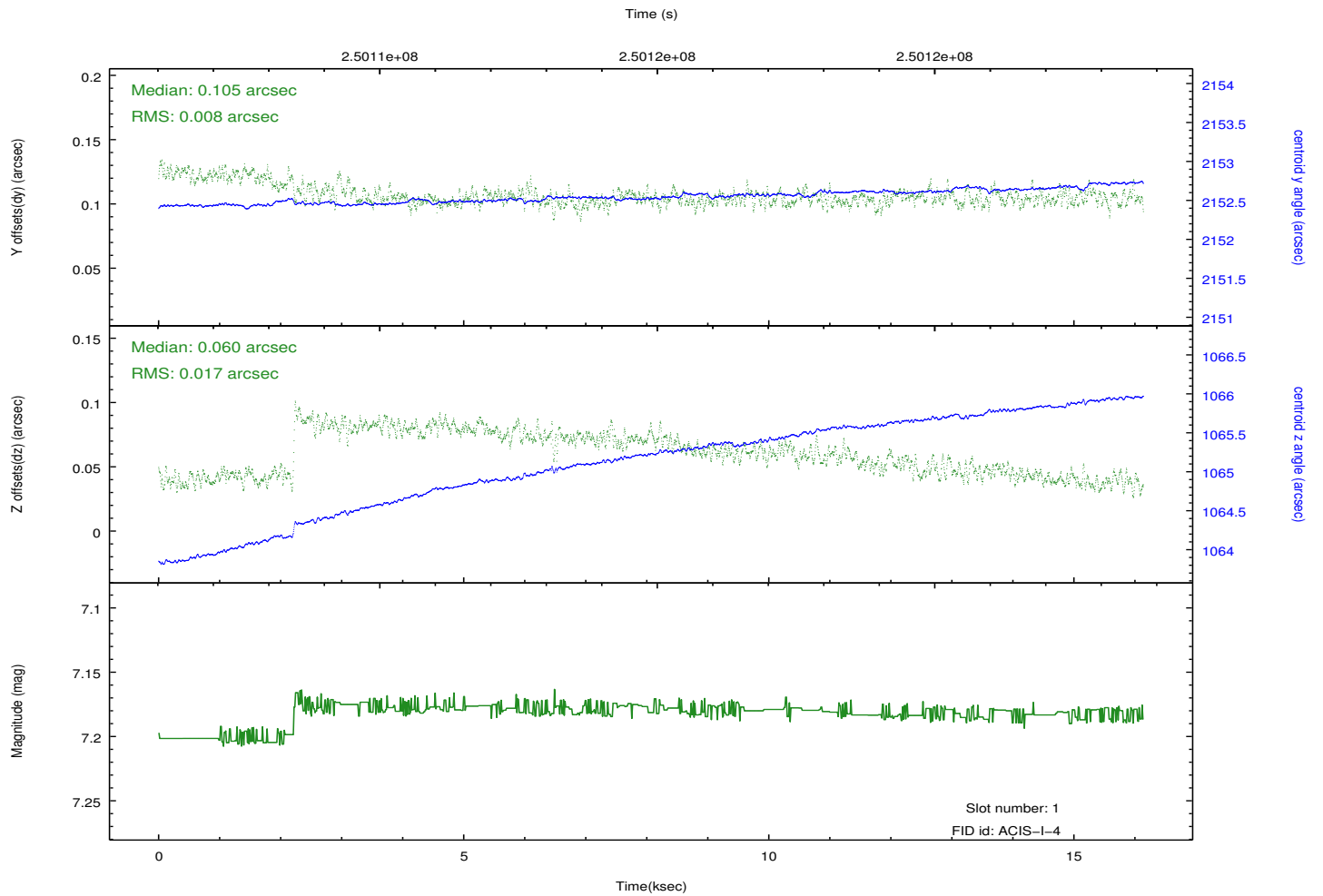
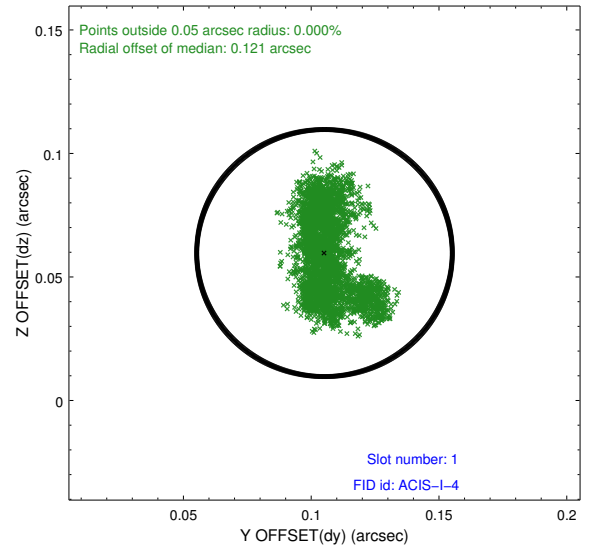
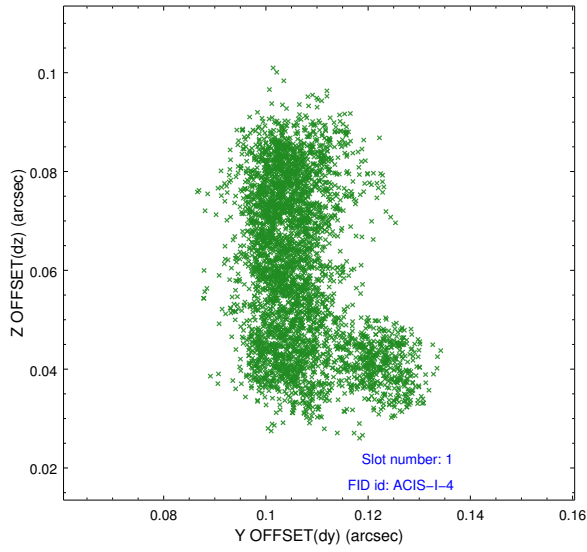


## 2.5 FID Slots

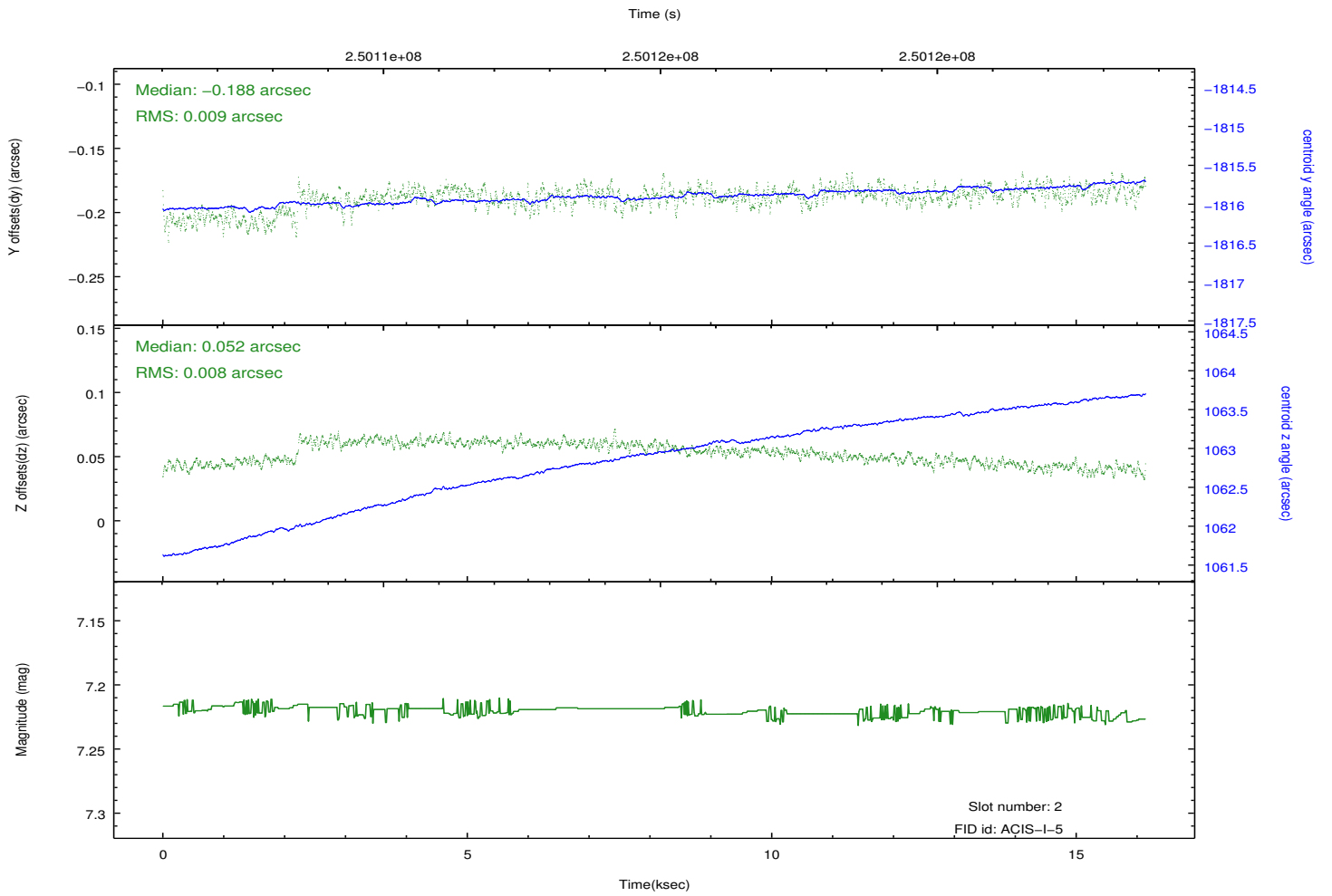
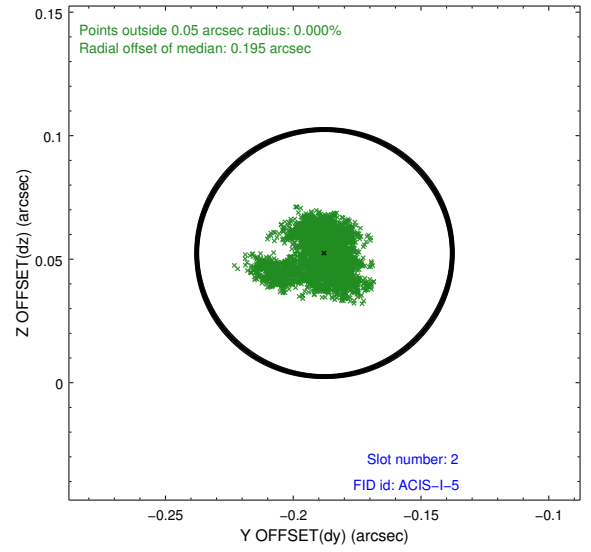
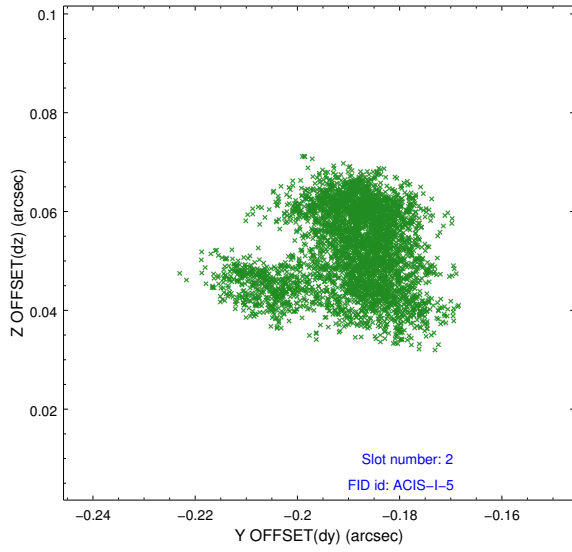
### 2.5.1 Slot 0



## 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)	2012.03.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.12925

## A.2 Comments