

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 6945 - L2 Version 2  
Chandra X-Ray Center

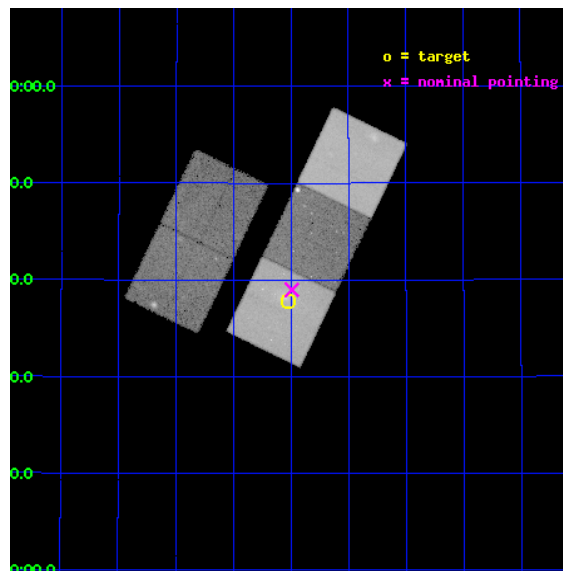
L2 Processing Date : Mar 25 2012

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# 1 Front

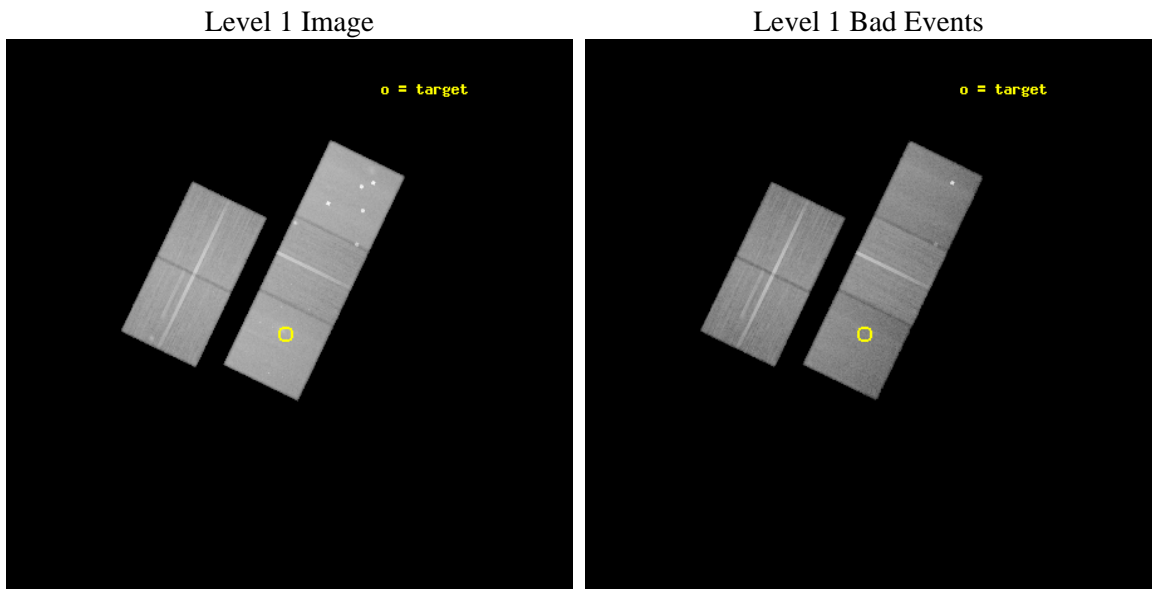
seq_num	800578	Sequence number
obs_id	6945	Observation id
title	The Cosmological Formation of Galaxy Groups	Proposal title
observer	Dr. DAVID BUOTE	Principal investigator
object	RXC J1130.0+3637	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	172.5075	Observer's specified target RA [deg]
dec_targ	36.630278	Observer's specified target Dec [deg]
ra_nom	172.4982399178	Nominal RA [deg]
dec_nom	36.649663567638	Nominal Dec [deg]
roll_nom	115.72921321456	Nominal Roll [deg]
revision	2	Processing version of data
ontime	50038.8210361	Sum of GTIs [s]
livetime	49385.02700122	Livetime [s]
ontime2	50029.233905315	Sum of GTIs [s]
ontime3	50032.41594556	Sum of GTIs [s]
ontime5	50038.779996097	Sum of GTIs [s]
ontime6	50029.315995365	Sum of GTIs [s]
ontime7	50038.8210361	Sum of GTIs [s]
l2events	506198	Number of level 2 events



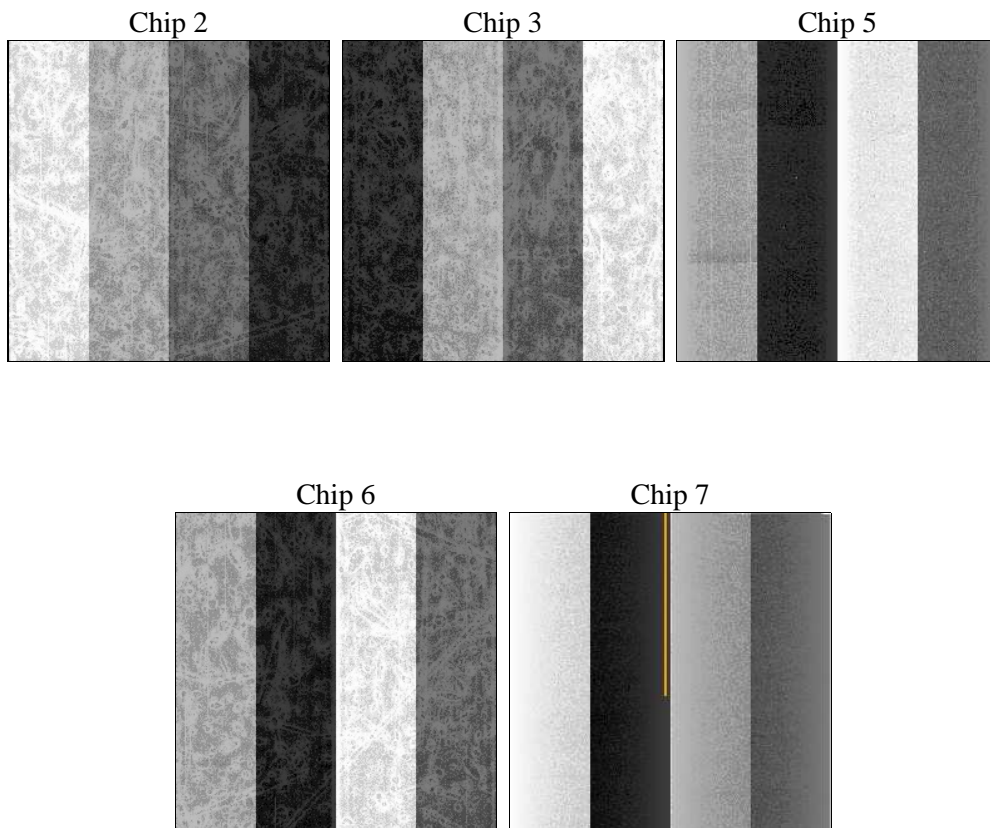
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	50000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	50038.8210361	Sum of GTIs [s]
caldbver	4.4.8	&#160	ontime2	50029.233905315	Sum of GTIs [s]
date	2012-03-25T01:46:59	Date and time of file creation	ontime3	50032.41594556	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	50038.779996097	Sum of GTIs [s]
			ontime6	50029.315995365	Sum of GTIs [s]
			ontime7	50038.8210361	Sum of GTIs [s]
			l1events	2014836	Number of level 1 events

### 2.1.4 Events

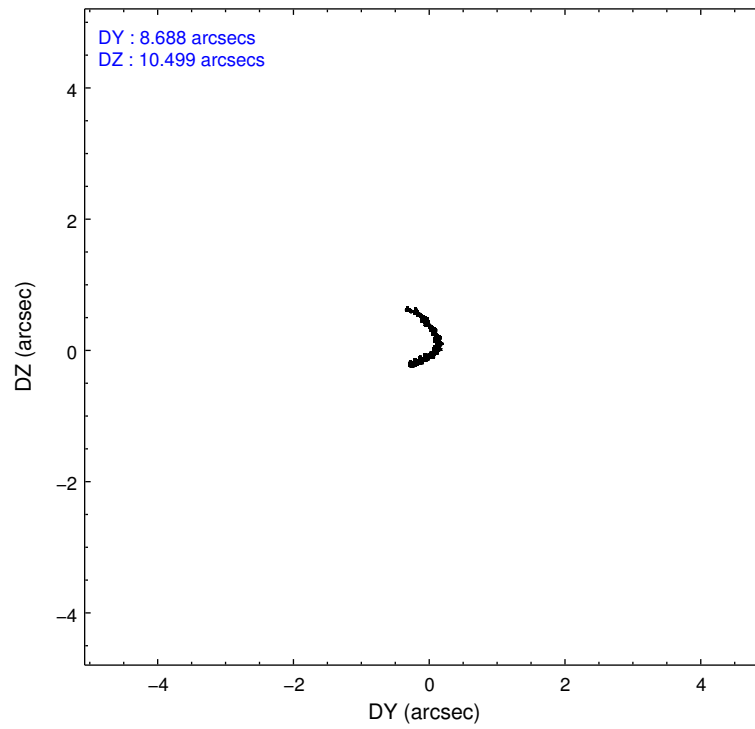
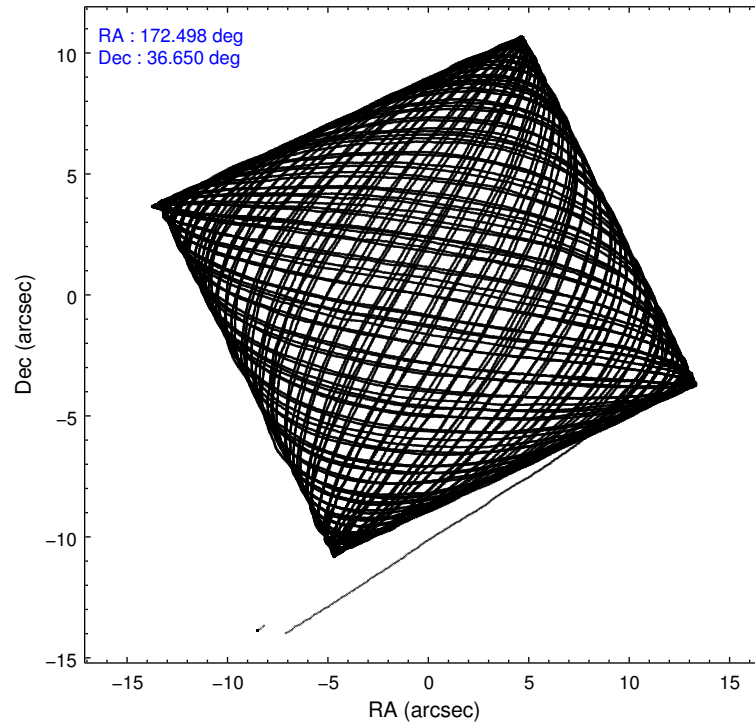
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	366758	349825	519184	368662	410407
rejected events	333291	316067	251387	327429	216843
rejected %	90%	90%	48%	88%	52%

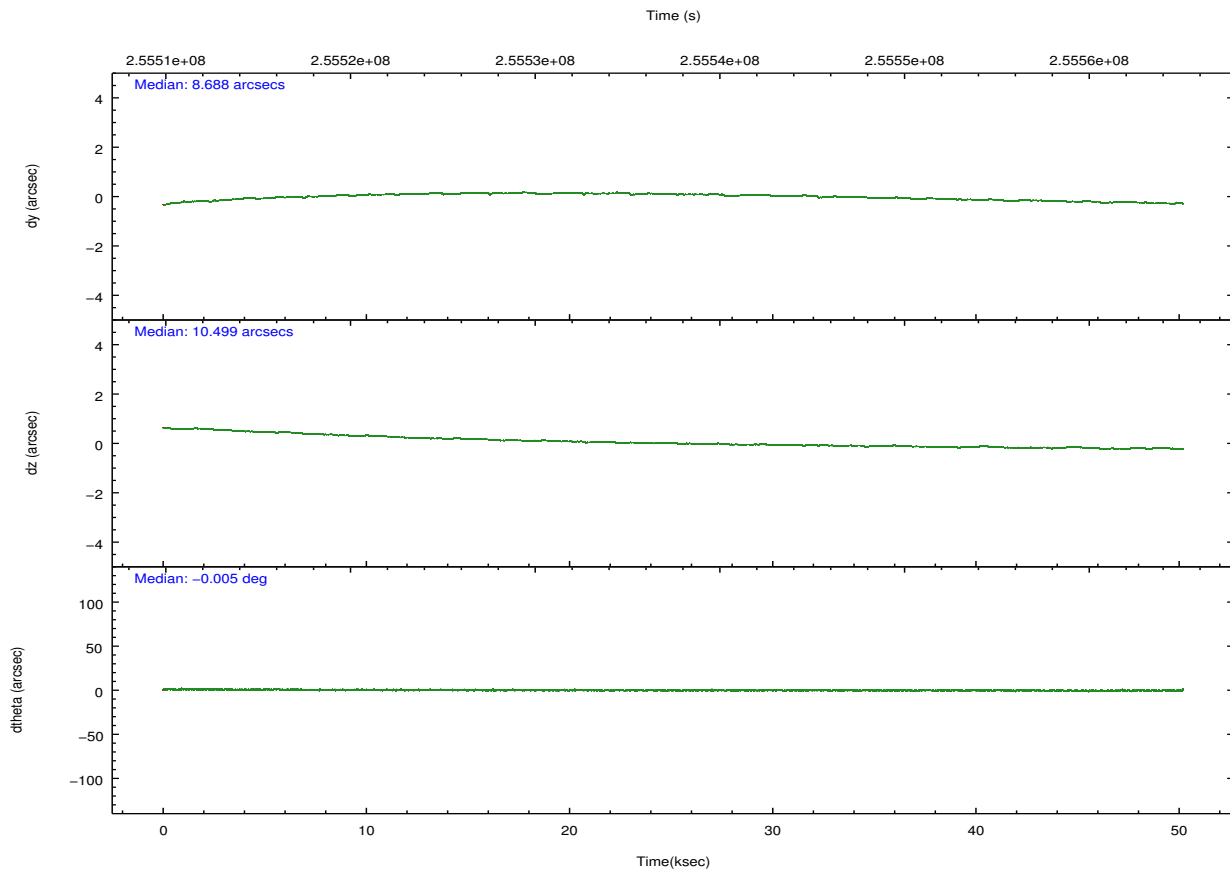
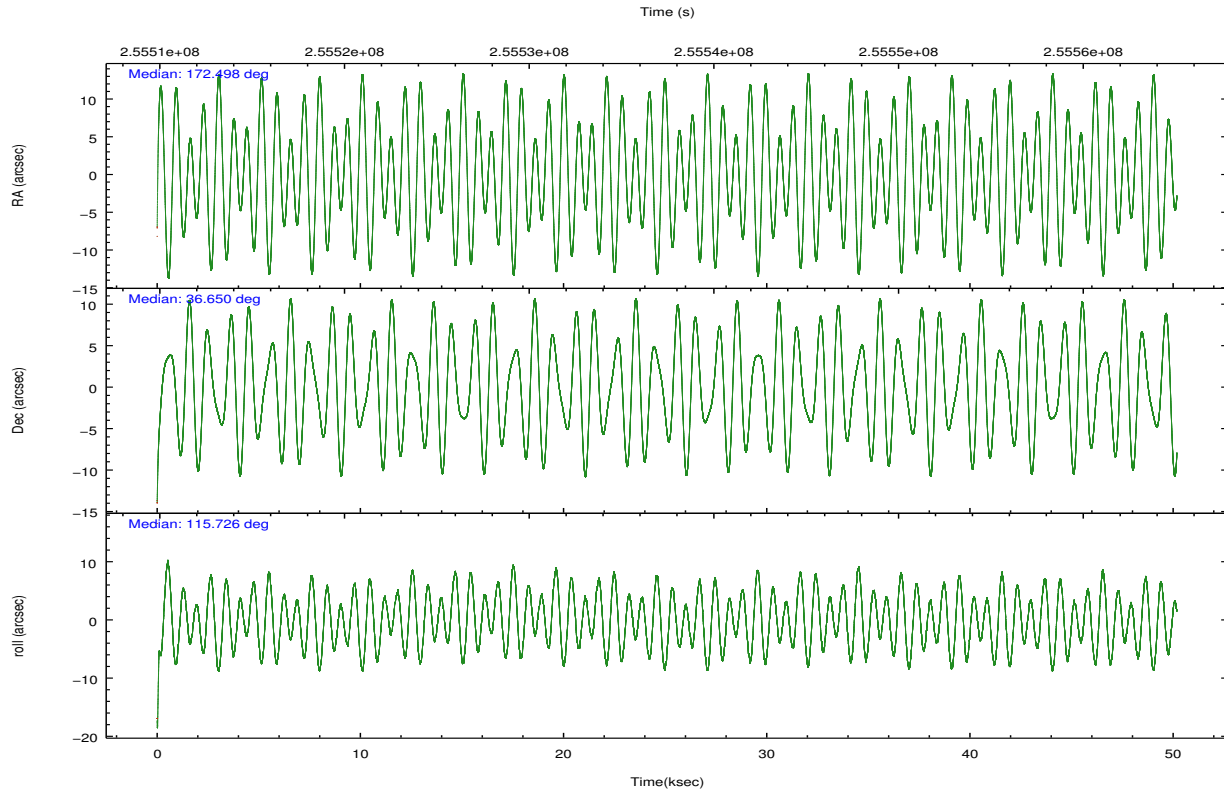
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	12017	12271	47722	16402	20850
	3%	3%	9%	4%	5%
grade 1 events	196	186	784	180	354
	0%	0%	0%	0%	0%
grade 2 events	7865	7170	73595	8396	39848
	2%	2%	14%	2%	9%
grade 3 events	3673	3883	10670	4261	18439
	1%	1%	2%	1%	4%
grade 4 events	3770	3842	10271	4225	18321
	1%	1%	1%	1%	4%
grade 5 events	11218	13873	39099	14499	41934
	3%	3%	7%	3%	10%
grade 6 events	6145	6593	125555	7950	96120
	1%	1%	24%	2%	23%
grade 7 events	321874	302007	211488	312749	174541
	87%	86%	40%	84%	42%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	172.526542	172.4982399177956	Subarray requested	NONE	NONE
[deg] Pointing Dec	36.634634	36.64966356763783	Alternating exposures requested	N	N
[deg] Pointing Roll	115.555700	115.7292132145554	[s] Primary exposure time	0.000000	3.1
[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)	255512555.184000	255511619.60737			
Observation start date	2006-02-05T07:41:30	2006-02-05T07:26:59			
[s] Observation end time (MET)	255562555.184000	255563236.04727			
Observation end date	2006-02-05T21:34:50	2006-02-05T21:47:16			
Read mode	TIMED	TIMED			

## 2.3 Aspect





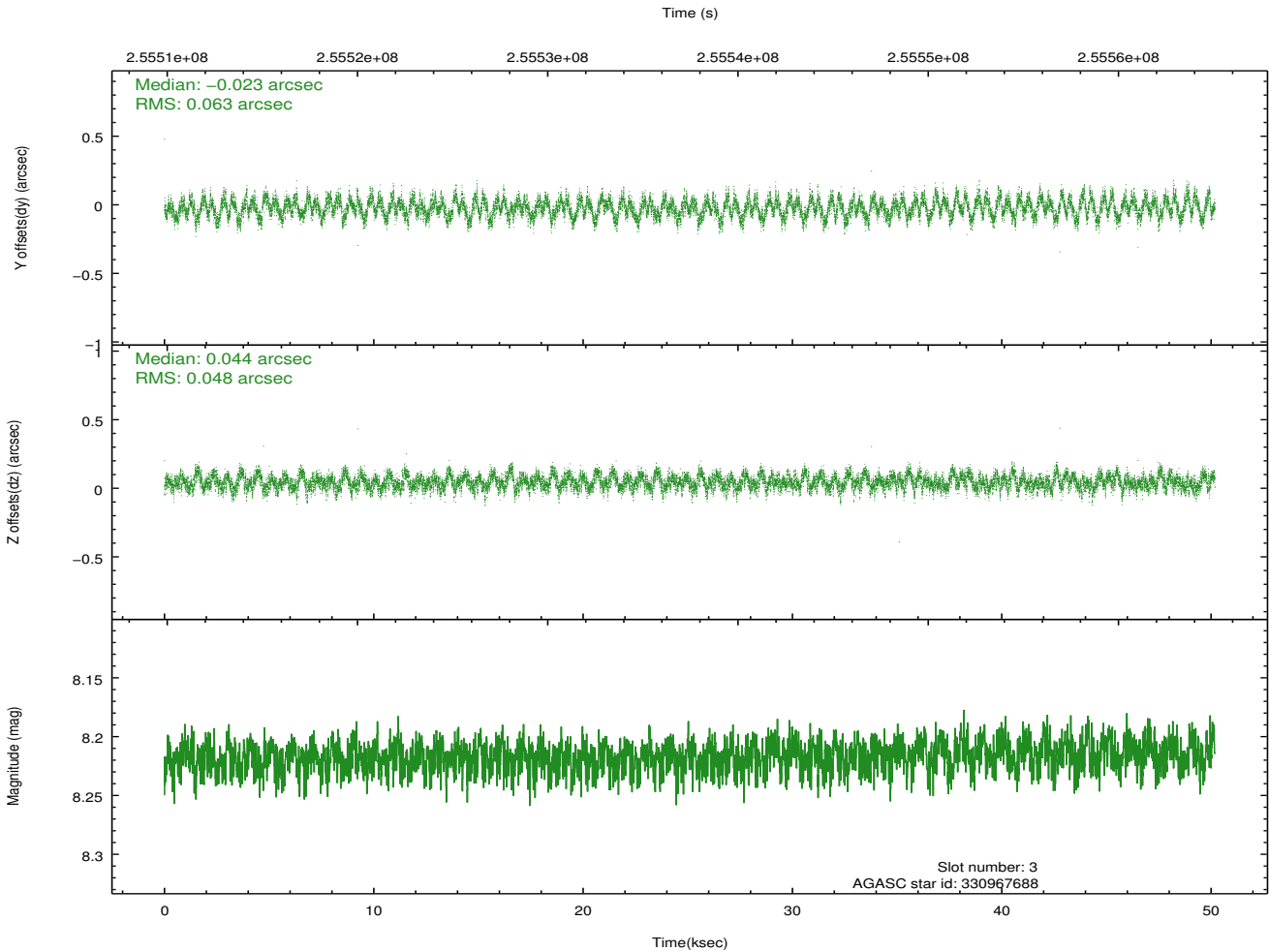
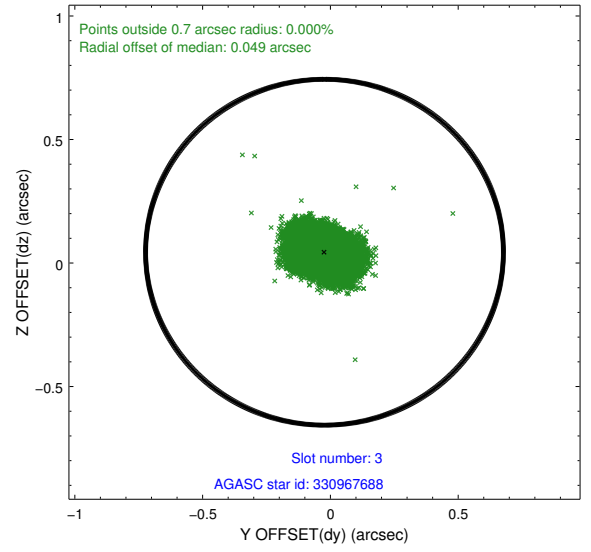
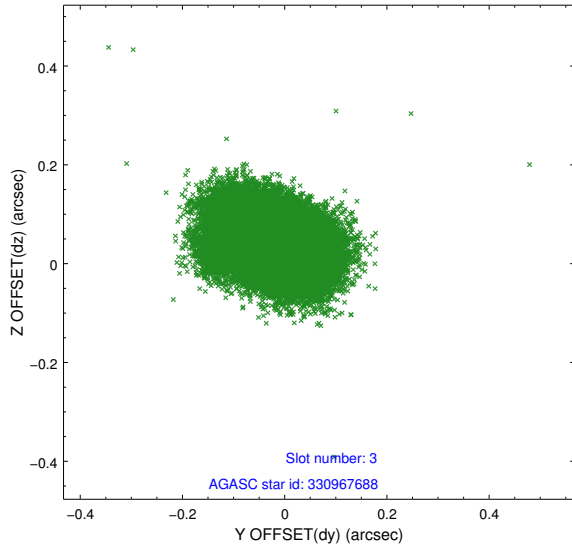
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	12240	-0.043	-0.020	0.007	0.013	0.000000	0.000000	-761.46	-1731.82
1	FID	ACIS-S-4	7.21	12241	0.142	0.026	0.008	0.015	0.000000	0.000000	2151.96	176.80
2	FID	ACIS-S-5	7.23	12241	-0.130	0.003	0.008	0.014	0.000000	0.000000	-1814.46	170.33
3	GUIDE	330967688	8.22	24475	-0.023	0.044	0.085	0.134	172.798818	36.231614	-1648.85	-87.43
4	GUIDE	330969176	9.13	24462	0.055	-0.208	0.081	0.130	172.445845	35.972776	-2047.88	1240.24
5	GUIDE	330970896	8.79	24401	0.259	0.247	0.096	0.146	172.318606	36.911843	1159.62	109.95
6	GUIDE	330958536	8.33	24474	-0.135	0.001	0.069	0.111	173.372154	36.765438	-617.23	-2407.56
7	GUIDE	330969896	9.64	24455	-0.155	-0.081	0.108	0.175	172.184559	37.249552	2421.60	-71.11

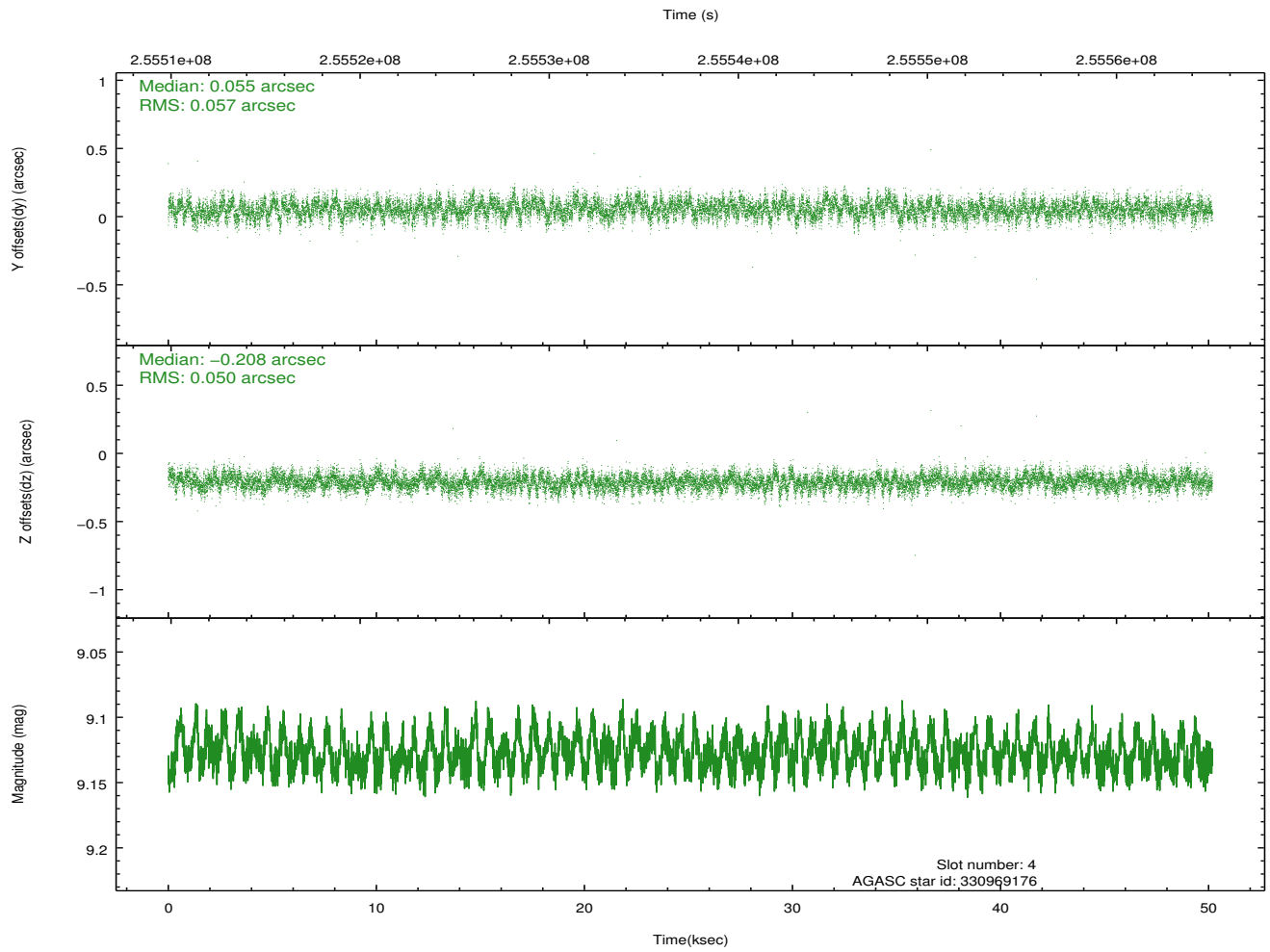
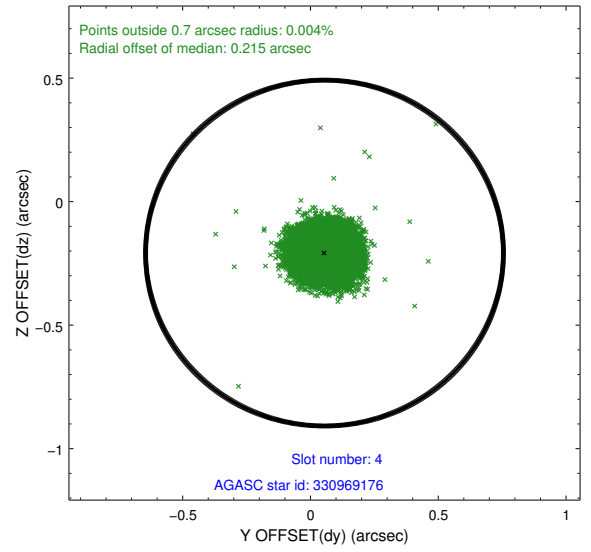
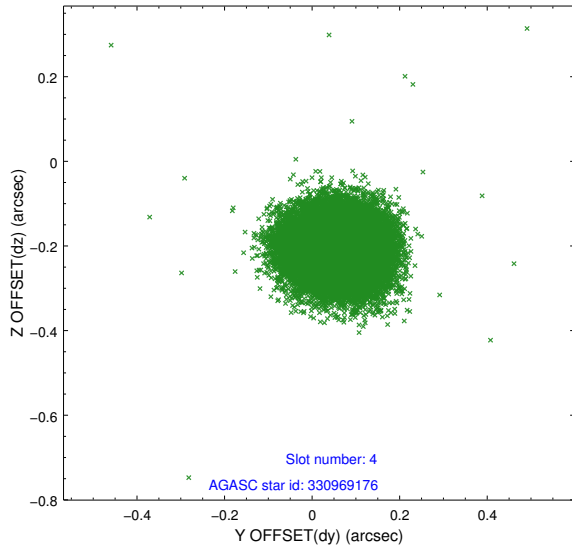
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## 2.4 Star Slots

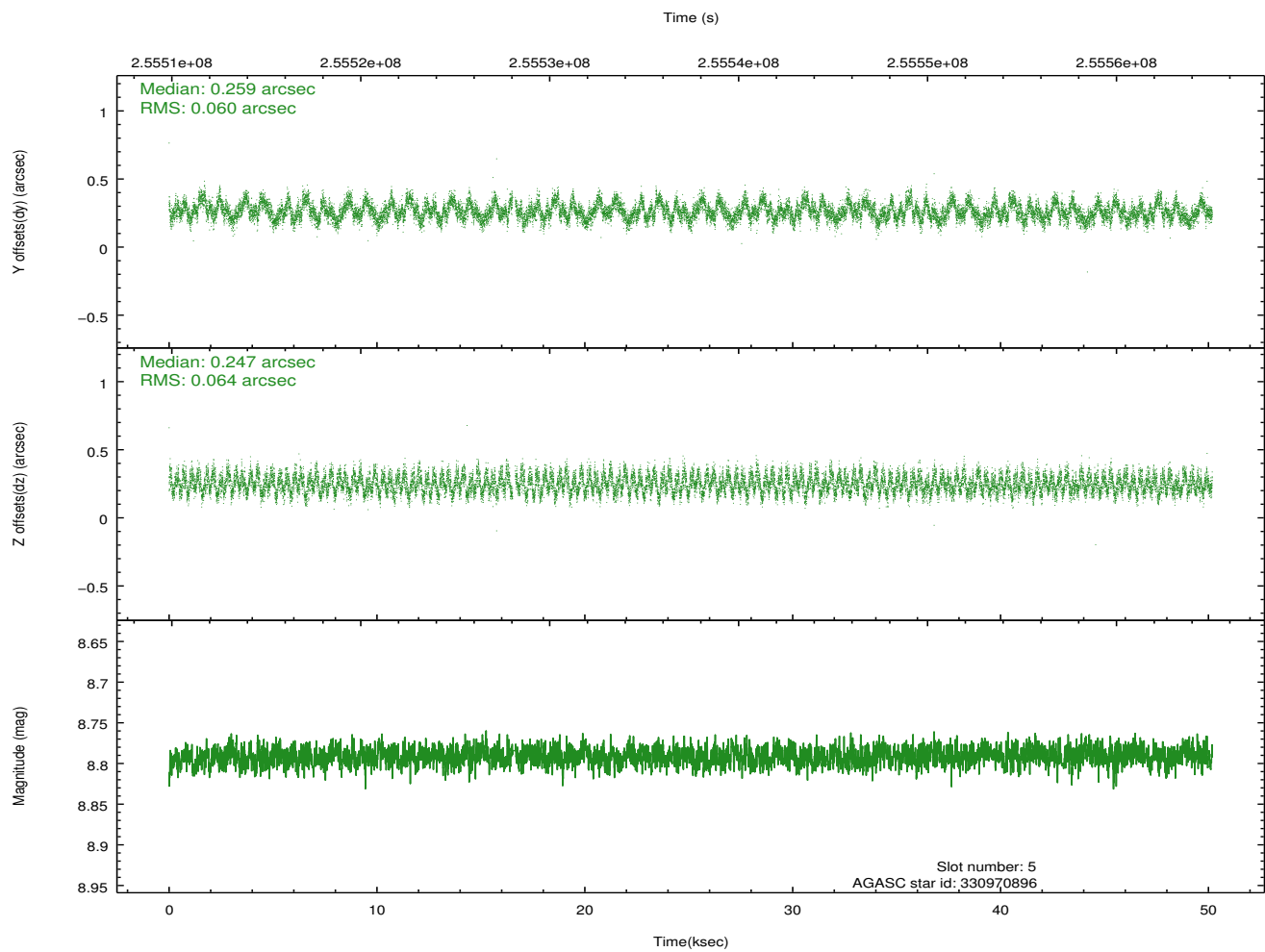
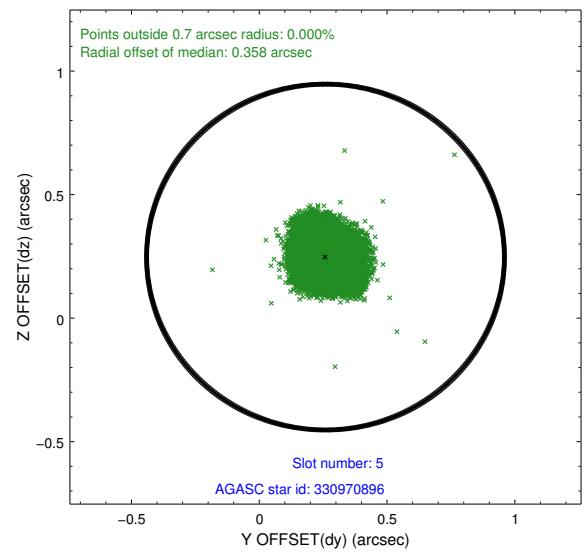
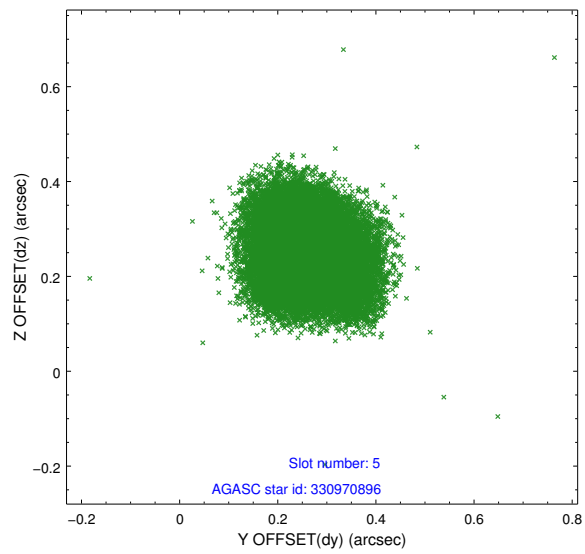
### 2.4.1 Slot 3



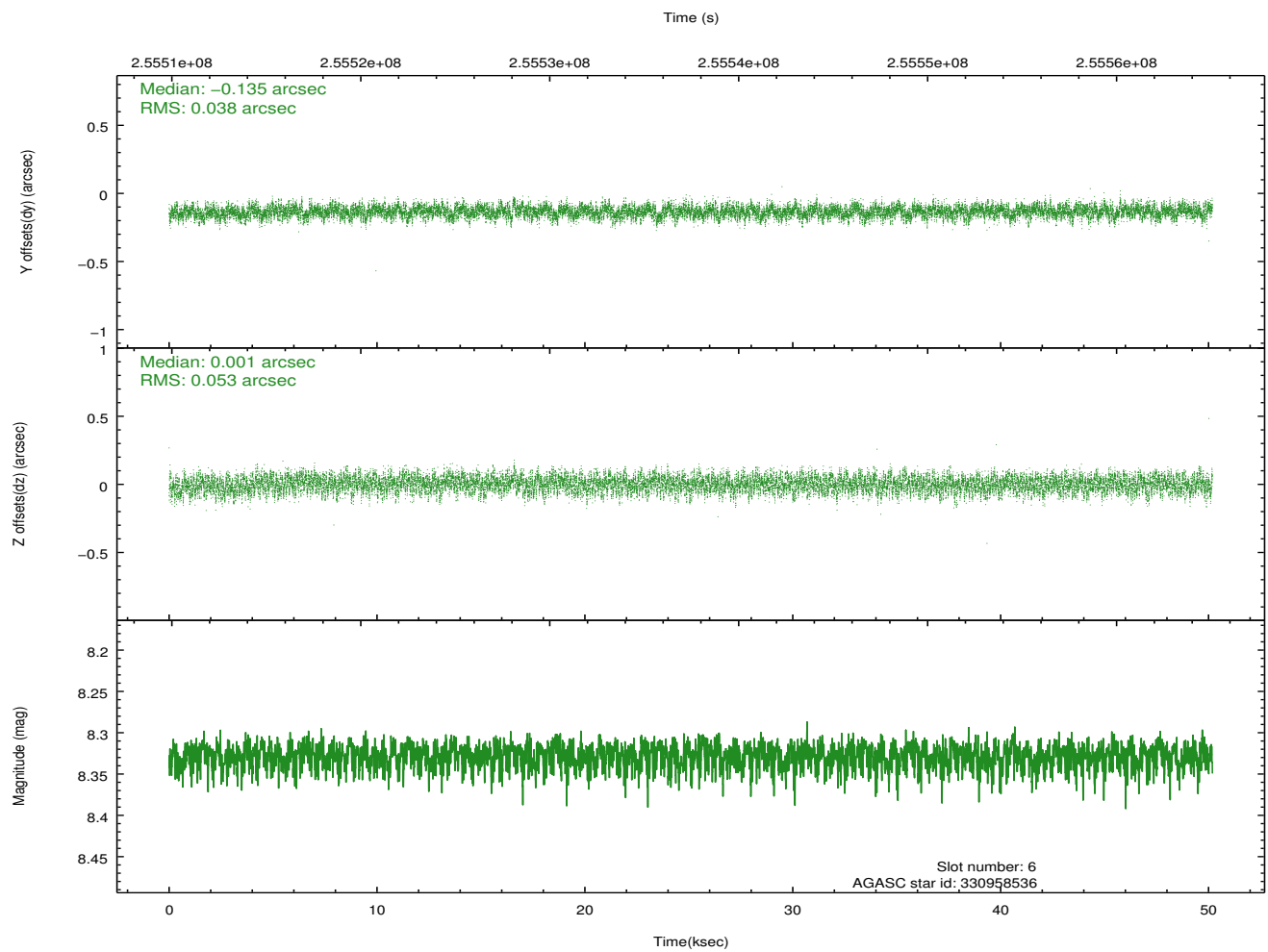
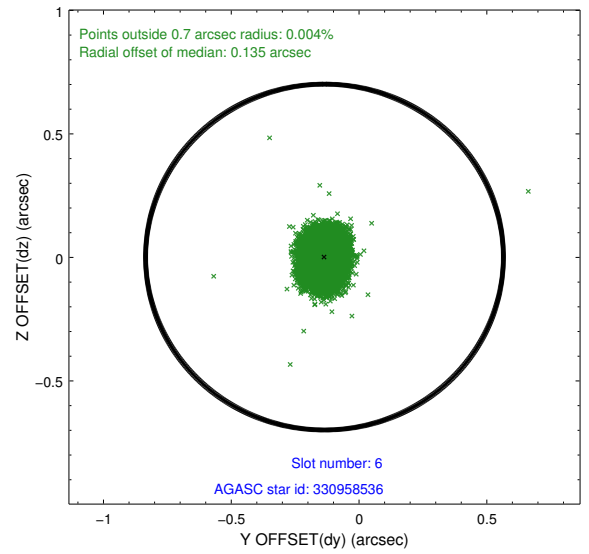
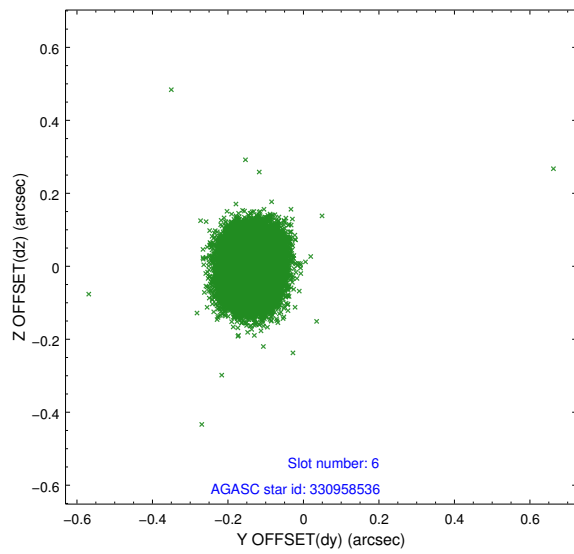
## 2.4.2 Slot 4



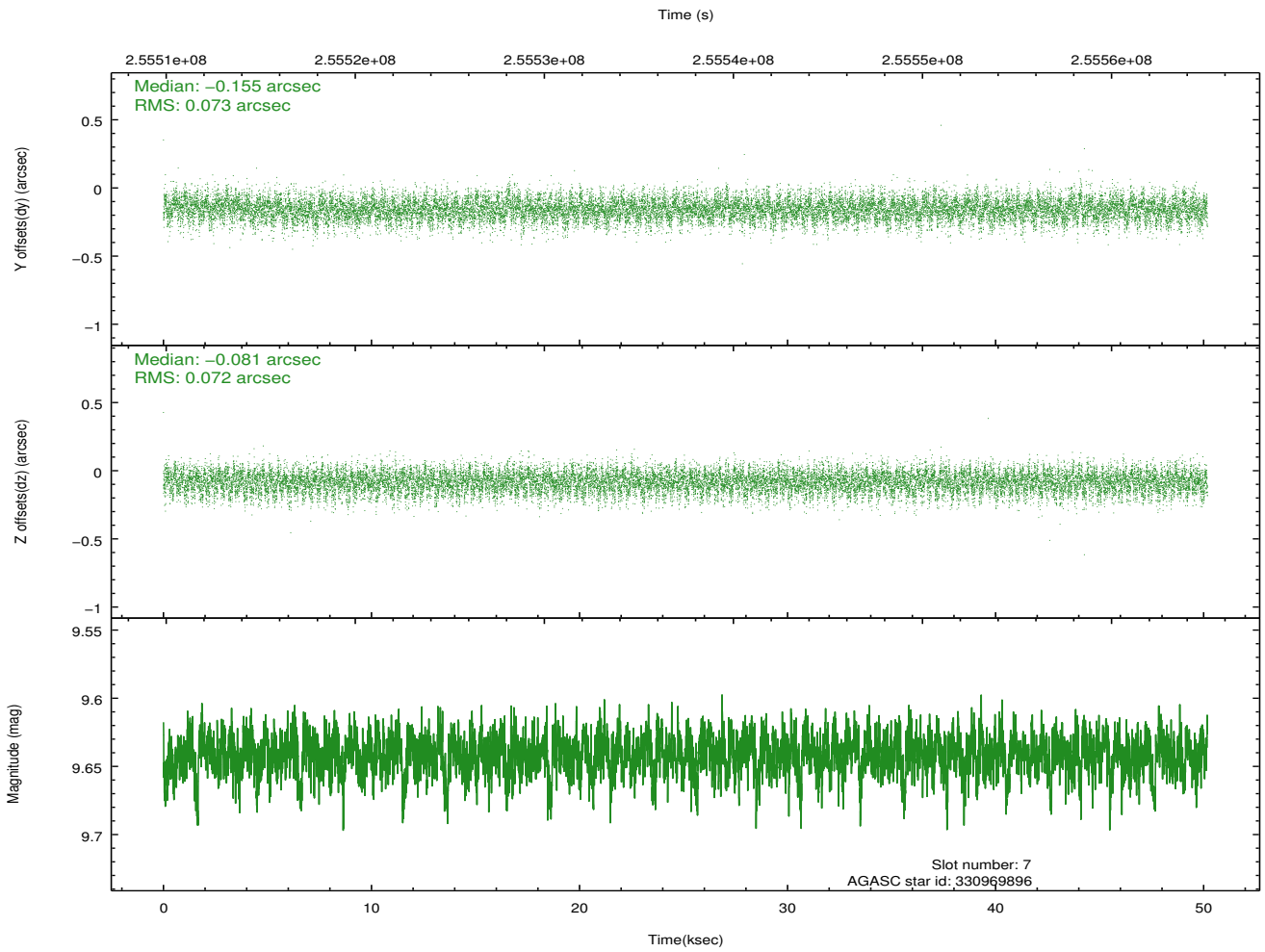
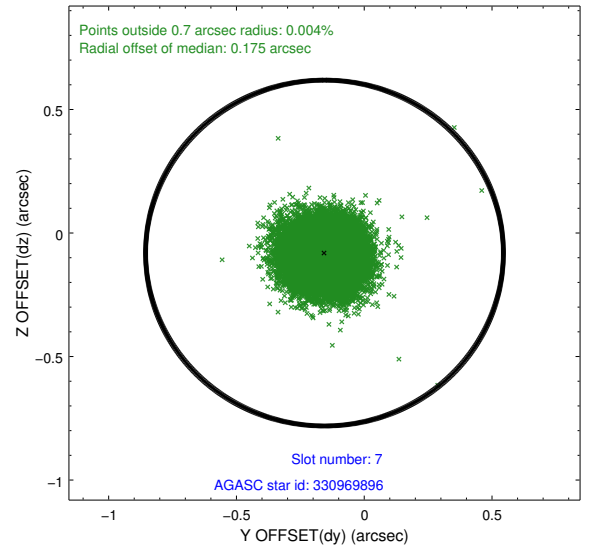
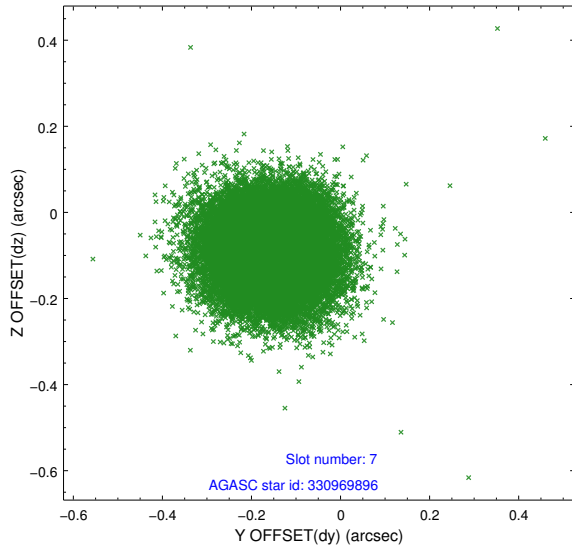
### 2.4.3 Slot 5



## 2.4.4 Slot 6

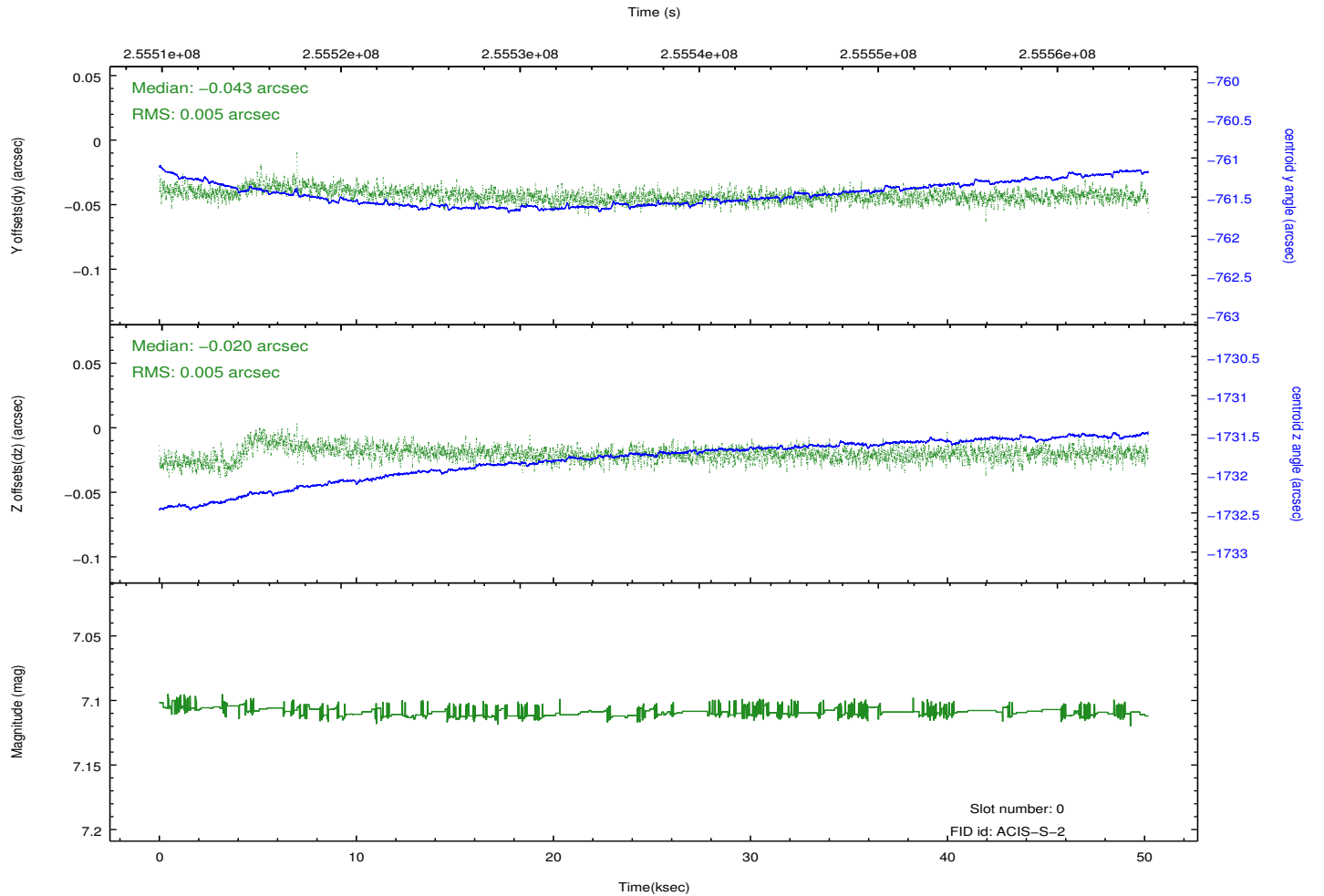
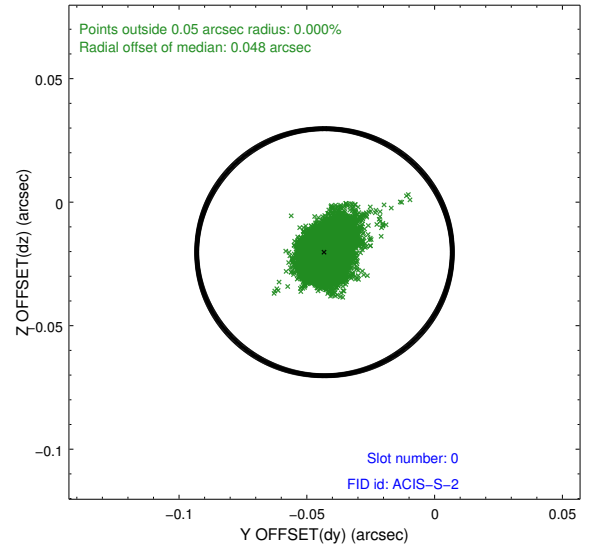
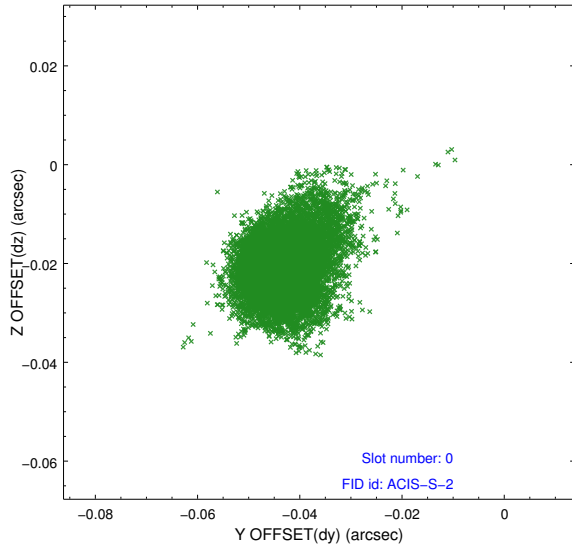


### 2.4.5 Slot 7

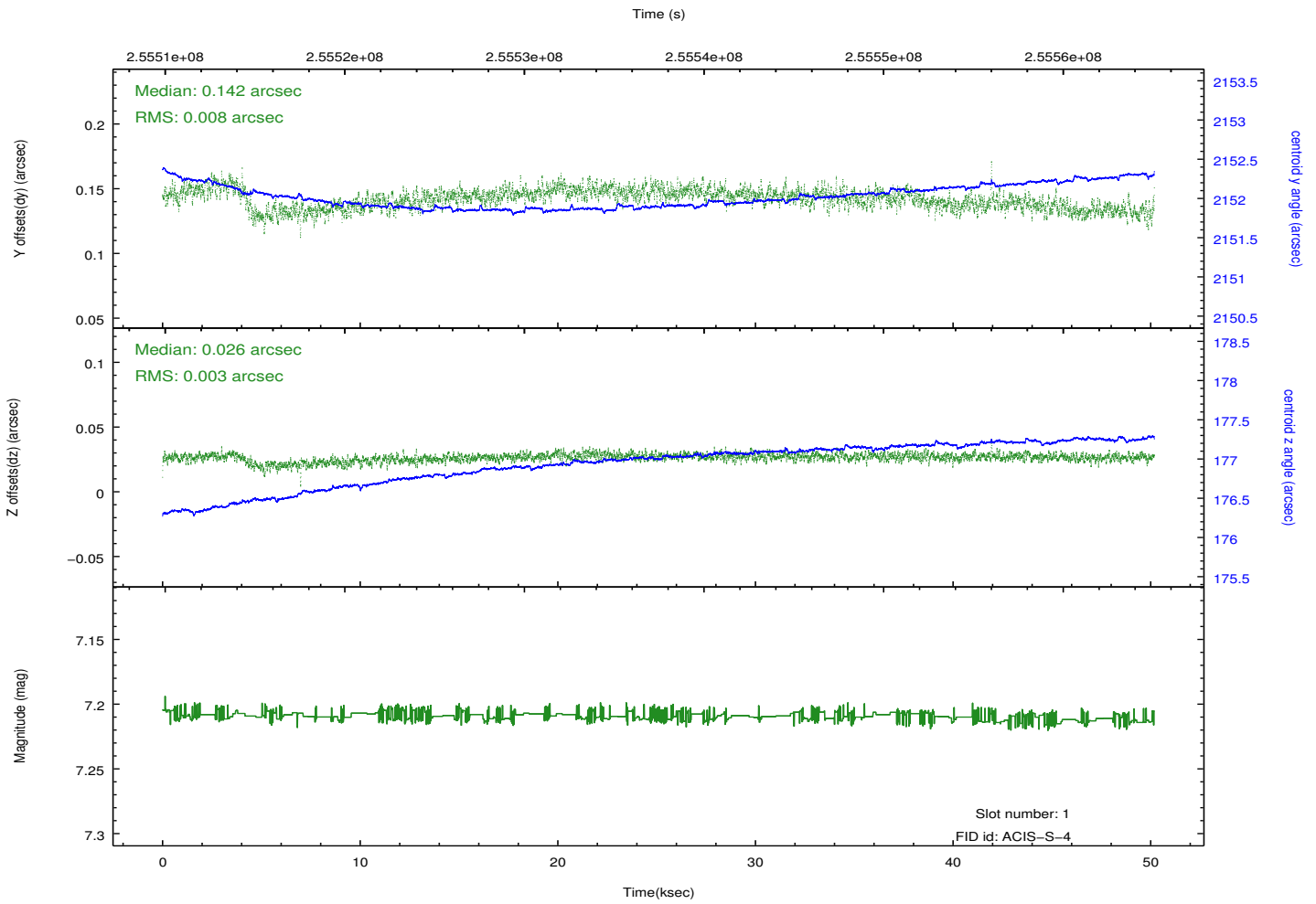
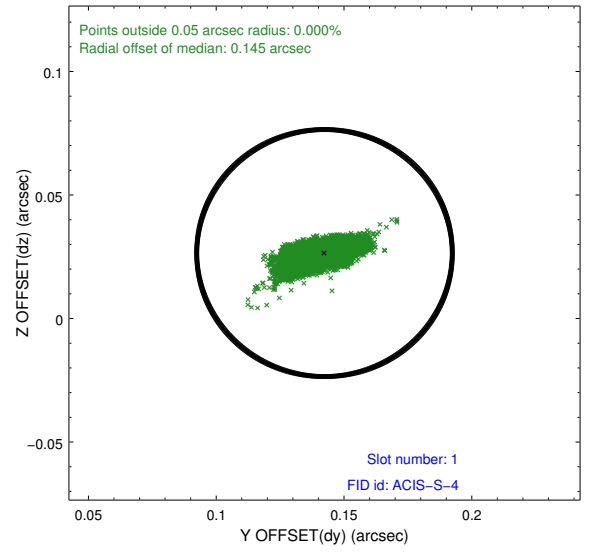


## 2.5 FID Slots

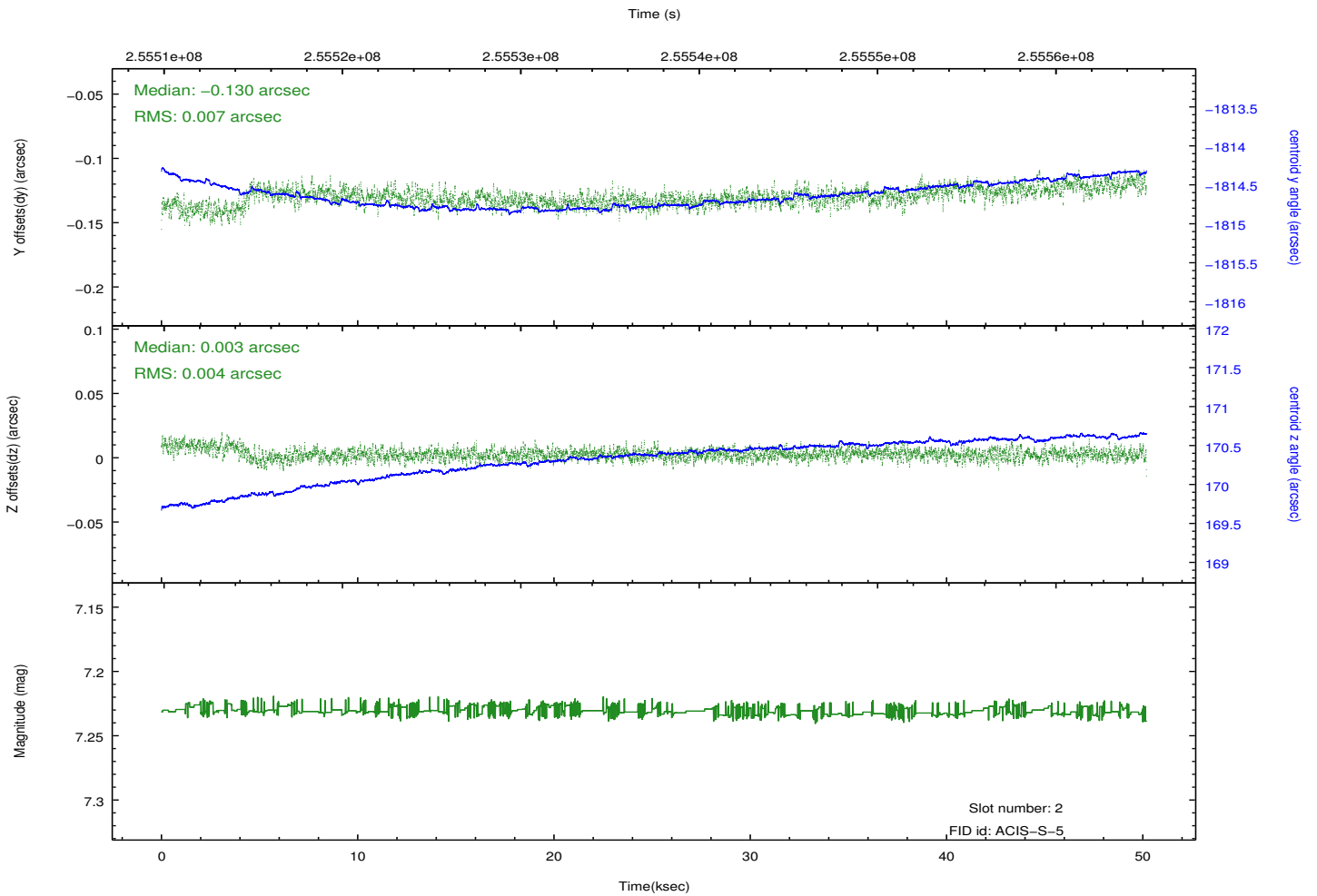
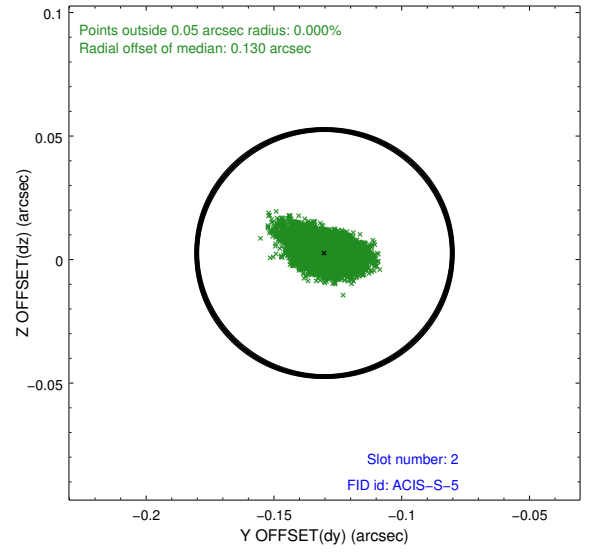
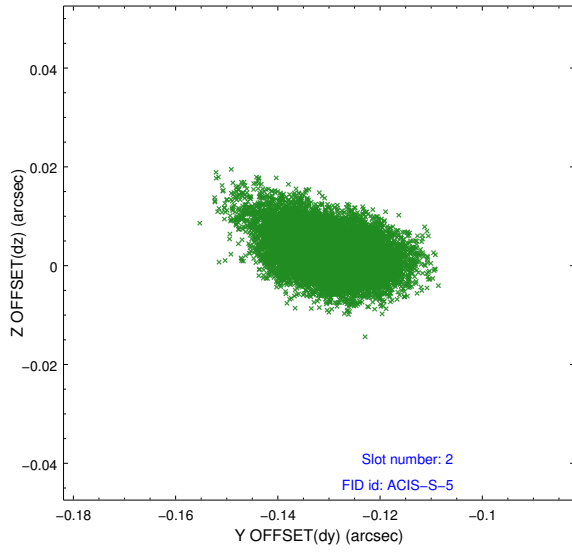
### 2.5.1 Slot 0



## 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)	2012.03.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	50.0401999

## A.2 Comments