

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8270 - L2 Version 2  
Chandra X-Ray Center

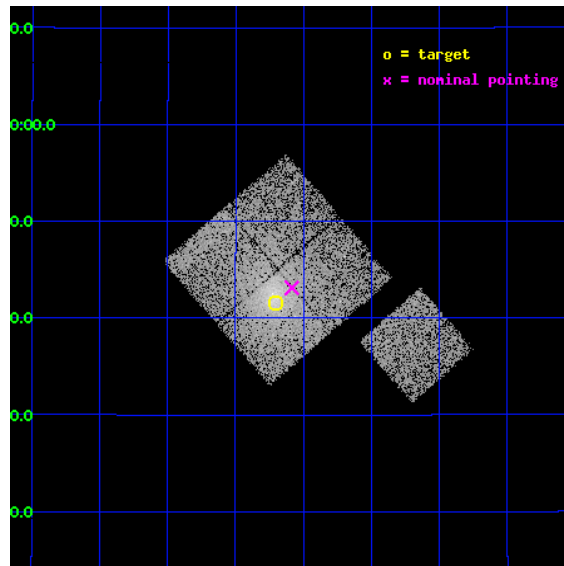
L2 Processing Date : Apr 29 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

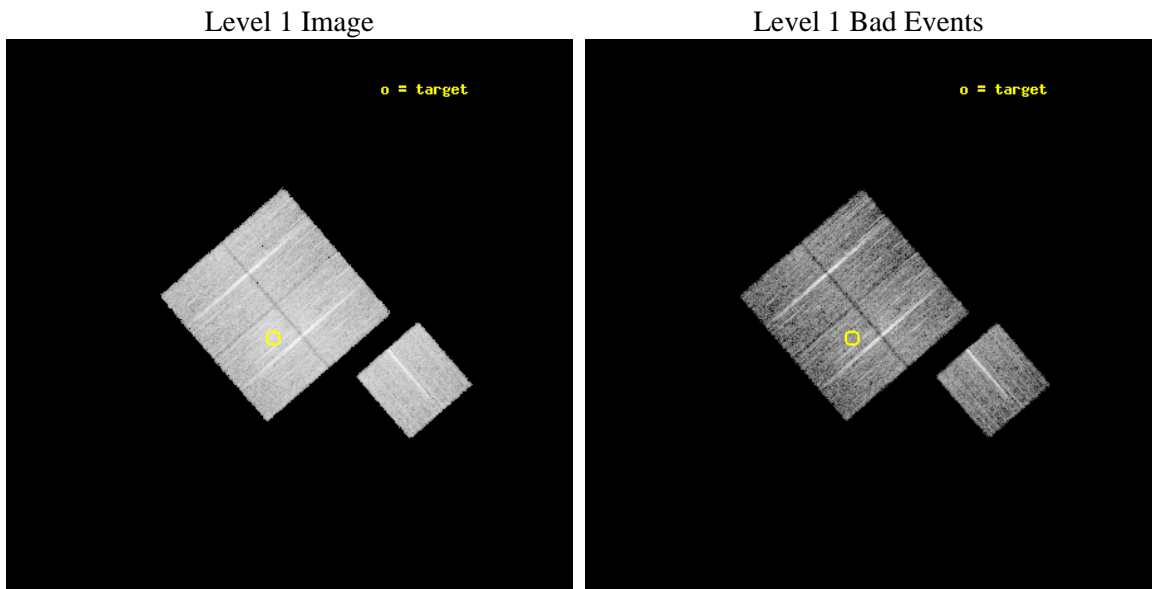
seq_num	800665	Sequence number
obs_id	8270	Observation id
title	Chandra observations of flux-limited sample of low-redshift galaxy clusters - A	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	A2572	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	349.3	Observer's specified target RA [deg]
dec_targ	18.692778	Observer's specified target Dec [deg]
ra_nom	349.2711372759	Nominal RA [deg]
dec_nom	18.718844256688	Nominal Dec [deg]
roll_nom	139.08494343611	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8131.2591022253	Sum of GTIs [s]
livetime	8025.0182159089	Livetime [s]
ontime0	8134.400062561	Sum of GTIs [s]
ontime1	8131.2590622902	Sum of GTIs [s]
ontime2	8131.2590922117	Sum of GTIs [s]
ontime3	8131.2591022253	Sum of GTIs [s]
ontime6	8134.400062561	Sum of GTIs [s]
l2events	39656	Number of level 2 events



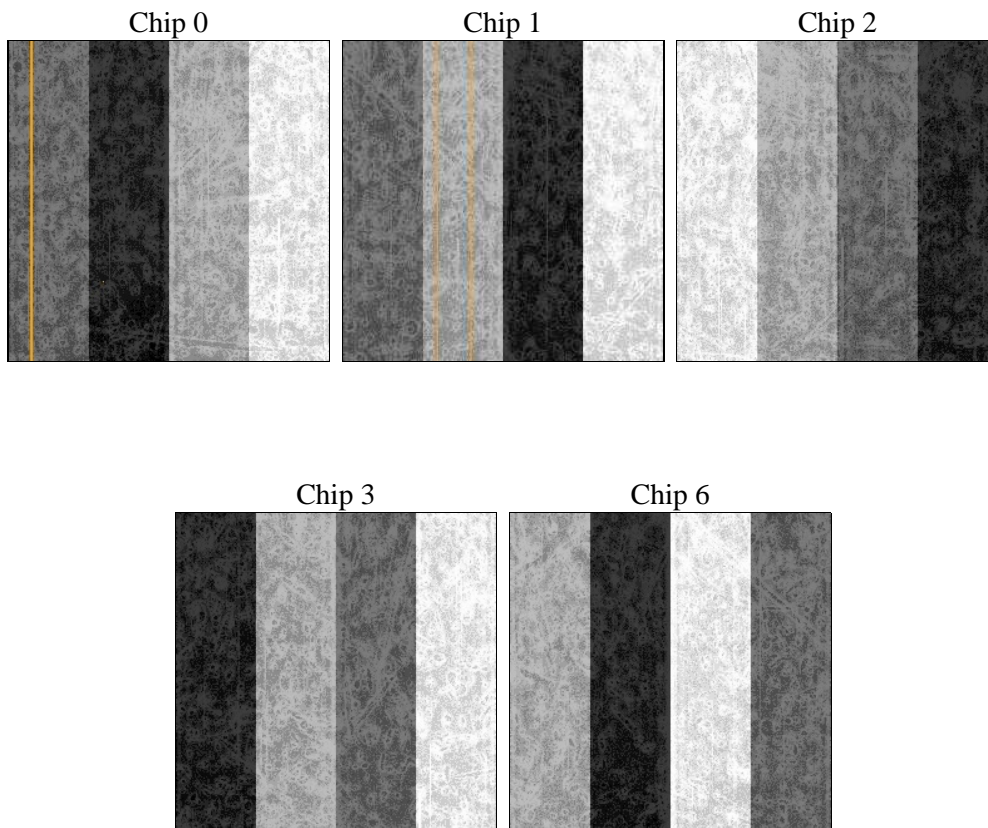
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	8131.2591022253	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	8134.400062561	Sum of GTIs [s]
date	2012-04-29T13:19:32	Date and time of file creation	ontime1	8131.2590622902	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8131.2590922117	Sum of GTIs [s]
			ontime3	8131.2591022253	Sum of GTIs [s]
			ontime6	8134.400062561	Sum of GTIs [s]
			l1events	334575	Number of level 1 events

### 2.1.4 Events

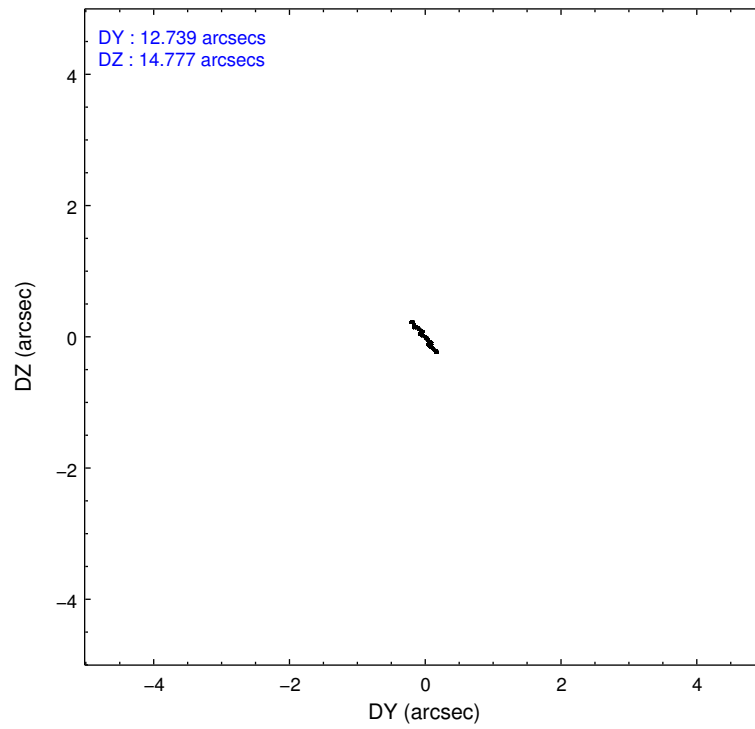
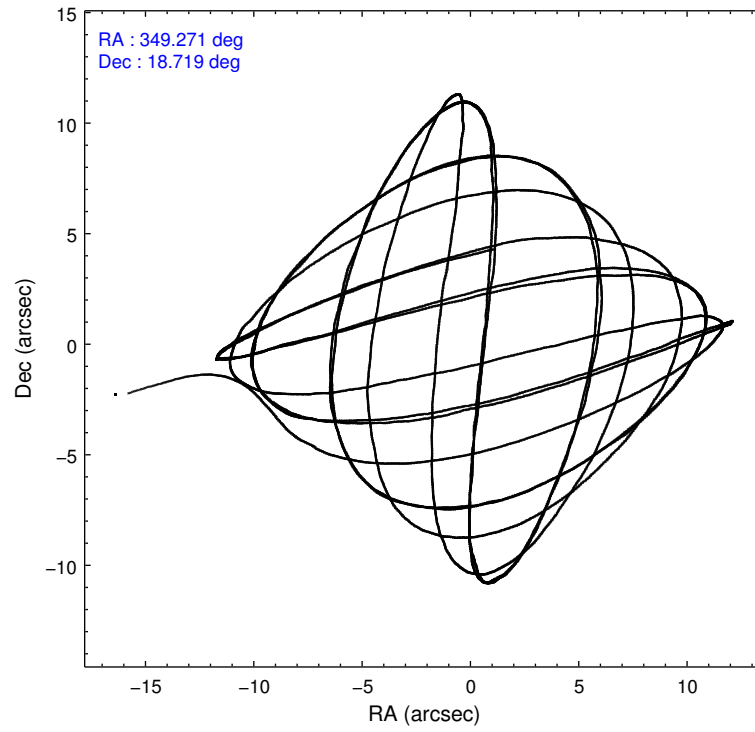
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	63007	61685	72628	73571	63684
rejected events	55788	52297	64358	59428	57024
rejected %	88%	84%	88%	80%	89%

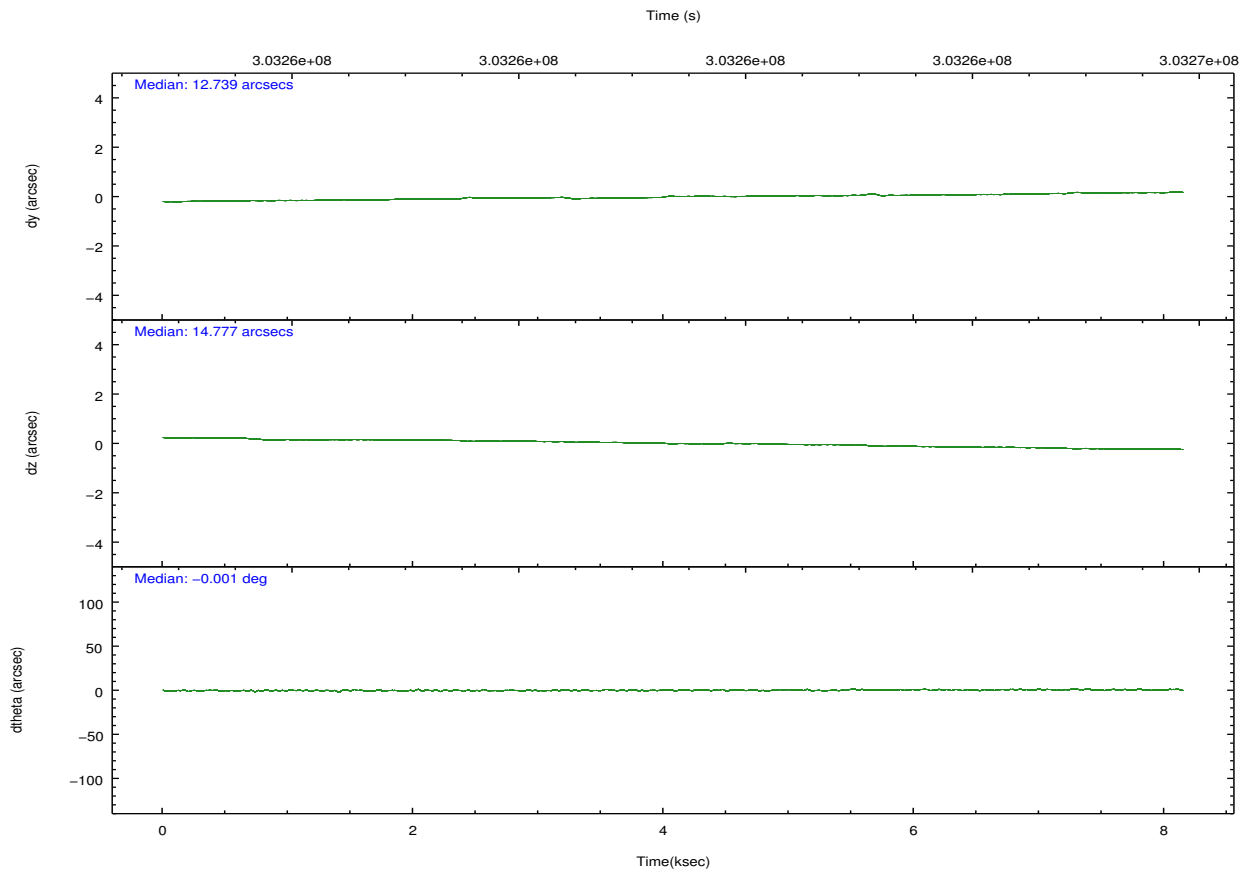
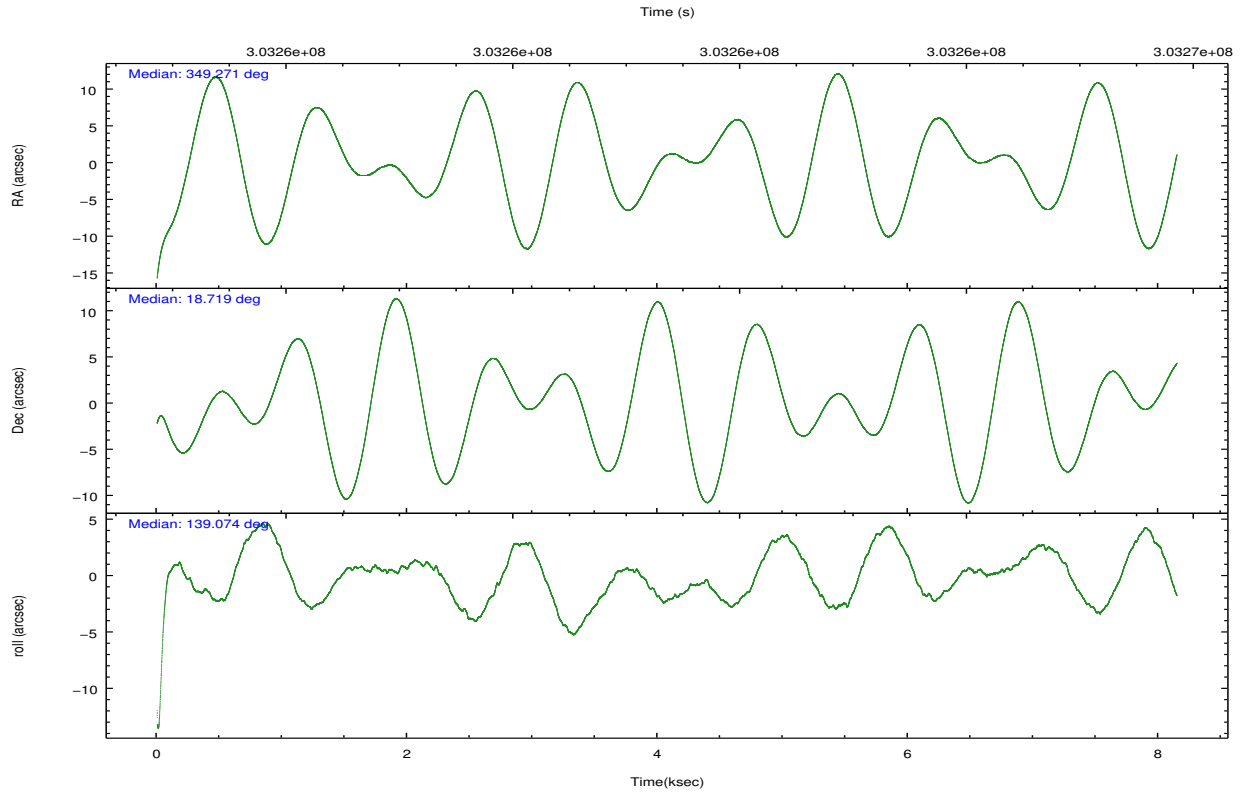
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2876	4387	3825	8687	2291
	4%	7%	5%	11%	3%
grade 1 events	50	41	52	81	38
	0%	0%	0%	0%	0%
grade 2 events	1725	1828	1800	2213	1482
	2%	2%	2%	3%	2%
grade 3 events	711	850	735	970	723
	1%	1%	1%	1%	1%
grade 4 events	672	876	715	913	710
	1%	1%	0%	1%	1%
grade 5 events	2257	2537	2212	2749	2606
	3%	4%	3%	3%	4%
grade 6 events	1242	1457	1201	1375	1459
	1%	2%	1%	1%	2%
grade 7 events	53474	49709	62088	56583	54375
	84%	80%	85%	76%	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	349.299745	349.2711372758989	Subarray requested	NONE	NONE
[deg] Pointing Dec	18.713784	18.71884425668797	Alternating exposures requested	N	N
[deg] Pointing Roll	138.867095	139.0849434361094	[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	-228.592463	-228.6015472178352			
[mm] SIM translation stage offset	-5	-4.990905785094469			
[s] Observation start time (MET)	303257434.184000	303256459.59841			
Observation start date	2007-08-11T22:09:29	2007-08-11T21:54:19			
[s] Observation end time (MET)	303265434.184000	303265979.28636			
Observation end date	2007-08-12T00:22:49	2007-08-12T00:32:59			
Read mode	TIMED	TIMED			

## 2.3 Aspect



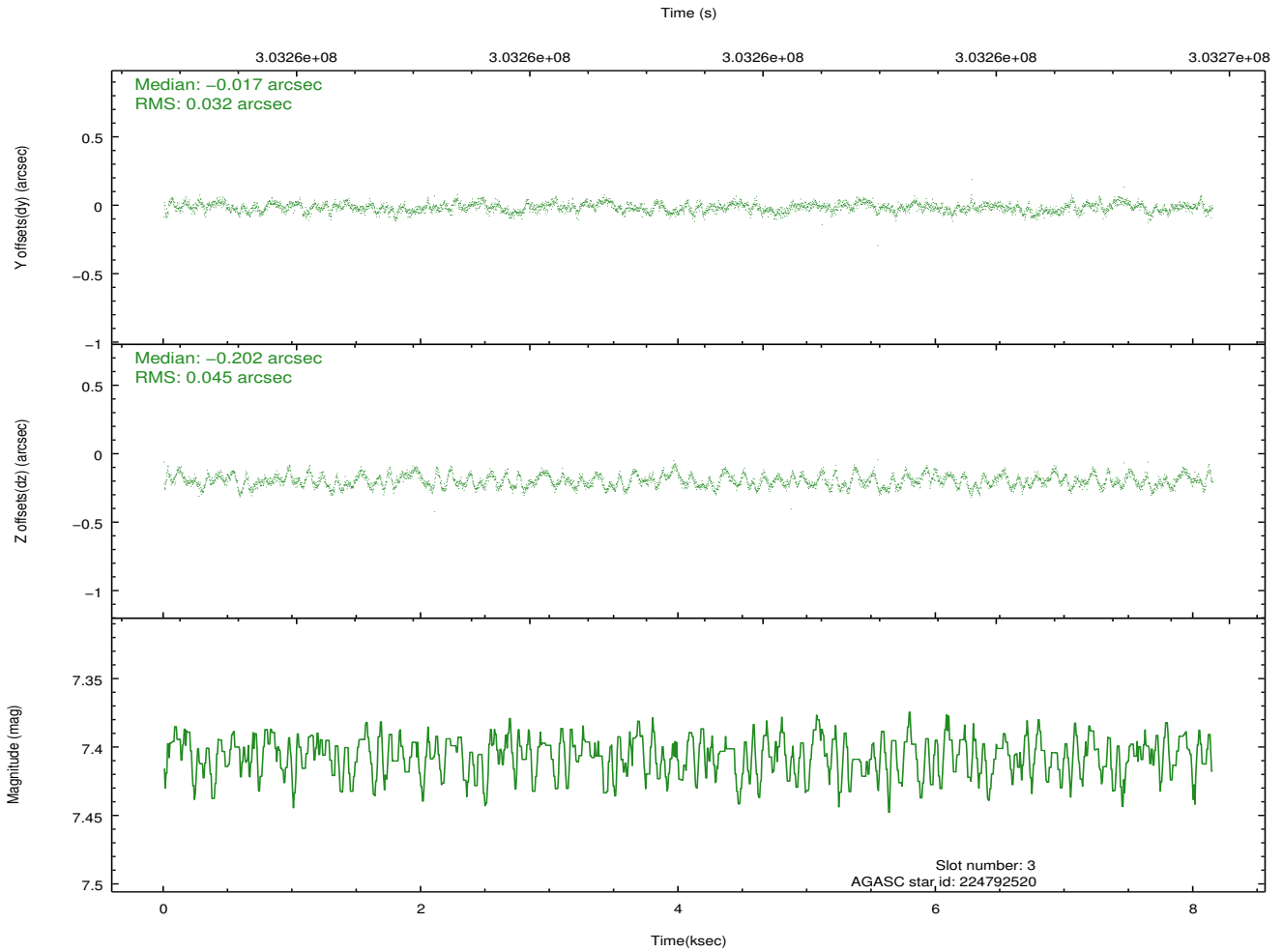
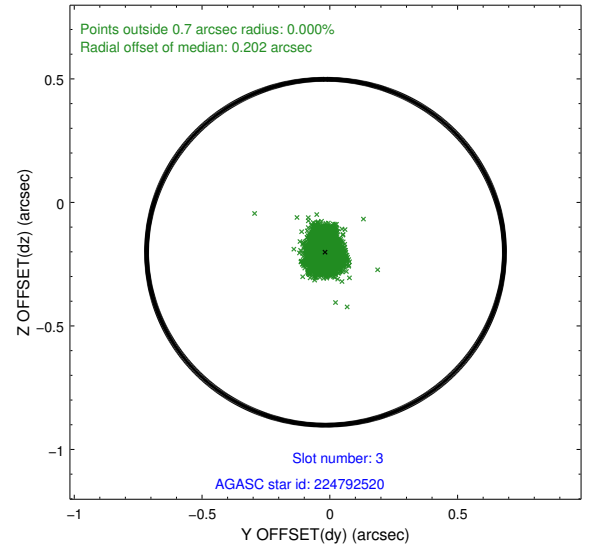
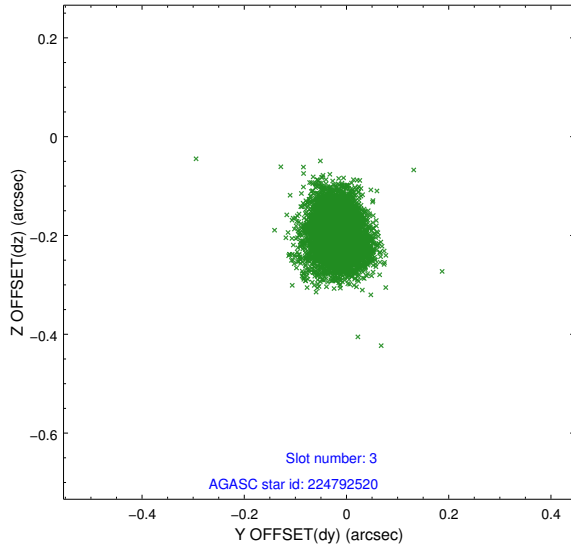


### Slot Statistics

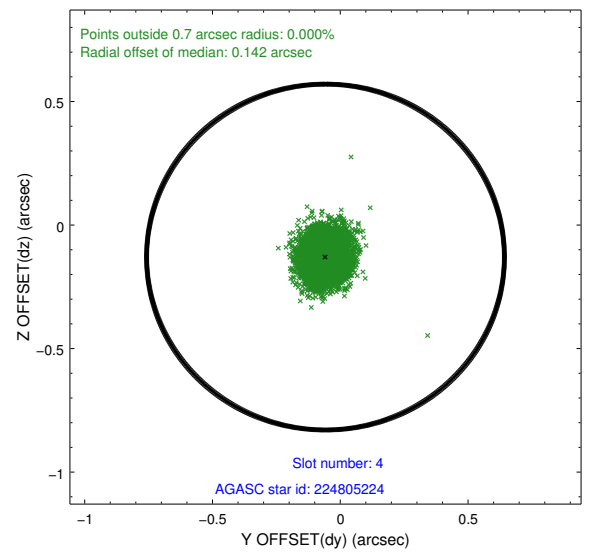
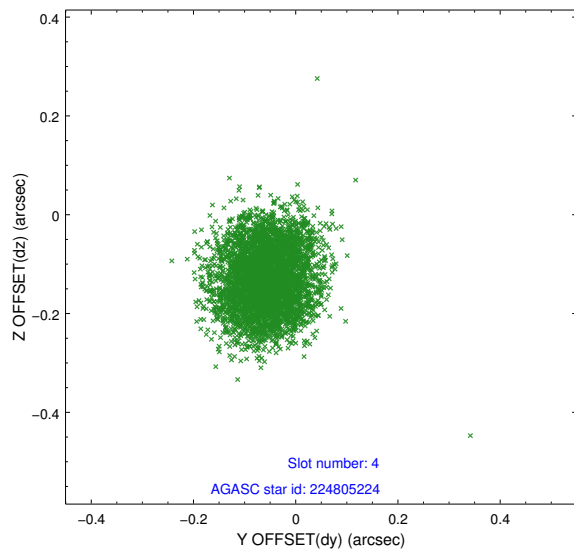
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.22	1987	0.102	-0.056	0.011	0.018	0.000000	0.000000	926.80	-940.86
1	FID	ACIS-I-5	7.22	1987	-0.250	0.093	0.008	0.014	0.000000	0.000000	-1821.26	956.41
2	FID	ACIS-I-6	7.23	1987	0.056	0.034	0.007	0.012	0.000000	0.000000	391.57	1601.62
3	GUIDE	224792520	7.41	3975	-0.017	-0.202	0.059	0.093	349.033184	18.257598	-394.02	1835.59
4	GUIDE	224805224	8.89	3959	-0.058	-0.130	0.087	0.134	348.882651	18.627211	867.56	1169.86
5	GUIDE	224922672	9.17	3972	-0.050	0.101	0.089	0.141	349.480849	19.013338	245.73	-1217.57
6	GUIDE	224926024	8.07	3970	0.068	0.092	0.061	0.095	349.603685	18.996289	-109.10	-1447.59
7	GUIDE	224929008	8.12	3974	0.056	0.137	0.065	0.104	349.694728	18.645727	-1174.64	-703.43

## 2.4 Star Slots

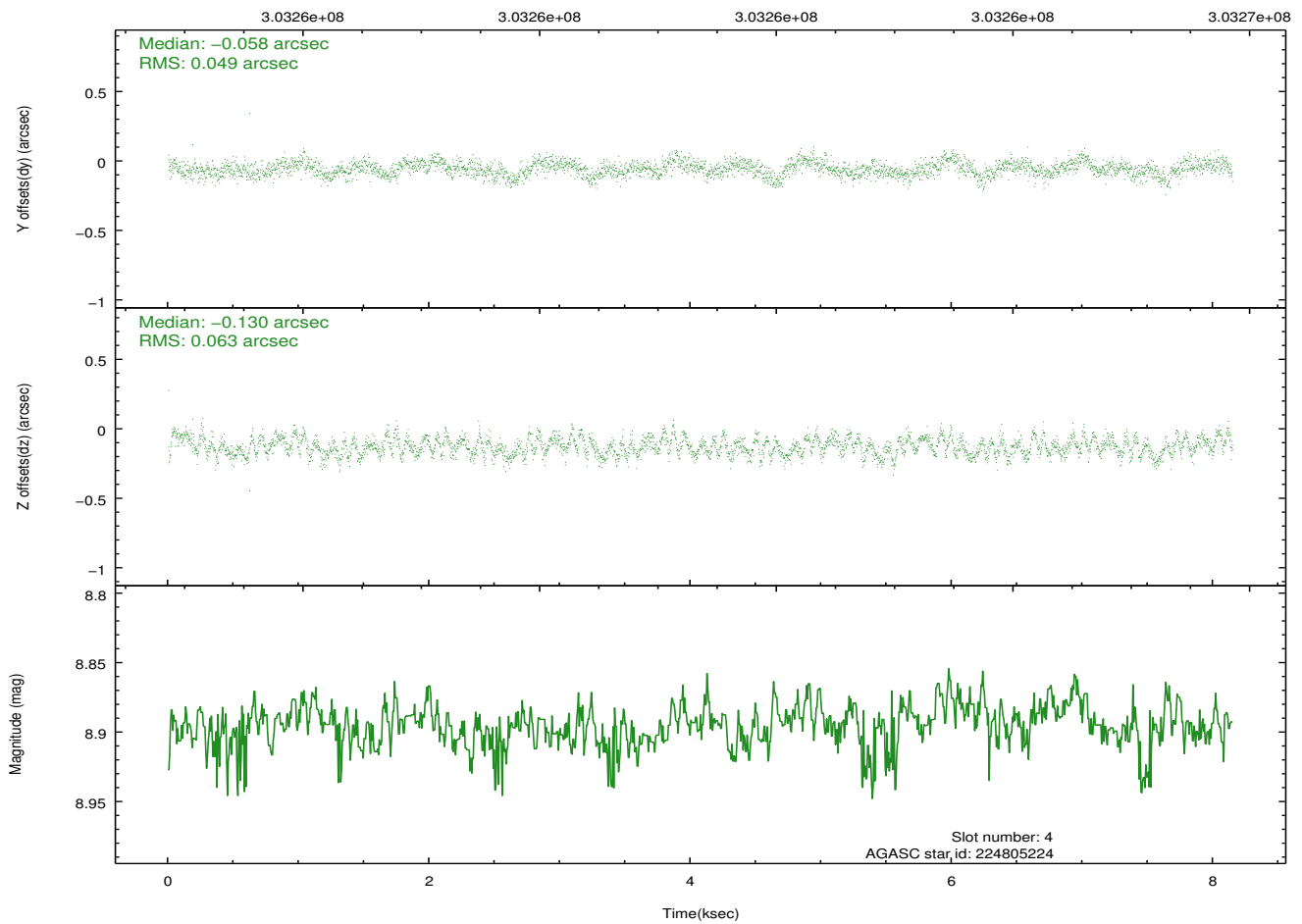
### 2.4.1 Slot 3



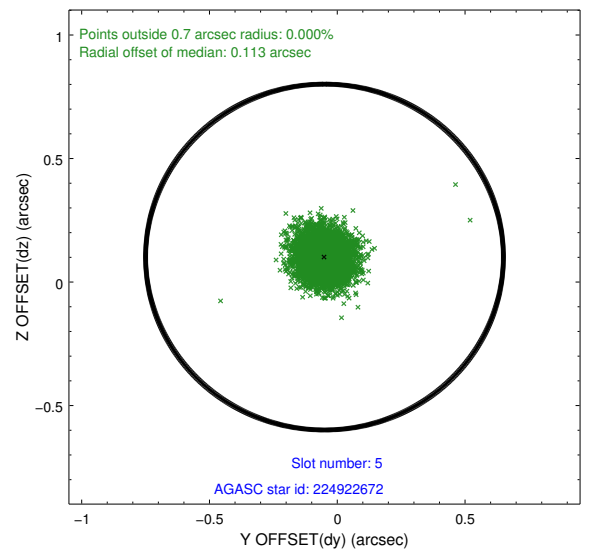
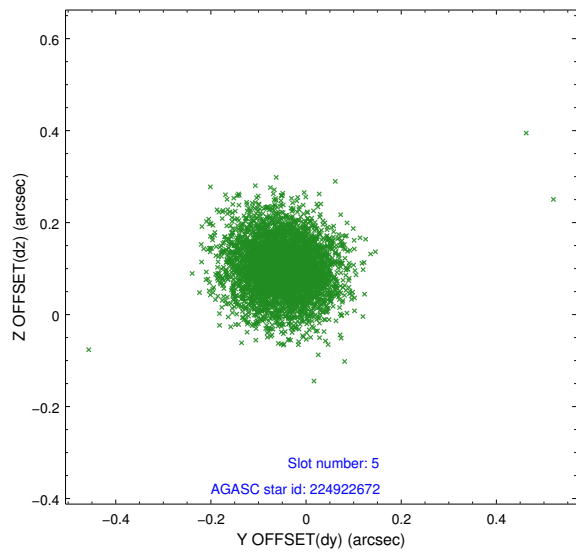
## 2.4.2 Slot 4



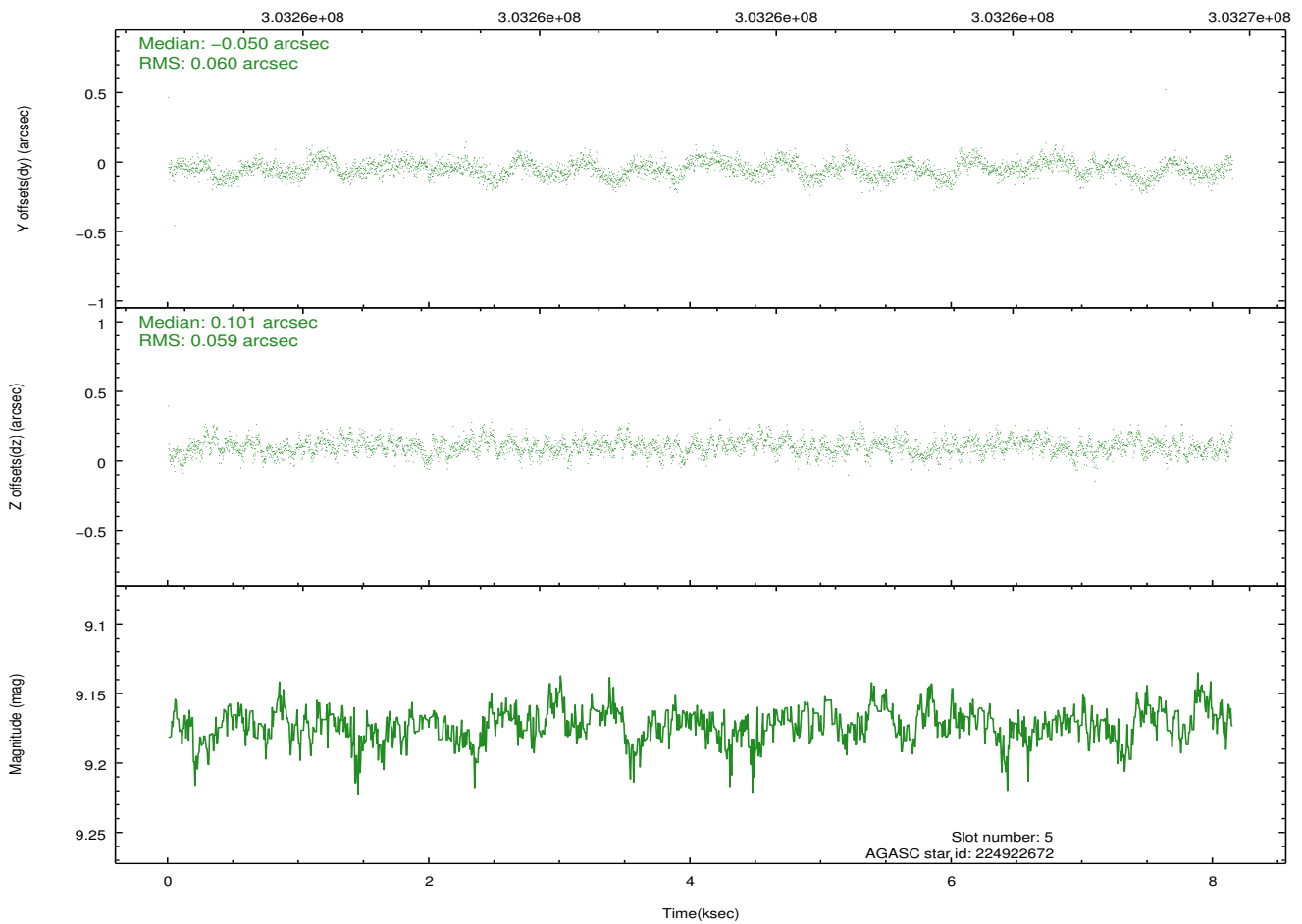
Time (s)



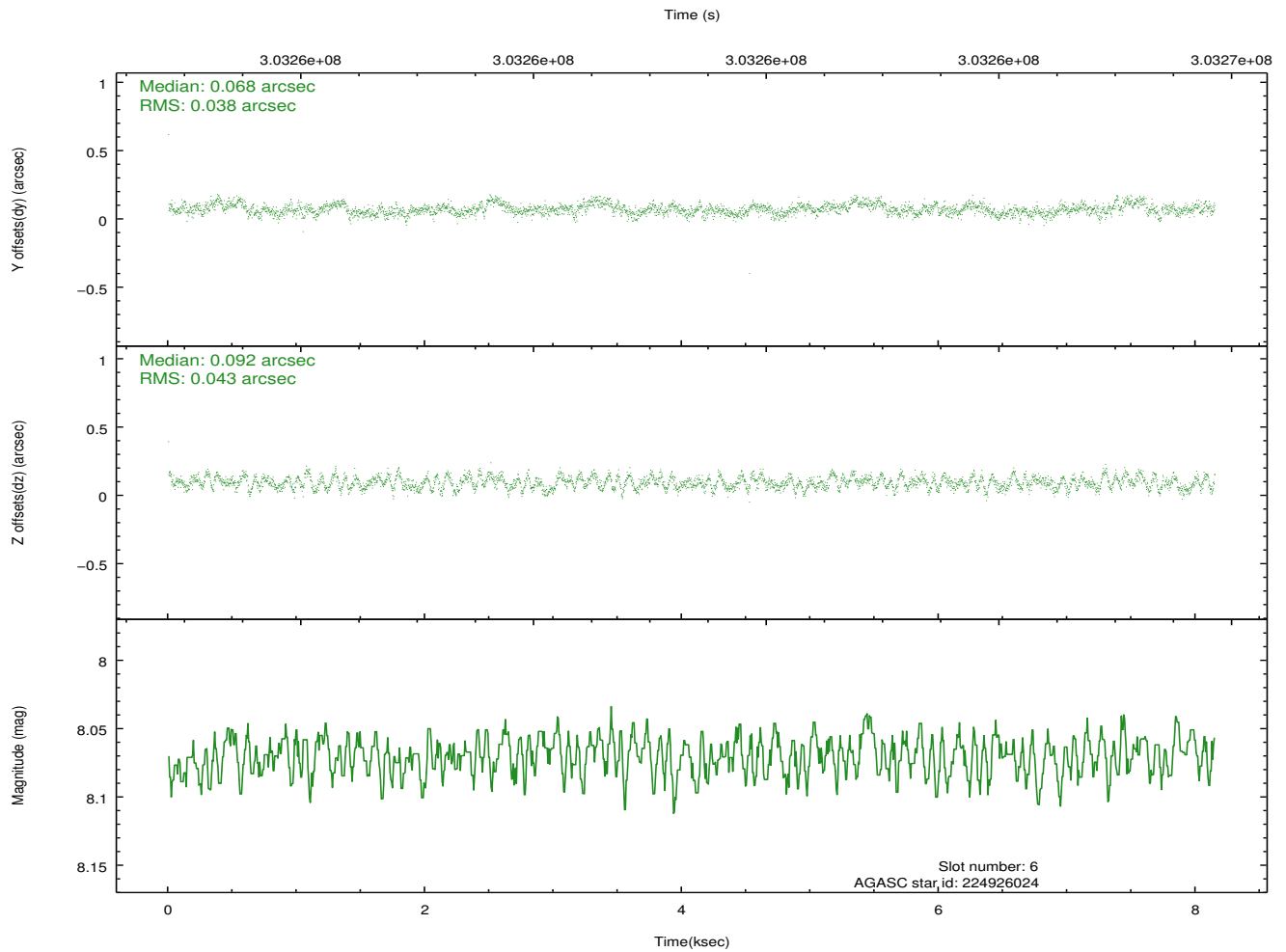
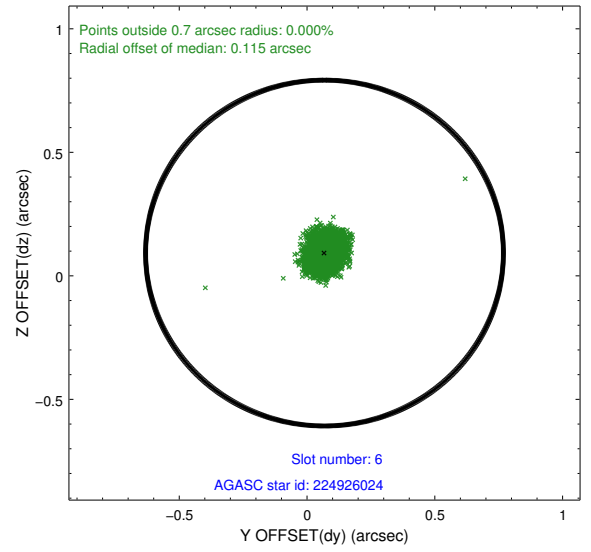
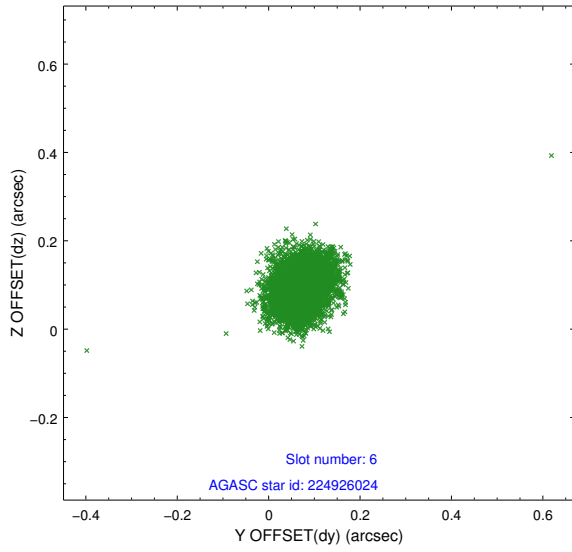
### 2.4.3 Slot 5



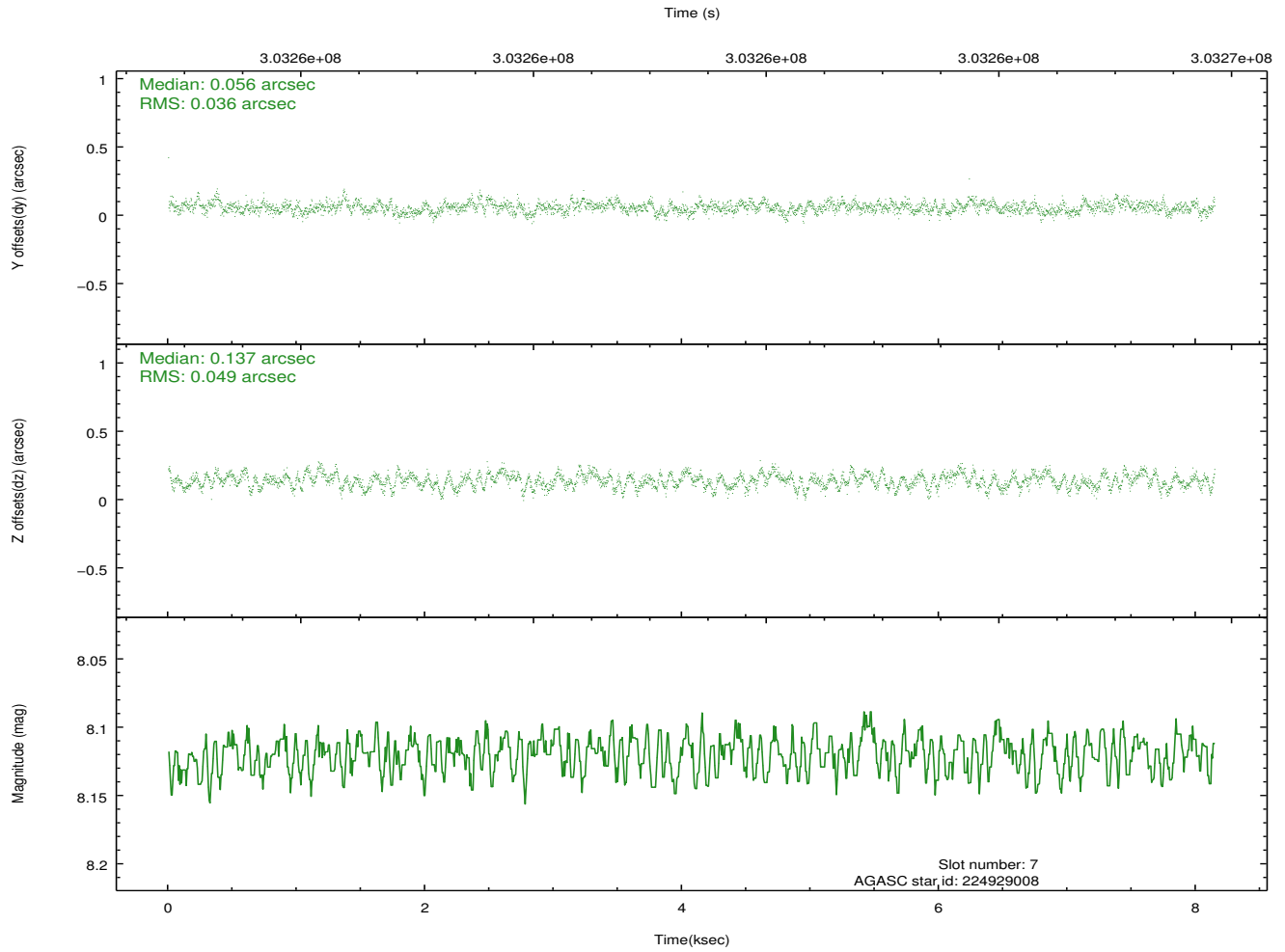
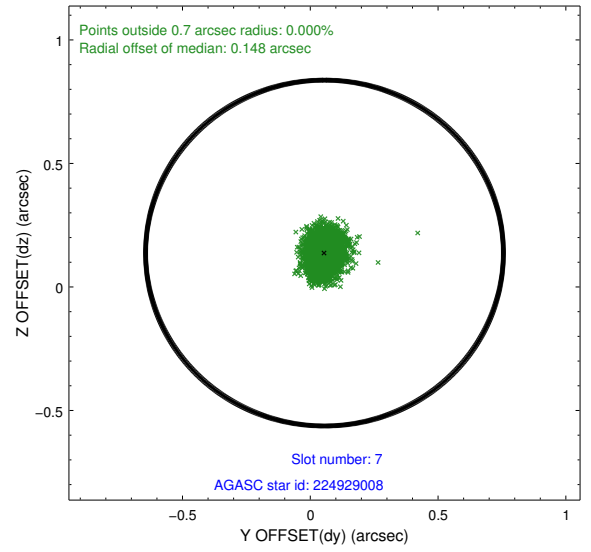
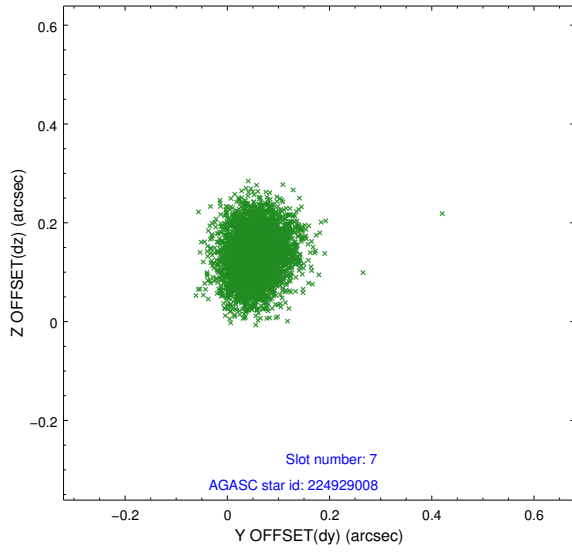
Time (s)



## 2.4.4 Slot 6

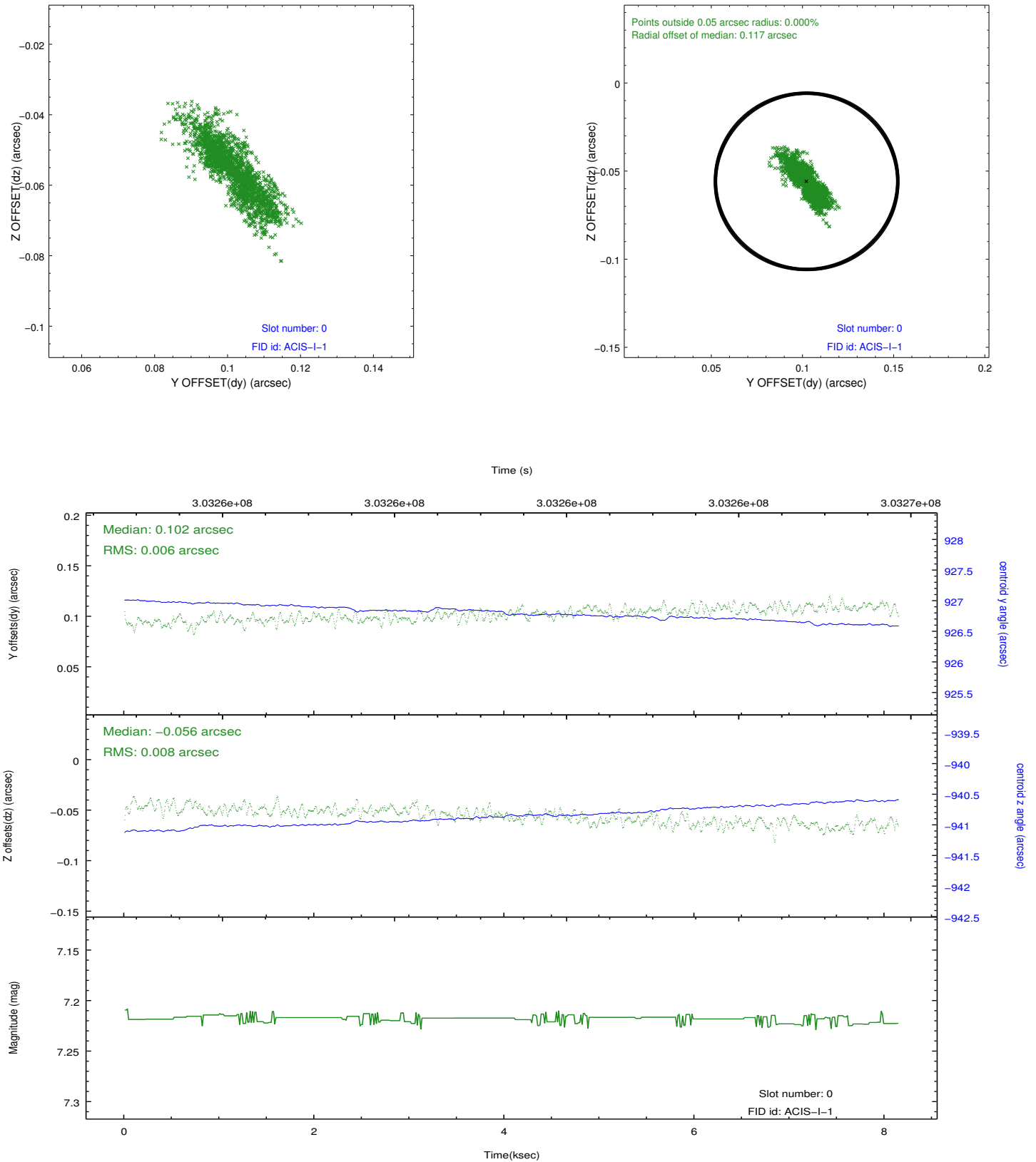


### 2.4.5 Slot 7

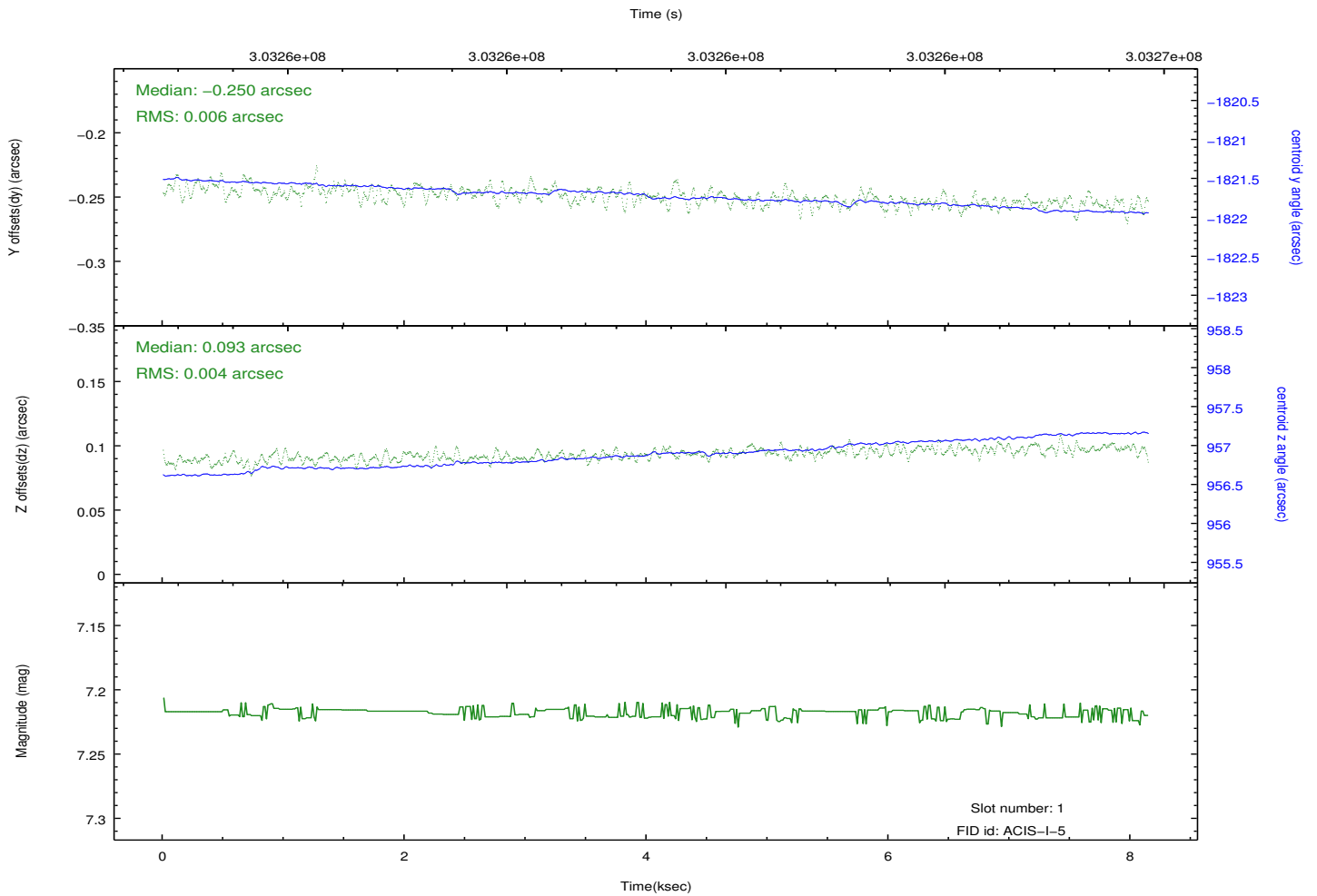
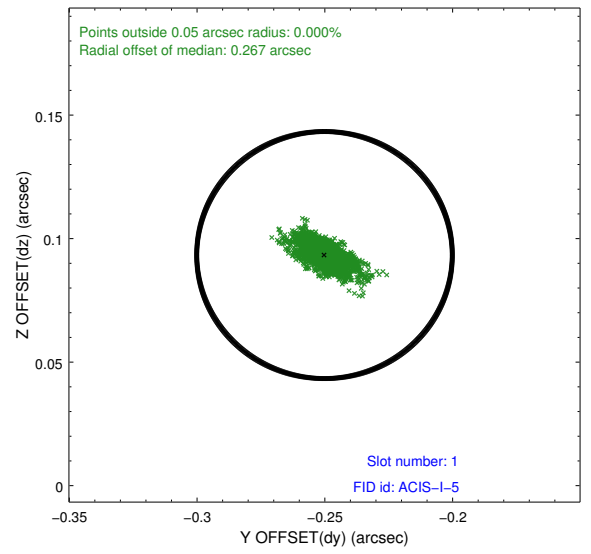
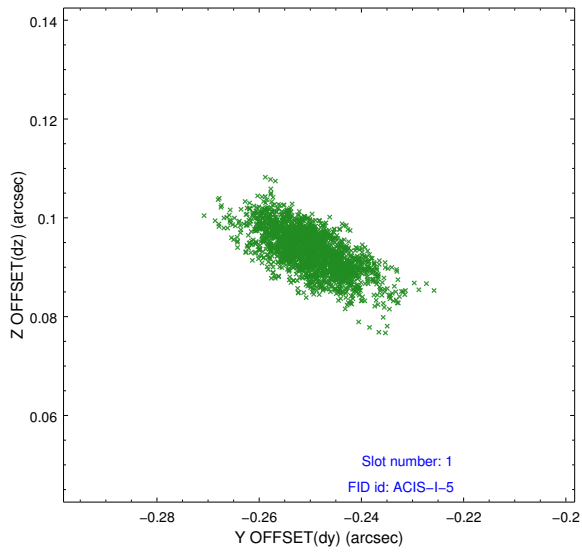


## 2.5 FID Slots

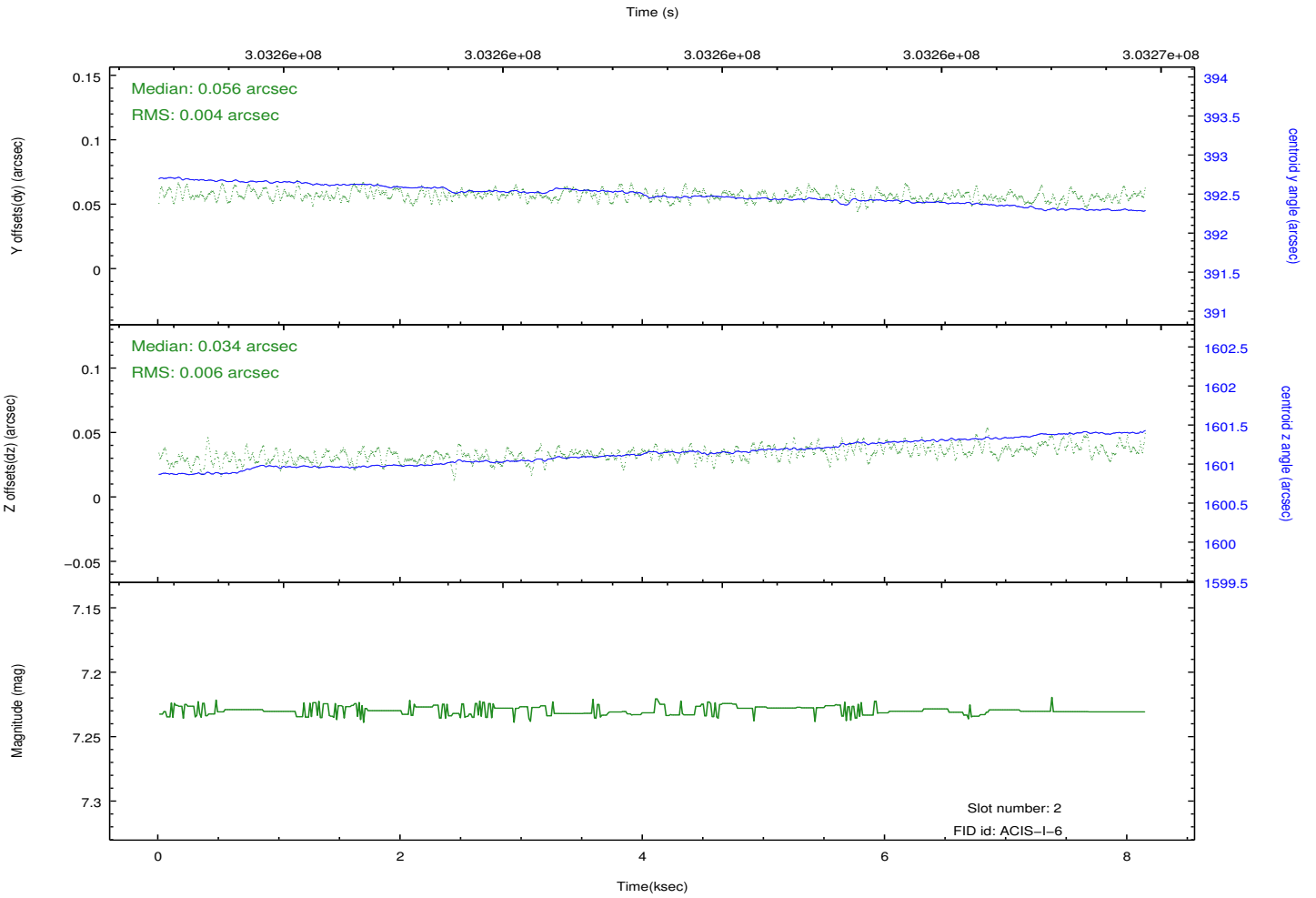
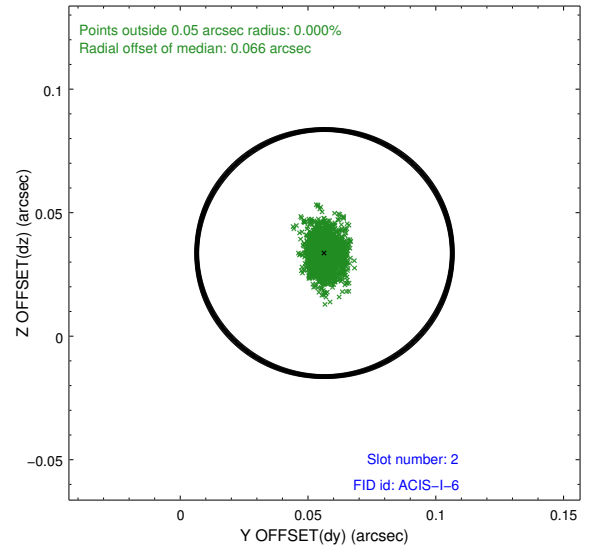
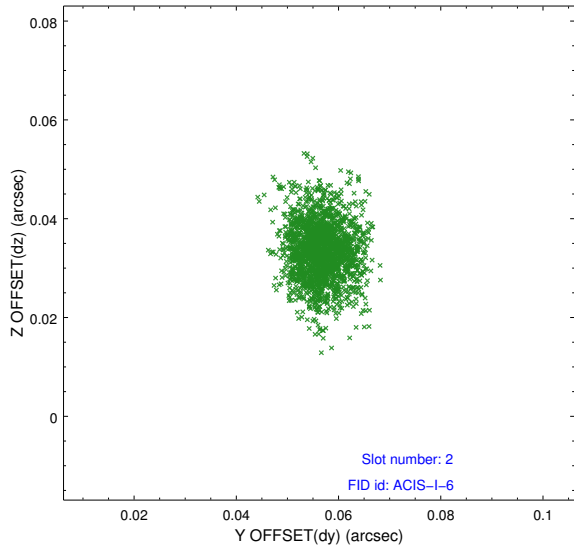
### 2.5.1 Slot 0



## 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)	2012.05.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1312591

## A.2 Comments