

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3651 - L2 Version 3  
Chandra X-Ray Center

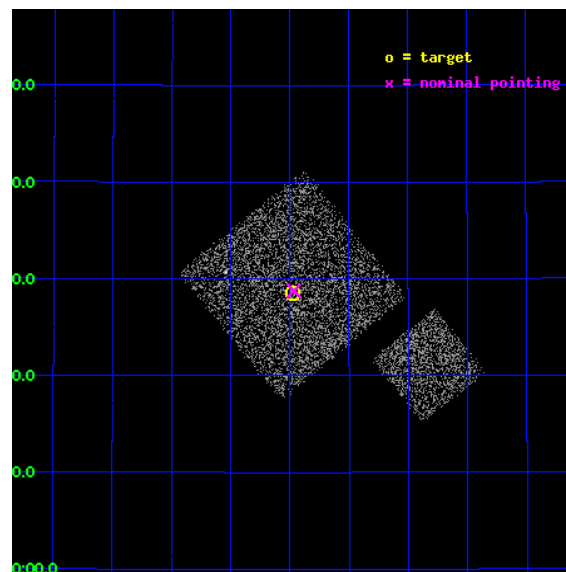
L2 Processing Date : Oct 24 2012

## 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

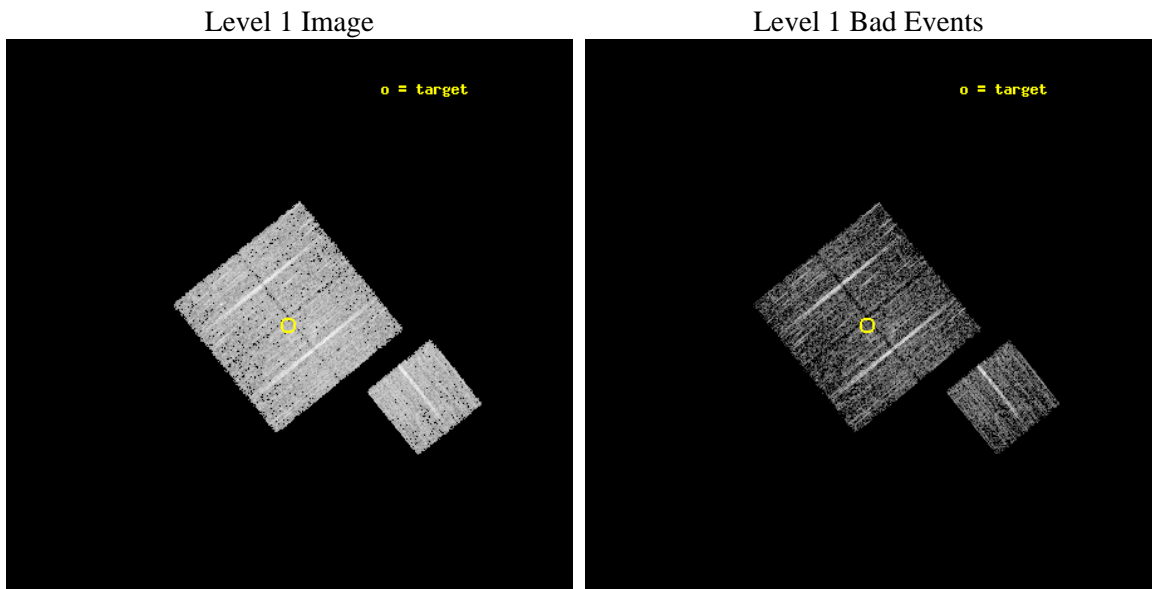
seq_num	900251	Sequence number
obs_id	3651	Observation id
title	CHANDRA LARGE SCALE SURVEY OF THE NOAO BOOTES DEEP FIELD	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	NOAO FIELD F32	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.744263	Observer's specified target RA [deg]
dec_targ	34.475388	Observer's specified target Dec [deg]
ra_nom	216.74160556184	Nominal RA [deg]
dec_nom	34.479400261177	Nominal Dec [deg]
roll_nom	141.01020165732	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4776.4740093946	Sum of GTIs [s]
livetime	4714.0658600729	Livetime [s]
ontime0	4776.3508893847	Sum of GTIs [s]
ontime1	4776.391929388	Sum of GTIs [s]
ontime2	4776.4329693913	Sum of GTIs [s]
ontime3	4776.4740093946	Sum of GTIs [s]
ontime6	4773.1688691676	Sum of GTIs [s]
l2events	9354	Number of level 2 events



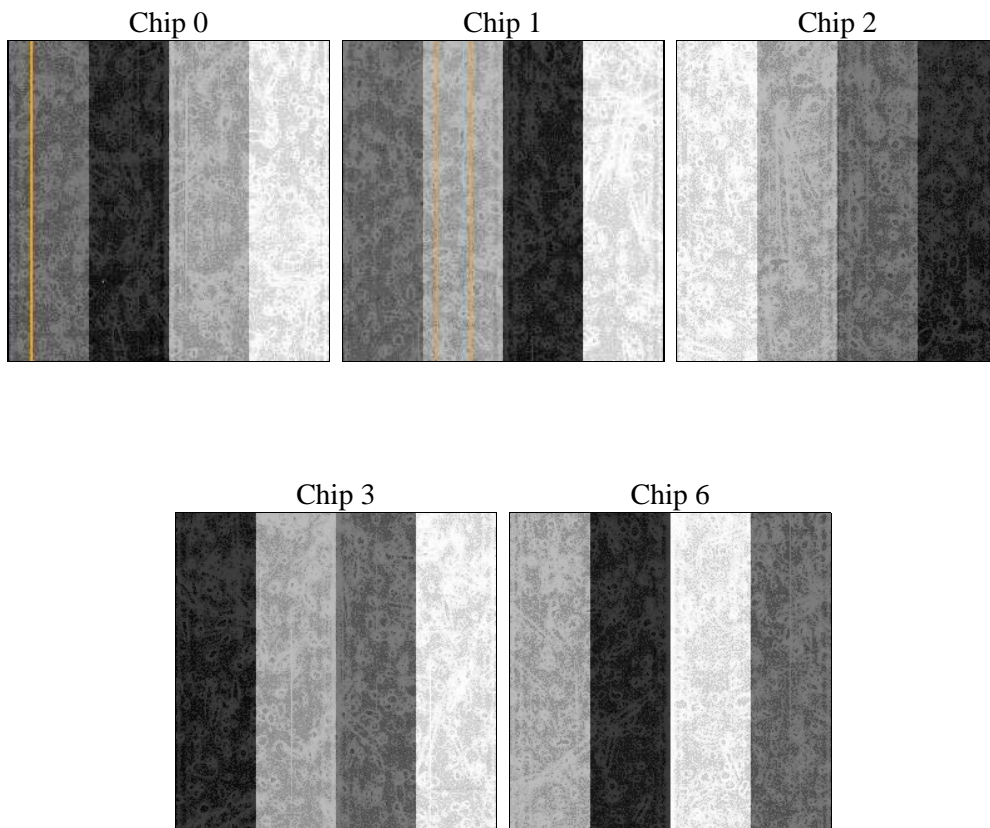
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4776.4740093946	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4776.3508893847	Sum of GTIs [s]
date	2012-10-24T21:07:49	Date and time of file creation	ontime1	4776.391929388	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4776.4329693913	Sum of GTIs [s]
			ontime3	4776.4740093946	Sum of GTIs [s]
			ontime6	4773.1688691676	Sum of GTIs [s]
			l1events	119817	Number of level 1 events

### 2.1.4 Events

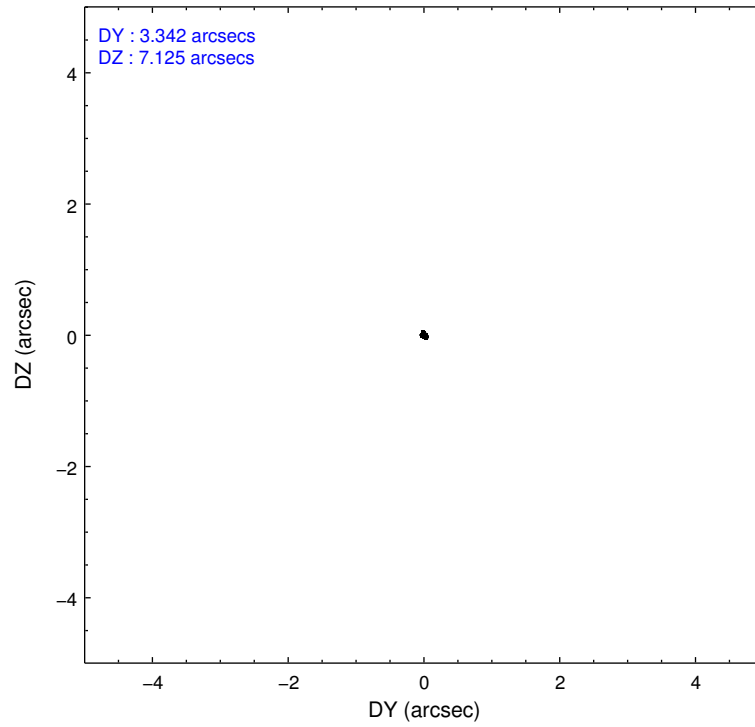
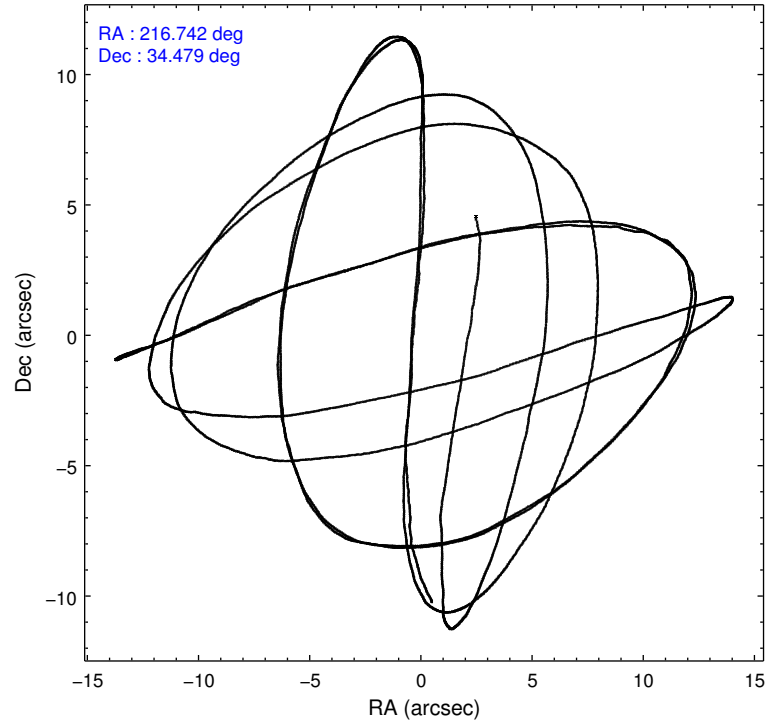
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	22122	23558	25100	24028	25009
rejected events	19887	21115	22852	21843	22629
rejected %	89%	89%	91%	90%	90%

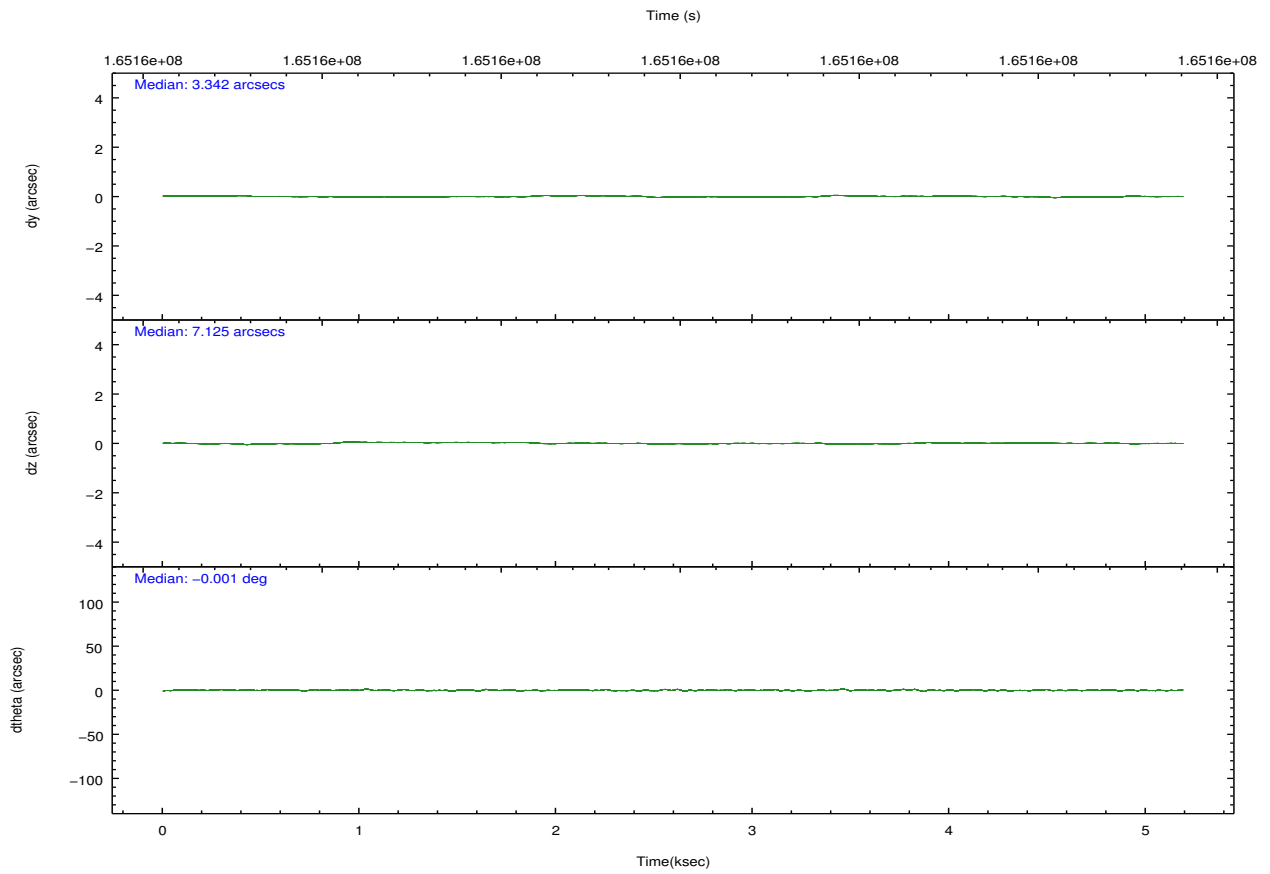
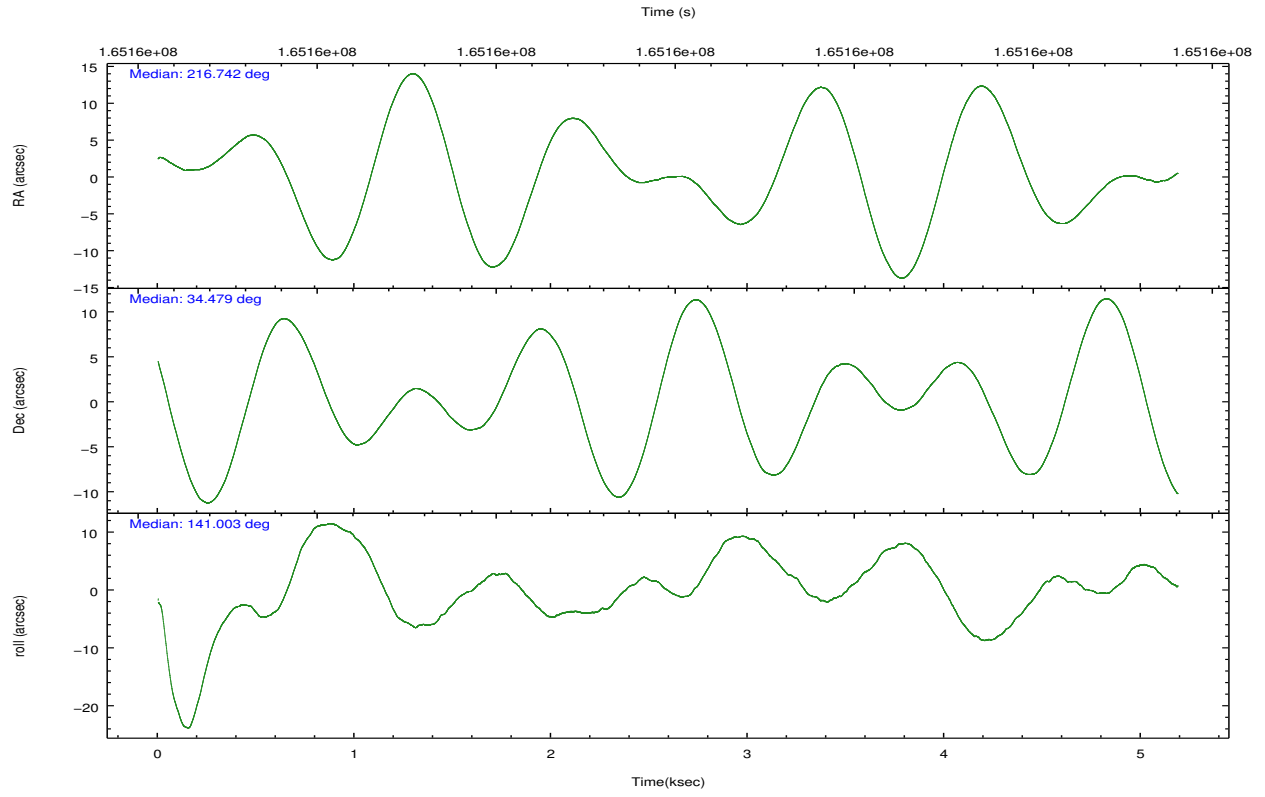
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	860	820	845	808	927
	3%	3%	3%	3%	3%
grade 1 events	3	8	12	15	13
	0%	0%	0%	0%	0%
grade 2 events	522	542	519	464	492
	2%	2%	2%	1%	1%
grade 3 events	249	320	255	274	229
	1%	1%	1%	1%	0%
grade 4 events	247	274	267	244	258
	1%	1%	1%	1%	1%
grade 5 events	617	767	694	772	767
	2%	3%	2%	3%	3%
grade 6 events	359	488	362	397	477
	1%	2%	1%	1%	1%
grade 7 events	19265	20339	22146	21054	21846
	87%	86%	88%	87%	87%

## 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	216.774452	216.7416055618393	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.475306	34.47940026117702	Alternating exposures requested	N	N
[deg] Pointing Roll	140.782909	141.0102016573185	[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)	165158559.184000	165158183.34014			
Observation start date	2003-03-27T13:21:35	2003-03-27T13:16:23			
[s] Observation end time (MET)	165163559.184000	165163693.74038			
Observation end date	2003-03-27T14:44:55	2003-03-27T14:48:13			
Read mode	TIMED	TIMED			

## 2.3 Aspect



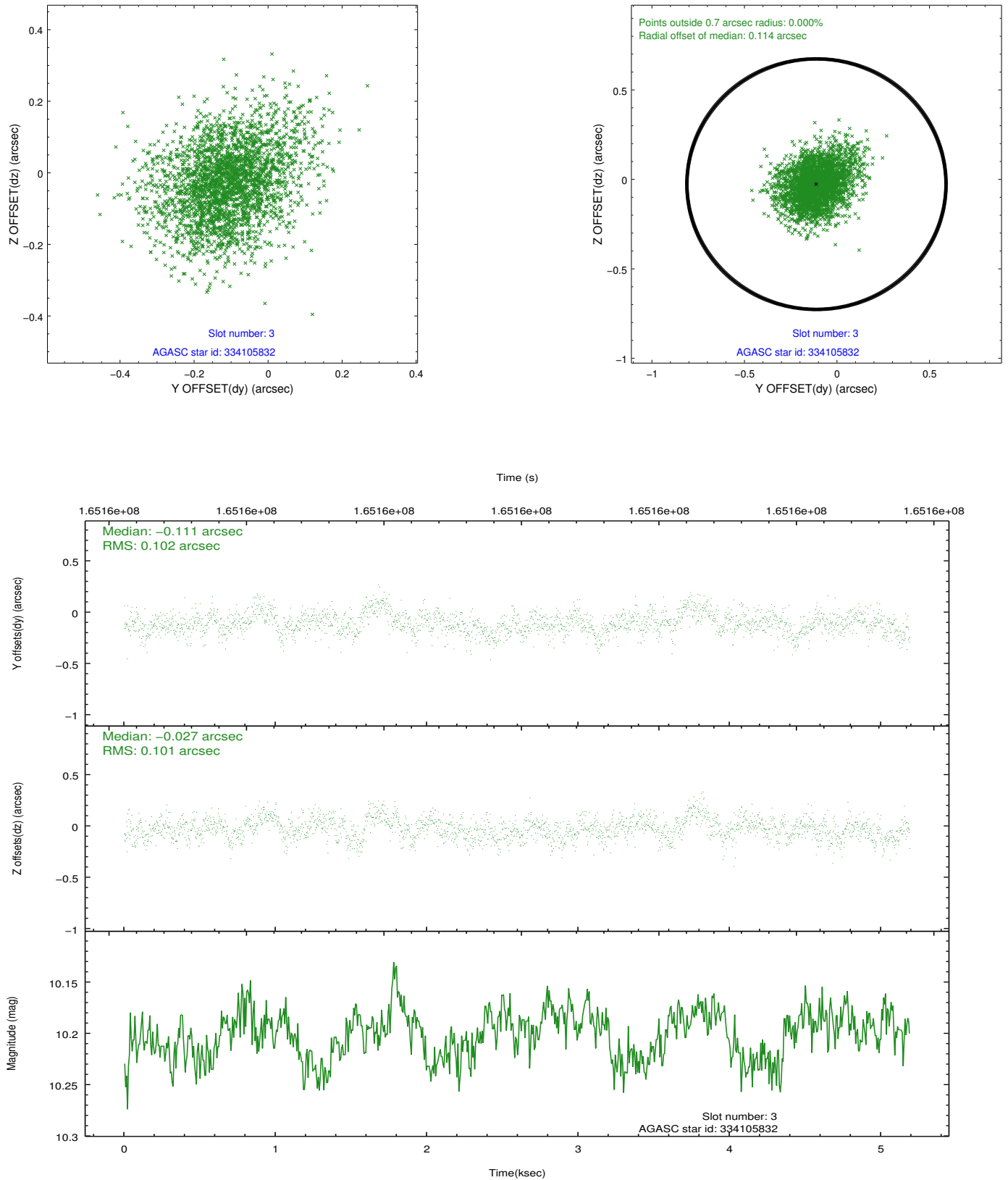


### Slot Statistics

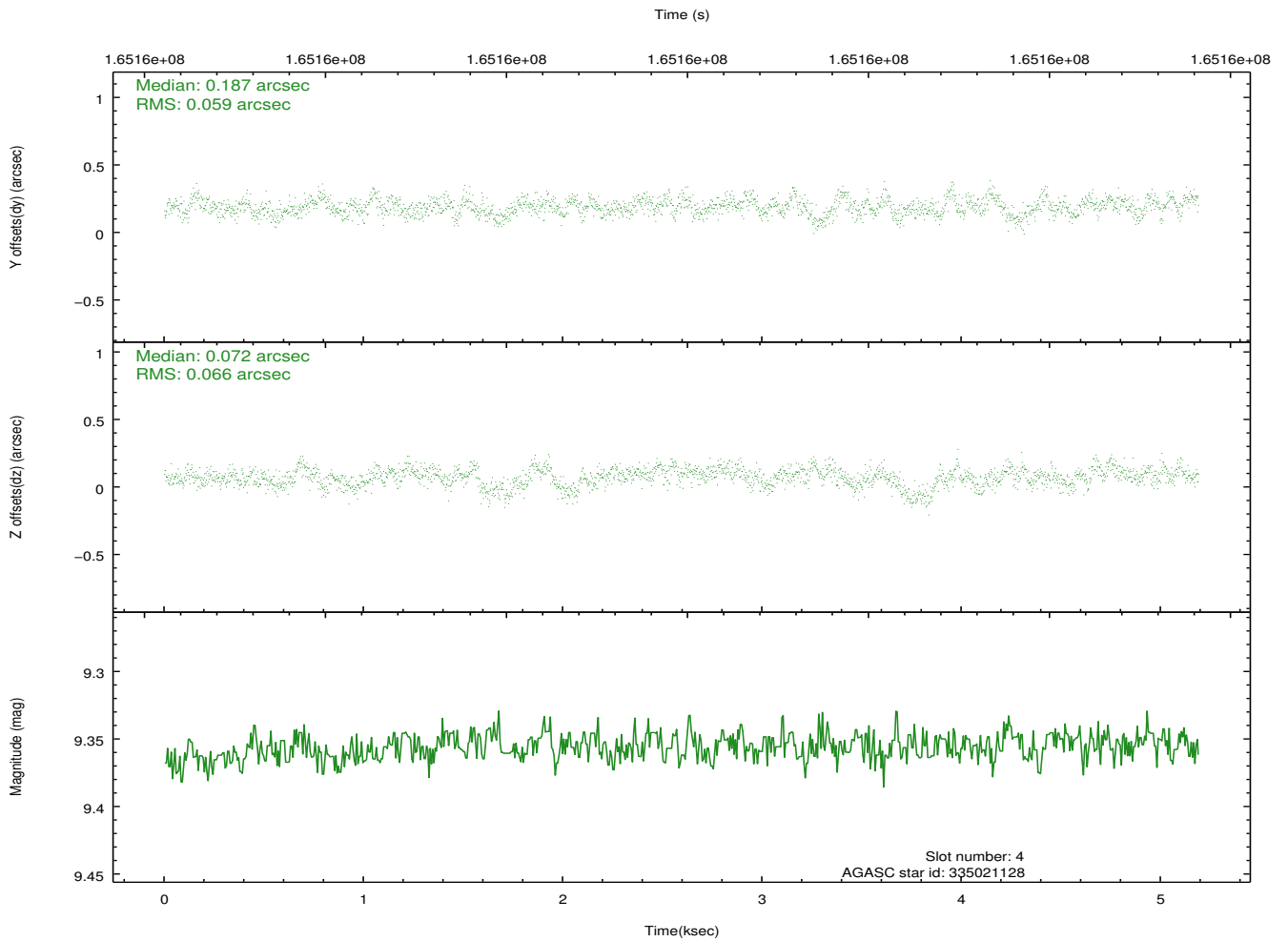
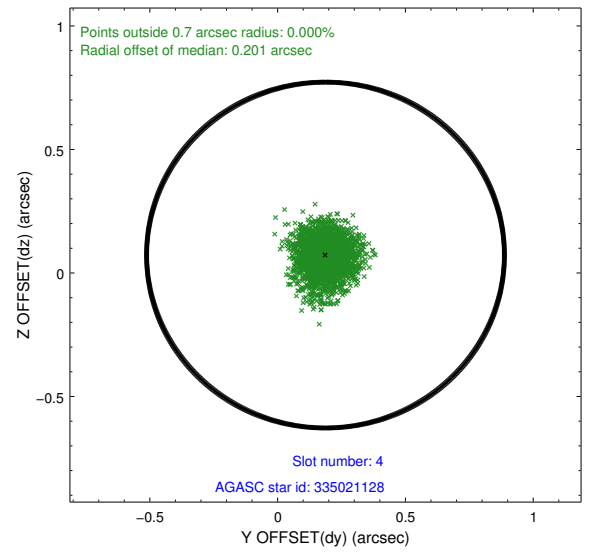
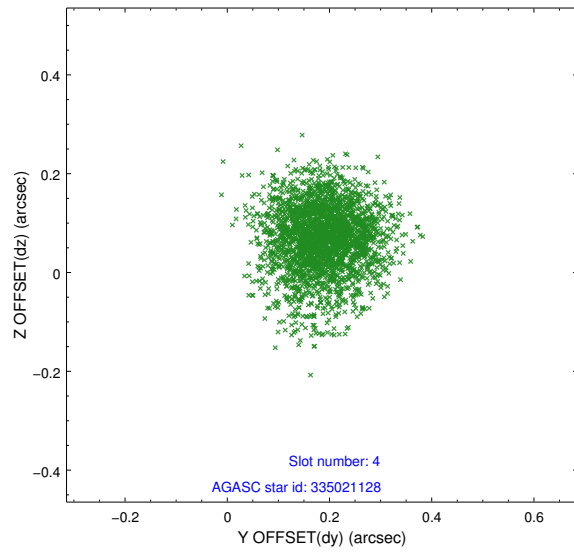
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1266	0.020	0.012	0.006	0.011	0.000000	0.000000	936.44	-830.53
1	FID	ACIS-I-5	7.24	1266	-0.092	0.063	0.005	0.010	0.000000	0.000000	-1811.09	1066.48
2	FID	ACIS-I-6	7.26	1266	-0.020	-0.004	0.007	0.011	0.000000	0.000000	400.73	1712.20
3	GUIDE	334105832	10.20	2531	-0.111	-0.027	0.151	0.257	215.847735	34.556918	2322.51	1499.88
4	GUIDE	335021128	9.36	2531	0.187	0.072	0.093	0.158	216.159551	34.422539	1299.46	1298.01
5	GUIDE	335024096	10.60	2520	-0.083	-0.051	0.149	0.242	216.160719	34.374830	1188.30	1429.33
6	GUIDE	335028336	9.48	2530	0.008	0.012	0.096	0.151	217.189840	34.665629	-517.07	-1310.14
7	GUIDE	335030384	8.83	2528	-0.001	0.000	0.076	0.129	216.806407	34.722197	489.00	-749.09

## 2.4 Star Slots

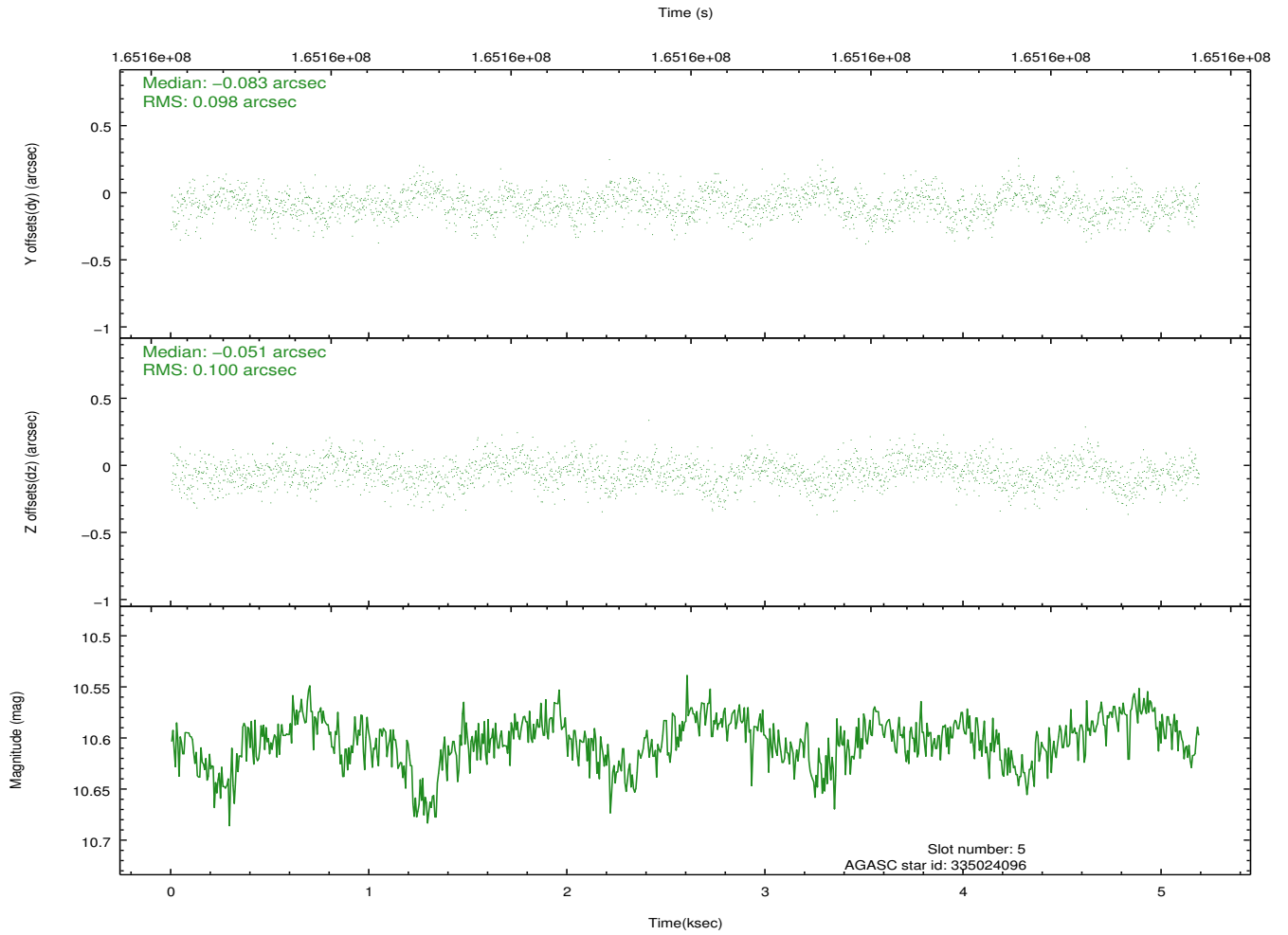
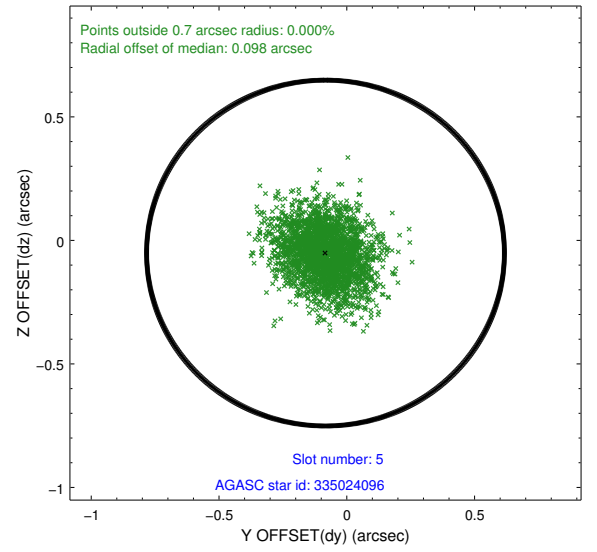
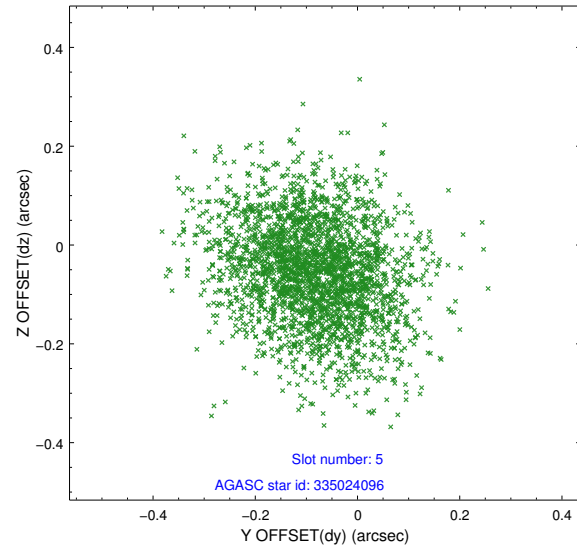
### 2.4.1 Slot 3



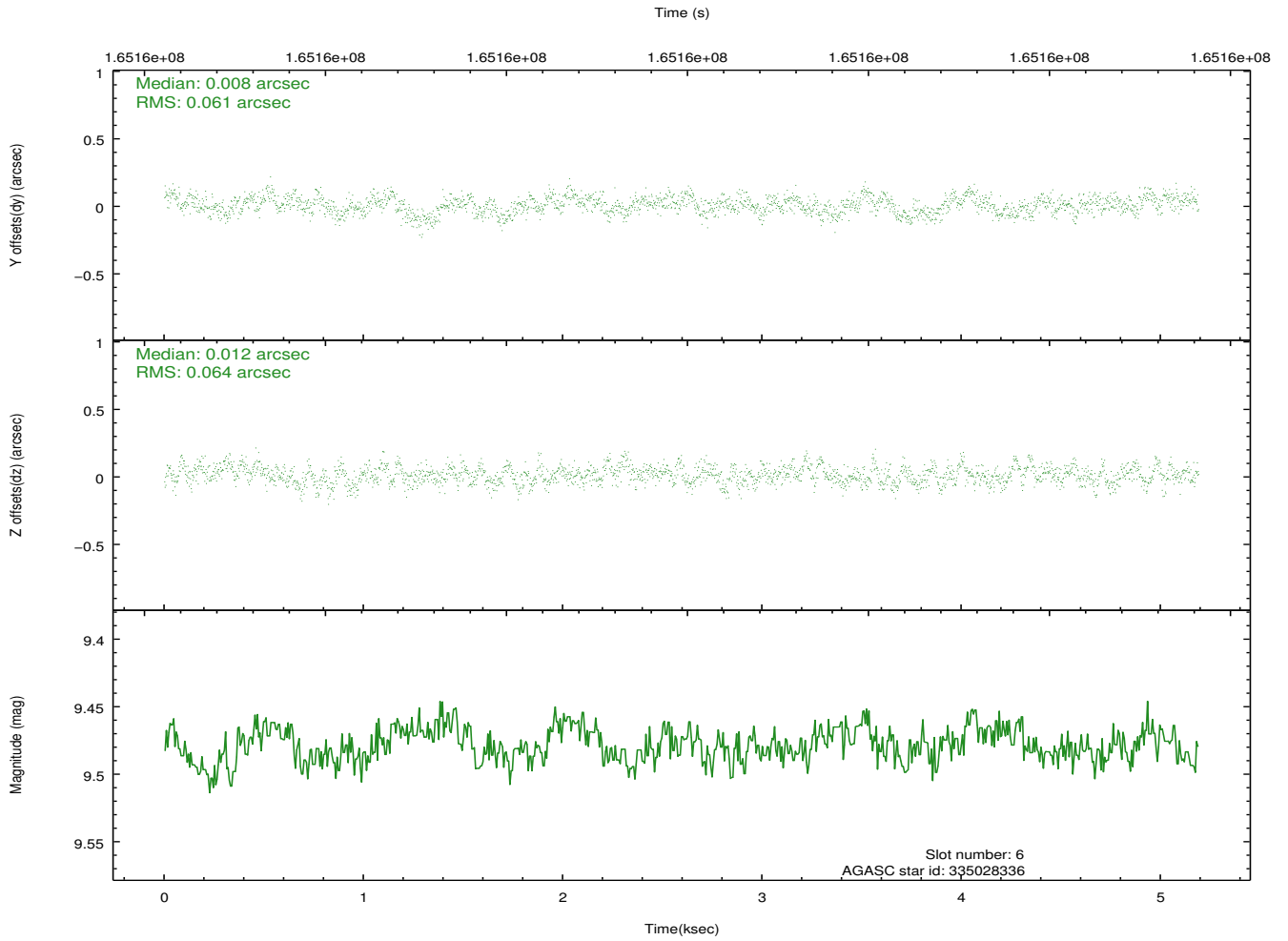
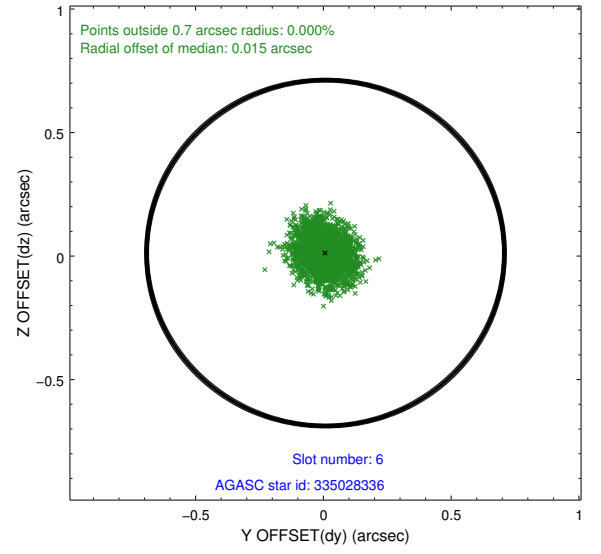
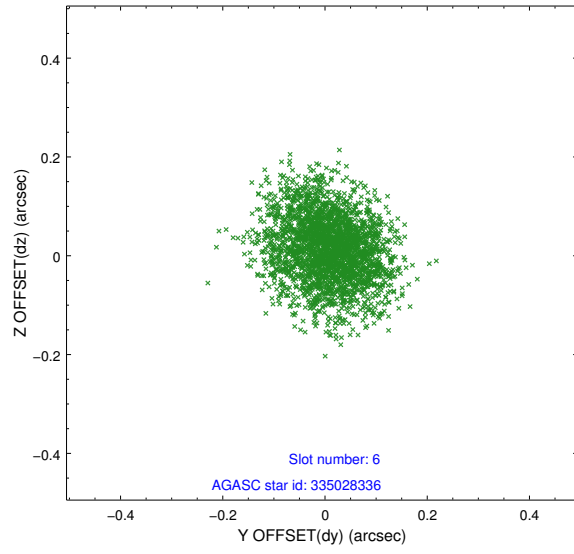
## 2.4.2 Slot 4



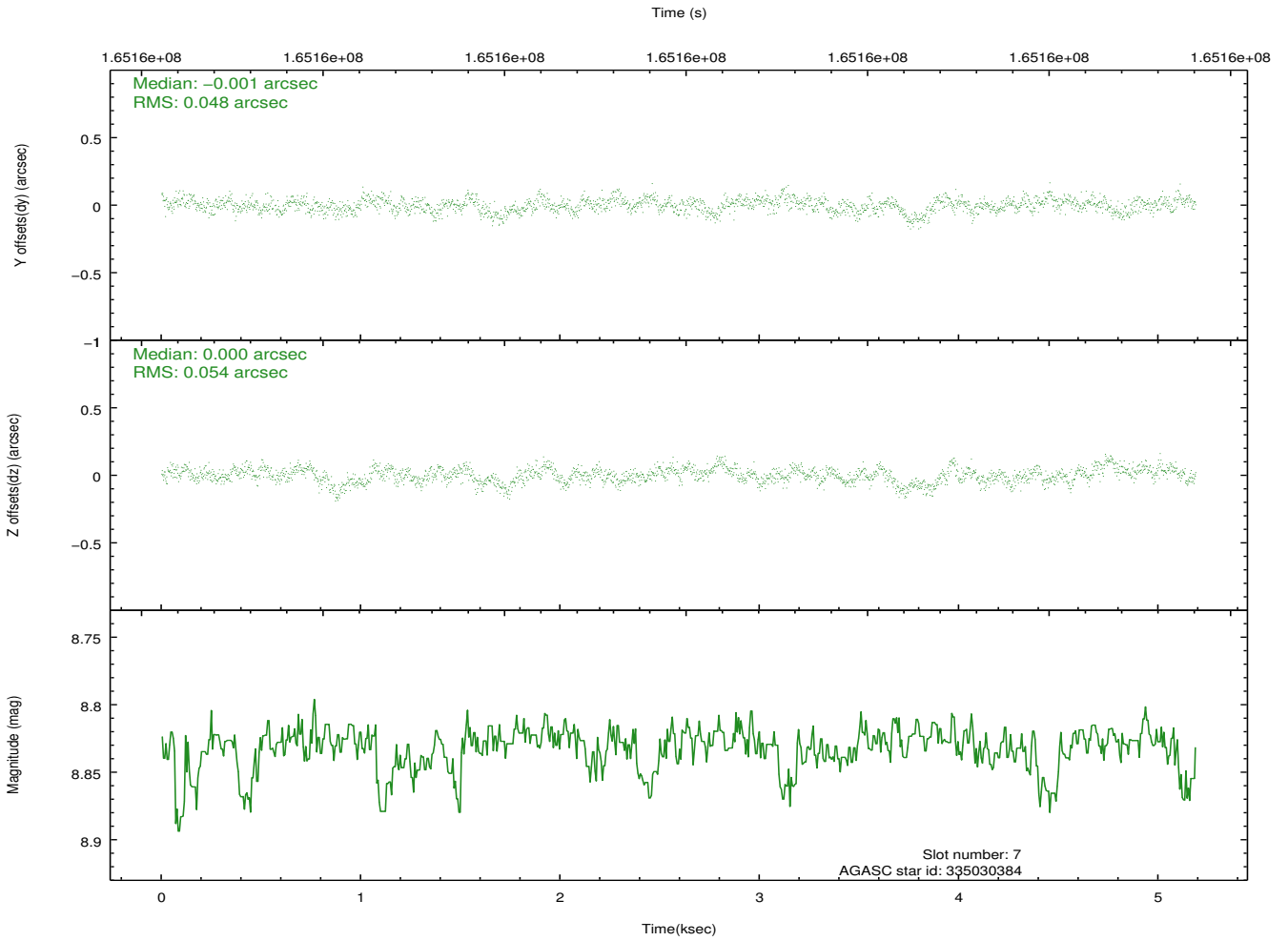
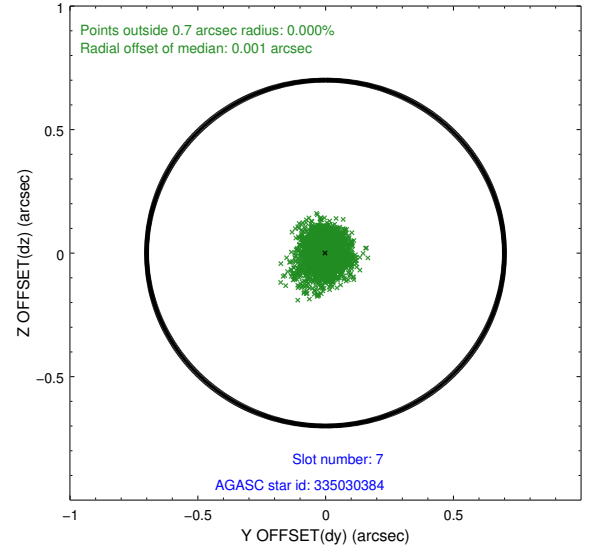
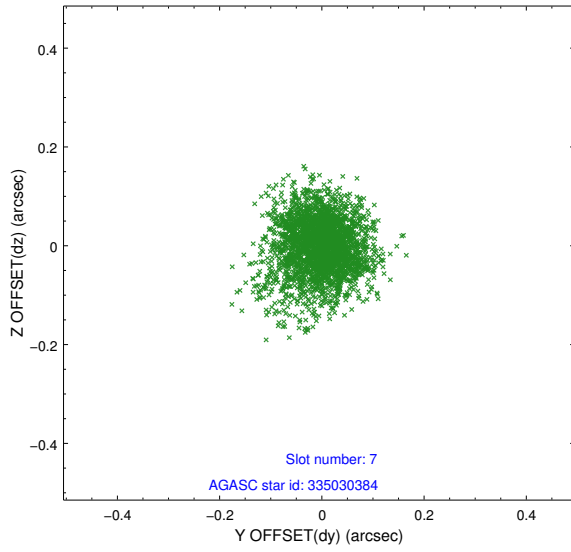
### 2.4.3 Slot 5



## 2.4.4 Slot 6

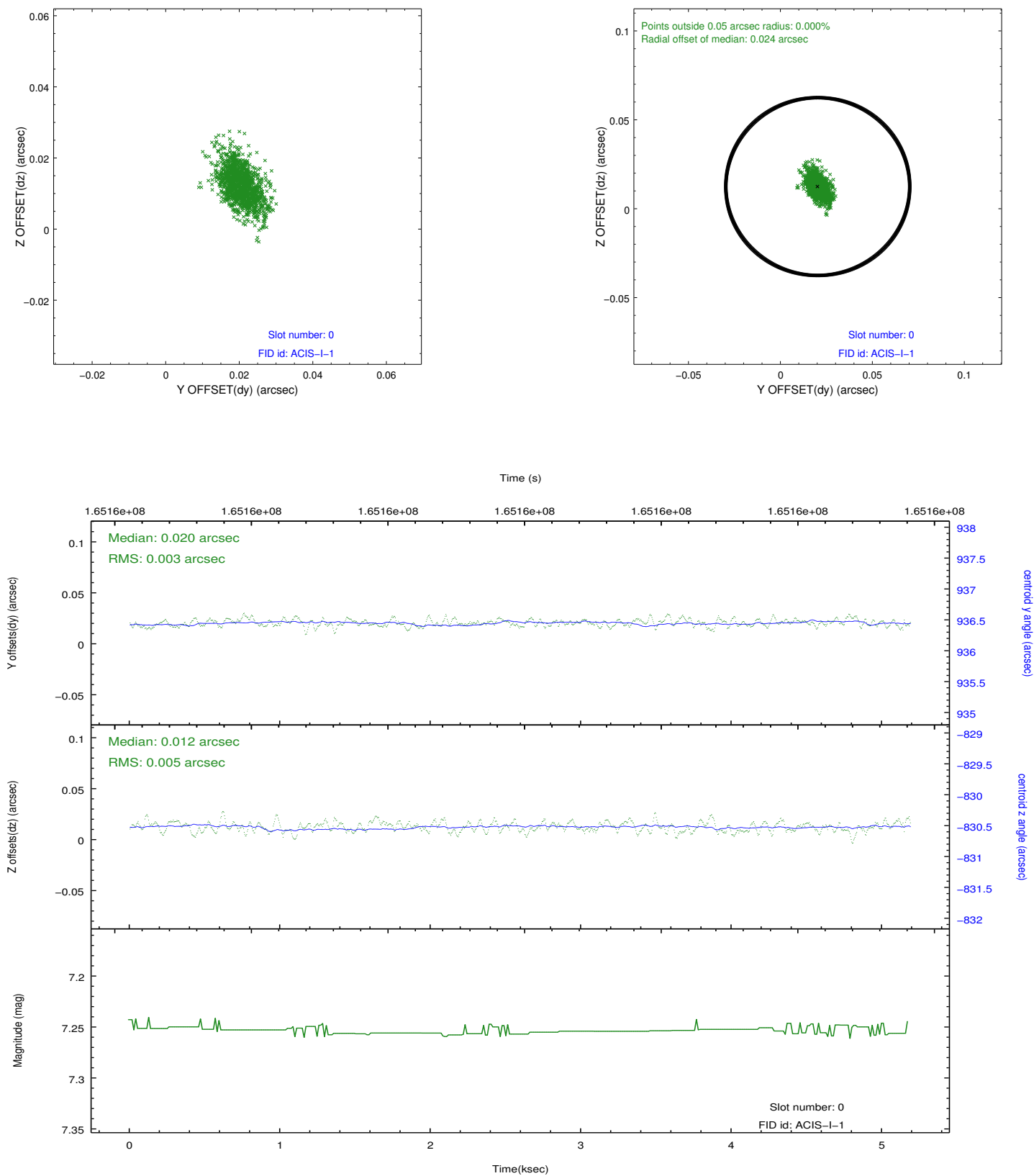


## 2.4.5 Slot 7

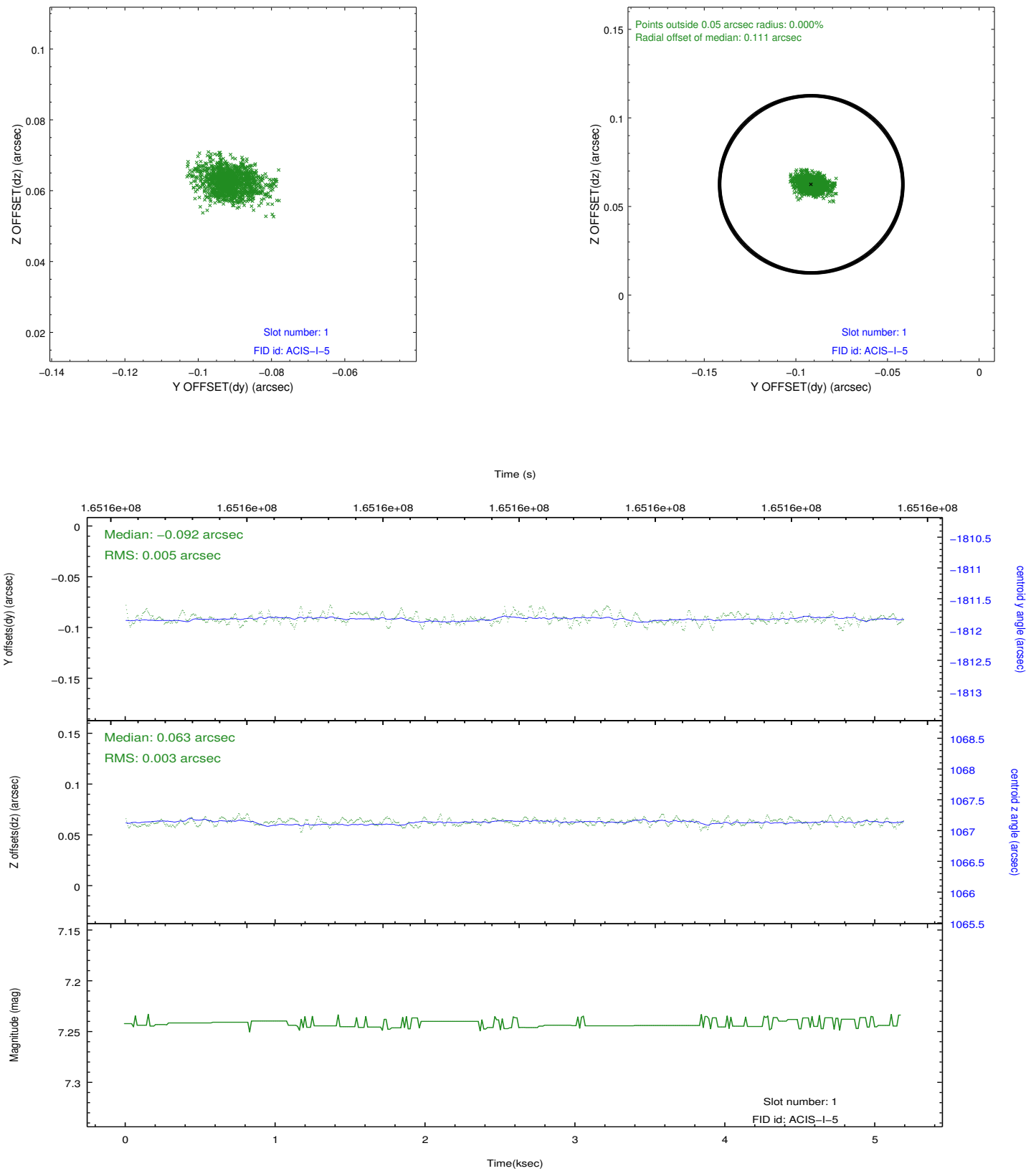


## 2.5 FID Slots

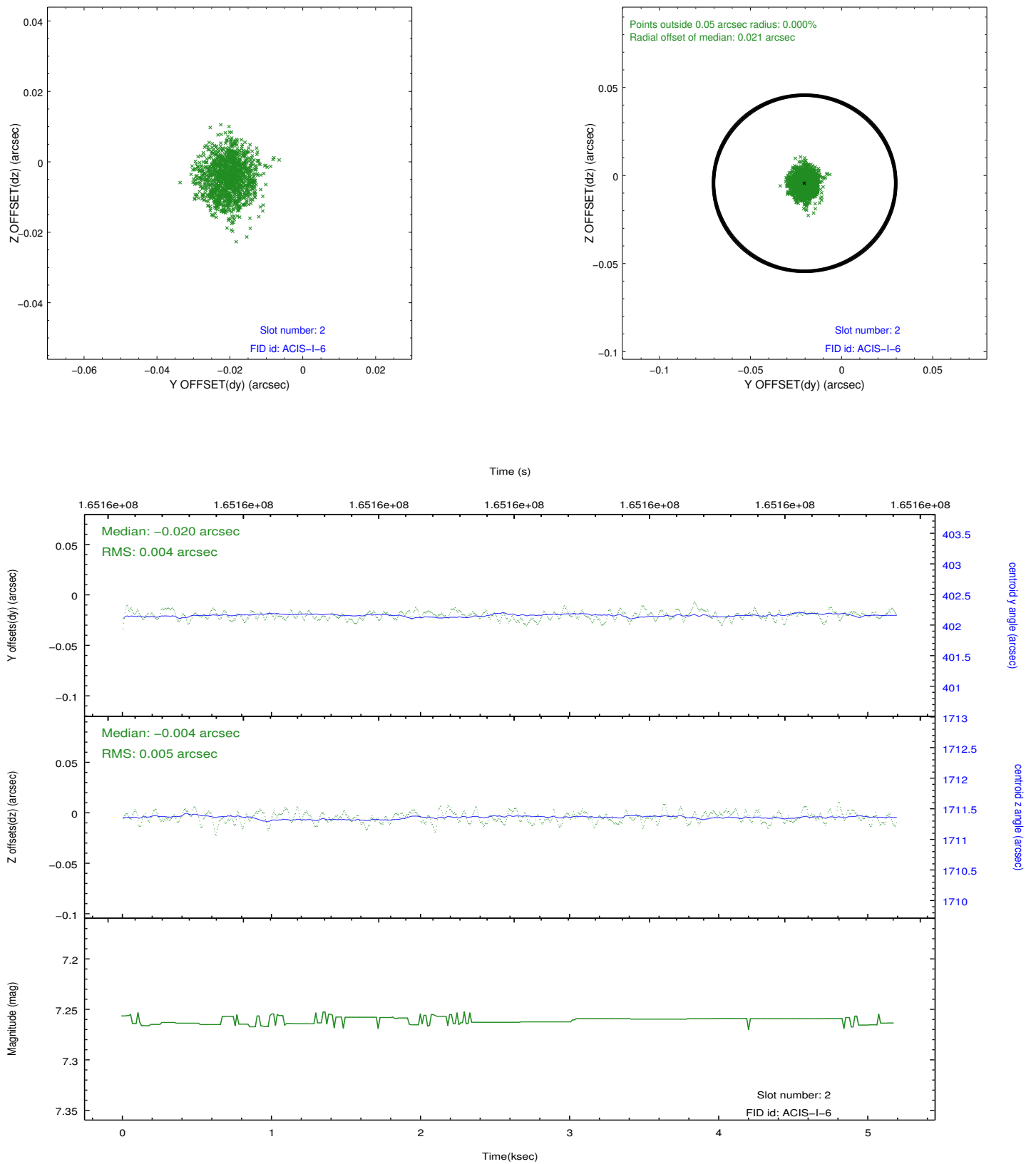
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.11.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.777

### A.2 Comments