

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3634 - L2 Version 3  
Chandra X-Ray Center

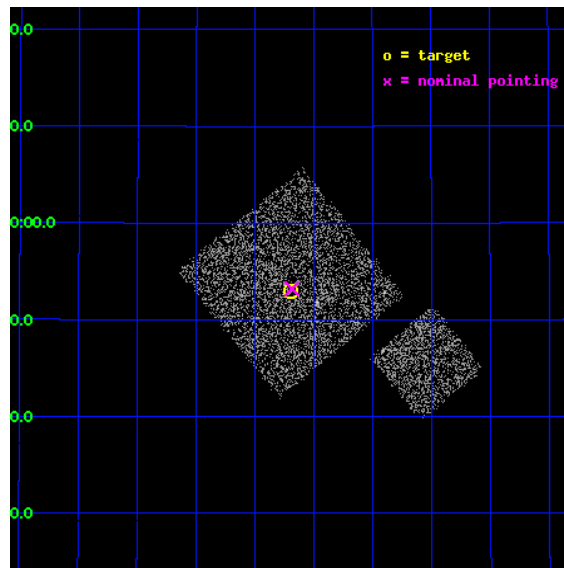
L2 Processing Date : Oct 25 2012

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# 1 Front

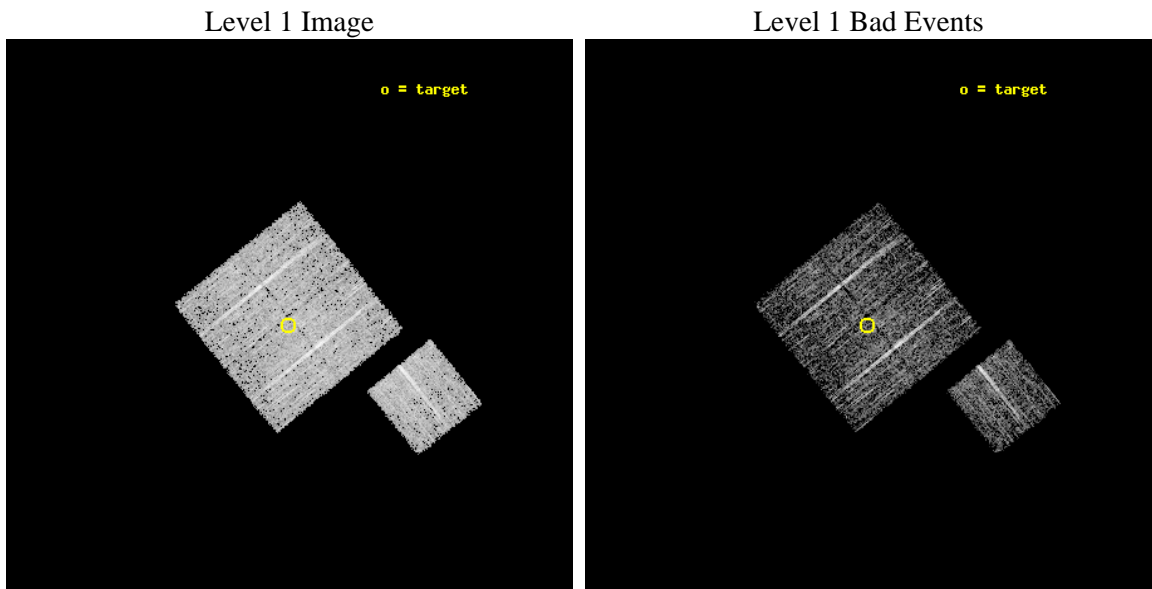
seq_num	900234	Sequence number
obs_id	3634	Observation id
title	CHANDRA LARGE SCALE SURVEY OF THE NOAO BOOTES DEEP FIELD	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	NOAO FIELD F40	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.17418	Observer's specified target RA [deg]
dec_targ	34.882776	Observer's specified target Dec [deg]
ra_nom	217.1715182708	Nominal RA [deg]
dec_nom	34.886849596555	Nominal Dec [deg]
roll_nom	141.01020519182	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4575.0080735087	Sum of GTIs [s]
livetime	4515.2322249564	Livetime [s]
ontime0	4574.8849534988	Sum of GTIs [s]
ontime1	4574.9259935021	Sum of GTIs [s]
ontime2	4574.9670335054	Sum of GTIs [s]
ontime3	4575.0080735087	Sum of GTIs [s]
ontime6	4574.8439134955	Sum of GTIs [s]
l2events	9379	Number of level 2 events



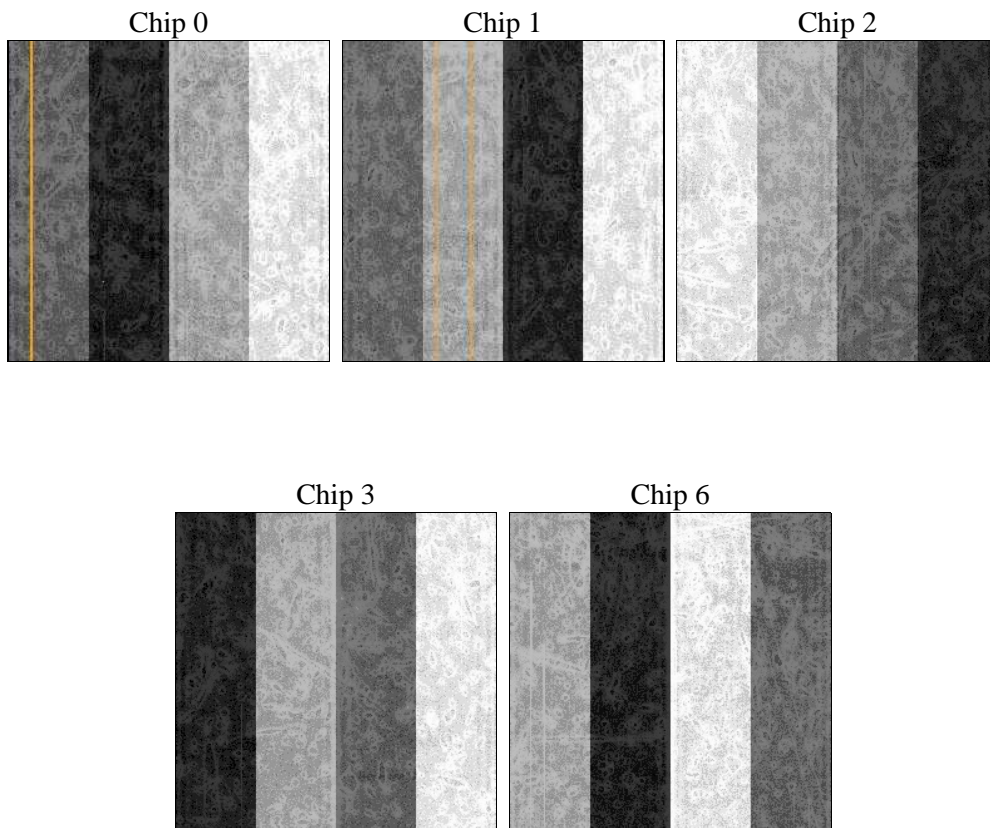
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	4800.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4575.0080735087	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4574.8849534988	Sum of GTIs [s]
date	2012-10-26T00:16:59	Date and time of file creation	ontime1	4574.9259935021	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4574.9670335054	Sum of GTIs [s]
			ontime3	4575.0080735087	Sum of GTIs [s]
			ontime6	4574.8439134955	Sum of GTIs [s]
			l1events	112576	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	21102	21678	23827	22288	23681
rejected events	18908	19213	21473	20224	21344
rejected %	89%	88%	90%	90%	90%

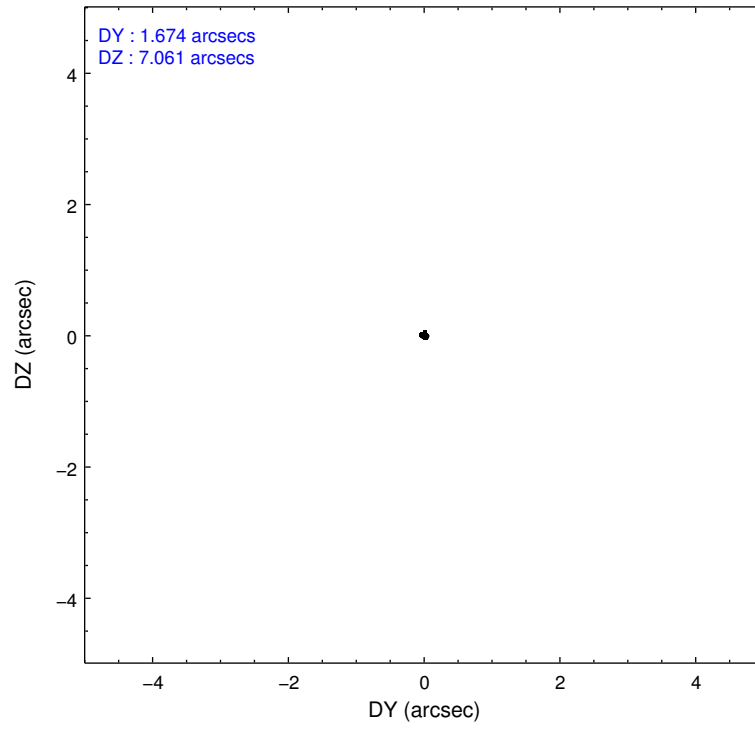
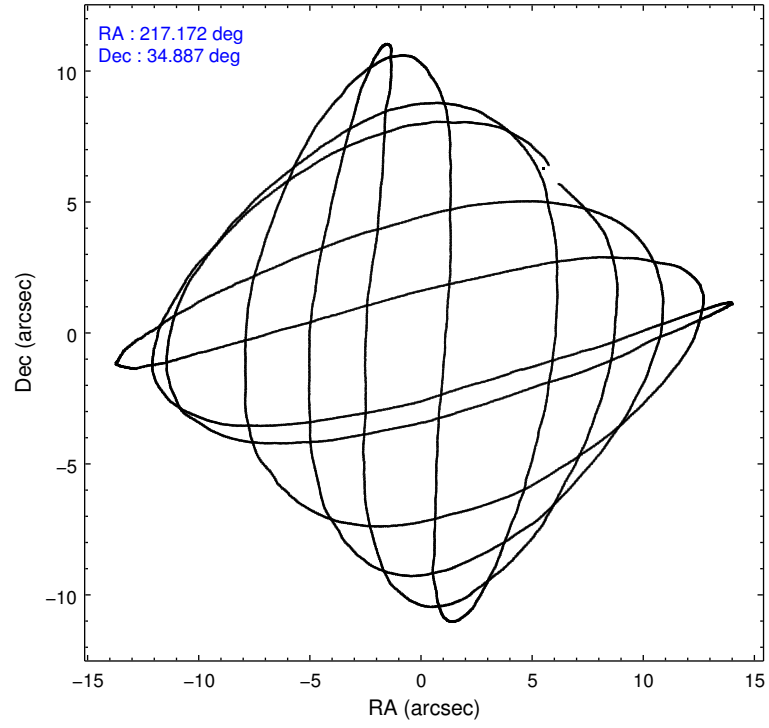
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	788	822	953	810	860
	3%	3%	3%	3%	3%
grade 1 events	14	11	10	7	10
	0%	0%	0%	0%	0%
grade 2 events	517	533	477	416	526
	2%	2%	2%	1%	2%
grade 3 events	274	288	249	253	249
	1%	1%	1%	1%	1%
grade 4 events	238	293	301	220	245
	1%	1%	1%	0%	1%
grade 5 events	705	705	614	737	734
	3%	3%	2%	3%	3%
grade 6 events	381	533	377	368	464
	1%	2%	1%	1%	1%
grade 7 events	18185	18493	20846	19477	20593
	86%	85%	87%	87%	86%

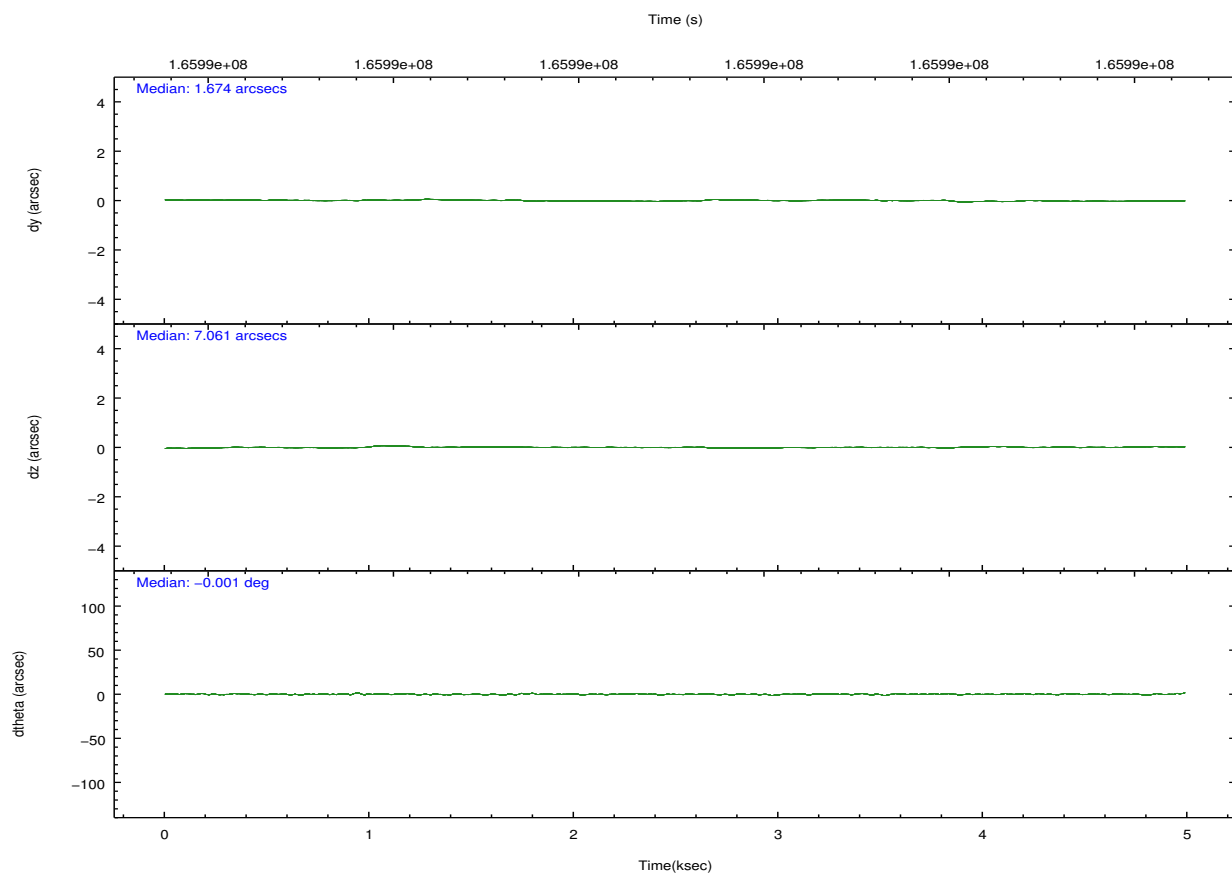
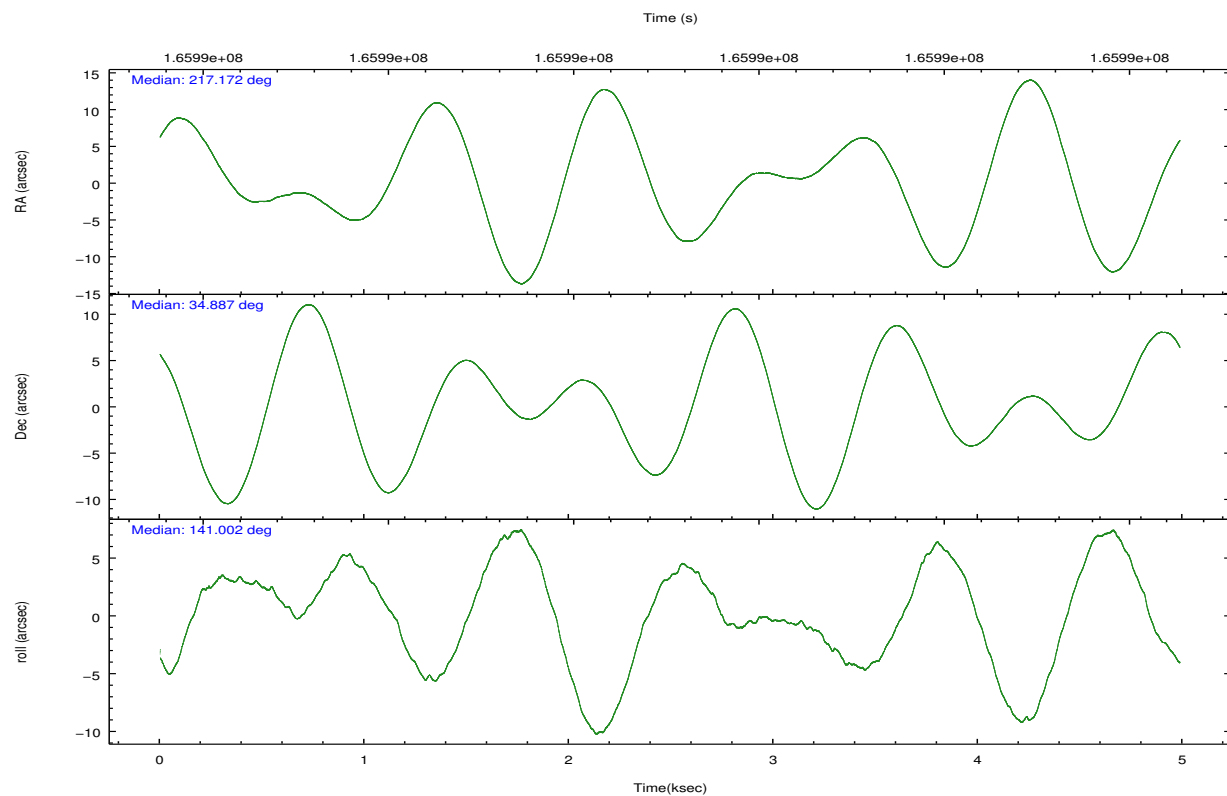


## 2.2 Compared Parameters

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	217.204516	217.1715182707994	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.882693	34.88684959655492	Alternating exposures requested	N	N
[deg] Pointing Roll	140.782652	141.0102051918219	[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)	165989215.184000	165988839.27518			
Observation start date	2003-04-06T04:05:51	2003-04-06T04:00:39			
[s] Observation end time (MET)	165994015.184000	165994149.80041			
Observation end date	2003-04-06T05:25:51	2003-04-06T05:29:09			
Read mode	TIMED	TIMED			

## 2.3 Aspect



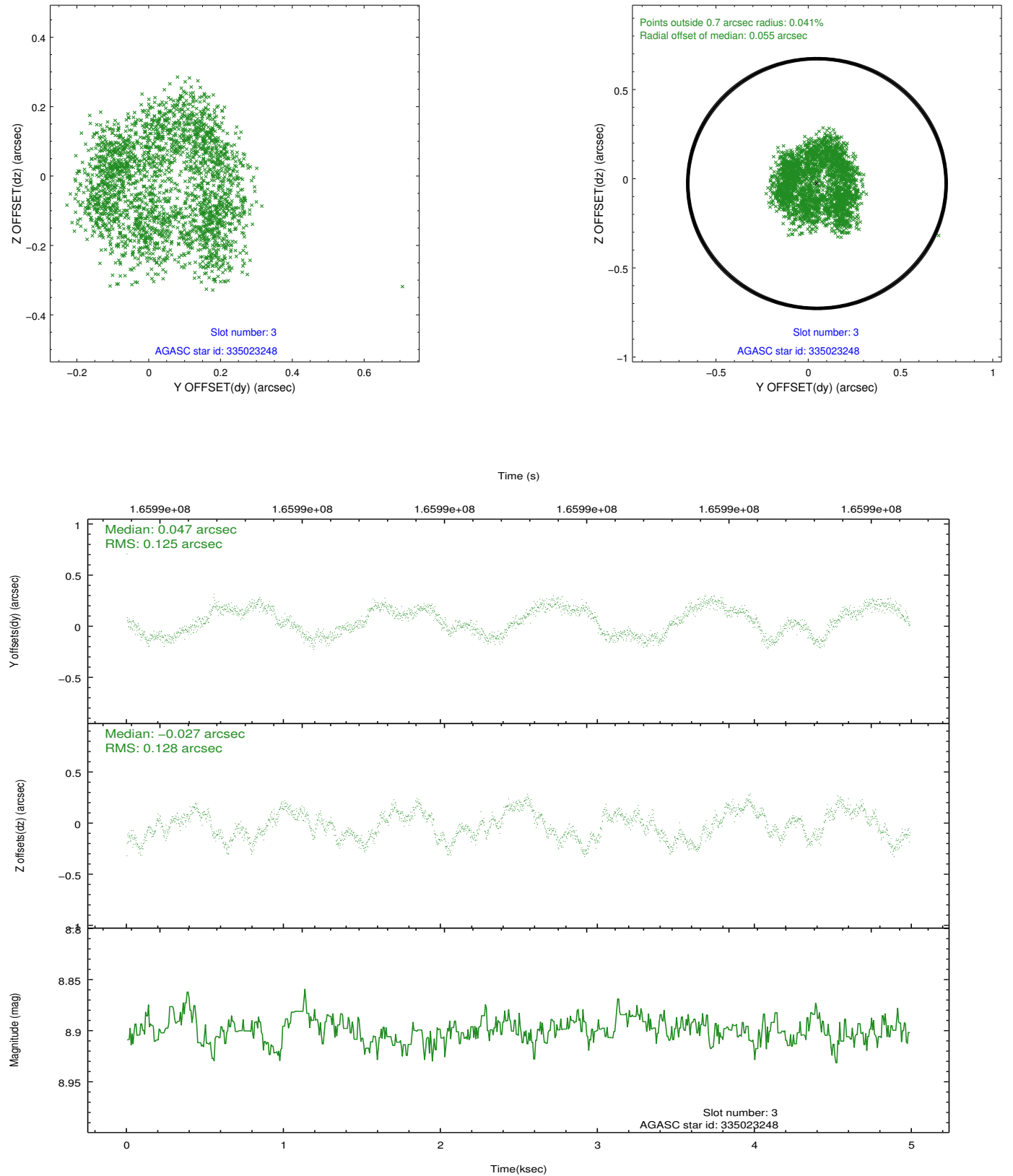


### Slot Statistics

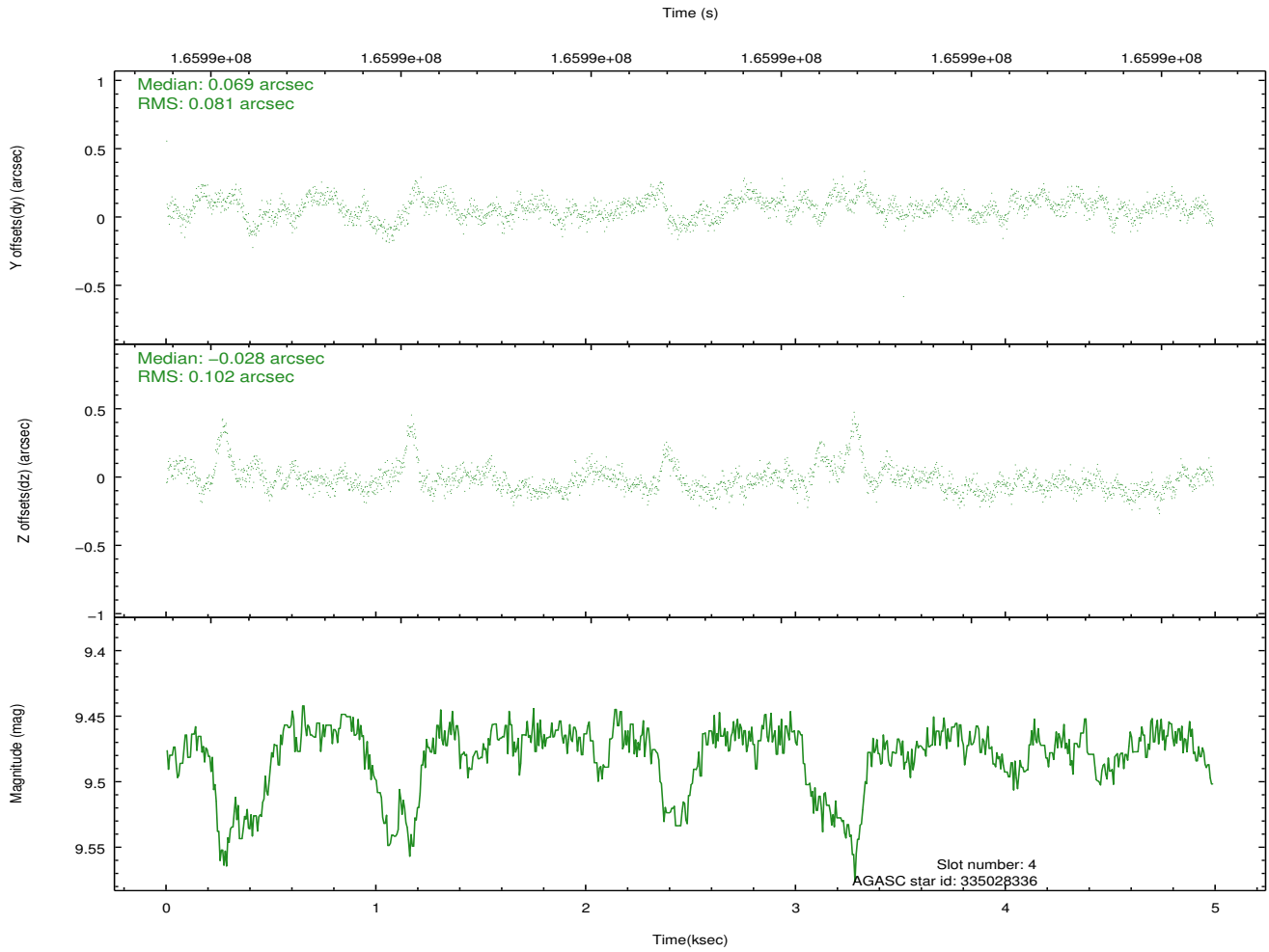
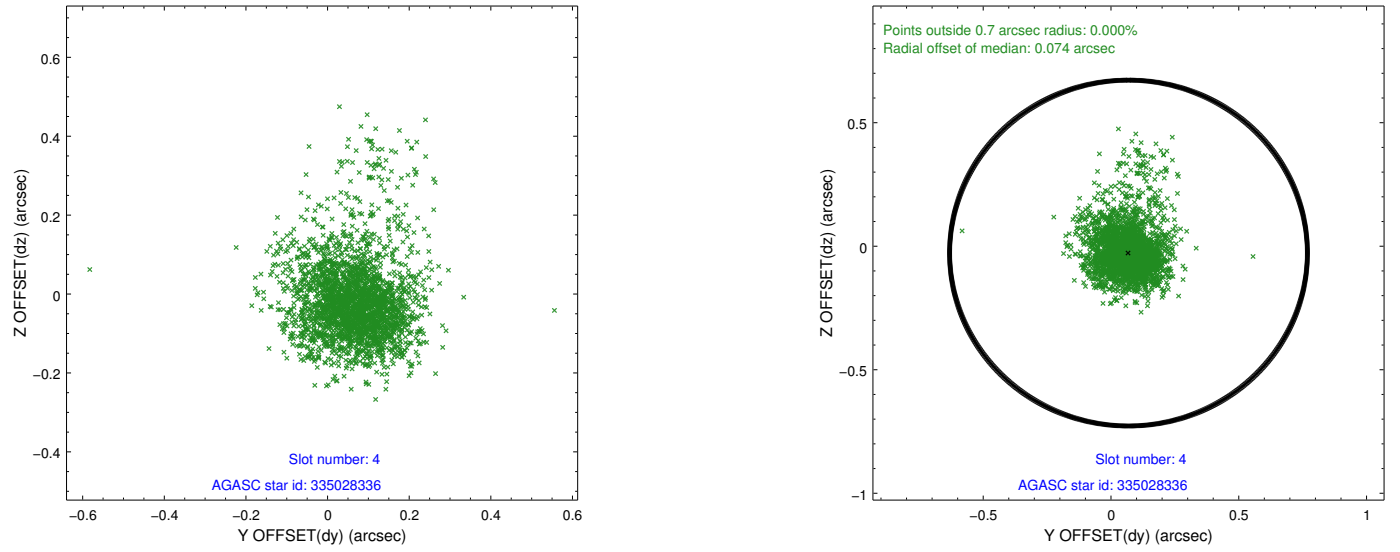
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1217	0.009	0.013	0.006	0.011	0.000000	0.000000	938.14	-830.47
1	FID	ACIS-I-5	7.24	1217	-0.078	0.053	0.006	0.011	0.000000	0.000000	-1809.32	1066.52
2	FID	ACIS-I-6	7.26	1216	-0.022	0.003	0.007	0.012	0.000000	0.000000	402.40	1712.31
3	GUIDE	335023248	8.90	2434	0.047	-0.027	0.195	0.262	217.634832	34.944512	-840.98	-977.42
4	GUIDE	335028336	9.48	2433	0.069	-0.028	0.122	0.239	217.189840	34.665629	-460.57	632.55
5	GUIDE	335030384	8.83	2434	-0.010	-0.016	0.115	0.173	216.806407	34.722197	548.64	1191.09
6	GUIDE	335414448	7.39	2434	-0.116	0.053	0.104	0.166	216.992261	35.577204	2062.97	-1543.60
7	GUIDE	335415168	9.79	2432	0.015	-0.002	0.117	0.193	217.681296	35.301767	-127.56	-2057.41

## 2.4 Star Slots

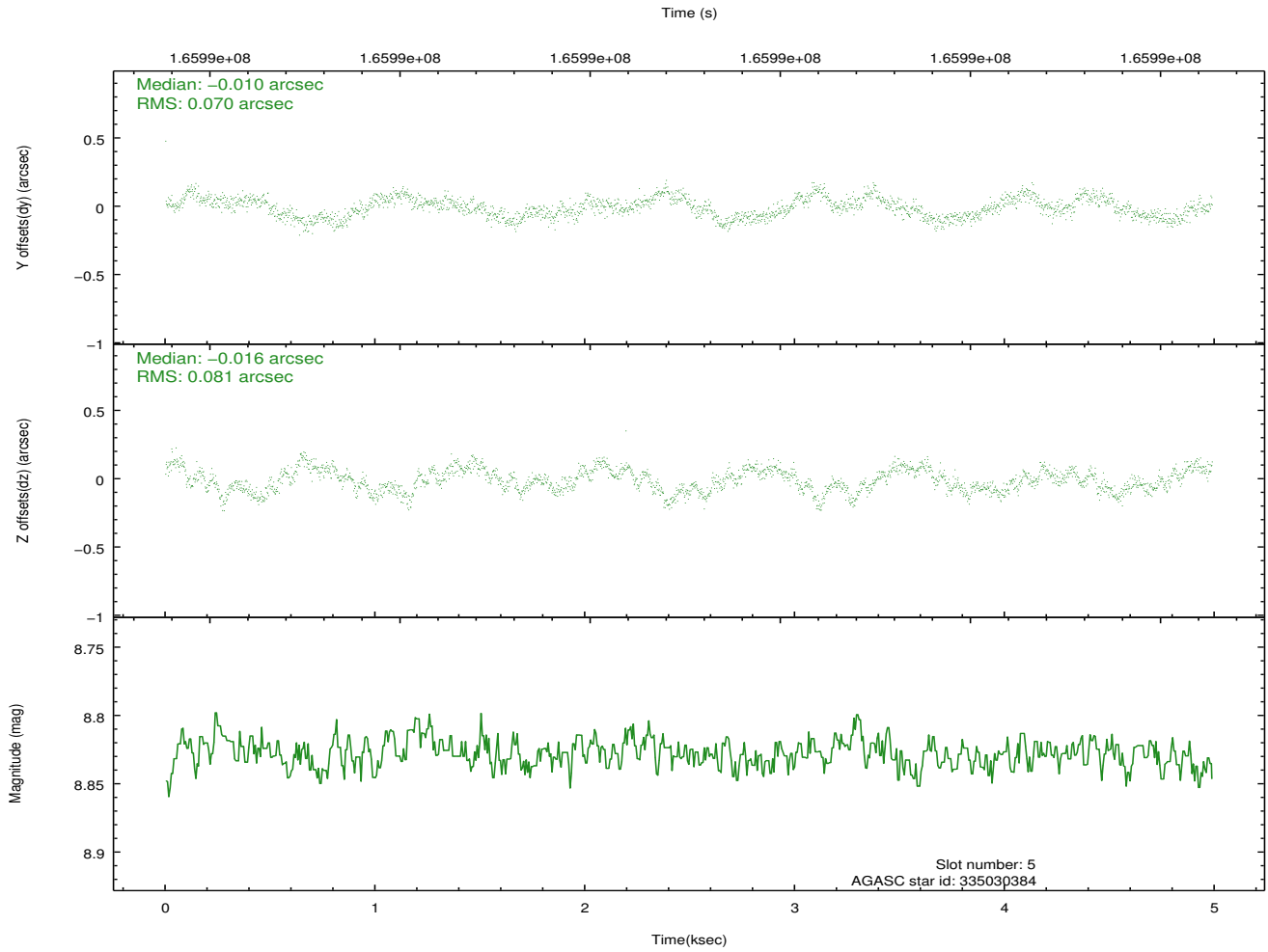
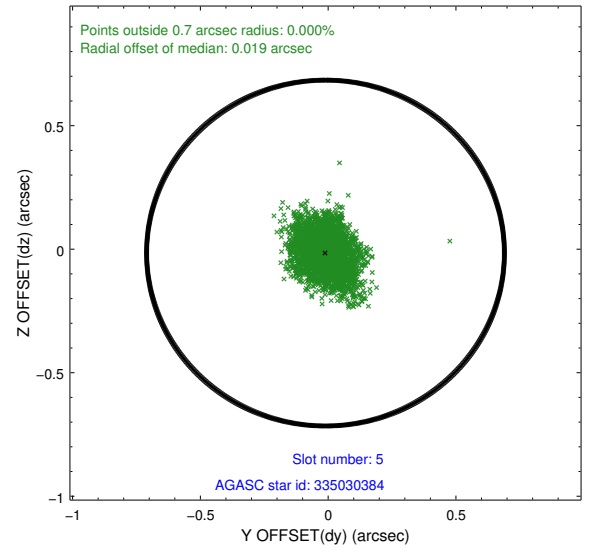
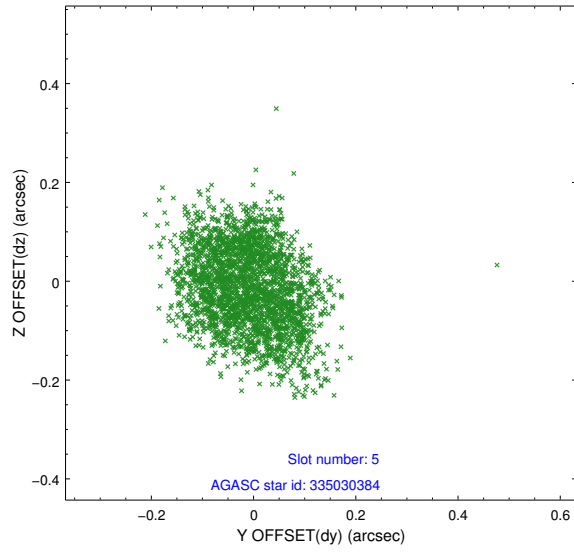
### 2.4.1 Slot 3



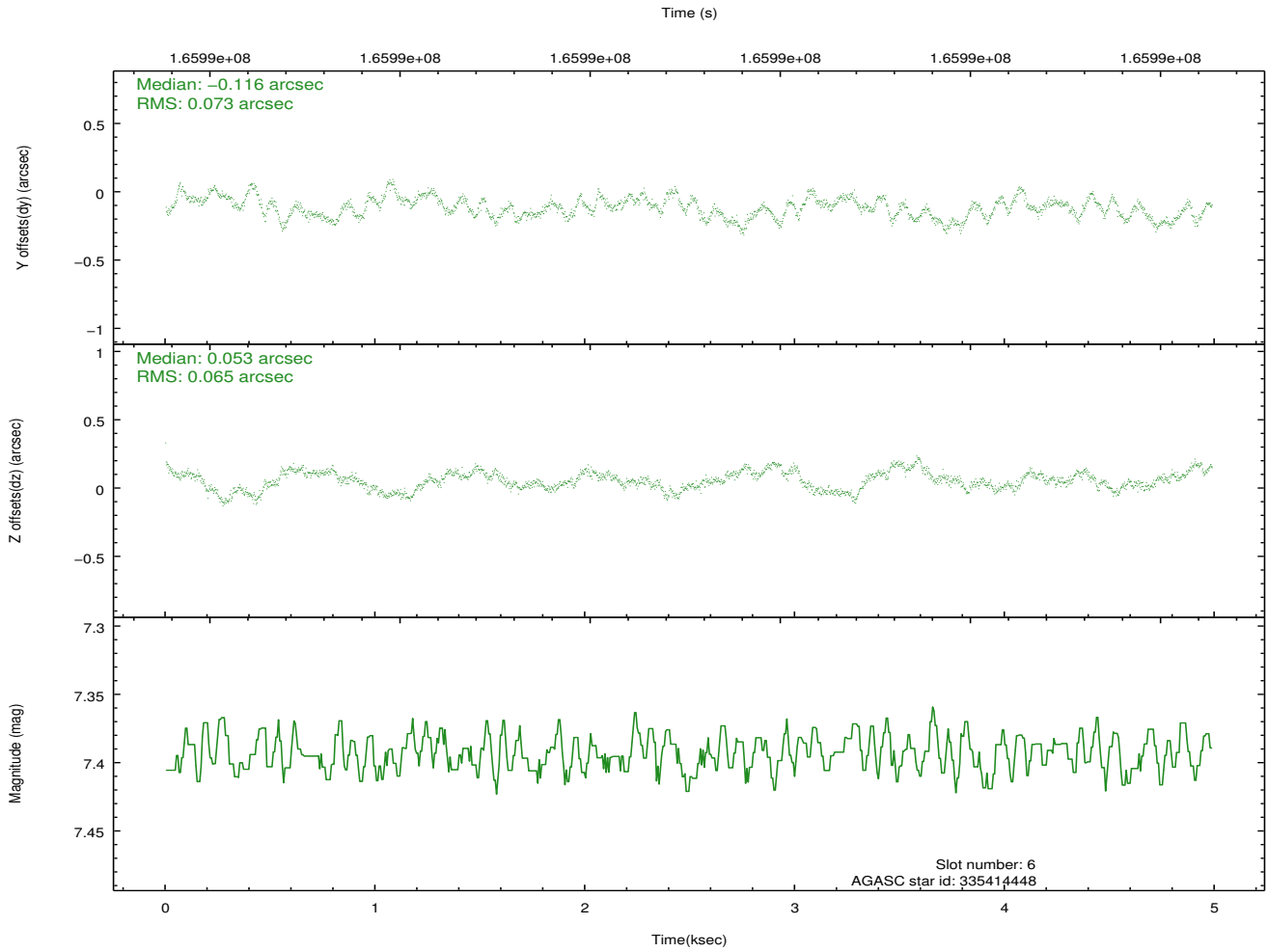
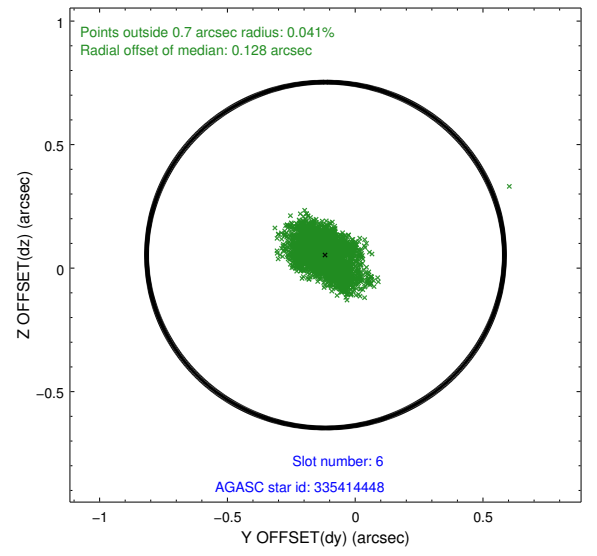
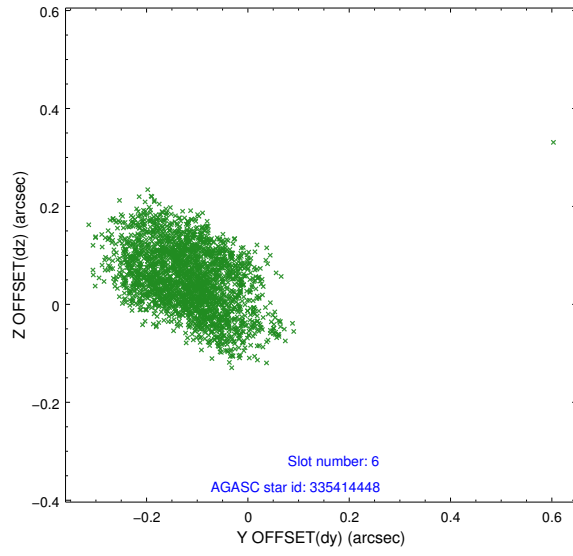
## 2.4.2 Slot 4



### 2.4.3 Slot 5

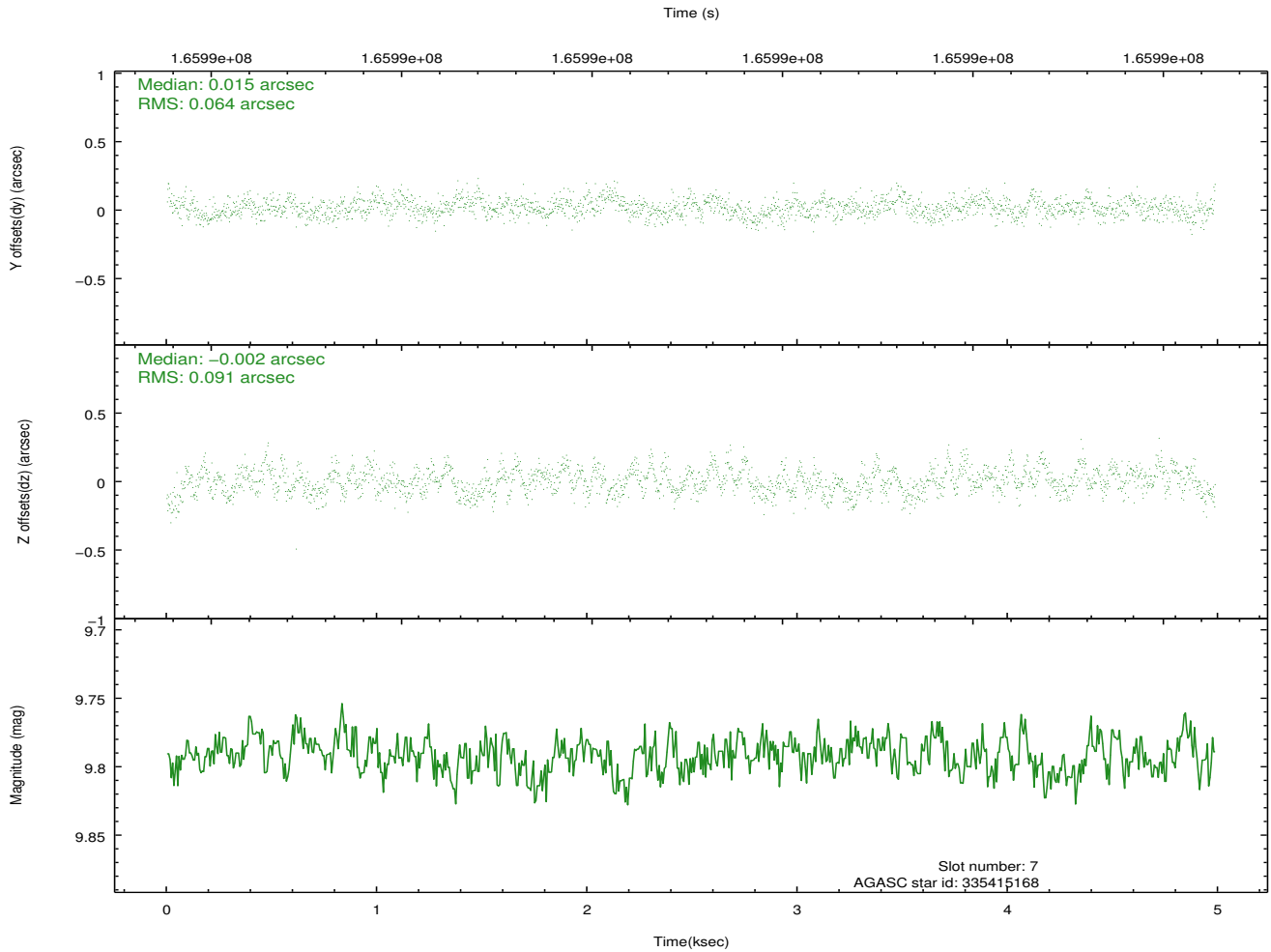
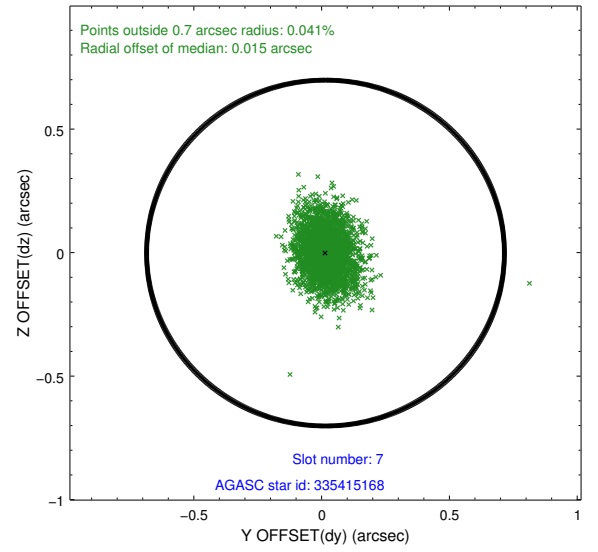
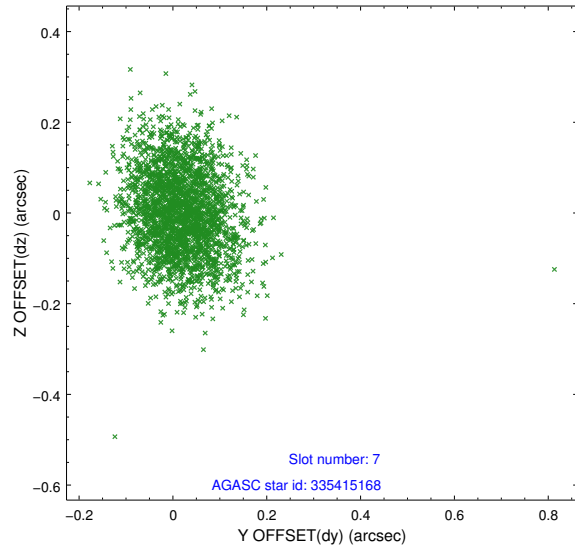


## 2.4.4 Slot 6



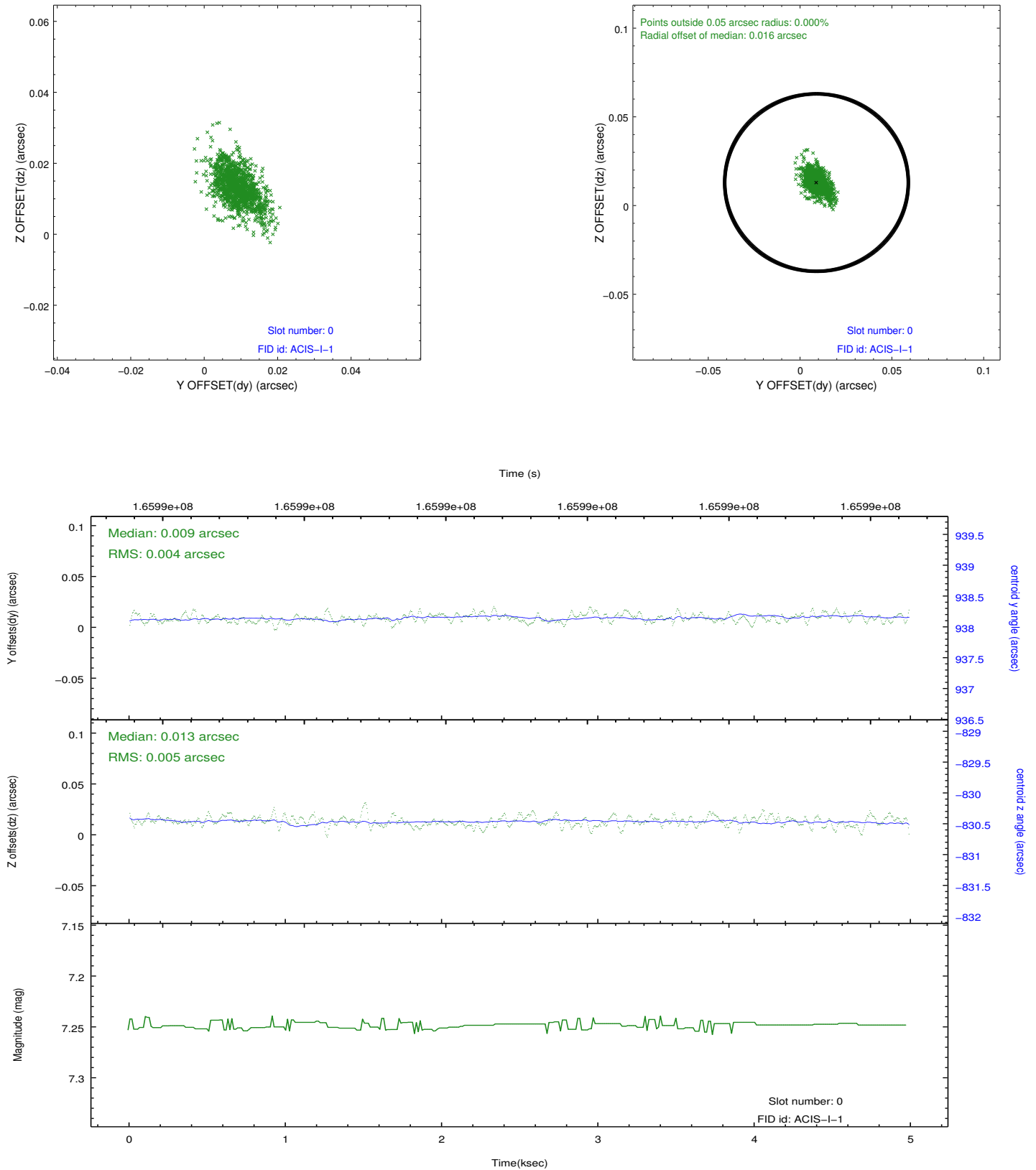


## 2.4.5 Slot 7

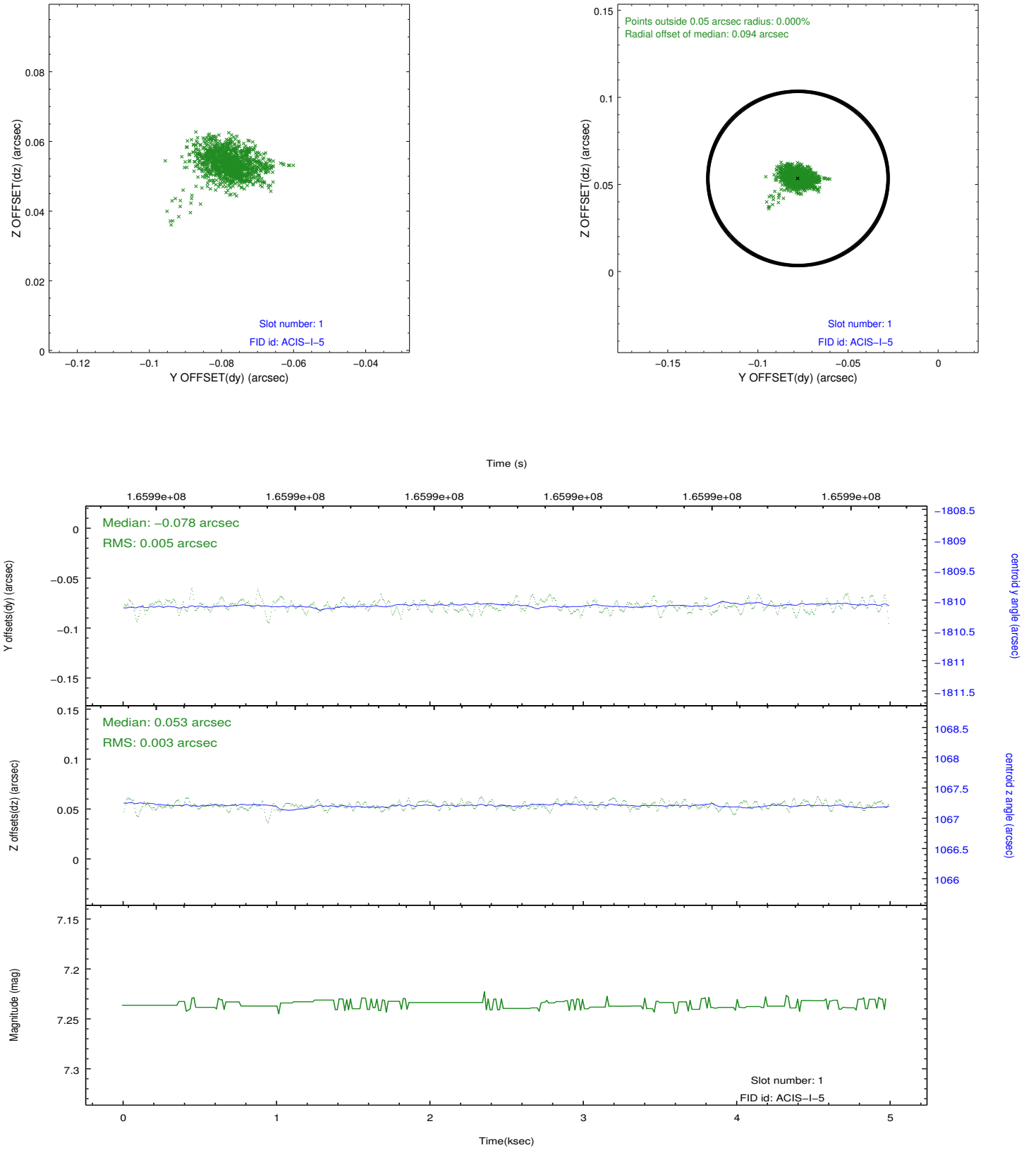


## 2.5 FID Slots

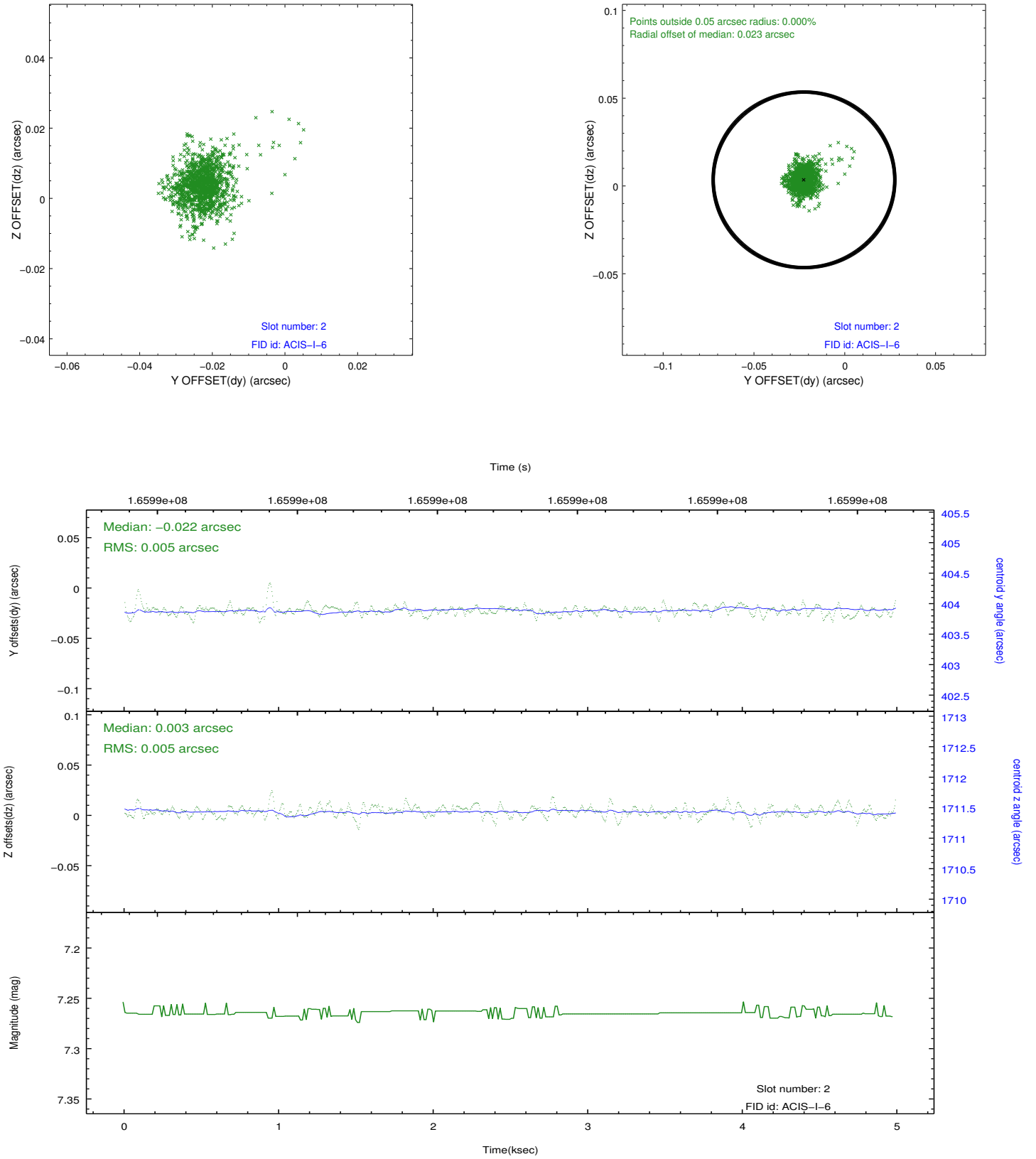
### 2.5.1 Slot 0



## 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)	2012.11.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.575

### A.2 Comments