

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 6982 - L2 Version 2  
Chandra X-Ray Center

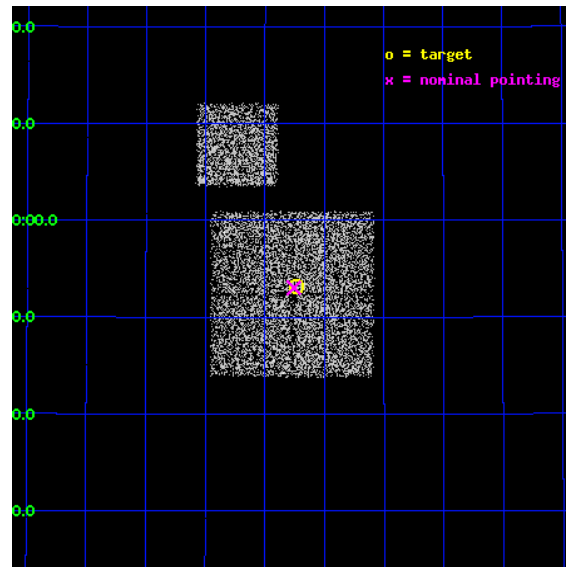
L2 Processing Date : Apr 12 2012

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# 1 Front

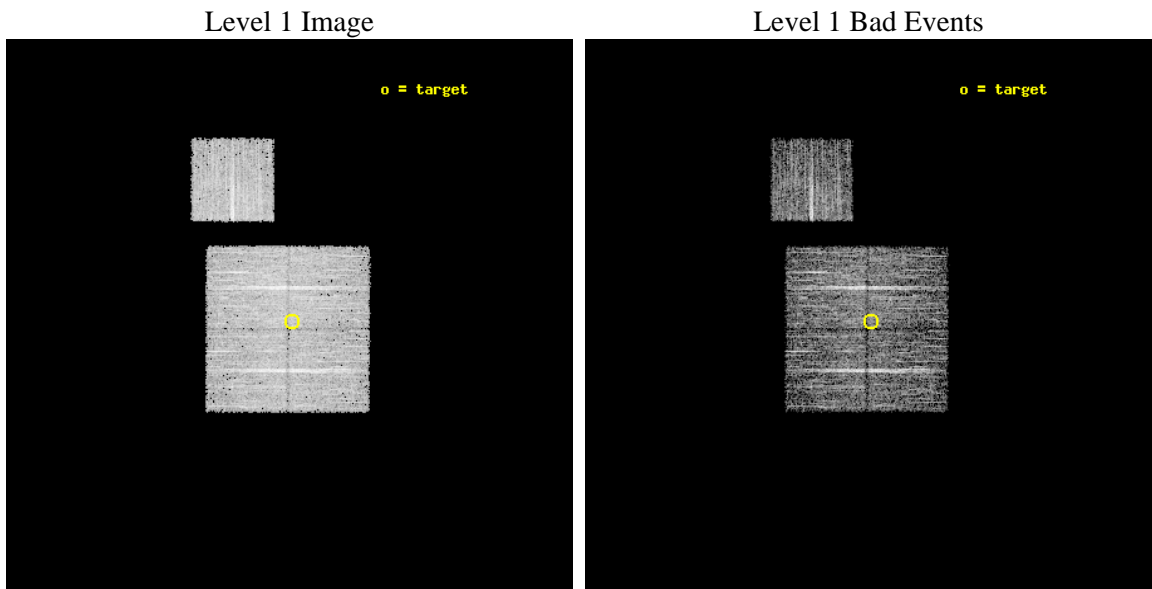
seq_num	900398	Sequence number
obs_id	6982	Observation id
title	Chandra Large Scale Survey of the NOAO Bootes Deep Field (A)	Propo
observer	Dr. Stephen Murray	Principal investigator
object	Bootes2 4	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.809038	Observer's specified target RA [deg]
dec_targ	33.885714	Observer's specified target Dec [deg]
ra_nom	217.81418821152	Nominal RA [deg]
dec_nom	33.883996938394	Nominal Dec [deg]
roll_nom	0.20581220566073	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4776.5614562035	Sum of GTIs [s]
livetime	4714.1521643248	Livetime [s]
ontime0	4776.4383361936	Sum of GTIs [s]
ontime1	4773.3384258151	Sum of GTIs [s]
ontime2	4773.3794558048	Sum of GTIs [s]
ontime3	4776.5614562035	Sum of GTIs [s]
ontime6	4776.3972961903	Sum of GTIs [s]
l2events	13677	Number of level 2 events



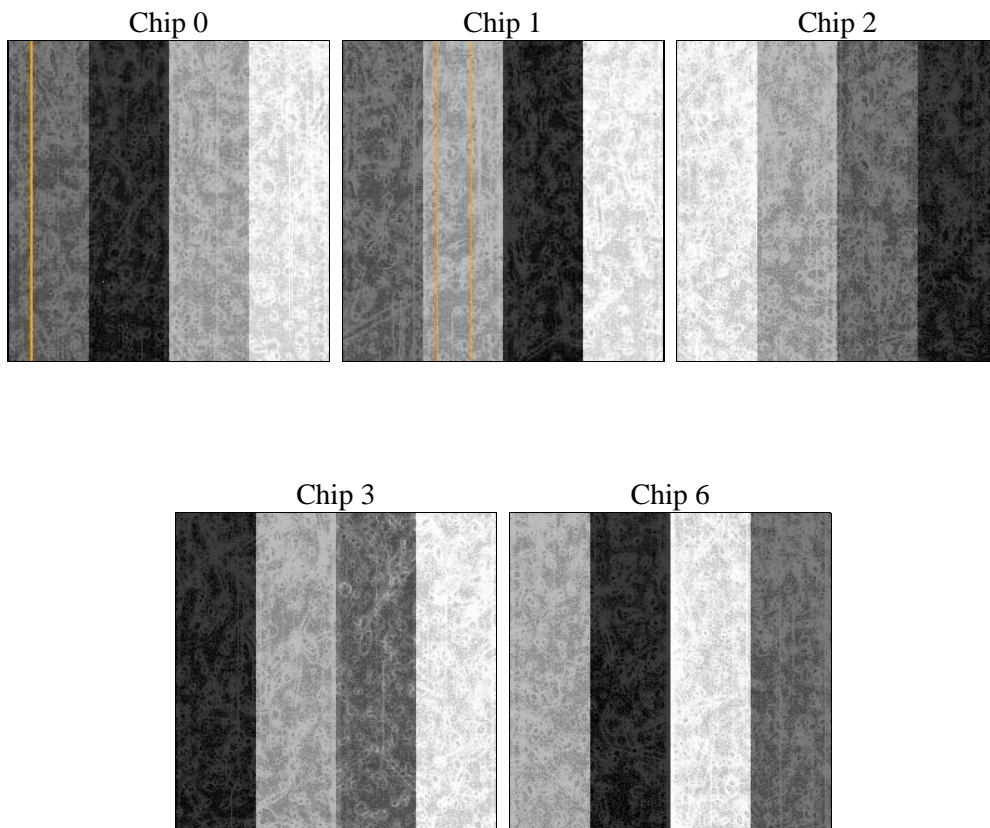
## 2 OBI

### 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	8.4.3.1	Processing system revision	ontime	4776.5614562035	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	4776.4383361936	Sum of GTIs [s]
date	2012-04-12T22:55:48	Date and time of file creation	ontime1	4773.3384258151	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4773.3794558048	Sum of GTIs [s]
			ontime3	4776.5614562035	Sum of GTIs [s]
			ontime6	4776.3972961903	Sum of GTIs [s]
			l1events	177452	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	34013	32886	39734	35174	35645
rejected events	30700	29382	36402	32043	32195
rejected %	90%	89%	91%	91%	90%

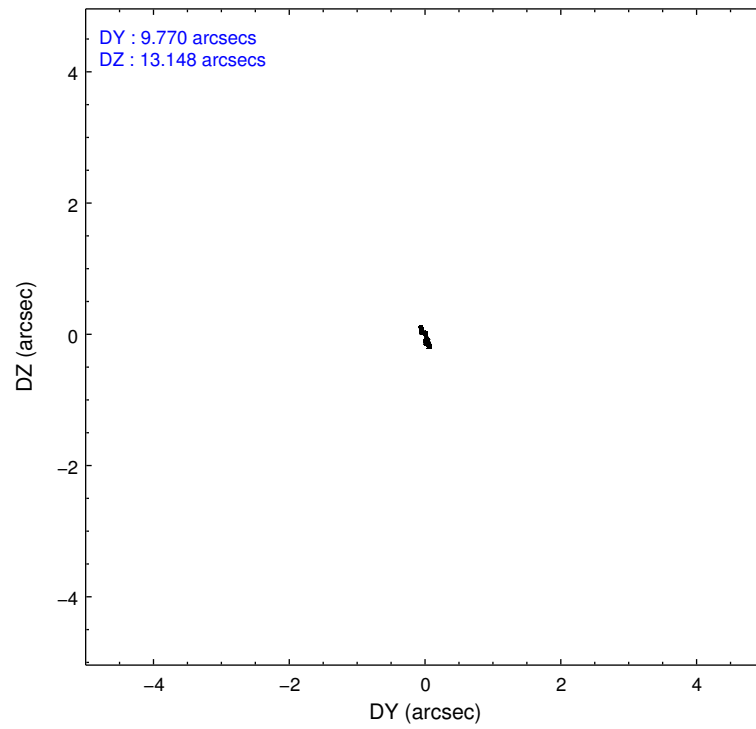
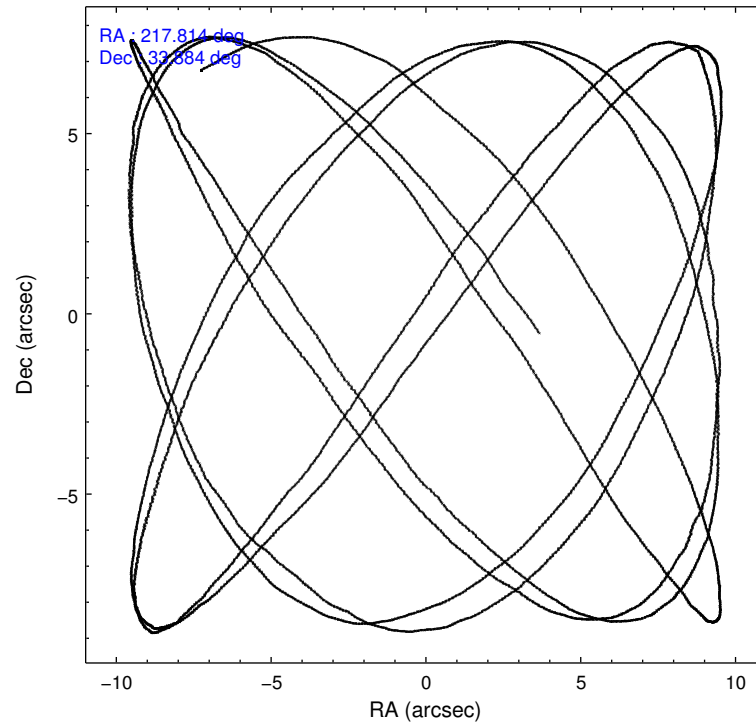
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1186	1183	1174	1099	1269
	3%	3%	2%	3%	3%
grade 1 events	14	21	22	15	16
	0%	0%	0%	0%	0%
grade 2 events	789	812	831	706	764
	2%	2%	2%	2%	2%
grade 3 events	364	396	346	353	406
	1%	1%	0%	1%	1%
grade 4 events	356	407	407	375	378
	1%	1%	1%	1%	1%
grade 5 events	975	1144	956	1200	1186
	2%	3%	2%	3%	3%
grade 6 events	619	708	576	601	636
	1%	2%	1%	1%	1%
grade 7 events	29710	28215	35422	30825	30990
	87%	85%	89%	87%	86%

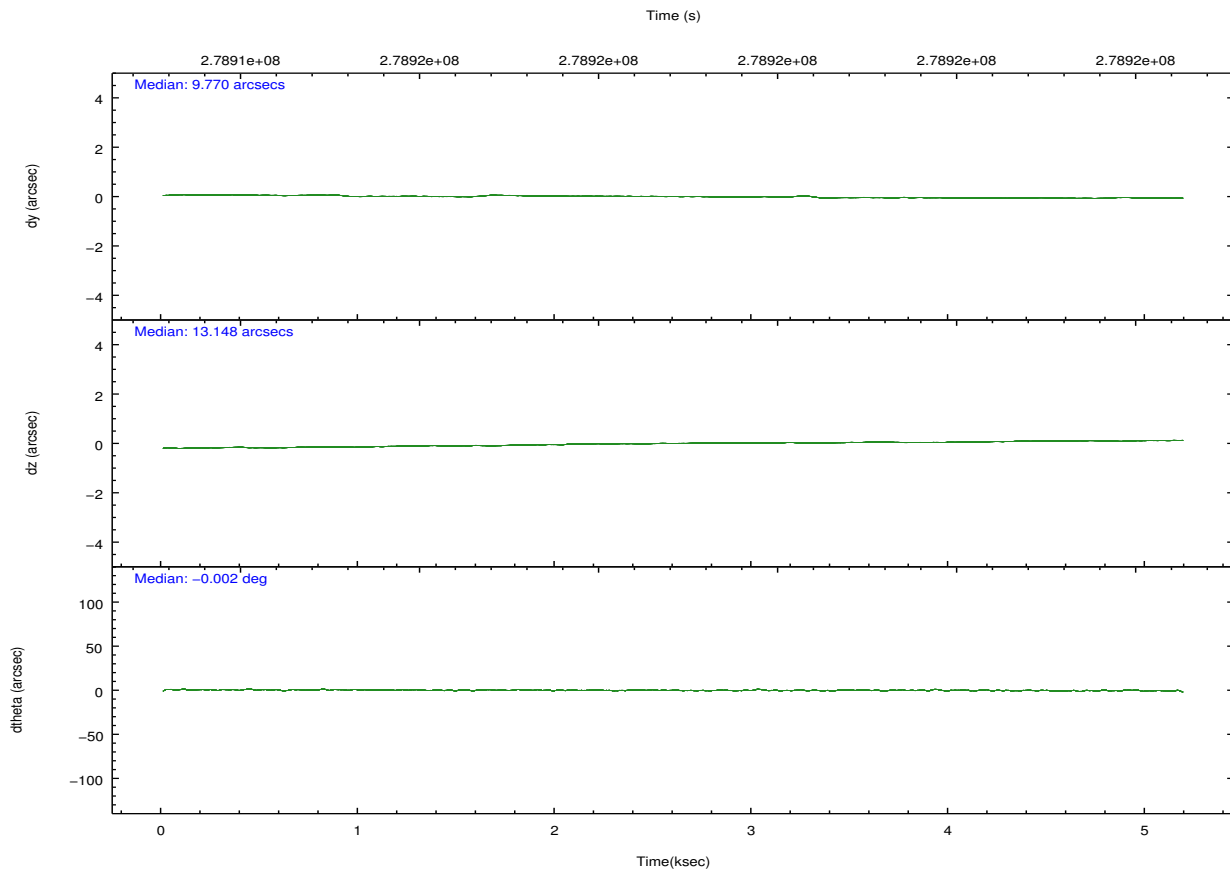
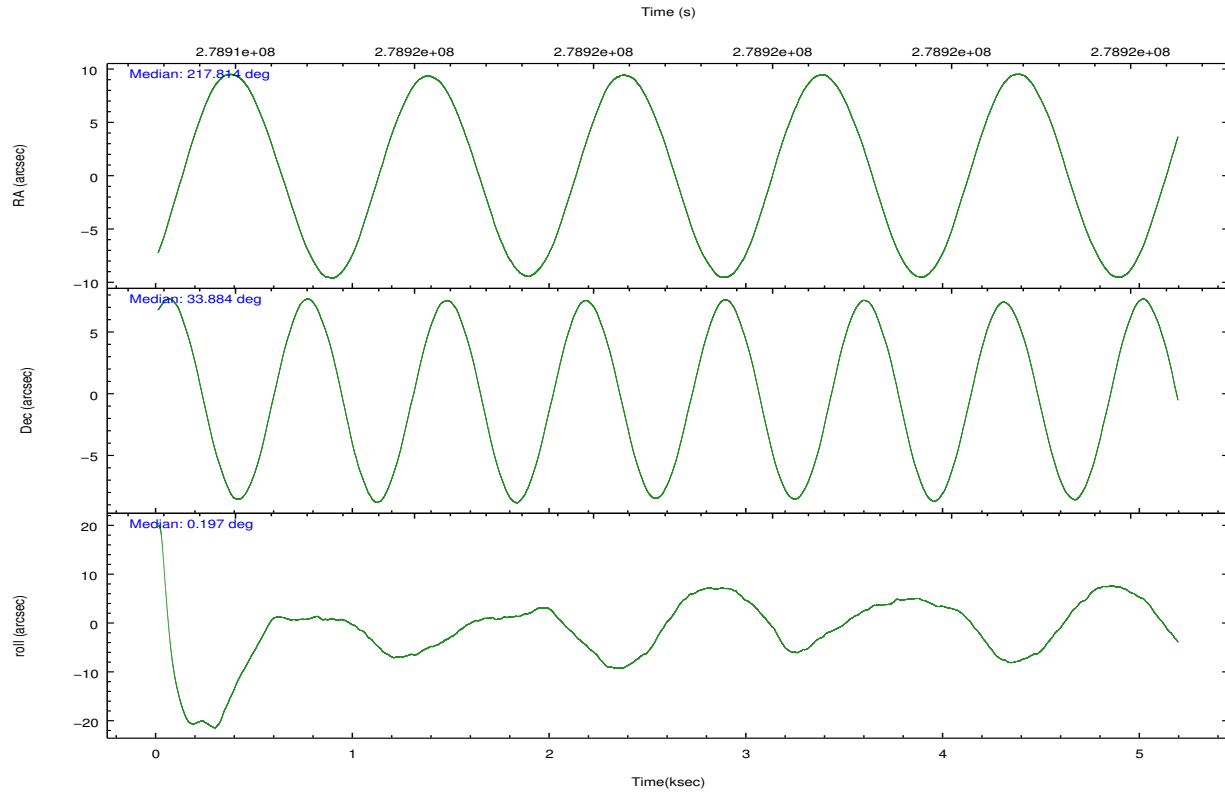


## 2.2 Compared Parameters

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	217.785757	217.8141882115214	Subarray requested	NONE	NONE
[deg] Pointing Dec	33.870046	33.88399693839423	Alternating exposures requested	N	N
[deg] Pointing Roll	0.012980	0.2058122056607259	[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)	278914020.184000	278913643.75229			
Observation start date	2006-11-03T04:05:55	2006-11-03T04:00:43			
[s] Observation end time (MET)	278919020.184000	278919154.15255			
Observation end date	2006-11-03T05:29:15	2006-11-03T05:32:34			
Read mode	TIMED	TIMED			

## 2.3 Aspect



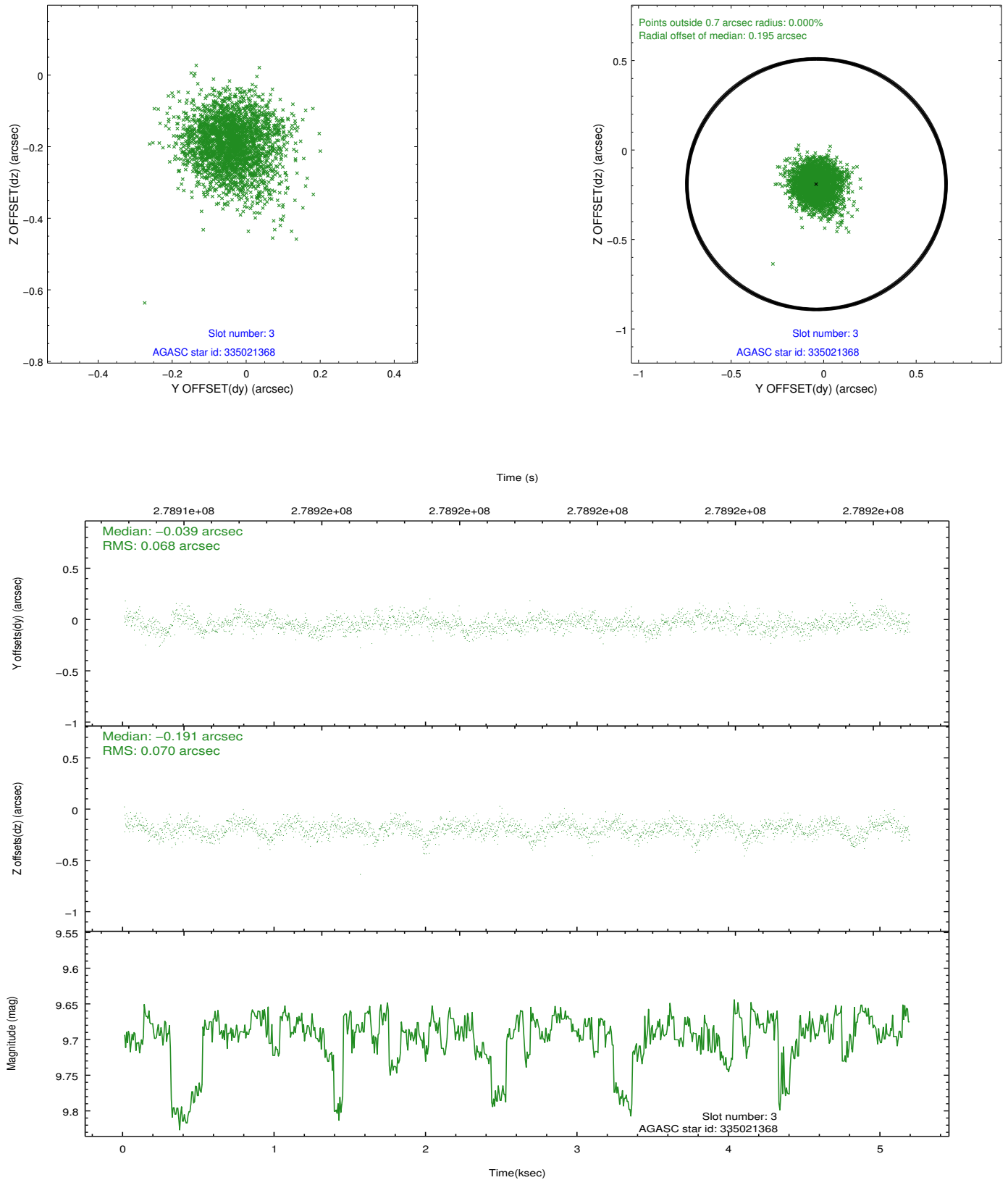


### Slot Statistics

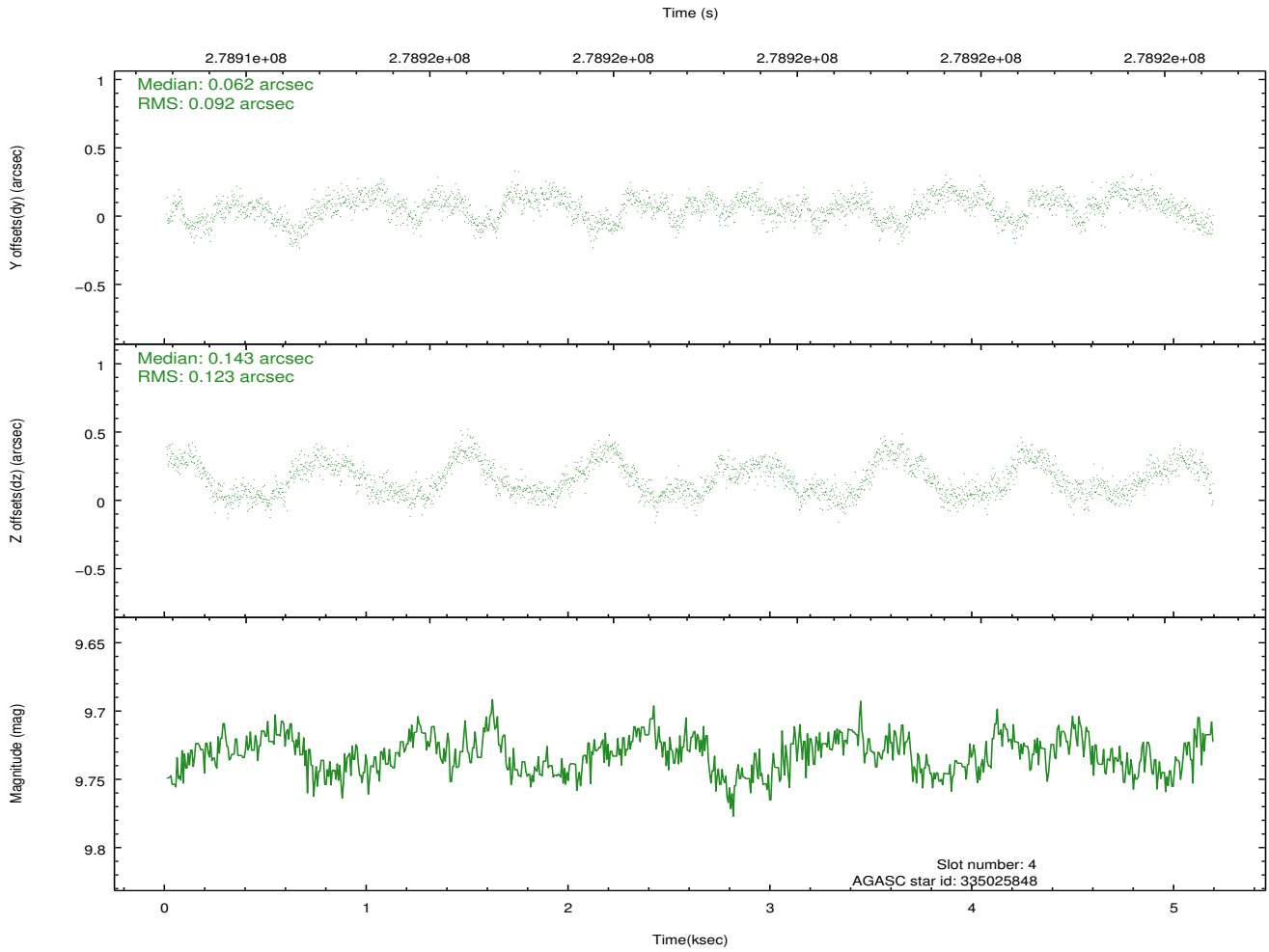
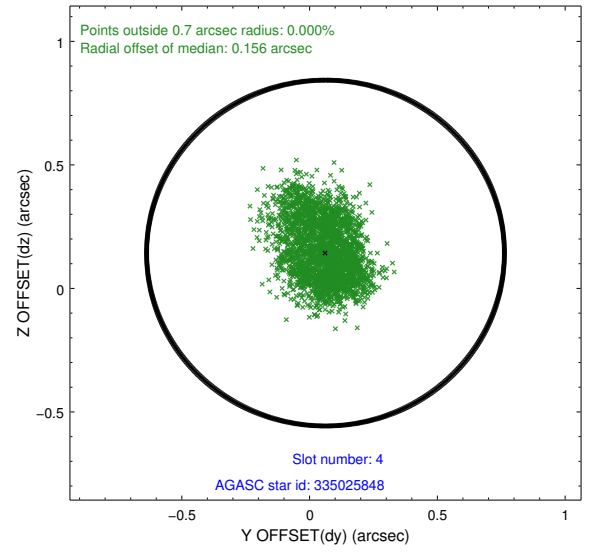
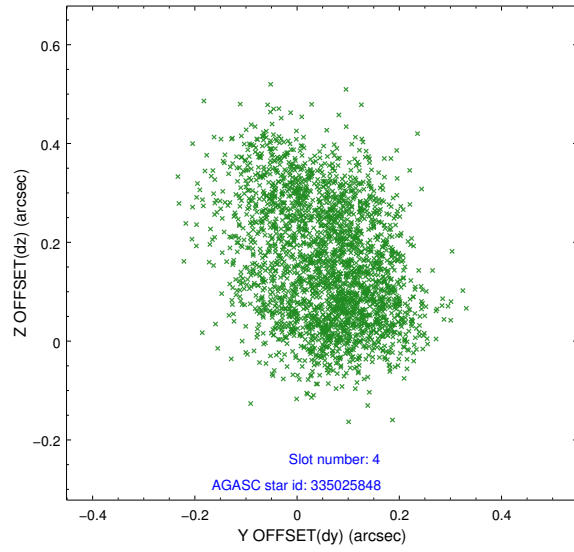
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1265	0.035	0.014	0.007	0.013	0.000000	0.000000	929.87	-836.66
1	FID	ACIS-I-5	7.23	1265	-0.197	0.049	0.007	0.012	0.000000	0.000000	-1817.81	1060.28
2	FID	ACIS-I-6	7.25	1265	0.070	0.007	0.007	0.011	0.000000	0.000000	394.19	1706.06
3	GUIDE	335021368	9.69	2517	-0.039	-0.191	0.103	0.170	217.529643	33.934817	-764.83	233.88
4	GUIDE	335025848	9.73	2526	0.062	0.143	0.165	0.260	217.530531	33.778292	-763.84	-329.17
5	GUIDE	335028696	9.18	2461	-0.254	0.073	0.084	0.137	217.260519	33.844112	-1570.89	-89.32
6	GUIDE	335027640	9.10	2530	0.146	0.042	0.090	0.149	218.092211	33.193770	922.78	-2433.40
7	GUIDE	335025040	9.92	2525	0.083	-0.072	0.138	0.228	218.601670	34.305240	2427.08	1575.13

## 2.4 Star Slots

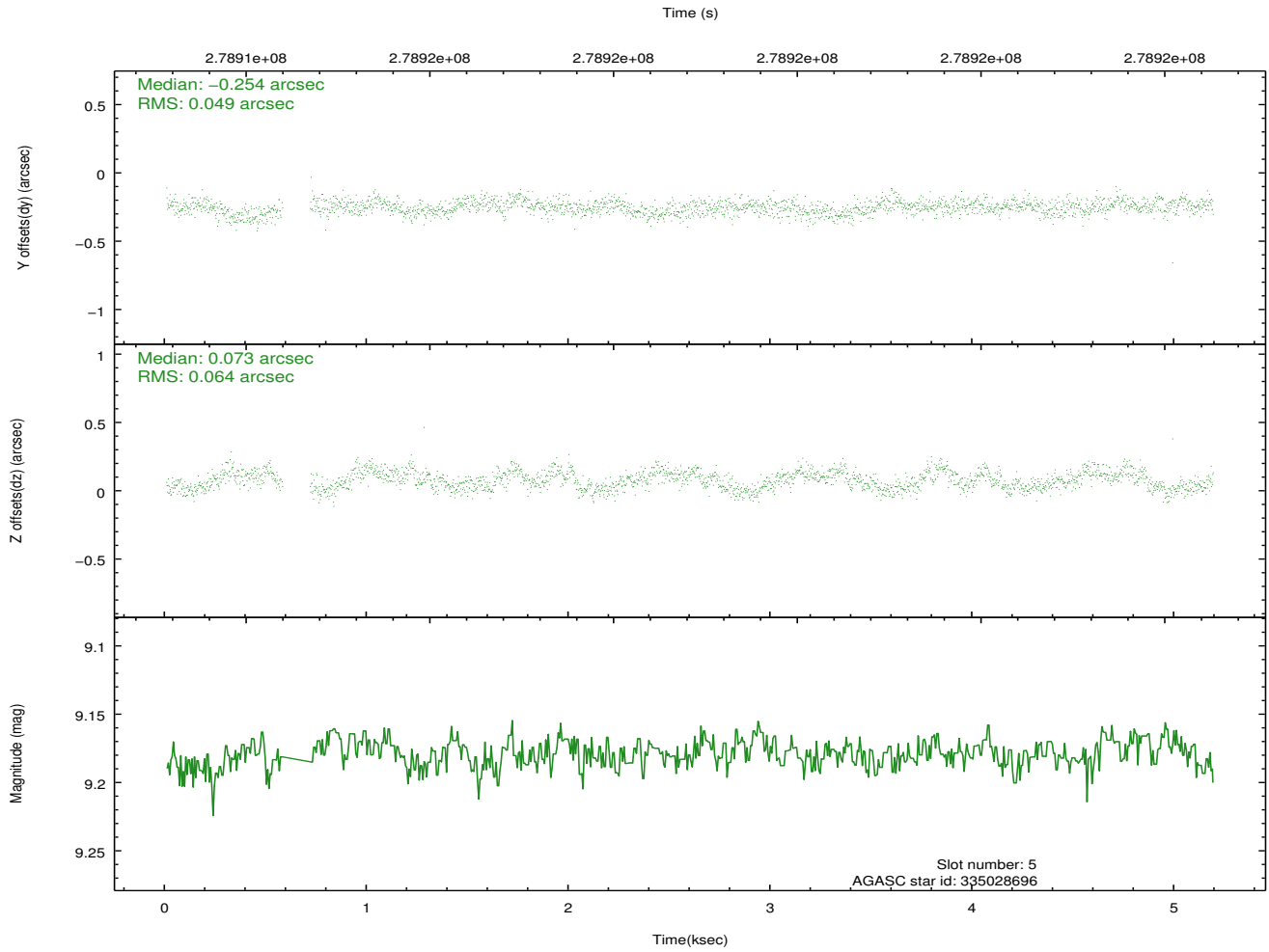
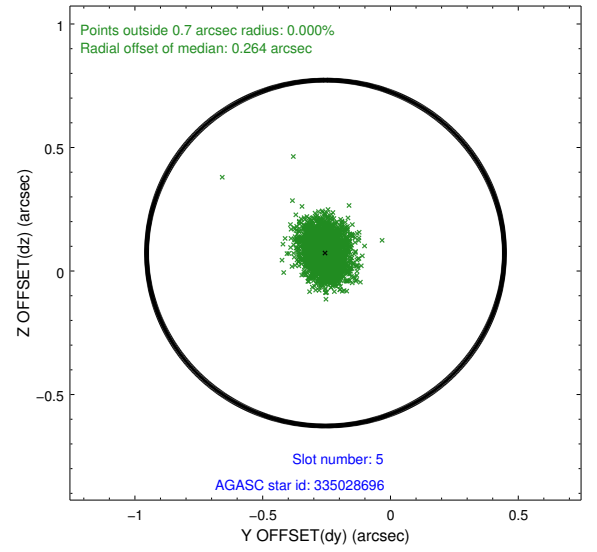
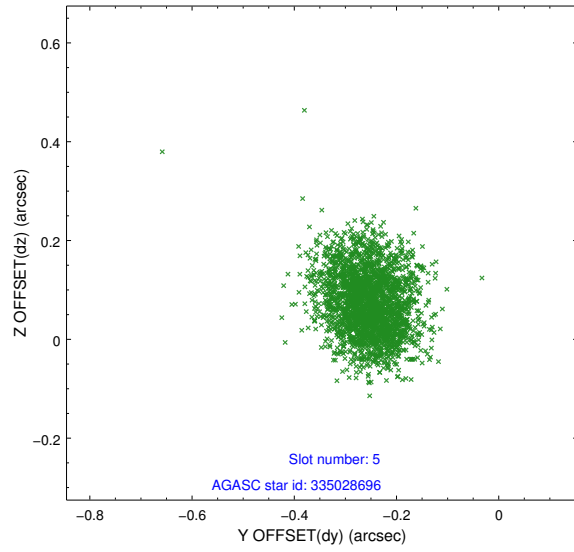
### 2.4.1 Slot 3



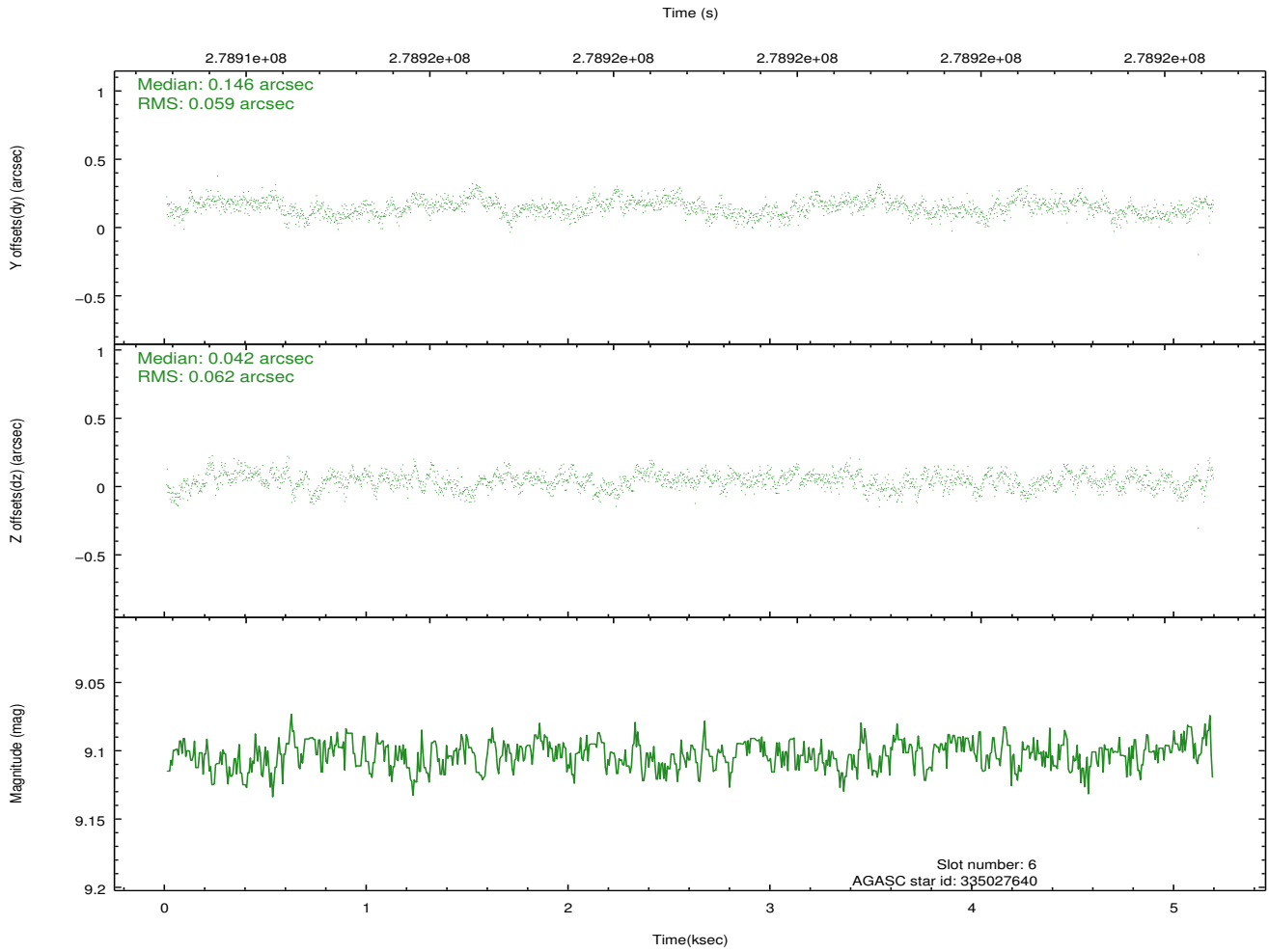
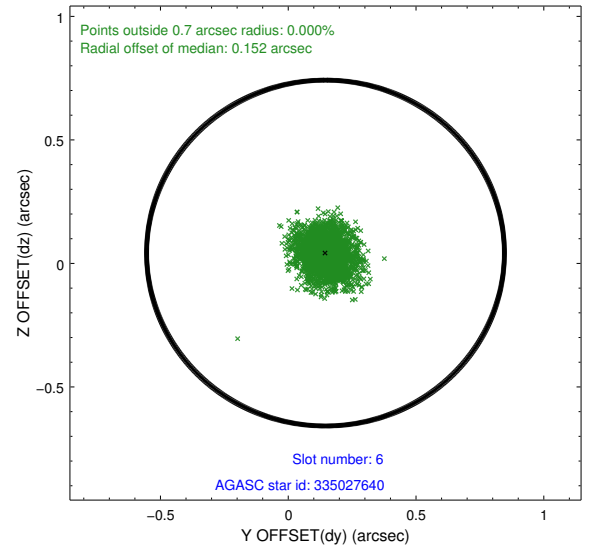
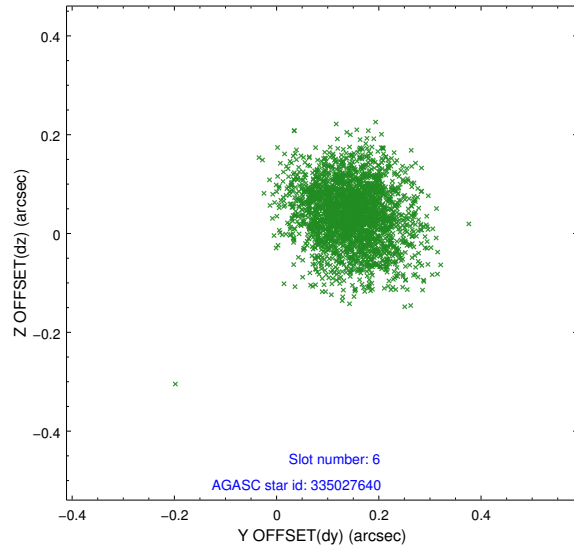
## 2.4.2 Slot 4



### 2.4.3 Slot 5

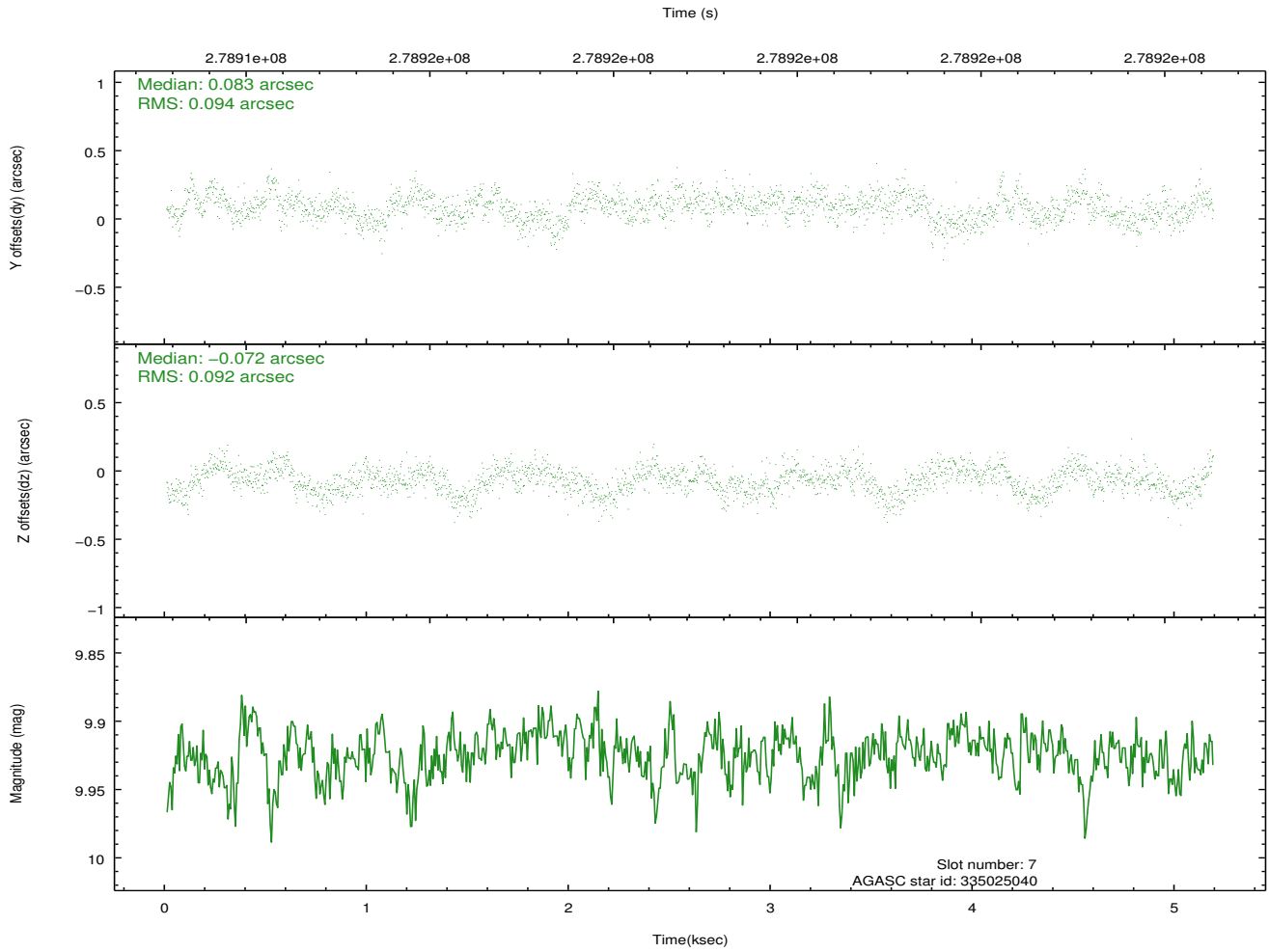
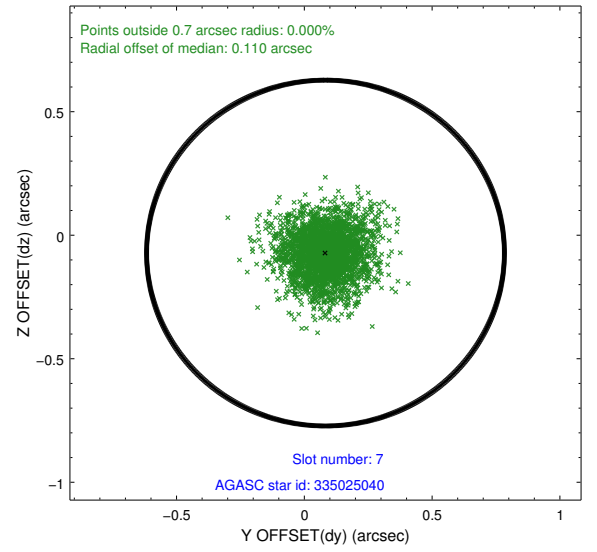
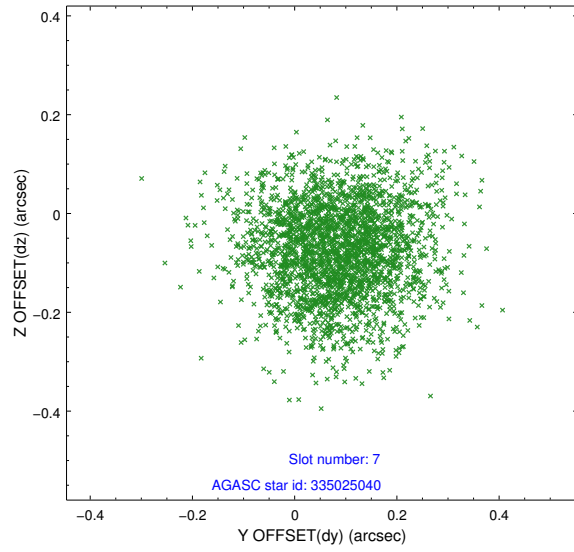


## 2.4.4 Slot 6



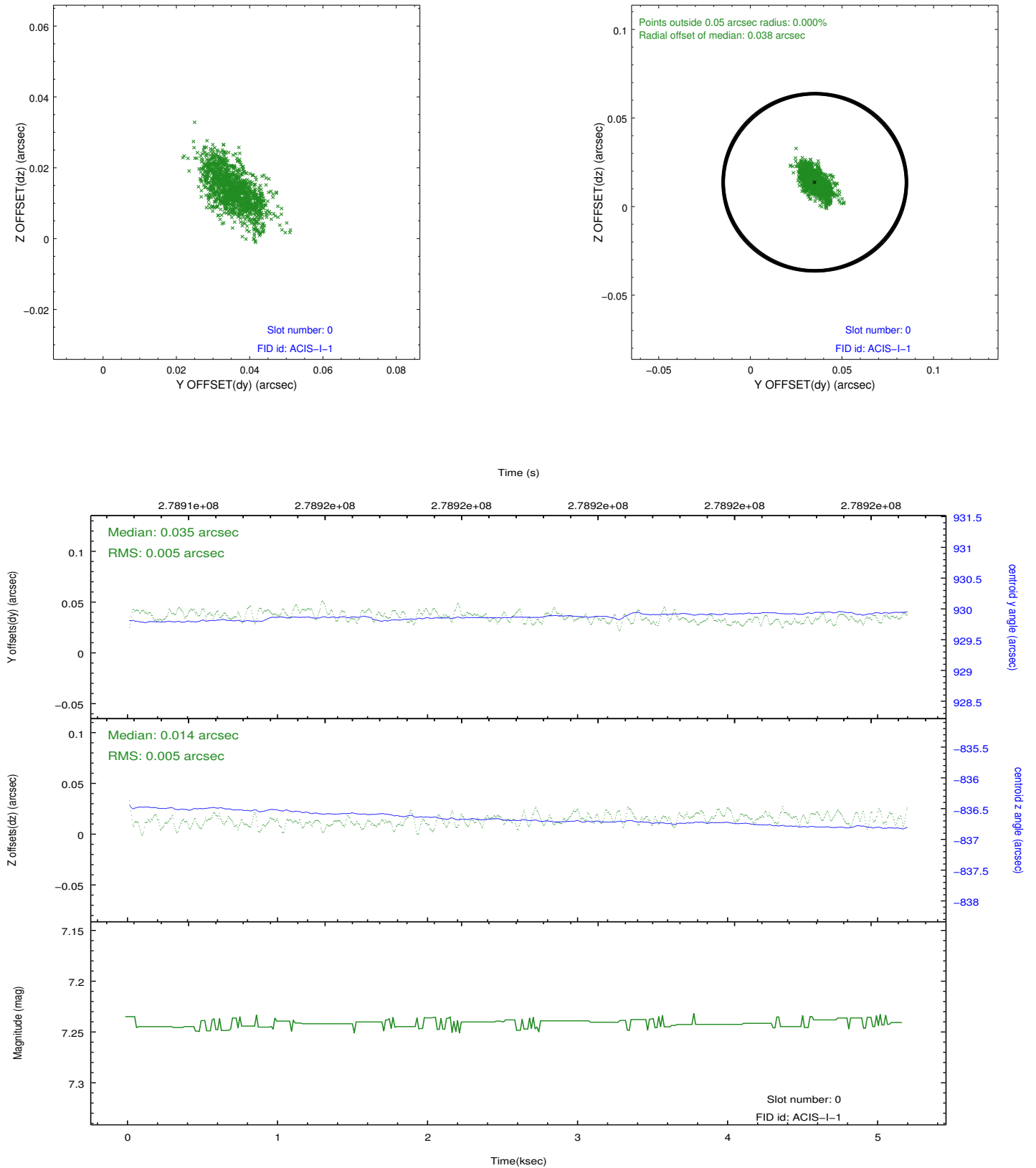


## 2.4.5 Slot 7

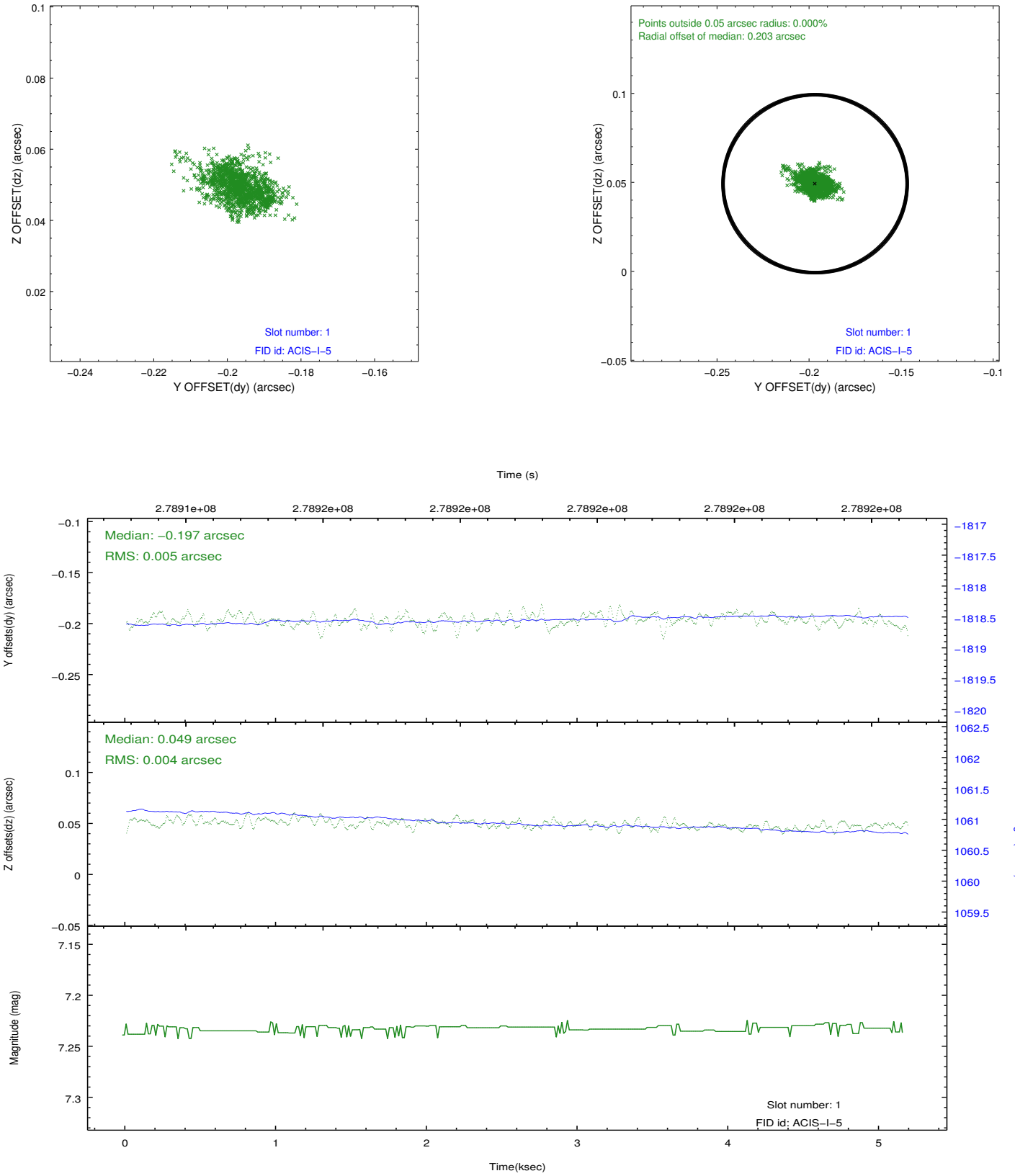


## 2.5 FID Slots

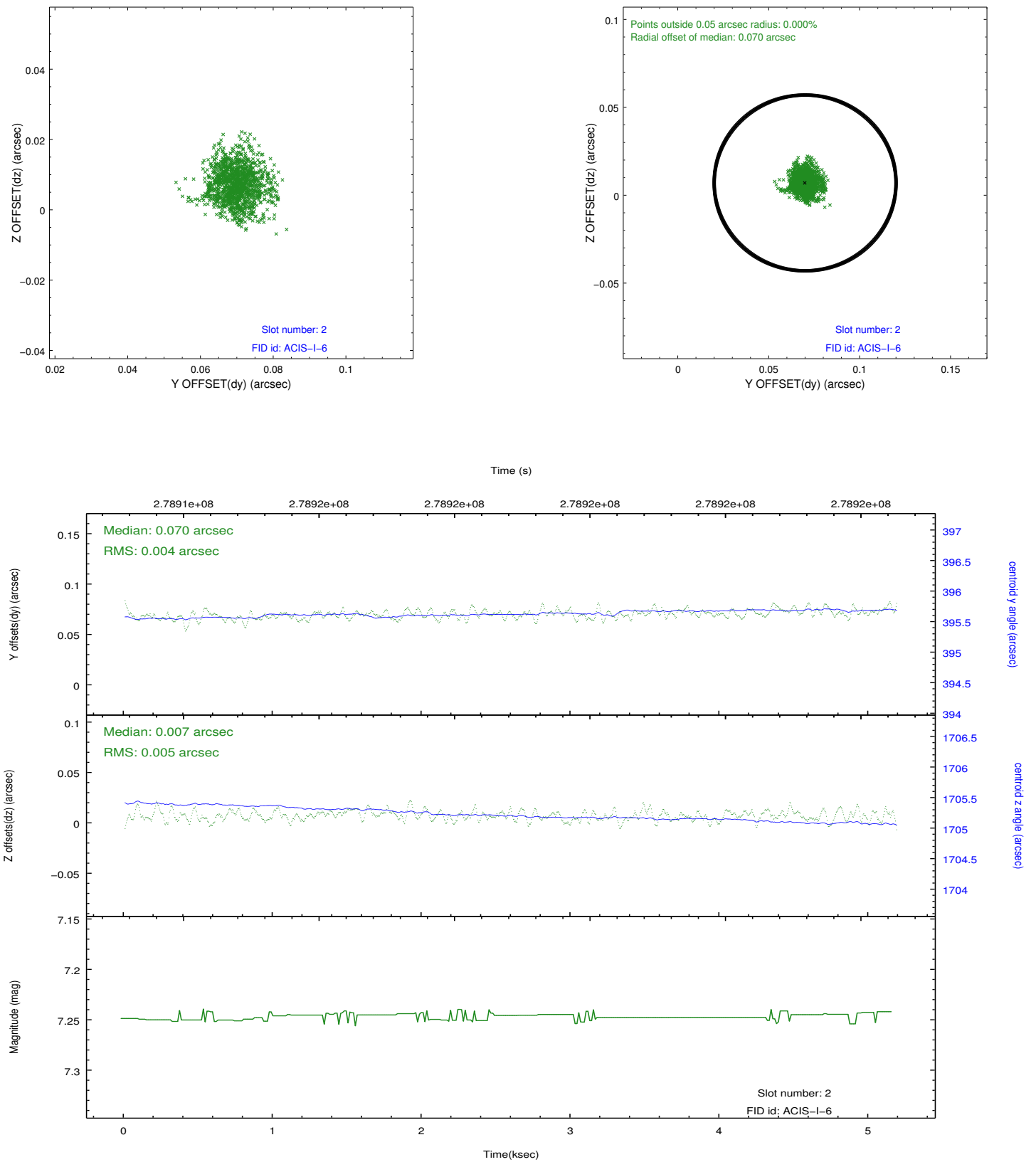
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.04.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.77710003

### A.2 Comments