

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11633 - L2 Version 2  
Chandra X-Ray Center

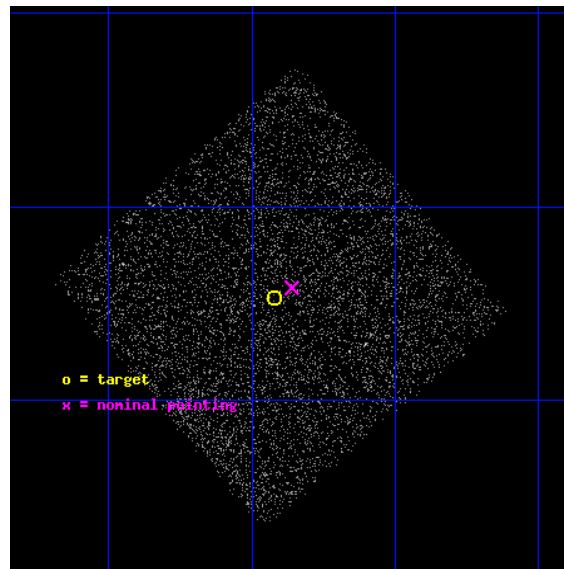
L2 Processing Date : Jun 20 2012

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# 1 Front

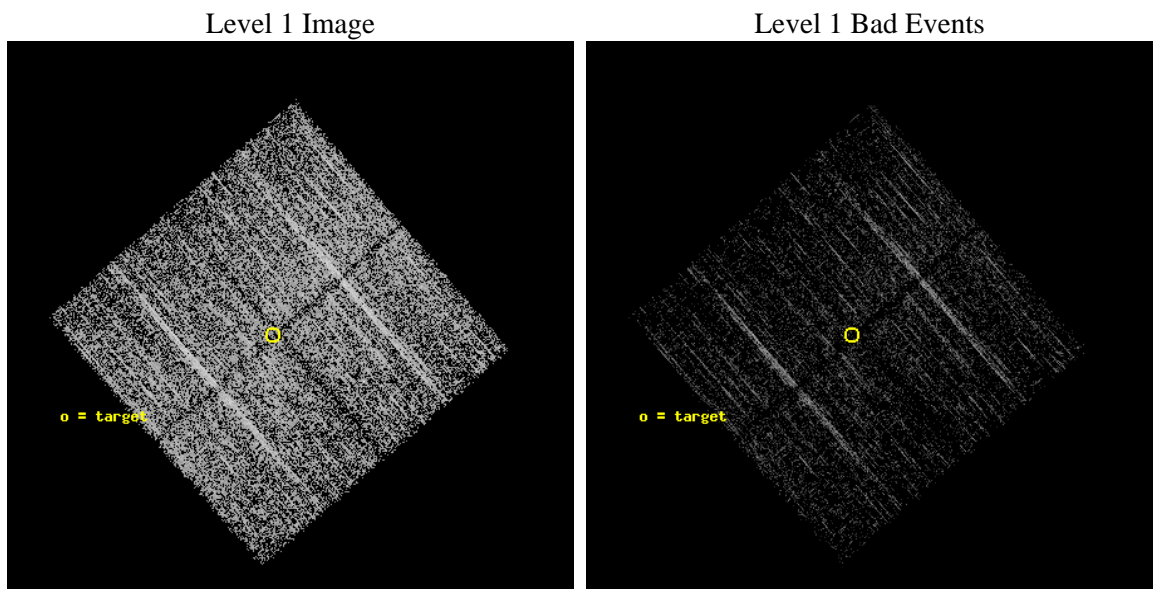
seq_num	702219	Sequence number
obs_id	11633	Observation id
title	AGN ignition in the galaxy group environment	Proposal title
observer	Dr. John Silverman	Principal investigator
object	2PIGG_m1320	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	154.480417	Observer's specified target RA [deg]
dec_targ	-1.411583	Observer's specified target Dec [deg]
ra_nom	154.46525531233	Nominal RA [deg]
dec_nom	-1.403366052705	Nominal Dec [deg]
roll_nom	49.072899055408	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2635.0000202656	Sum of GTIs [s]
livetime	2600.571805142	Livetime [s]
ontime0	2635.0000202656	Sum of GTIs [s]
ontime1	2635.0000202656	Sum of GTIs [s]
ontime2	2635.0000202656	Sum of GTIs [s]
ontime3	2635.0000202656	Sum of GTIs [s]
l2events	8023	Number of level 2 events



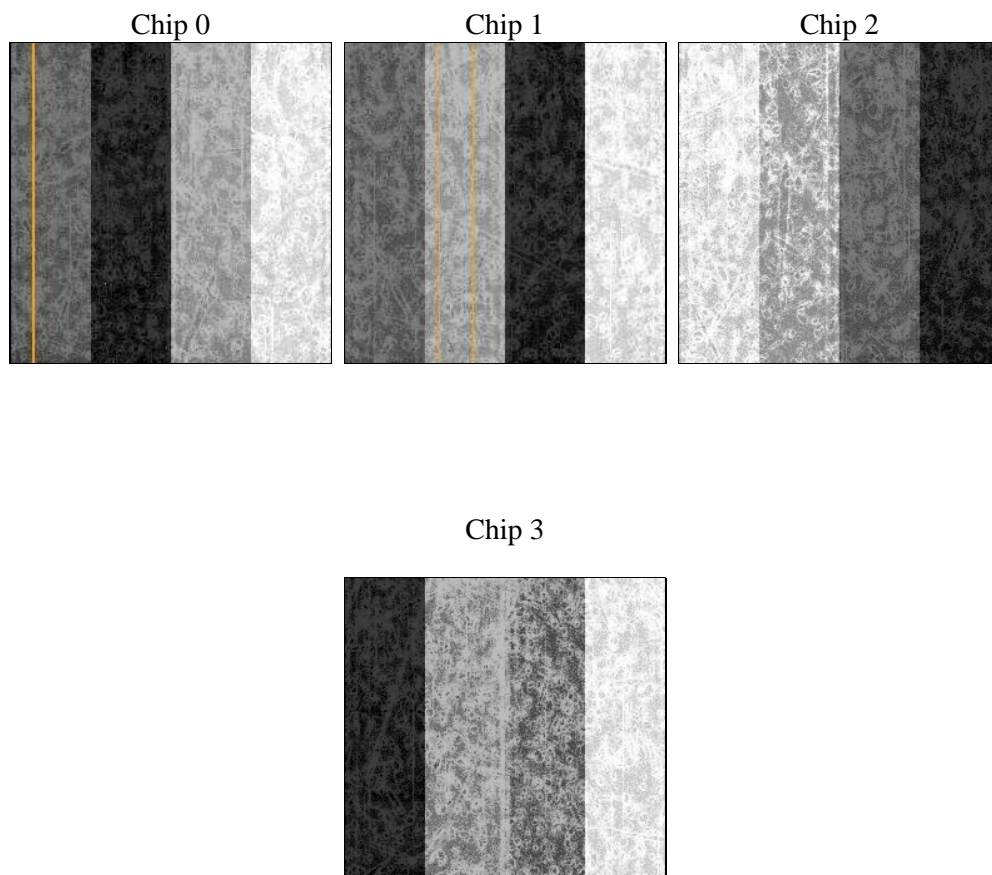
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2635.0000202656	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	2635.0000202656	Sum of GTIs [s]
date	2012-06-20T11:59:49	Date and time of file creation	ontime1	2635.0000202656	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2635.0000202656	Sum of GTIs [s]
			ontime3	2635.0000202656	Sum of GTIs [s]
			l1events	110523	Number of level 1 events

### 2.1.4 Events

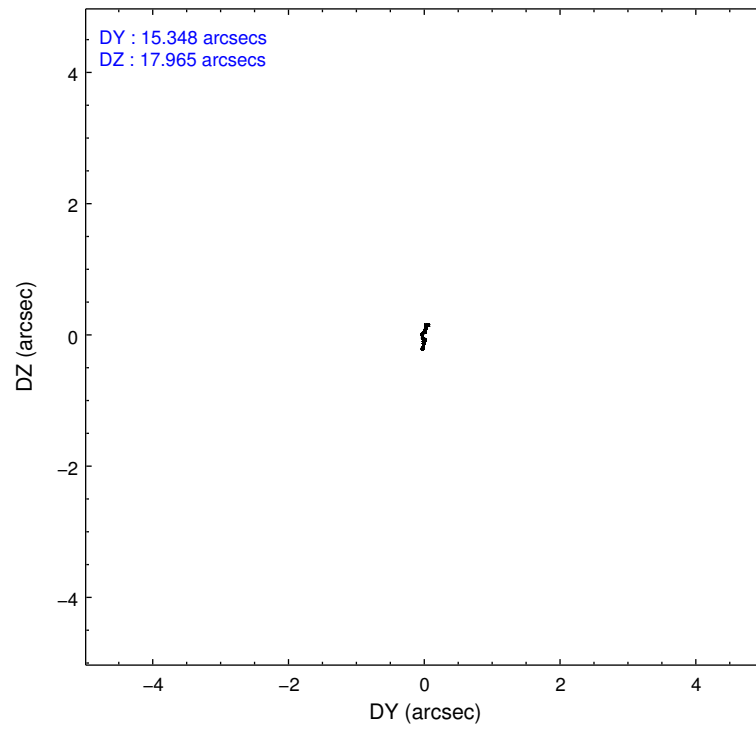
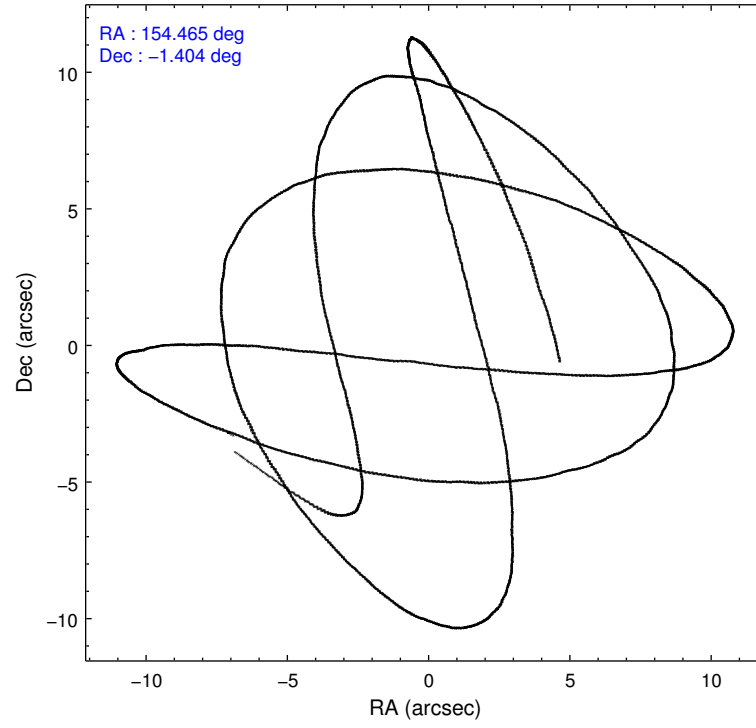
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	26068	26117	29533	28805
rejected events	23728	23451	27169	26559
rejected %	91%	89%	91%	92%

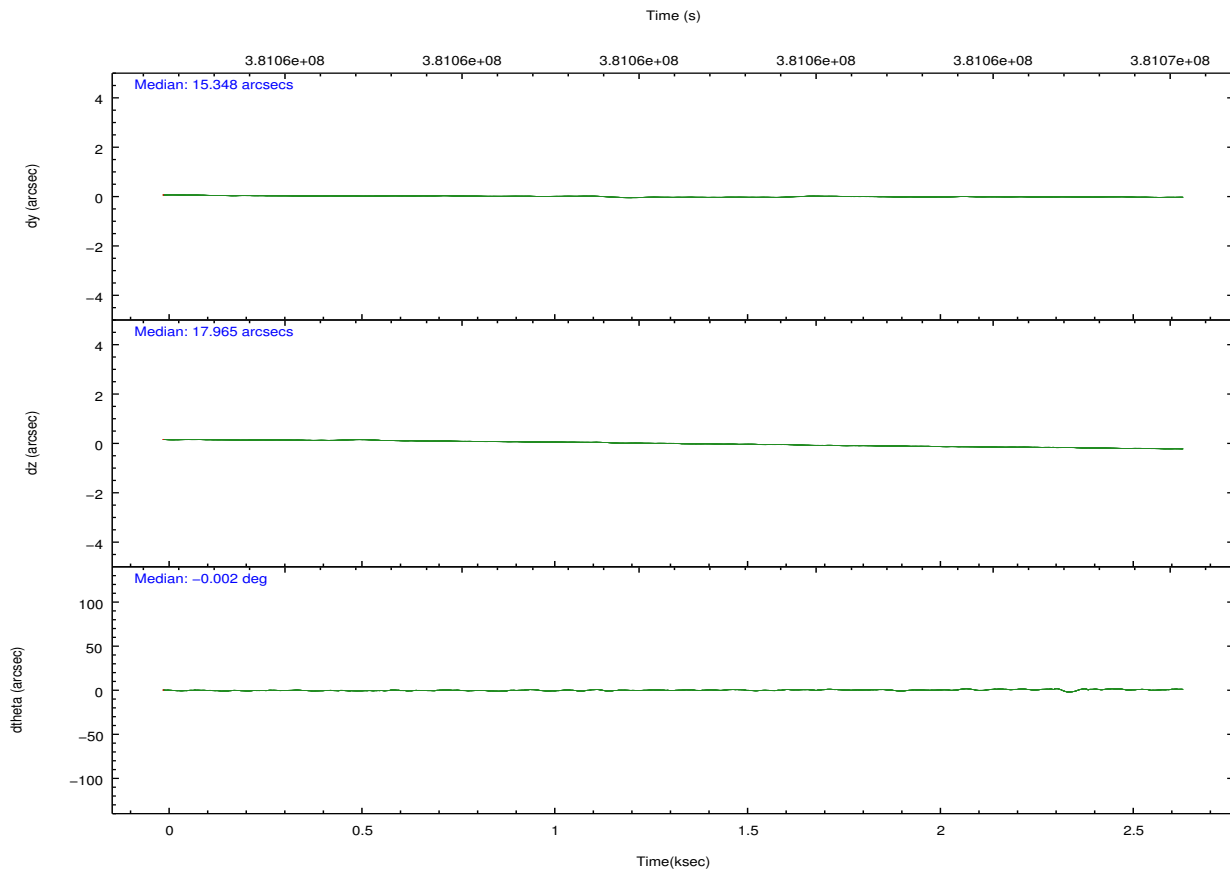
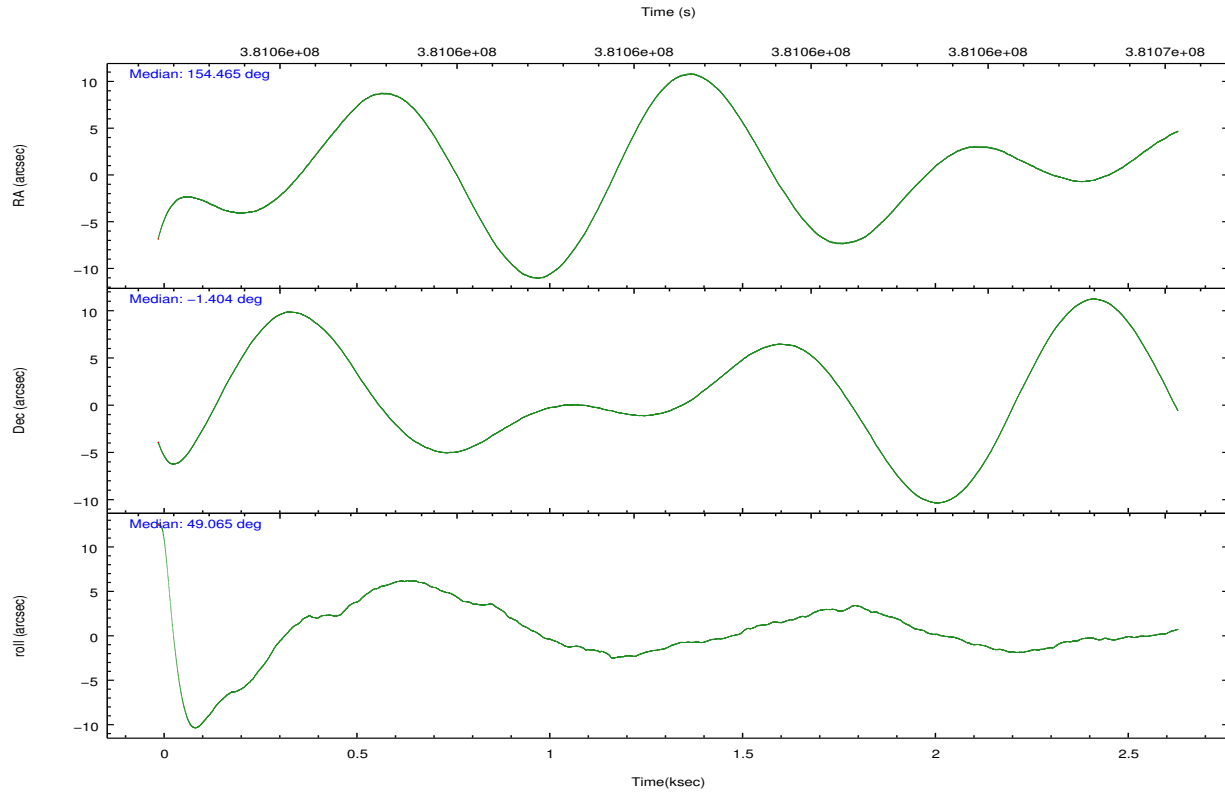
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1015	1207	1058	1043
	3%	4%	3%	3%
grade 1 events	11	16	19	21
	0%	0%	0%	0%
grade 2 events	690	781	725	679
	2%	2%	2%	2%
grade 3 events	355	335	322	326
	1%	1%	1%	1%
grade 4 events	307	350	319	277
	1%	1%	1%	0%
grade 5 events	1094	1121	1000	1191
	4%	4%	3%	4%
grade 6 events	583	721	571	568
	2%	2%	1%	1%
grade 7 events	22013	21586	25519	24700
	84%	82%	86%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	154.460205	154.4652553123311	Subarray requested	NONE	NONE
[deg] Pointing Dec	-1.430670	-1.403366052705006	Alternating exposures requested	N	N
[deg] Pointing Roll	48.863956	49.07289905540834	[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)	381062912.184000	381061661.98164			
Observation start date	2010-01-28T10:47:26	2010-01-28T10:27:41			
[s] Observation end time (MET)	381065412.184000	381065546.73184			
Observation end date	2010-01-28T11:29:06	2010-01-28T11:32:26			
Read mode	TIMED	TIMED			

## 2.3 Aspect





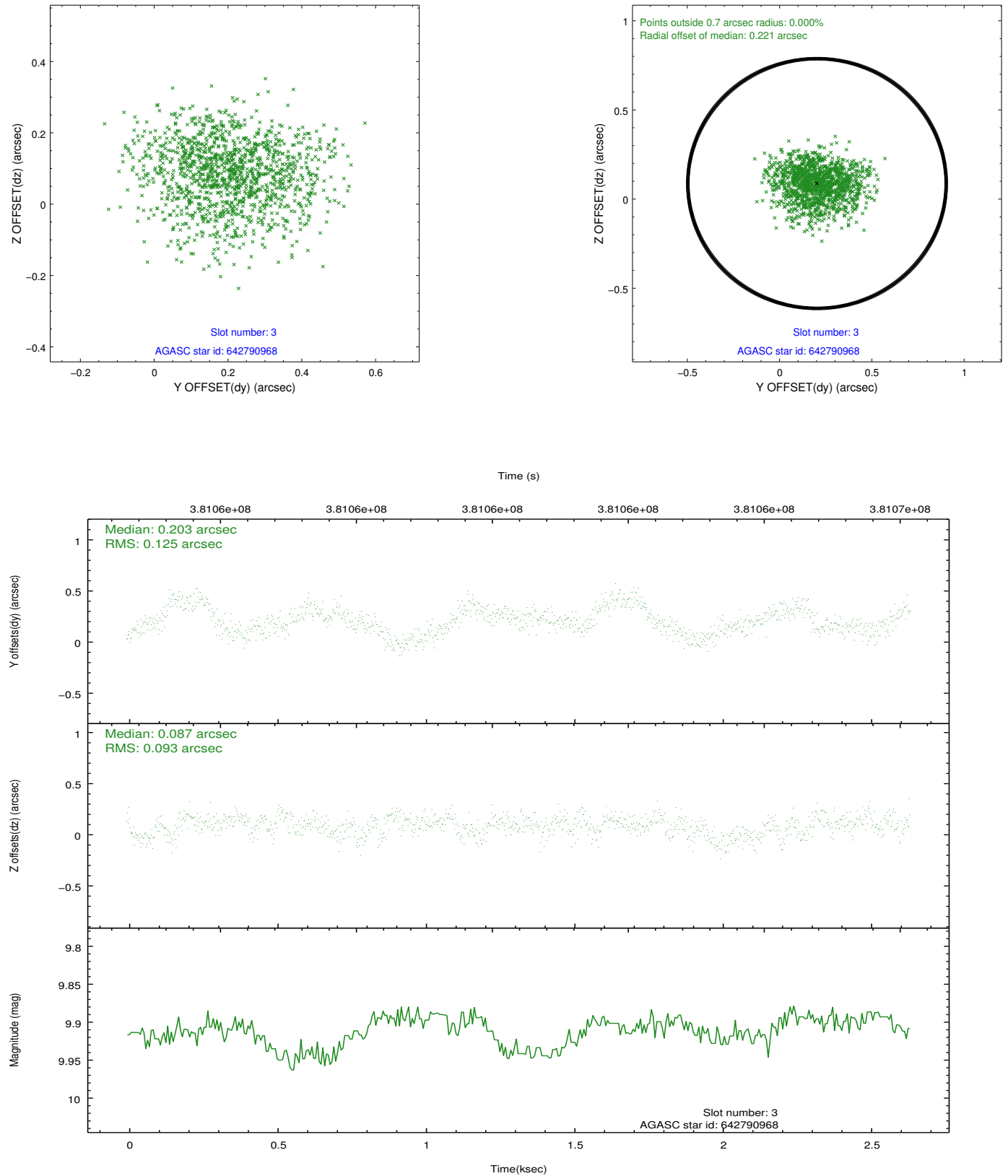
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	646	0.050	0.002	0.007	0.014	0.000000	0.000000	924.14	-841.63
1	FID	ACIS-I-5	6.99	646	-0.212	0.059	0.007	0.011	0.000000	0.000000	-1822.87	1054.70
2	FID	ACIS-I-6	7.01	646	0.071	0.010	0.007	0.012	0.000000	0.000000	387.07	1701.90
3	GUIDE	642790968	9.91	1286	0.203	0.087	0.168	0.272	154.507380	-1.925543	-1230.59	-1299.80
4	GUIDE	642791936	8.29	1291	-0.014	-0.119	0.091	0.154	154.566371	-1.244519	754.41	151.54
5	GUIDE	642792120	8.96	1291	0.034	-0.001	0.098	0.153	154.232708	-1.417096	-501.88	648.38
6	GUIDE	642793248	7.42	1291	-0.107	-0.070	0.080	0.129	154.033010	-1.597799	-1465.72	761.72
7	GUIDE	642793536	9.56	1289	-0.139	0.115	0.139	0.213	154.979446	-1.737519	395.68	-2133.87

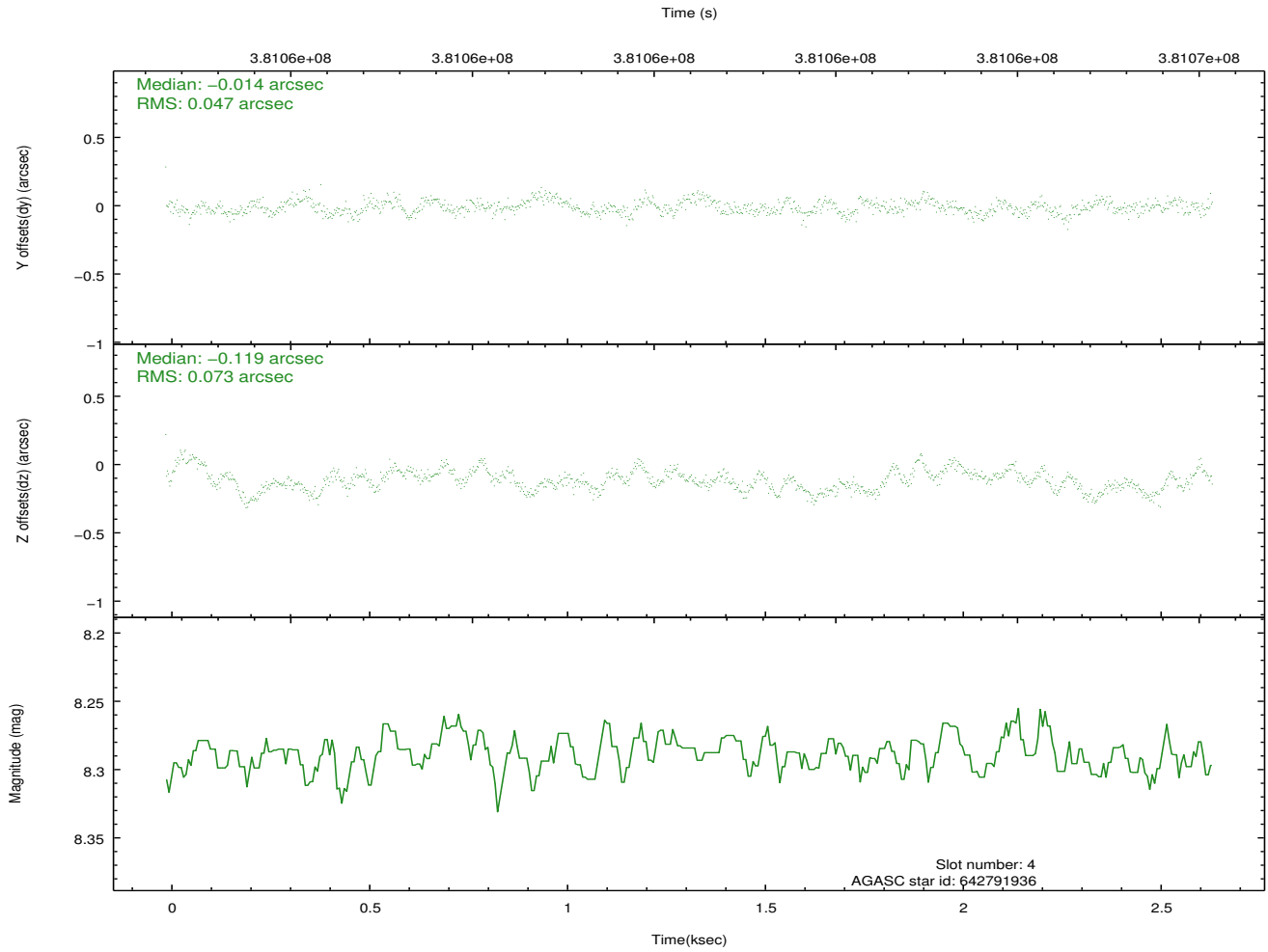
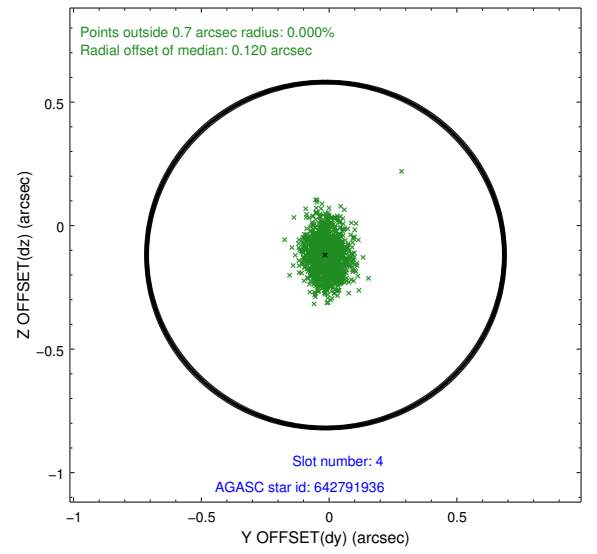
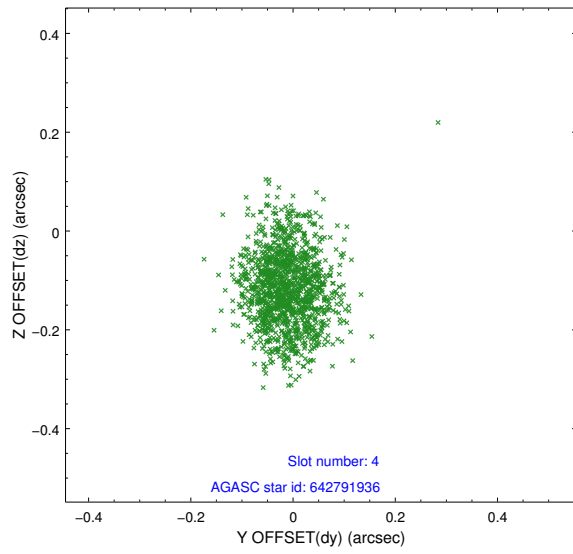


## 2.4 Star Slots

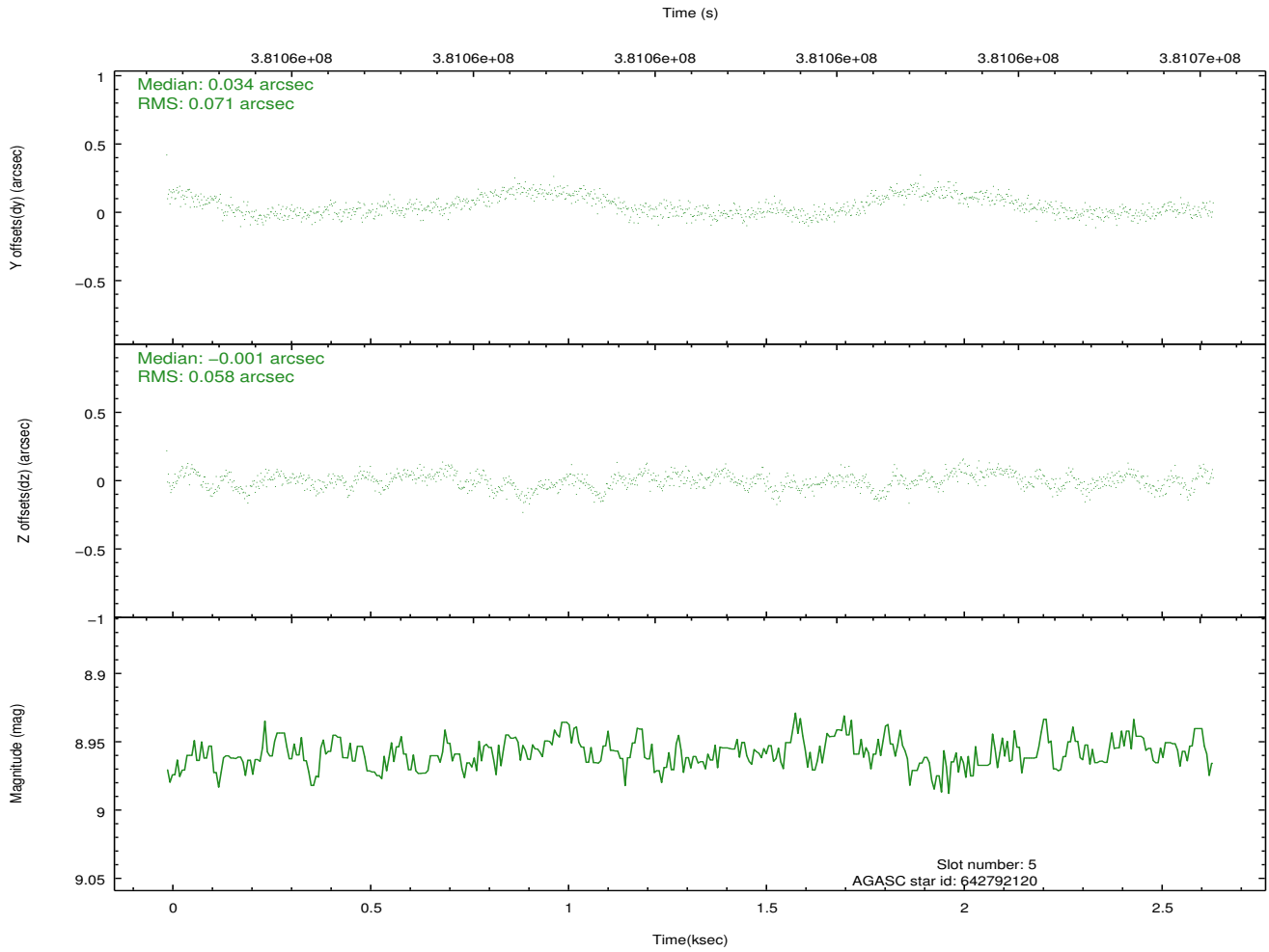
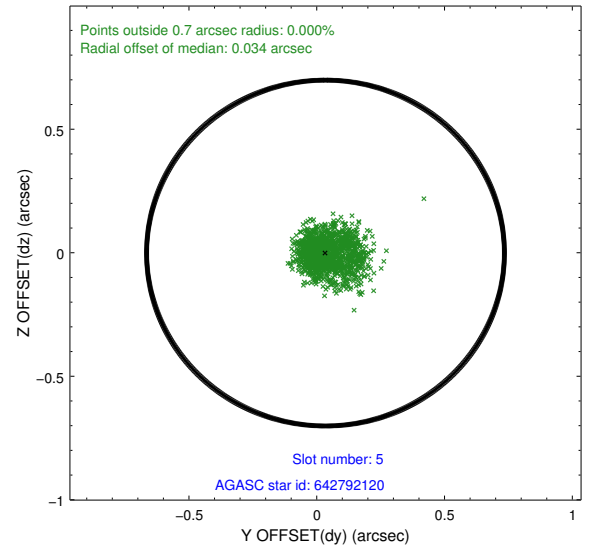
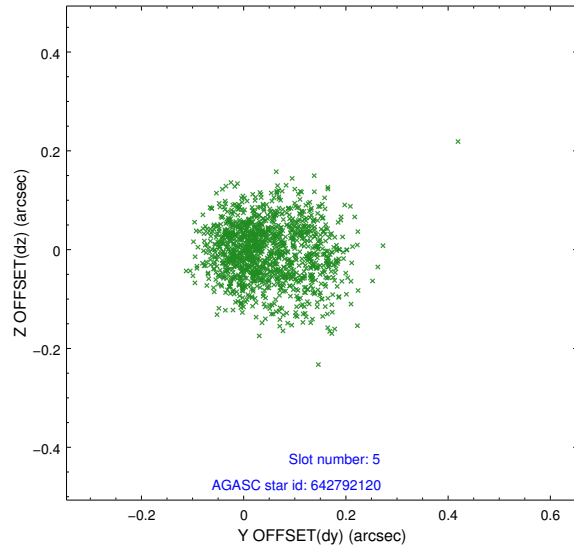
### 2.4.1 Slot 3



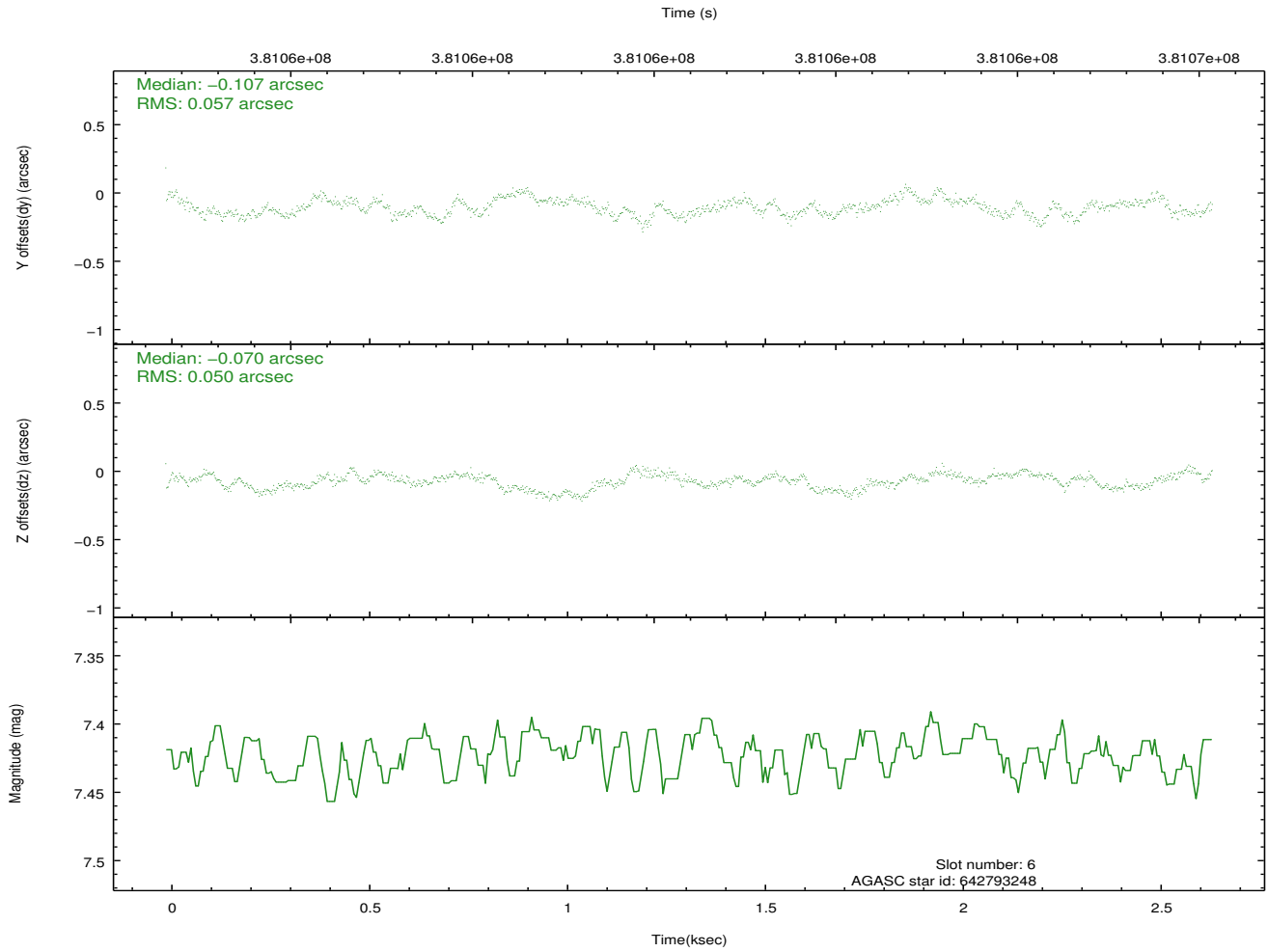
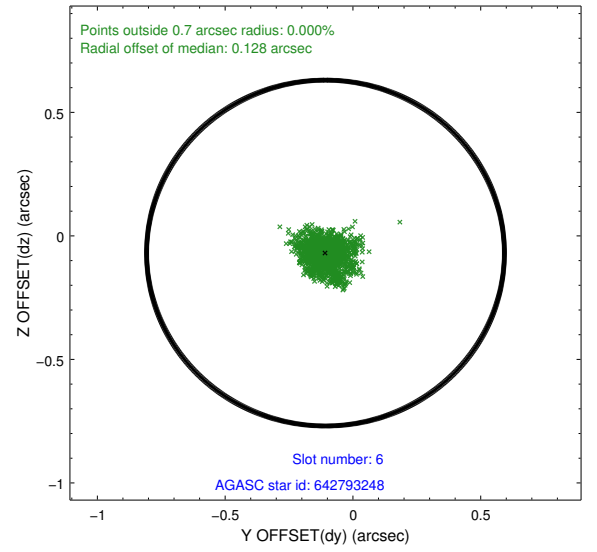
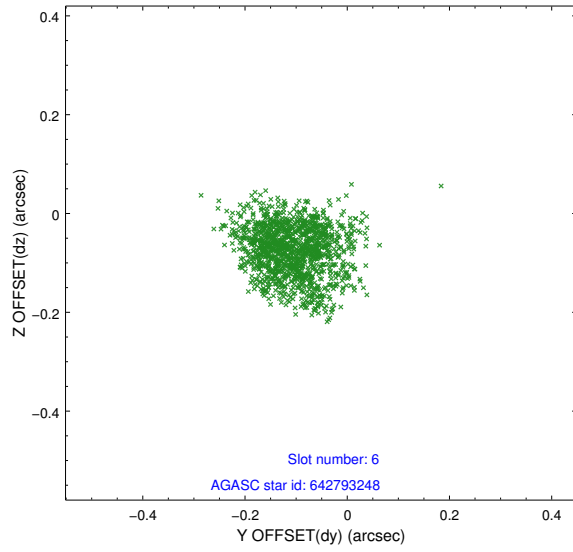
## 2.4.2 Slot 4



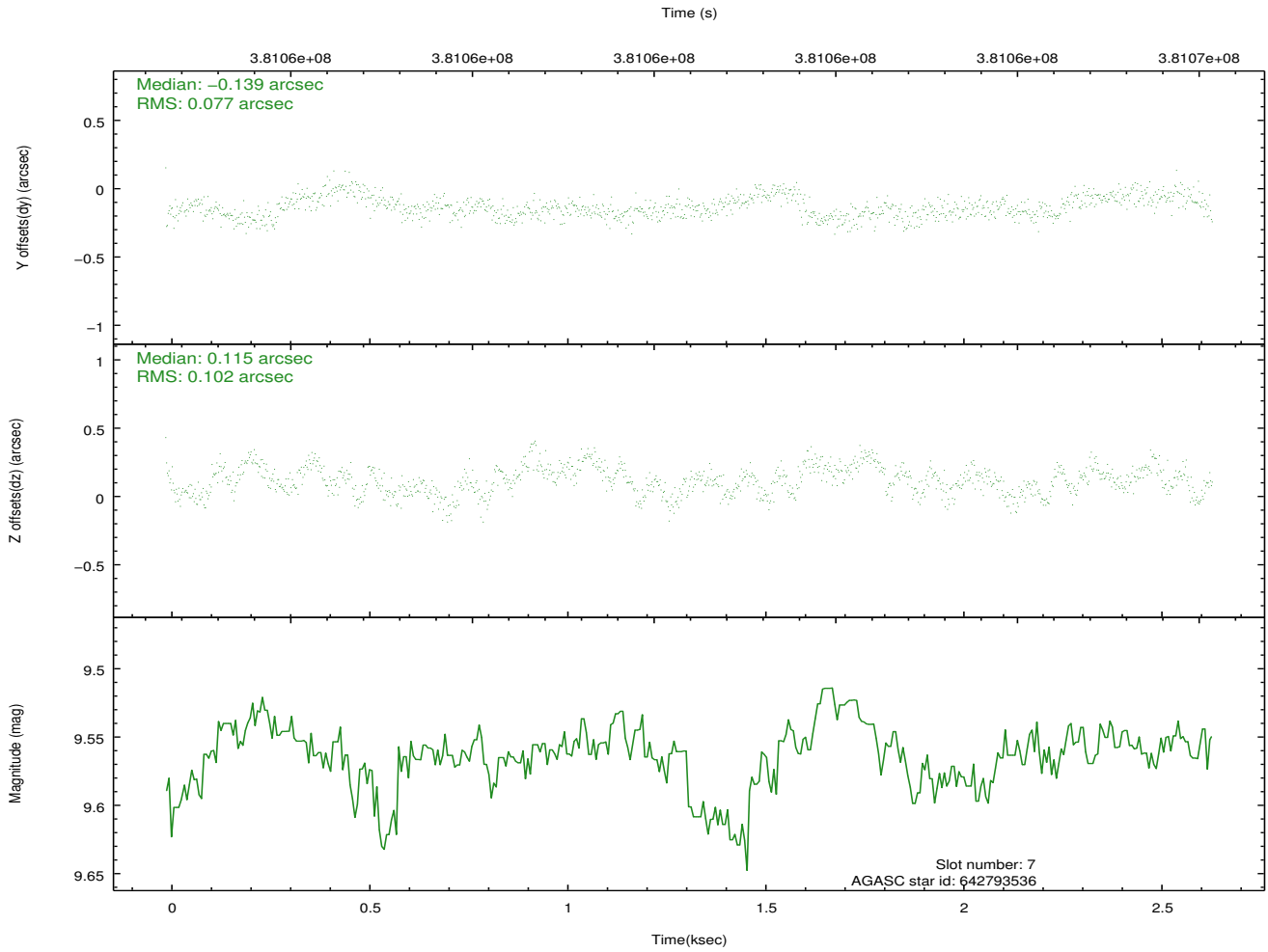
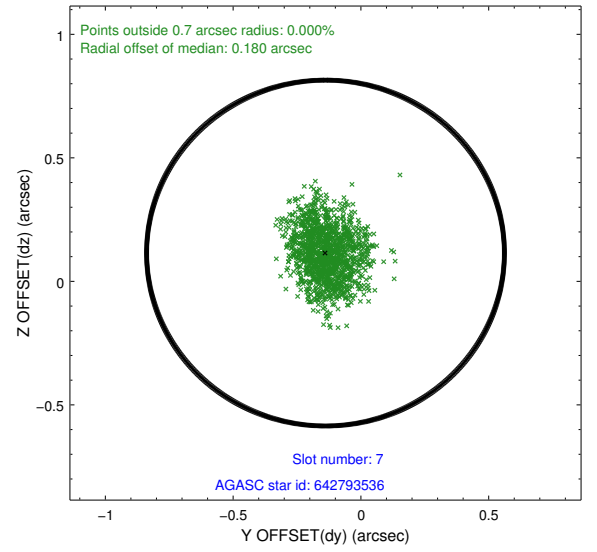
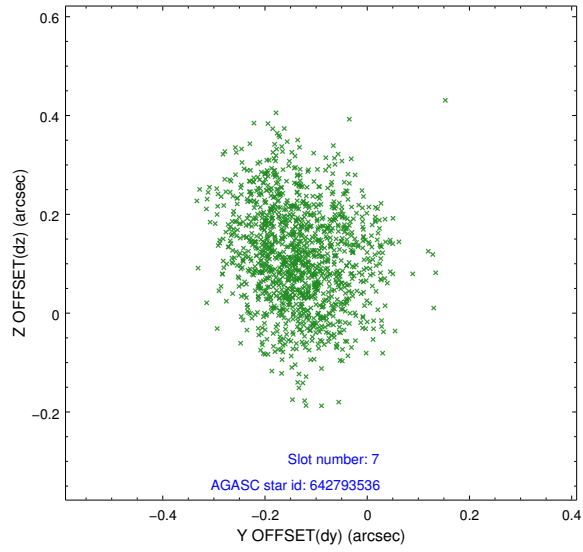
### 2.4.3 Slot 5



## 2.4.4 Slot 6

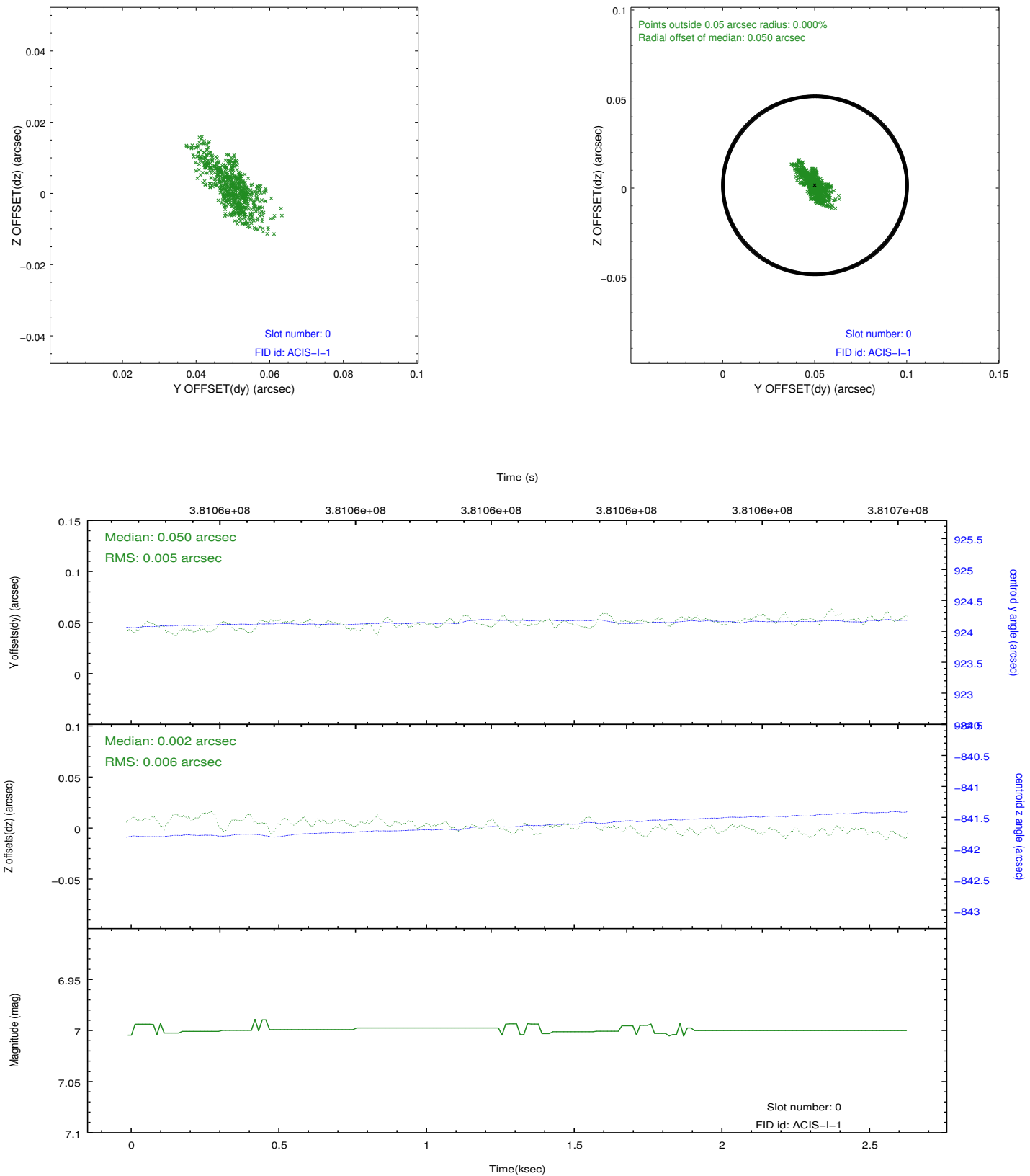


## 2.4.5 Slot 7

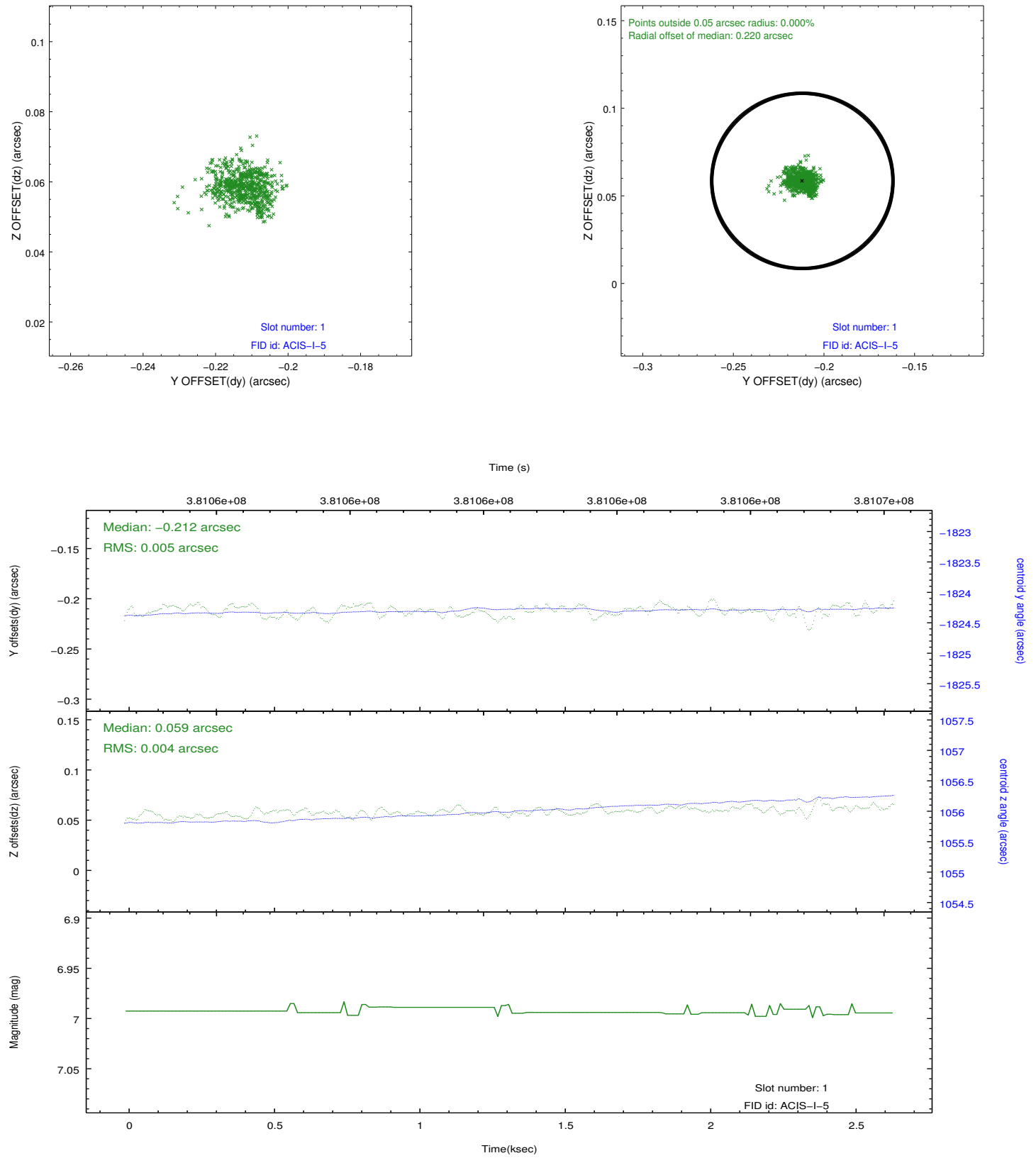


## 2.5 FID Slots

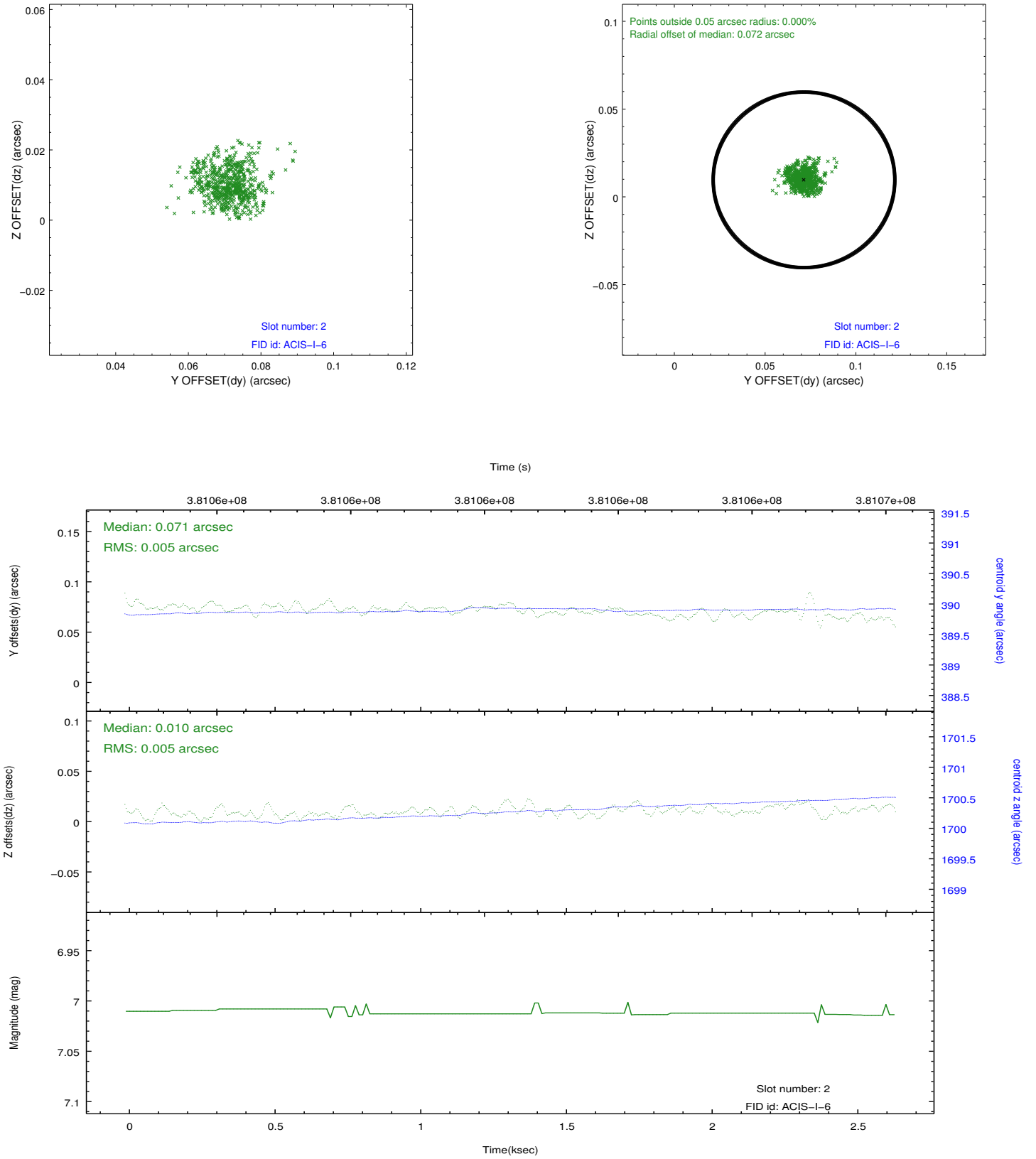
### 2.5.1 Slot 0



## 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)	2012.06.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.6350000202656

### A.2 Comments