

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 13326 - L2 Version 2  
Chandra X-Ray Center

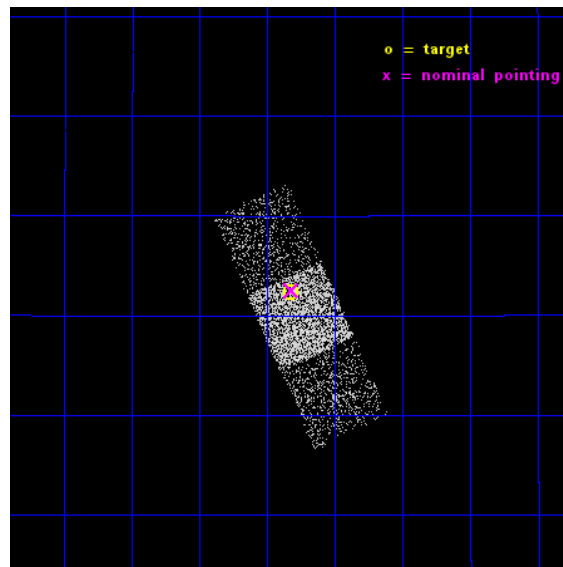
L2 Processing Date : Nov 29 2014

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# 1 Front

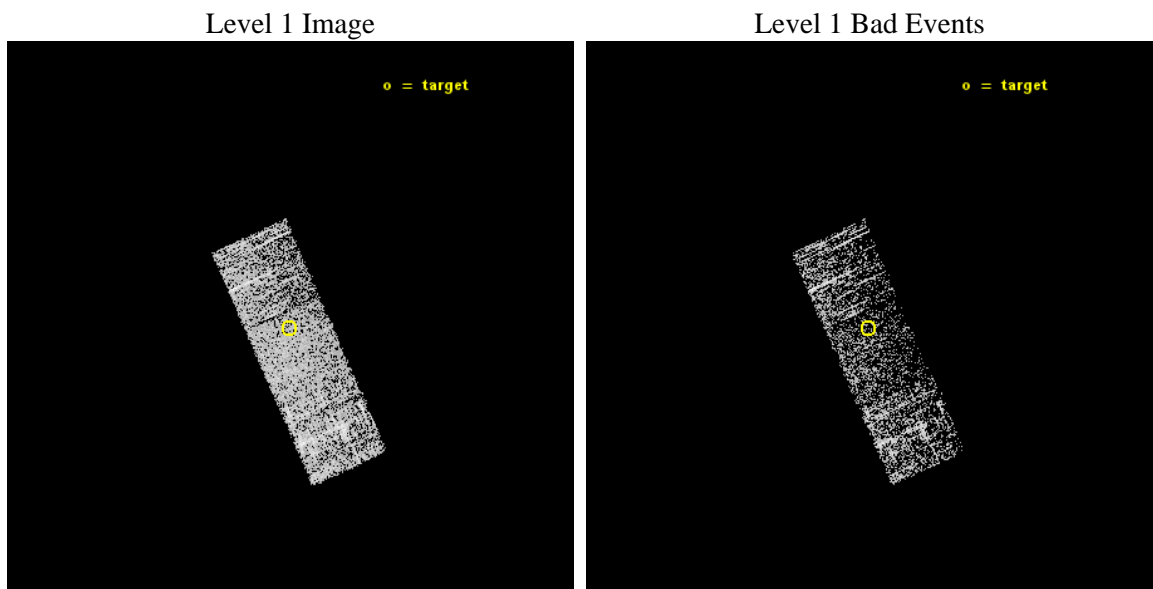
seq_num	702533	Sequence number
obs_id	13326	Observation id
title	A Large, Economical Snapshot Survey of the Most-Luminous Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1034+1912	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	158.582083	Observer's specified target RA [deg]
dec_targ	19.206139	Observer's specified target Dec [deg]
ra_nom	158.5802379054	Nominal RA [deg]
dec_nom	19.208717380201	Nominal Dec [deg]
roll_nom	65.593803307462	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1581.0000121593	Sum of GTIs [s]
livetime	1560.3430830852	Livetime [s]
ontime6	1581.0000121593	Sum of GTIs [s]
ontime7	1581.0000121593	Sum of GTIs [s]
ontime8	1581.0000121593	Sum of GTIs [s]
l2events	5941	Number of level 2 events



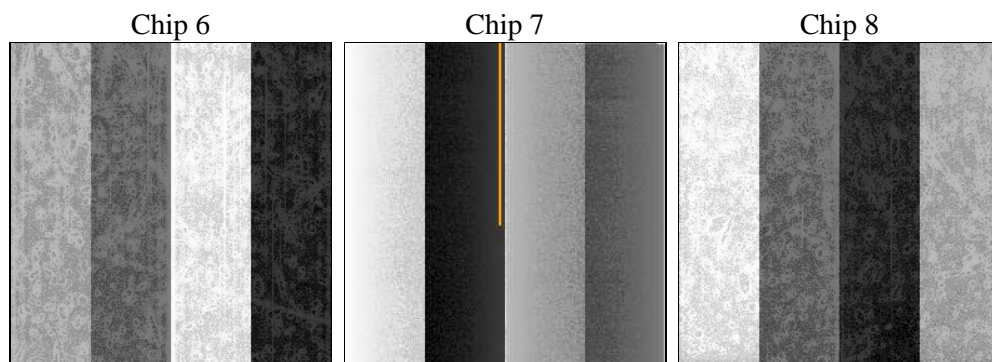
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	1500.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	1581.0000121593	Sum of GTIs [s]
caldsver	4.6.4	&#160	ontime6	1581.0000121593	Sum of GTIs [s]
date	2014-11-29T06:55:50	Date and time of file creation	ontime7	1581.0000121593	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	1581.0000121593	Sum of GTIs [s]
			l1events	27832	Number of level 1 events

### 2.1.4 Events

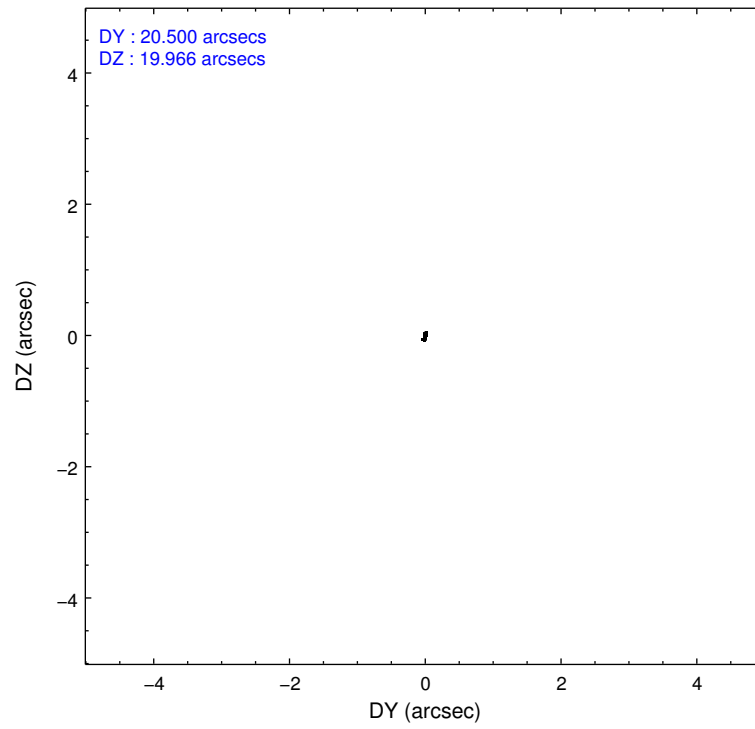
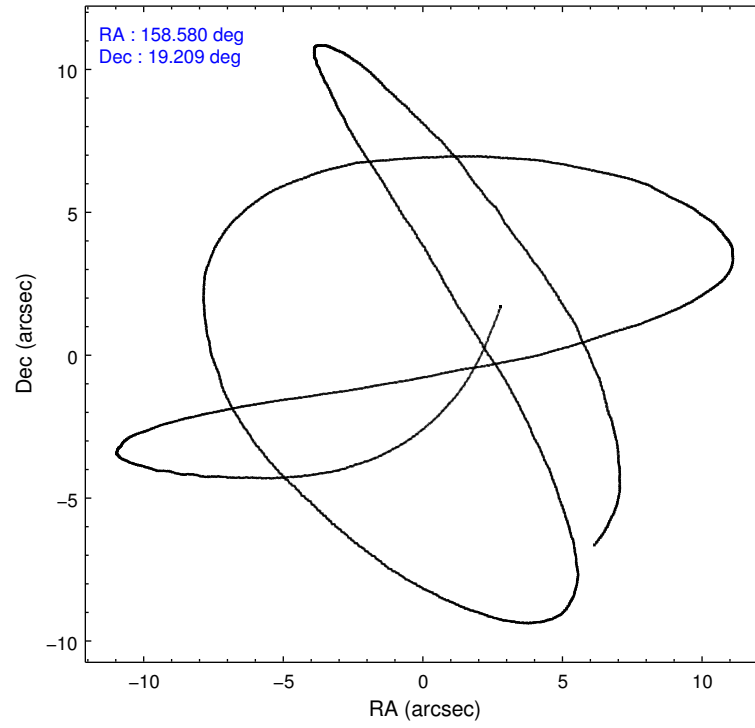
	ccd 6	ccd 7	ccd 8
level 1 events	8026	9025	10781
rejected events	7087	4697	7785
rejected %	88%	52%	72%

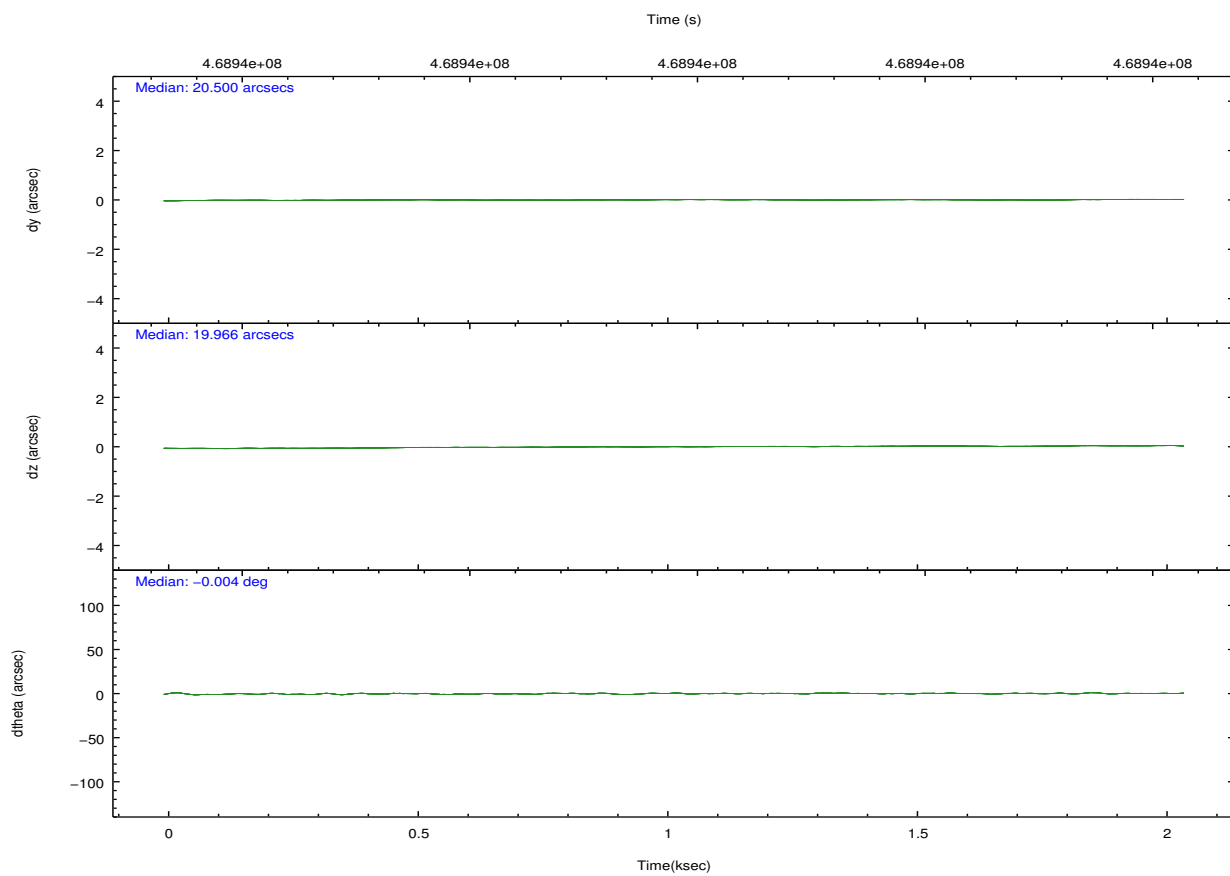
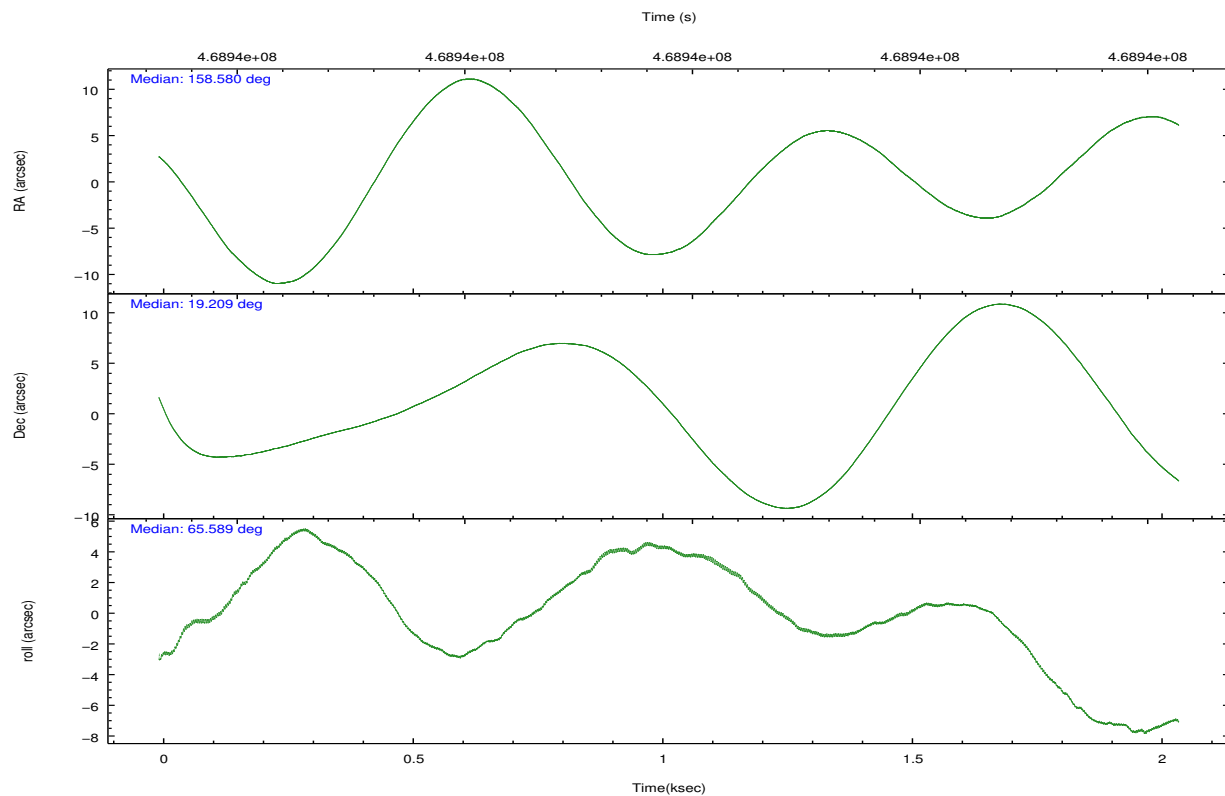
	ccd 6	ccd 7	ccd 8
grade 0 events	346	446	824
	4%	4%	7%
grade 1 events	4	13	8
	0%	0%	0%
grade 2 events	190	852	645
	2%	9%	5%
grade 3 events	112	396	346
	1%	4%	3%
grade 4 events	99	399	325
	1%	4%	3%
grade 5 events	383	986	549
	4%	10%	5%
grade 6 events	197	2242	861
	2%	24%	7%
grade 7 events	6695	3691	7223
	83%	40%	66%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	158.583549	158.5802379054033	Subarray requested	NONE	NONE
[deg] Pointing Dec	19.181499	19.20871738020132	Alternating exposures requested	N	N
[deg] Pointing Roll	65.436079	65.59380330746212	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	468935958.184000	468934959.53924			
Observation start date	2012-11-10T11:58:11	2012-11-10T11:42:39			
[s] Observation end time (MET)	468937458.184000	468938359.46443			
Observation end date	2012-11-10T12:23:11	2012-11-10T12:39:19			
Read mode	TIMED	TIMED			

## 2.3 Aspect





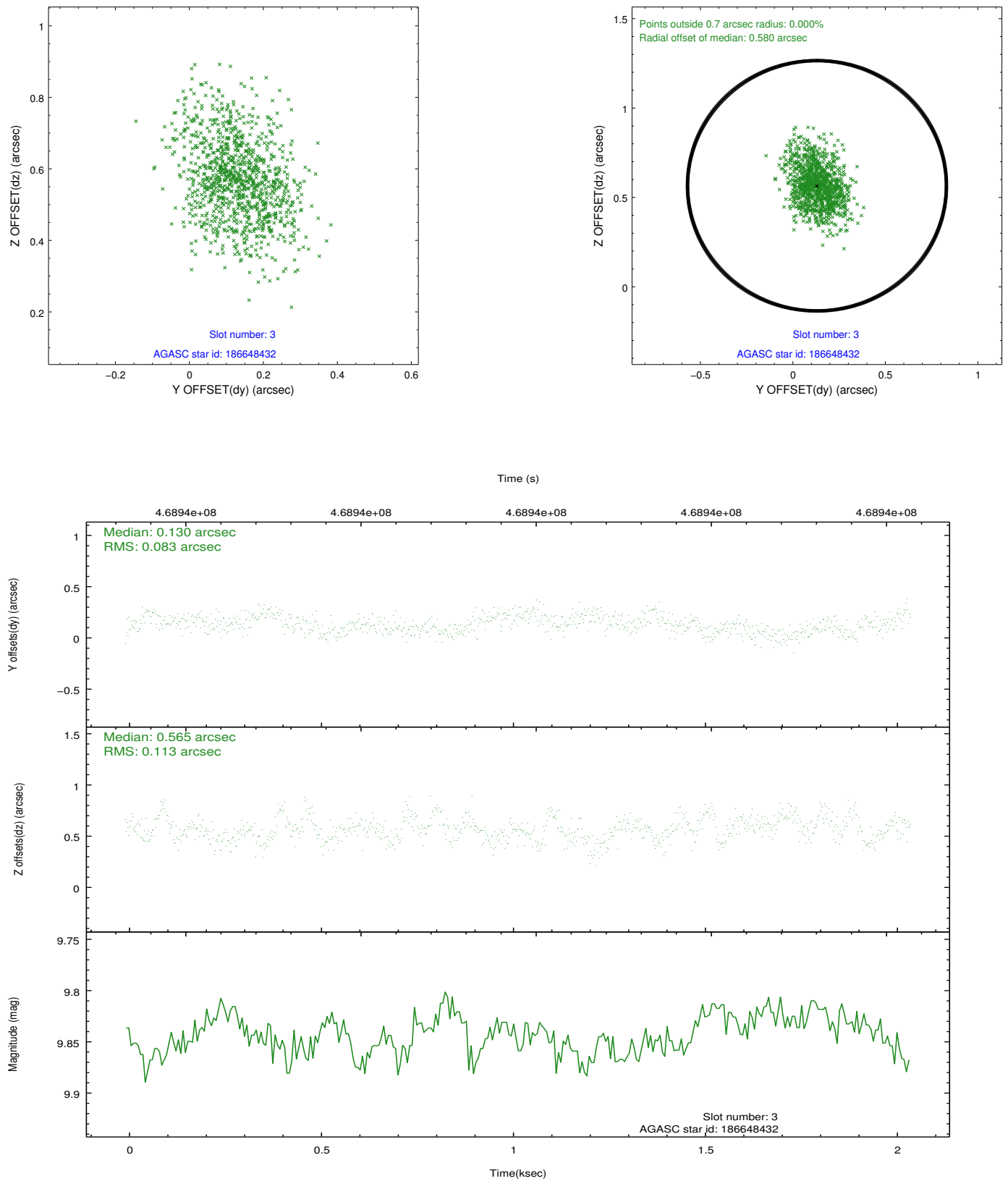
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	499	-0.128	-0.023	0.006	0.010	0.000000	0.000000	-773.75	-1741.44
1	FID		ACIS-S-4	7.01	499	0.247	0.068	0.005	0.009	0.000000	0.000000	2138.43	163.80
2	FID		ACIS-S-5	7.04	499	-0.149	-0.037	0.006	0.010	0.000000	0.000000	-1822.52	161.01
3	GUIDE	used	186648432	9.84	997	0.130	0.565	0.147	0.249	159.083690	18.919042	-148.51	-1940.50
4	GUIDE	used	186648824	8.76	998	0.333	0.339	0.105	0.168	159.050038	18.653059	-1066.30	-2239.12
5	GUIDE	used	186654424	8.44	998	-0.231	-0.482	0.088	0.139	158.272396	19.566483	821.50	1534.08
6	GUIDE	used	186654504	8.97	996	-0.050	0.004	0.107	0.167	158.871590	19.497173	1441.50	-415.19
7	GUIDE	used	186654608	9.44	989	-0.189	-0.442	0.132	0.210	158.215229	19.988447	2126.88	2340.70

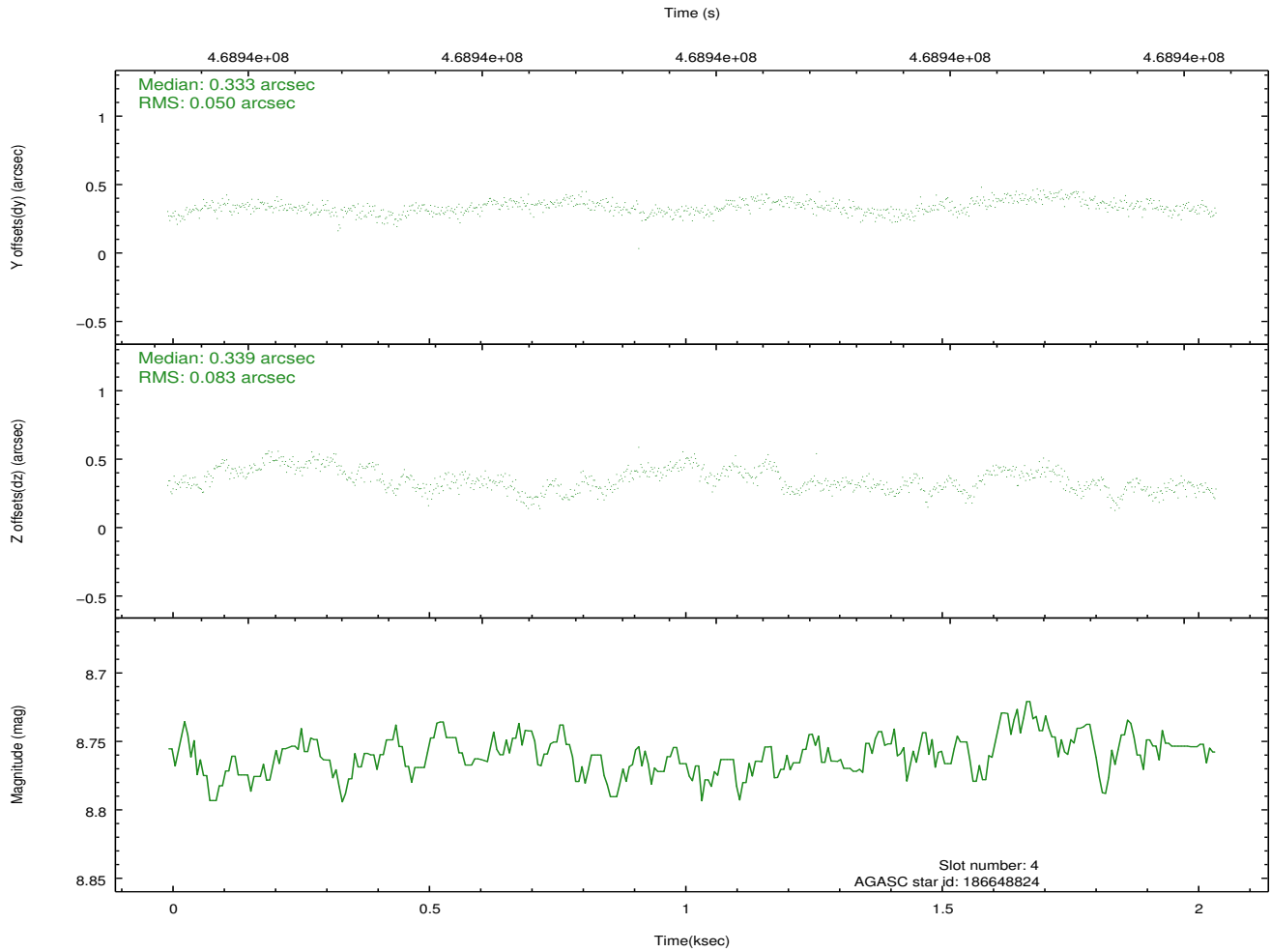
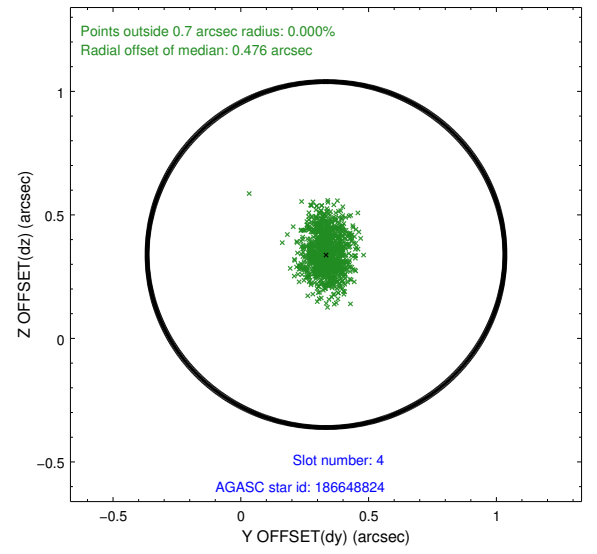
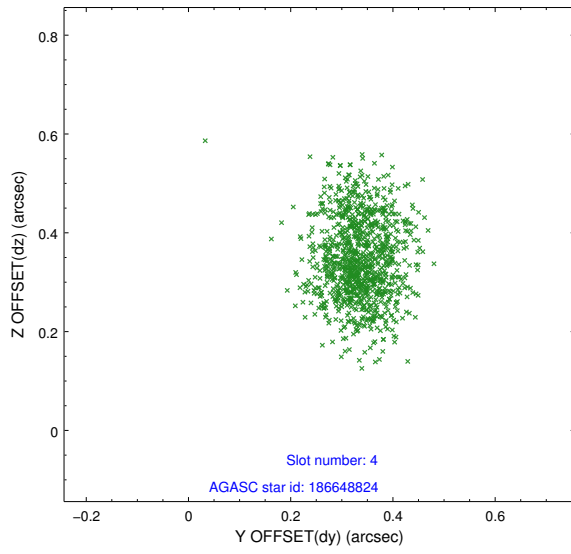


## 2.4 Star Slots

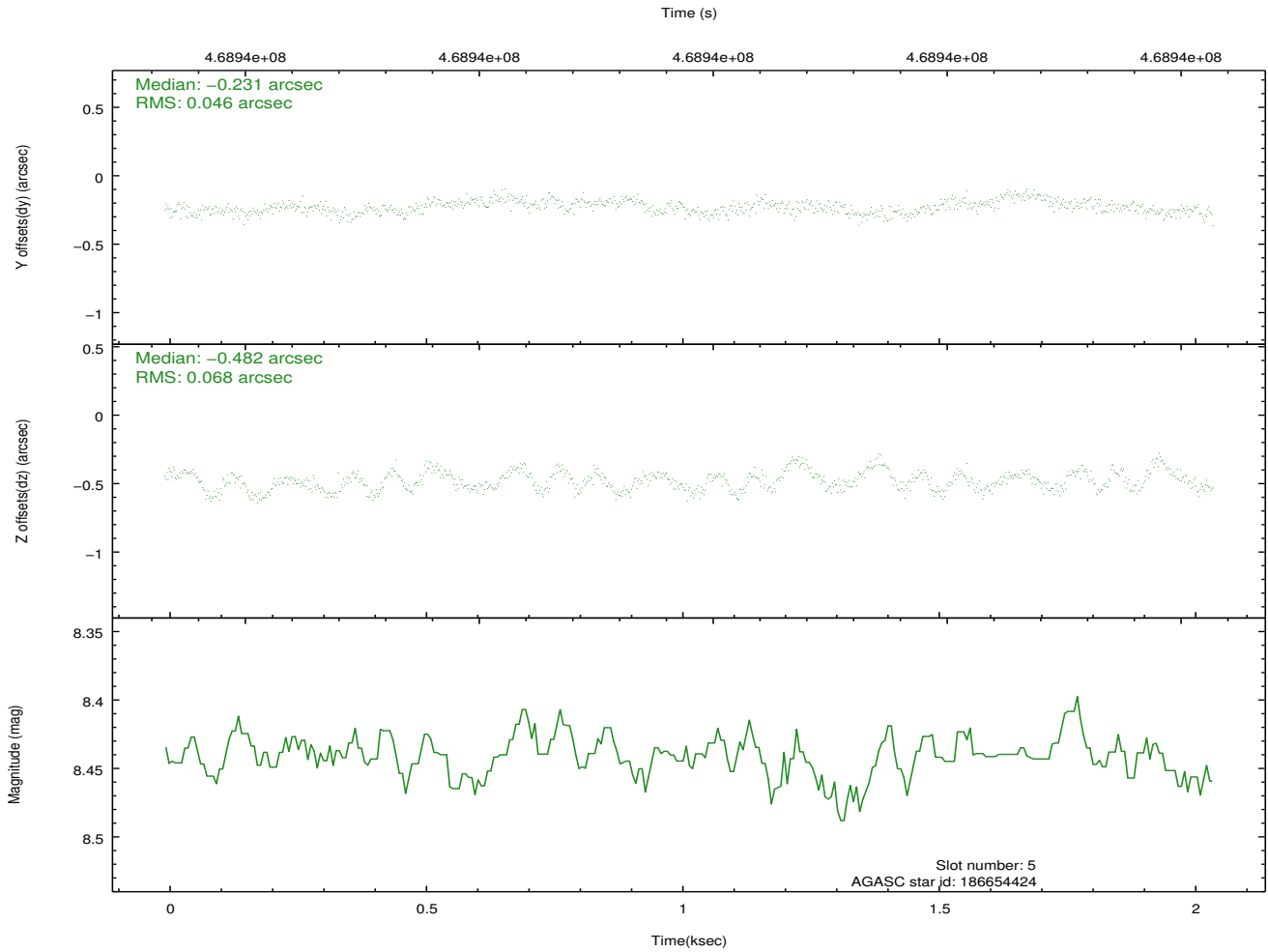
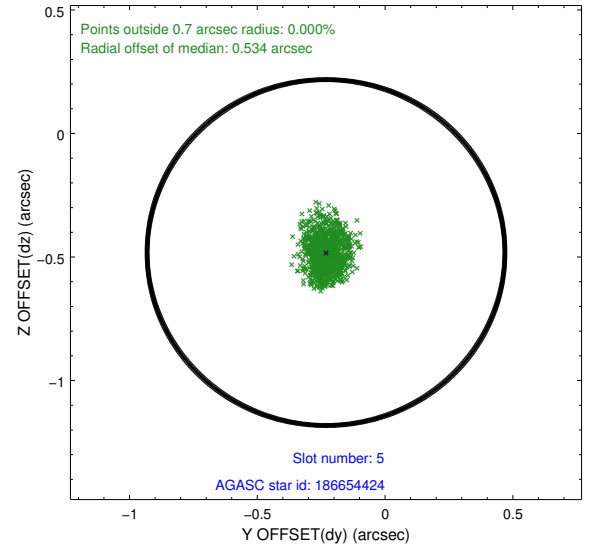
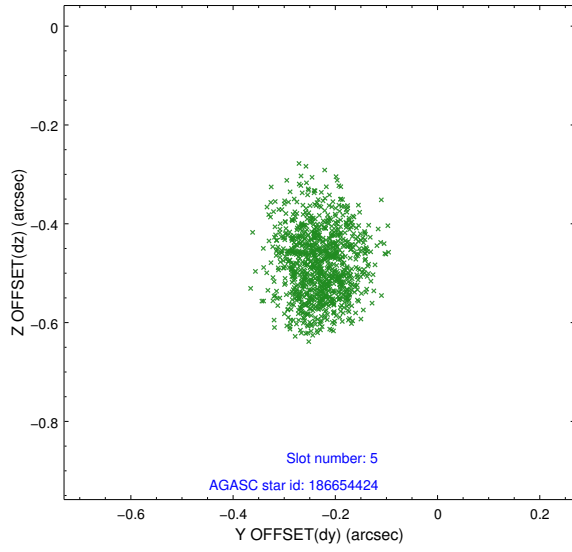
### 2.4.1 Slot 3



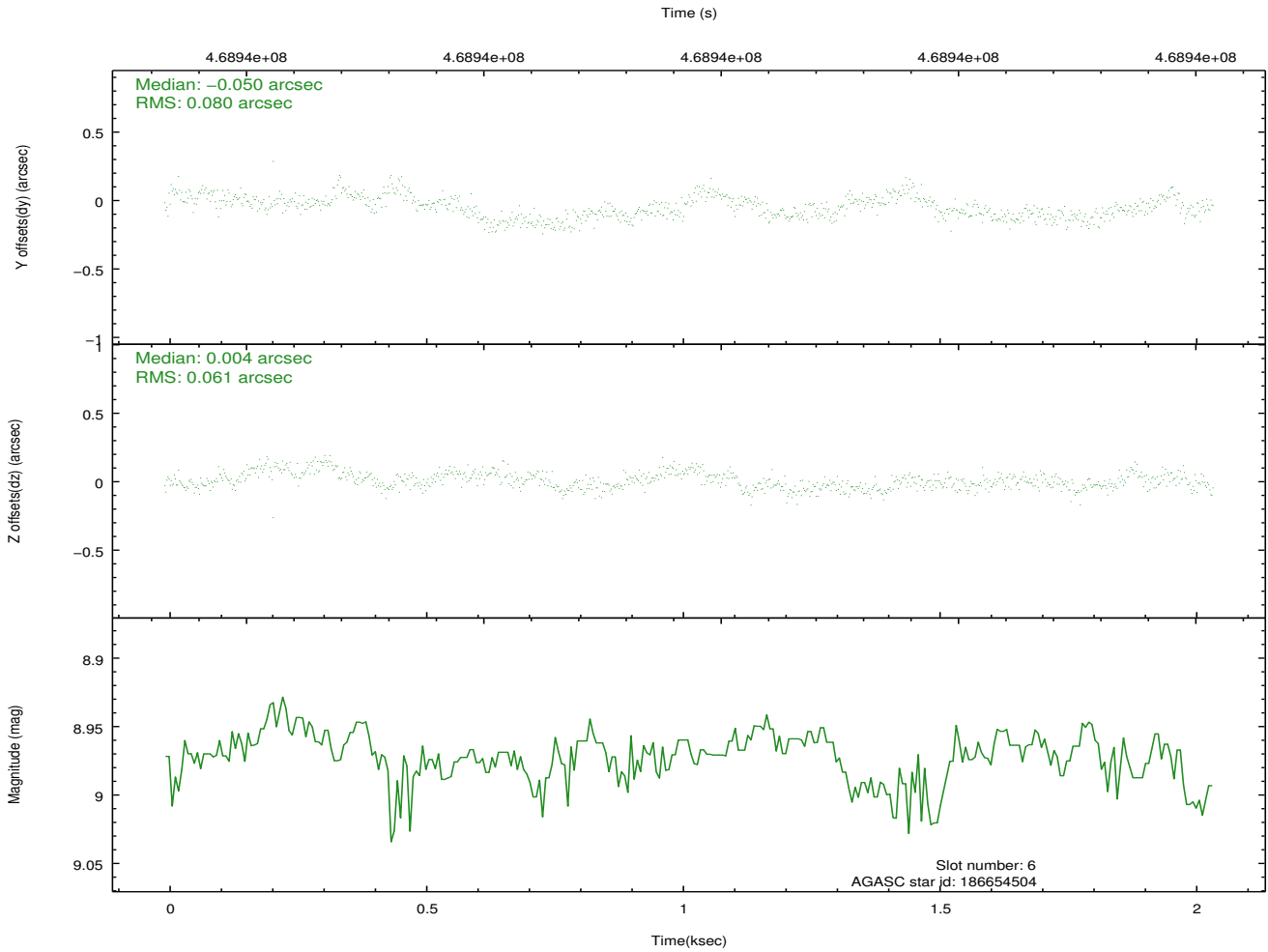
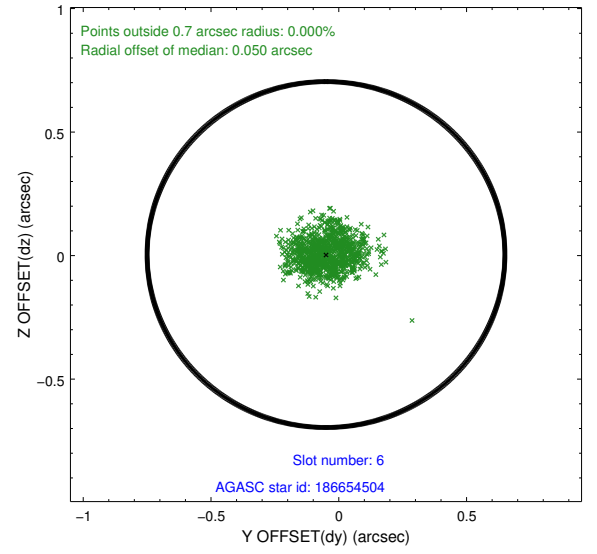
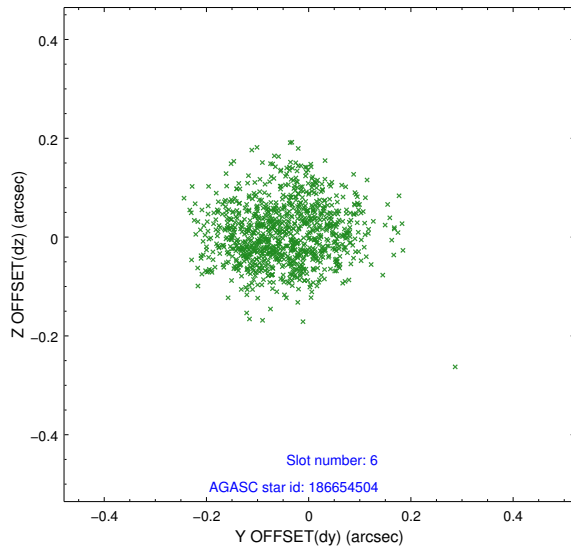
## 2.4.2 Slot 4



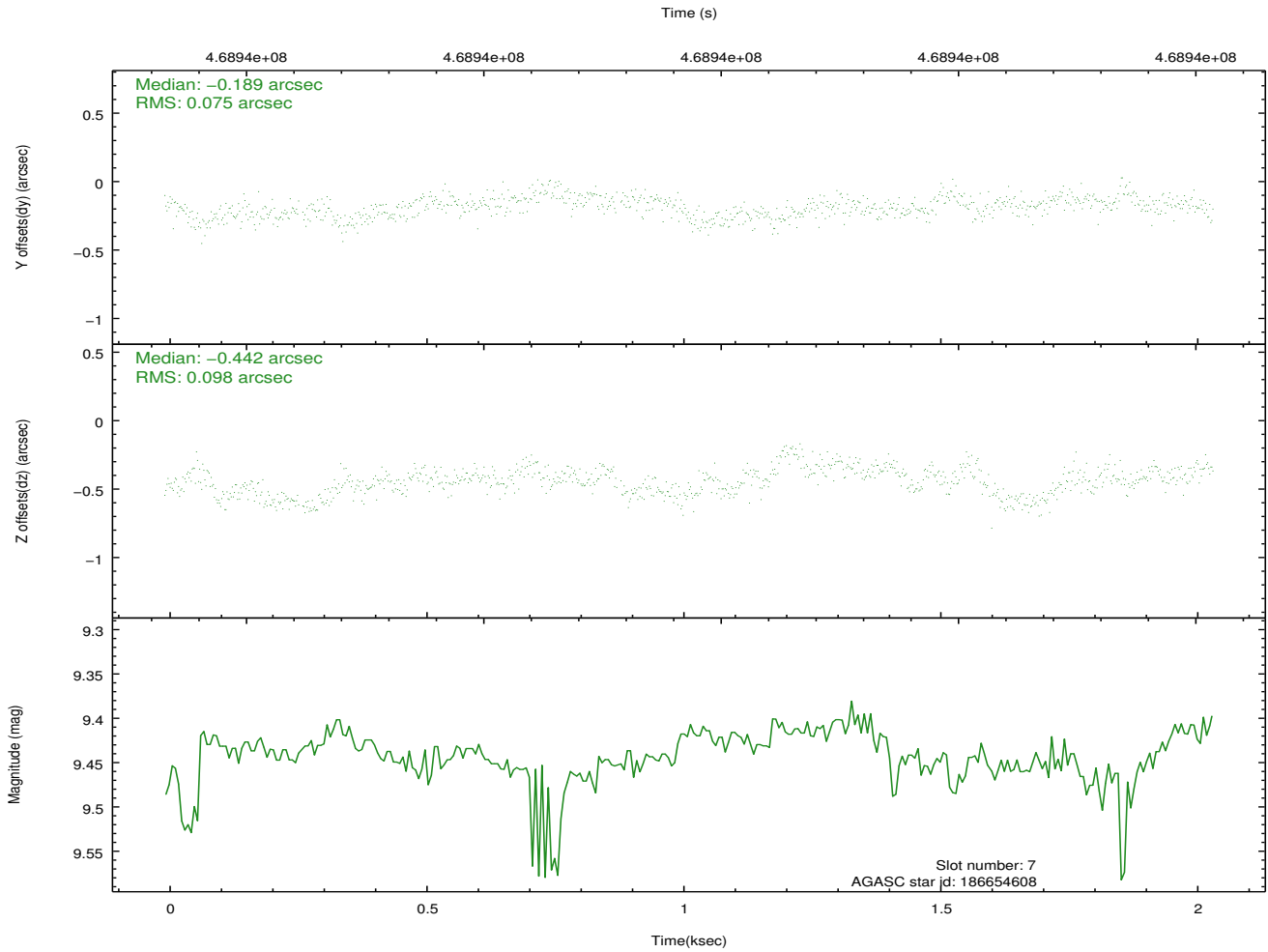
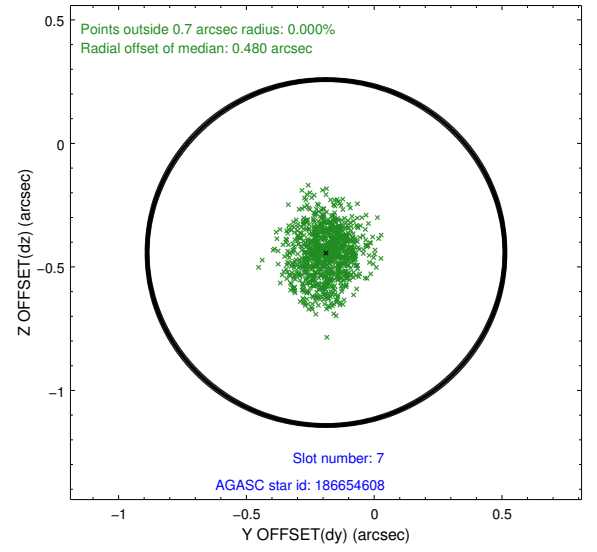
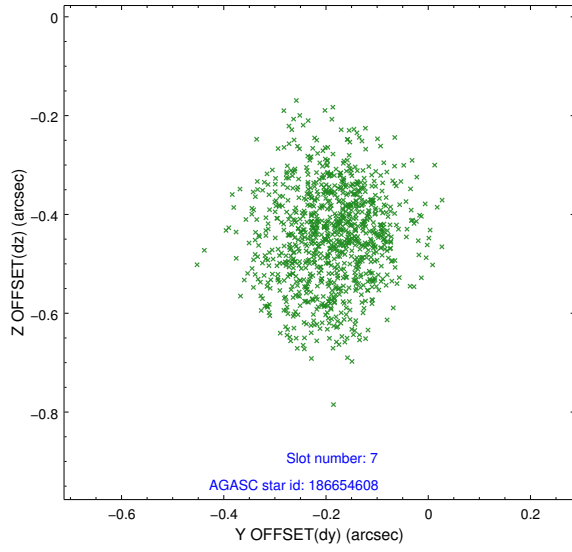
### 2.4.3 Slot 5



## 2.4.4 Slot 6

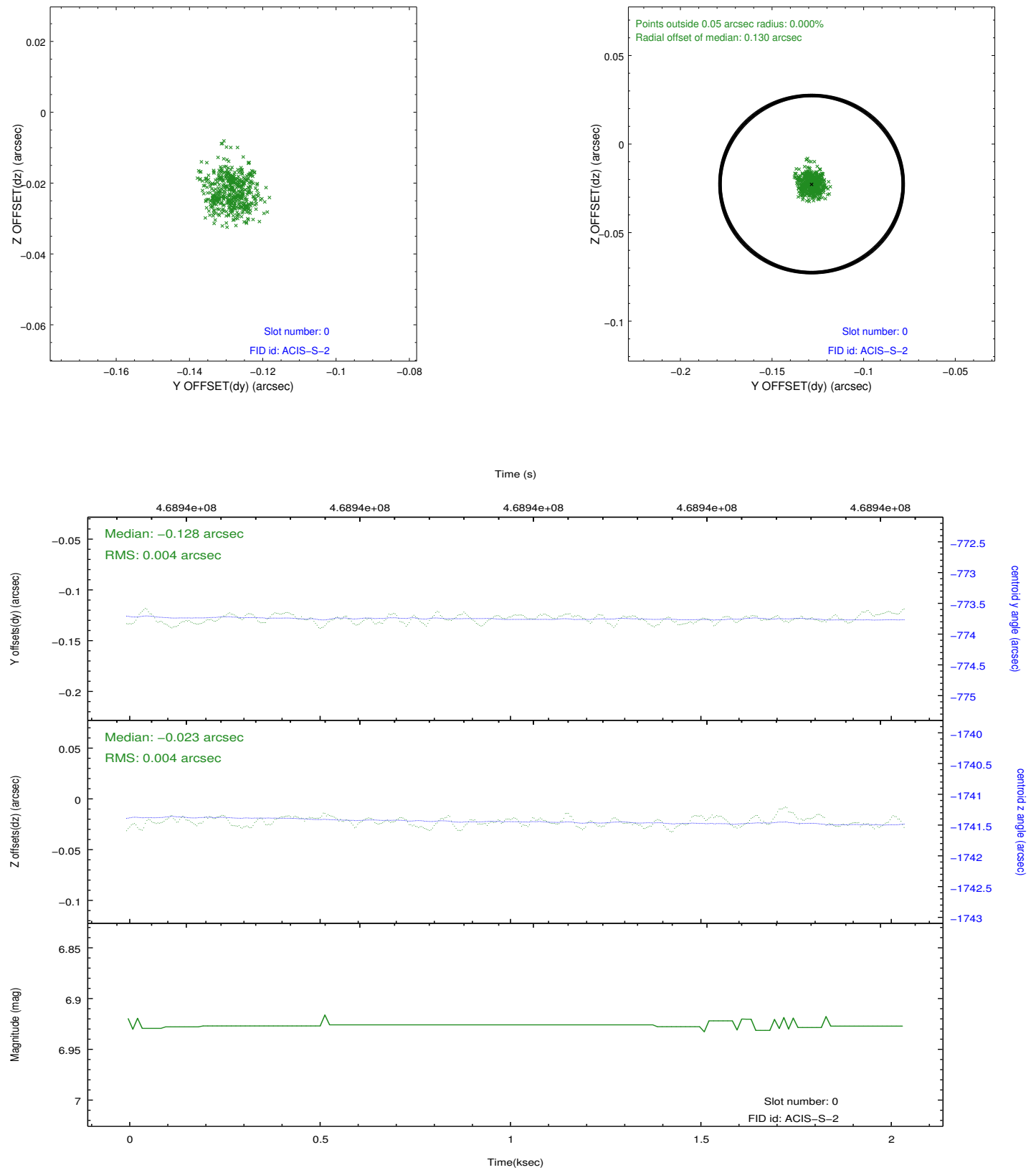


## 2.4.5 Slot 7

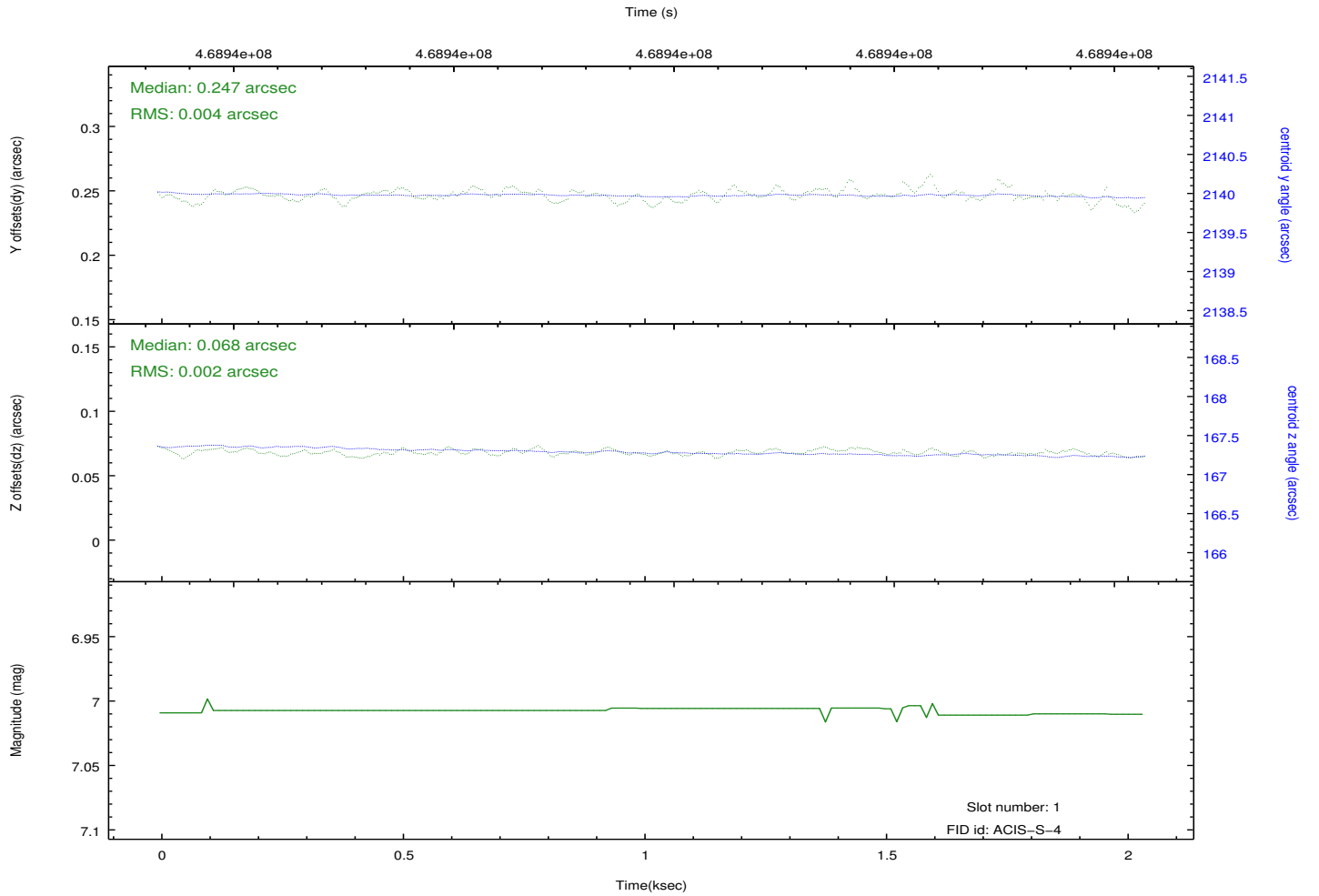
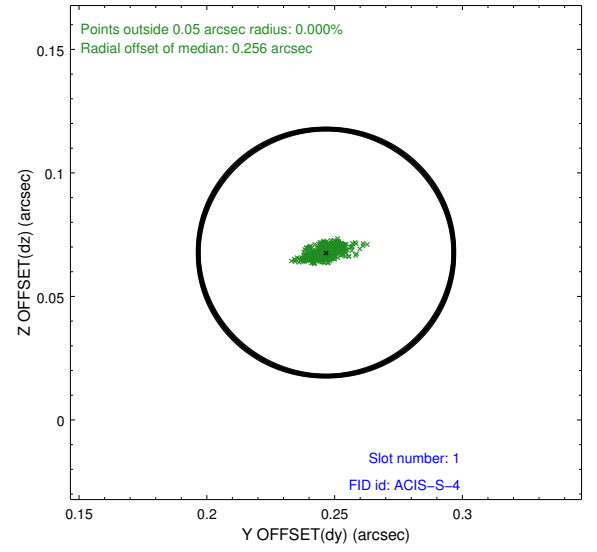
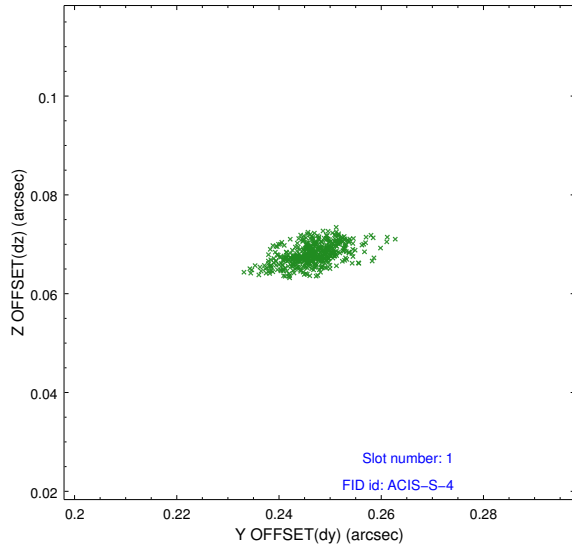


## 2.5 FID Slots

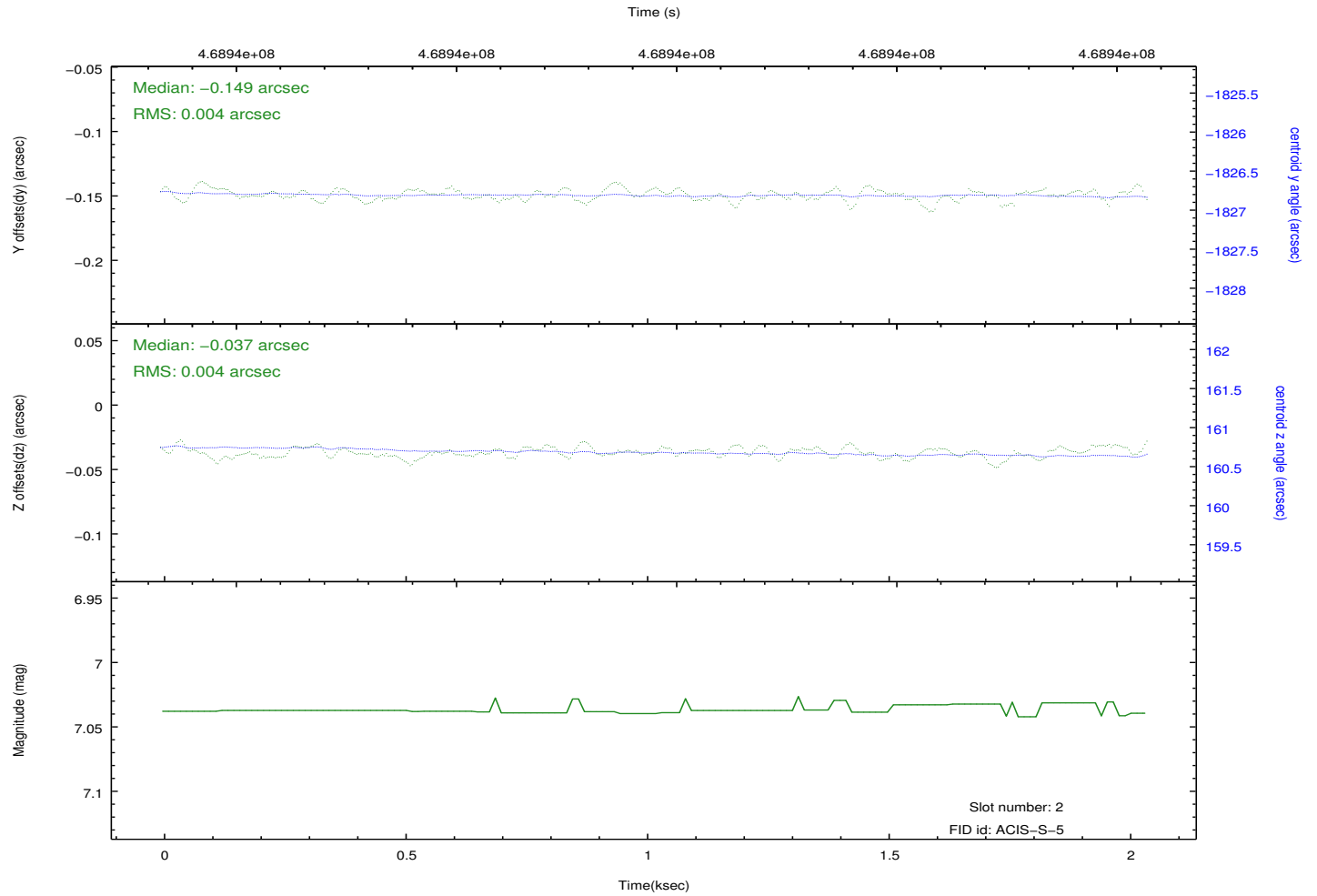
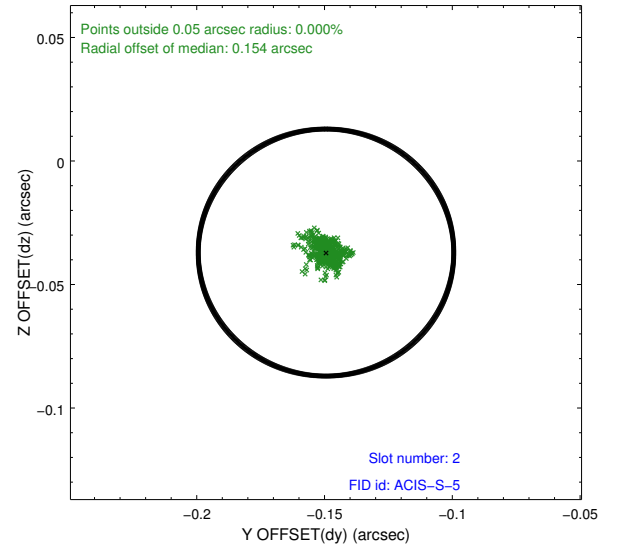
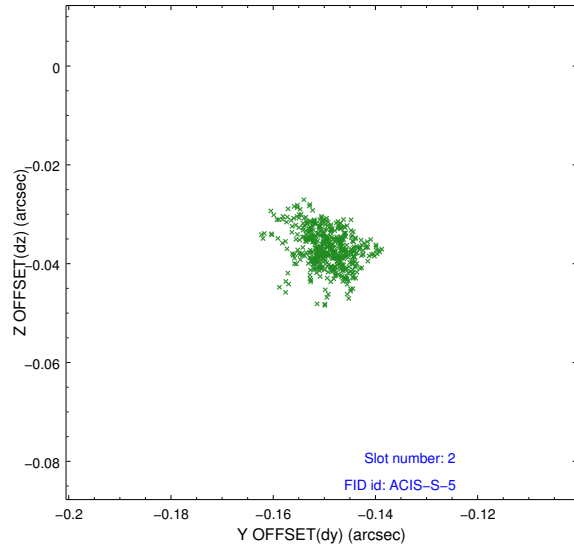
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.5810000121593

## A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.