

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 227 - L2 Version 5  
Chandra X-Ray Center

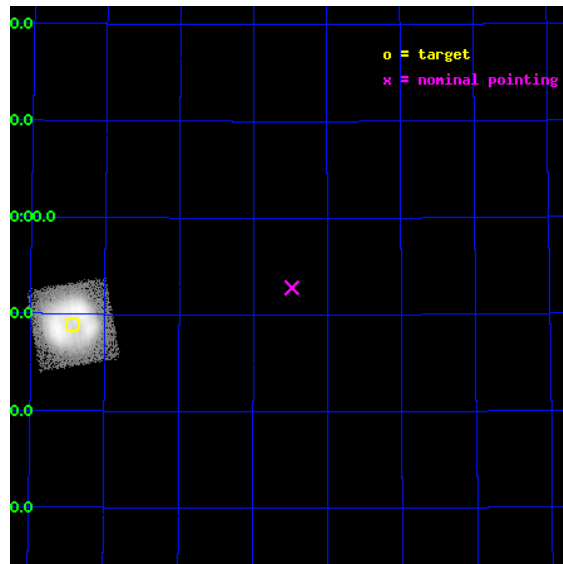
L2 Processing Date : Aug 23 2012

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# 1 Front

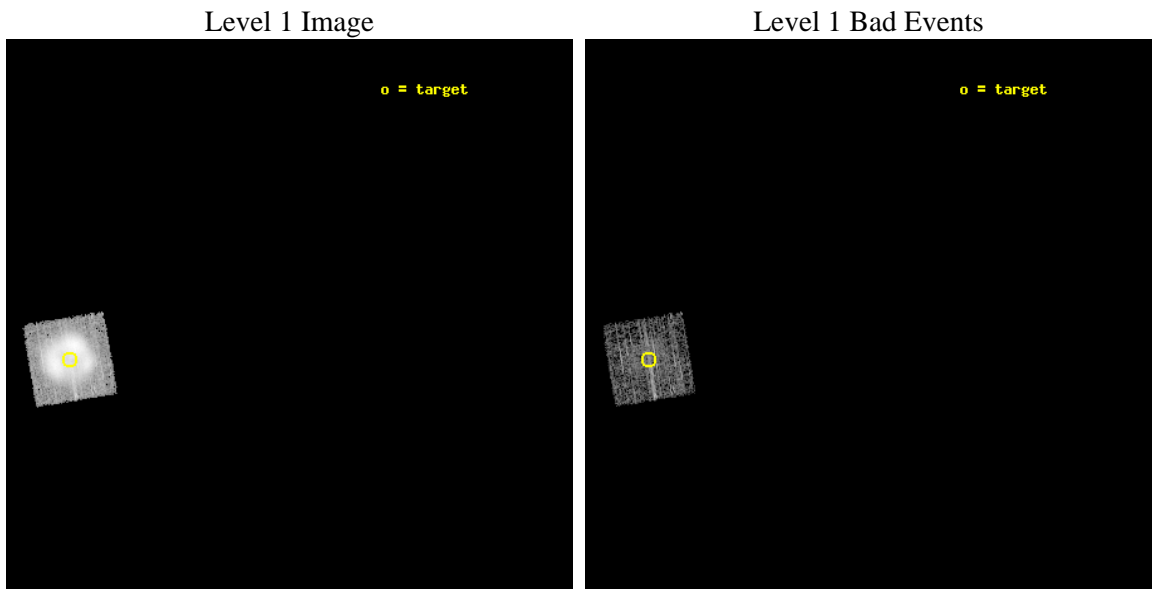
seq_num	590095	Sequence number
obs_id	227	Observation id
title	ACIS CHIP RESPONSE TO CAS A, APR. 99	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [Chip S0, T=120, Offsets=23,0,0]	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.8575	Observer's specified target RA [deg]
dec_targ	58.814833	Observer's specified target Dec [deg]
ra_nom	350.11948826545	Nominal RA [deg]
dec_nom	58.88025695825	Nominal Dec [deg]
roll_nom	350.44772417542	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1033.6000009477	Sum of GTIs [s]
livetime	1020.5119353765	Livetime [s]
ontime4	1033.6000009477	Sum of GTIs [s]
ontime5	1033.6000009477	Sum of GTIs [s]
ontime6	1033.6000009477	Sum of GTIs [s]
ontime7	1033.6000009477	Sum of GTIs [s]
ontime8	1033.6000009477	Sum of GTIs [s]
ontime9	1033.6000009477	Sum of GTIs [s]
l2events	130871	Number of level 2 events



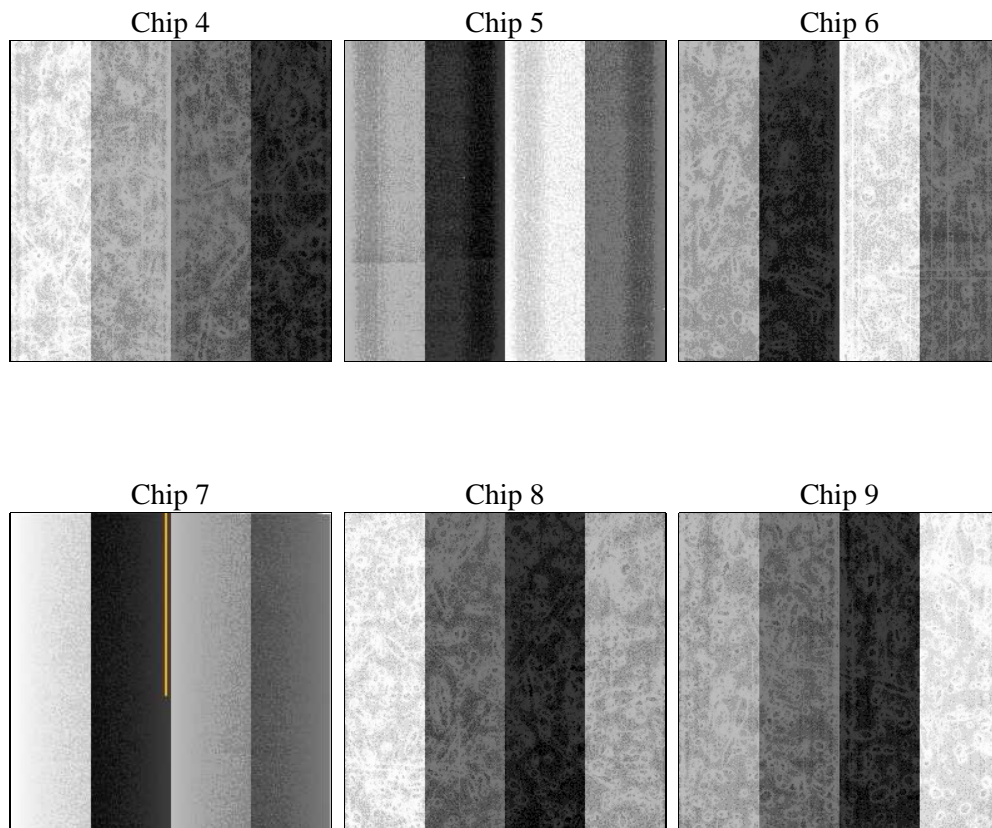
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1033.6000009477	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime4	1033.6000009477	Sum of GTIs [s]
date	2012-08-23T13:51:39	Date and time of file creation	ontime5	1033.6000009477	Sum of GTIs [s]
revision	5	Processing version of data	ontime6	1033.6000009477	Sum of GTIs [s]
			ontime7	1033.6000009477	Sum of GTIs [s]
			ontime8	1033.6000009477	Sum of GTIs [s]
			ontime9	1033.6000009477	Sum of GTIs [s]
			l1events	183823	Number of level 1 events

### 2.1.4 Events

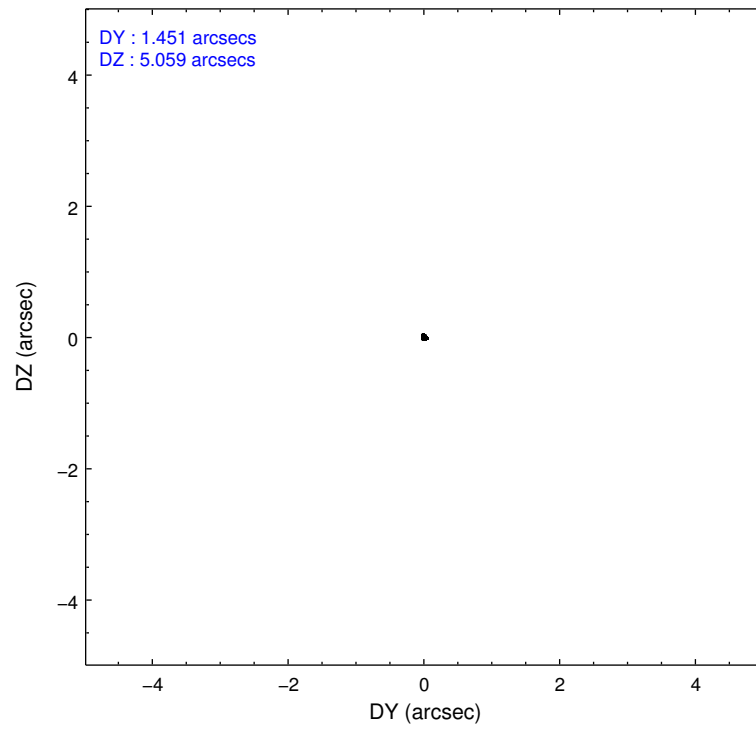
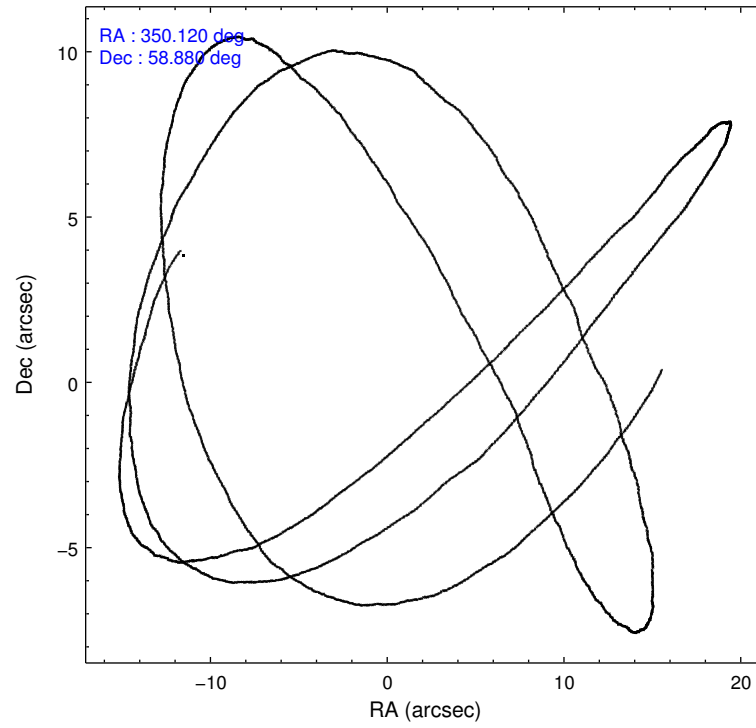
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	183823	0	0	0	0	0
rejected events	38933	0	0	0	0	0
rejected %	21%	0%	0%	0%	0%	0%

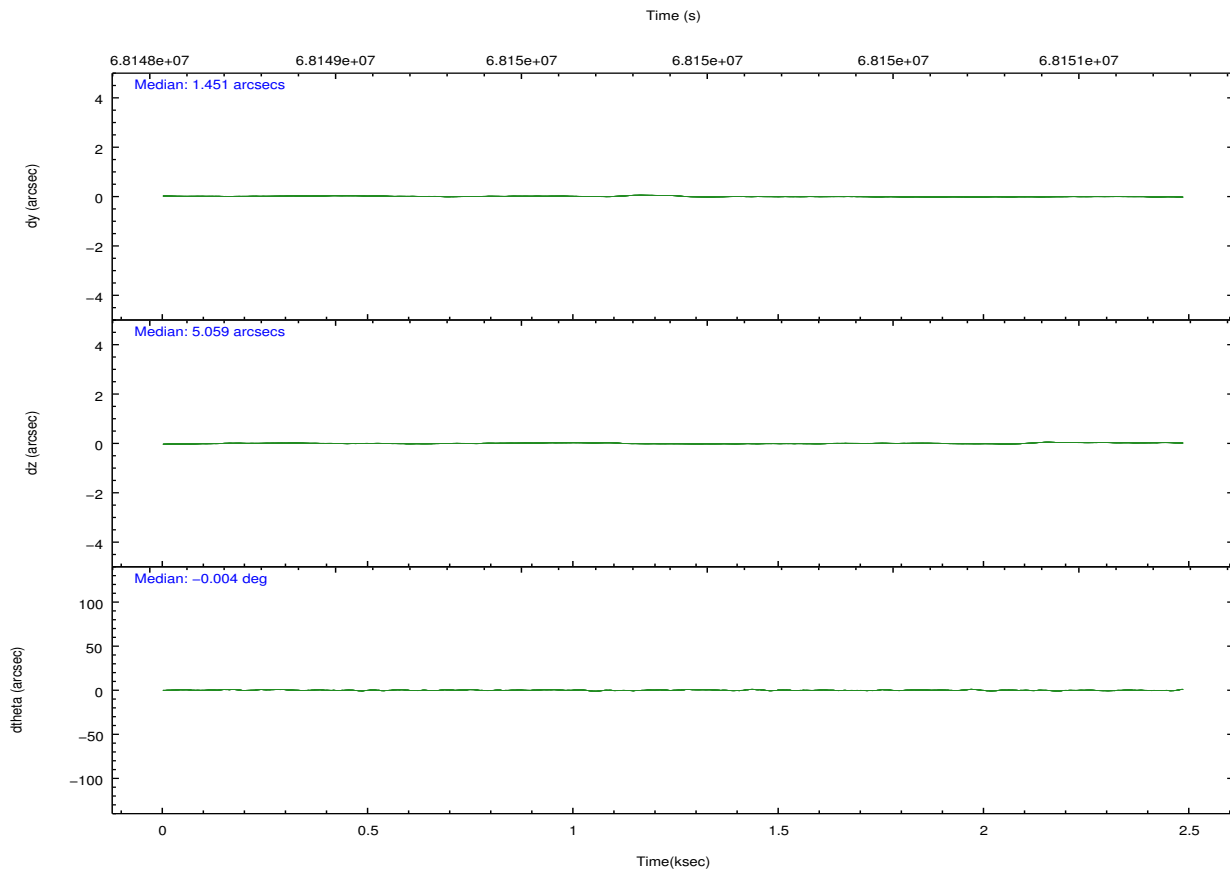
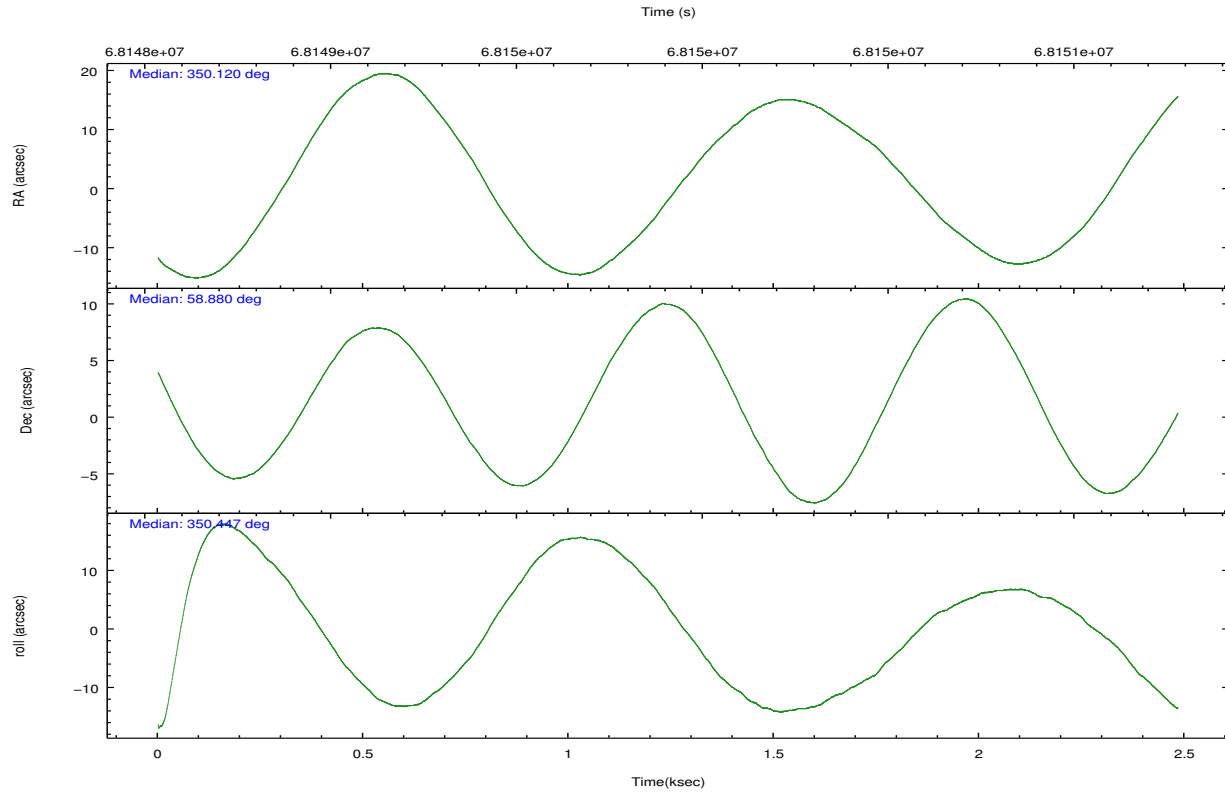
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	119427	0	0	0	0	0
	64%	0%	0%	0%	0%	0%
grade 1 events	970	0	0	0	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	14999	0	0	0	0	0
	8%	0%	0%	0%	0%	0%
grade 3 events	4231	0	0	0	0	0
	2%	0%	0%	0%	0%	0%
grade 4 events	4259	0	0	0	0	0
	2%	0%	0%	0%	0%	0%
grade 5 events	1133	0	0	0	0	0
	0%	0%	0%	0%	0%	0%
grade 6 events	2896	0	0	0	0	0
	1%	0%	0%	0%	0%	0%
grade 7 events	35908	0	0	0	0	0
	19%	0%	0%	0%	0%	0%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	350.069943	350.1194882654526	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.870809	58.88025695825035	Alternating exposures requested	N	N
[deg] Pointing Roll	350.333541	350.4477241754177	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	65750464.184000	65750464.184000			
[s] Window stop time (MET)	68256064.184000	68256064.184000			
[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)	68149150.184000	68148478.749001			
Observation start date	2000-02-28T18:18:06	2000-02-28T18:07:58			
[s] Observation end time (MET)	68151150.184000	68151284.17410401			
Observation end date	2000-02-28T18:51:26	2000-02-28T18:54:44			
Read mode	TIMED	TIMED			

## 2.3 Aspect





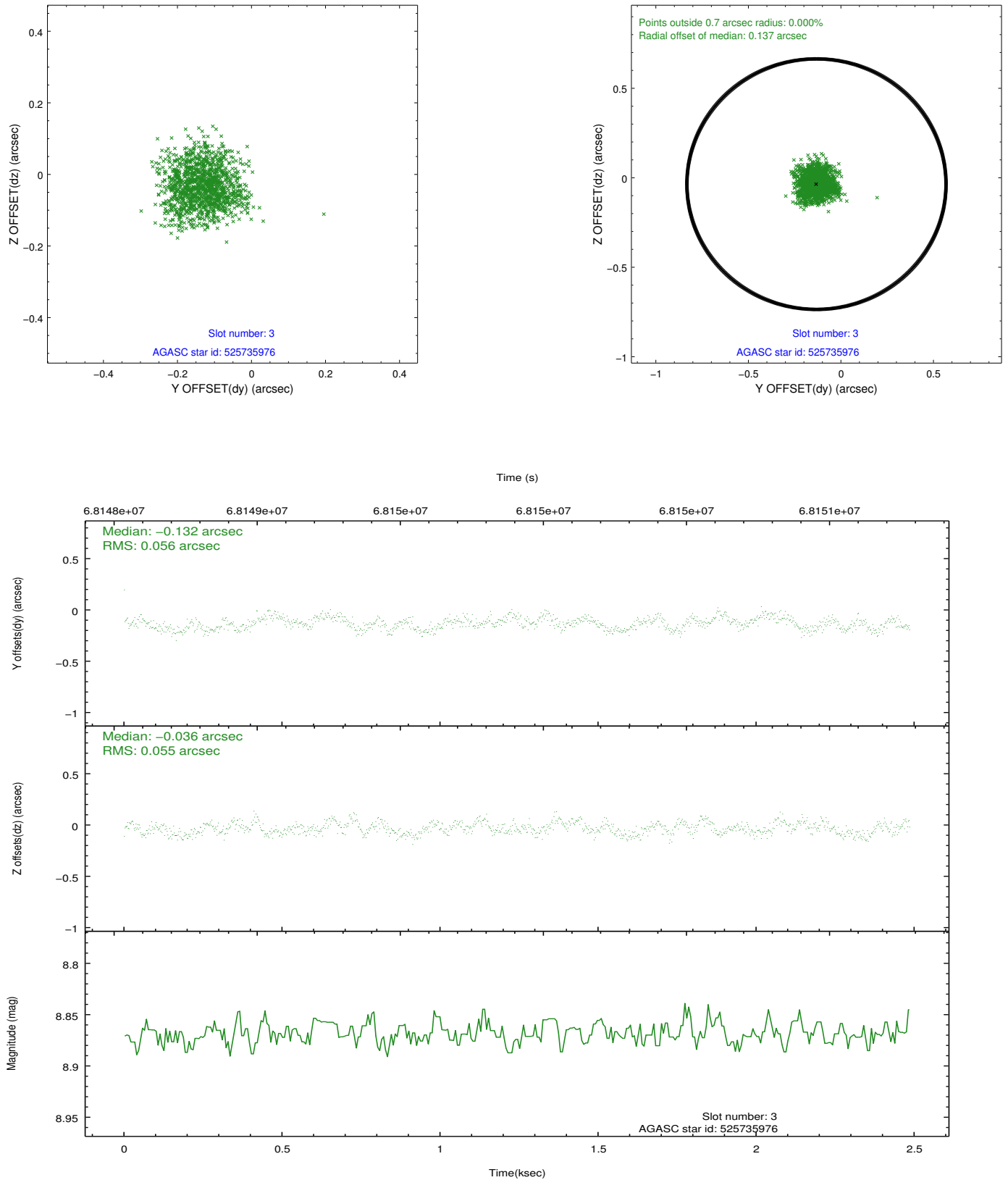
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	606	-0.033	-0.003	0.006	0.010	0.000000	0.000000	-754.09	-1726.12
1	FID	ACIS-S-4	7.20	606	0.011	0.017	0.005	0.008	0.000000	0.000000	2158.06	179.68
2	FID	ACIS-S-5	7.23	606	-0.009	-0.005	0.006	0.009	0.000000	0.000000	-1803.54	176.31
3	GUIDE	525735976	8.87	1213	-0.132	-0.036	0.085	0.128	350.142956	58.277622	494.64	-2081.50
4	GUIDE	525606352	9.48	1213	-0.096	-0.014	0.089	0.148	348.845301	59.031753	-2336.77	209.40
5	GUIDE	525736400	9.07	1211	0.041	0.049	0.076	0.126	350.974563	59.175145	1457.19	1372.06
6	GUIDE	525606576	9.46	1211	0.153	-0.069	0.173	0.242	349.543555	58.678895	-854.45	-841.21
7	GUIDE	525737880	9.76	1210	0.040	0.071	0.094	0.151	351.070641	59.208299	1610.90	1520.82

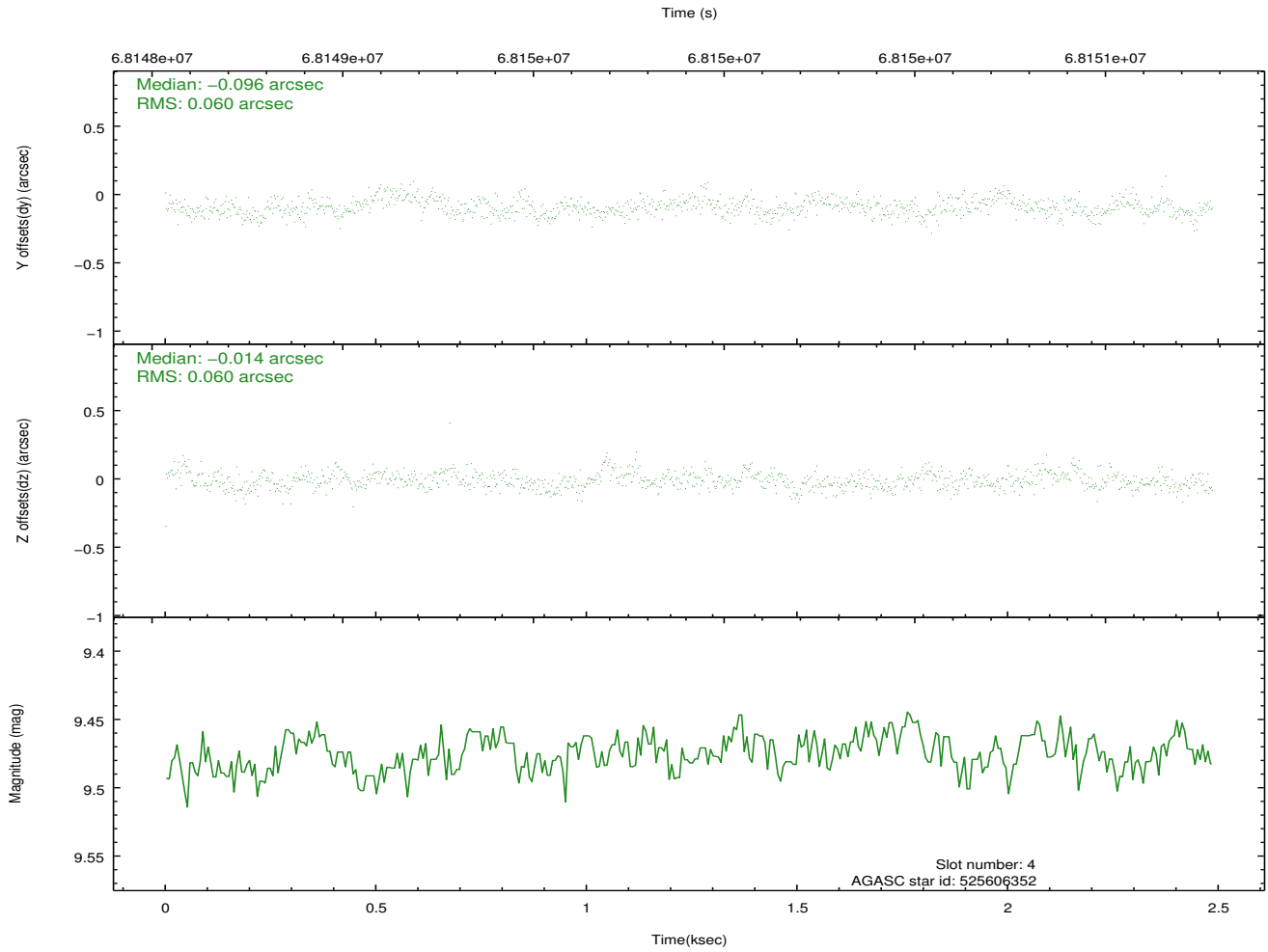
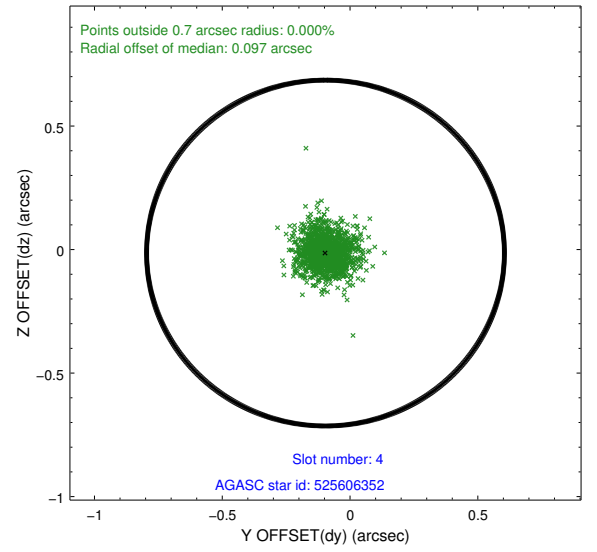
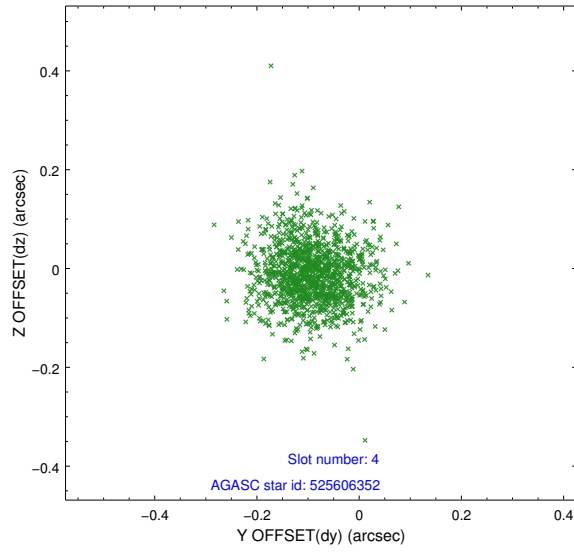


## 2.4 Star Slots

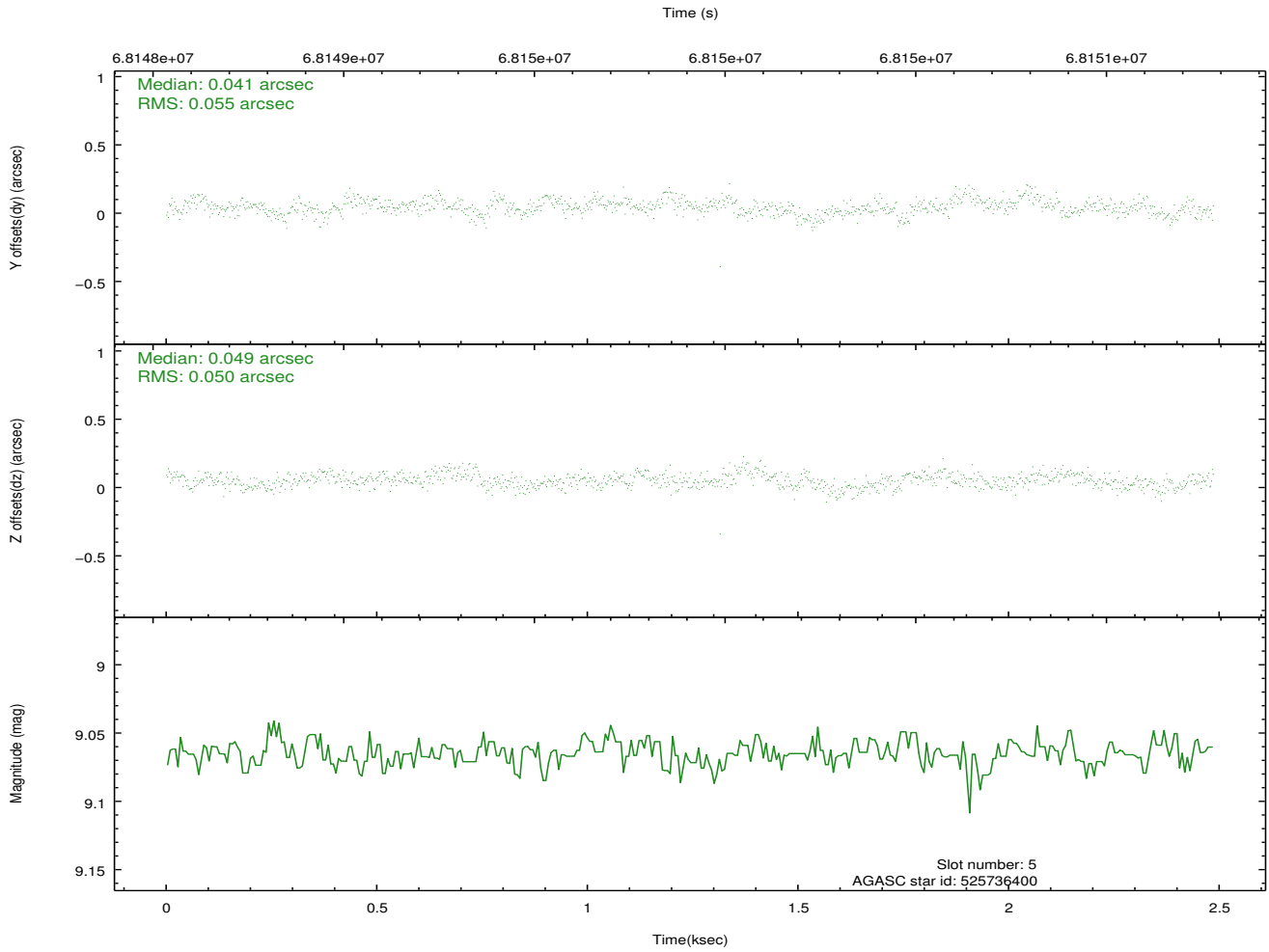
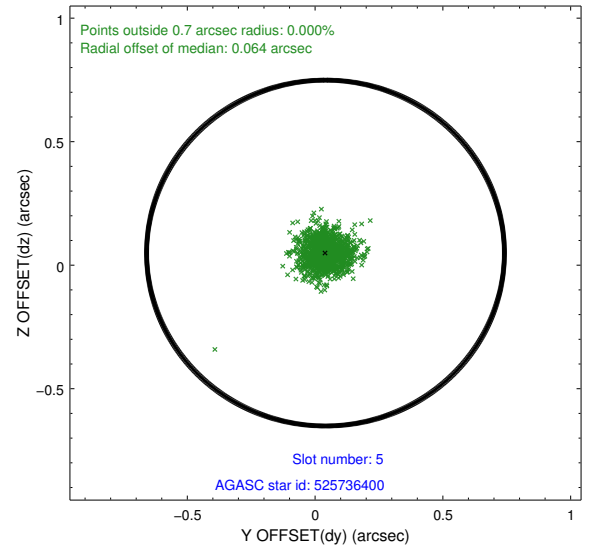
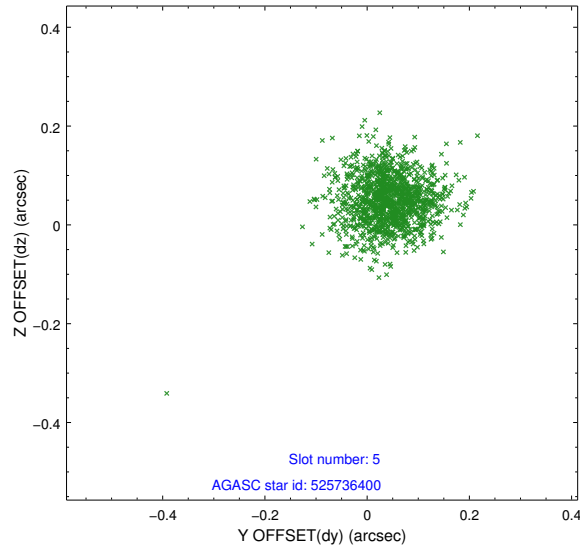
### 2.4.1 Slot 3



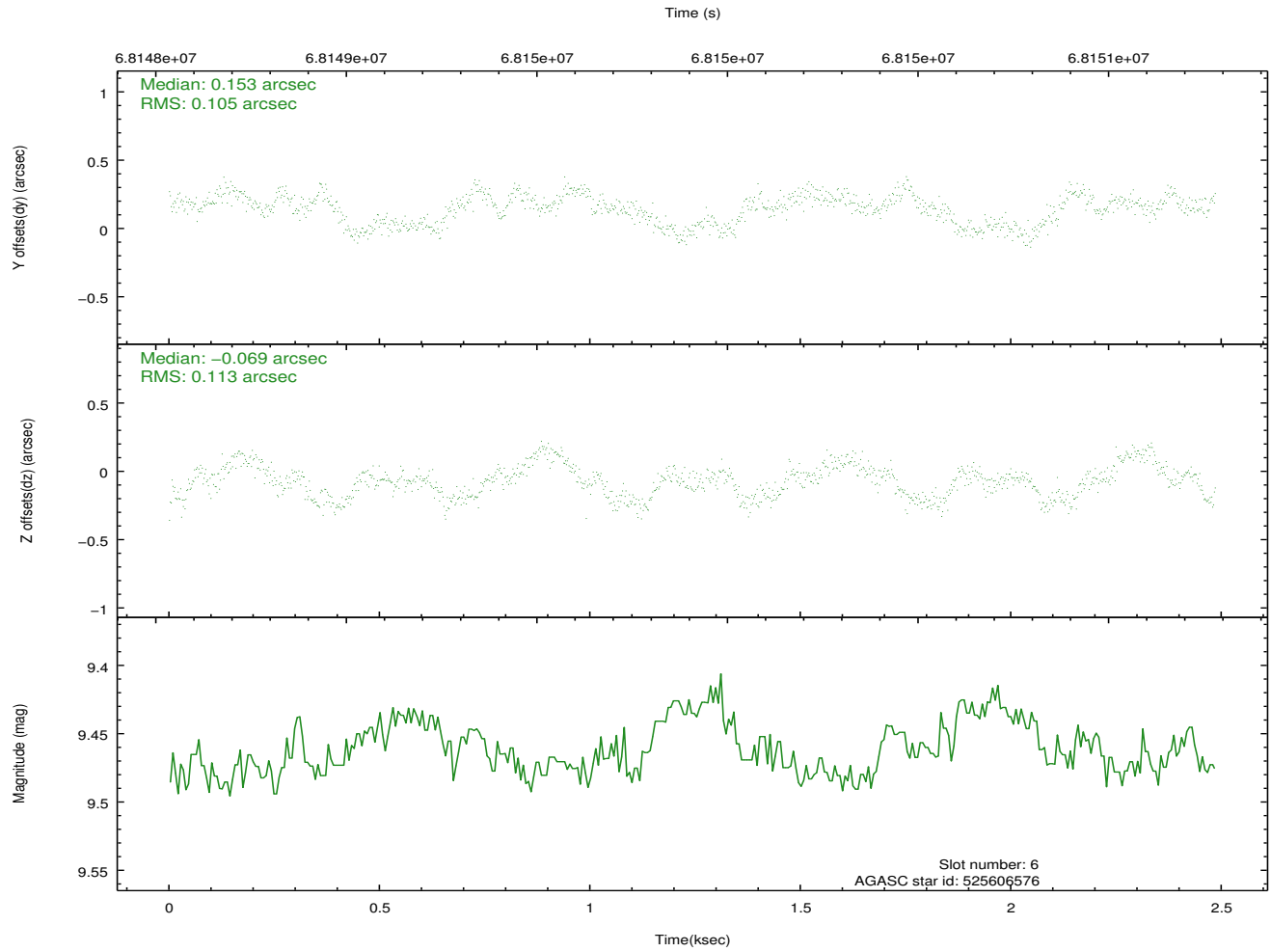
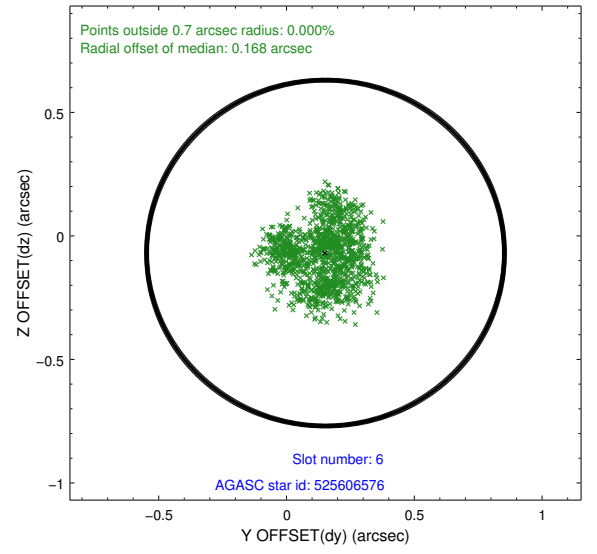
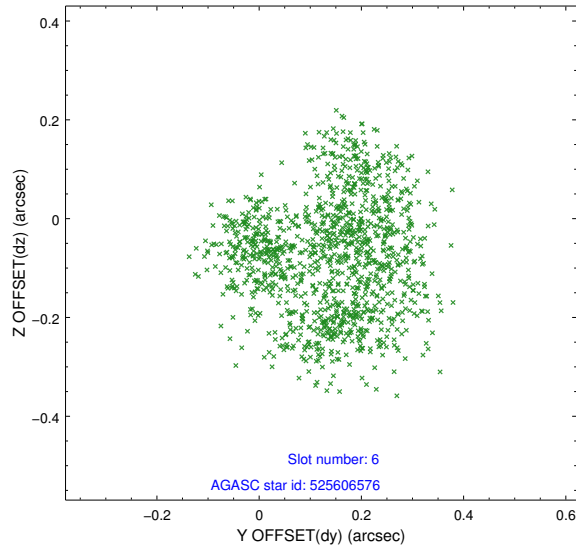
## 2.4.2 Slot 4



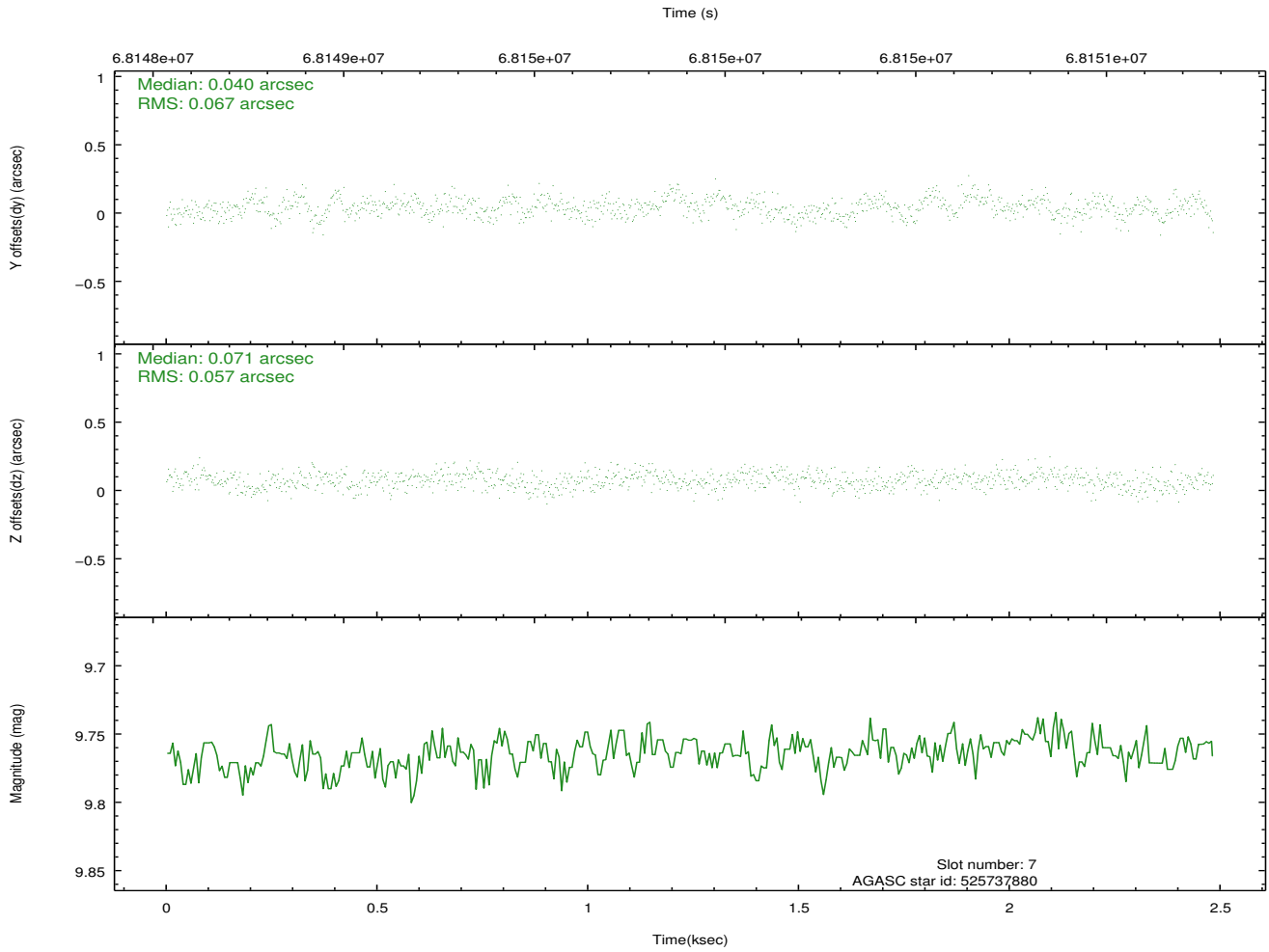
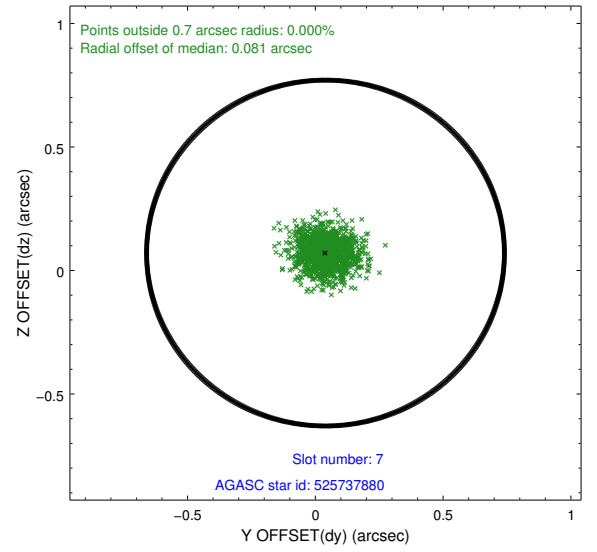
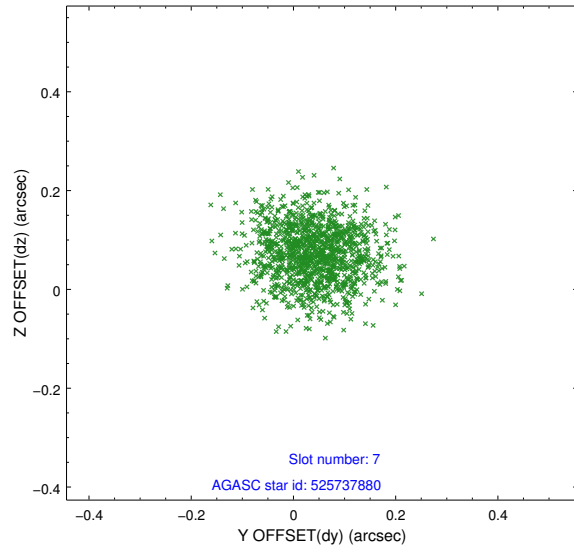
### 2.4.3 Slot 5



## 2.4.4 Slot 6

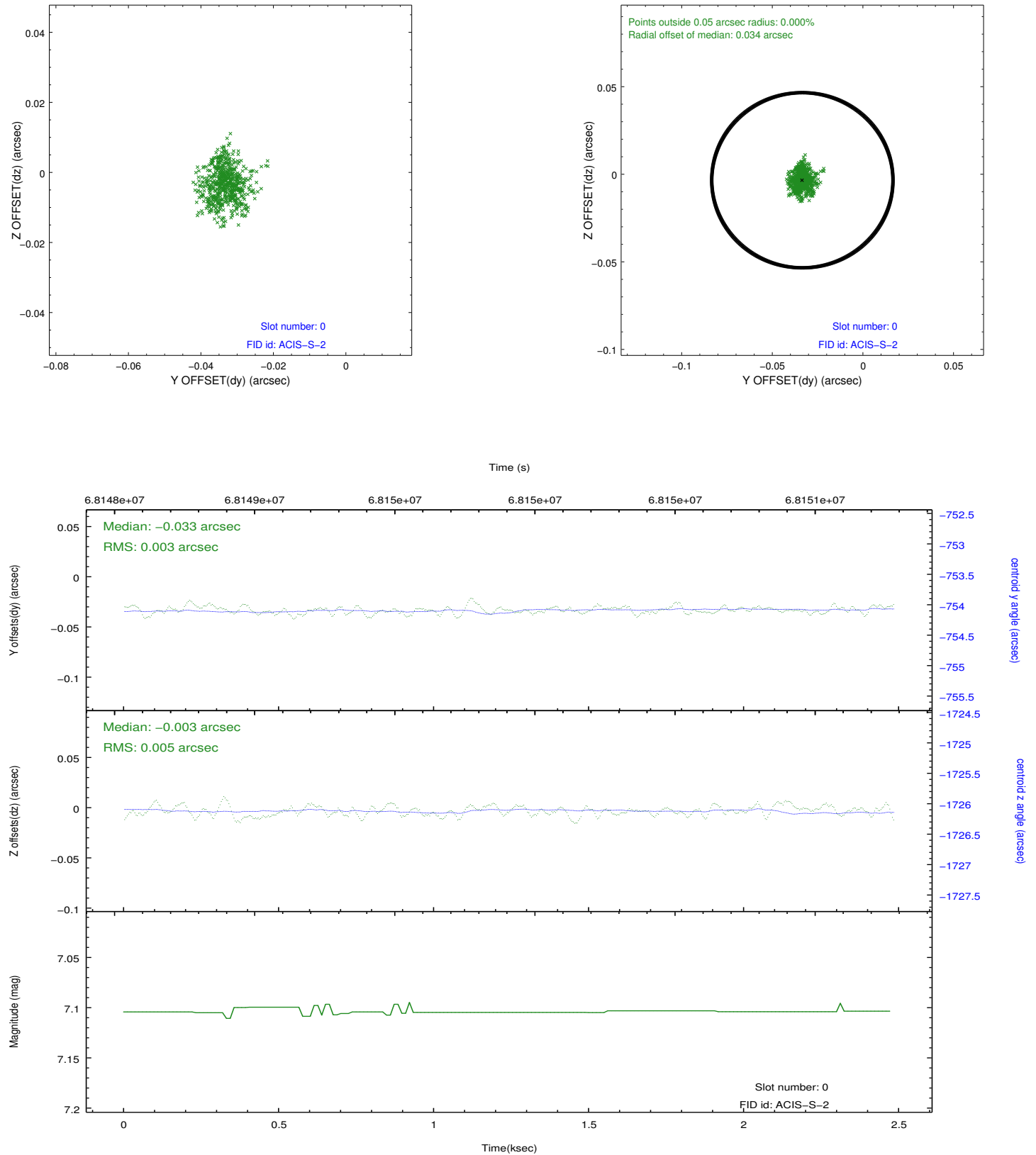


## 2.4.5 Slot 7

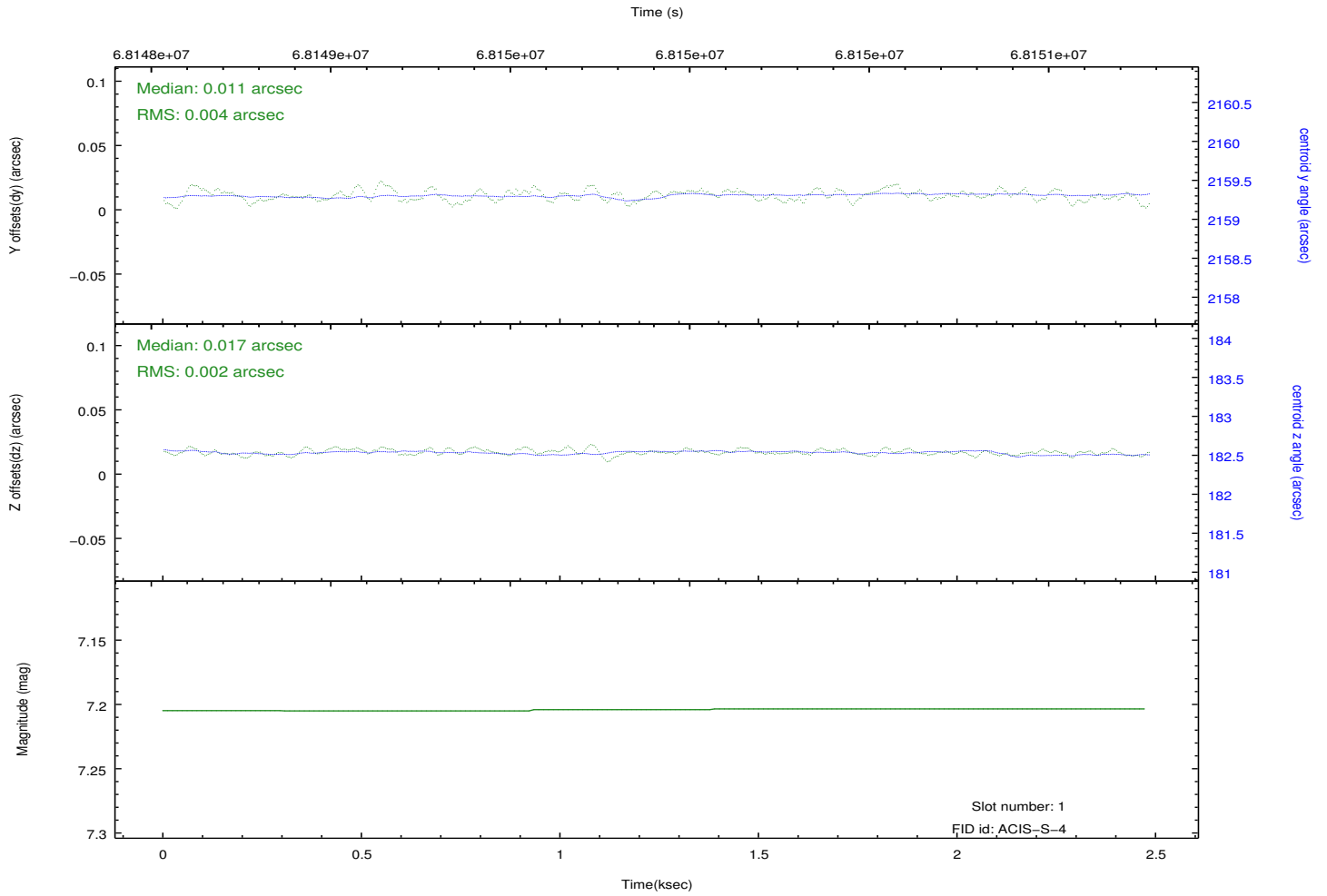
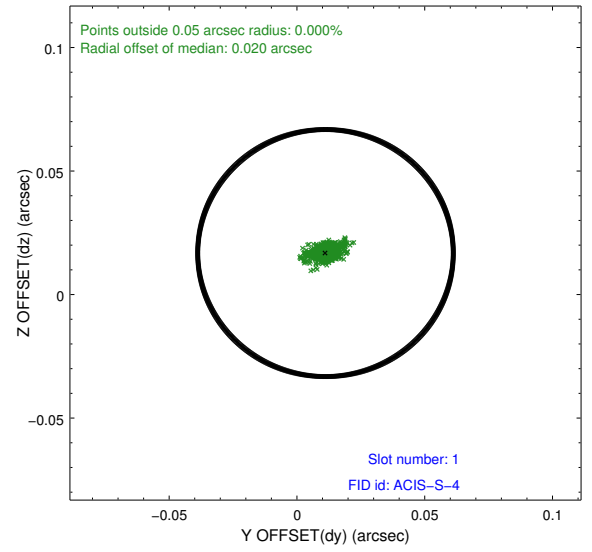
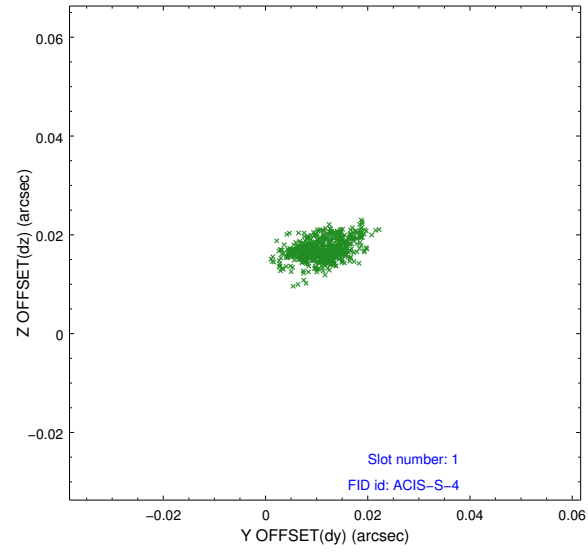


## 2.5 FID Slots

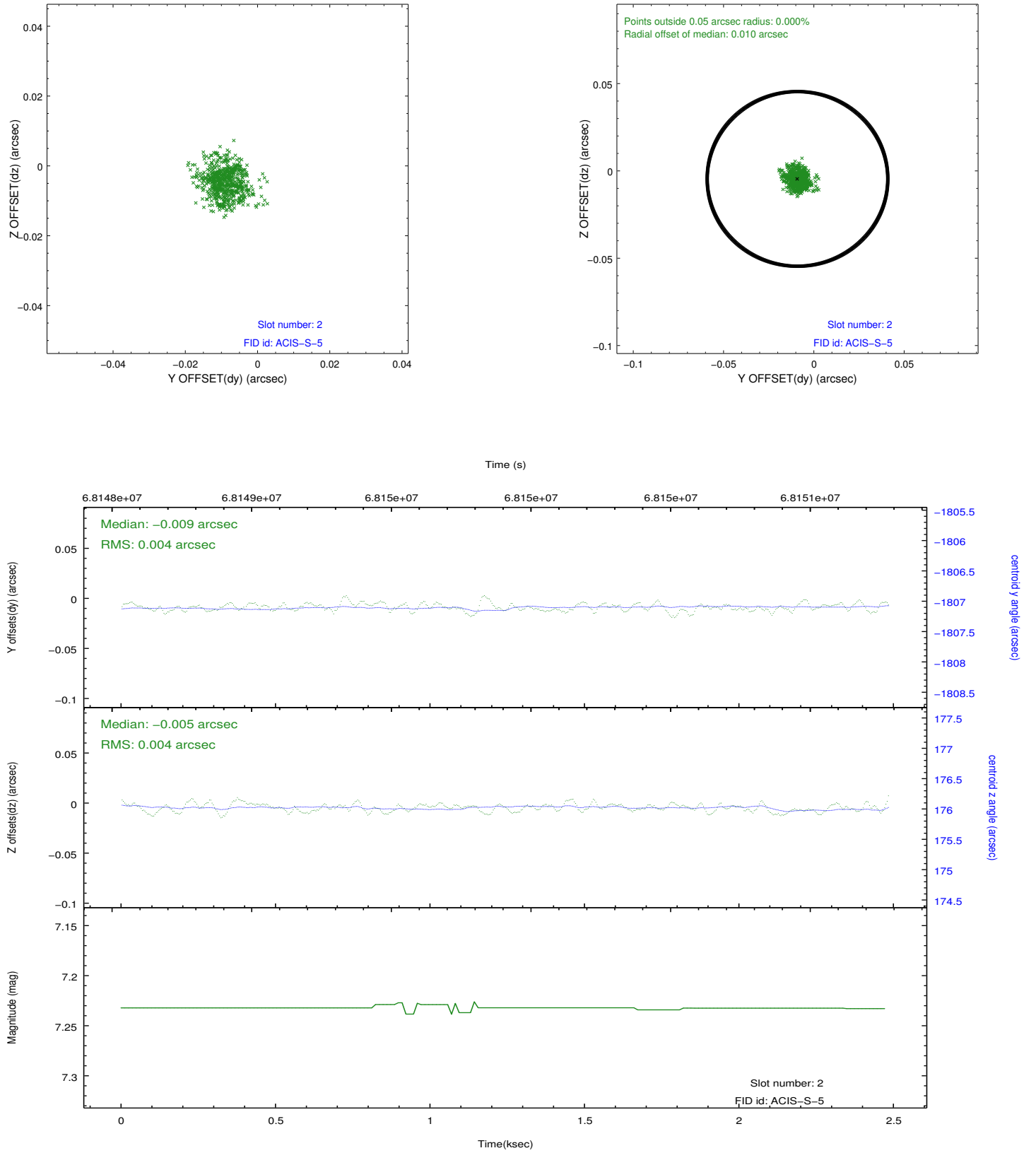
### 2.5.1 Slot 0



## 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)	2012.08.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.036

## A.2 Comments

Charge time for this ObsId remains at previous value of 1.036 ks, although with the current processing the charge time would have been 1.033 ksec. Window constraint met.