

# V&V Reference Report

## L2 ASCDS Version : 10.4.3

Observation 18107 - L2 Version 1  
Chandra X-Ray Center

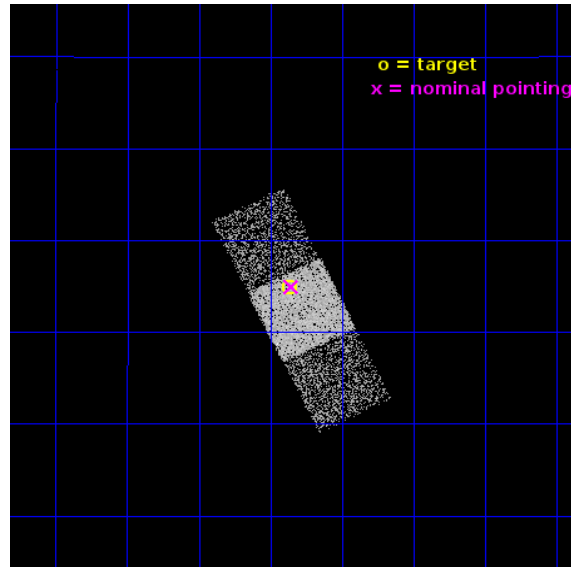
L2 Processing Date : Dec 28 2015

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# 1 Front

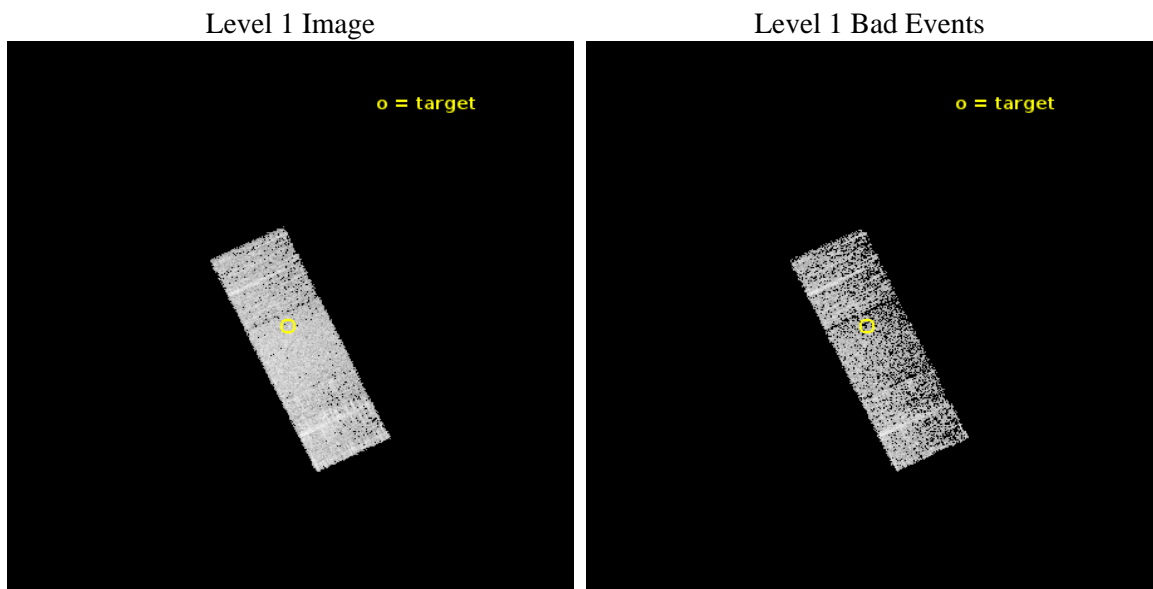
seq_num	703173	Sequence number
obs_id	18107	Observation id
title	Bridging the Gap Between Weak-Line and Typical Quasars	Proposal ti
observer	Prof. William Brandt	Principal investigator
object	SDSS J1509+0304	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	227.340417	Observer's specified target RA [deg]
dec_targ	3.081306	Observer's specified target Dec [deg]
ra_nom	227.33817087496	Nominal RA [deg]
dec_nom	3.0824512035345	Nominal Dec [deg]
roll_nom	64.156679198557	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3111.0788736343	Sum of GTIs [s]
livetime	3070.4303378074	Livetime [s]
ontime6	3111.0378336906	Sum of GTIs [s]
ontime7	3111.0788736343	Sum of GTIs [s]
ontime8	3110.9967936277	Sum of GTIs [s]
l2events	14149	Number of level 2 events



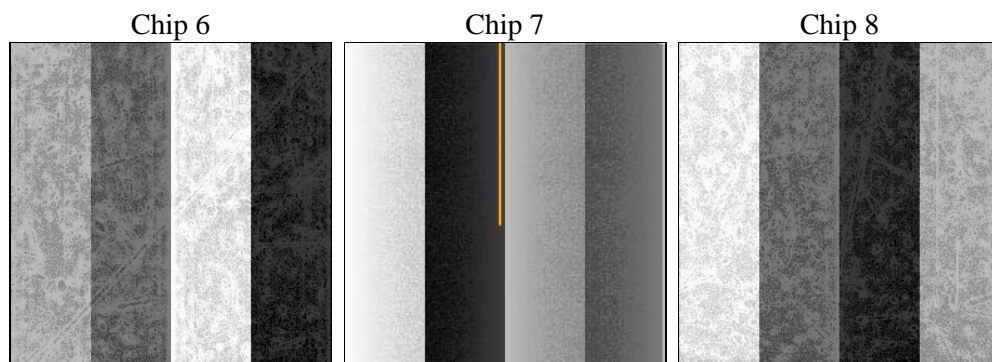
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	3111.0788736343	Sum of GTIs [s]
caldsver	4.7.0	&#160	ontime6	3111.0378336906	Sum of GTIs [s]
date	2015-12-28T14:14:49	Date and time of file creation	ontime7	3111.0788736343	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	3110.9967936277	Sum of GTIs [s]
			l1events	66442	Number of level 1 events

### 2.1.4 Events

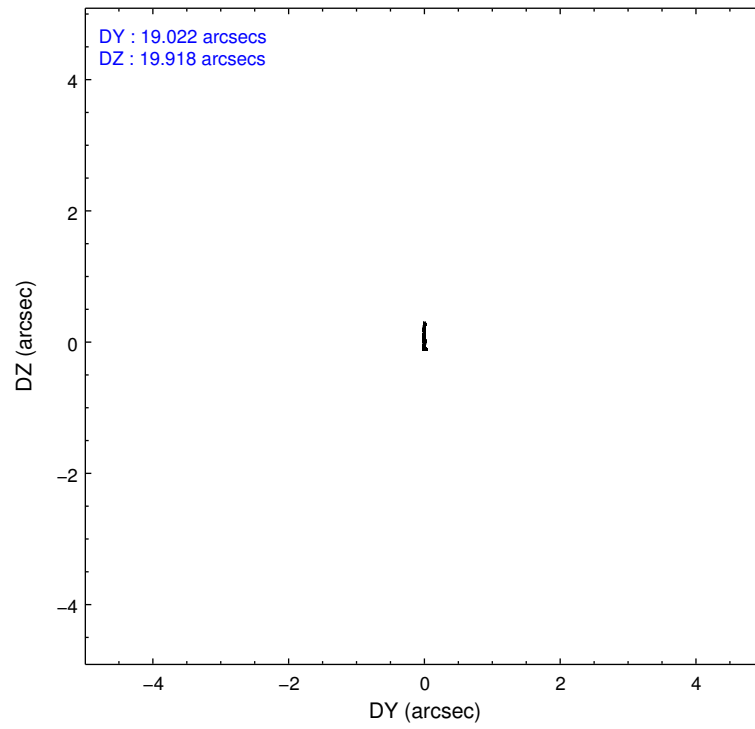
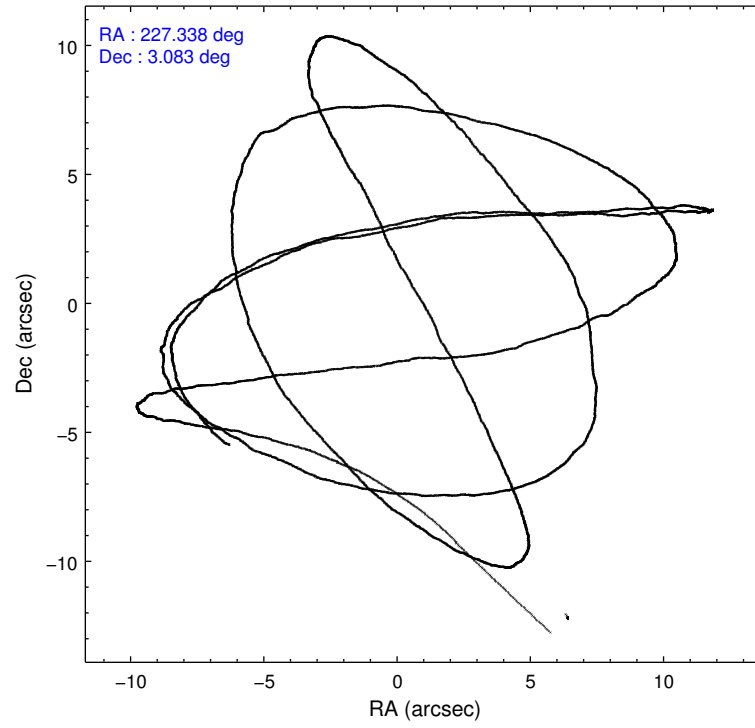
	ccd 6	ccd 7	ccd 8
level 1 events	17836	24179	24427
rejected events	15747	13673	17720
rejected %	88%	56%	72%

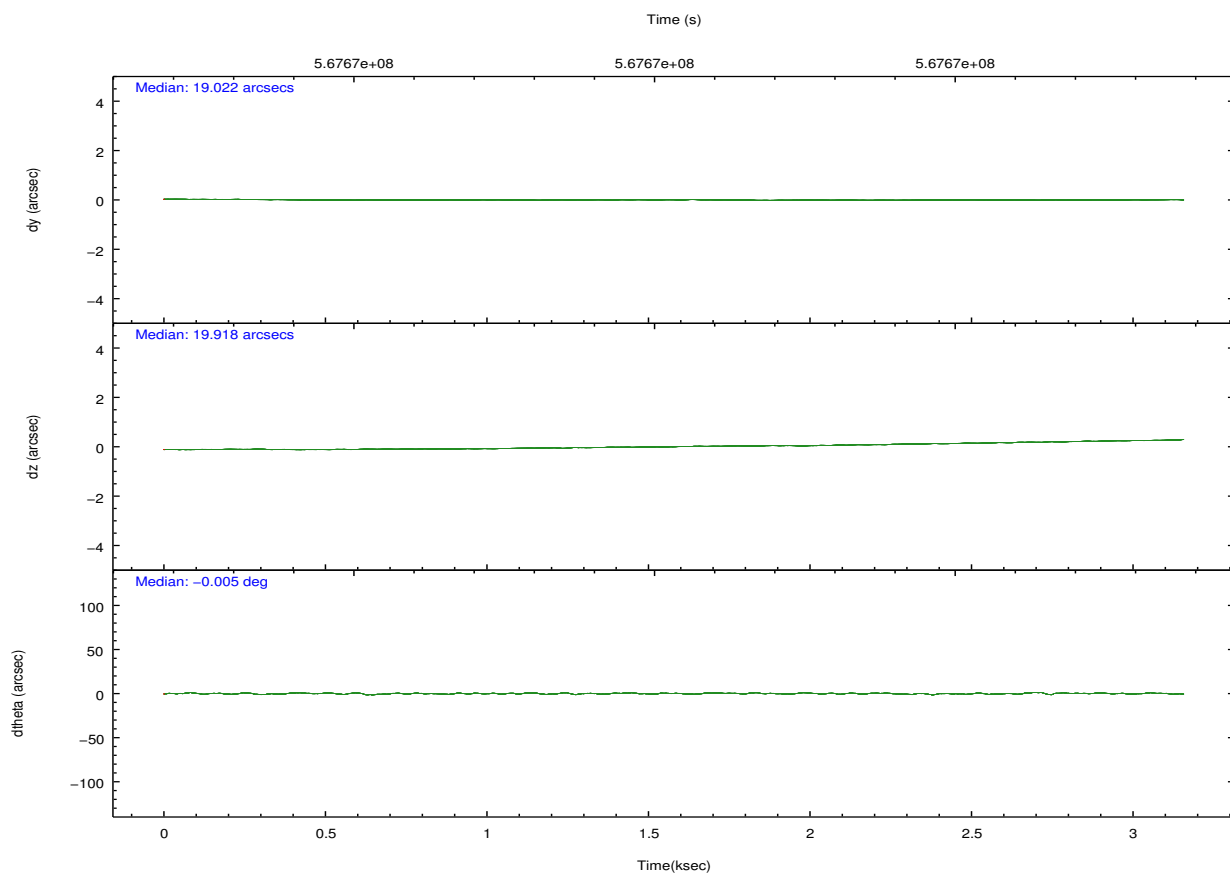
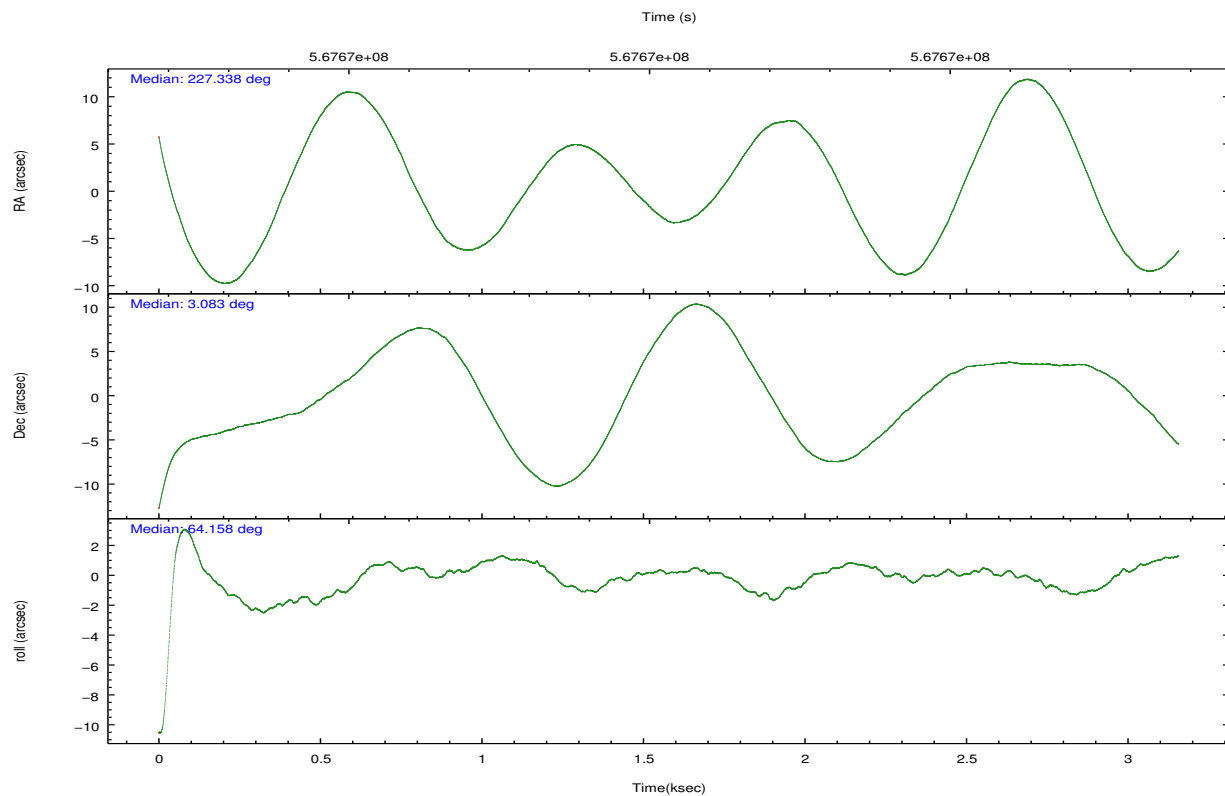
	ccd 6	ccd 7	ccd 8
grade 0 events	703	878	1953
	3%	3%	7%
grade 1 events	11	30	24
	0%	0%	0%
grade 2 events	479	2231	1580
	2%	9%	6%
grade 3 events	204	832	746
	1%	3%	3%
grade 4 events	230	820	695
	1%	3%	2%
grade 5 events	888	2340	1314
	4%	9%	5%
grade 6 events	476	5769	1751
	2%	23%	7%
grade 7 events	14845	11279	16364
	83%	46%	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	227.340678	227.338170874955	Subarray requested	NONE	NONE
[deg] Pointing Dec	3.055128	3.082451203534466	Alternating exposures requested	N	N
[deg] Pointing Roll	63.999991	64.15667919855716	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	567666653.184000	567665451.40873			
Observation start date	2015-12-28T05:09:45	2015-12-28T04:50:51			
[s] Observation end time (MET)	567669653.184000	567670714.27153			
Observation end date	2015-12-28T05:59:45	2015-12-28T06:18:34			
Read mode	TIMED	TIMED			

## 2.3 Aspect





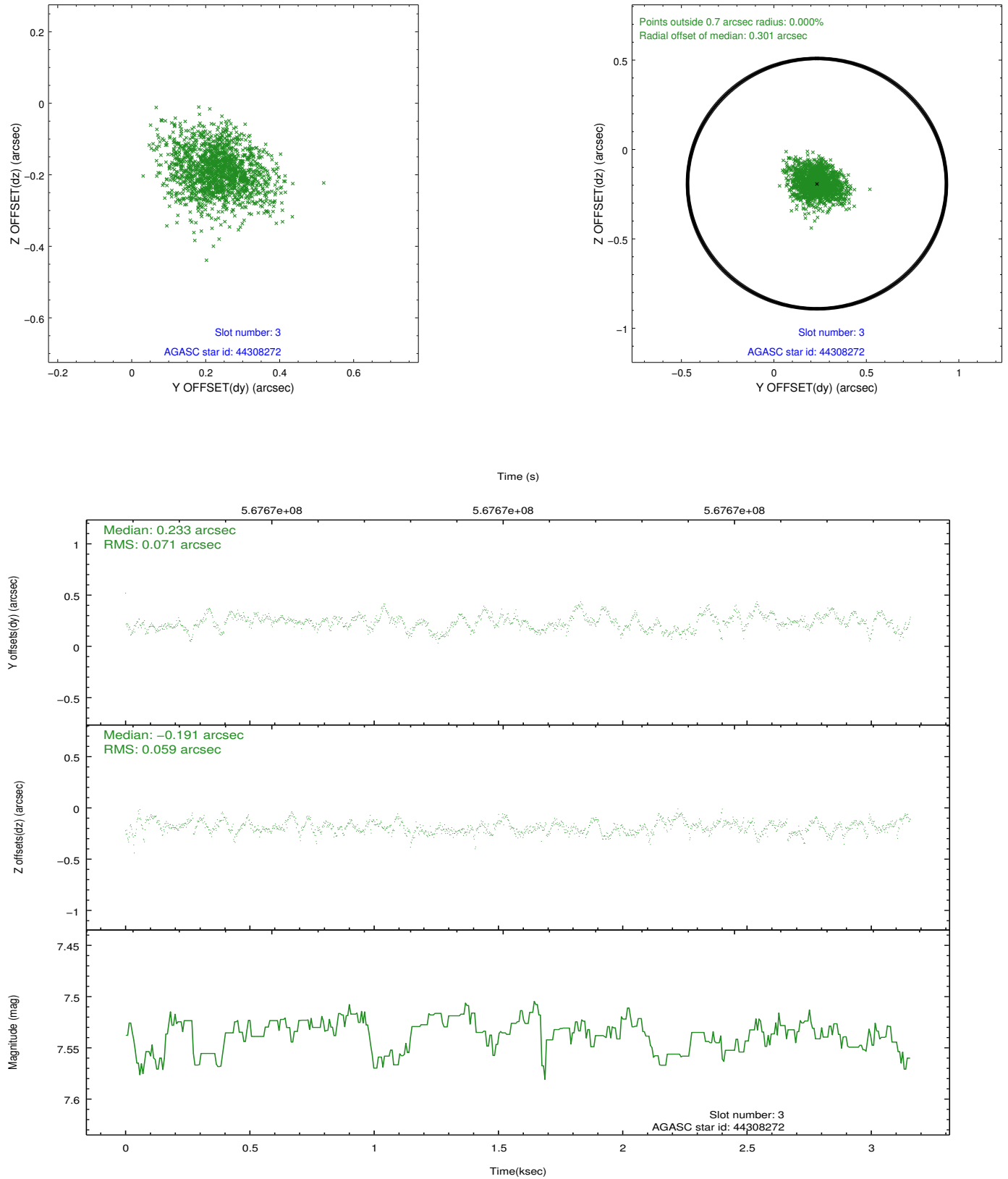
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.21	771	-0.087	-0.094	0.010	0.018	0.000000	0.000000	923.84	-1737.18
1	FID		ACIS-S-4	7.23	771	0.192	0.079	0.006	0.010	0.000000	0.000000	2142.64	165.06
2	FID		ACIS-S-6	7.37	771	-0.129	0.026	0.010	0.017	0.000000	0.000000	392.32	804.65
3	GUIDE	used	44308272	7.53	1541	0.233	-0.191	0.099	0.163	226.616172	3.009066	-1289.59	2268.18
4	GUIDE	used	44434008	8.70	1540	0.364	0.131	0.080	0.134	226.878607	2.612877	-2159.36	797.06
5	GUIDE	used	44434544	9.11	1540	0.230	0.369	0.115	0.177	227.699621	2.702348	-576.43	-1716.28
6	GUIDE	used	44441864	7.77	1539	-0.273	-0.076	0.073	0.120	227.447843	3.708468	2282.58	683.82
7	GUIDE	used	44958728	7.79	1540	-0.547	-0.237	0.131	0.187	227.075244	3.930602	2416.22	2238.42

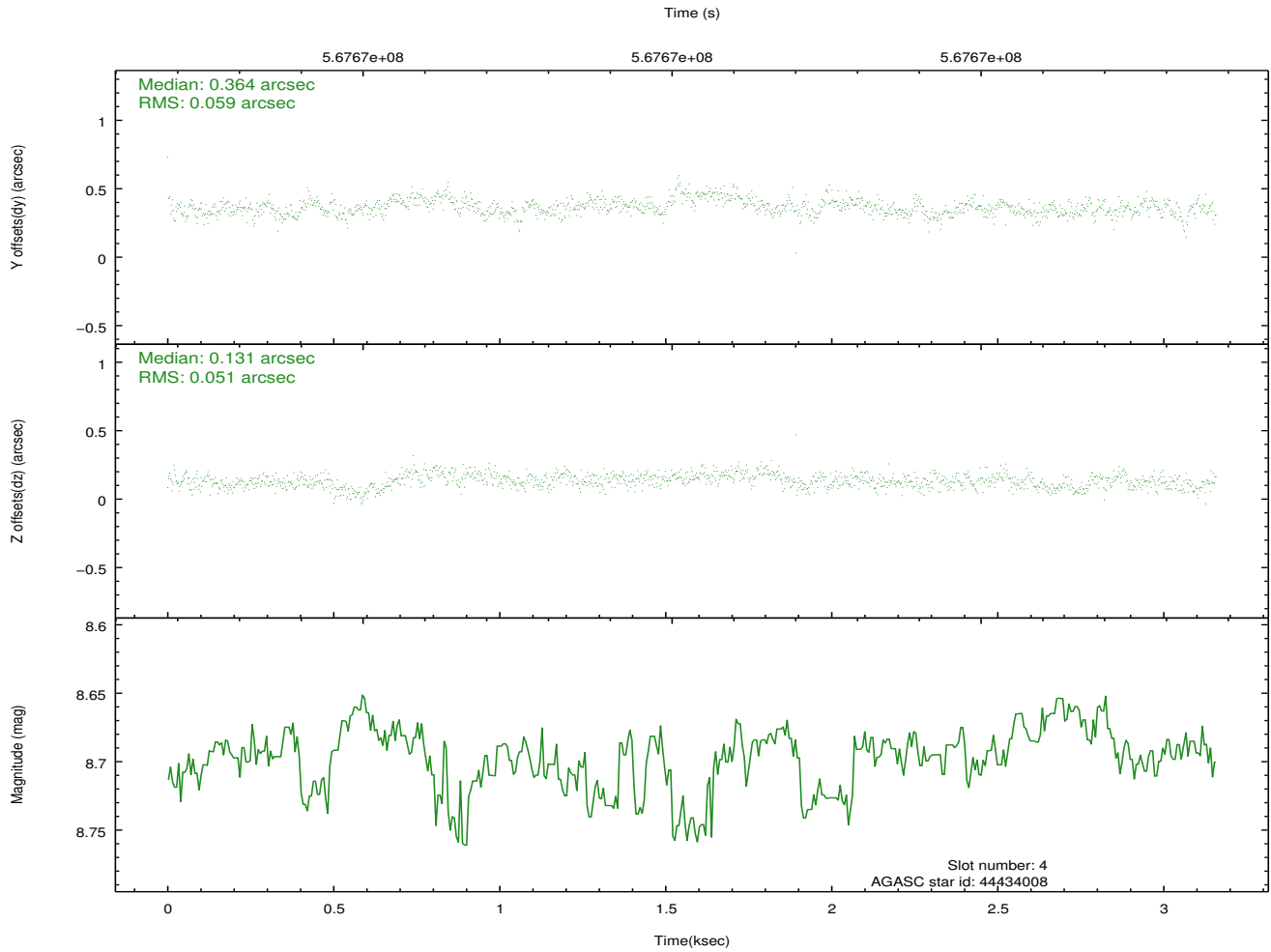
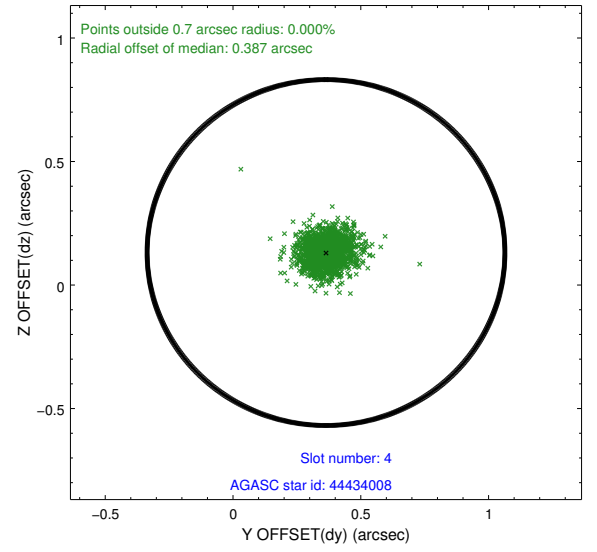
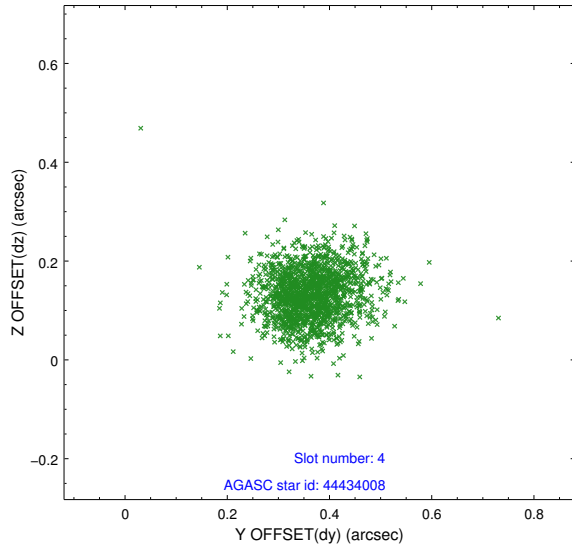


## 2.4 Star Slots

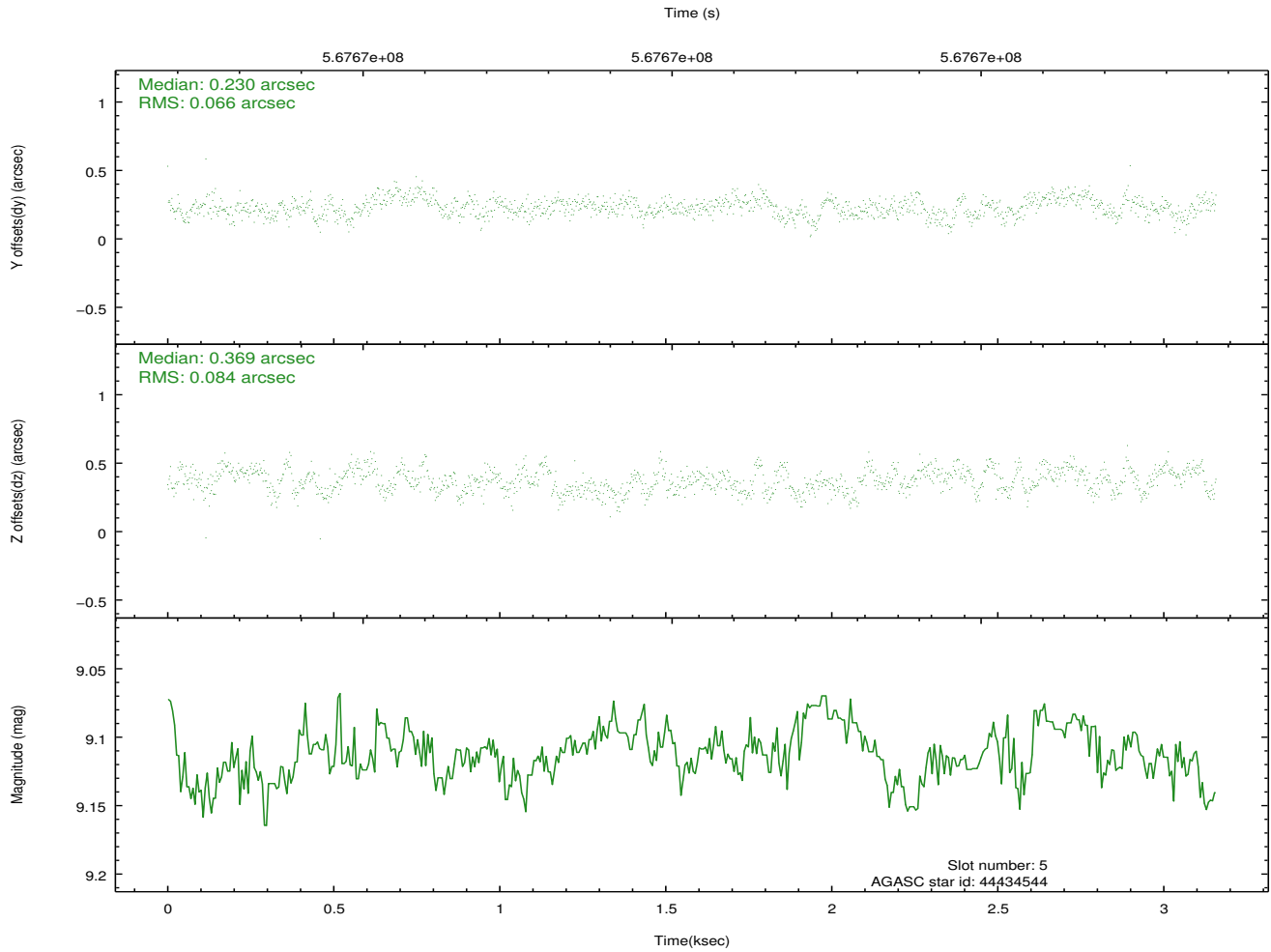
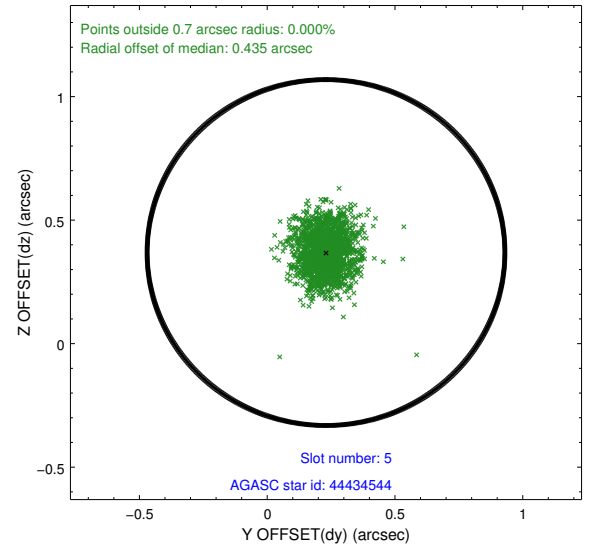
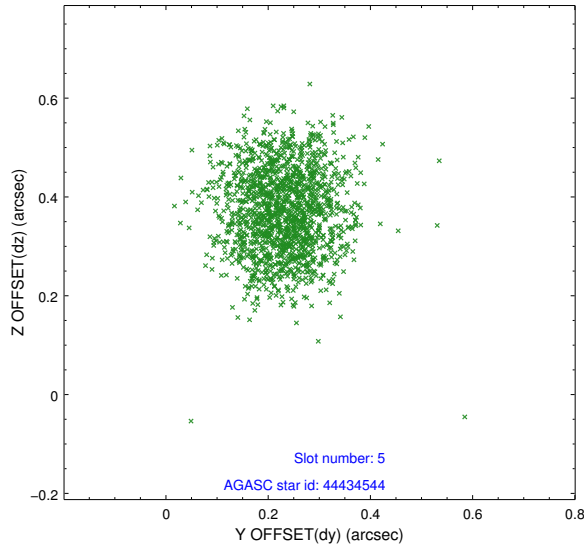
### 2.4.1 Slot 3



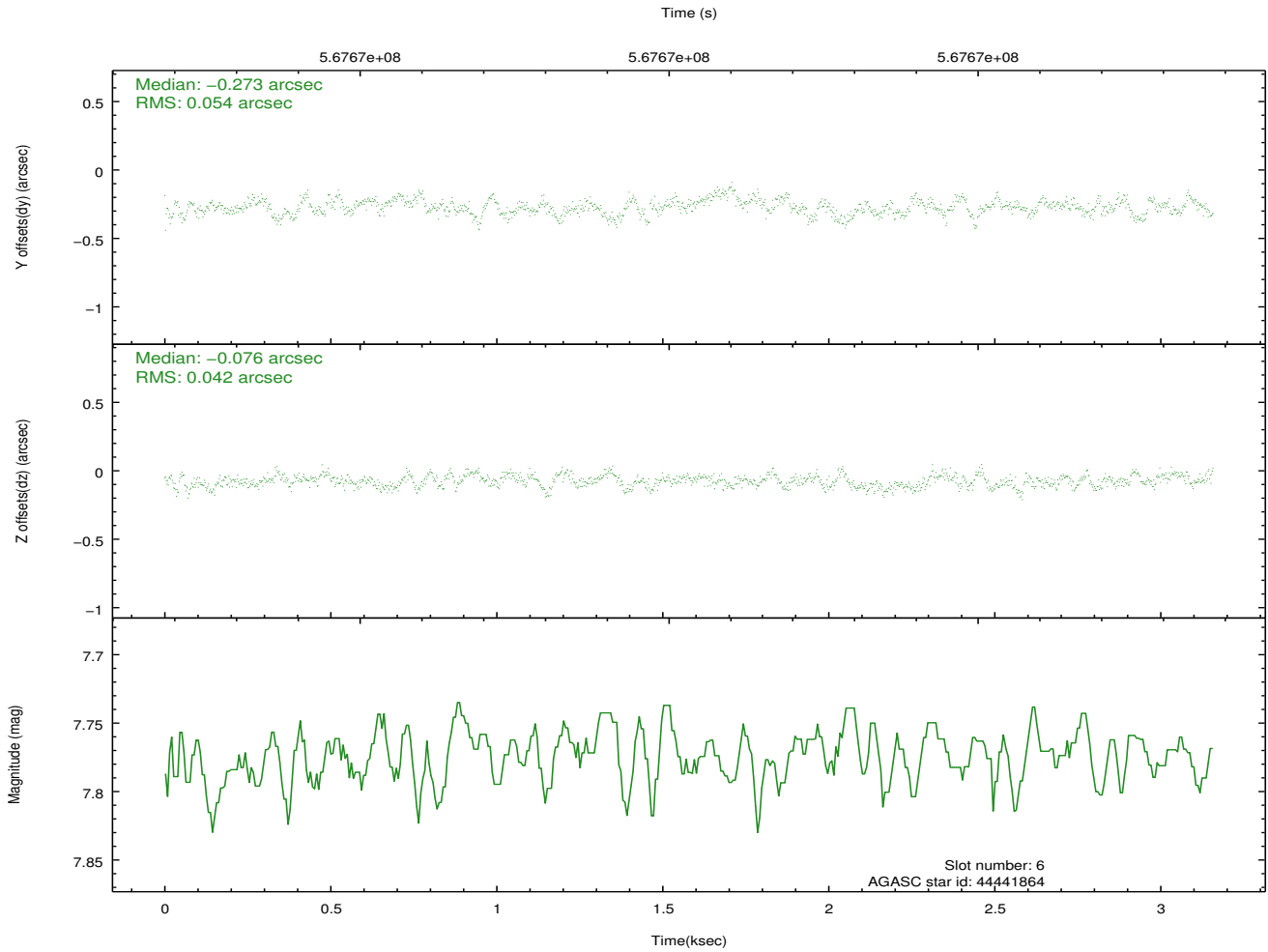
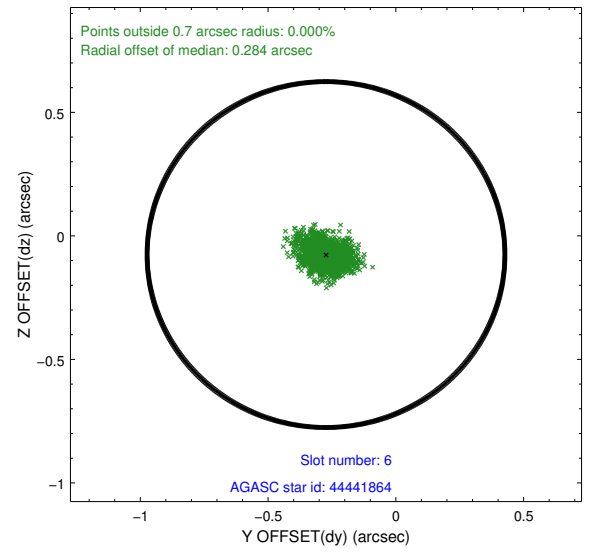
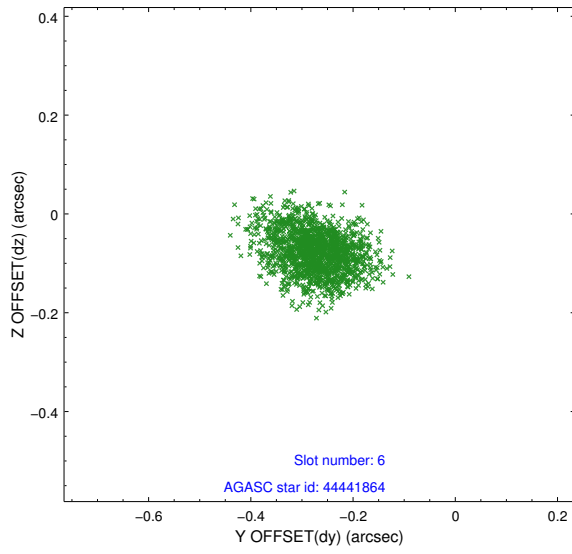
## 2.4.2 Slot 4



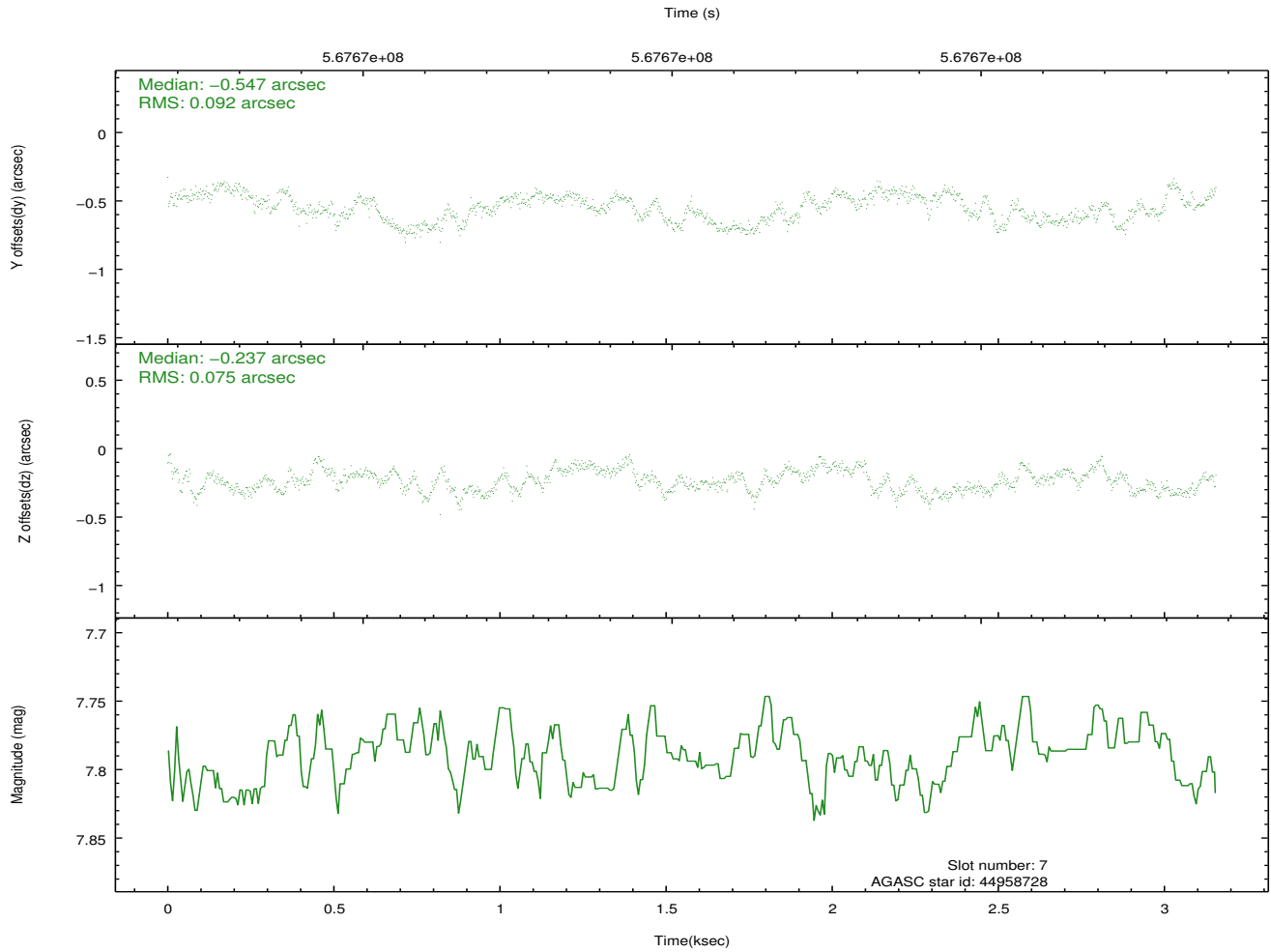
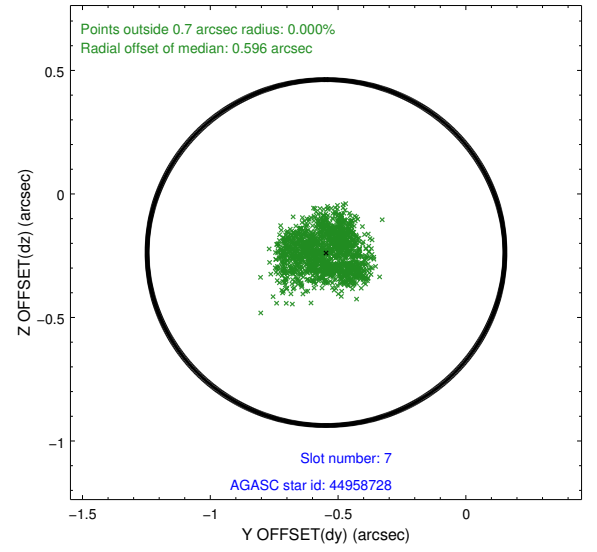
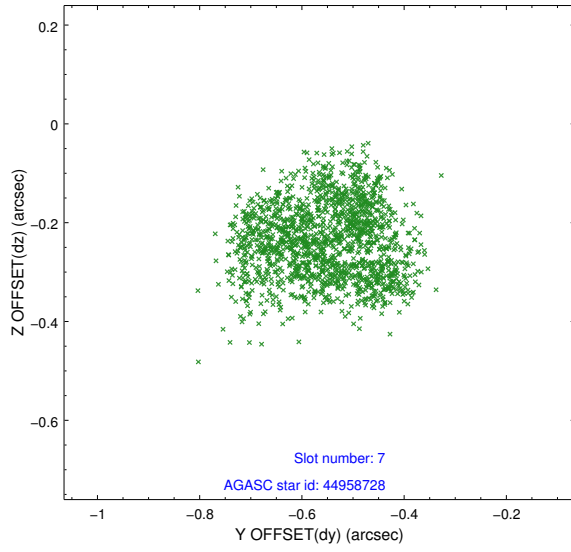
### 2.4.3 Slot 5



## 2.4.4 Slot 6

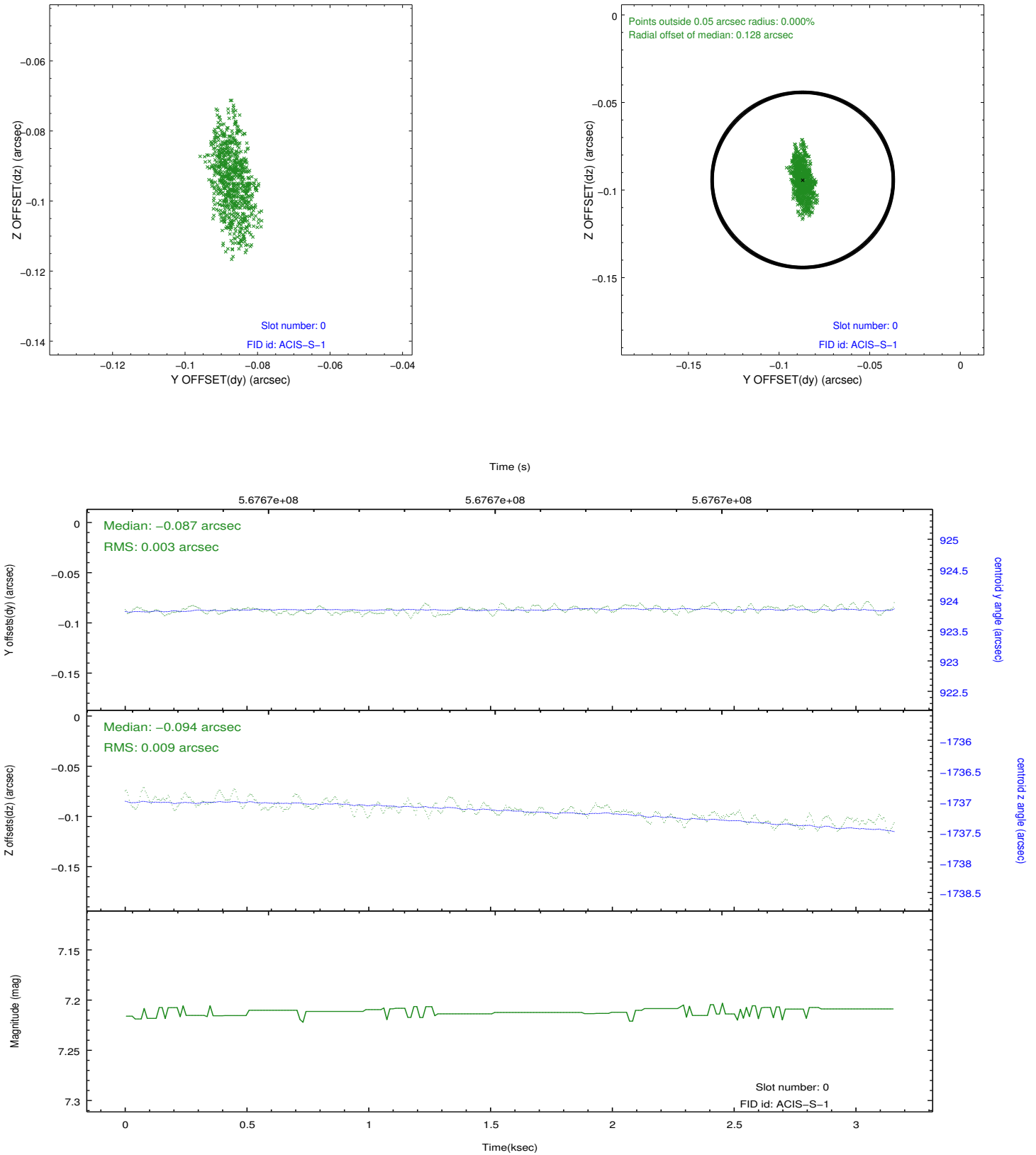


## 2.4.5 Slot 7

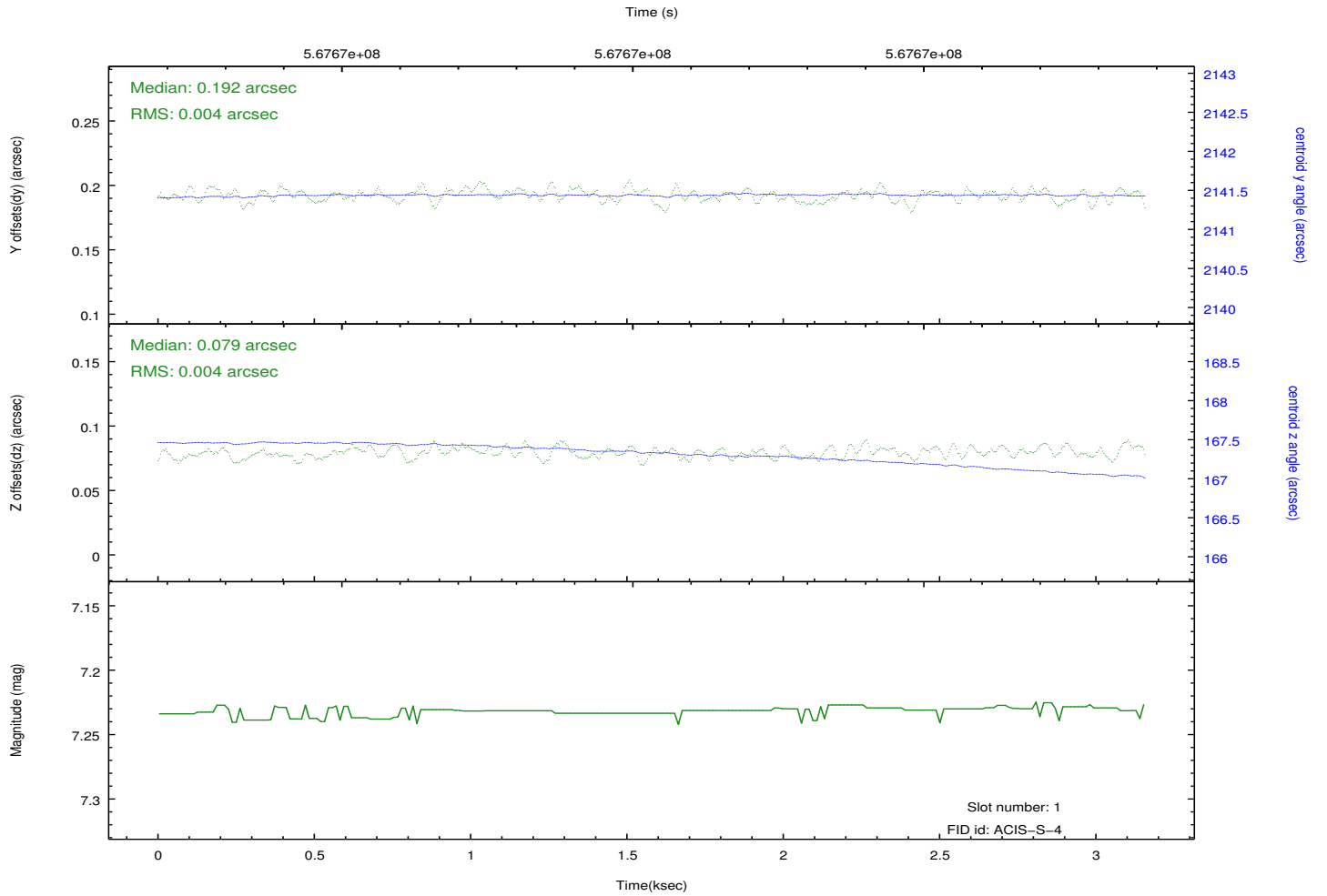
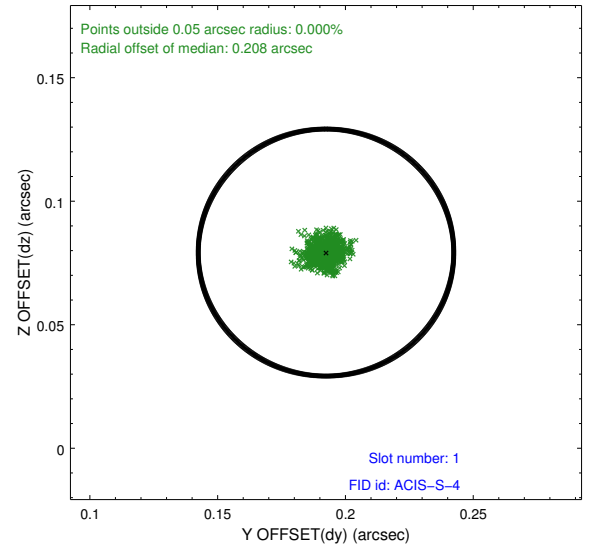
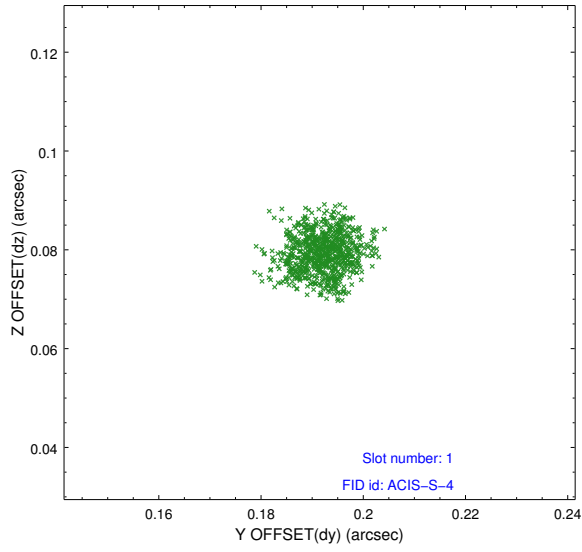


## 2.5 FID Slots

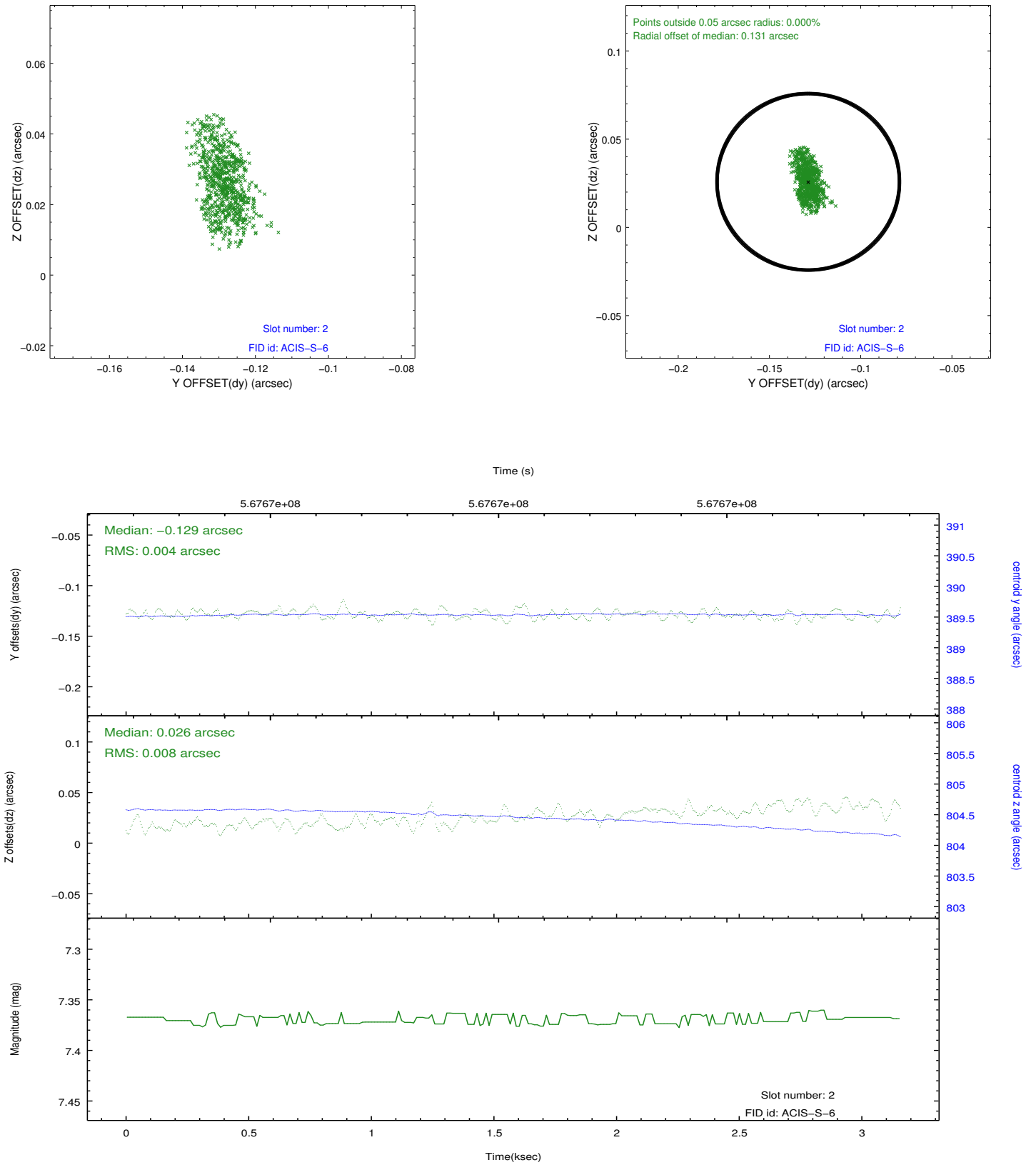
### 2.5.1 Slot 0



## 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)	2015.12.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1110788736343

### A.2 Comments