

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 7089 - L2 Version 2  
Chandra X-Ray Center

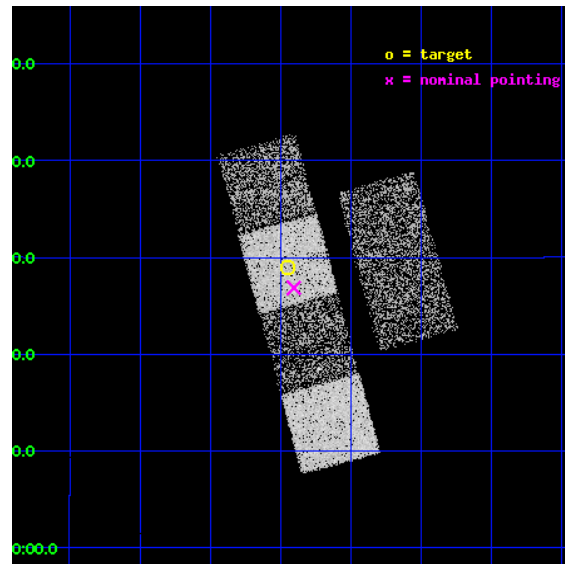
L2 Processing Date : Apr 6 2012

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# 1 Front

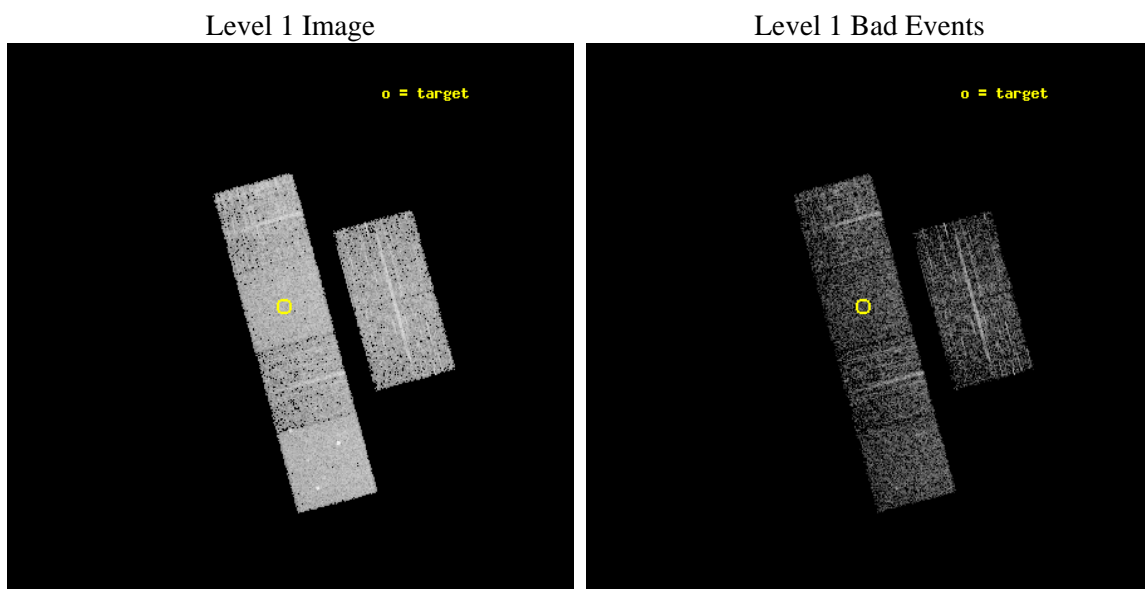
seq_num	600527	Sequence number
obs_id	7089	Observation id
title	A Complete Sample of ULX Host Galaxies	Proposal title
observer	Douglas Swartz	Principal investigator
object	NGC 4491	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.737917	Observer's specified target RA [deg]
dec_targ	11.483611	Observer's specified target Dec [deg]
ra_nom	187.72615594182	Nominal RA [deg]
dec_nom	11.44787605745	Nominal Dec [deg]
roll_nom	254.81186402082	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2175.9999919534	Sum of GTIs [s]
livetime	2148.4461698254	Livetime [s]
ontime2	2175.9999919534	Sum of GTIs [s]
ontime3	2175.9999919534	Sum of GTIs [s]
ontime5	2175.9999919534	Sum of GTIs [s]
ontime6	2175.9999919534	Sum of GTIs [s]
ontime7	2175.9999919534	Sum of GTIs [s]
ontime8	2175.9999919534	Sum of GTIs [s]
l2events	33588	Number of level 2 events



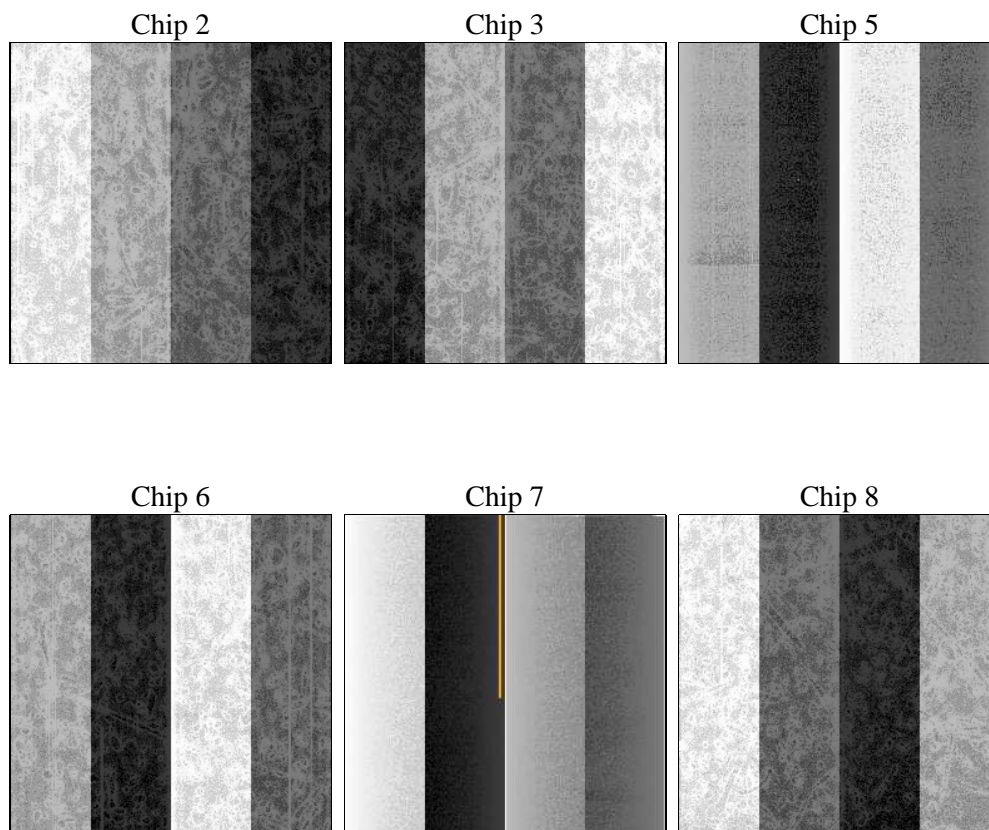
## 2 OBI

### 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	8.4.3.1	Processing system revision	ontime	2175.9999919534	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	2175.9999919534	Sum of GTIs [s]
date	2012-04-06T02:43:04	Date and time of file creation	ontime3	2175.9999919534	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	2175.9999919534	Sum of GTIs [s]
			ontime6	2175.9999919534	Sum of GTIs [s]
			ontime7	2175.9999919534	Sum of GTIs [s]
			ontime8	2175.9999919534	Sum of GTIs [s]
			l1events	171858	Number of level 1 events

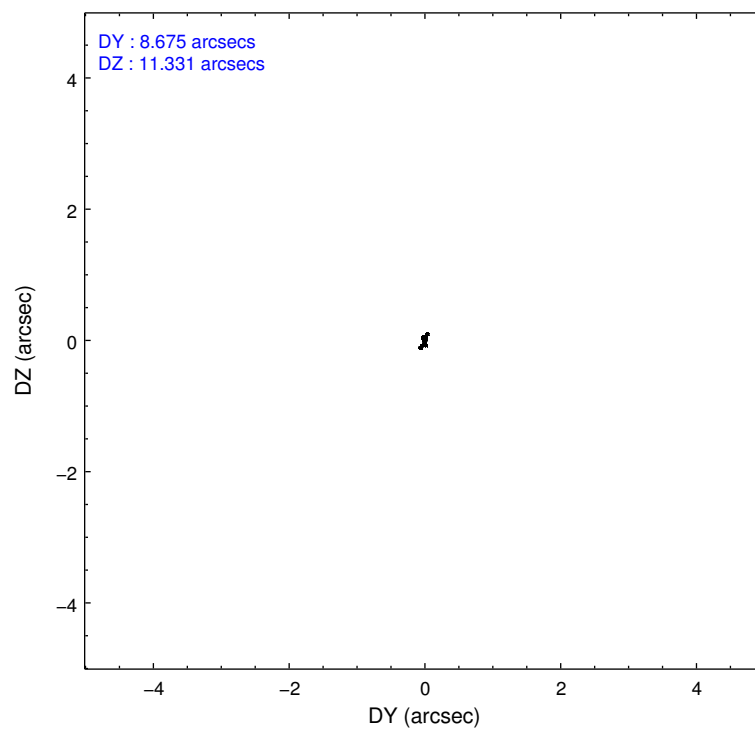
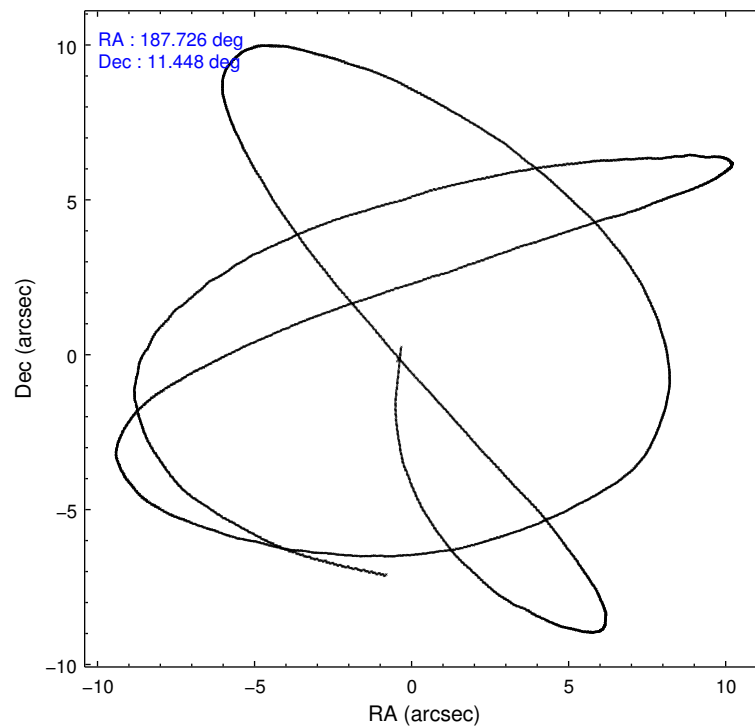
### 2.1.4 Events

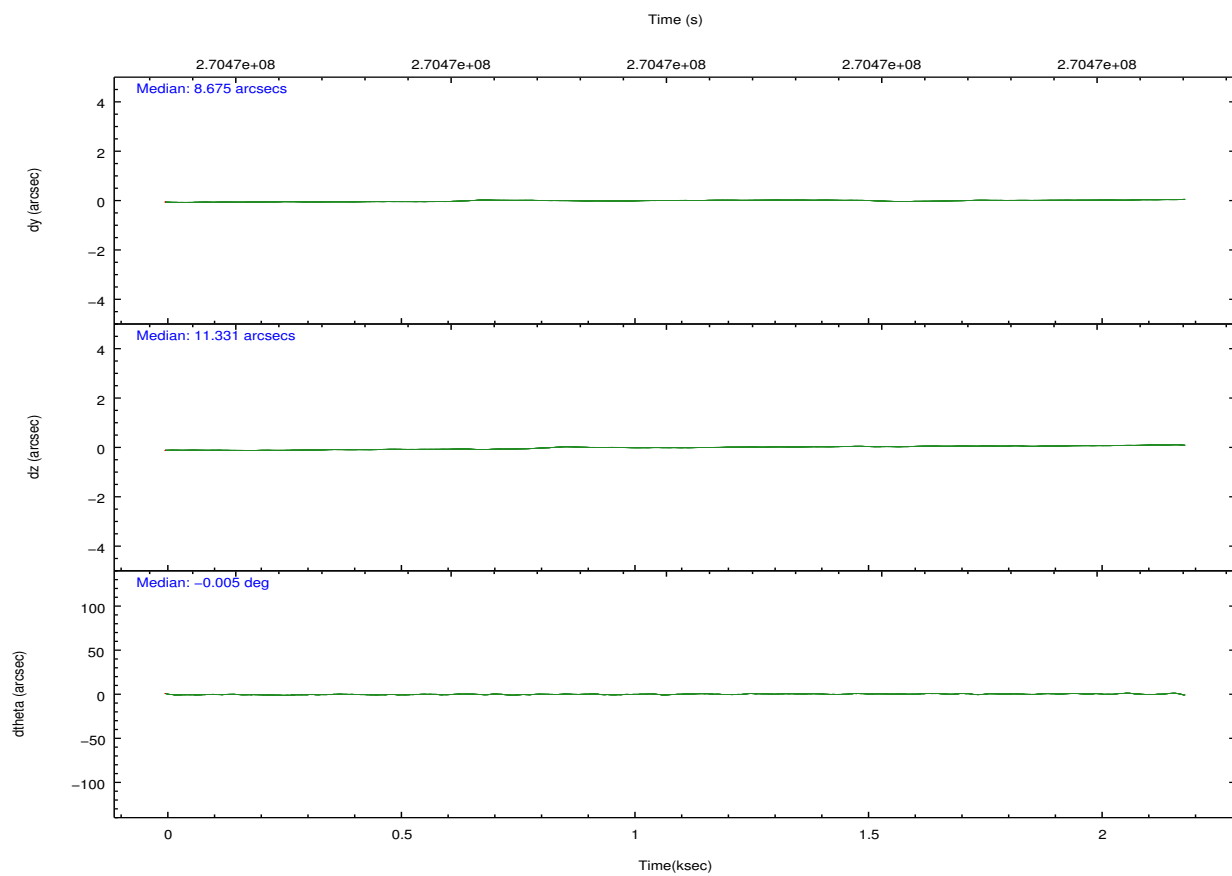
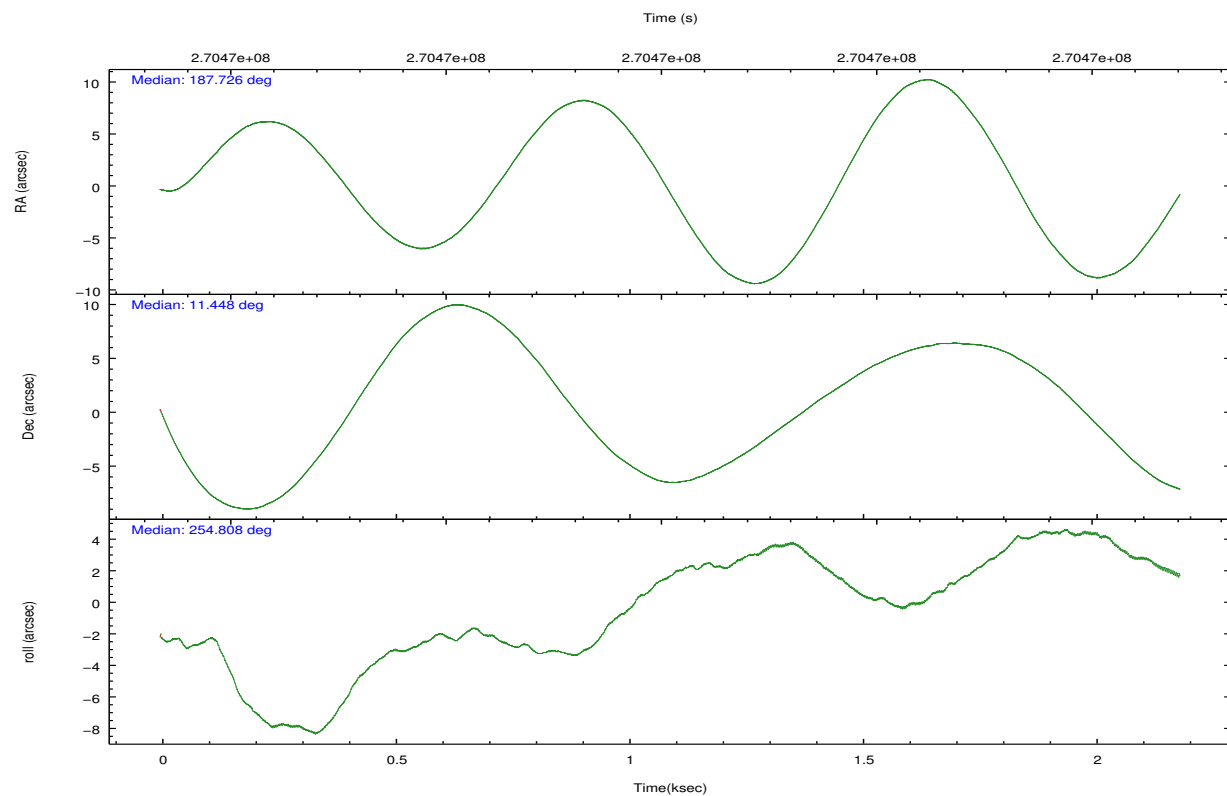
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	25249	22790	36439	23341	32888	31151	grade 0 events	1529	1552	1949	1391	1470	2789
rejected events	22642	20234	22618	20839	21368	25001		6%	6%	5%	5%	4%	8%
rejected %	89%	88%	62%	89%	64%	80%	grade 1 events	24	18	80	10	37	28
								0%	0%	0%	0%	0%	0%
							grade 2 events	661	582	5073	589	2925	1611
								2%	2%	13%	2%	8%	5%
							grade 3 events	238	264	698	287	1228	769
								0%	1%	1%	1%	3%	2%
							grade 4 events	244	256	580	276	1301	724
								0%	1%	1%	1%	3%	2%
							grade 5 events	964	1092	2602	1120	3022	1490
								3%	4%	7%	4%	9%	4%
							grade 6 events	487	452	8832	557	7306	1774
								1%	1%	24%	2%	22%	5%
							grade 7 events	21102	18574	16625	19111	15599	21966
								83%	81%	45%	81%	47%	70%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	187.718720	187.7261559418182	Subarray requested	NONE	NONE
[deg] Pointing Dec	11.474260	11.44787605745011	Alternating exposures requested	N	N
[deg] Pointing Roll	254.656739	254.8118640208219	[s] Primary exposure time	0.000000	3.2
[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)	270466610.184000	270465290.46739			
Observation start date	2006-07-28T09:35:45	2006-07-28T09:14:50			
[s] Observation end time (MET)	270468610.184000	270468848.75506			
Observation end date	2006-07-28T10:09:05	2006-07-28T10:14:08			
Read mode	TIMED	TIMED			

## 2.3 Aspect





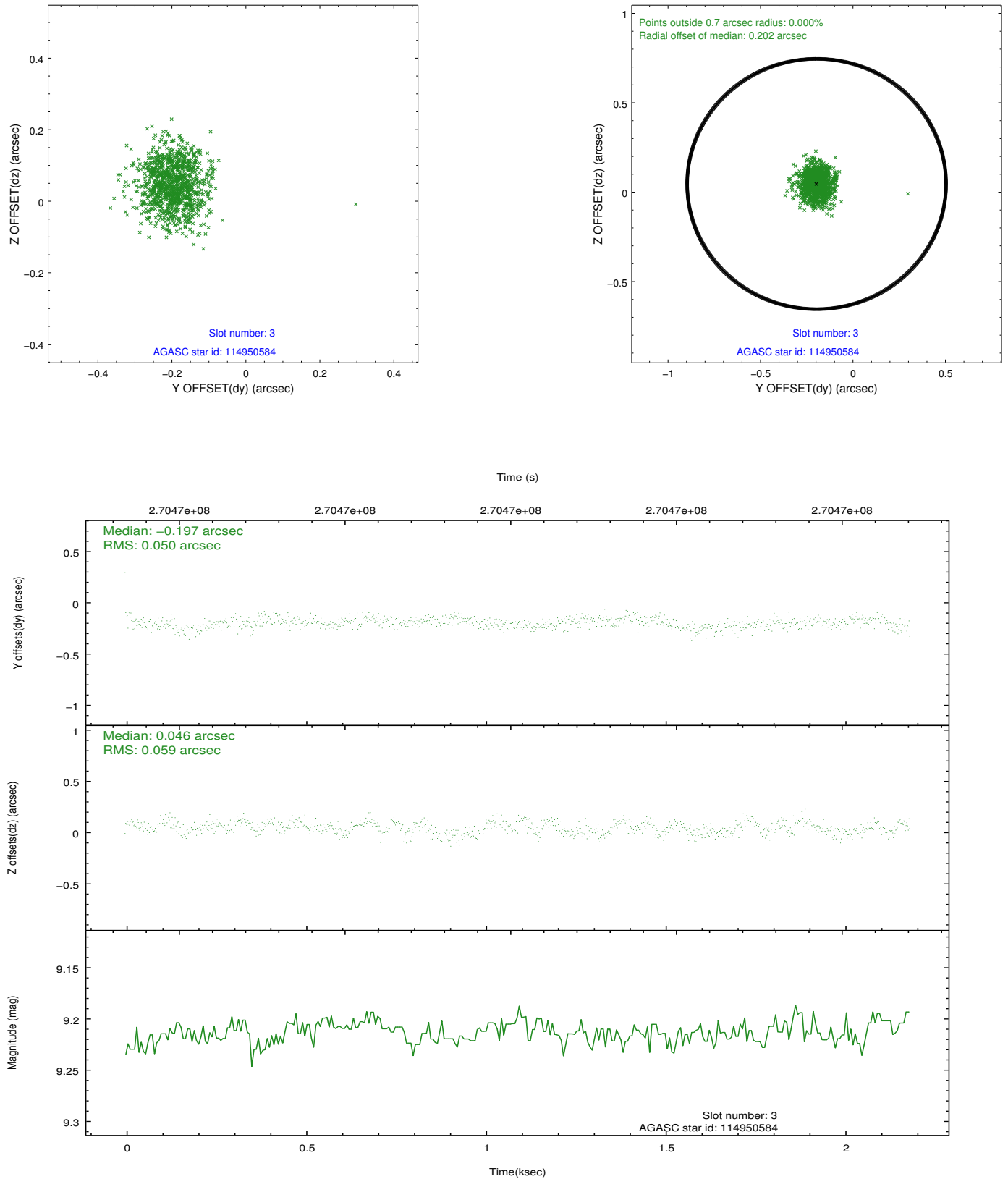
### Slot Statistics

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	533	-0.028	-0.014	0.007	0.011	0.000000	0.000000	-761.47	-1732.57
1	FID	ACIS-S-4	7.21	532	0.132	0.017	0.005	0.010	0.000000	0.000000	2150.59	172.88
2	FID	ACIS-S-5	7.23	533	-0.135	0.006	0.007	0.012	0.000000	0.000000	-1810.60	169.90
3	GUIDE	114950584	9.21	1066	-0.197	0.046	0.081	0.128	187.487323	11.827248	-1010.02	-1122.57
4	GUIDE	114954720	8.70	1064	-0.010	0.029	0.076	0.121	187.384636	11.492566	246.68	-1155.14
5	GUIDE	114957272	8.86	1066	-0.030	0.113	0.070	0.119	187.367706	11.138889	1492.00	-877.28
6	GUIDE	114955752	9.05	1065	0.245	-0.197	0.111	0.194	186.882211	11.026969	2332.78	-2426.40
7	GUIDE	114952472	9.18	1064	-0.001	0.011	0.090	0.143	186.965165	11.317874	1246.31	-2418.03

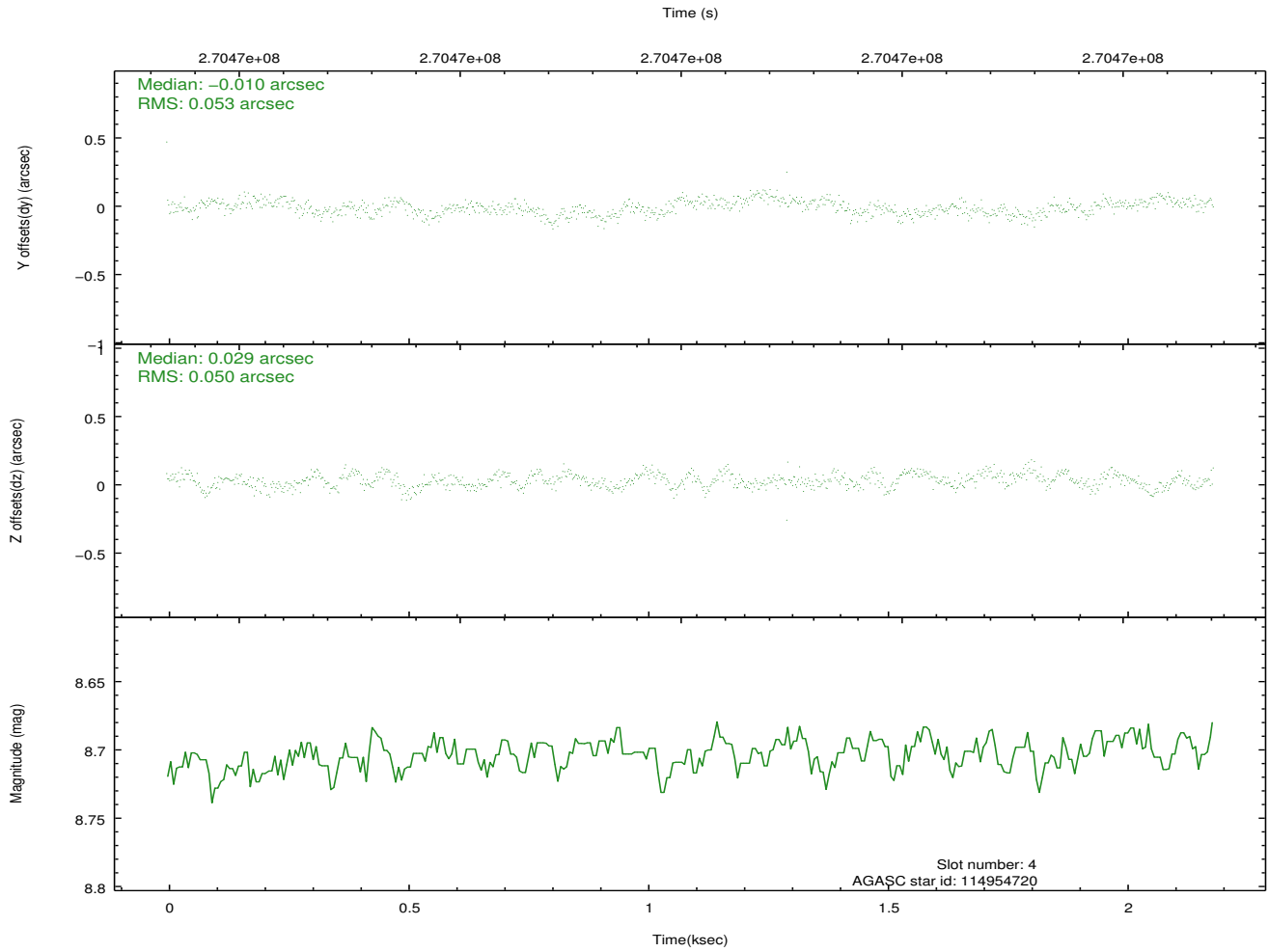
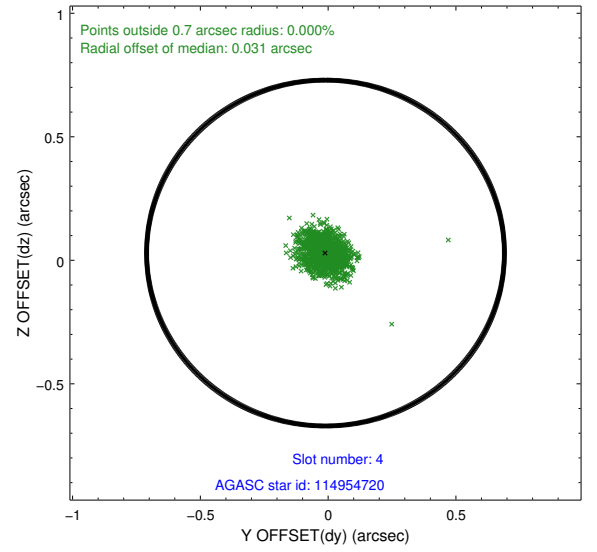
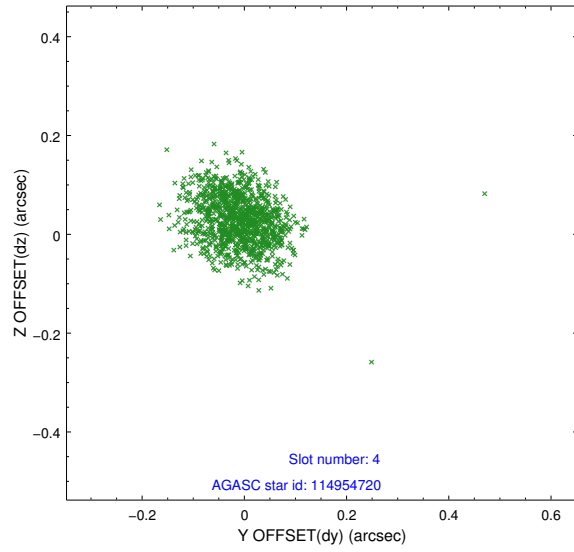


## 2.4 Star Slots

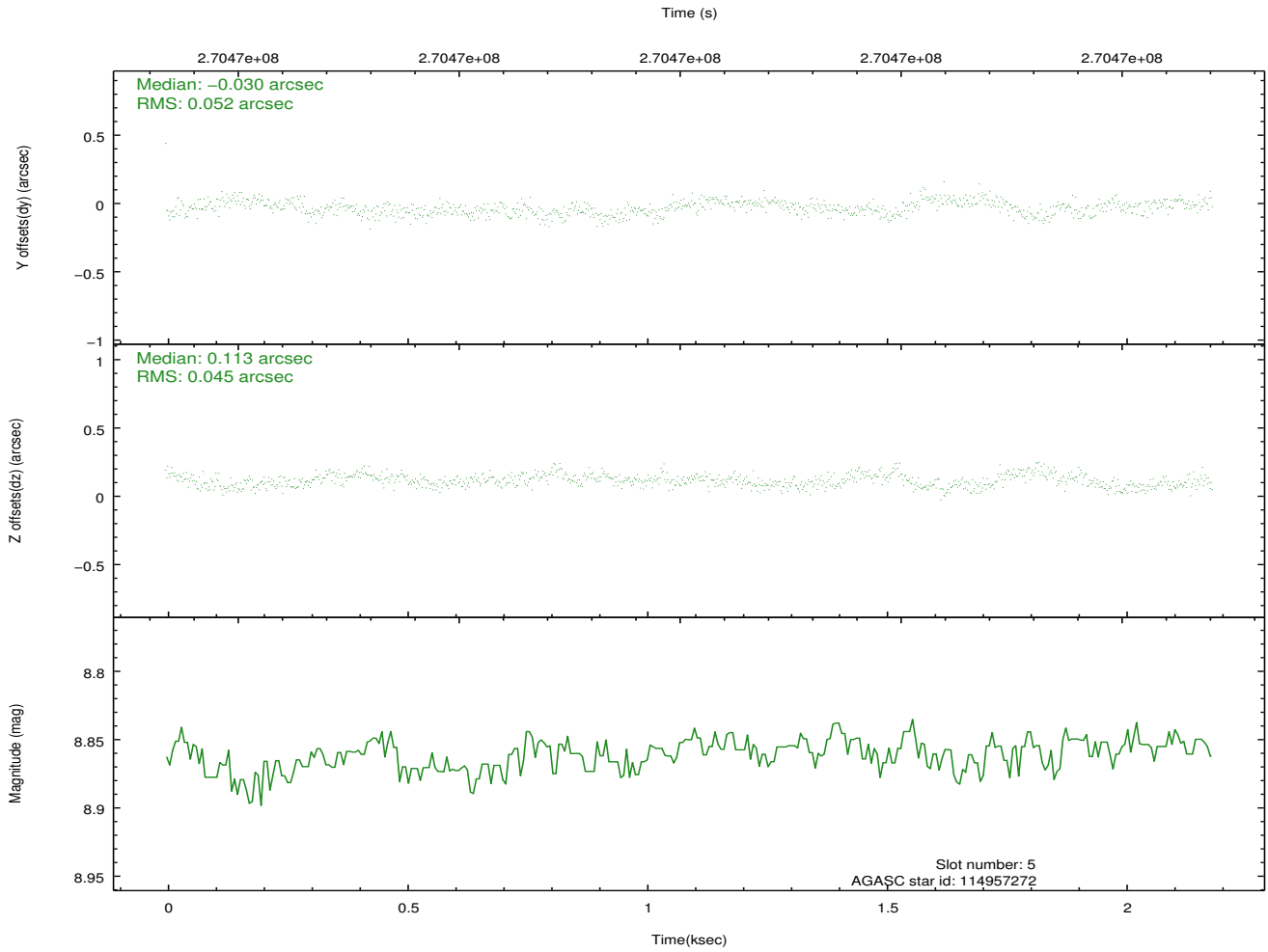
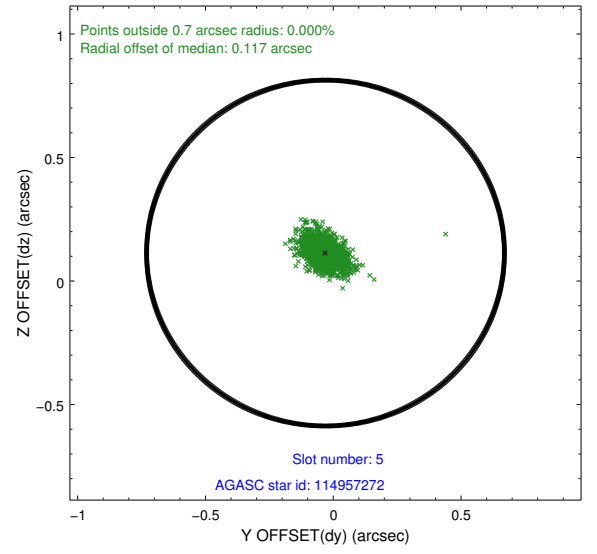
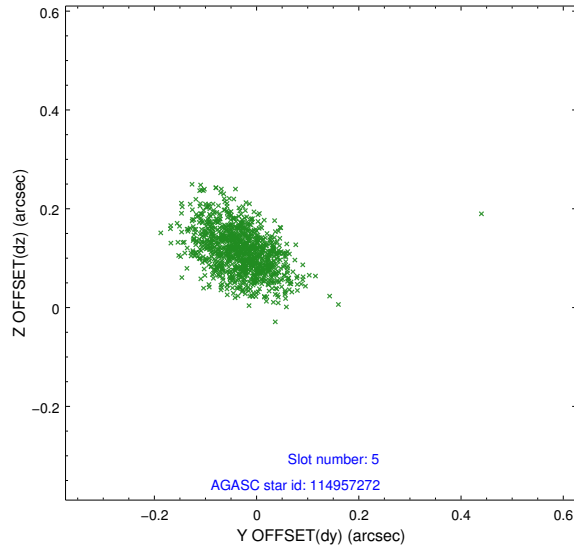
### 2.4.1 Slot 3



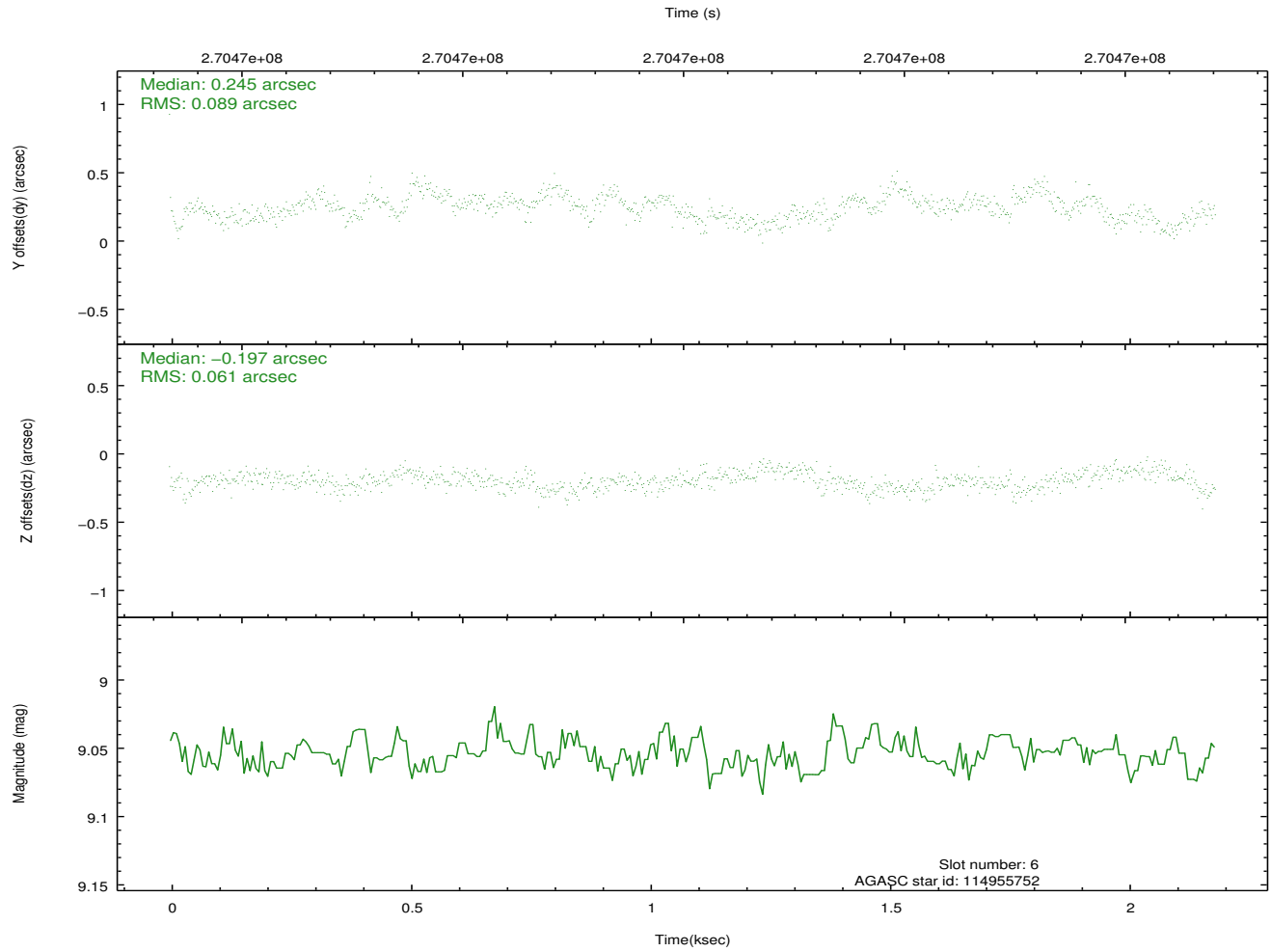
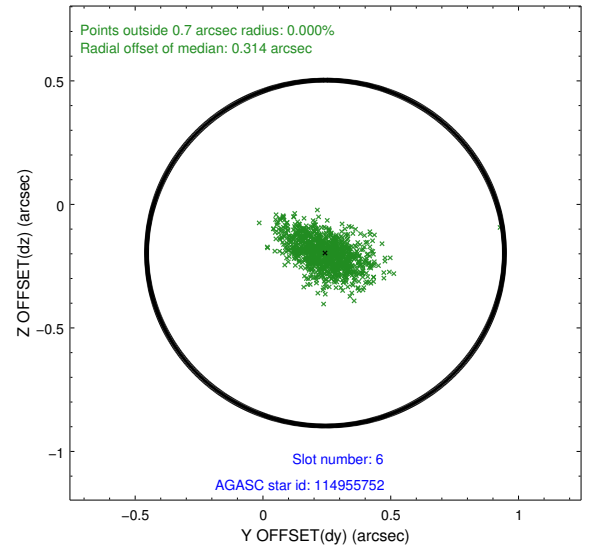
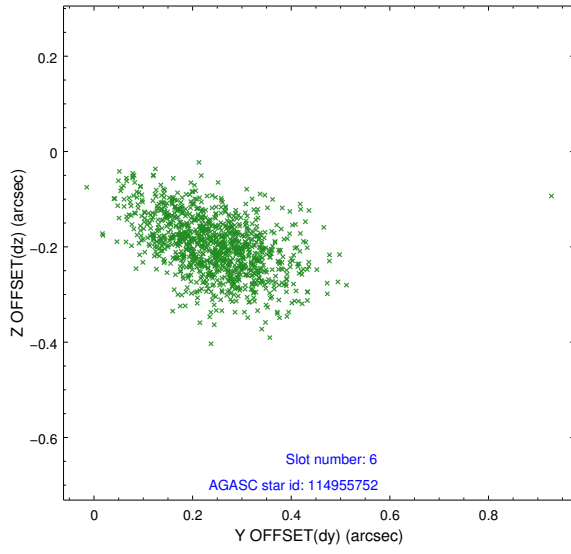
## 2.4.2 Slot 4



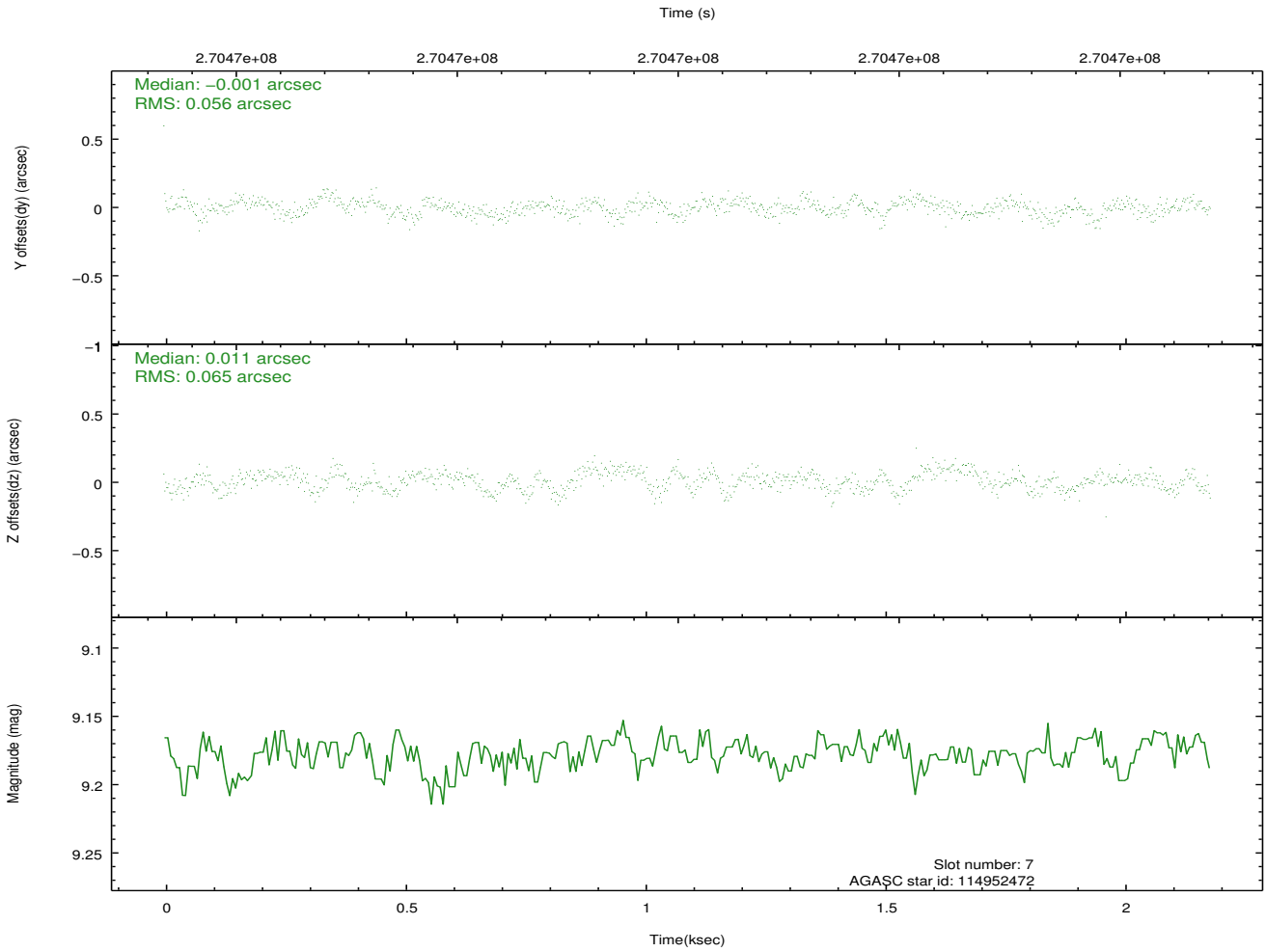
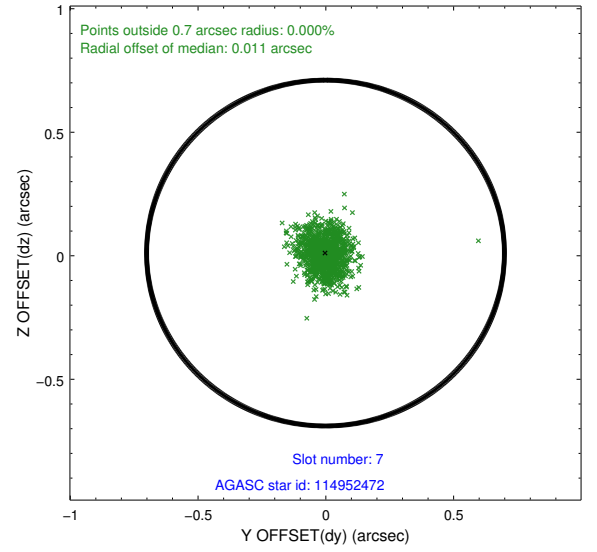
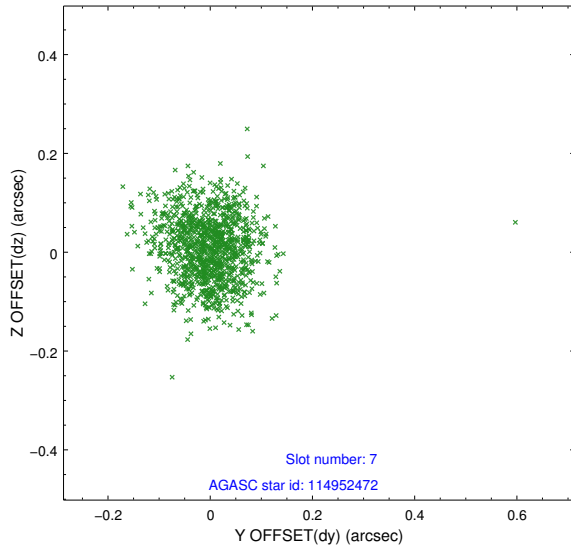
### 2.4.3 Slot 5



## 2.4.4 Slot 6

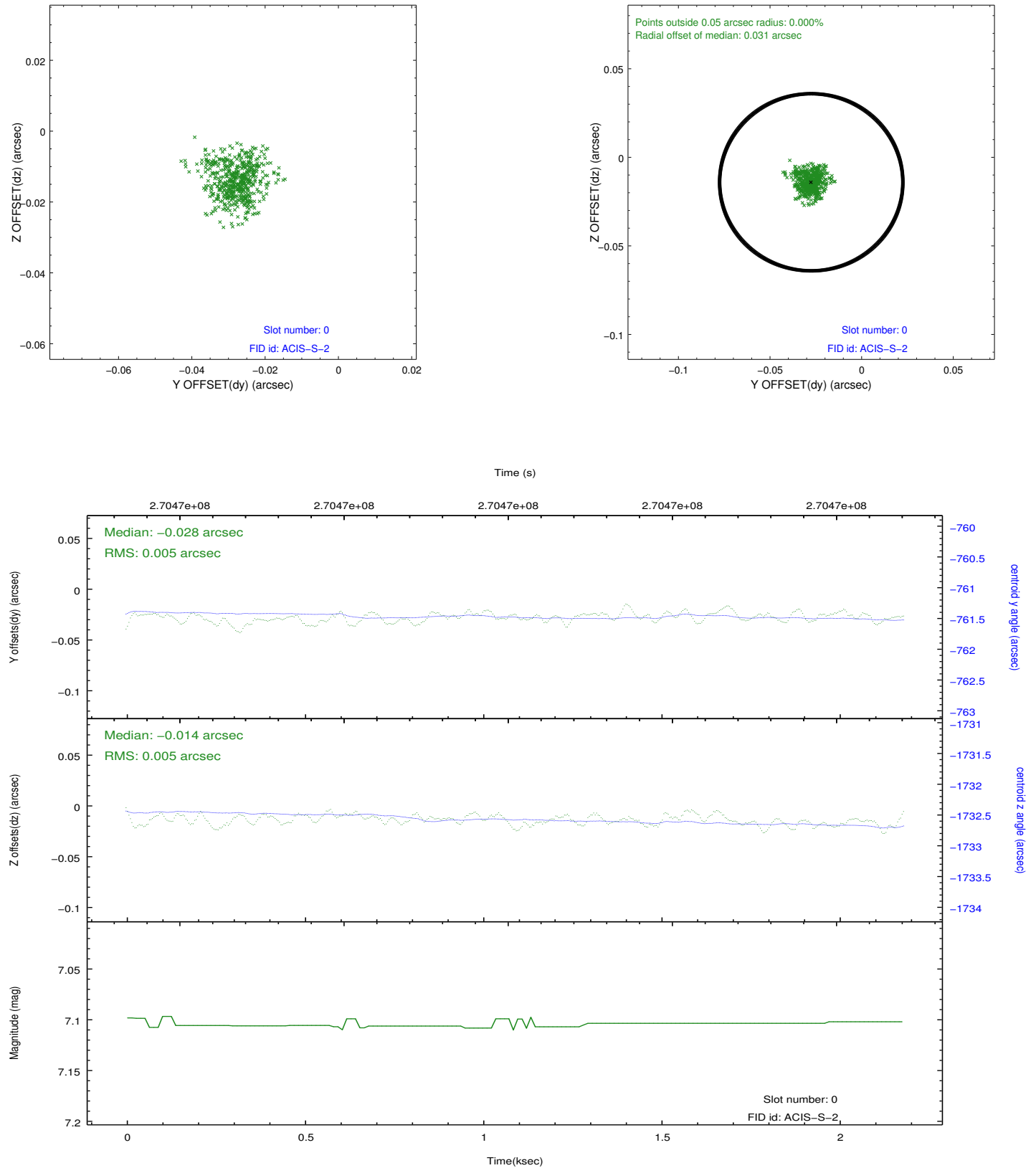


## 2.4.5 Slot 7

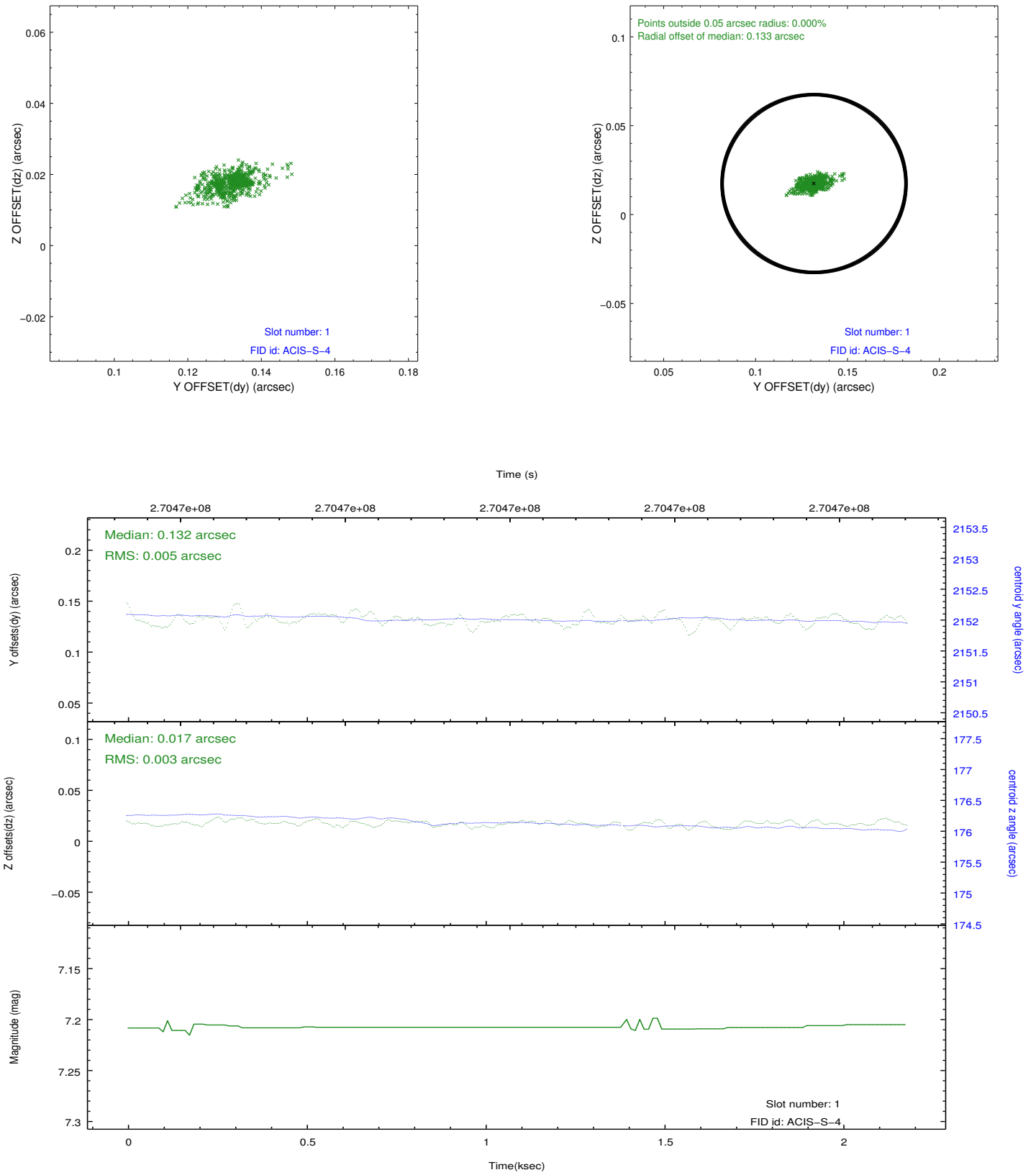


## 2.5 FID Slots

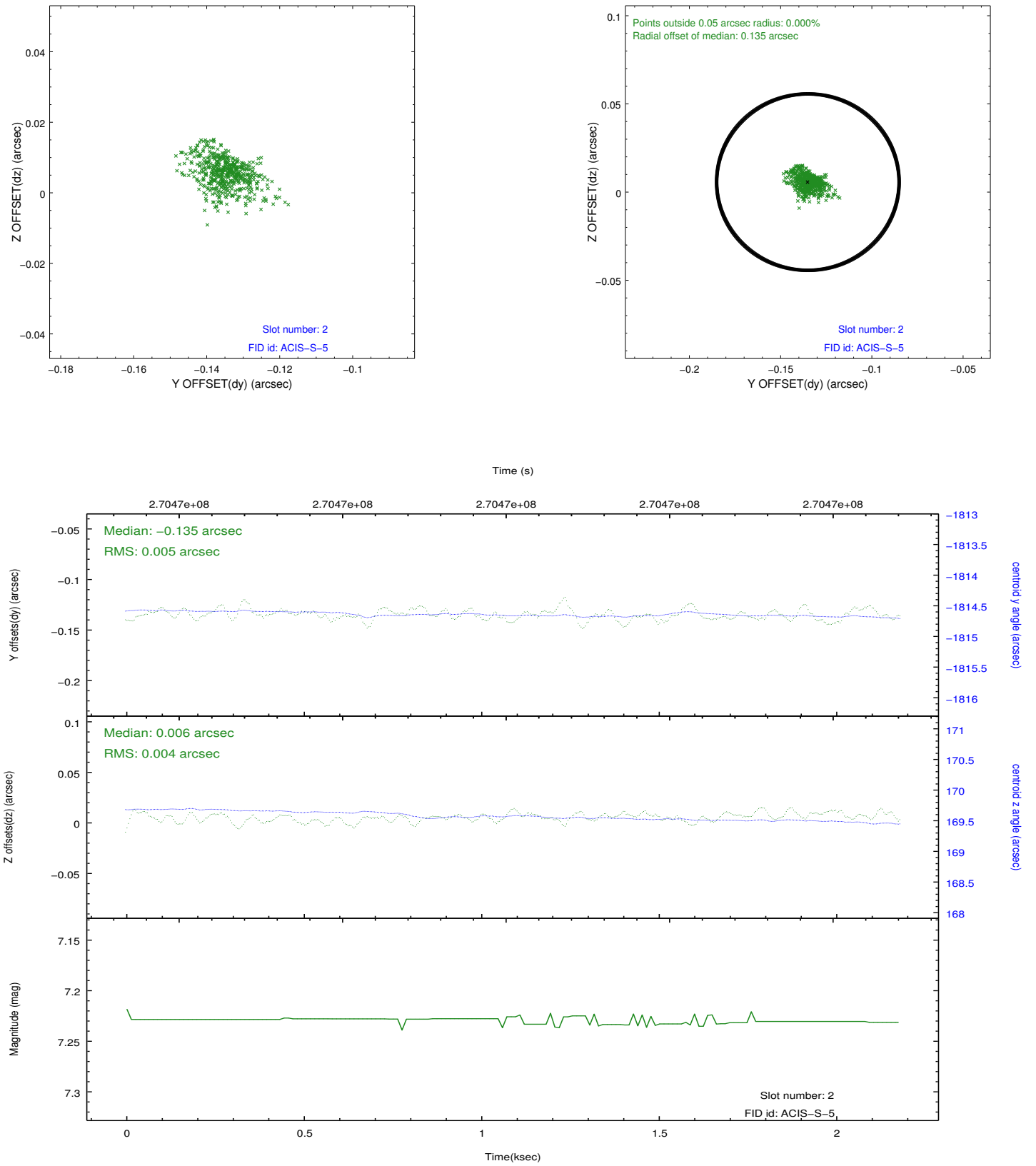
### 2.5.1 Slot 0



## 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)	2012.04.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.17599999

### A.2 Comments