

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 6822 - L2 Version 2  
Chandra X-Ray Center

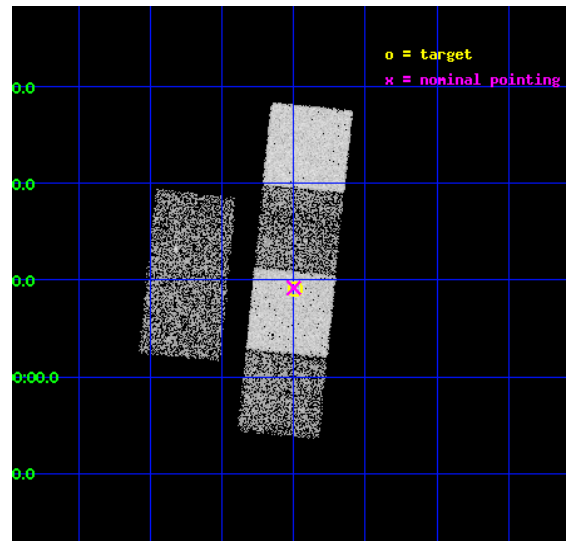
L2 Processing Date : Mar 28 2012

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# 1 Front

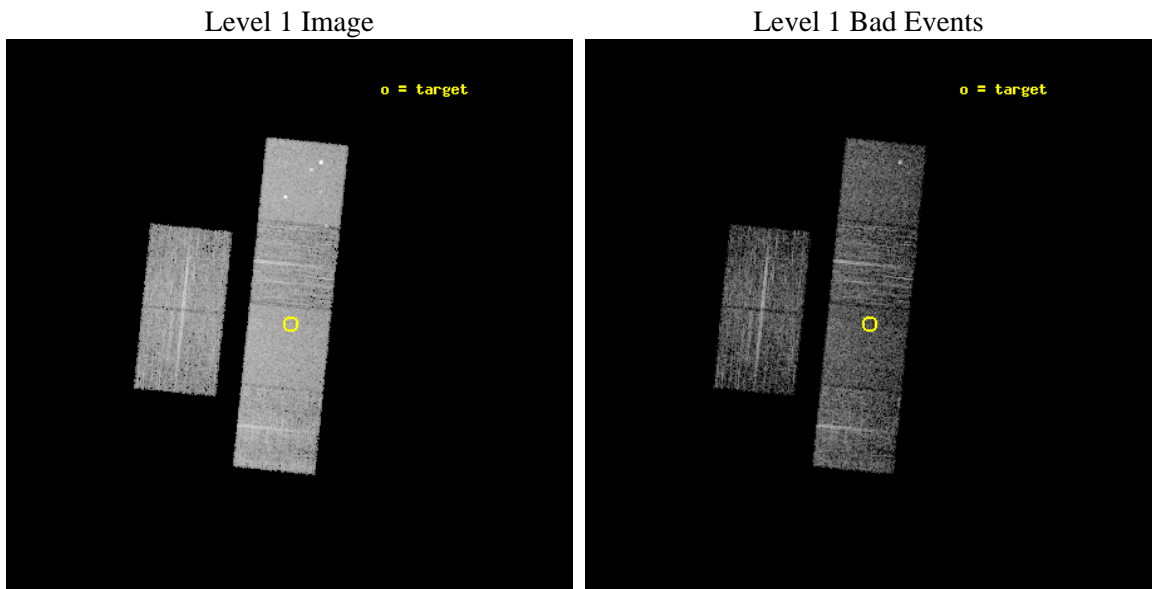
seq_num	701240	Sequence number
obs_id	6822	Observation id
title	Chandra ACIS Snapshot Observations of the Most Luminous Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J2123-0050	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	320.872917	Observer's specified target RA [deg]
dec_targ	-0.848028	Observer's specified target Dec [deg]
ra_nom	320.87454143448	Nominal RA [deg]
dec_nom	-0.84665915589319	Nominal Dec [deg]
roll_nom	95.887888194593	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3953.7801470757	Sum of GTIs [s]
livetime	3903.7150021728	Livetime [s]
ontime2	3953.821187079	Sum of GTIs [s]
ontime3	3953.6570270658	Sum of GTIs [s]
ontime5	3953.7391070724	Sum of GTIs [s]
ontime6	3953.6980670691	Sum of GTIs [s]
ontime7	3953.7801470757	Sum of GTIs [s]
ontime8	3953.6159870923	Sum of GTIs [s]
l2events	57618	Number of level 2 events



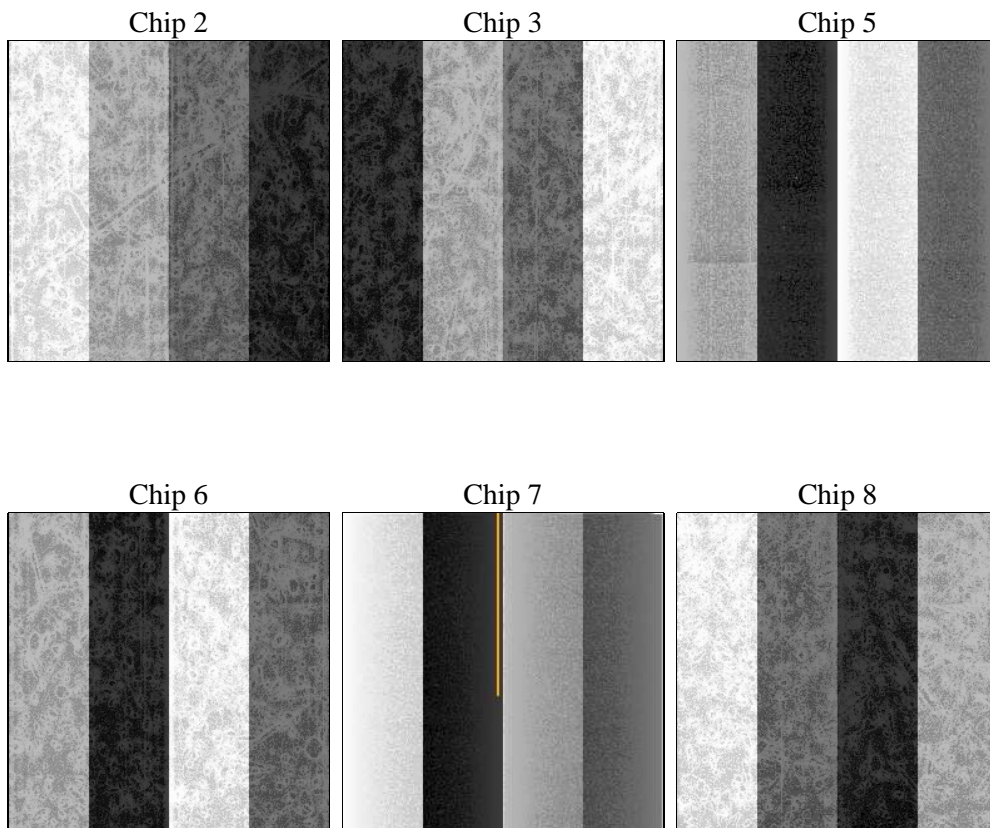
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	3953.7801470757	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	3953.821187079	Sum of GTIs [s]
date	2012-03-28T23:35:57	Date and time of file creation	ontime3	3953.6570270658	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	3953.7391070724	Sum of GTIs [s]
			ontime6	3953.6980670691	Sum of GTIs [s]
			ontime7	3953.7801470757	Sum of GTIs [s]
			ontime8	3953.6159870923	Sum of GTIs [s]
			l1events	251150	Number of level 1 events

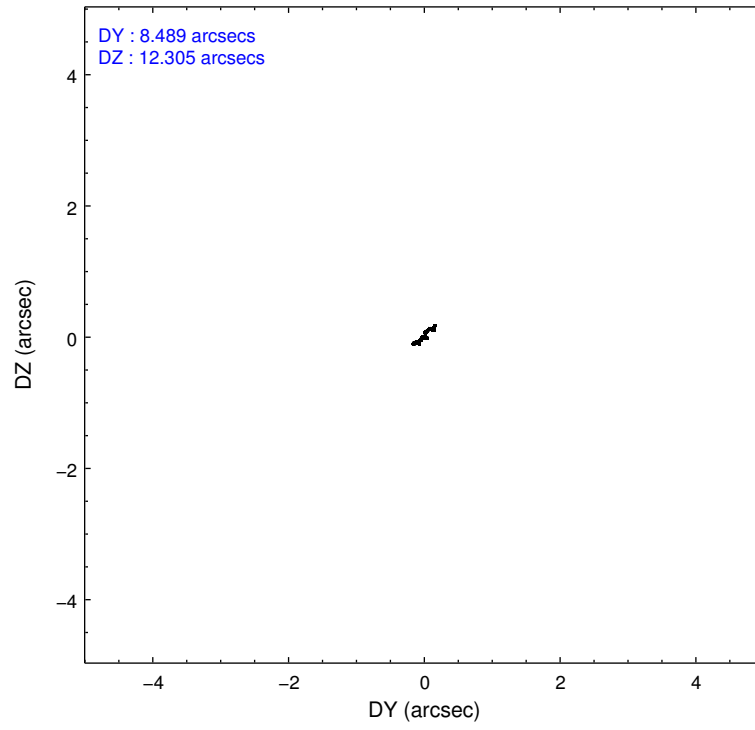
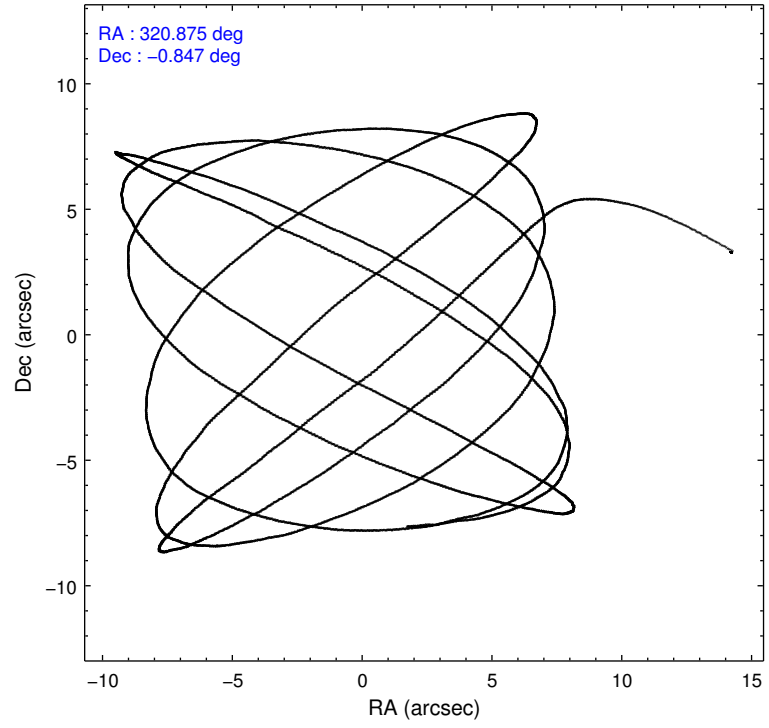
### 2.1.4 Events

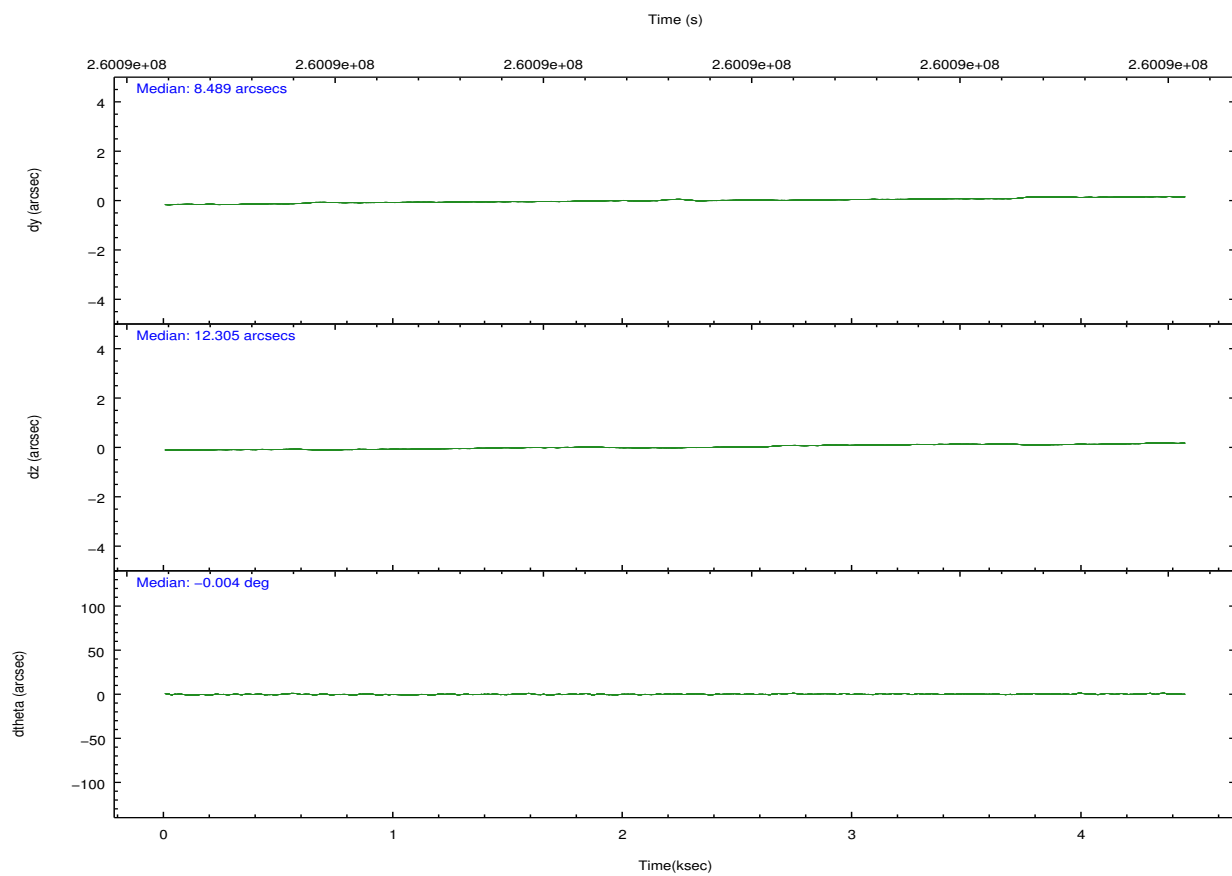
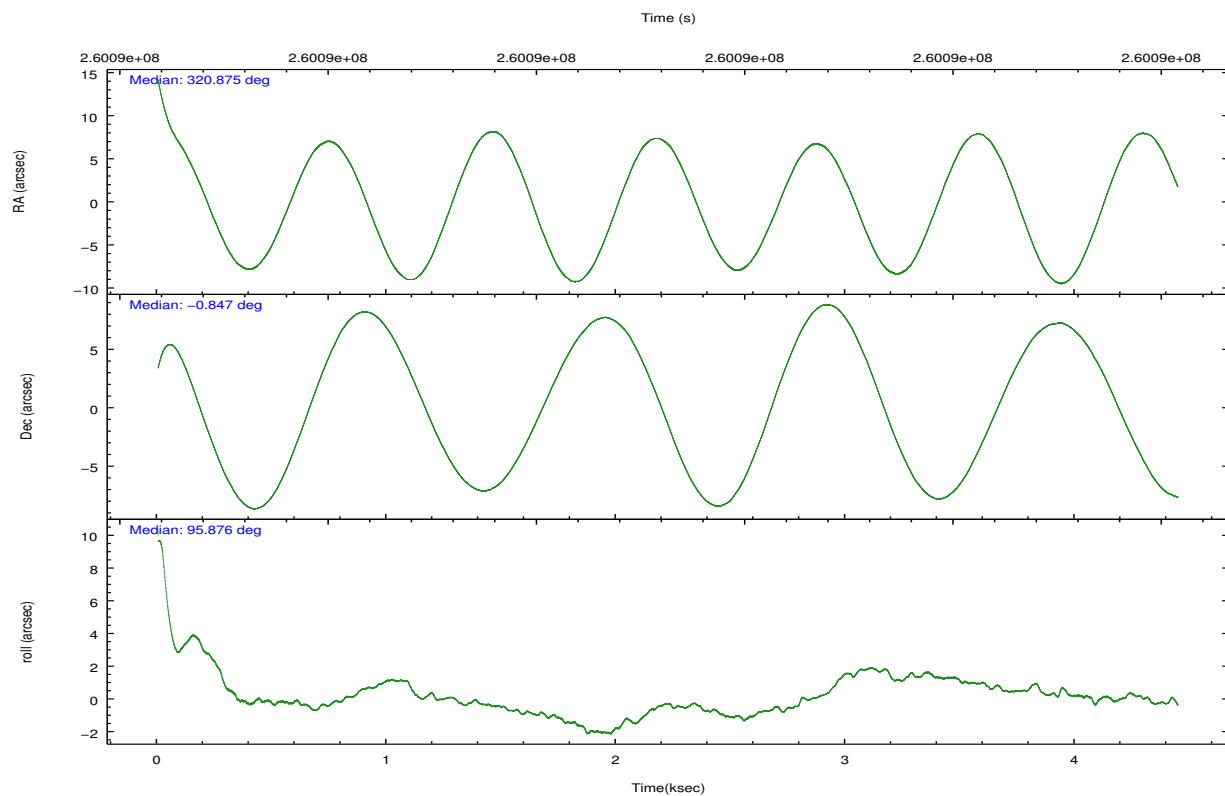
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	34726	33119	54794	36374	47710	44427	grade 0 events	1919	1778	3134	1745	1751	3123
rejected events	30497	29101	28839	32074	27674	34415		5%	5%	5%	4%	3%	7%
rejected %	87%	87%	52%	88%	58%	77%	grade 1 events	22	11	390	15	37	31
								0%	0%	0%	0%	0%	0%
							grade 2 events	843	749	8044	922	4096	2188
								2%	2%	14%	2%	8%	4%
							grade 3 events	379	408	972	404	1685	1159
								1%	1%	1%	1%	3%	2%
							grade 4 events	407	397	937	390	1760	1019
								1%	1%	1%	1%	3%	2%
							grade 5 events	1335	1646	3878	1644	4427	2062
								3%	4%	7%	4%	9%	4%
							grade 6 events	684	692	12885	843	10755	2524
								1%	2%	23%	2%	22%	5%
							grade 7 events	29137	27438	24554	30411	23199	32321
								83%	82%	44%	83%	48%	72%

## 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	320.890718	320.8745414344807	Subarray requested	NONE	NONE
[deg] Pointing Dec	-0.868463	-0.8466591558931871	Alternating exposures requested	N	N
[deg] Pointing Roll	95.731484	95.88788819459251	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	260089862.184000	260088762.95766			
Observation start date	2006-03-30T07:09:57	2006-03-30T06:52:42			
[s] Observation end time (MET)	260093862.184000	260095358.32047			
Observation end date	2006-03-30T08:16:37	2006-03-30T08:42:38			
Read mode	TIMED	TIMED			

## 2.3 Aspect



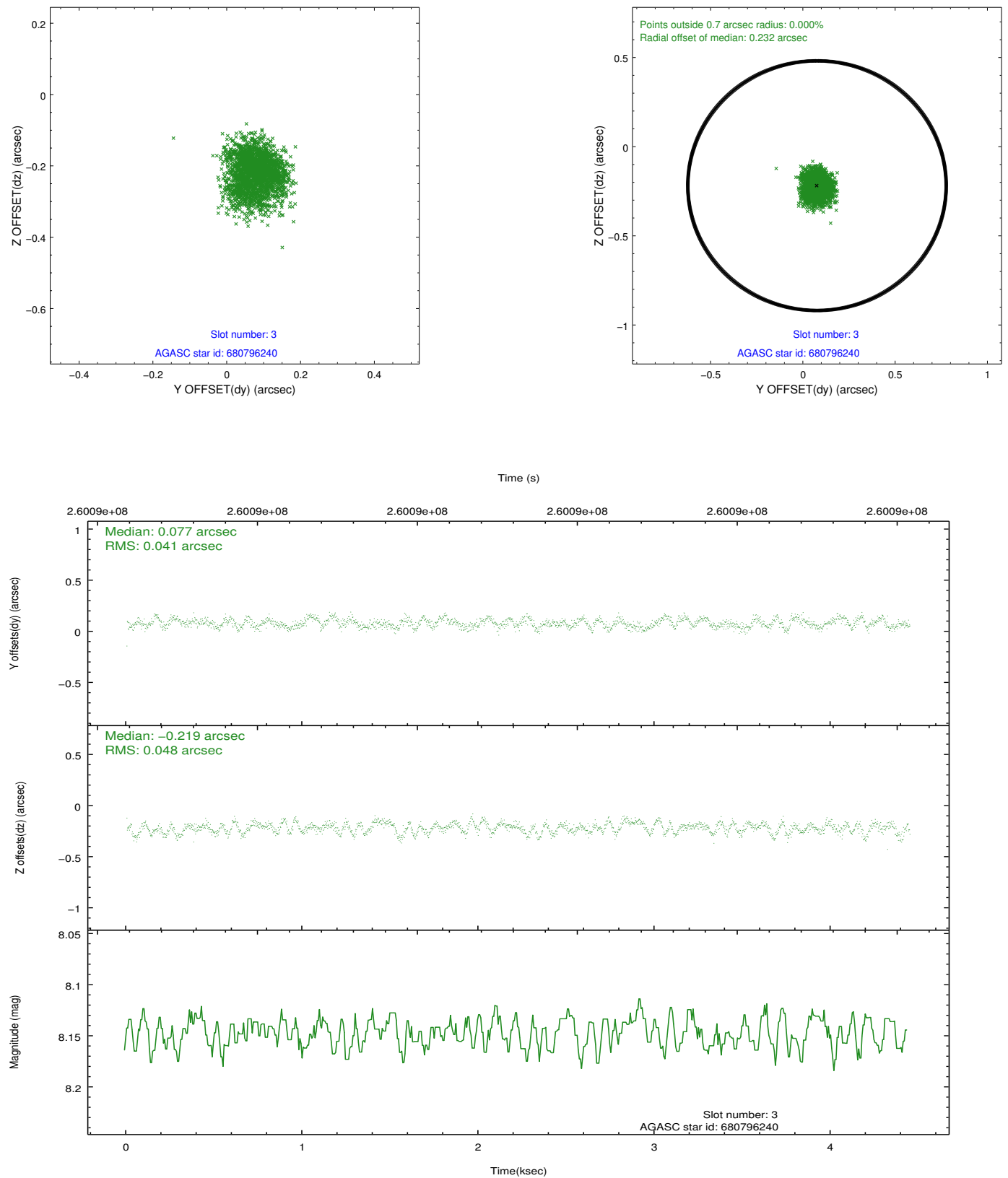


### Slot Statistics

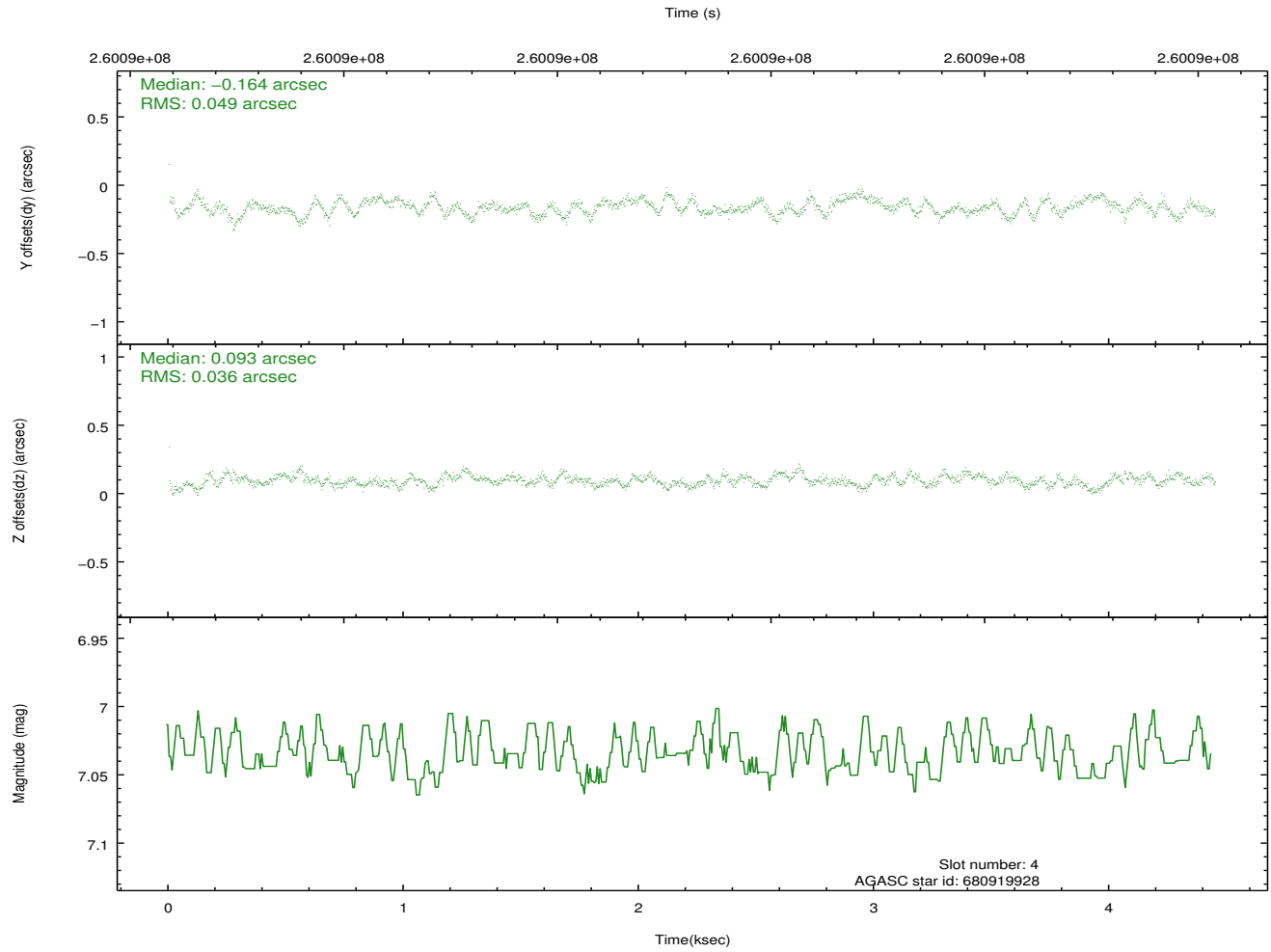
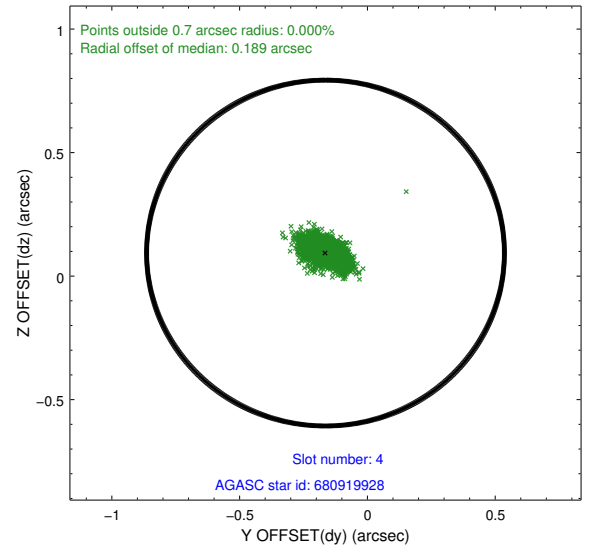
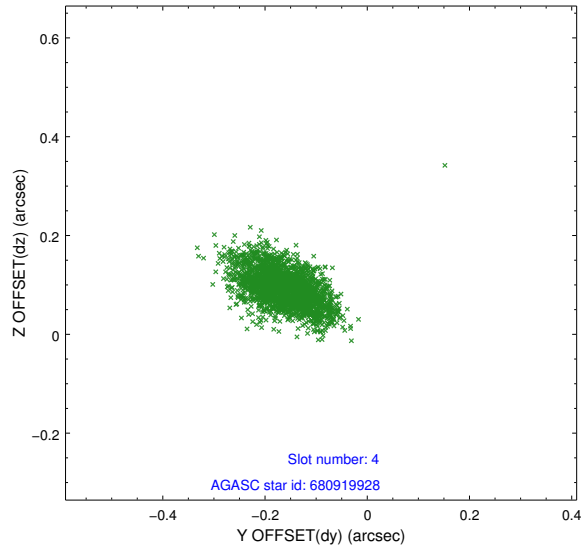
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1085	-0.011	-0.041	0.007	0.012	0.000000	0.000000	-761.30	-1733.67
1	FID	ACIS-S-4	7.20	1085	0.122	0.016	0.006	0.011	0.000000	0.000000	2151.49	173.41
2	FID	ACIS-S-5	7.23	1085	-0.142	0.033	0.008	0.014	0.000000	0.000000	-1812.48	168.71
3	GUIDE	680796240	8.15	2170	0.077	-0.219	0.067	0.106	320.380797	-0.836847	296.44	1815.37
4	GUIDE	680919928	7.03	2170	-0.164	0.093	0.063	0.108	321.395543	-0.231933	2099.30	-2035.44
5	GUIDE	680923712	7.22	2170	-0.077	-0.185	0.052	0.083	320.793452	-0.773016	378.15	313.46
6	GUIDE	680921680	8.95	2170	0.202	0.069	0.088	0.142	321.389470	-0.985183	-596.24	-1743.79
7	GUIDE	680927920	9.17	2168	-0.038	0.232	0.097	0.151	321.525468	-0.591689	763.55	-2372.97

## 2.4 Star Slots

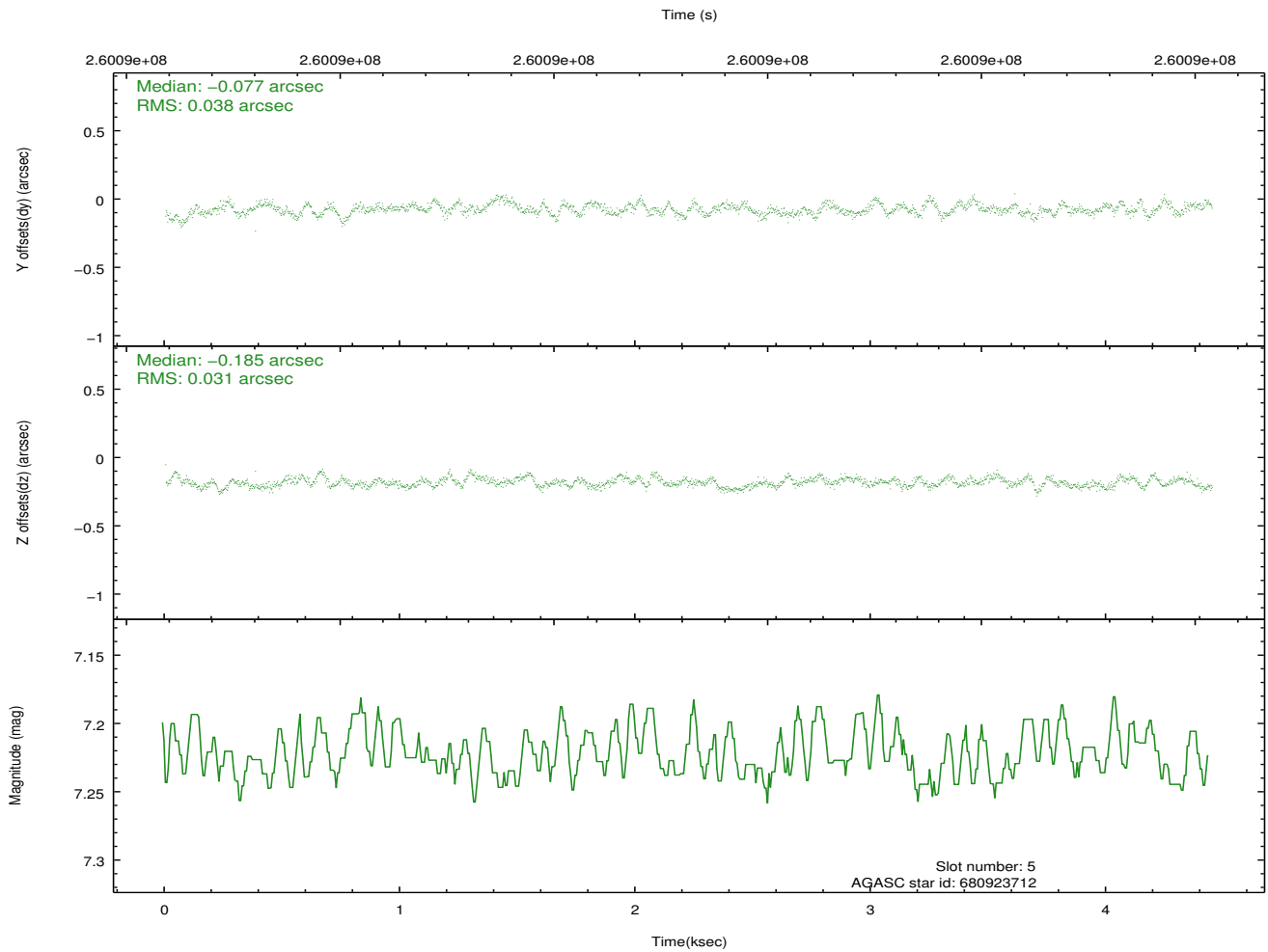
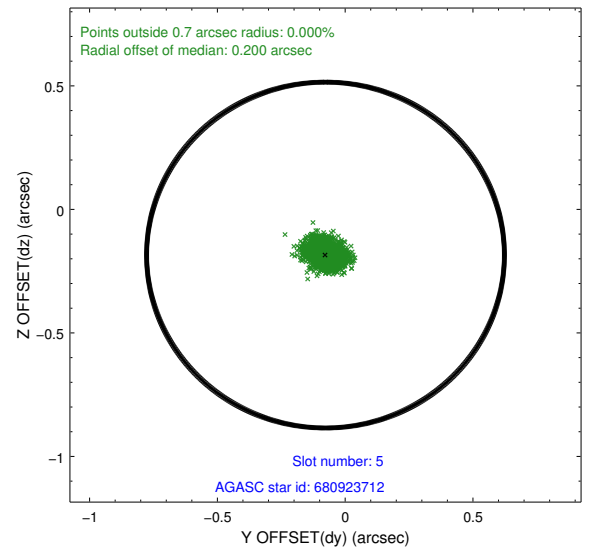
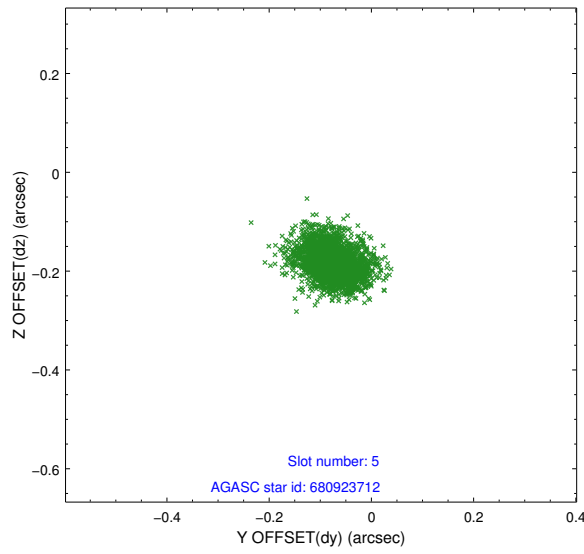
### 2.4.1 Slot 3



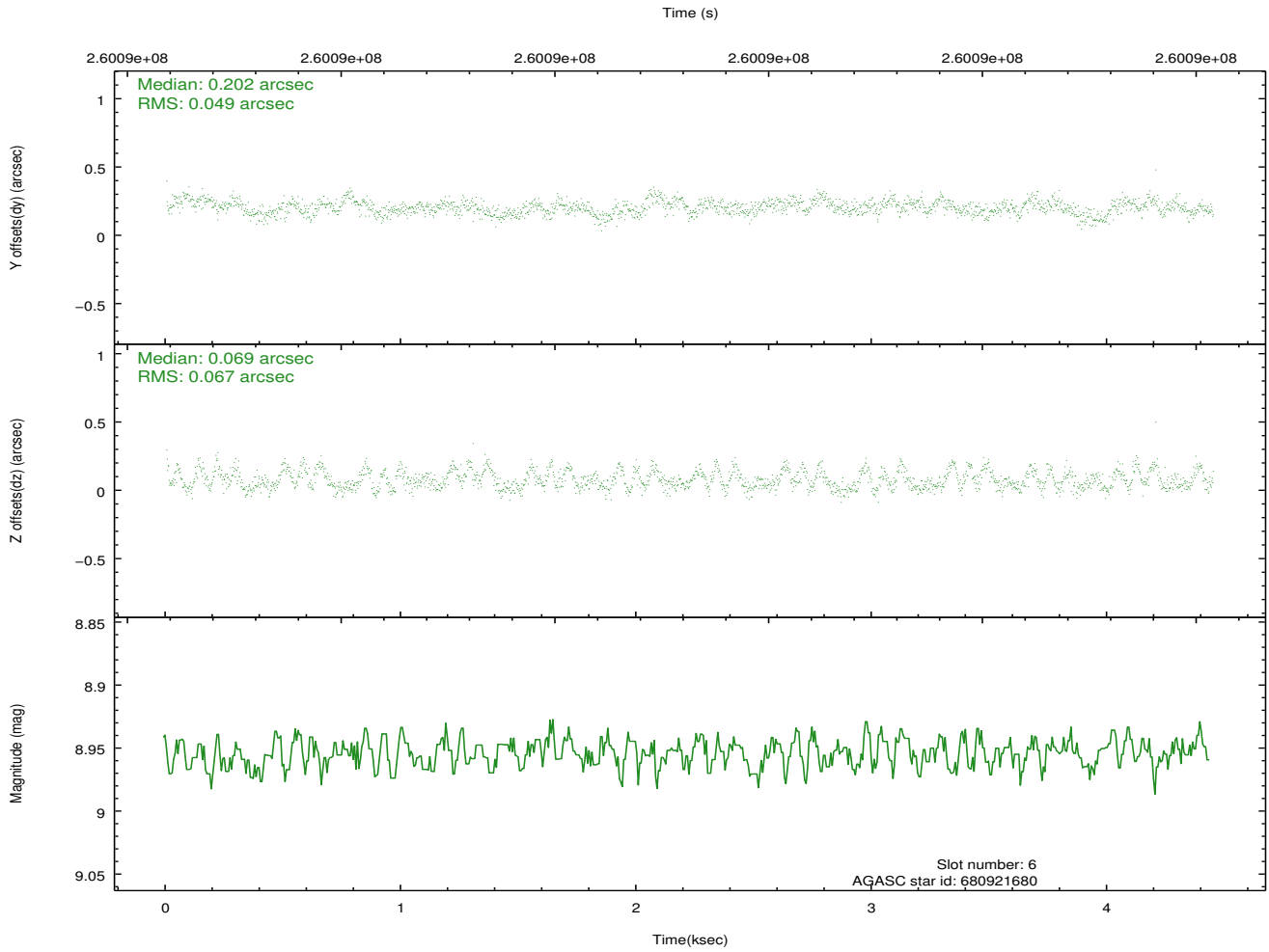
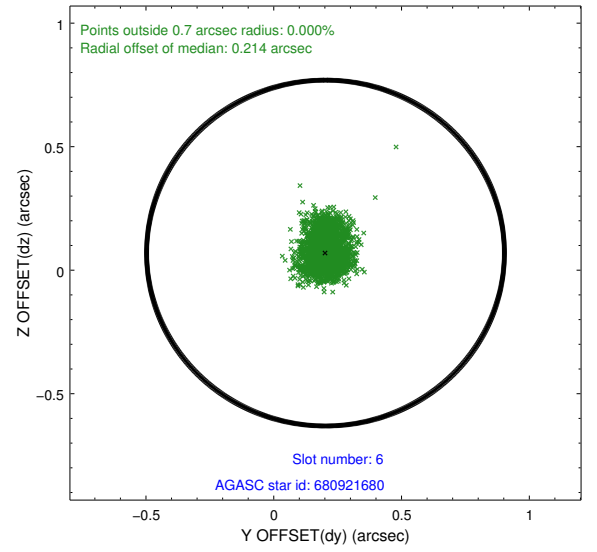
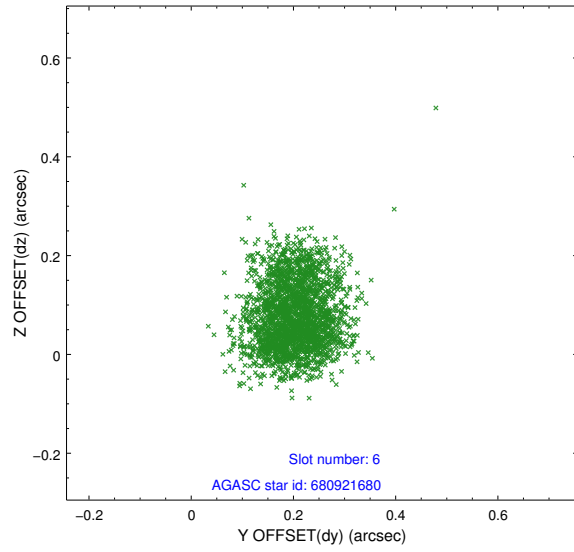
## 2.4.2 Slot 4



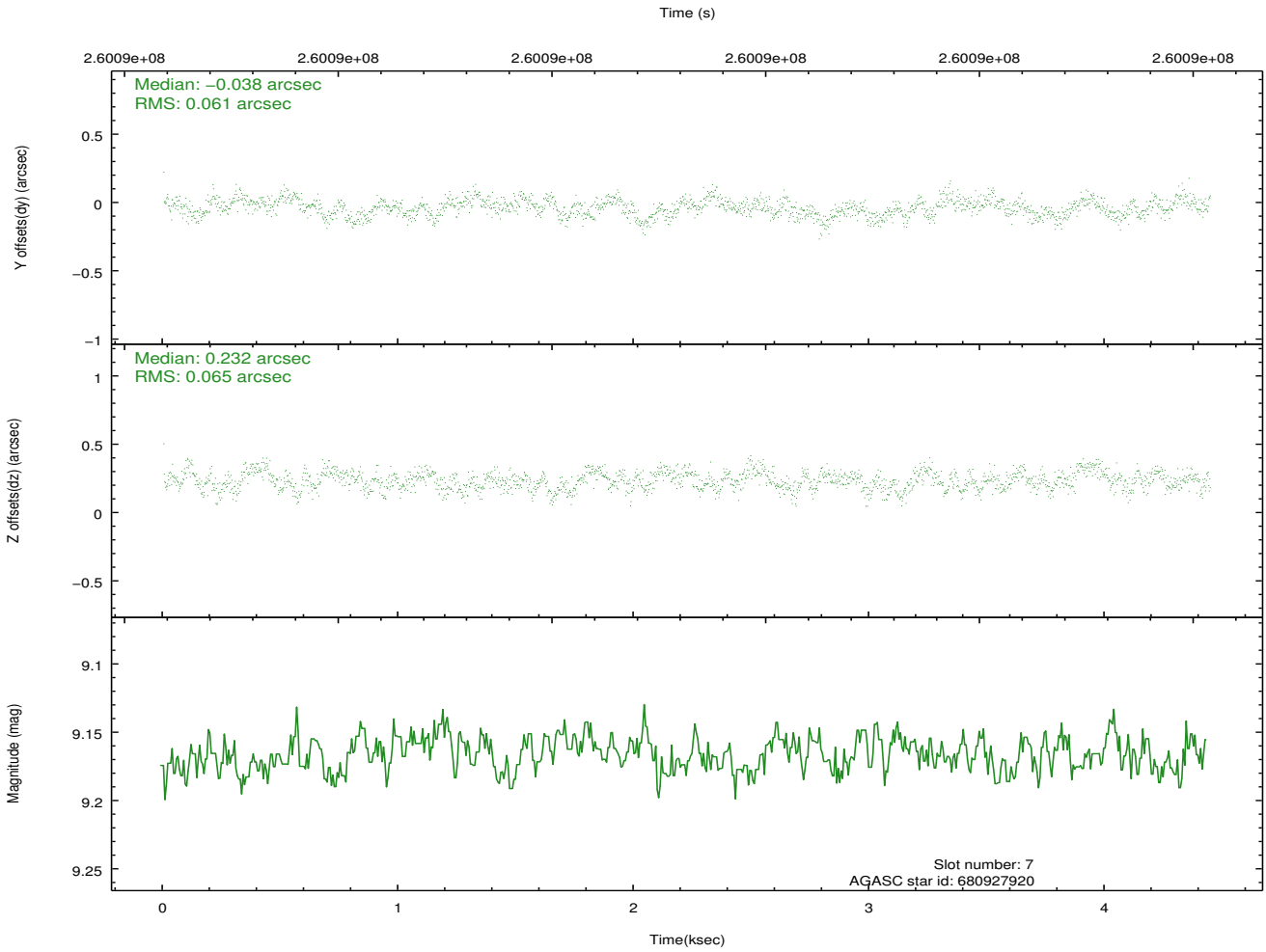
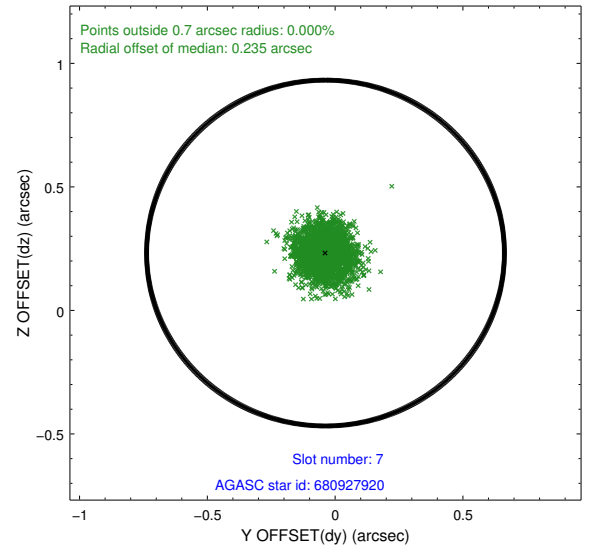
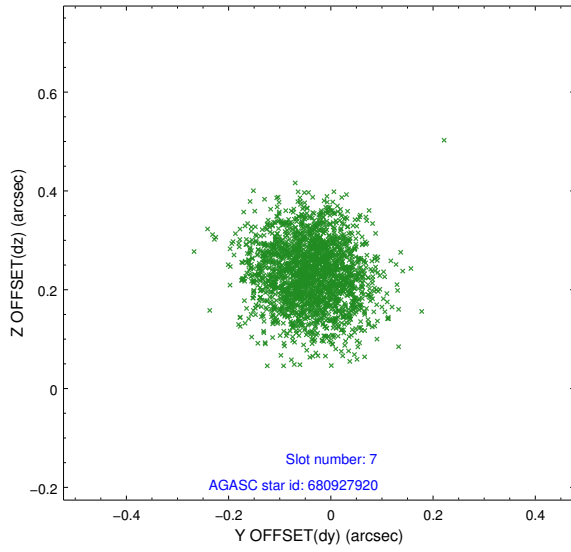
### 2.4.3 Slot 5



## 2.4.4 Slot 6

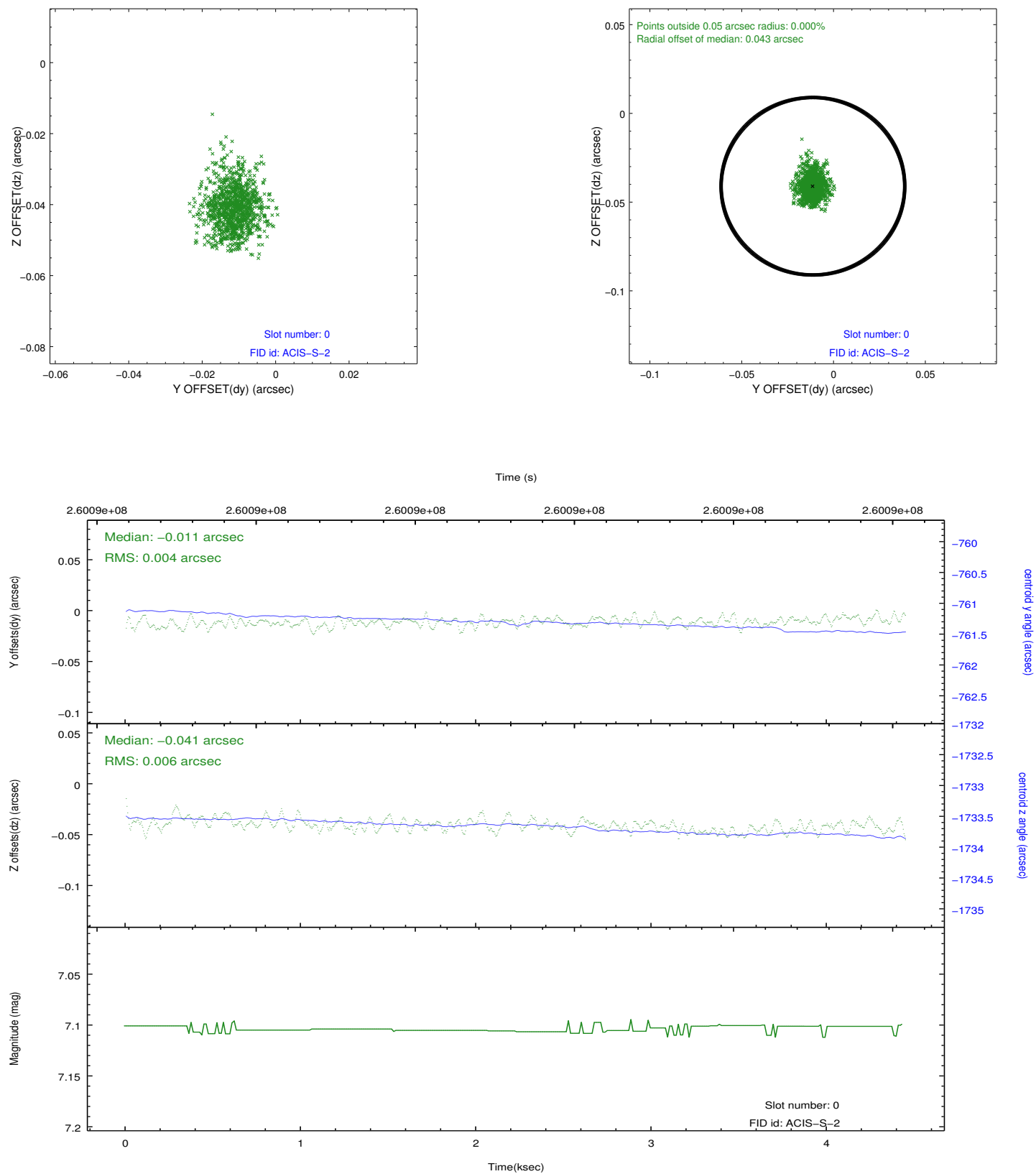


## 2.4.5 Slot 7

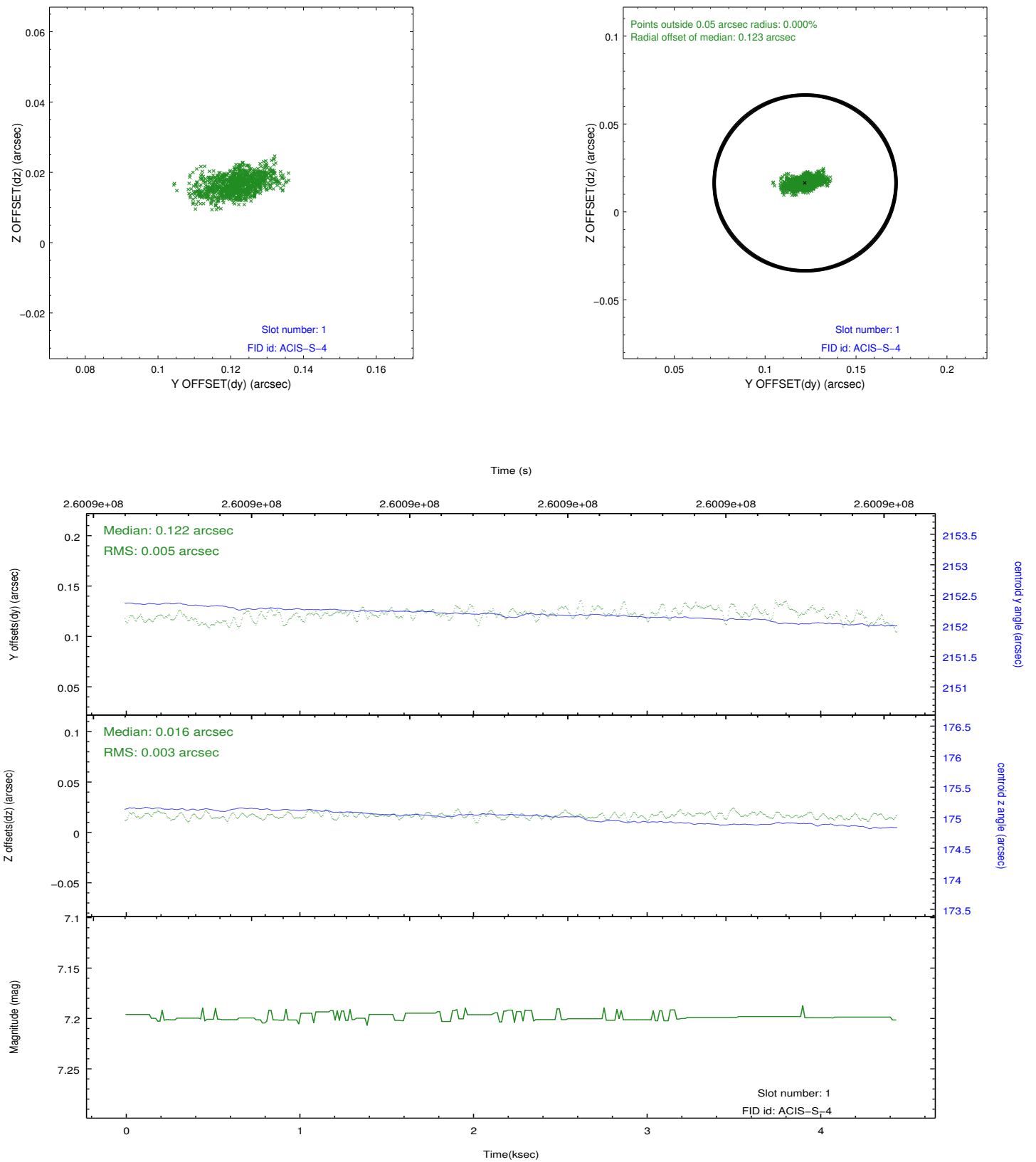


## 2.5 FID Slots

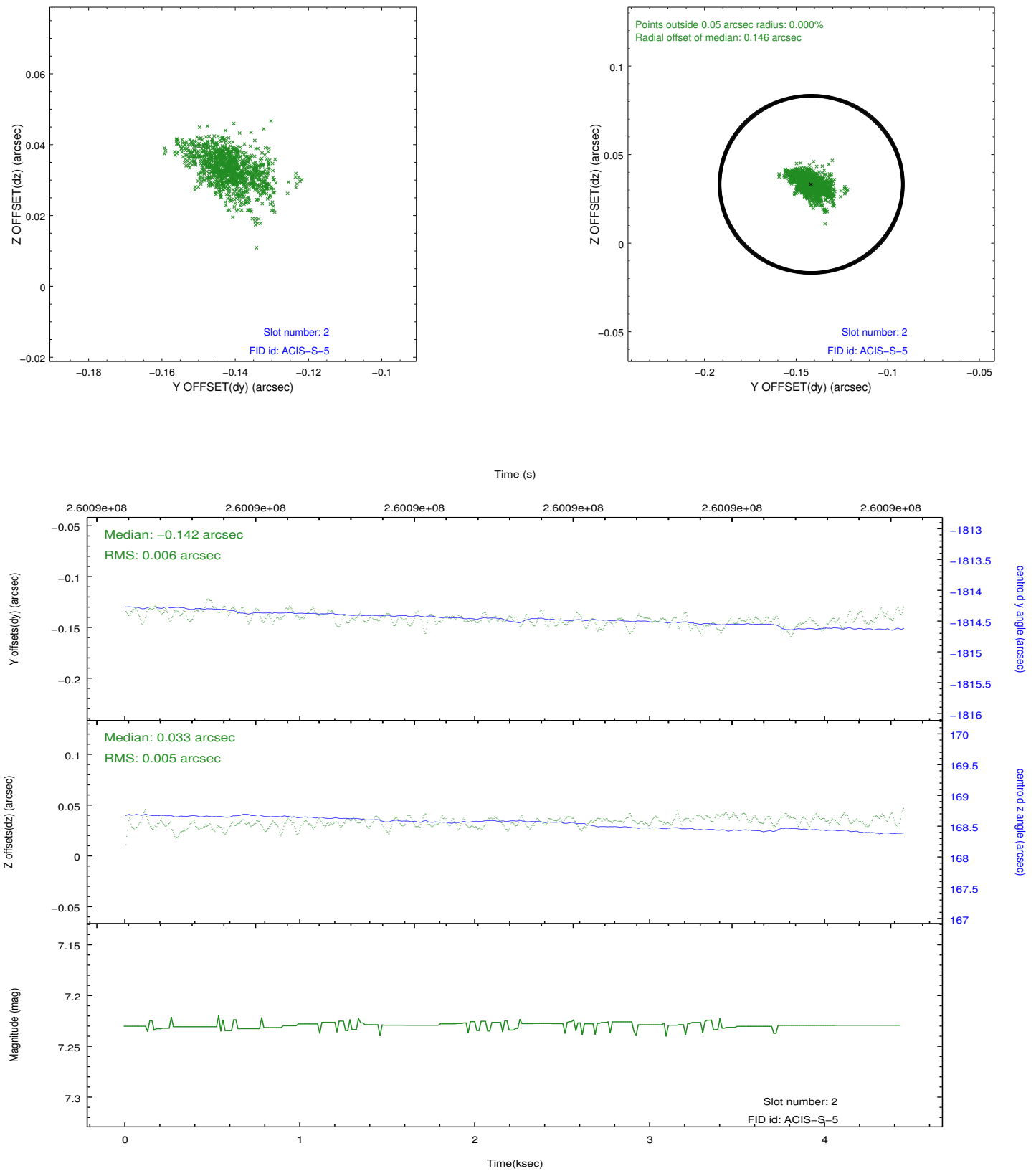
### 2.5.1 Slot 0



## 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)	2012.03.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.95519998

### **A.2 Comments**