

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 6809 - L2 Version 2  
Chandra X-Ray Center

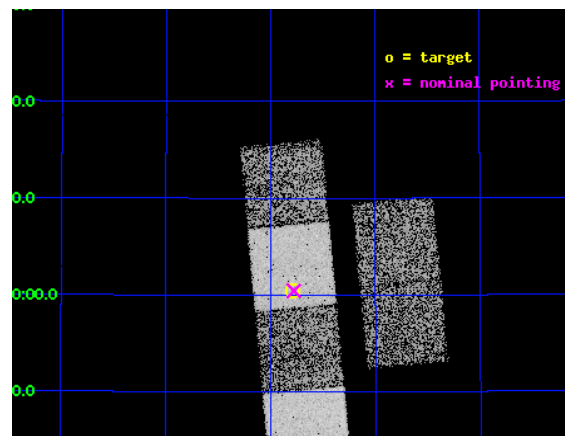
L2 Processing Date : Apr 3 2012

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# 1 Front

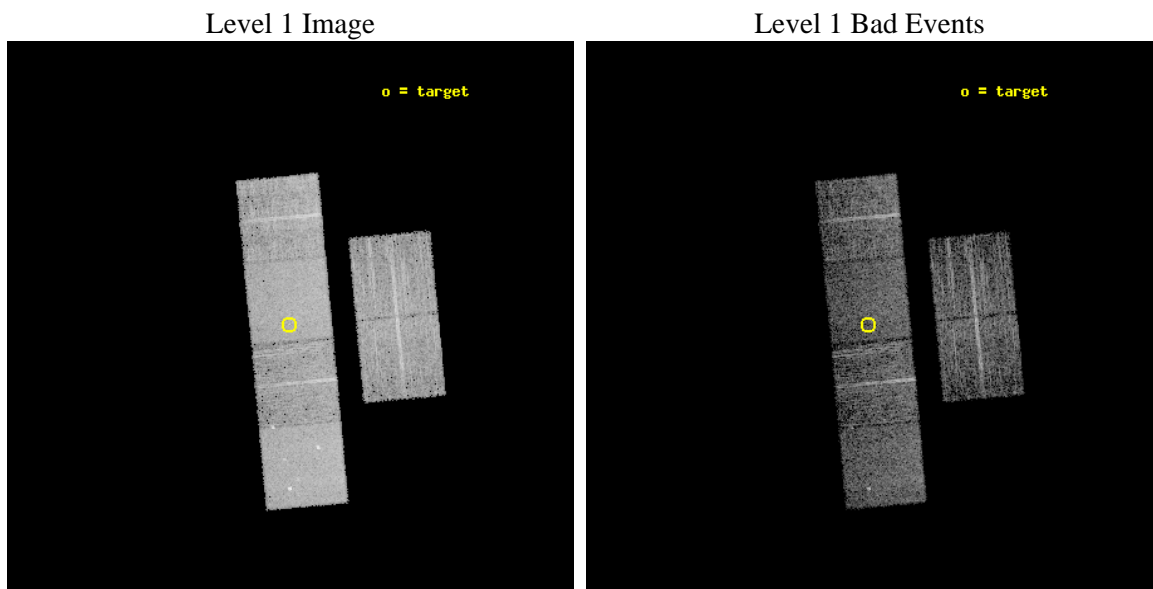
seq_num	701227	Sequence number
obs_id	6809	Observation id
title	Chandra ACIS Snapshot Observations of the Most Luminous Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1014+4300	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	153.696667	Observer's specified target RA [deg]
dec_targ	43.008361	Observer's specified target Dec [deg]
ra_nom	153.69422880304	Nominal RA [deg]
dec_nom	43.007178241531	Nominal Dec [deg]
roll_nom	264.65438503168	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4182.3999844193	Sum of GTIs [s]
livetime	4129.4399174777	Livetime [s]
ontime2	4182.3999844193	Sum of GTIs [s]
ontime3	4182.3999844193	Sum of GTIs [s]
ontime5	4182.3999844193	Sum of GTIs [s]
ontime6	4182.3999844193	Sum of GTIs [s]
ontime7	4182.3999844193	Sum of GTIs [s]
ontime8	4182.3999844193	Sum of GTIs [s]
l2events	60600	Number of level 2 events



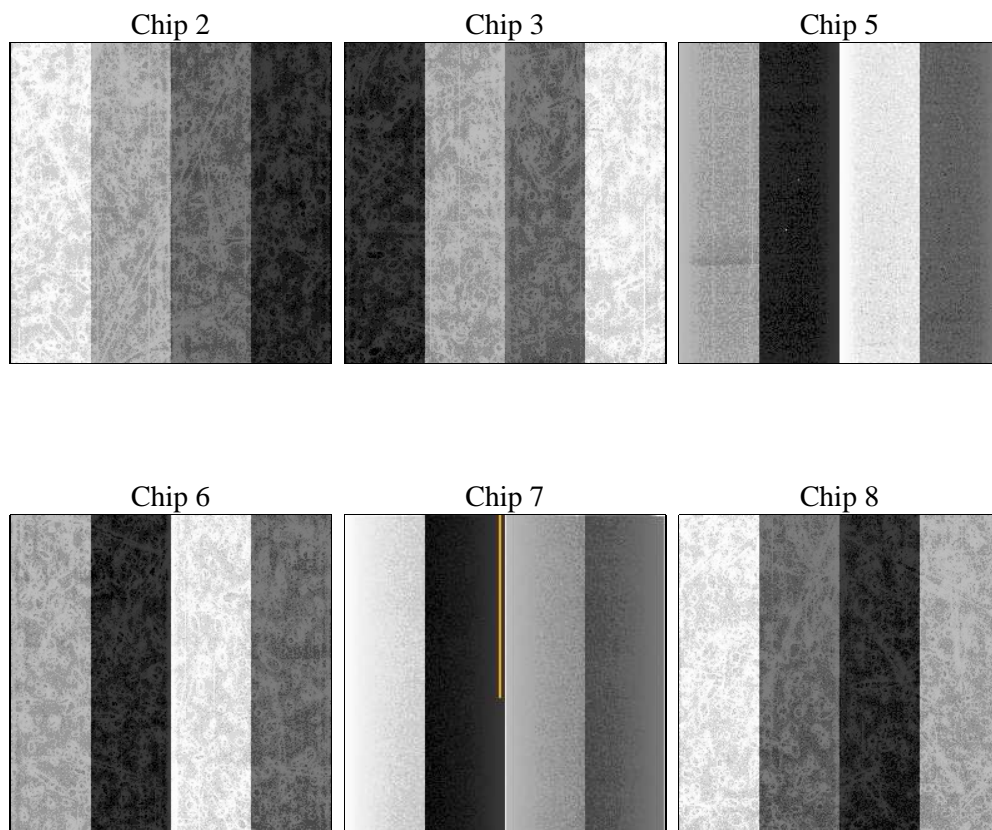
## 2 OBI

### 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	8.4.3.1	Processing system revision	ontime	4182.3999844193	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	4182.3999844193	Sum of GTIs [s]
date	2012-04-03T11:28:30	Date and time of file creation	ontime3	4182.3999844193	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4182.3999844193	Sum of GTIs [s]
			ontime6	4182.3999844193	Sum of GTIs [s]
			ontime7	4182.3999844193	Sum of GTIs [s]
			ontime8	4182.3999844193	Sum of GTIs [s]
			l1events	268488	Number of level 1 events

### 2.1.4 Events

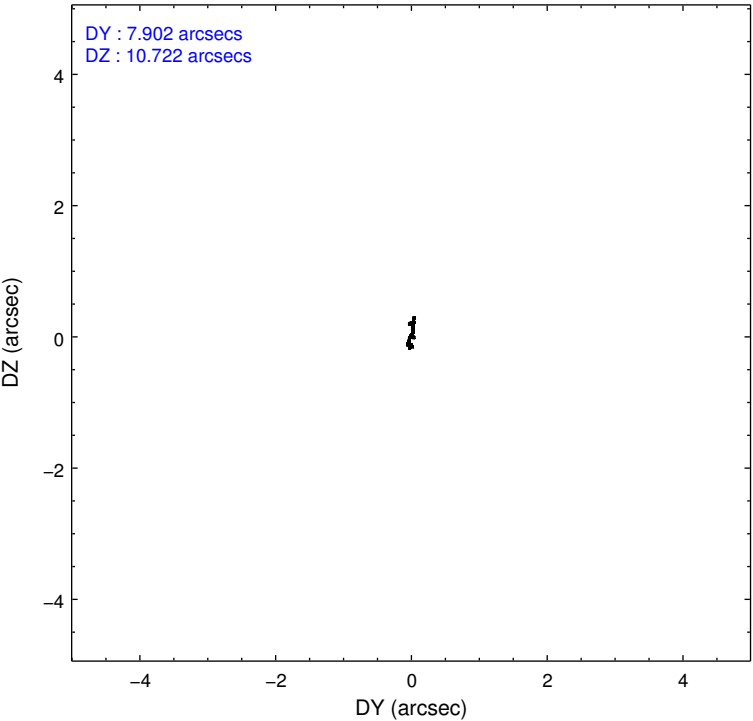
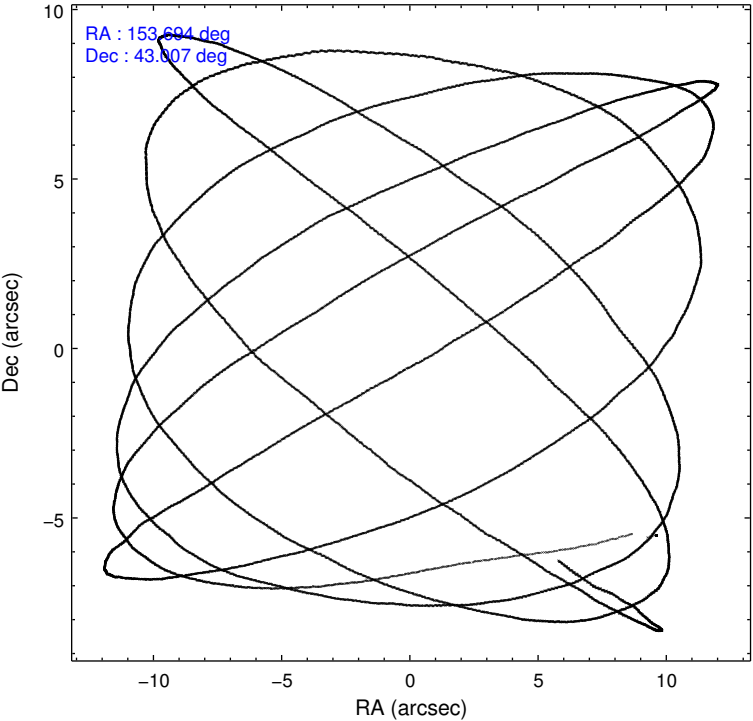
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	36778	38071	57865	37964	51459	46351	grade 0 events	1883	1869	2253	1710	1778	3230
rejected events	32468	33757	31858	33508	30358	36106		5%	4%	3%	4%	3%	6%
rejected %	88%	88%	55%	88%	58%	77%	grade 1 events	26	23	141	17	57	37
								0%	0%	0%	0%	0%	0%
							grade 2 events	839	862	8051	974	4319	2435
								2%	2%	13%	2%	8%	5%
							grade 3 events	440	440	918	468	1822	1003
								1%	1%	1%	1%	3%	2%
							grade 4 events	434	402	843	426	1799	1039
								1%	1%	1%	1%	3%	2%
							grade 5 events	1405	1651	3942	1641	4769	2183
								3%	4%	6%	4%	9%	4%
							grade 6 events	764	778	14136	924	11561	2676
								2%	2%	24%	2%	22%	5%
							grade 7 events	30987	32046	27581	31804	25354	33748
								84%	84%	47%	83%	49%	72%

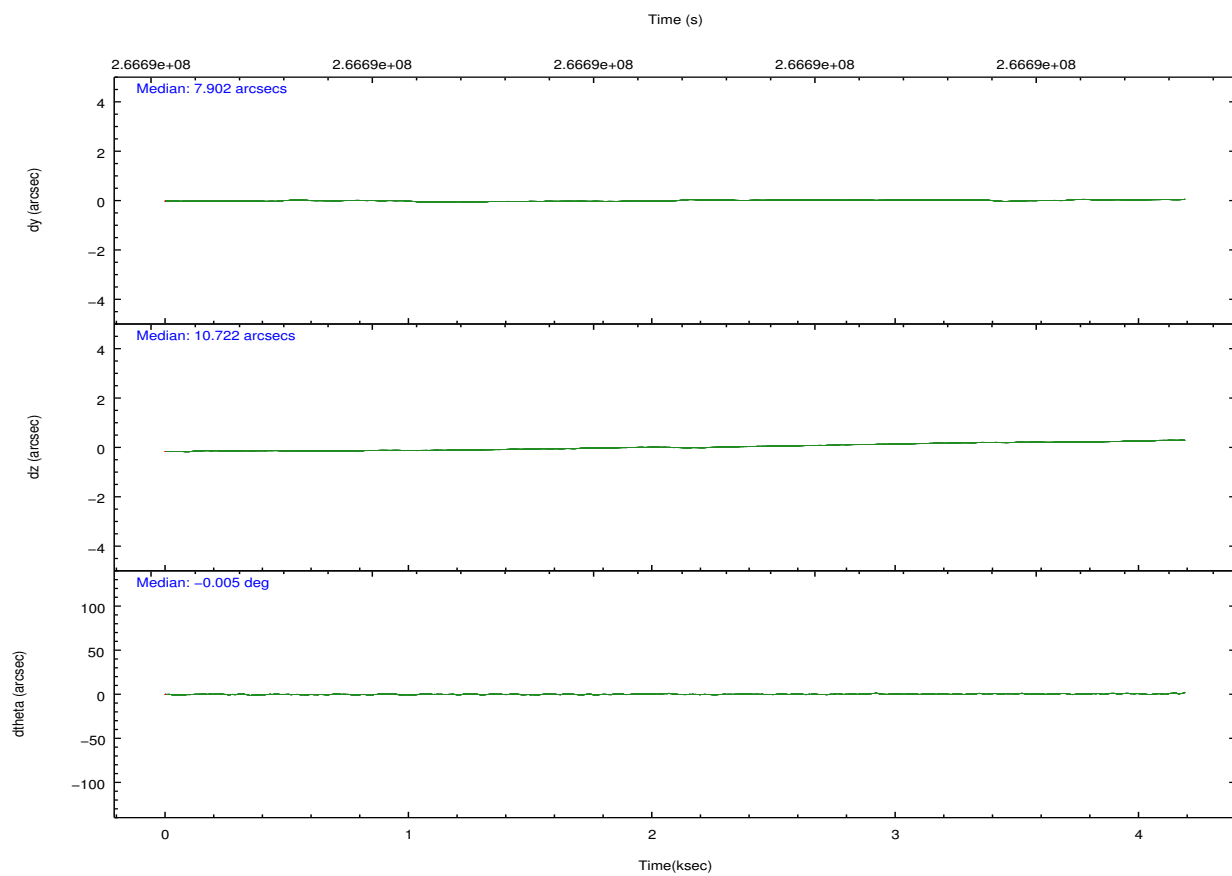
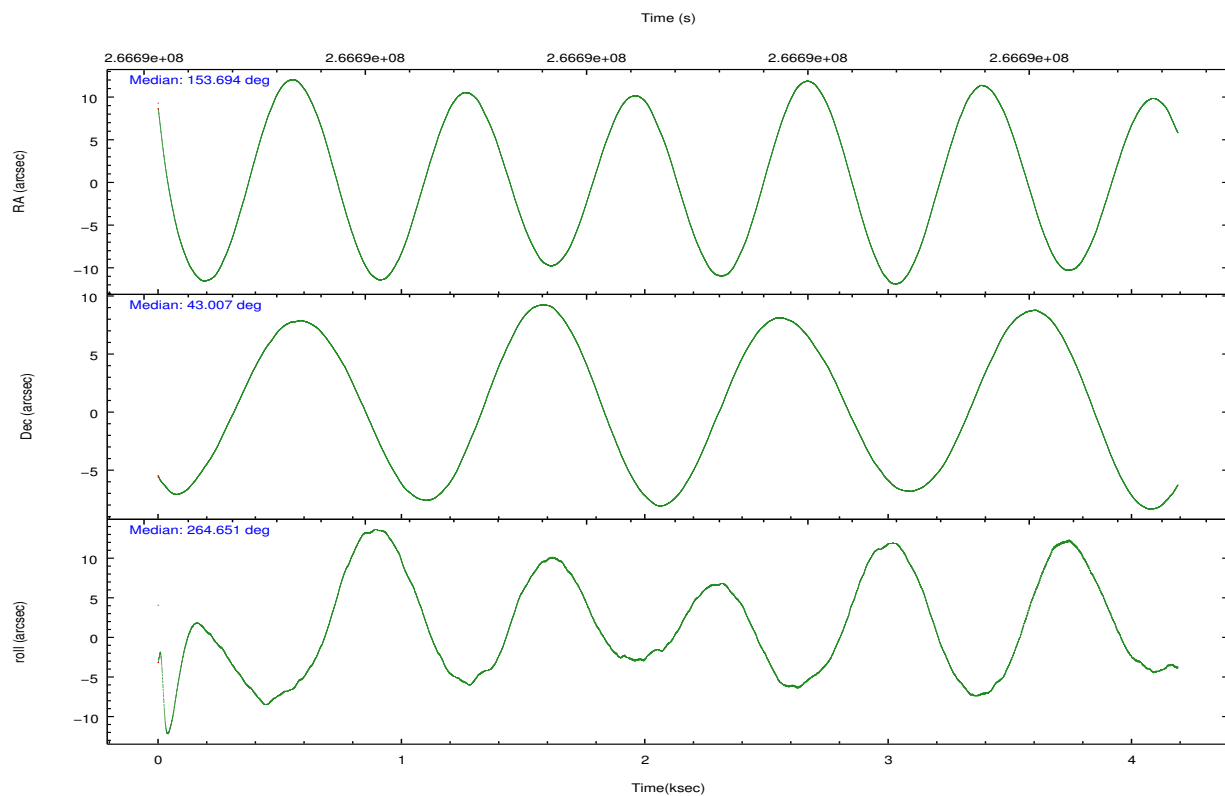


## 2.2 Compared Parameters

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	153.678243	153.6942288030355	Subarray requested	NONE	NONE
[deg] Pointing Dec	43.031872	43.00717824153075	Alternating exposures requested	N	N
[deg] Pointing Roll	264.508608	264.6543850316769	[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)	266690463.184000	266689370.17808			
Observation start date	2006-06-14T16:39:58	2006-06-14T16:22:50			
[s] Observation end time (MET)	266694463.184000	266695098.90335			
Observation end date	2006-06-14T17:46:38	2006-06-14T17:58:18			
Read mode	TIMED	TIMED			

2.3 Aspect



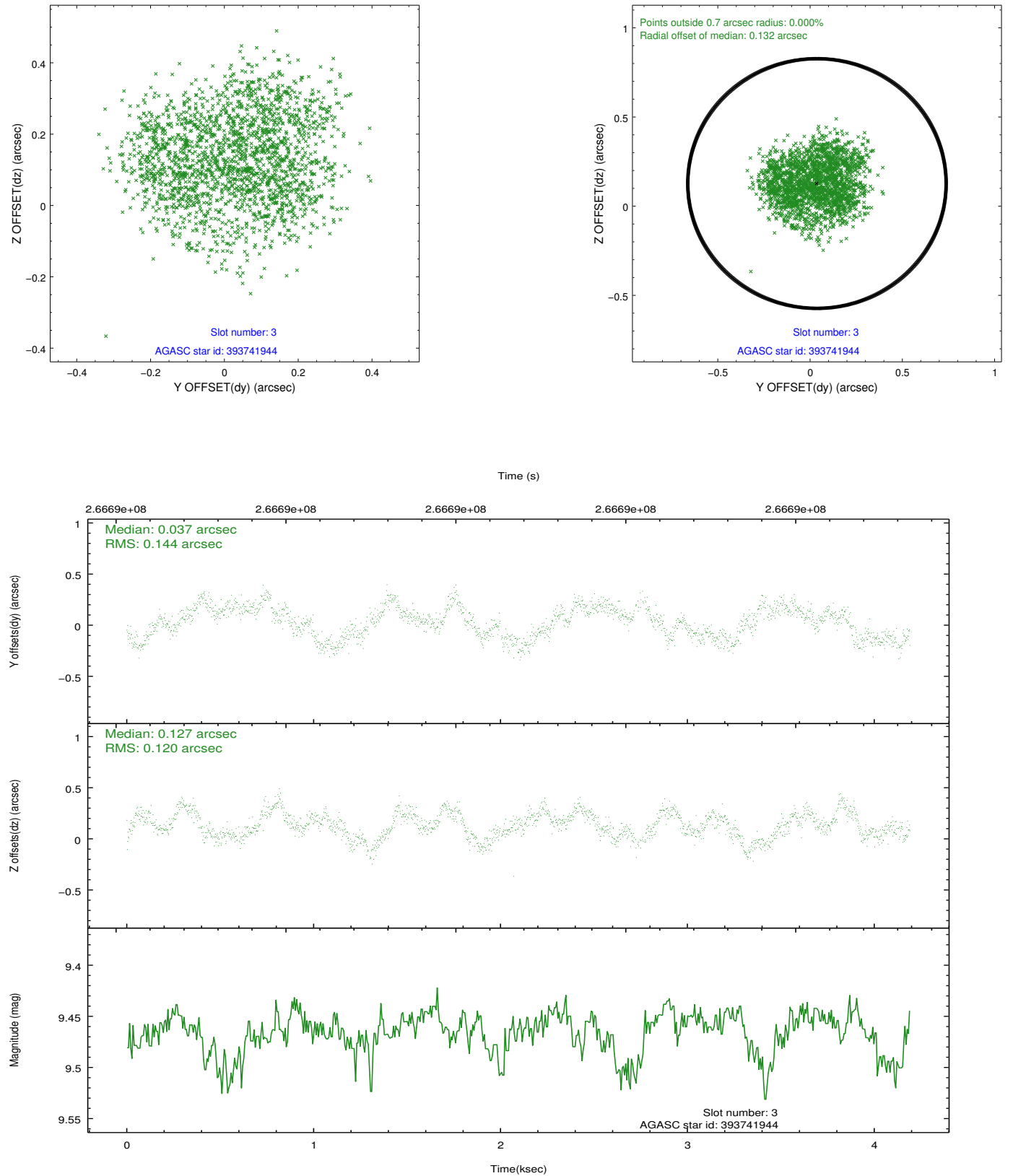


### Slot Statistics

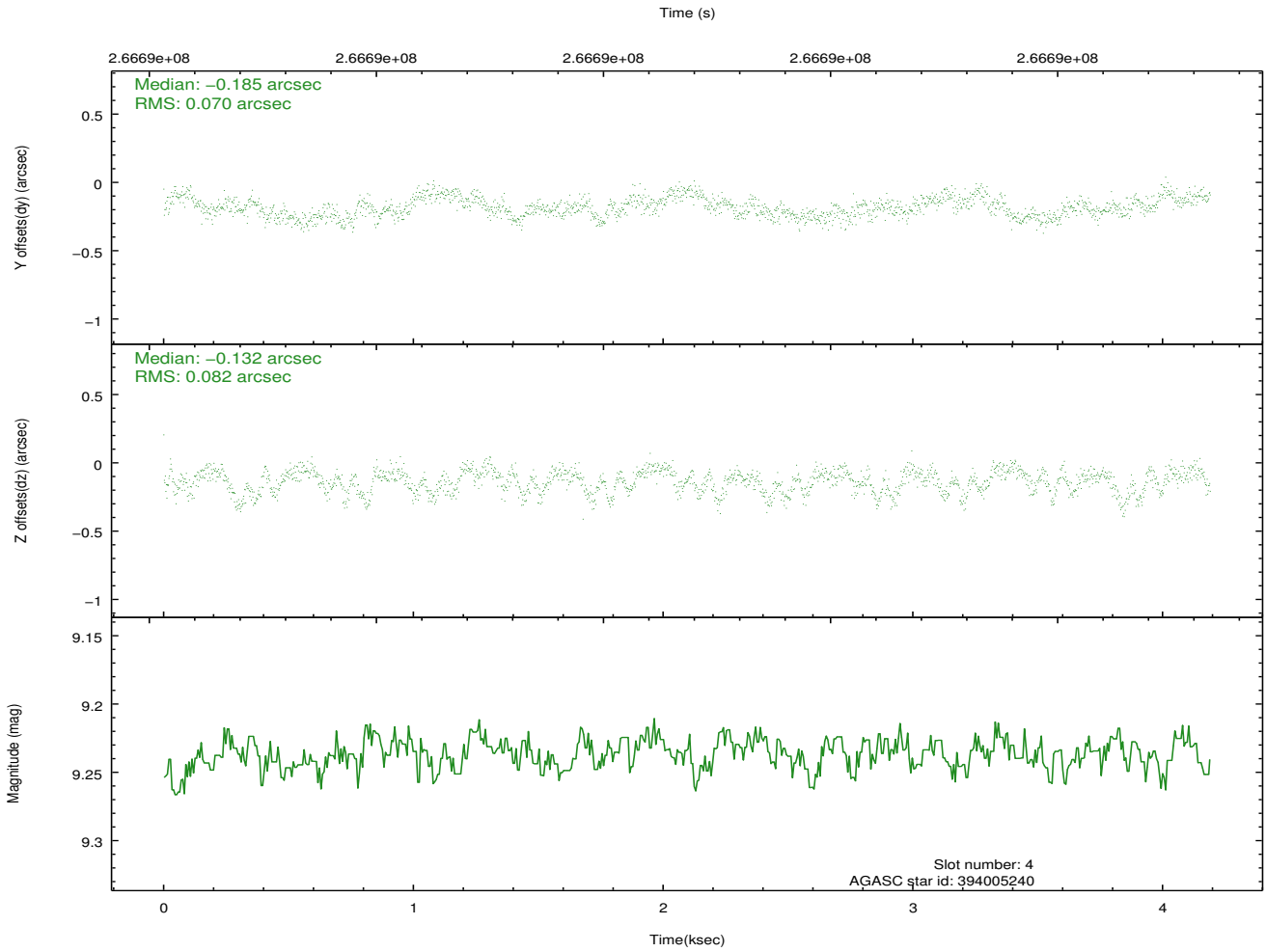
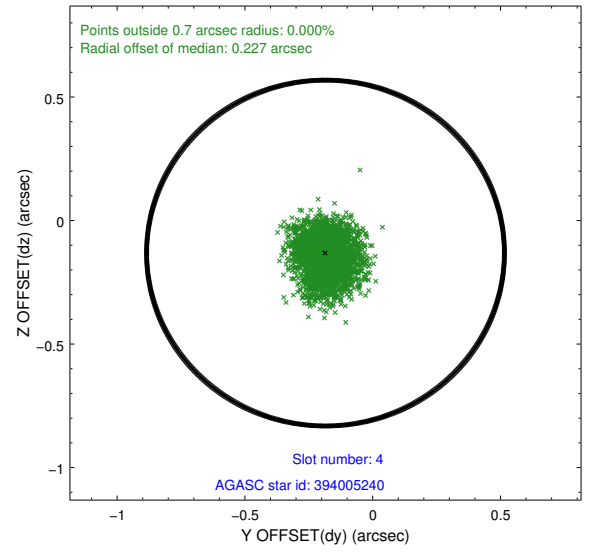
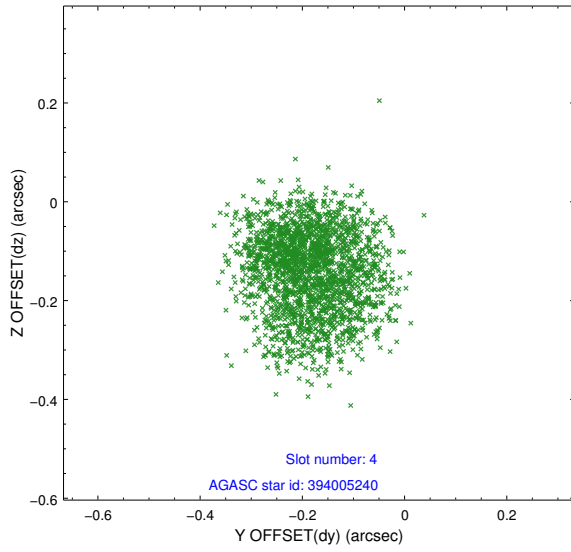
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1023	-0.050	-0.028	0.007	0.011	0.000000	0.000000	-760.68	-1732.06
1	FID	ACIS-S-4	7.21	1023	0.136	0.032	0.005	0.010	0.000000	0.000000	2152.06	175.02
2	FID	ACIS-S-5	7.24	1023	-0.118	0.005	0.007	0.011	0.000000	0.000000	-1811.73	170.26
3	GUIDE	393741944	9.46	2013	0.037	0.127	0.210	0.295	154.094548	42.372956	2252.56	1329.49
4	GUIDE	394005240	9.24	2045	-0.185	-0.132	0.117	0.181	153.009098	43.538316	-1653.61	-1912.80
5	GUIDE	394136688	9.03	2042	-0.149	-0.086	0.084	0.131	153.495432	43.570844	-1887.15	-661.29
6	GUIDE	394138336	8.49	2045	0.331	0.052	0.066	0.106	154.059498	42.796560	744.01	1083.33
7	GUIDE	394138704	8.99	2042	-0.027	0.046	0.086	0.138	154.310870	42.636074	1252.44	1804.41

## 2.4 Star Slots

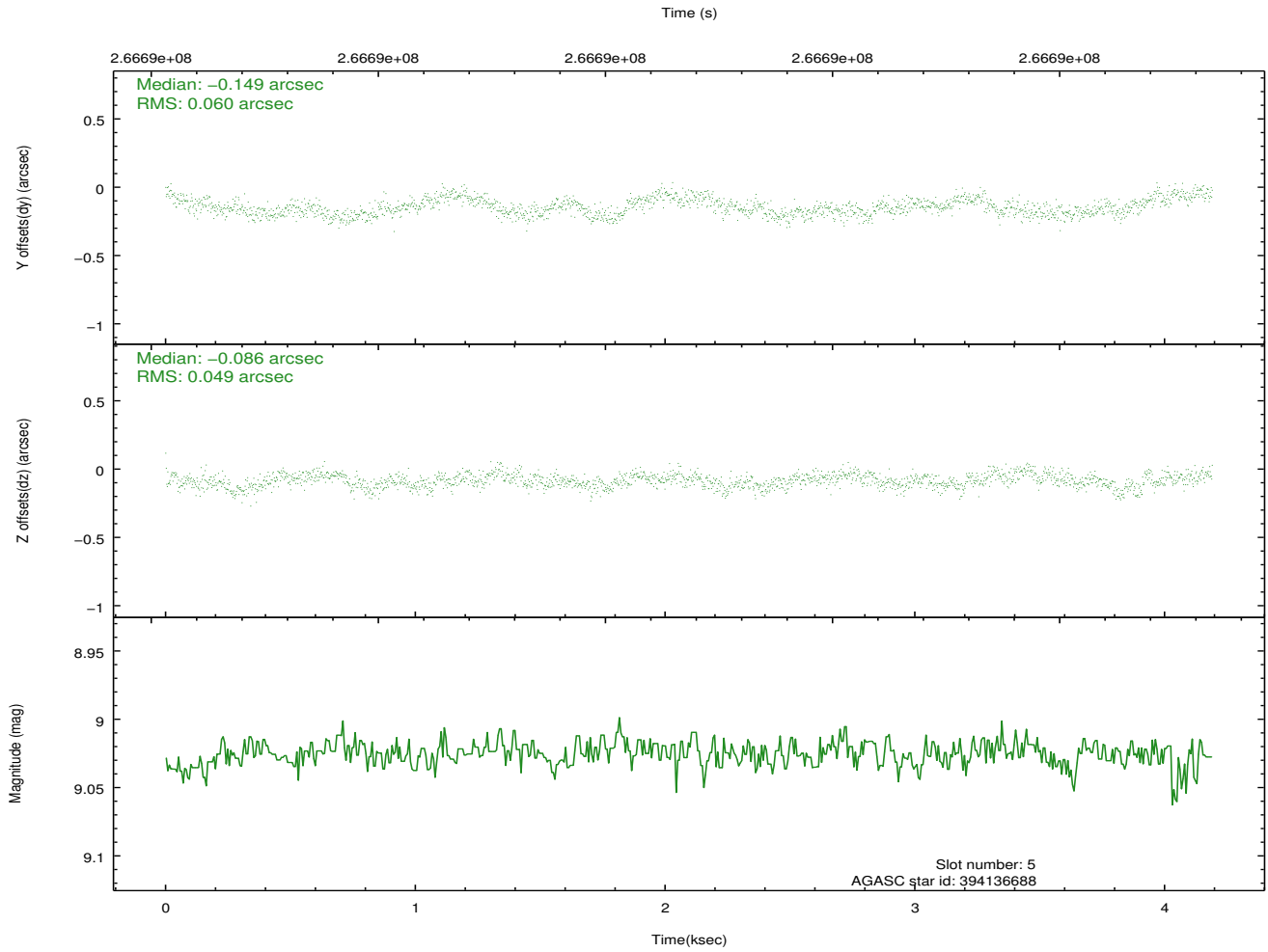
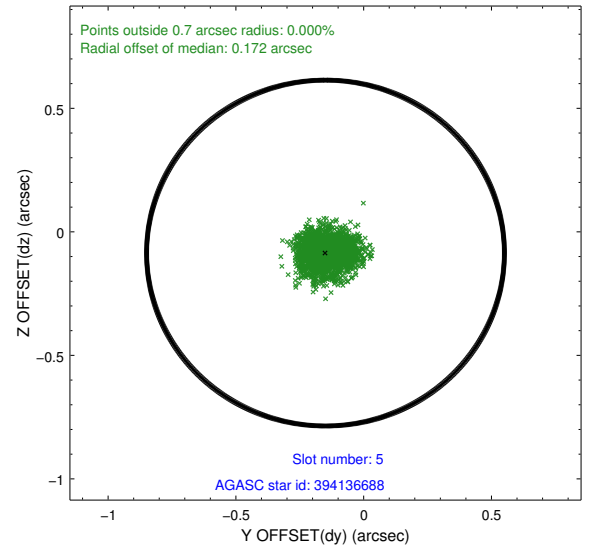
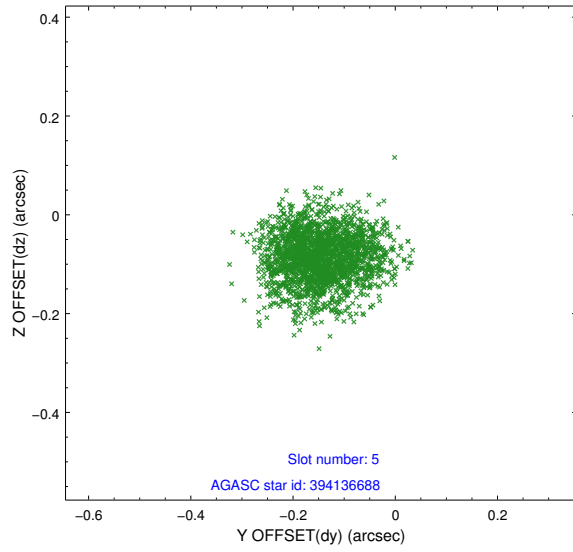
### 2.4.1 Slot 3



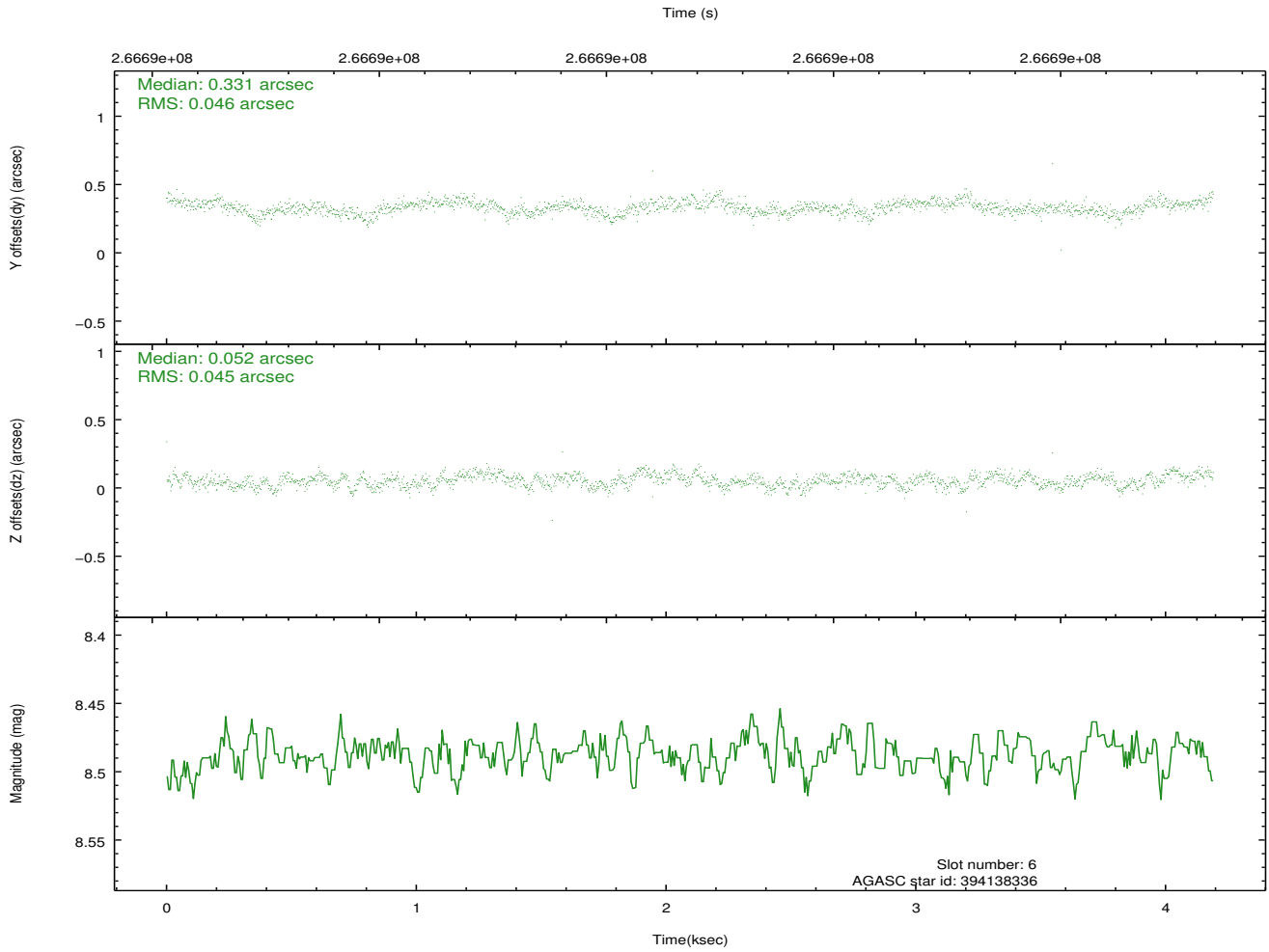
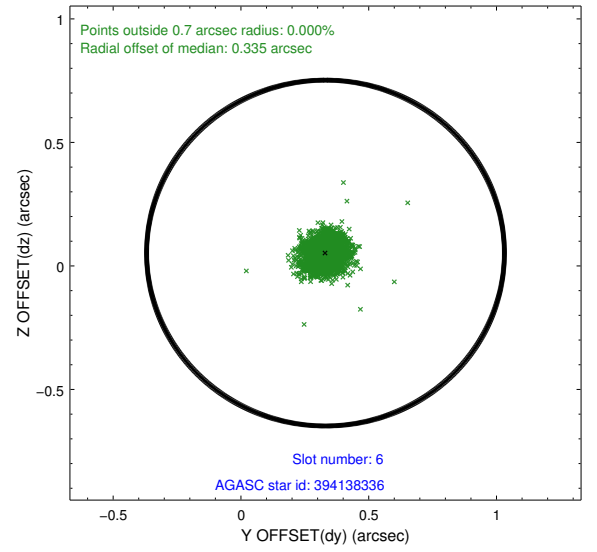
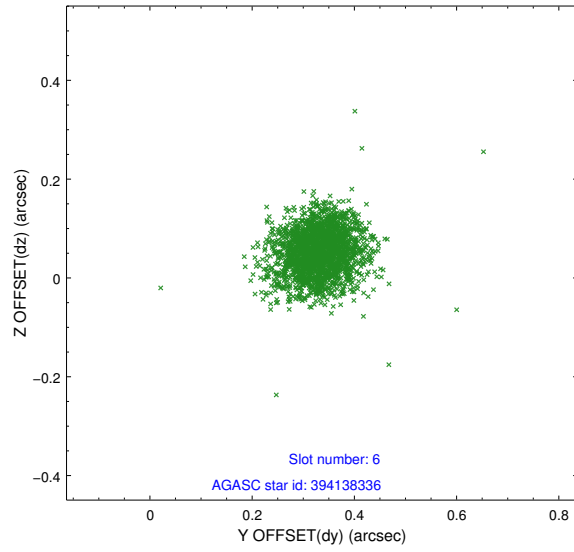
## 2.4.2 Slot 4



### 2.4.3 Slot 5

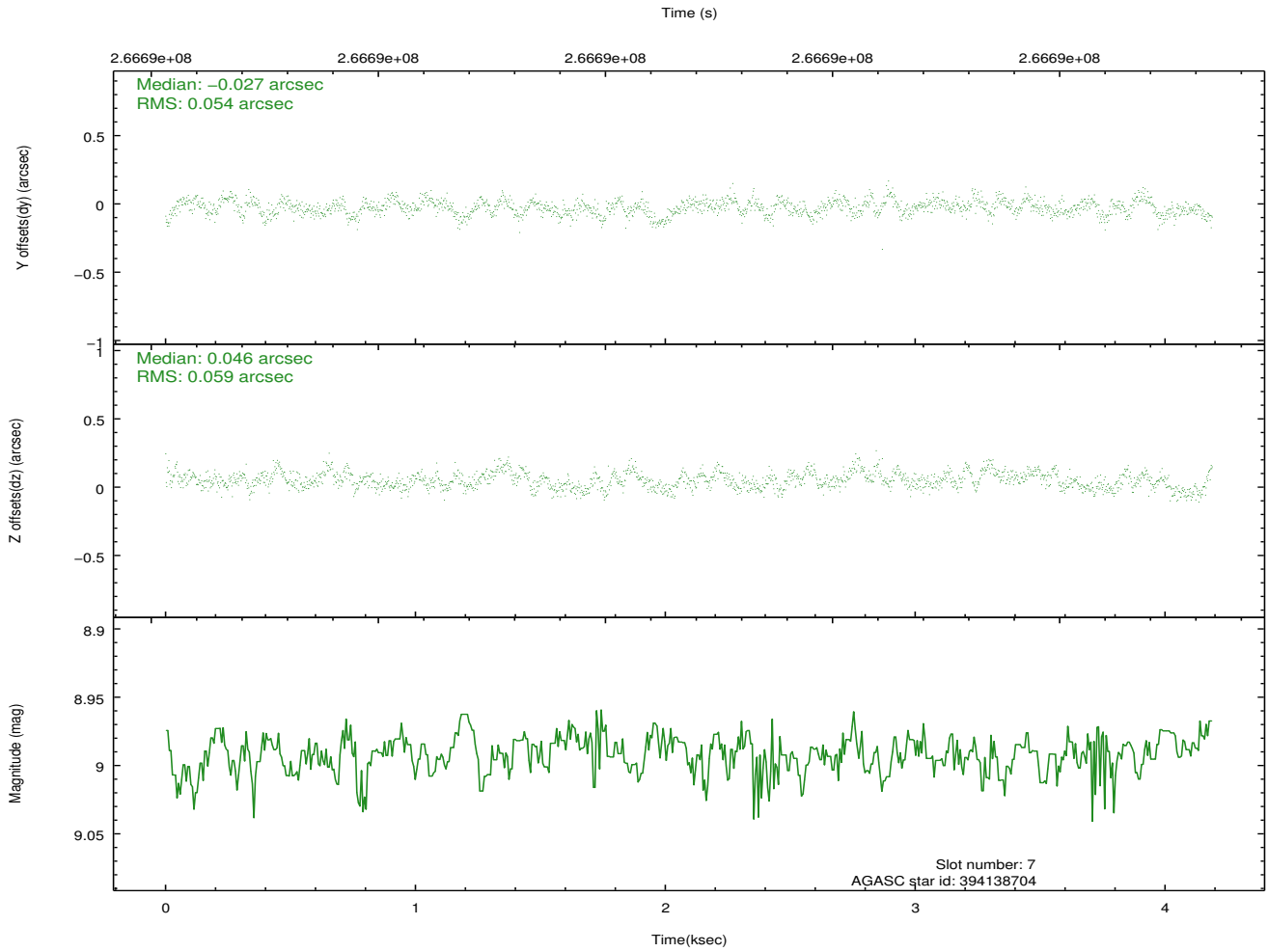
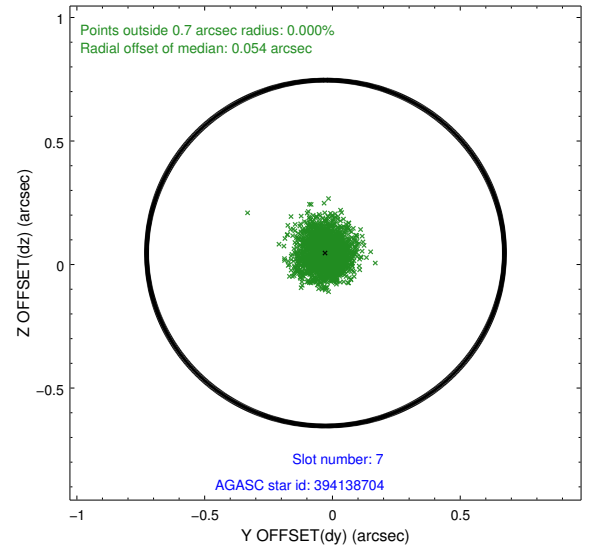
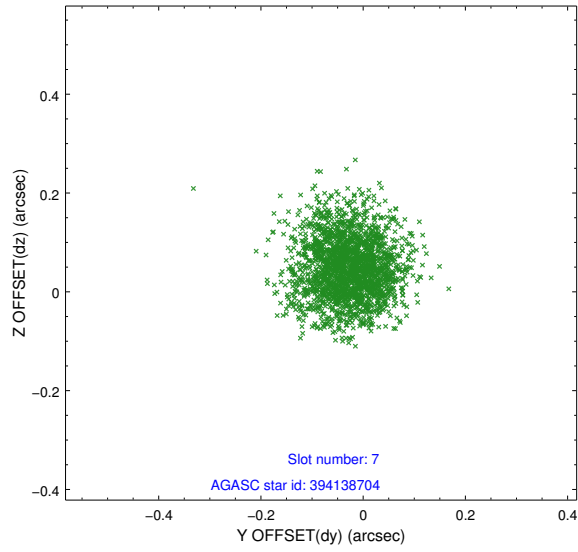


## 2.4.4 Slot 6



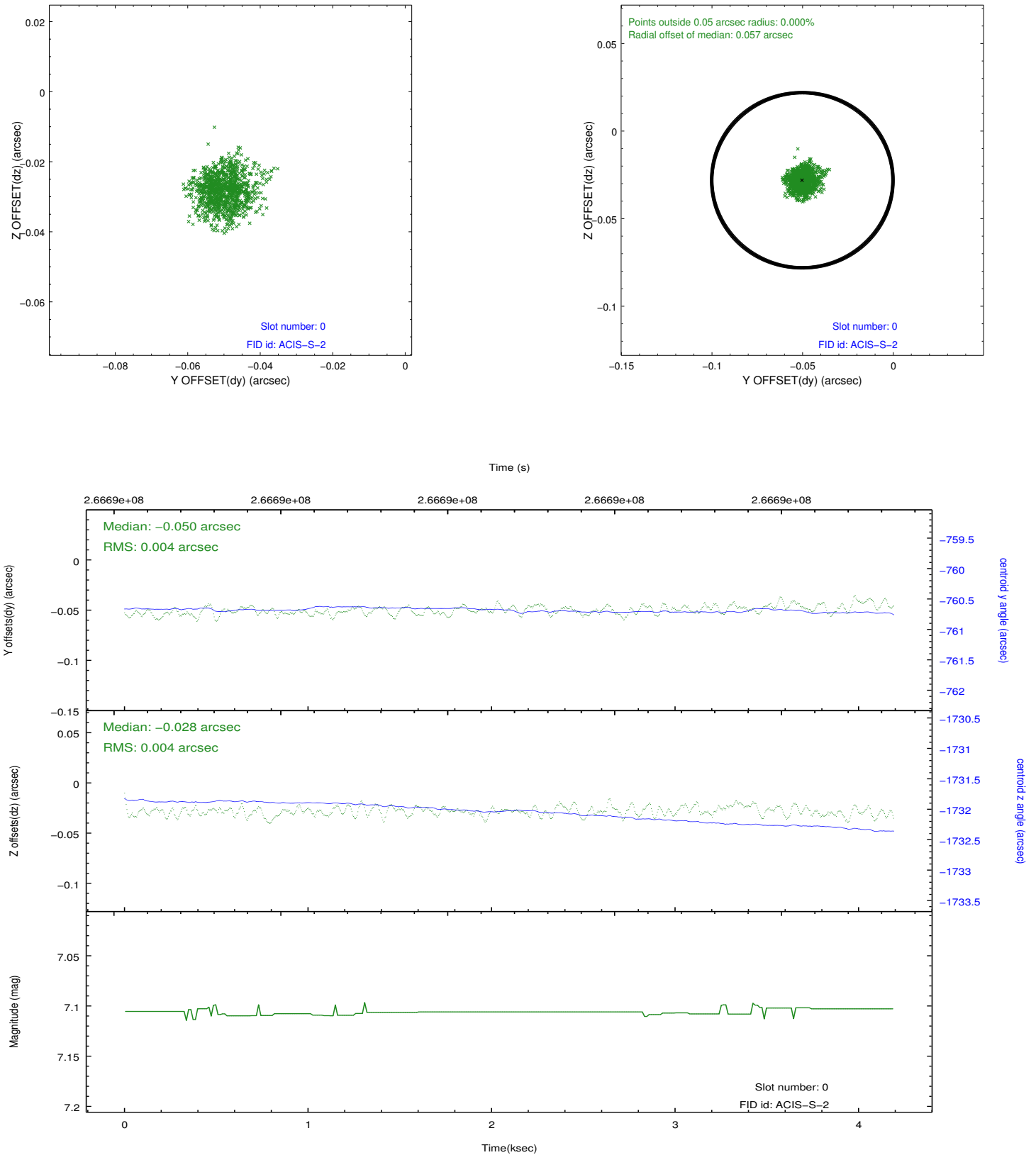


### 2.4.5 Slot 7

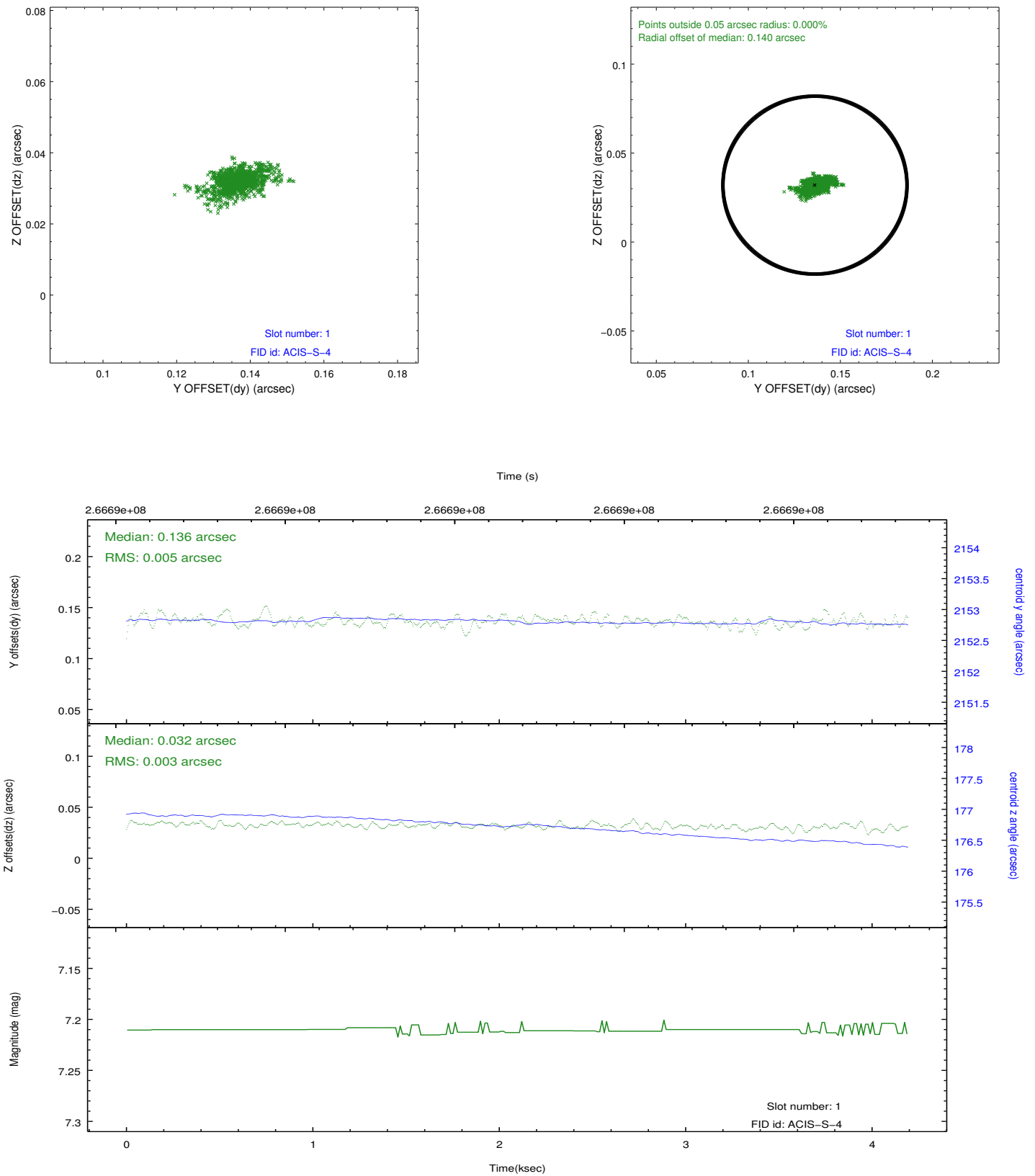


## 2.5 FID Slots

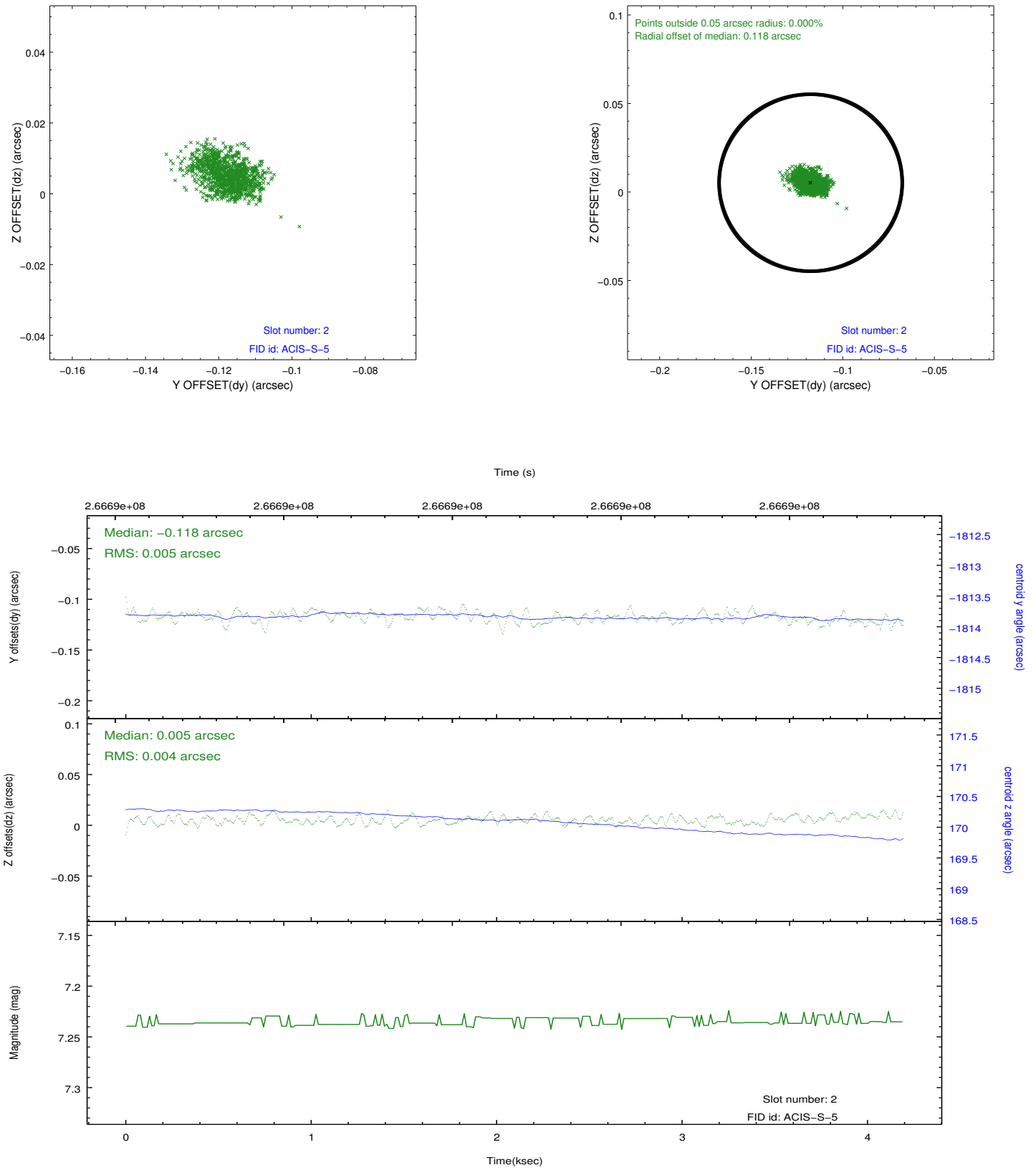
### 2.5.1 Slot 0



## 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)	2012.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.18239998

### A.2 Comments