

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 5895 - L2 Version 3  
Chandra X-Ray Center

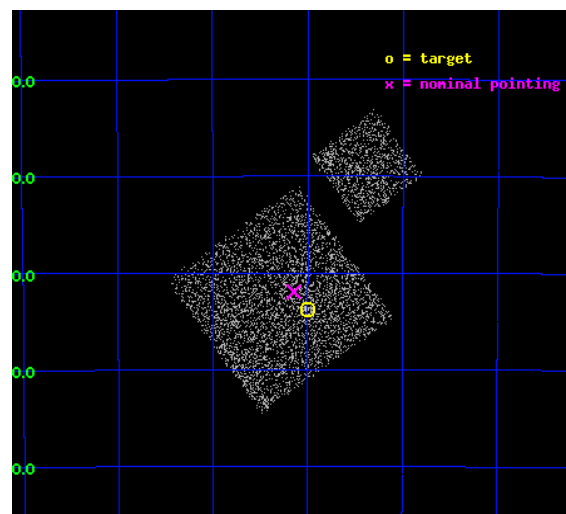
L2 Processing Date : Dec 25 2012

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# 1 Front

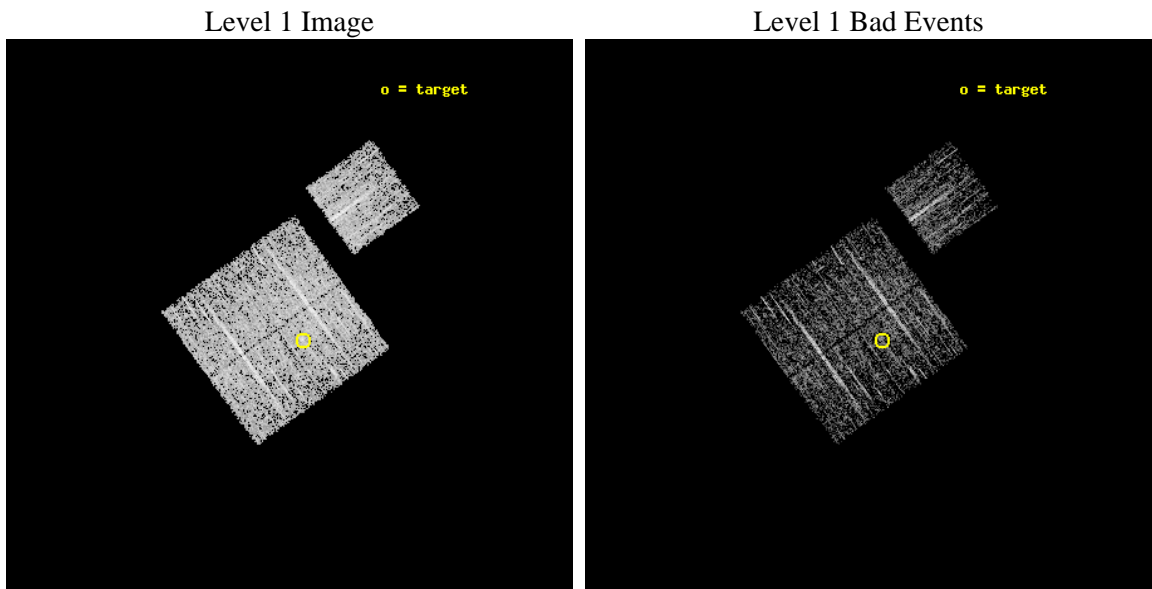
seq_num	600414	Sequence number
obs_id	5895	Observation id
title	Testing Formation Models and Heating and Feedback Mechanisms In Galaxy Groups	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	NGC7049	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	319.750833	Observer's specified target RA [deg]
dec_targ	-48.561944	Observer's specified target Dec [deg]
ra_nom	319.78645619253	Nominal RA [deg]
dec_nom	-48.532582007629	Nominal Dec [deg]
roll_nom	54.160715892016	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2176.199995786	Sum of GTIs [s]
livetime	2147.7663407459	Livetime [s]
ontime0	2176.199995786	Sum of GTIs [s]
ontime1	2176.199995786	Sum of GTIs [s]
ontime2	2176.199995786	Sum of GTIs [s]
ontime3	2176.199995786	Sum of GTIs [s]
ontime6	2176.199995786	Sum of GTIs [s]
l2events	6203	Number of level 2 events



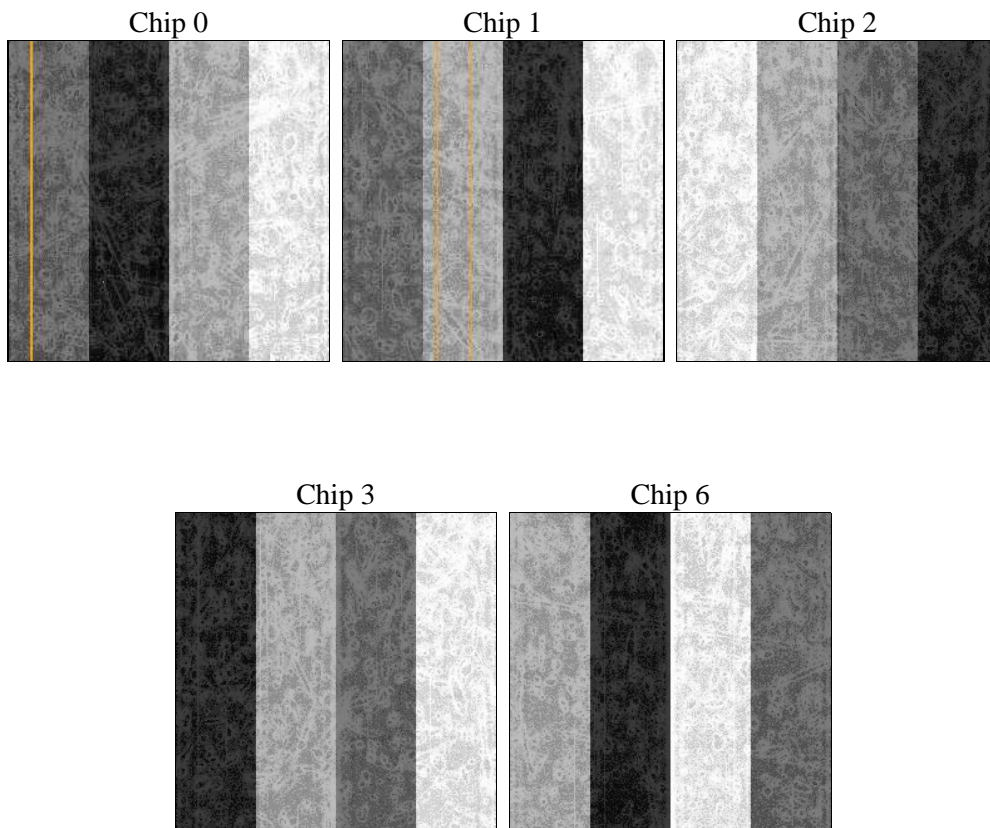
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	2176.199995786	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime0	2176.199995786	Sum of GTIs [s]
date	2012-12-25T23:52:41	Date and time of file creation	ontime1	2176.199995786	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	2176.199995786	Sum of GTIs [s]
			ontime3	2176.199995786	Sum of GTIs [s]
			ontime6	2176.199995786	Sum of GTIs [s]
			l1events	81360	Number of level 1 events

### 2.1.4 Events

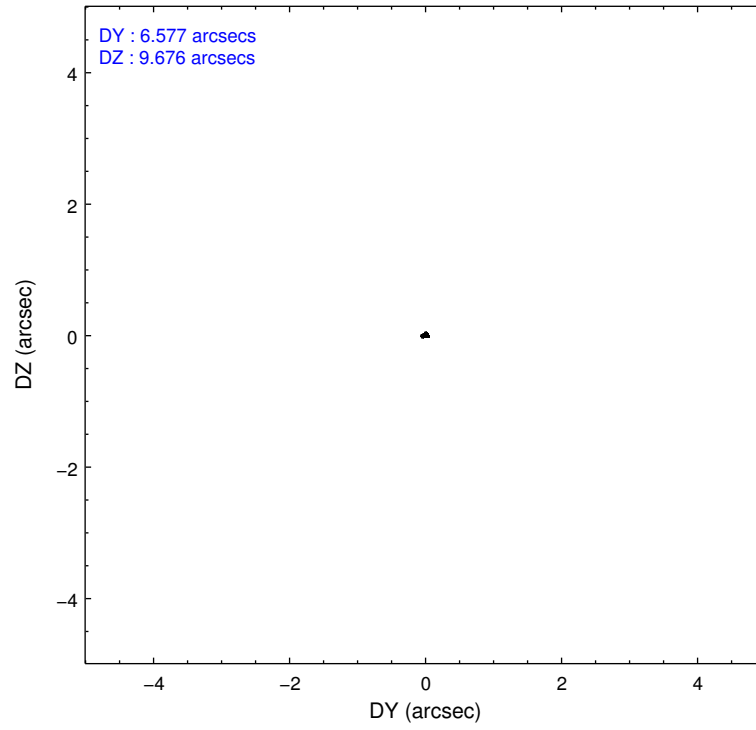
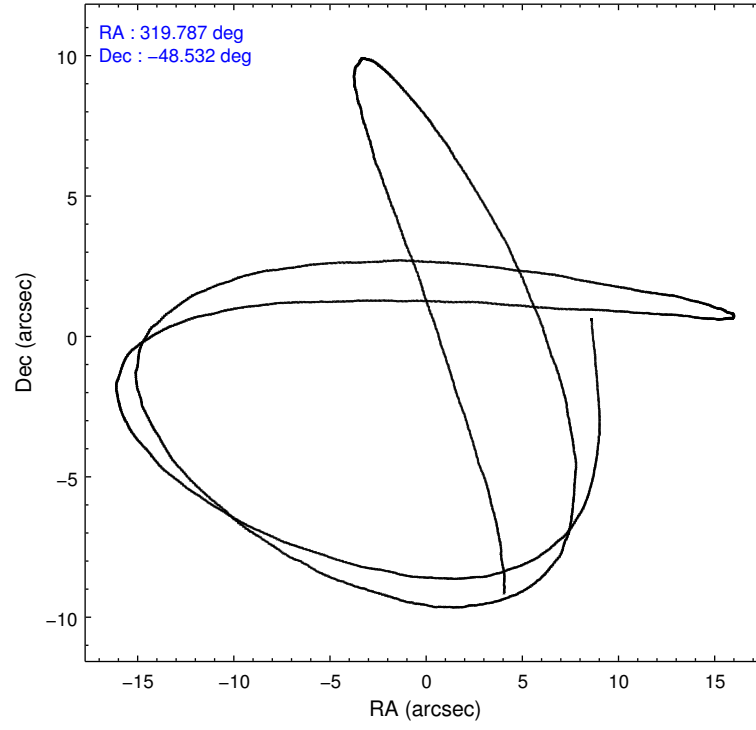
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	15862	15698	16870	16740	16190
rejected events	14444	14036	15491	15198	14779
rejected %	91%	89%	91%	90%	91%

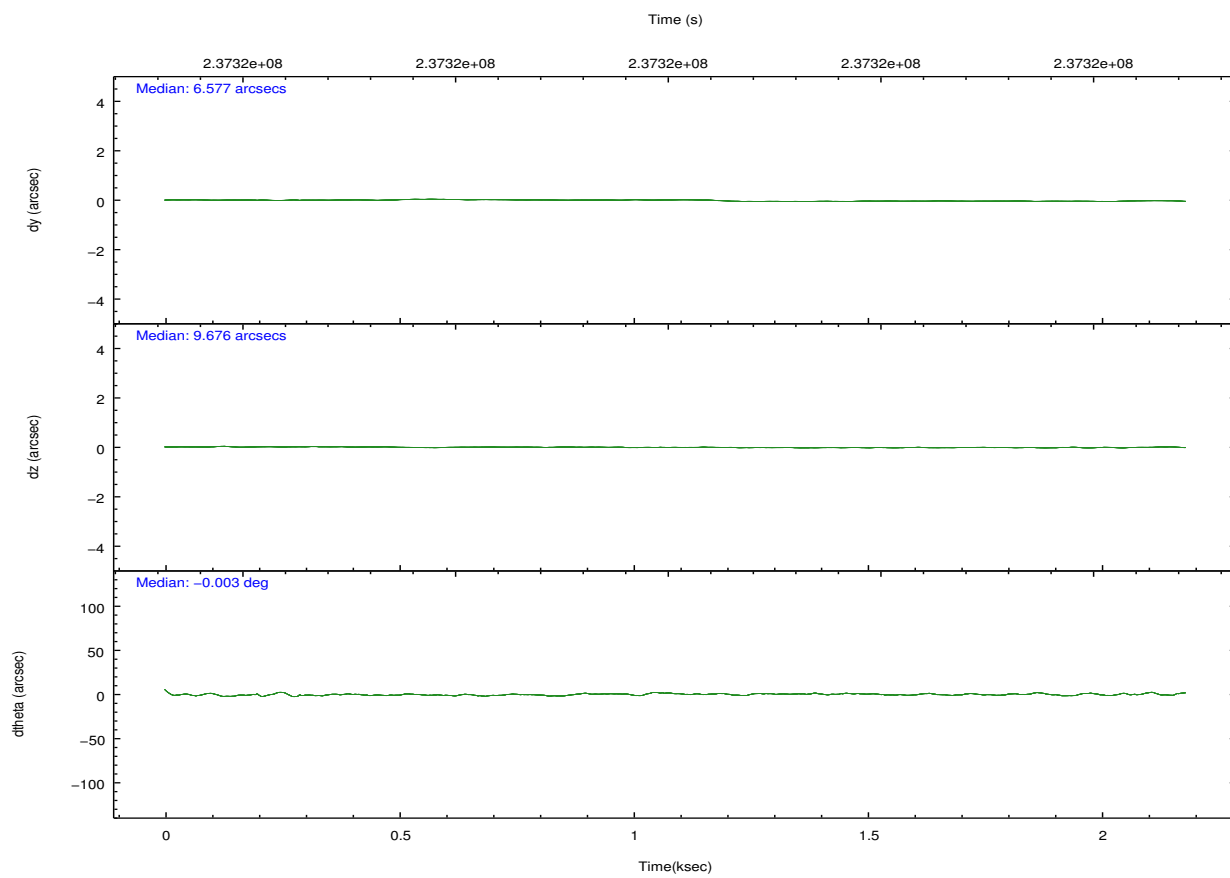
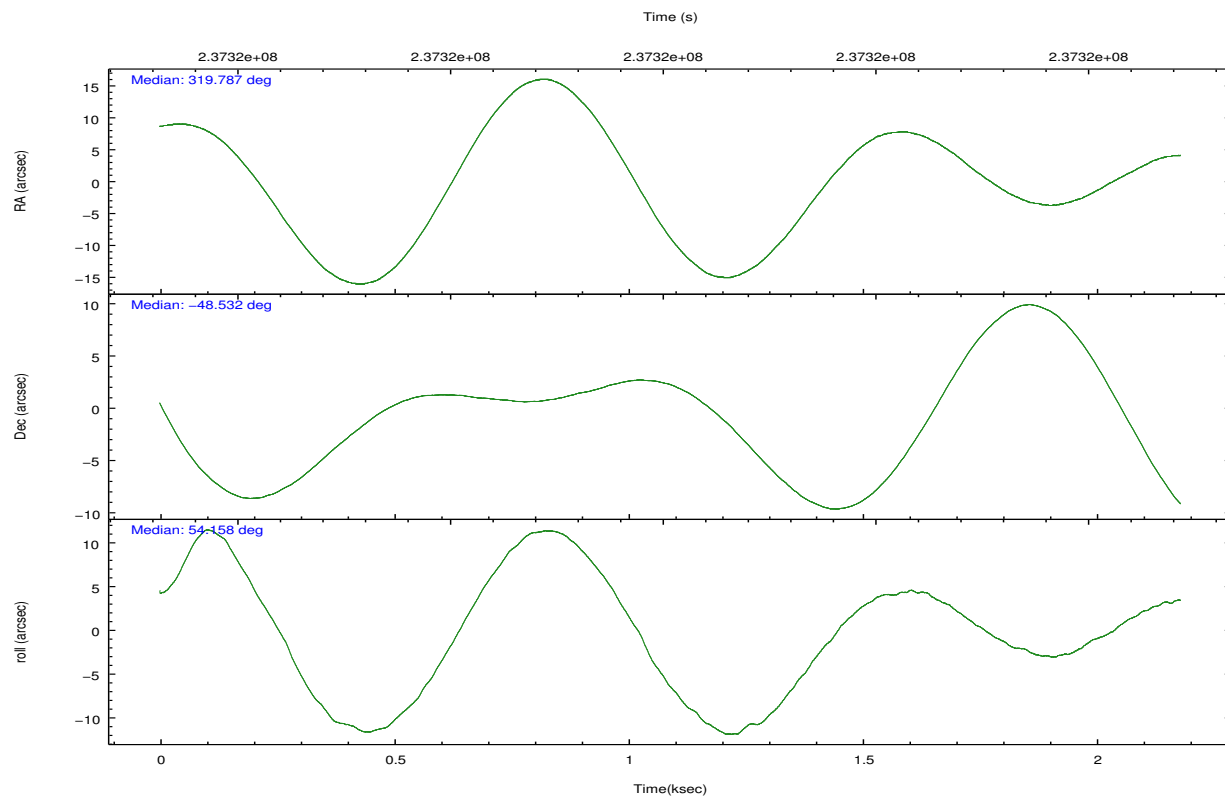
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	584	704	640	678	575
	3%	4%	3%	4%	3%
grade 1 events	11	10	8	10	6
	0%	0%	0%	0%	0%
grade 2 events	390	409	362	368	342
	2%	2%	2%	2%	2%
grade 3 events	190	201	170	199	183
	1%	1%	1%	1%	1%
grade 4 events	181	230	161	216	155
	1%	1%	0%	1%	0%
grade 5 events	668	662	558	663	645
	4%	4%	3%	3%	3%
grade 6 events	320	366	268	296	351
	2%	2%	1%	1%	2%
grade 7 events	13518	13116	14703	14310	13933
	85%	83%	87%	85%	86%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	319.782427	319.7864561925264	Subarray requested	NONE	NONE
[deg] Pointing Dec	-48.559856	-48.53258200762944	Alternating exposures requested	N	N
[deg] Pointing Roll	53.949001	54.16071589201593	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-230.592463	-230.5928849366707			
[mm] SIM translation stage offset	-3	-2.999568066258945			
[s] Observation start time (MET)	237319105.184000	237317955.38148			
Observation start date	2005-07-09T17:57:21	2005-07-09T17:39:15			
[s] Observation end time (MET)	237321105.184000	237322011.81917			
Observation end date	2005-07-09T18:30:41	2005-07-09T18:46:51			
Read mode	TIMED	TIMED			

## 2.3 Aspect





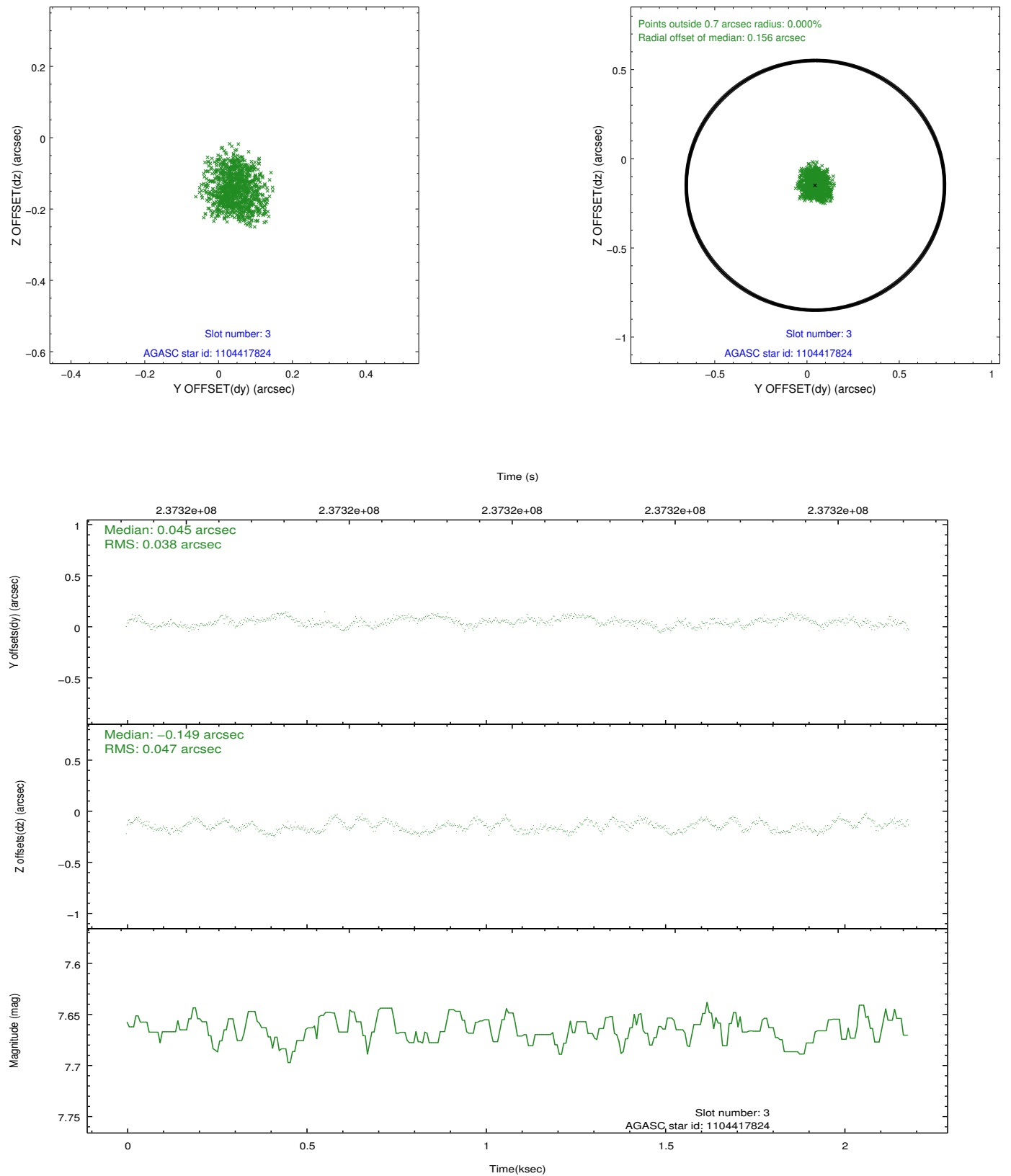
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	532	0.004	-0.048	0.010	0.016	0.000000	0.000000	933.09	-894.69
1	FID	ACIS-I-2	7.17	532	-0.185	-0.026	0.008	0.013	0.000000	0.000000	-759.68	-902.34
2	FID	ACIS-I-4	7.16	531	0.083	0.142	0.008	0.013	0.000000	0.000000	2151.50	1004.08
3	GUIDE	1104417824	7.67	1065	0.045	-0.149	0.068	0.098	319.323736	-48.707381	-1073.23	566.39
4	GUIDE	1104419120	8.61	1065	0.015	0.082	0.082	0.125	319.338612	-48.069057	796.76	1901.91
5	GUIDE	1104550048	6.75	1065	-0.562	-0.172	0.062	0.095	320.688690	-48.457406	1561.48	-1538.01
6	GUIDE	1104939328	8.50	1065	0.274	0.230	0.107	0.168	320.456426	-48.796613	247.51	-1799.51
7	GUIDE	1104941136	7.68	1064	0.242	0.004	0.060	0.098	319.851095	-49.398480	-2345.68	-1908.81

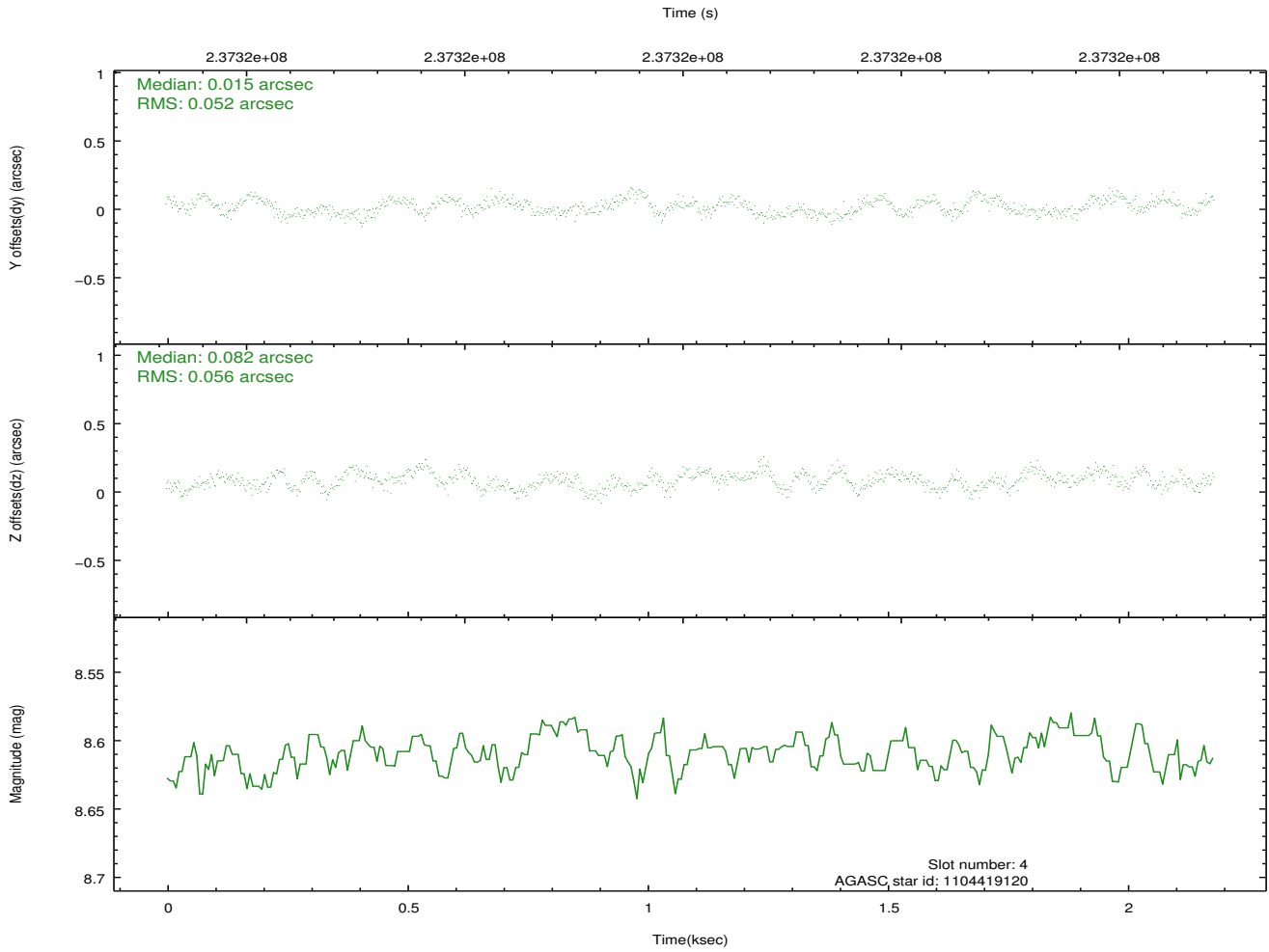
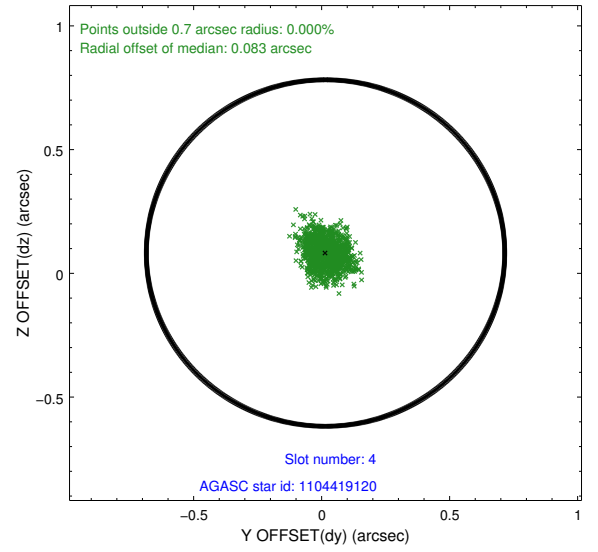
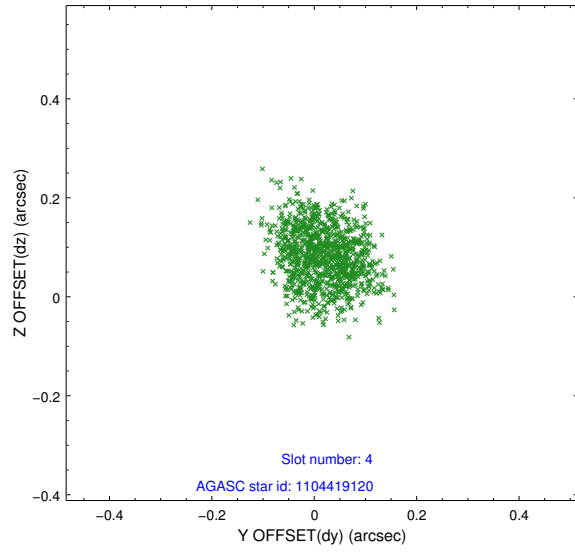


## 2.4 Star Slots

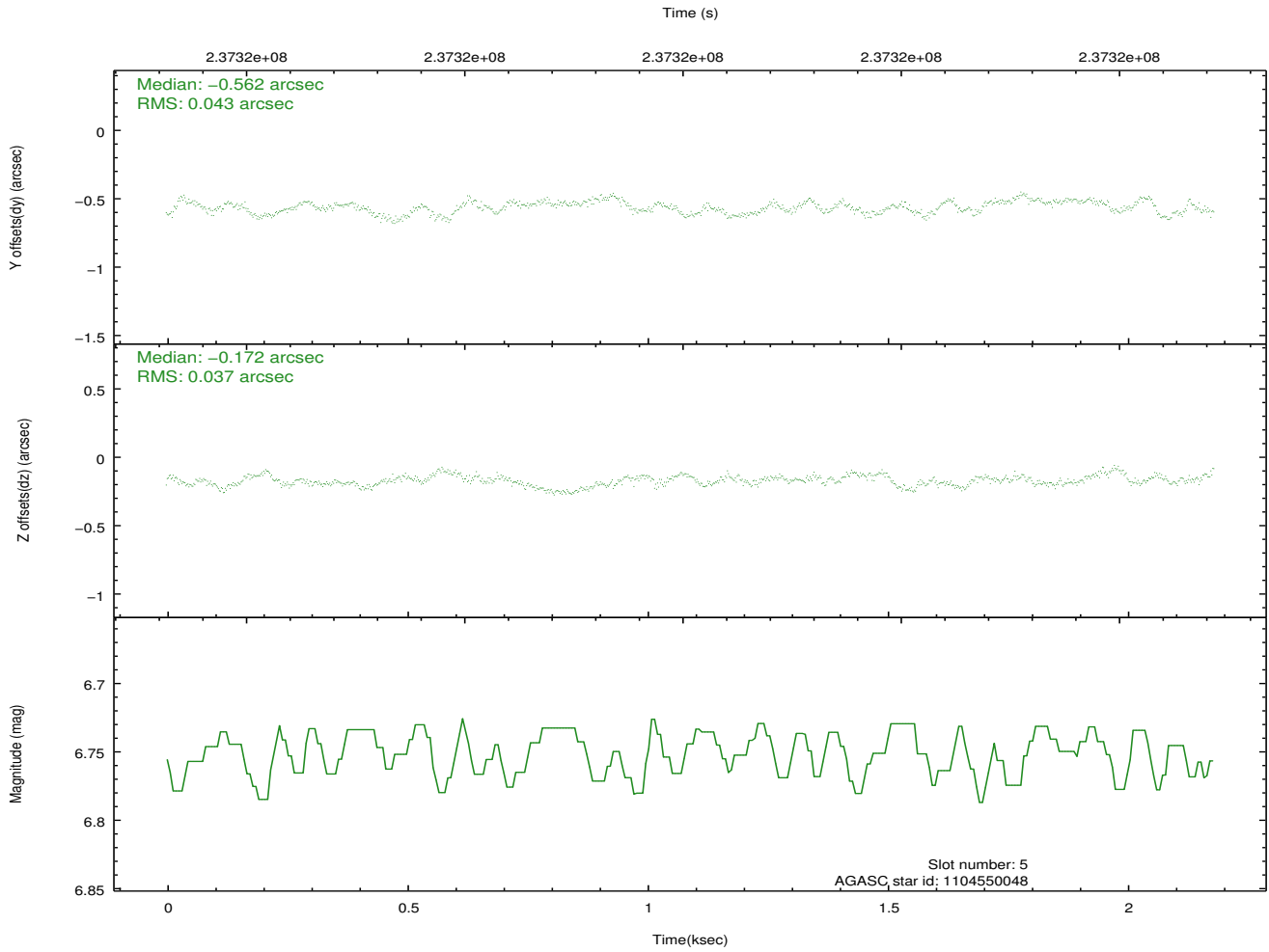
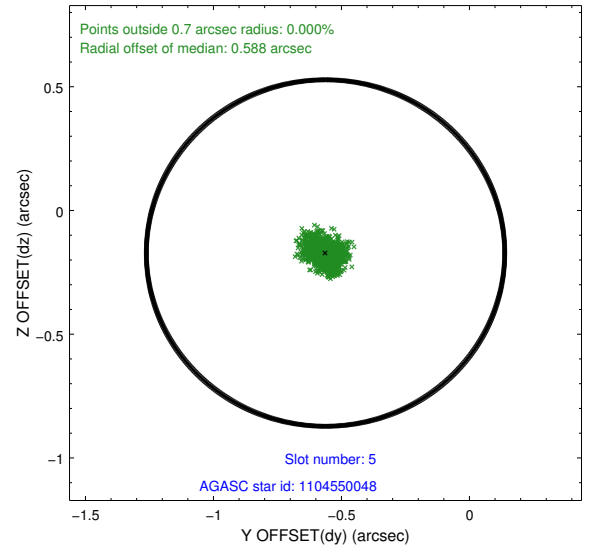
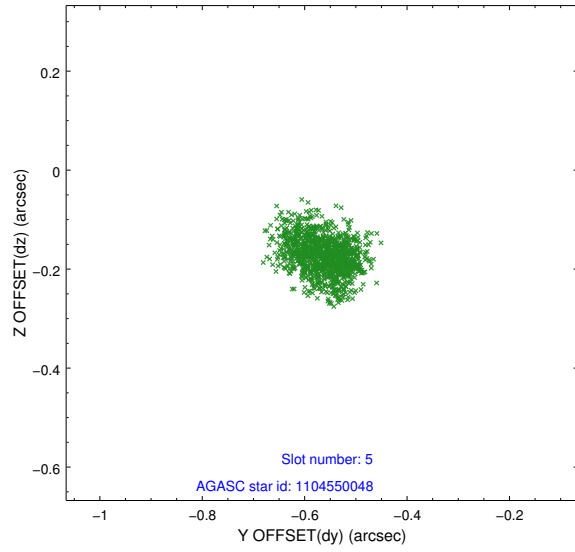
### 2.4.1 Slot 3



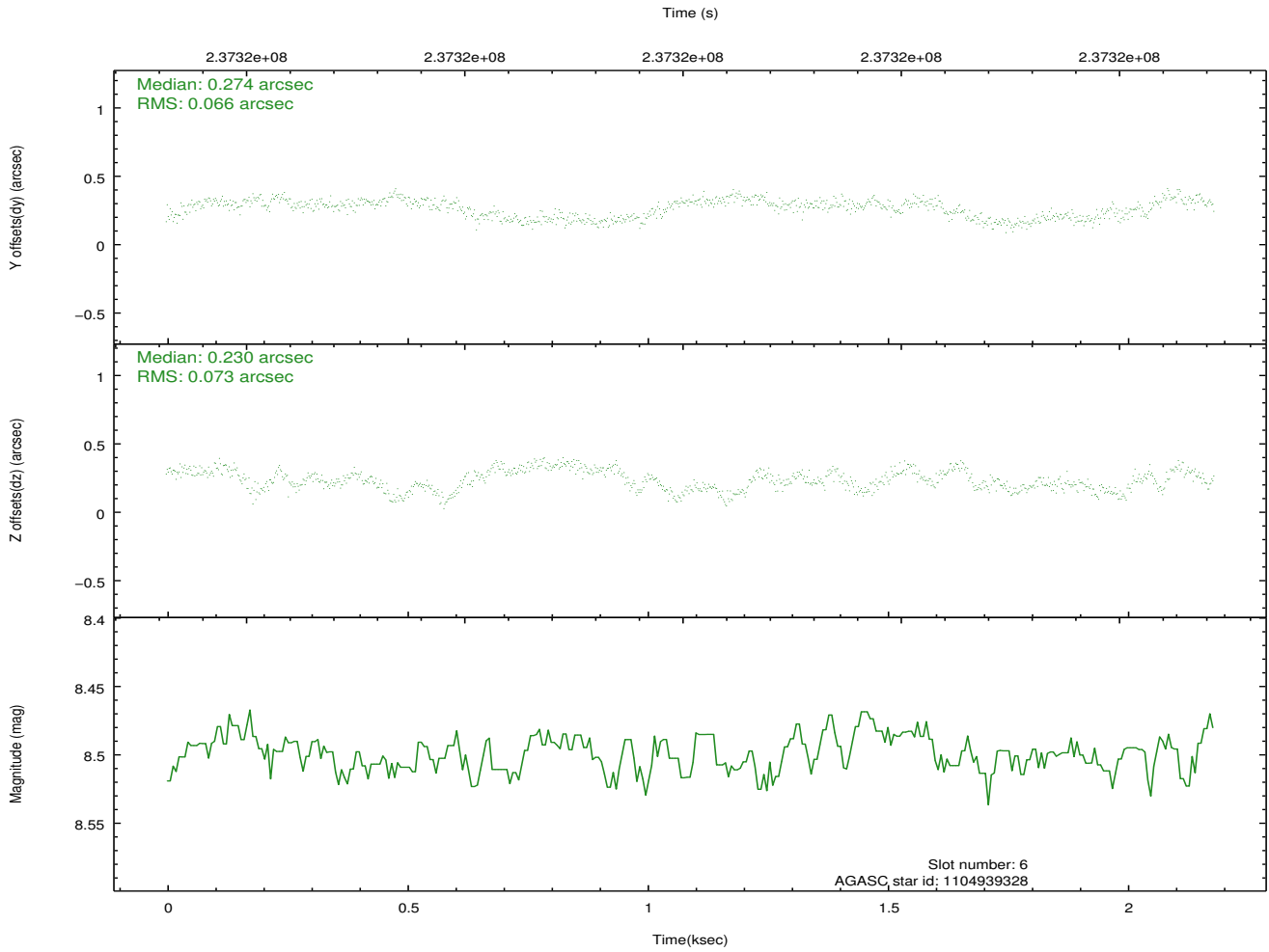
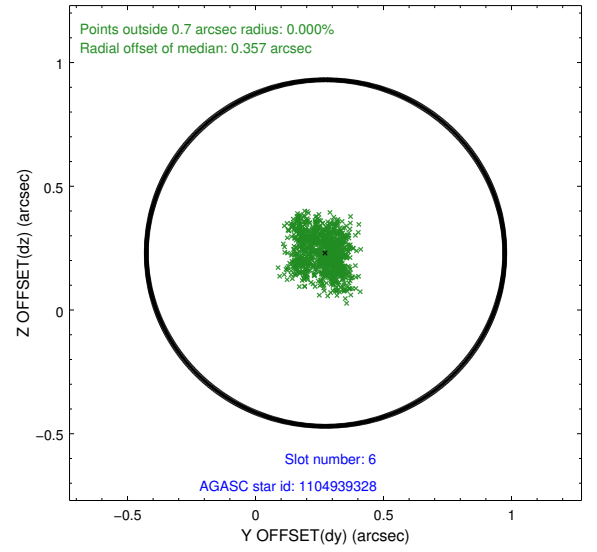
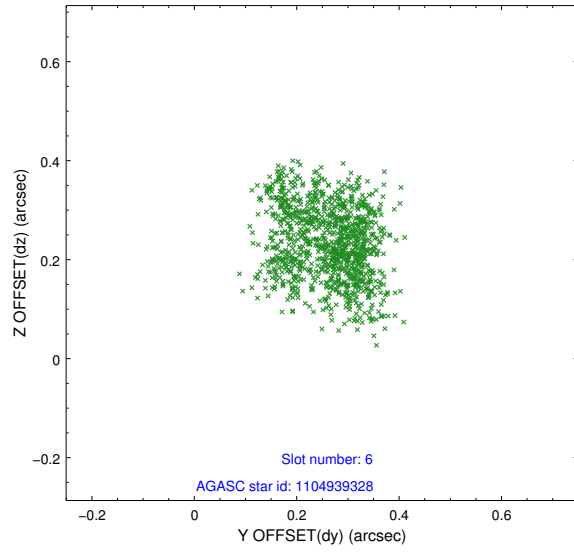
## 2.4.2 Slot 4



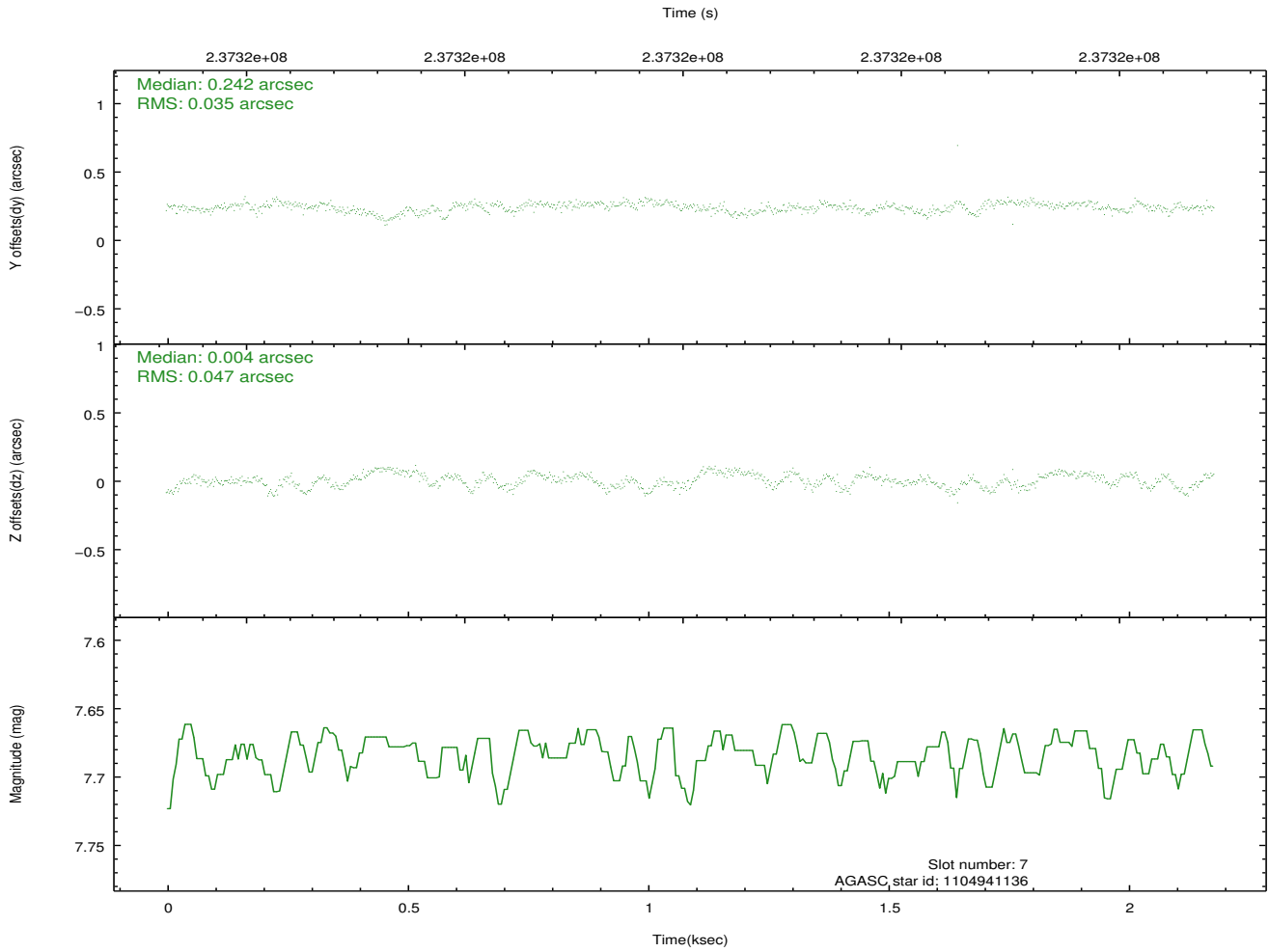
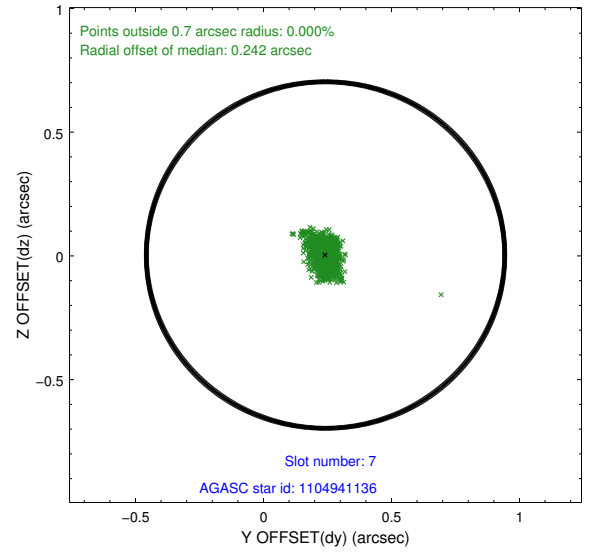
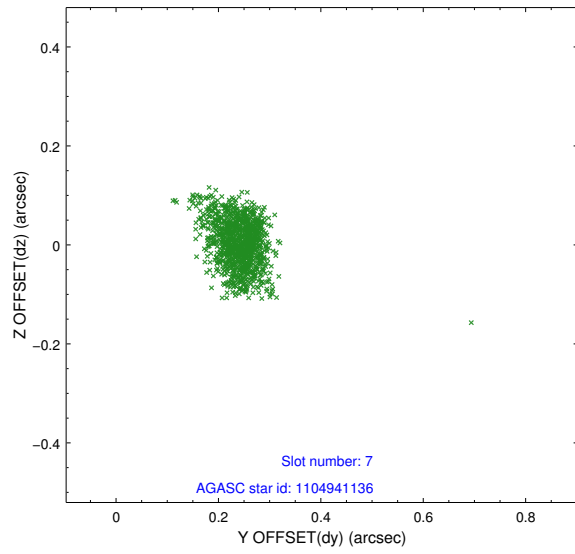
### 2.4.3 Slot 5



## 2.4.4 Slot 6

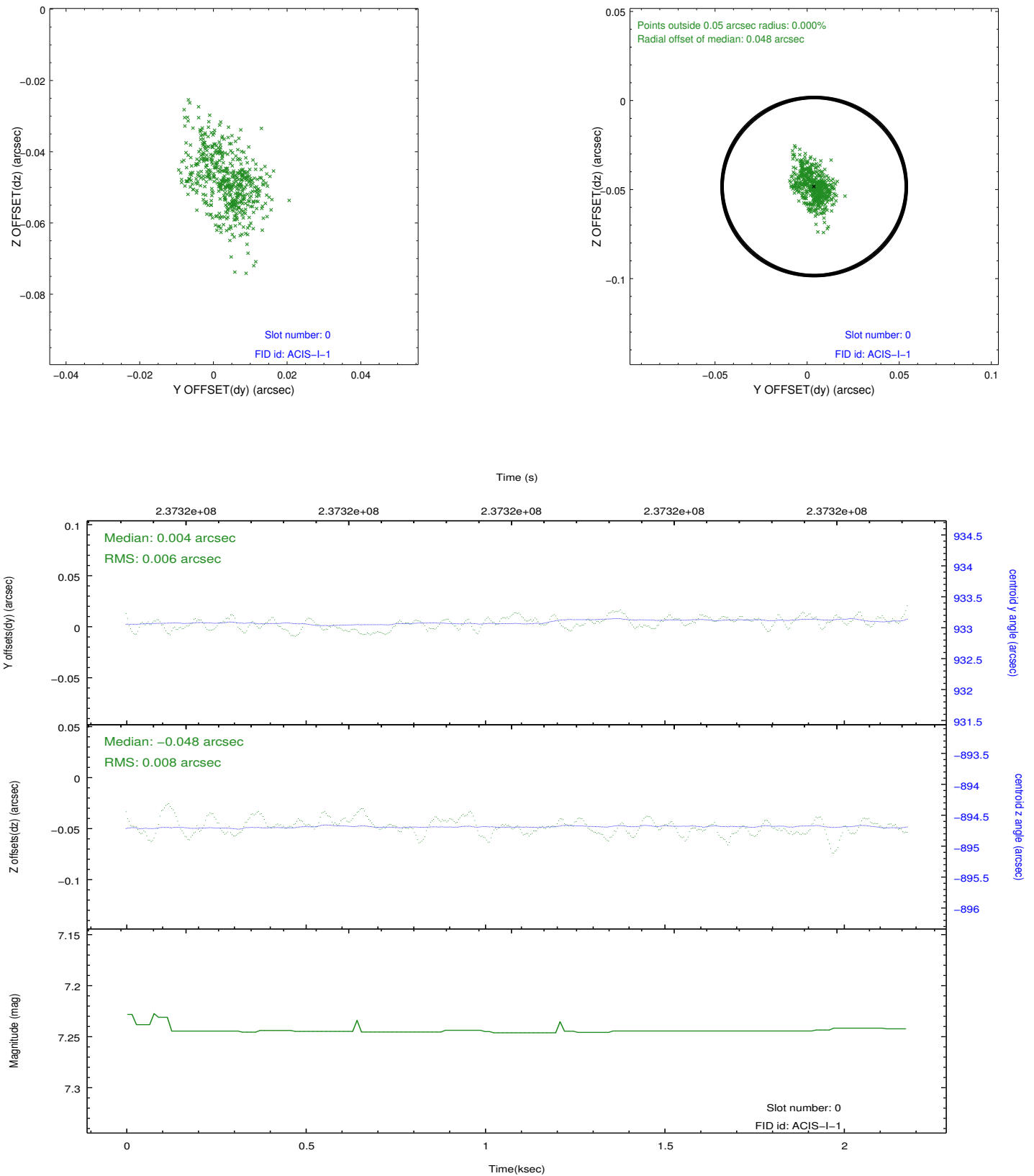


## 2.4.5 Slot 7

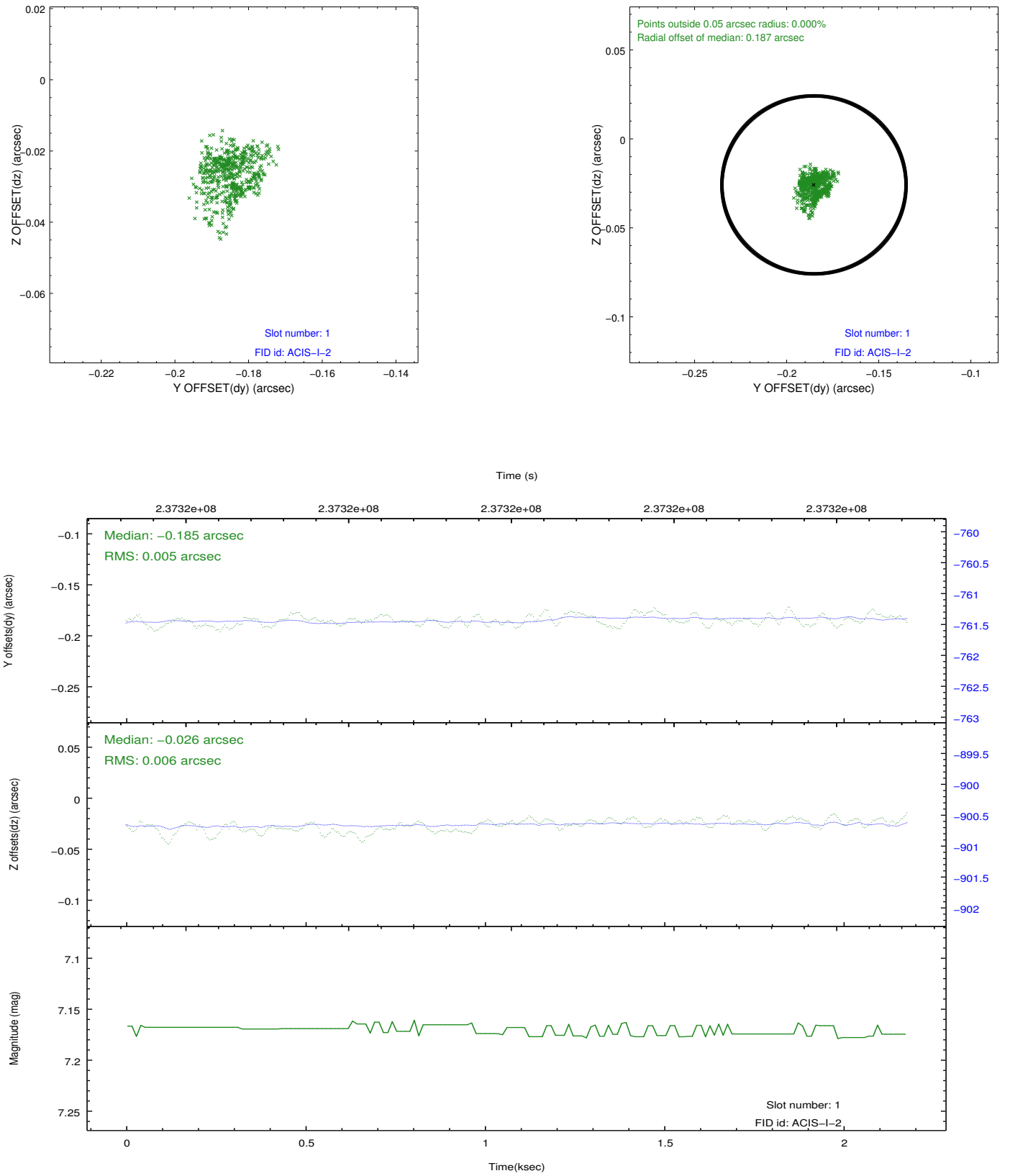


## 2.5 FID Slots

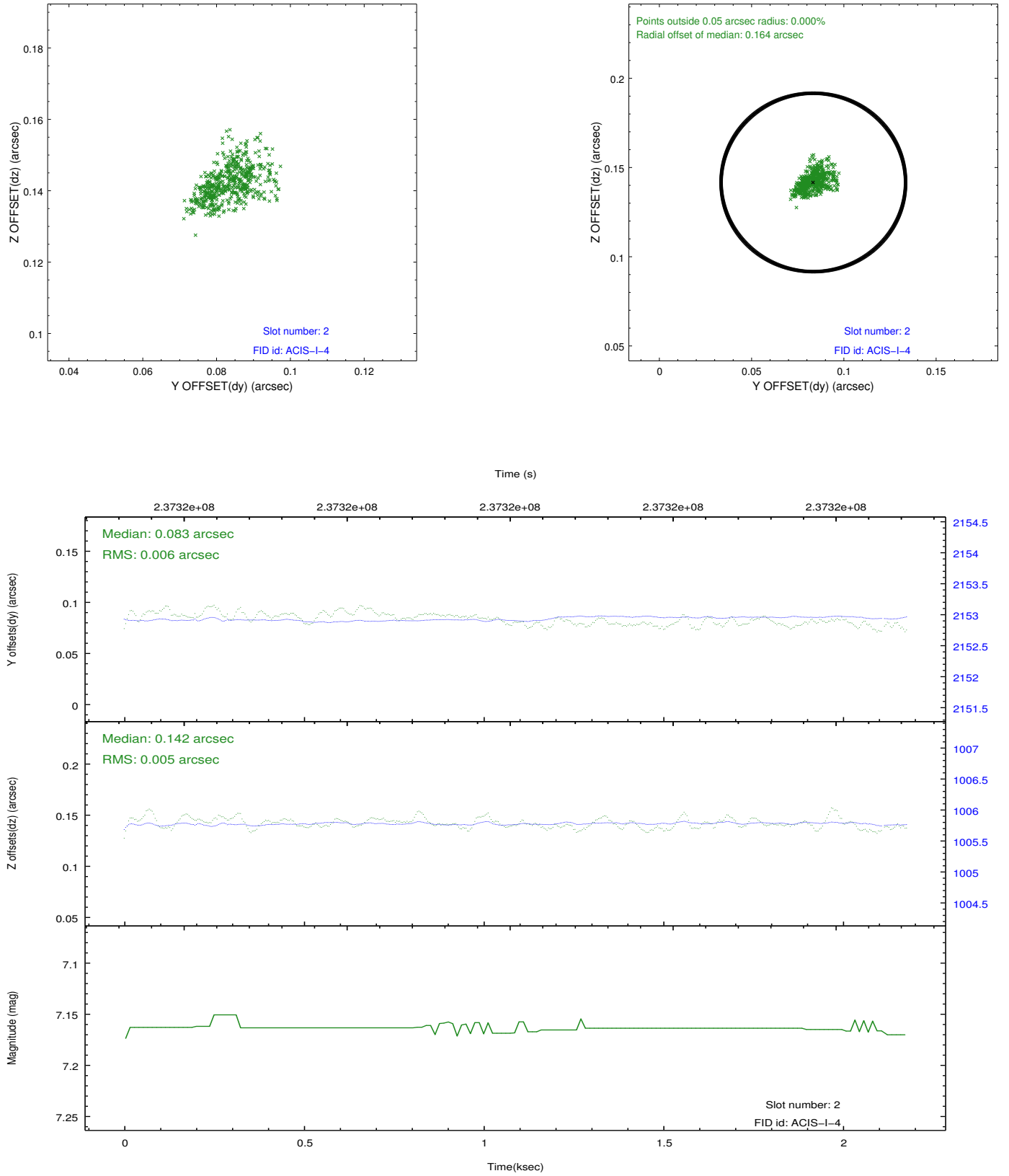
### 2.5.1 Slot 0



## 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)	2013.01.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.176199

### A.2 Comments