

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3311 - L2 Version 3  
Chandra X-Ray Center

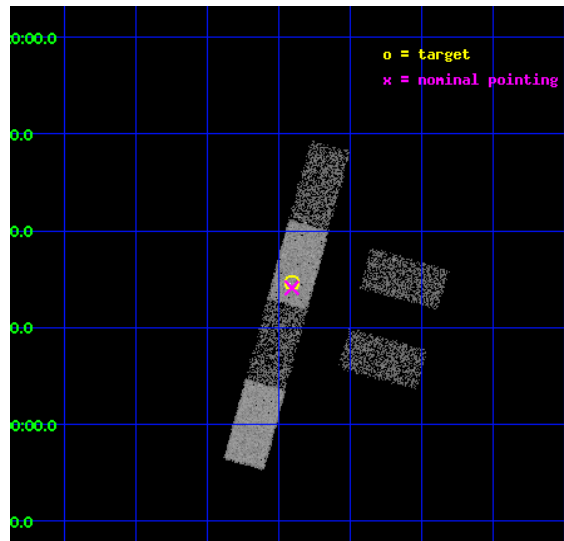
L2 Processing Date : Oct 2 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

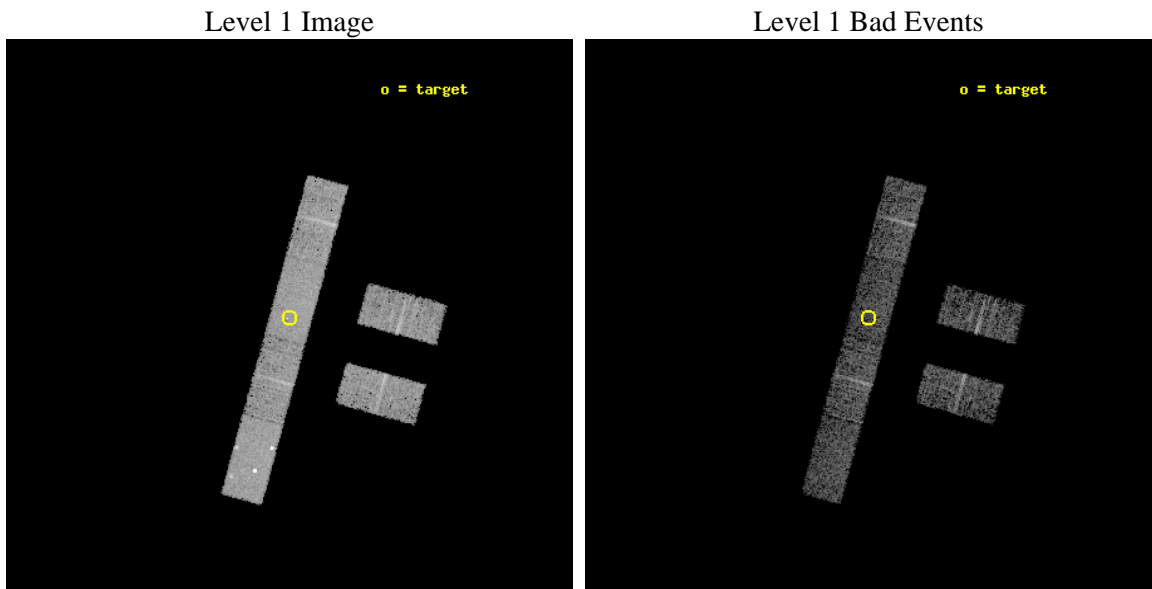
seq_num	900150	Sequence number
obs_id	3311	Observation id
title	THE SHEEP SURVEY: WHAT KIND OF OBJECTS MAKE THE X-RAY BACKGROUND?	&#160
observer	Prof Kirpal Nandra	Principal investigator
object	AX J0144.9-0345	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	26.225833	Observer's specified target RA [deg]
dec_targ	-3.755278	Observer's specified target Dec [deg]
ra_nom	26.226785695316	Nominal RA [deg]
dec_nom	-3.7649018838143	Nominal Dec [deg]
roll_nom	285.35600903813	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4759.1999921352	Sum of GTIs [s]
livetime	4653.1091045514	Livetime [s]
ontime2	4759.1999921352	Sum of GTIs [s]
ontime3	4759.0877854079	Sum of GTIs [s]
ontime5	4759.1698653996	Sum of GTIs [s]
ontime6	4759.1288453341	Sum of GTIs [s]
ontime7	4759.1999921352	Sum of GTIs [s]
ontime8	4759.0467653275	Sum of GTIs [s]
l2events	27849	Number of level 2 events



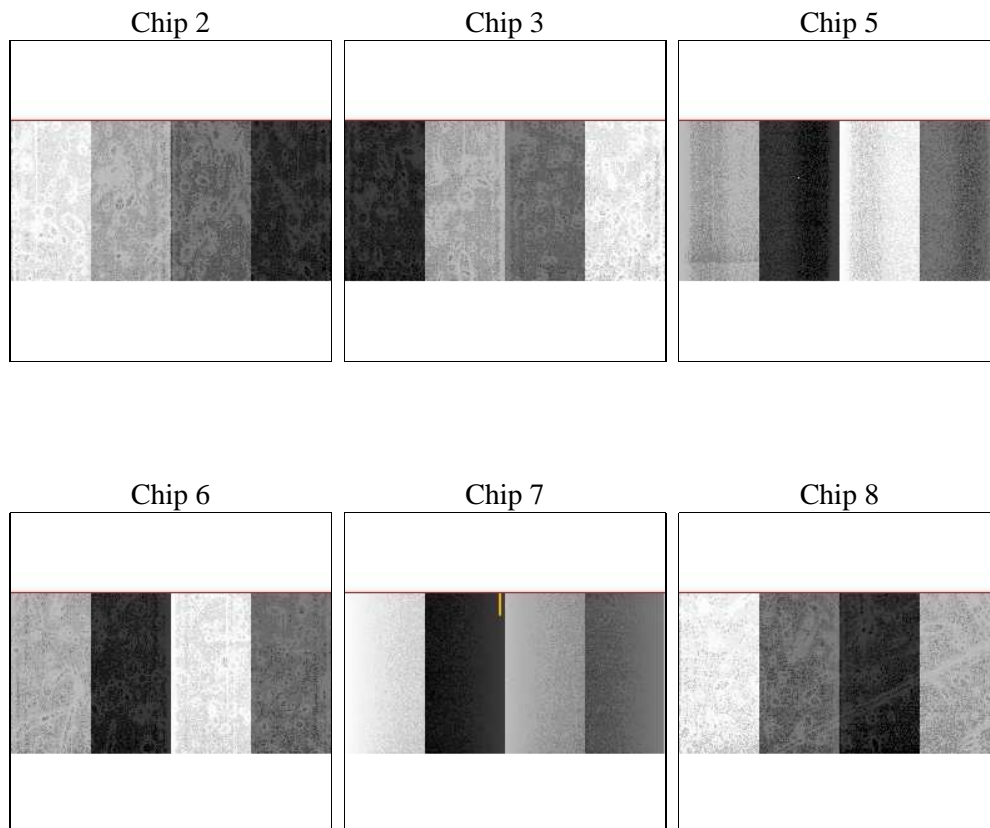
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4759.1999921352	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime2	4759.1999921352	Sum of GTIs [s]
date	2012-10-02T05:09:52	Date and time of file creation	ontime3	4759.0877854079	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4759.1698653996	Sum of GTIs [s]
			ontime6	4759.1288453341	Sum of GTIs [s]
			ontime7	4759.1999921352	Sum of GTIs [s]
			ontime8	4759.0467653275	Sum of GTIs [s]
			l1events	122768	Number of level 1 events

### 2.1.4 Events

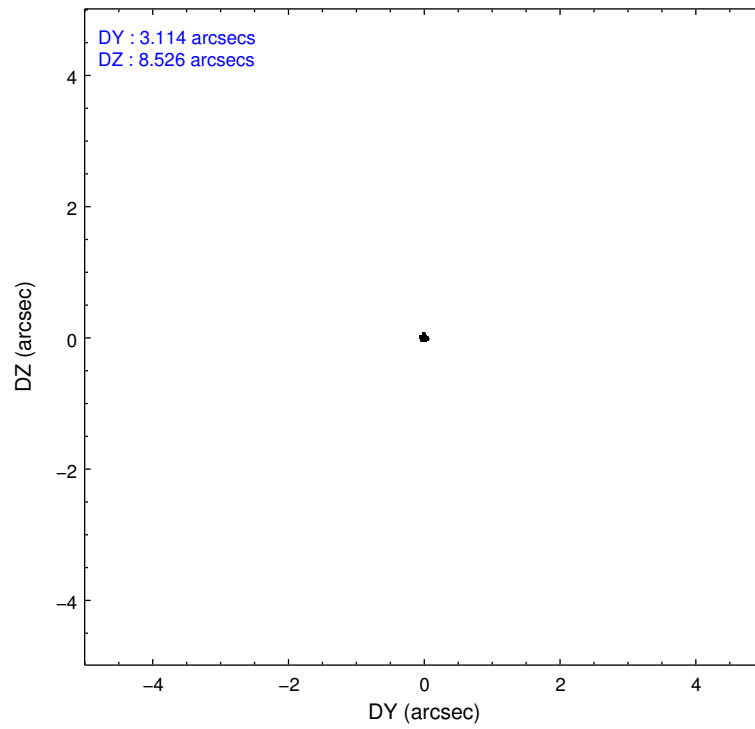
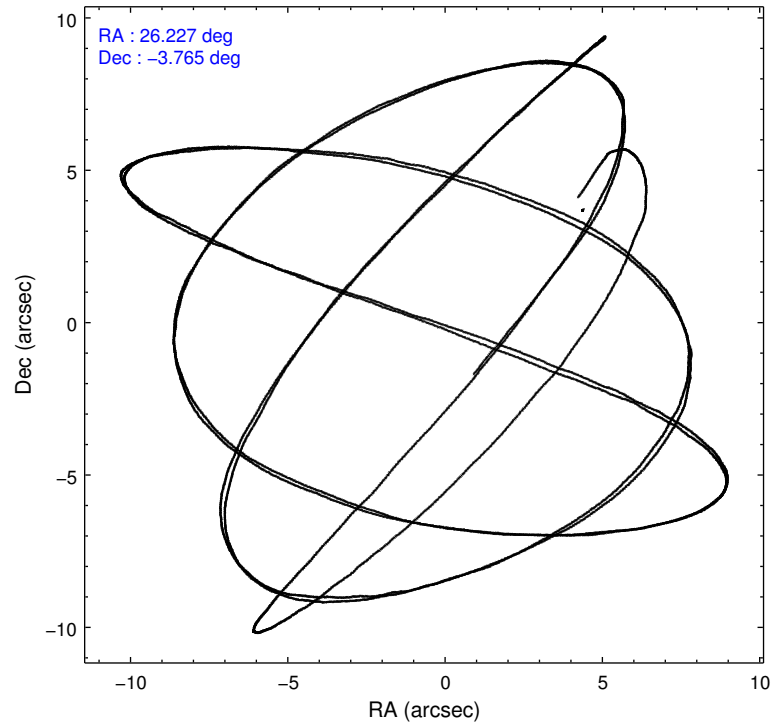
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	17111	16476	27788	17926	22163	21304
rejected events	15084	14547	12211	15857	11968	16936
rejected %	88%	88%	43%	88%	53%	79%

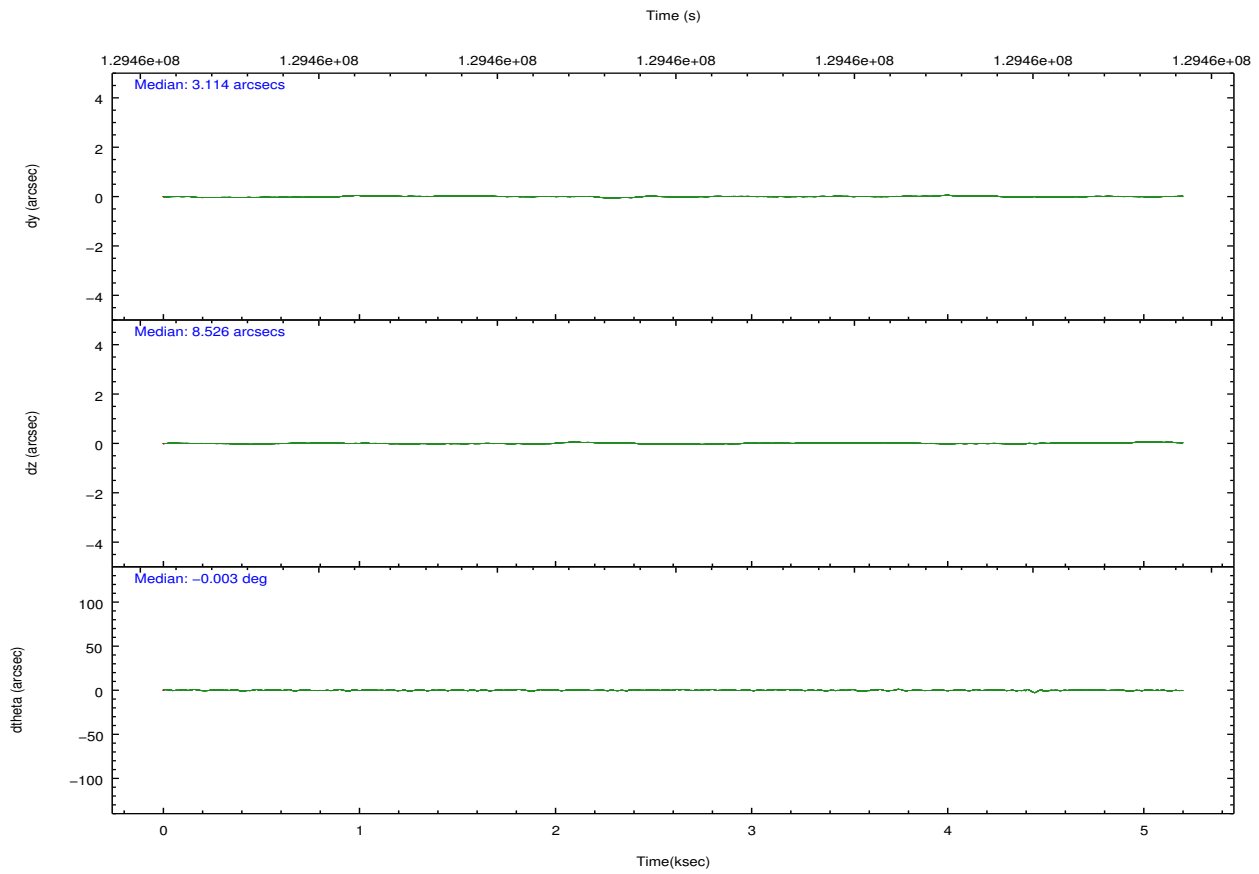
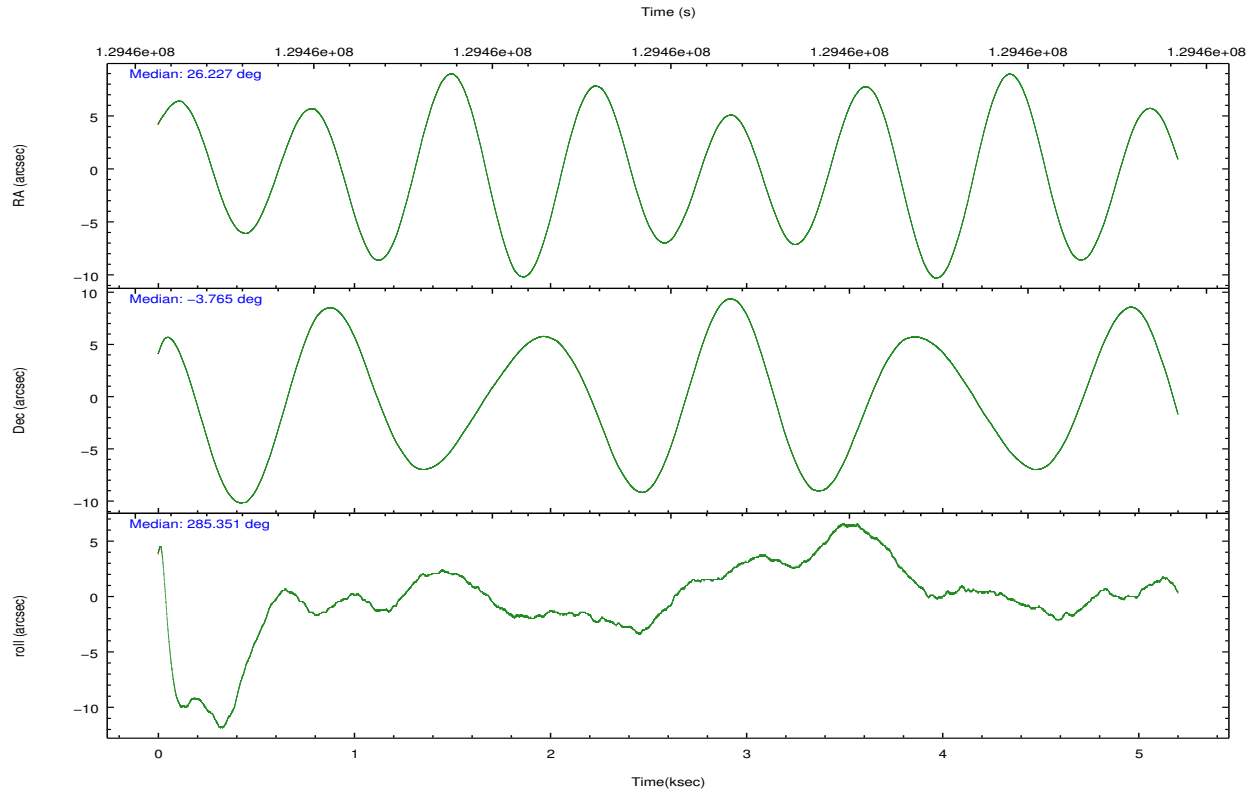
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	819	821	5467	833	1087	1498
	4%	4%	19%	4%	4%	7%
grade 1 events	8	8	60	8	27	12
	0%	0%	0%	0%	0%	0%
grade 2 events	431	352	3255	392	2015	889
	2%	2%	11%	2%	9%	4%
grade 3 events	200	243	621	229	1013	450
	1%	1%	2%	1%	4%	2%
grade 4 events	216	195	597	237	993	443
	1%	1%	2%	1%	4%	2%
grade 5 events	596	618	1852	691	2051	870
	3%	3%	6%	3%	9%	4%
grade 6 events	362	319	5648	378	5098	1090
	2%	1%	20%	2%	23%	5%
grade 7 events	14479	13920	10288	15158	9879	16052
	84%	84%	37%	84%	44%	75%

## 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	26.207049	26.22678569531648	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-3.746042	-3.764901883814327	Subarray start row	257	257
[deg] Pointing Roll	285.198067	285.3560090381256	Subarray row count	512	512
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1.8
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	129456583.184000	129455996.86668			
Observation start date	2002-02-07T08:08:39	2002-02-07T07:59:56			
[s] Observation end time (MET)	129461583.184000	129462058.71693			
Observation end date	2002-02-07T09:31:59	2002-02-07T09:40:58			
Read mode	TIMED	TIMED			

## 2.3 Aspect



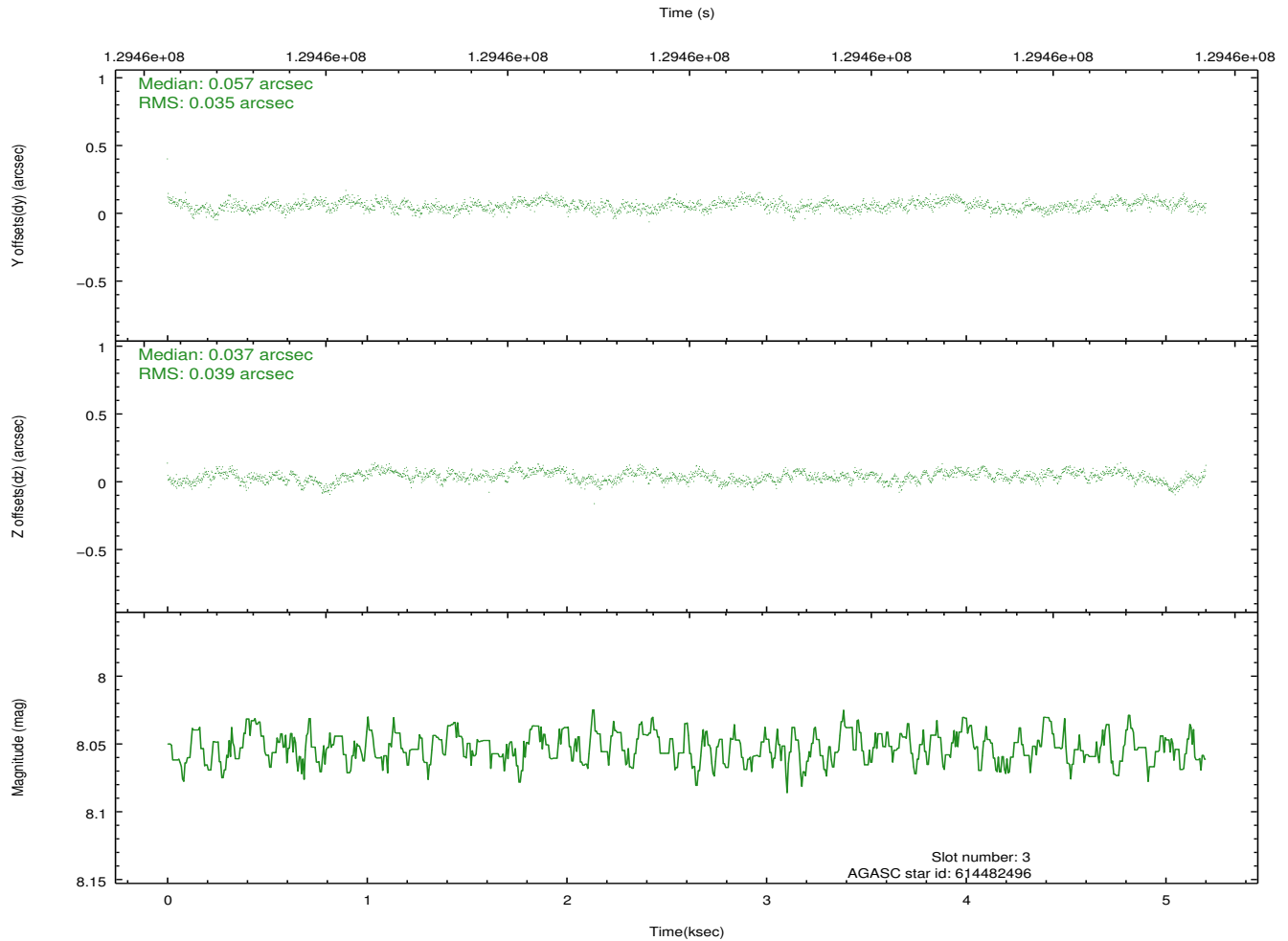
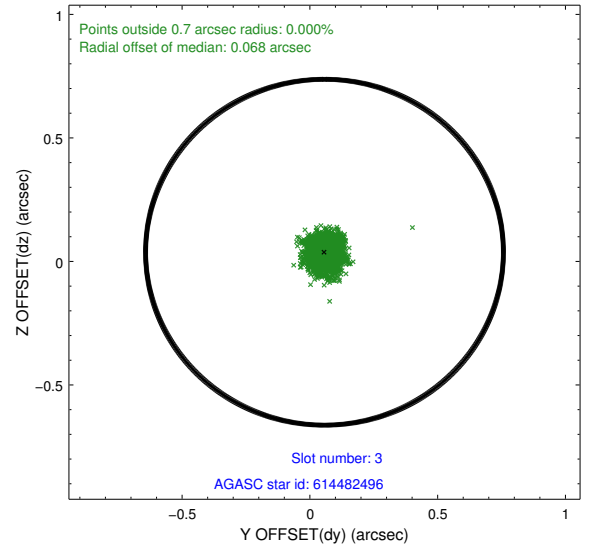
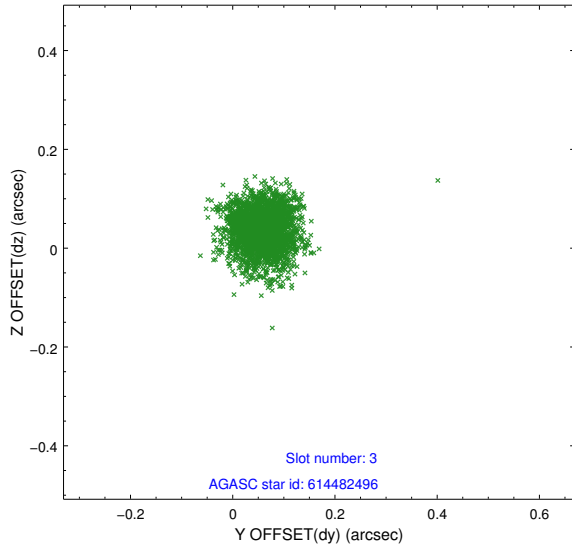


### Slot Statistics

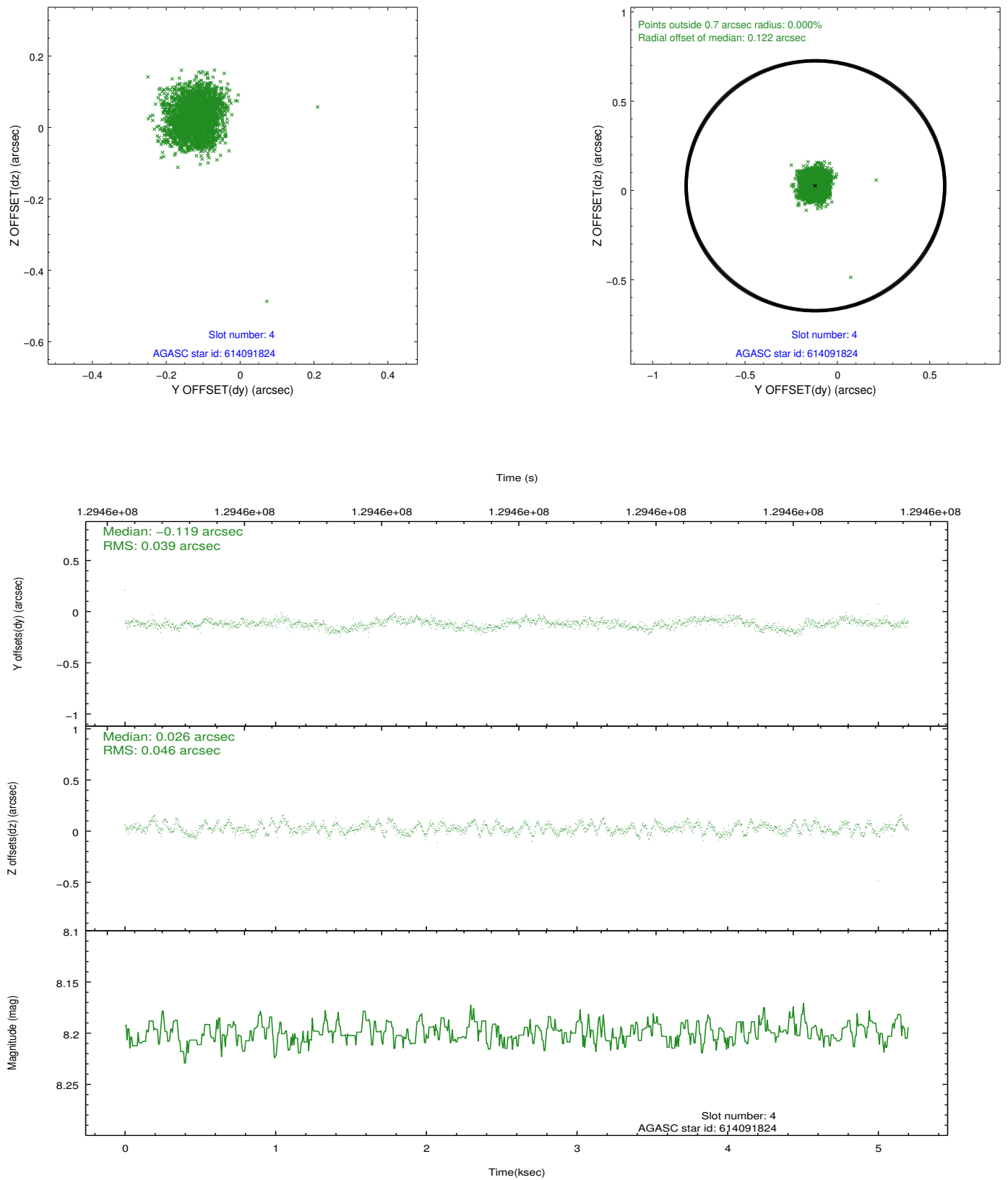
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.36	1269	-0.078	-0.025	0.007	0.011	0.000000	0.000000	57.32	-1858.77
1	FID	ACIS-S-4	7.20	1269	0.002	0.053	0.006	0.010	0.000000	0.000000	2157.64	177.50
2	FID	ACIS-S-5	7.24	1269	0.048	-0.019	0.006	0.011	0.000000	0.000000	-1807.05	172.61
3	GUIDE	614482496	8.05	2537	0.057	0.037	0.055	0.091	26.490453	-4.228669	1944.46	526.19
4	GUIDE	614091824	8.20	2538	-0.119	0.026	0.065	0.100	25.814046	-3.522871	-1143.70	-1152.45
5	GUIDE	614091272	8.40	2537	-0.187	-0.015	0.074	0.123	25.586662	-3.424551	-1700.36	-1849.24
6	GUIDE	614345376	9.29	2537	0.128	-0.029	0.089	0.145	25.702118	-4.344424	1604.71	-2315.06
7	GUIDE	614345176	9.75	2536	0.125	-0.008	0.097	0.159	25.877982	-4.292809	1591.74	-1657.13

## 2.4 Star Slots

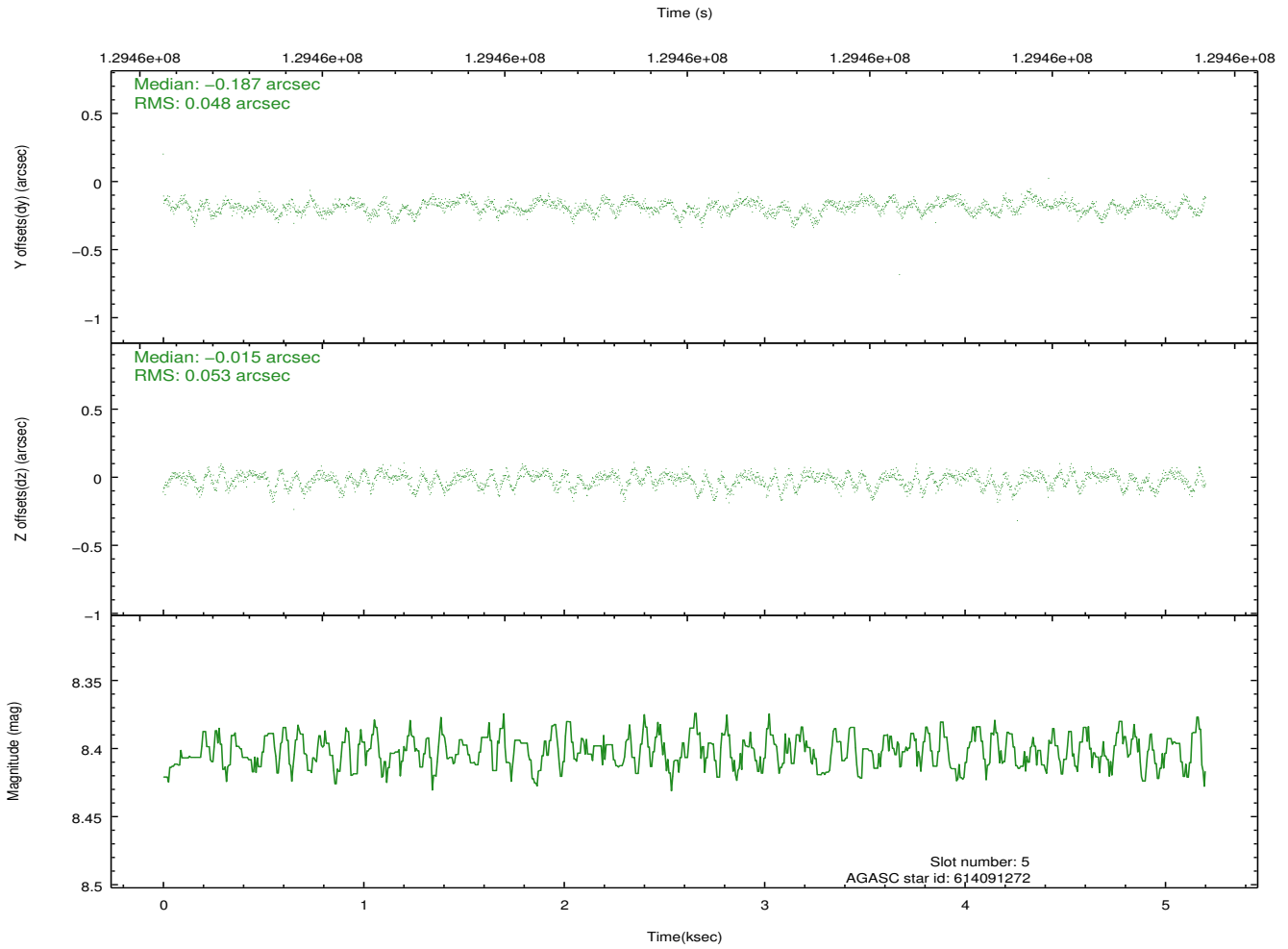
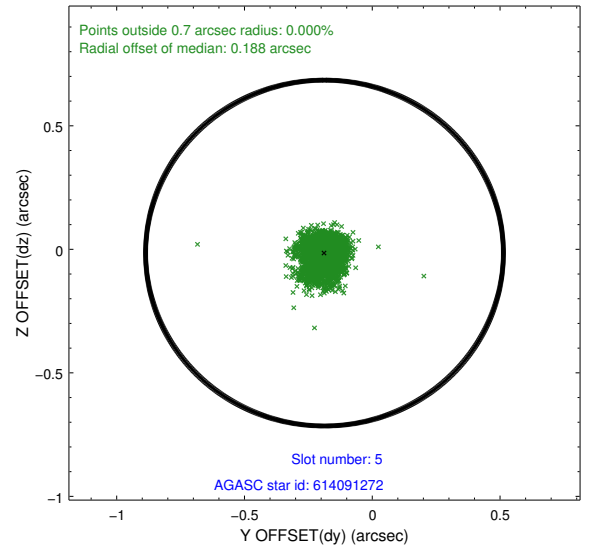
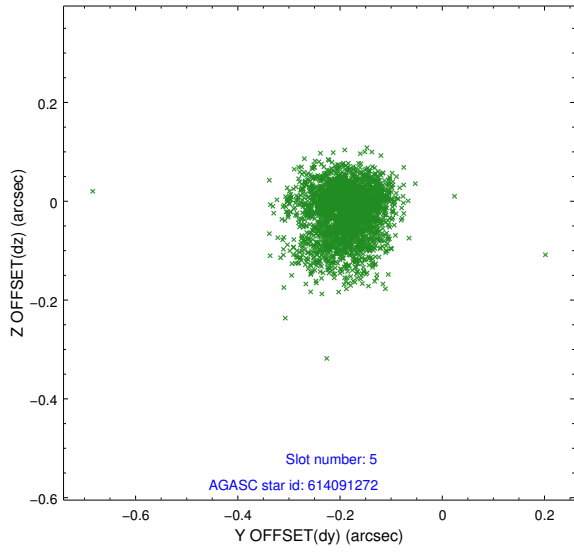
### 2.4.1 Slot 3



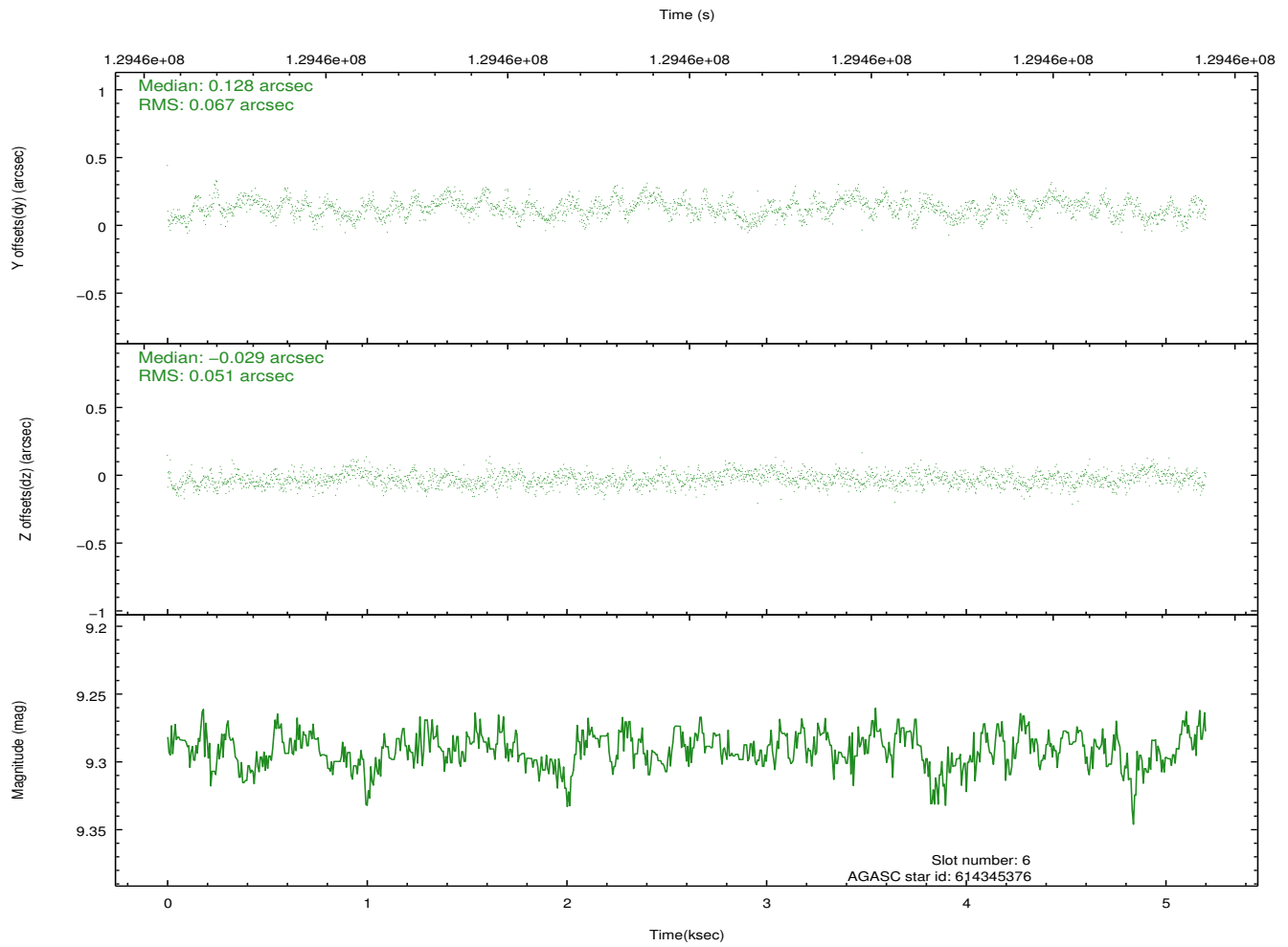
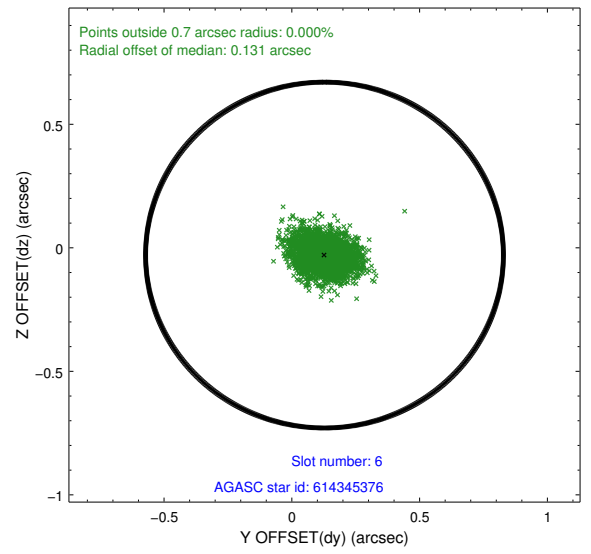
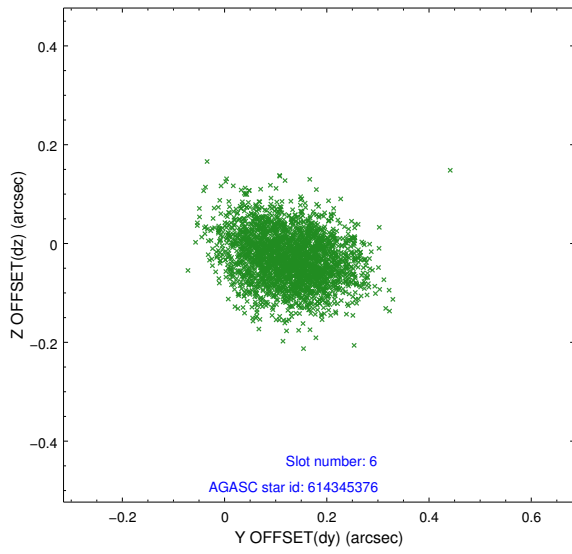
## 2.4.2 Slot 4



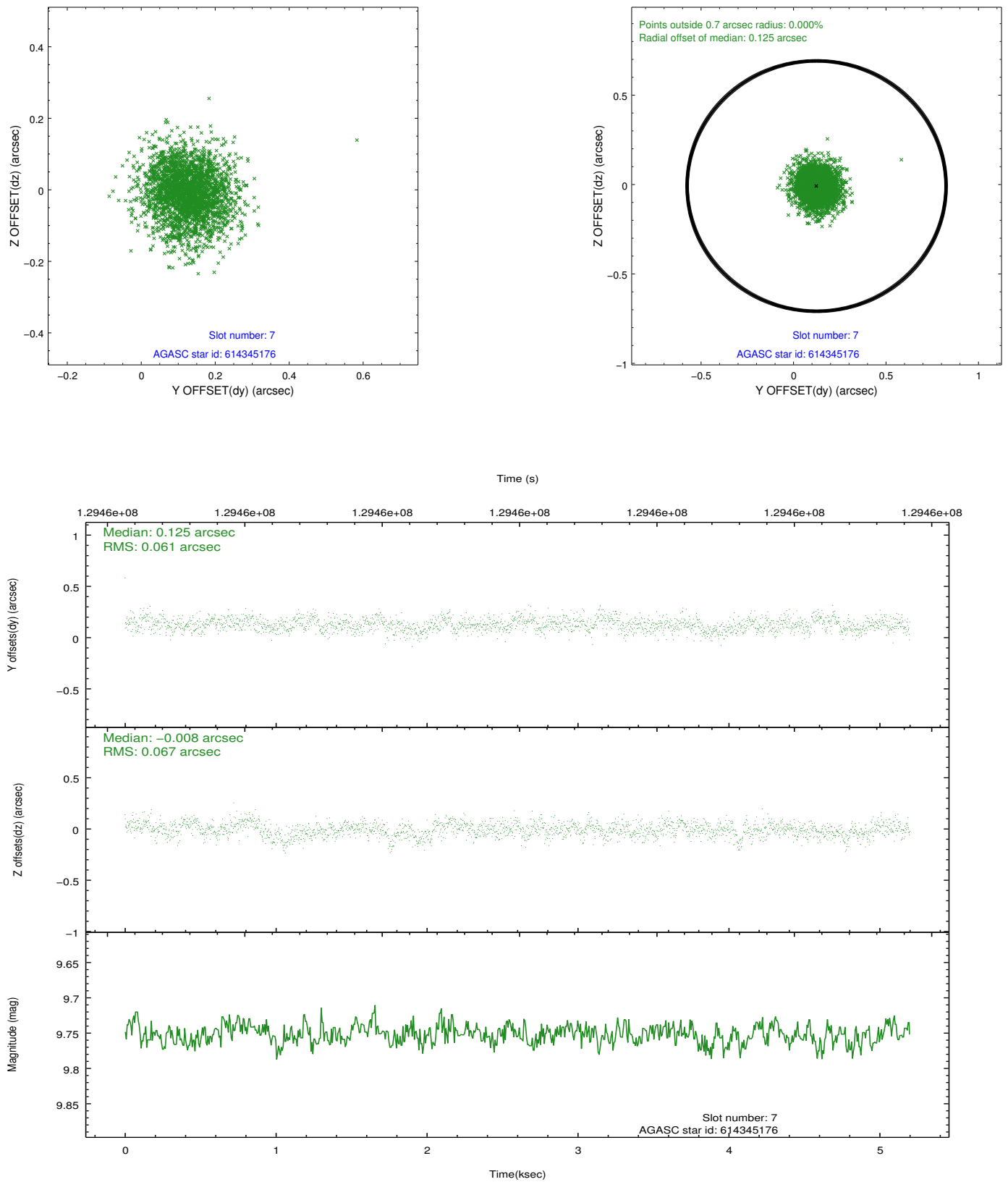
### 2.4.3 Slot 5



### 2.4.4 Slot 6

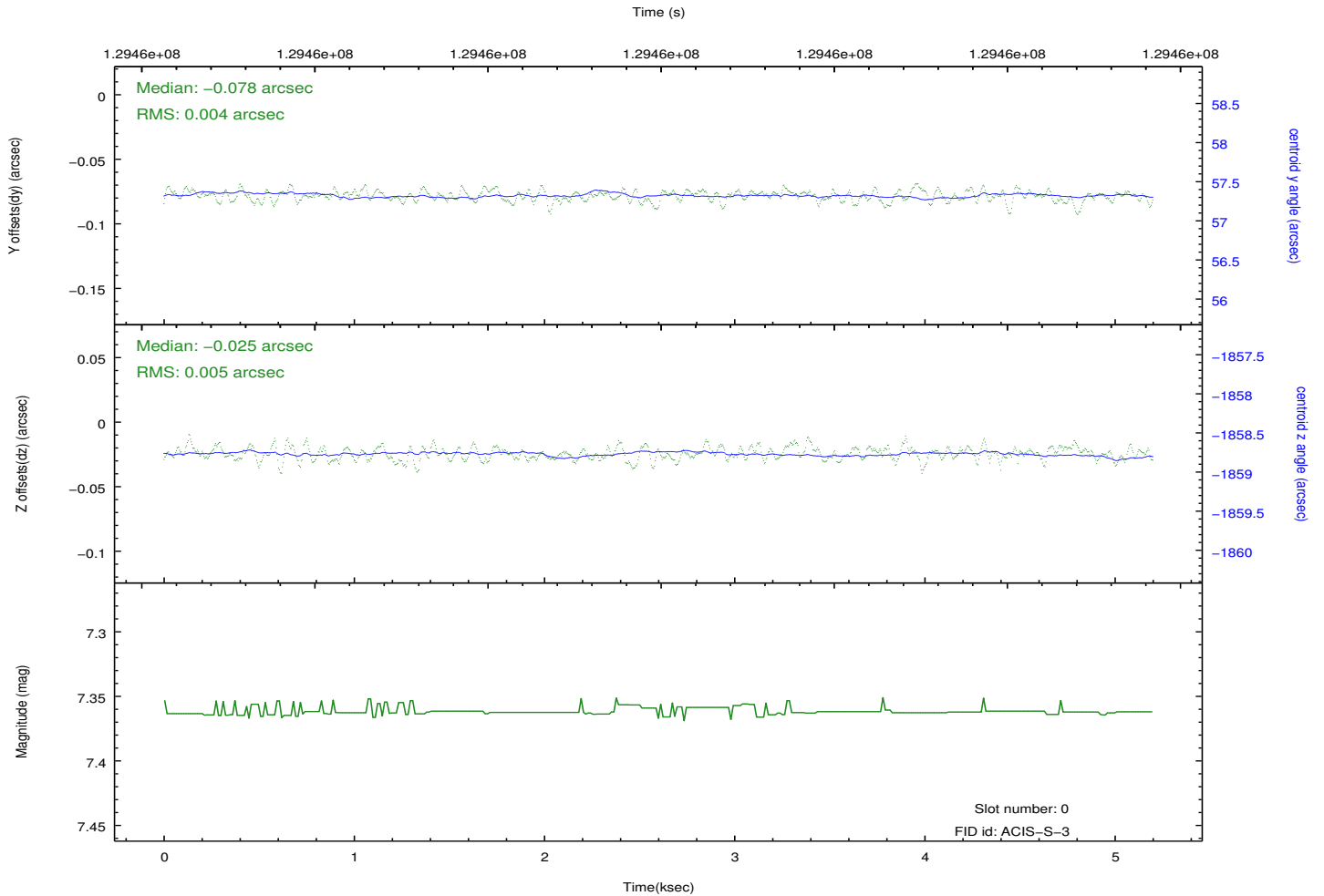
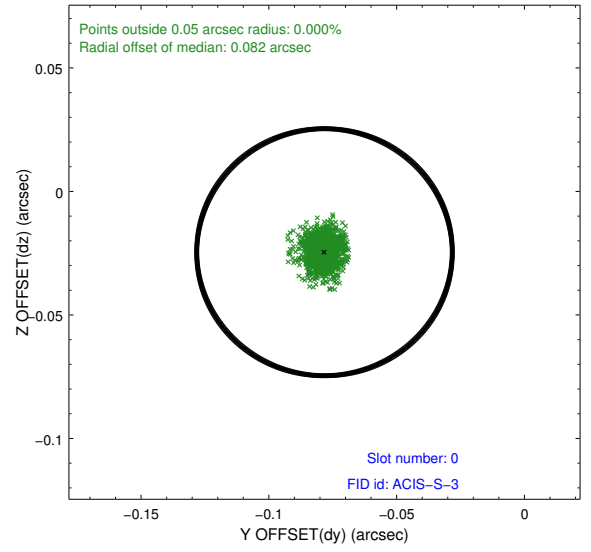
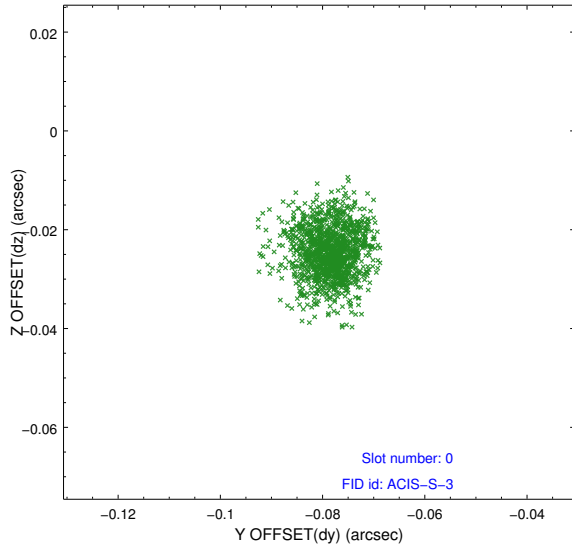


## 2.4.5 Slot 7

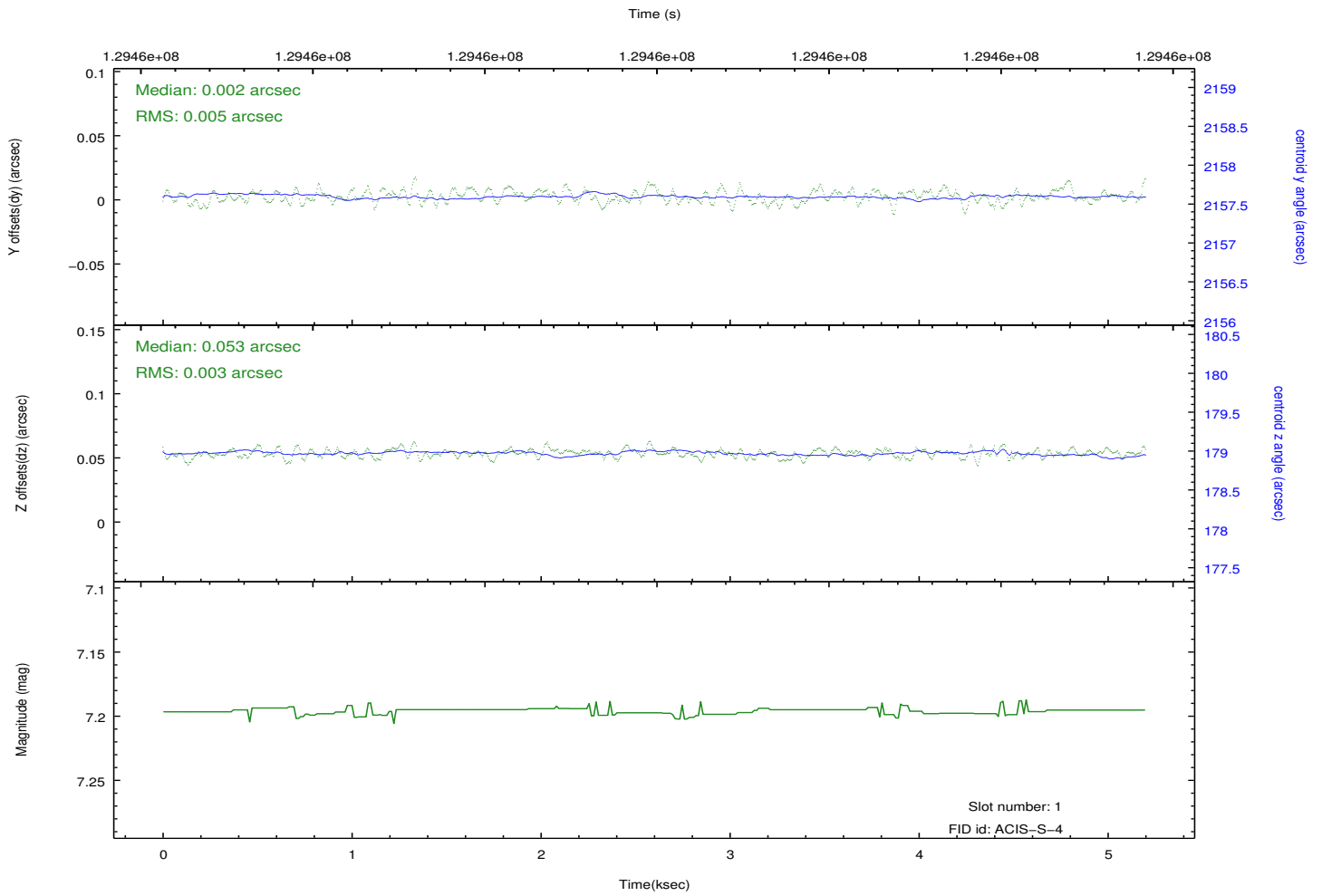
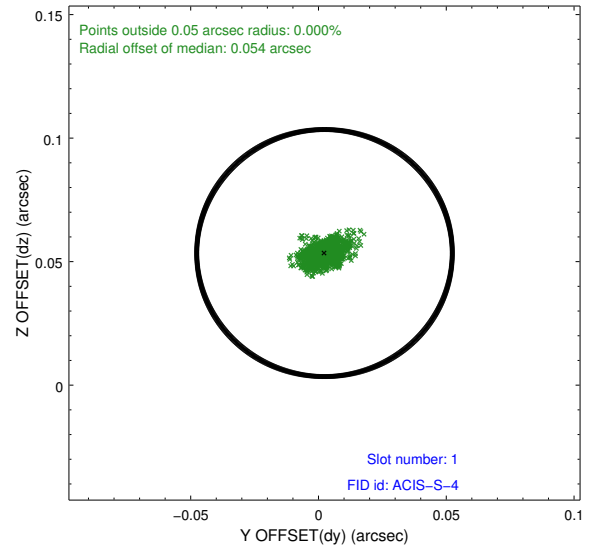
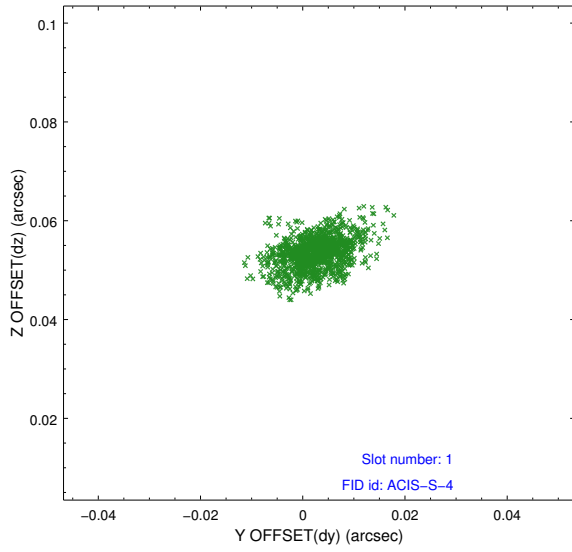


## 2.5 FID Slots

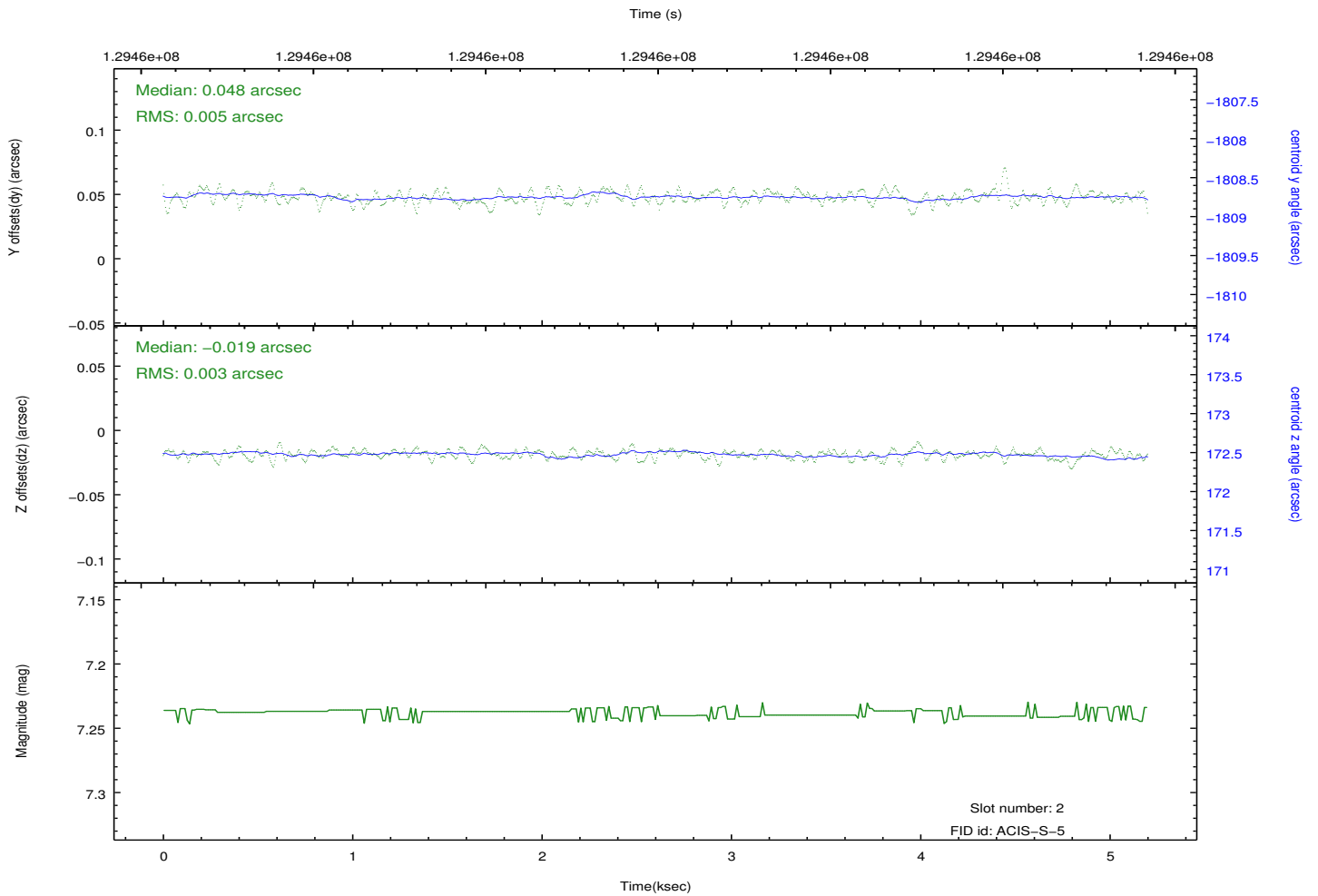
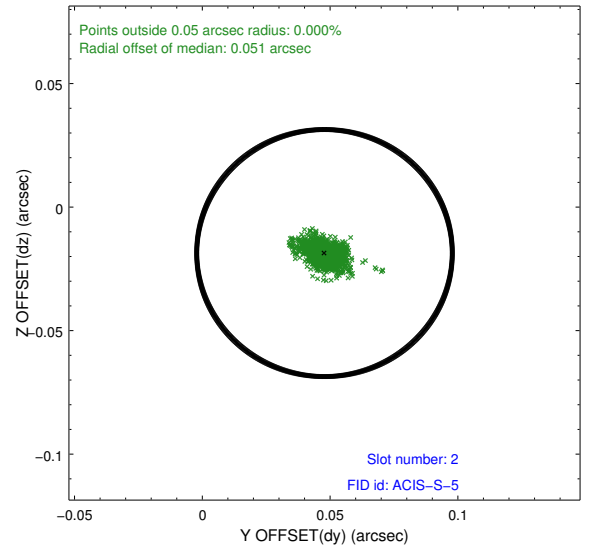
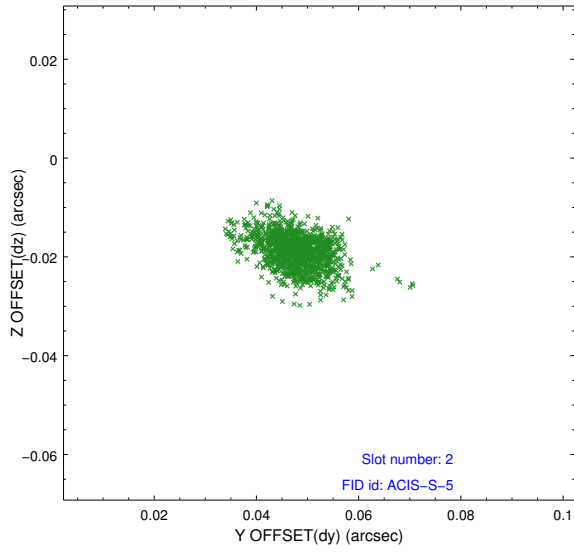
### 2.5.1 Slot 0



## 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)	2012.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.76

## A.2 Comments

Joint proposal with NOAO.