

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 399 - L2 Version 4  
Chandra X-Ray Center

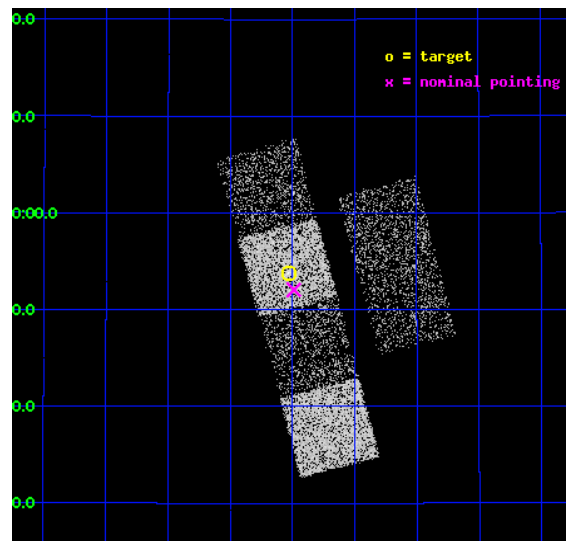
L2 Processing Date : Aug 30 2012

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# 1 Front

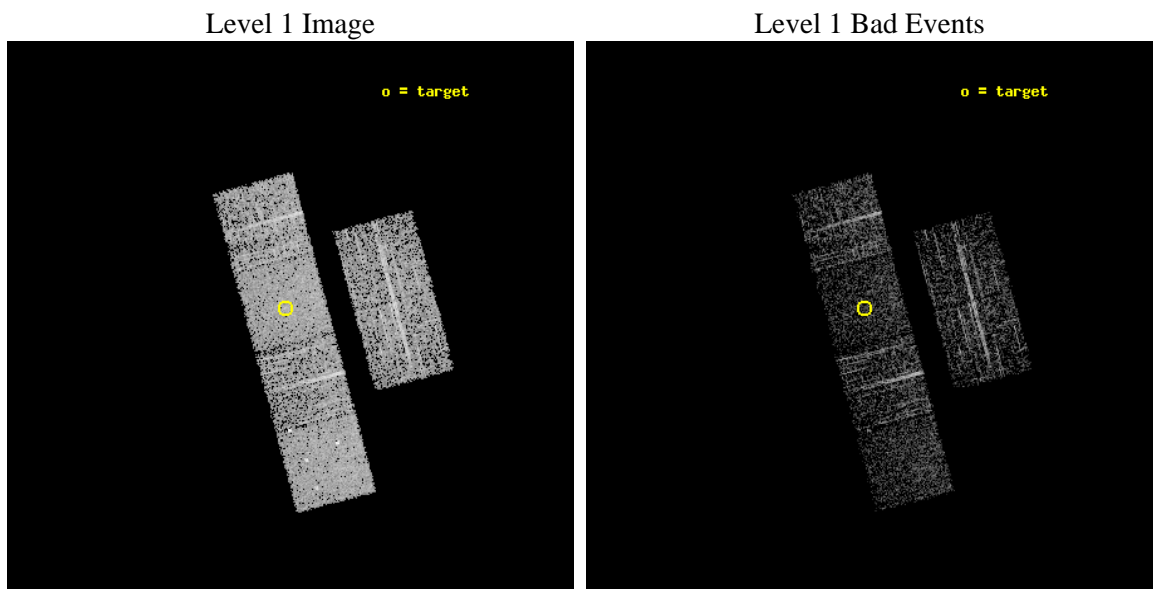
seq_num	700071	Sequence number
obs_id	399	Observation id
title	LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI IN NEARBY GALAXIES	Proposal
observer	Professor Gordon Garmire	Principal investigator
object	NGC 4314	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	185.632917	Observer's specified target RA [deg]
dec_targ	29.895278	Observer's specified target Dec [deg]
ra_nom	185.62200546734	Nominal RA [deg]
dec_nom	29.86754875536	Nominal Dec [deg]
roll_nom	255.0809532903	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1950.5037595779	Sum of GTIs [s]
livetime	1925.8053065217	Livetime [s]
ontime2	1953.7857498229	Sum of GTIs [s]
ontime3	1953.6215898246	Sum of GTIs [s]
ontime5	1953.7036698163	Sum of GTIs [s]
ontime6	1953.6626298279	Sum of GTIs [s]
ontime7	1950.5037595779	Sum of GTIs [s]
ontime8	1953.5805498213	Sum of GTIs [s]
l2events	18291	Number of level 2 events



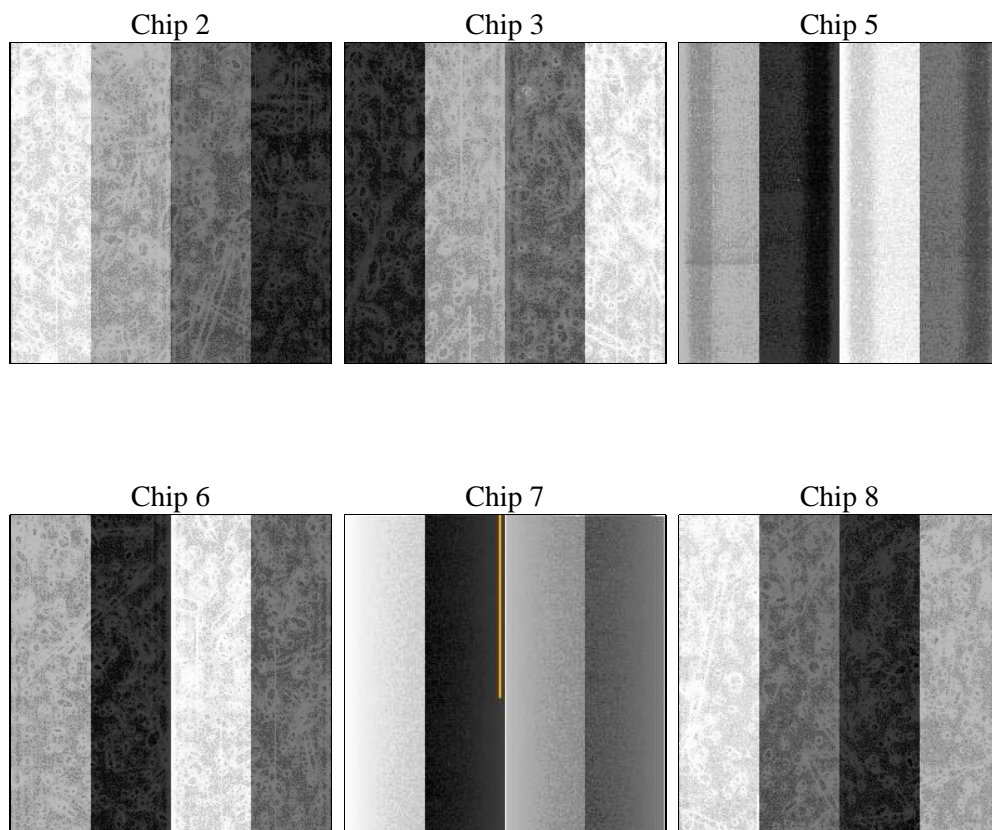
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	1950.5037595779	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	1953.7857498229	Sum of GTIs [s]
date	2012-08-30T03:40:43	Date and time of file creation	ontime3	1953.6215898246	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	1953.7036698163	Sum of GTIs [s]
			ontime6	1953.6626298279	Sum of GTIs [s]
			ontime7	1950.5037595779	Sum of GTIs [s]
			ontime8	1953.5805498213	Sum of GTIs [s]
			l1events	89750	Number of level 1 events

### 2.1.4 Events

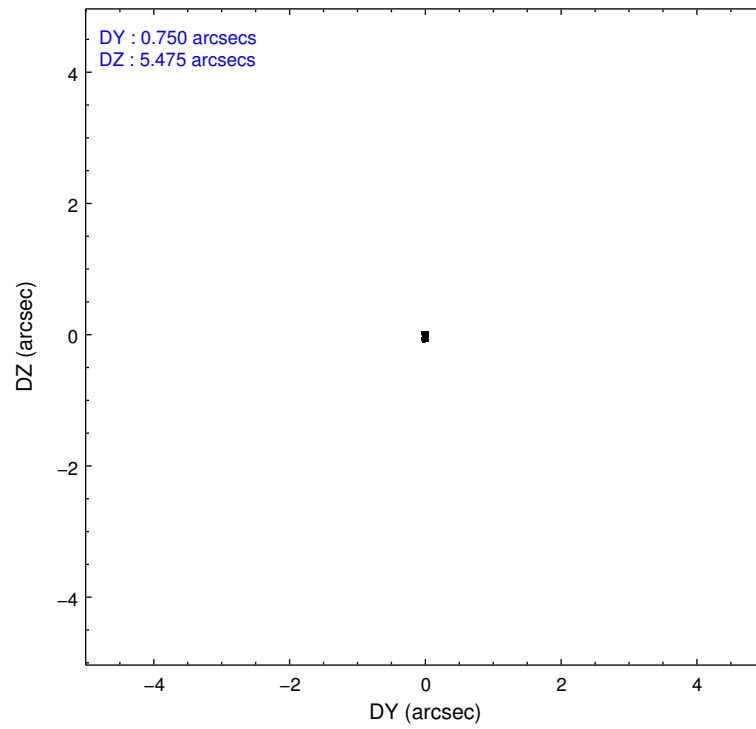
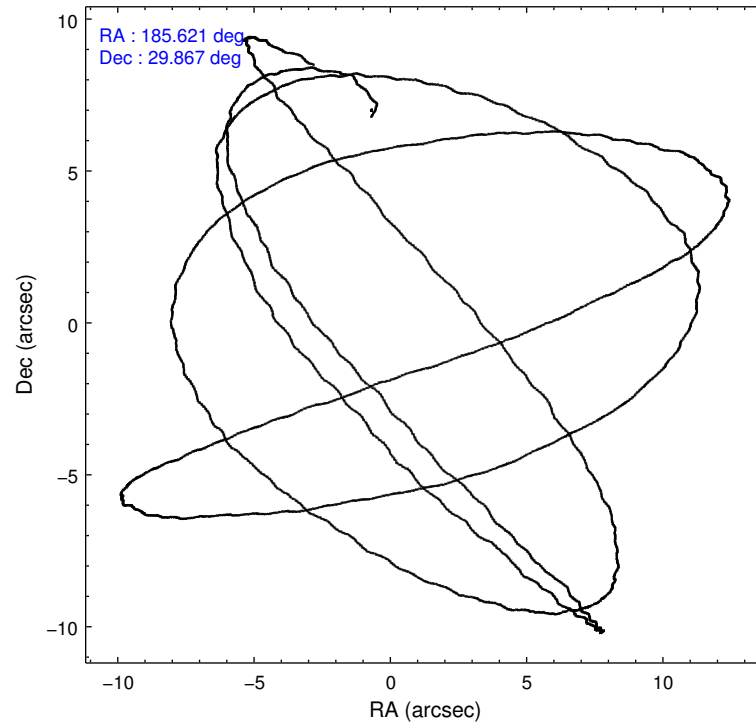
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	13621	12848	17430	14047	15512	16292
rejected events	12322	11443	9164	12633	8920	13438
rejected %	90%	89%	52%	89%	57%	82%

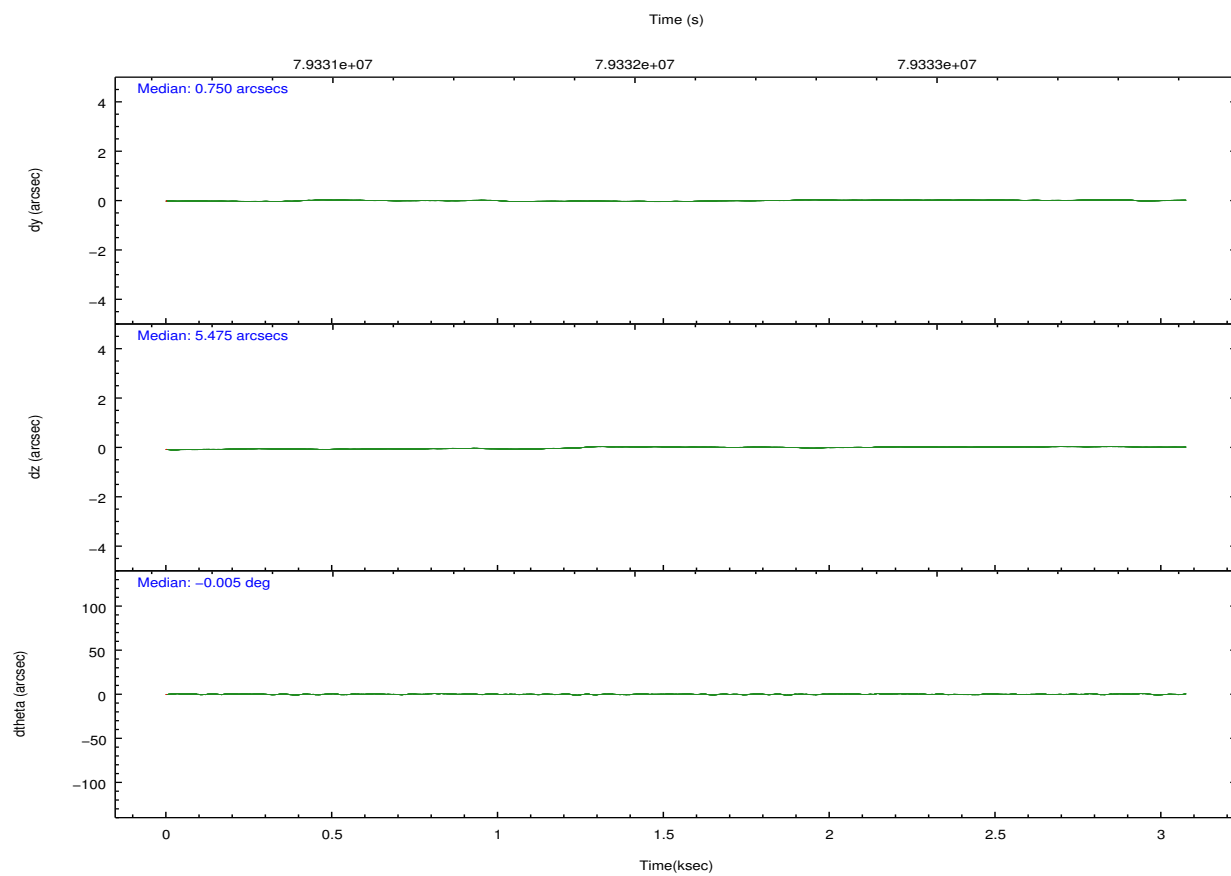
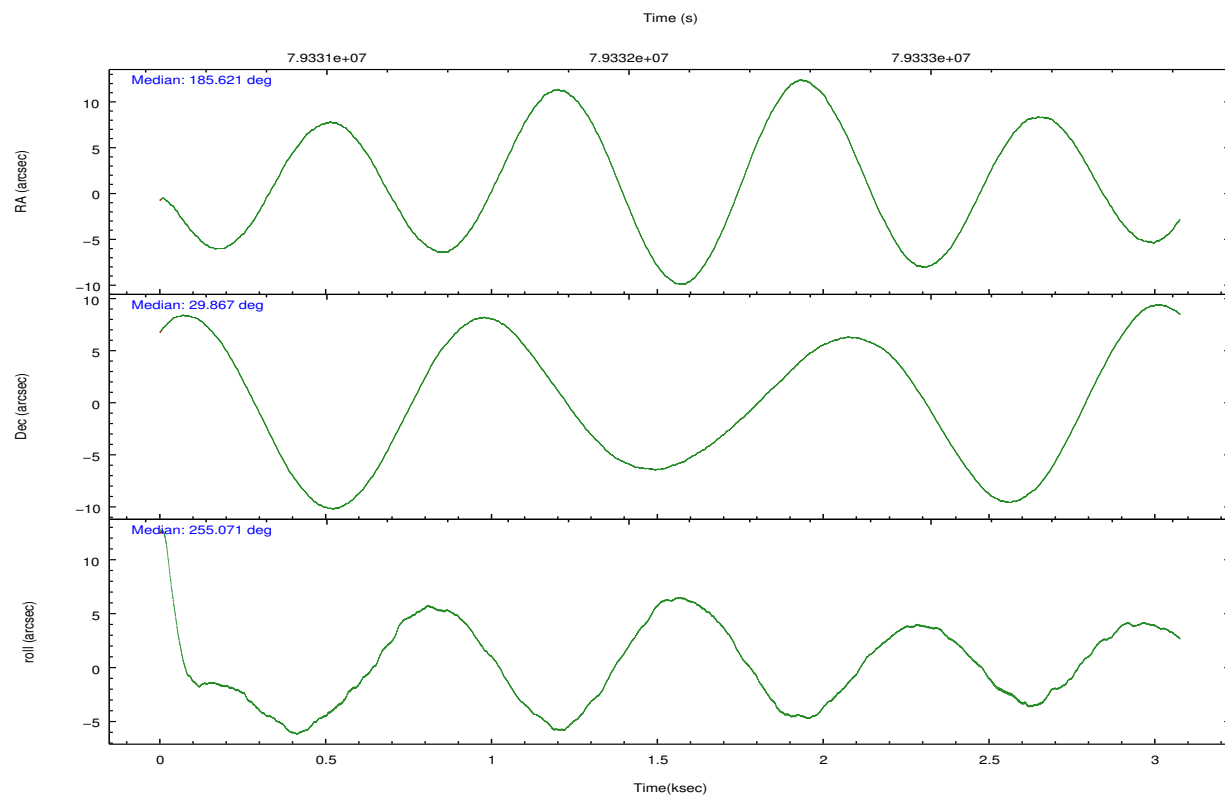
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	553	615	1302	588	688	991
	4%	4%	7%	4%	4%	6%
grade 1 events	9	5	44	3	15	10
	0%	0%	0%	0%	0%	0%
grade 2 events	277	289	2280	287	1282	535
	2%	2%	13%	2%	8%	3%
grade 3 events	118	136	368	146	598	337
	0%	1%	2%	1%	3%	2%
grade 4 events	134	155	346	139	625	321
	0%	1%	1%	0%	4%	1%
grade 5 events	371	482	1306	499	1516	654
	2%	3%	7%	3%	9%	4%
grade 6 events	219	213	3985	258	3407	681
	1%	1%	22%	1%	21%	4%
grade 7 events	11940	10953	7799	12127	7381	12763
	87%	85%	44%	86%	47%	78%

## 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	185.613766	185.6220054673401	Subarray requested	NONE	NONE
[deg] Pointing Dec	29.893878	29.86754875536039	Alternating exposures requested	N	N
[deg] Pointing Roll	254.928377	255.0809532902997	[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)	79331675.184000	79330271.809412			
Observation start date	2000-07-07T04:33:31	2000-07-07T04:11:11			
[s] Observation end time (MET)	79333675.184000	79334259.57205901			
Observation end date	2000-07-07T05:06:51	2000-07-07T05:17:39			
Read mode	TIMED	TIMED			

## 2.3 Aspect





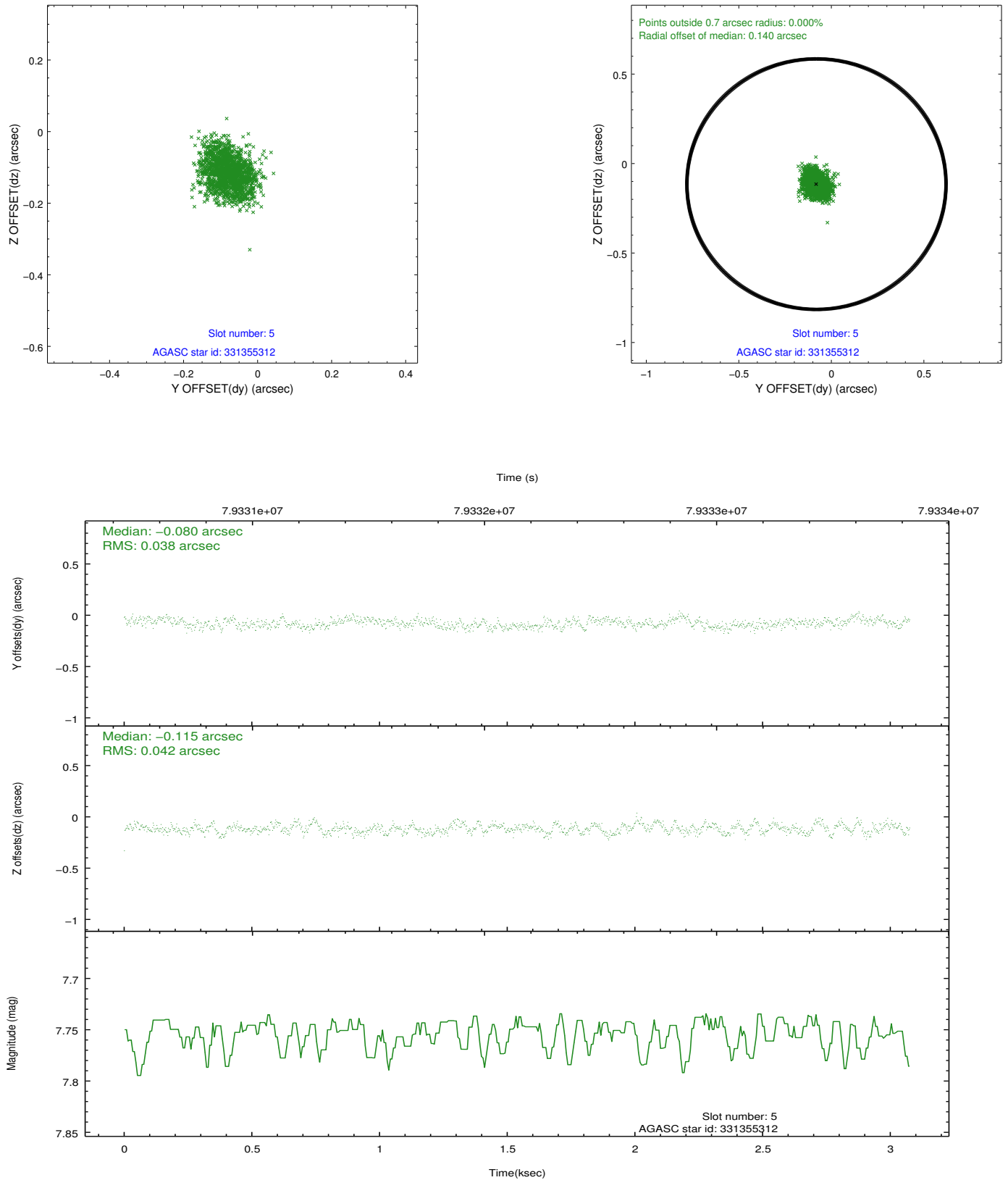
### Slot Statistics

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	750	-0.046	-0.007	0.006	0.010	0.000000	0.000000	-753.36	-1726.54
1	FID	ACIS-S-4	7.21	750	0.028	0.024	0.005	0.009	0.000000	0.000000	2159.04	179.86
2	FID	ACIS-S-5	7.23	749	-0.012	-0.008	0.006	0.010	0.000000	0.000000	-1803.50	175.82
3	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
4	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	GUIDE	331355312	7.75	1501	-0.080	-0.115	0.061	0.094	184.992302	30.486549	-1564.14	-2416.48
6	GUIDE	260964592	9.75	1497	0.022	0.161	0.104	0.172	186.307418	29.951441	-770.90	2033.83
7	GUIDE	331350544	8.70	1500	0.061	-0.045	0.081	0.130	184.879941	30.167953	-366.40	-2460.81

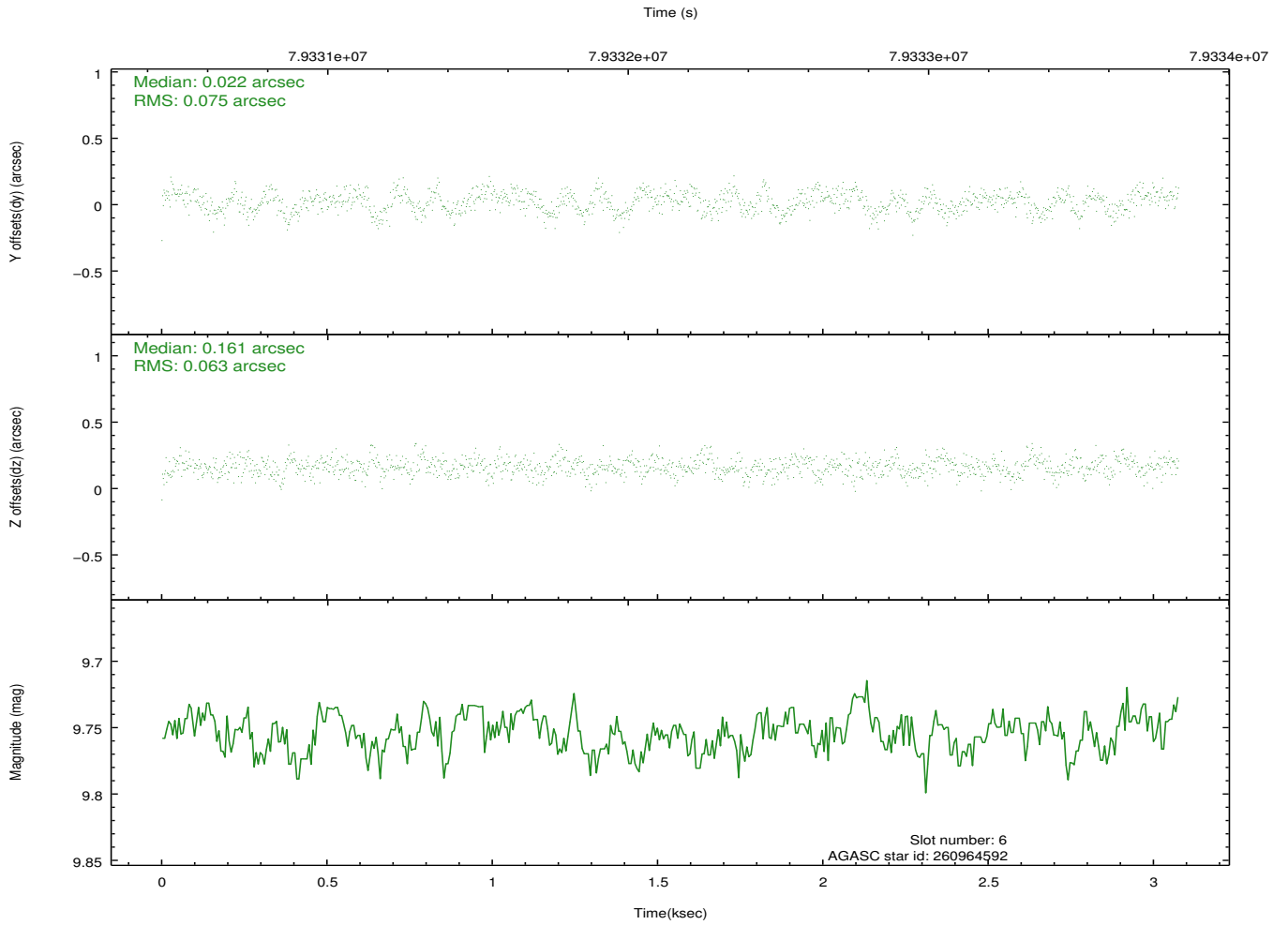
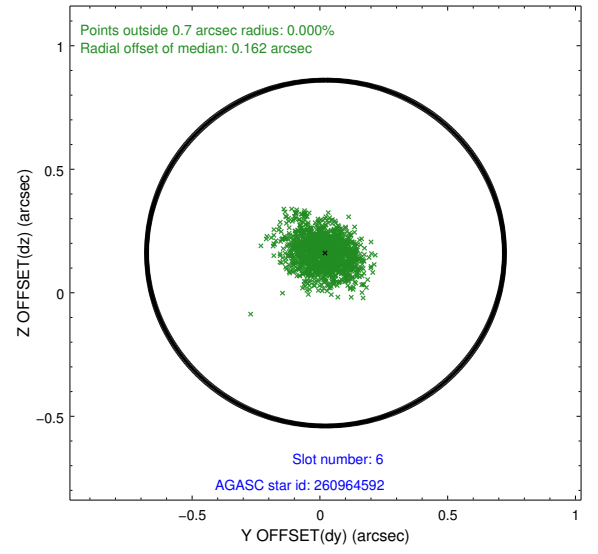
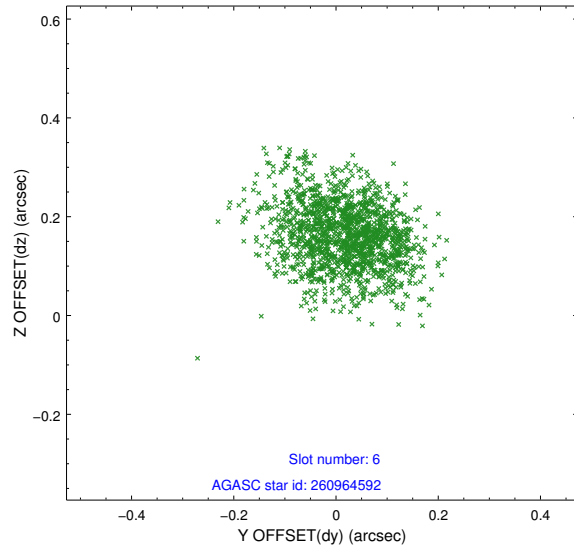


## 2.4 Star Slots

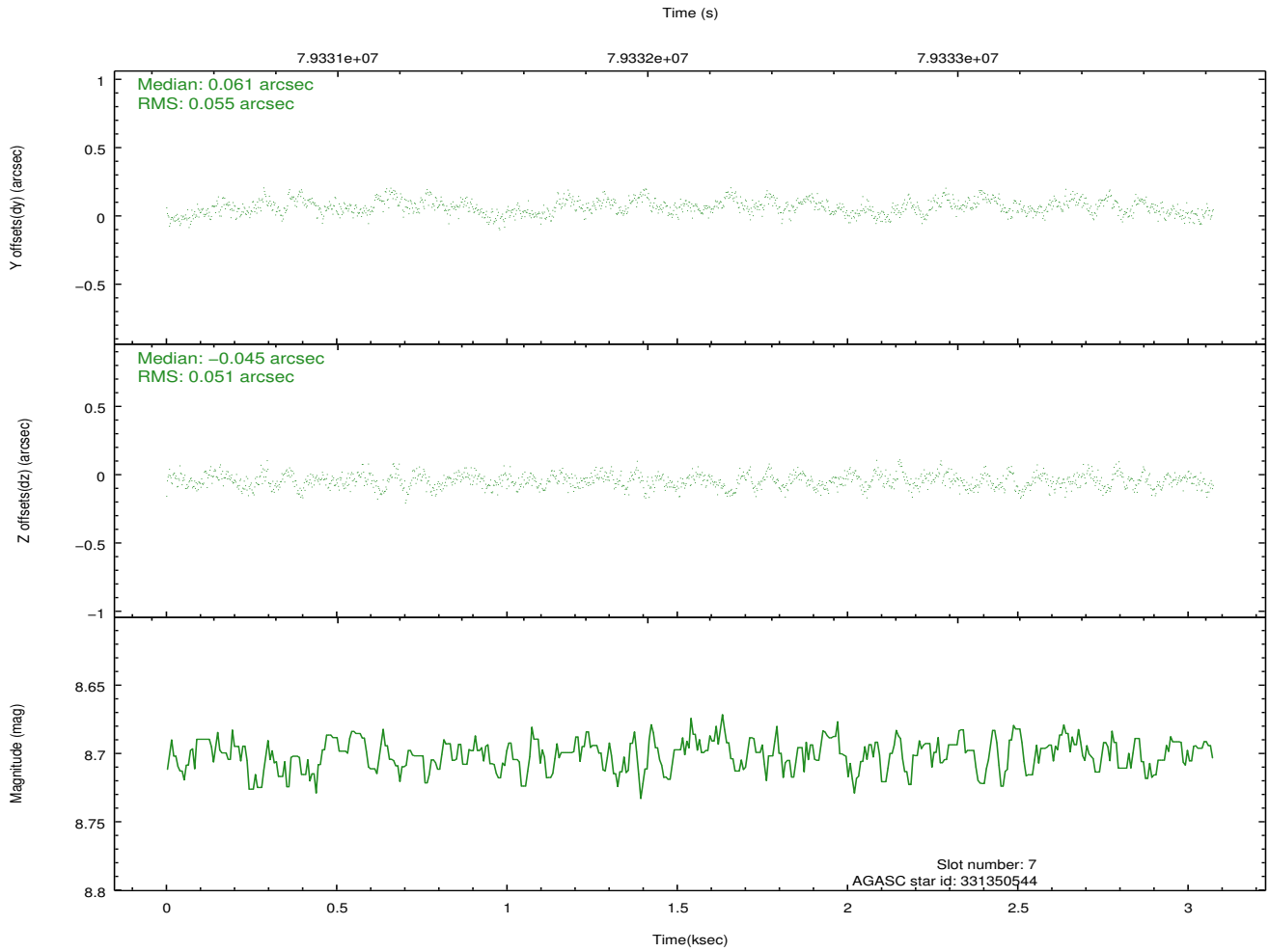
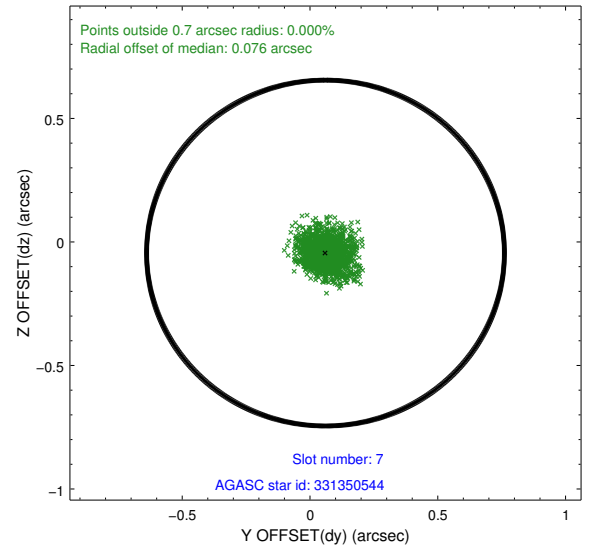
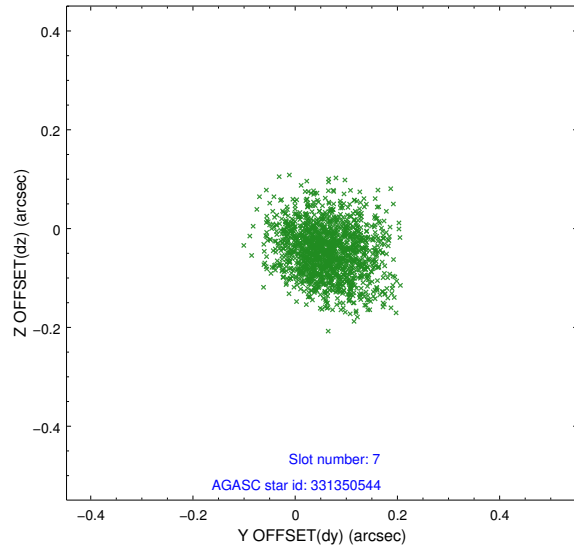
### 2.4.1 Slot 5



## 2.4.2 Slot 6

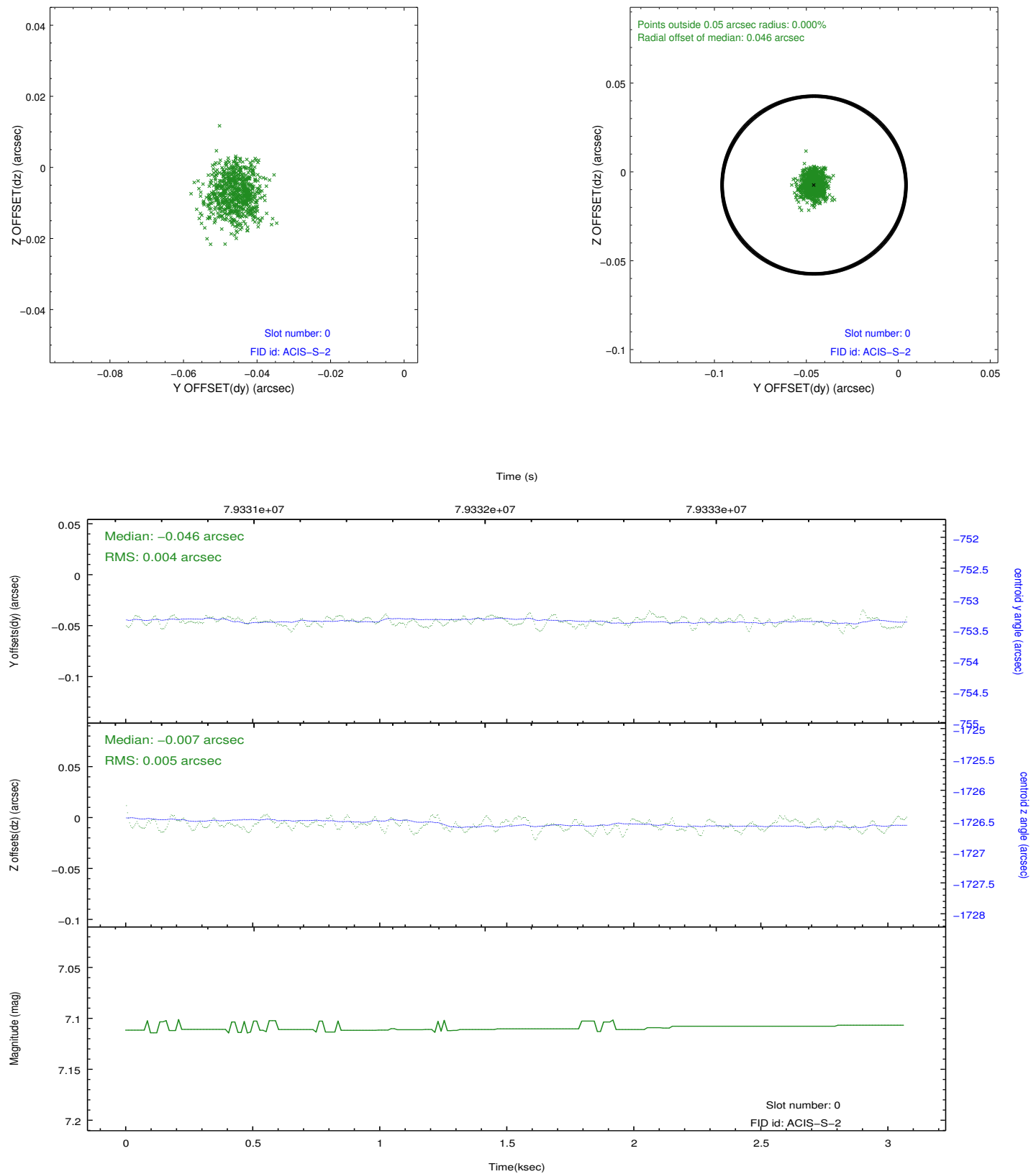


### 2.4.3 Slot 7

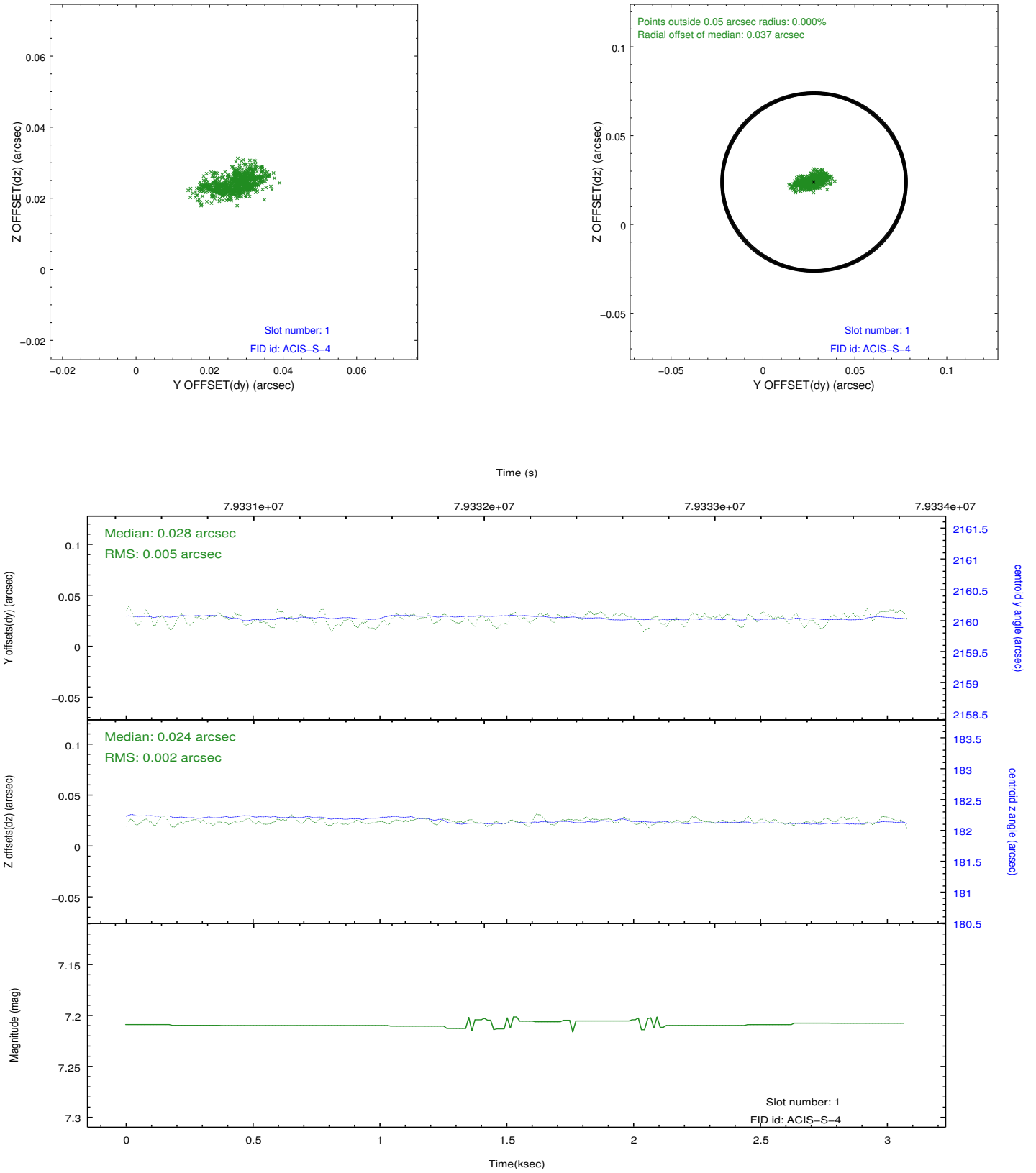


## 2.5 FID Slots

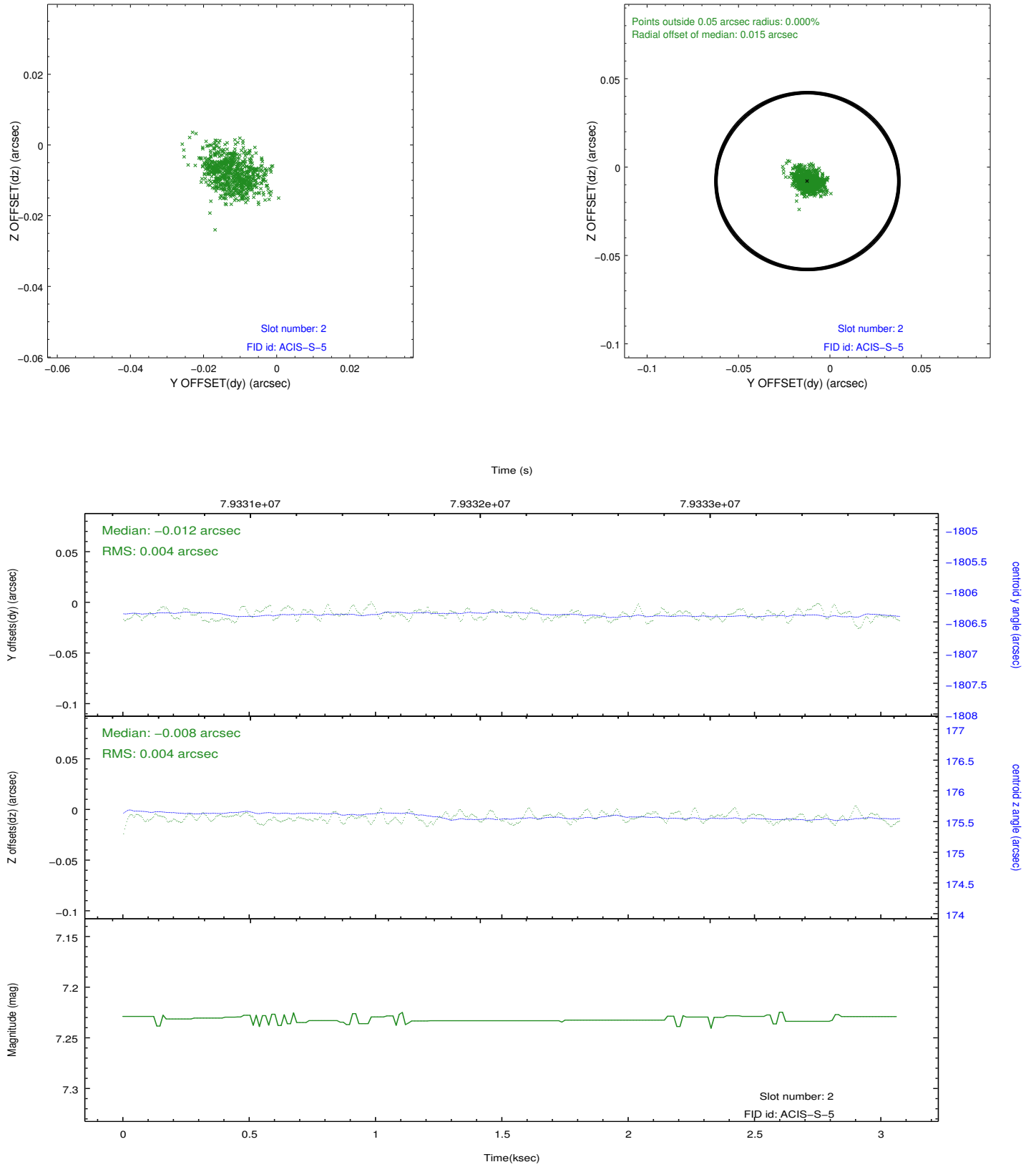
### 2.5.1 Slot 0



## 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)	2012.09.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.952

### A.2 Comments

Slots 3 and 4 were not used in this observation.