

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 6967 - L2 Version 2  
Chandra X-Ray Center

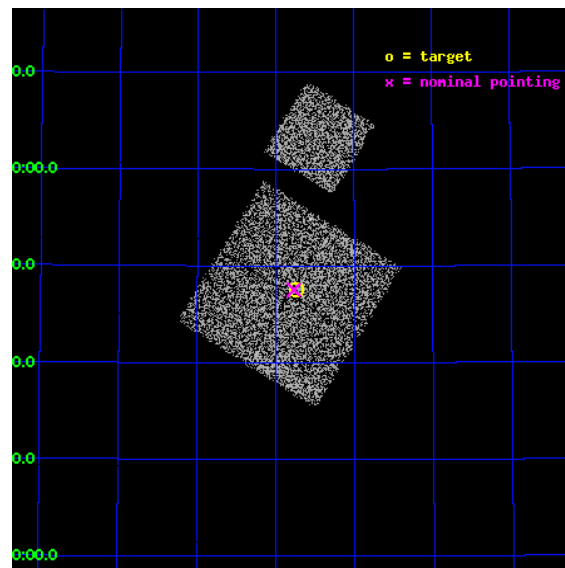
L2 Processing Date : Apr 11 2012

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# 1 Front

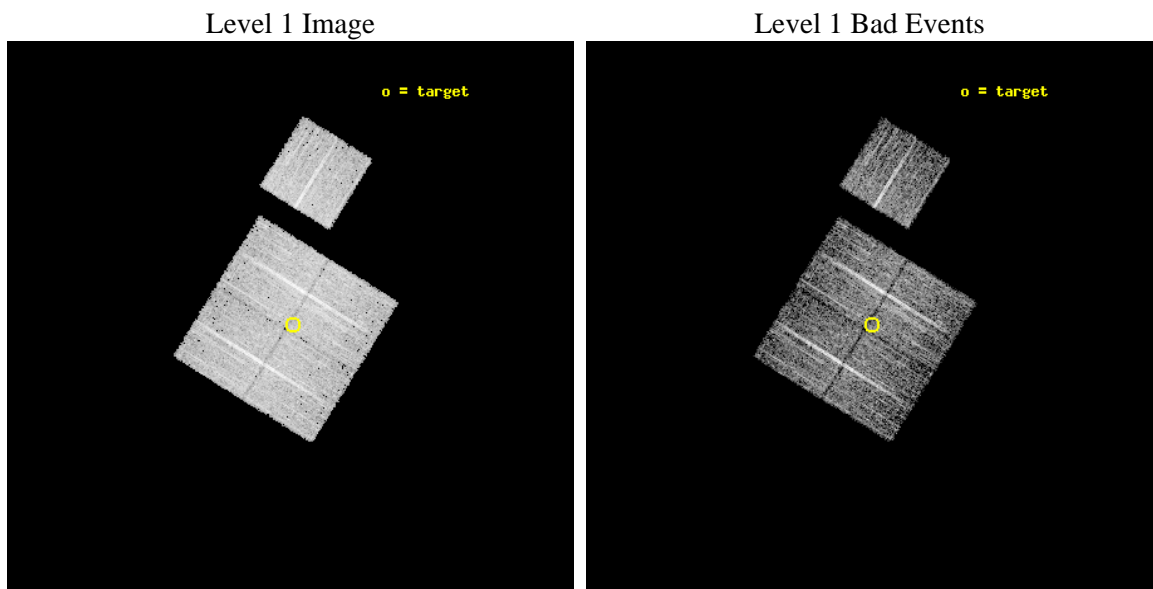
seq_num	800600	Sequence number
obs_id	6967	Observation id
title	A Search for the Origin of Ultrahigh Energy Cosmic Rays	Proposal t
observer	Prof. David Helfand	Principal investigator
object	P11	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.184	Observer's specified target RA [deg]
dec_targ	56.7917	Observer's specified target Dec [deg]
ra_nom	168.19257810156	Nominal RA [deg]
dec_nom	56.792396677863	Nominal Dec [deg]
roll_nom	31.859860229231	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4772.7395855188	Sum of GTIs [s]
liveltime	4710.3802291943	Livetime [s]
ontime0	4769.4755051732	Sum of GTIs [s]
ontime1	4772.6575055122	Sum of GTIs [s]
ontime2	4772.6985455155	Sum of GTIs [s]
ontime3	4772.7395855188	Sum of GTIs [s]
ontime6	4772.5754255056	Sum of GTIs [s]
l2events	15297	Number of level 2 events



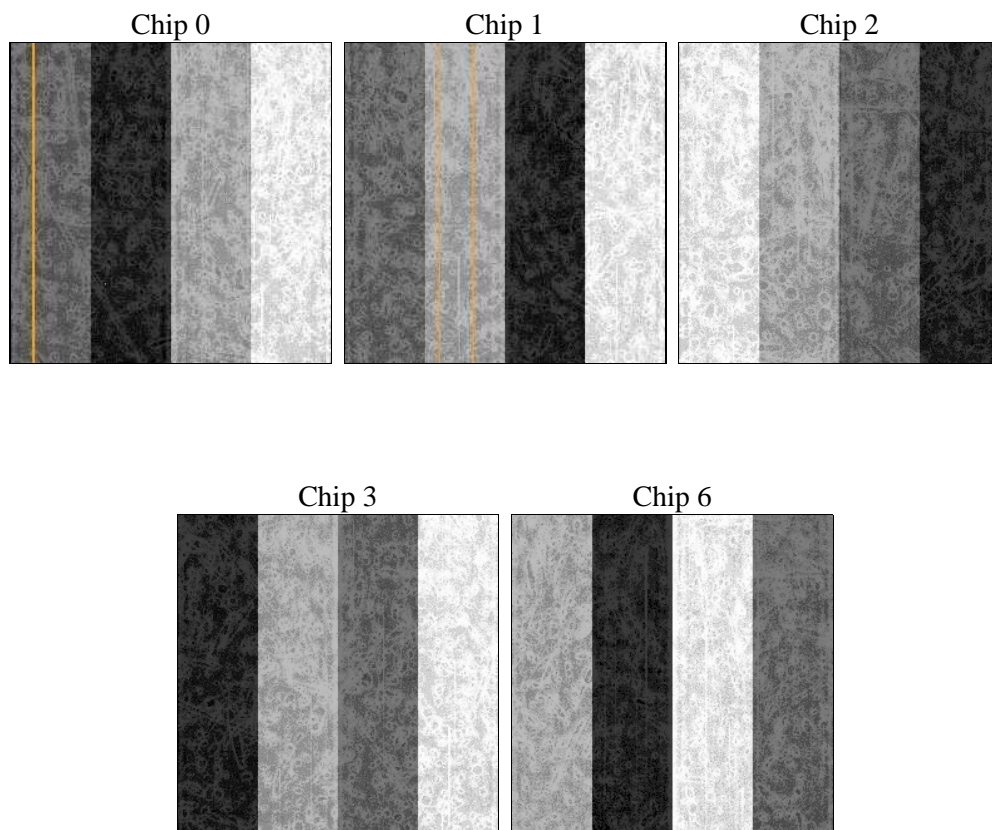
## 2 OBI

### 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	8.4.3.1	Processing system revision	ontime	4772.7395855188	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	4769.4755051732	Sum of GTIs [s]
date	2012-04-11T14:47:13	Date and time of file creation	ontime1	4772.6575055122	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4772.6985455155	Sum of GTIs [s]
			ontime3	4772.7395855188	Sum of GTIs [s]
			ontime6	4772.5754255056	Sum of GTIs [s]
			l1events	182108	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	34186	34422	38601	38037	36862
rejected events	30570	30267	35032	34727	33081
rejected %	89%	87%	90%	91%	89%

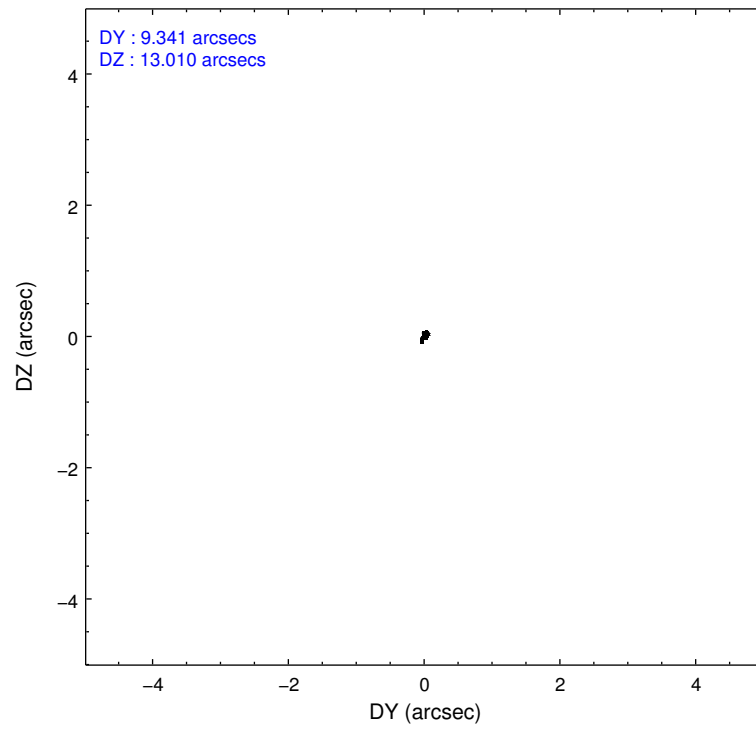
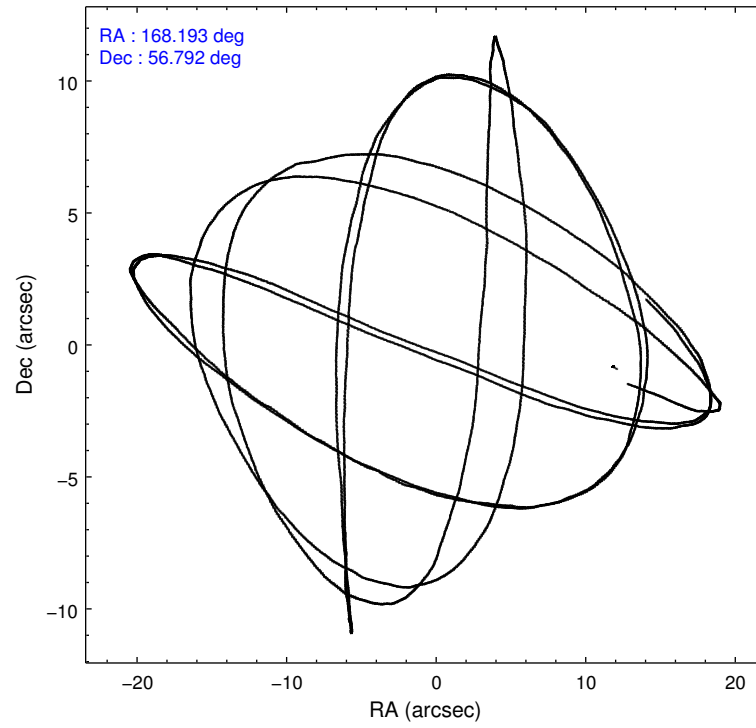
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1248	1533	1254	1079	1344
	3%	4%	3%	2%	3%
grade 1 events	14	18	22	11	19
	0%	0%	0%	0%	0%
grade 2 events	855	896	824	734	797
	2%	2%	2%	1%	2%
grade 3 events	413	468	402	392	422
	1%	1%	1%	1%	1%
grade 4 events	410	457	417	393	416
	1%	1%	1%	1%	1%
grade 5 events	1262	1424	1178	1411	1485
	3%	4%	3%	3%	4%
grade 6 events	697	810	675	720	803
	2%	2%	1%	1%	2%
grade 7 events	29287	28816	33829	33297	31576
	85%	83%	87%	87%	85%

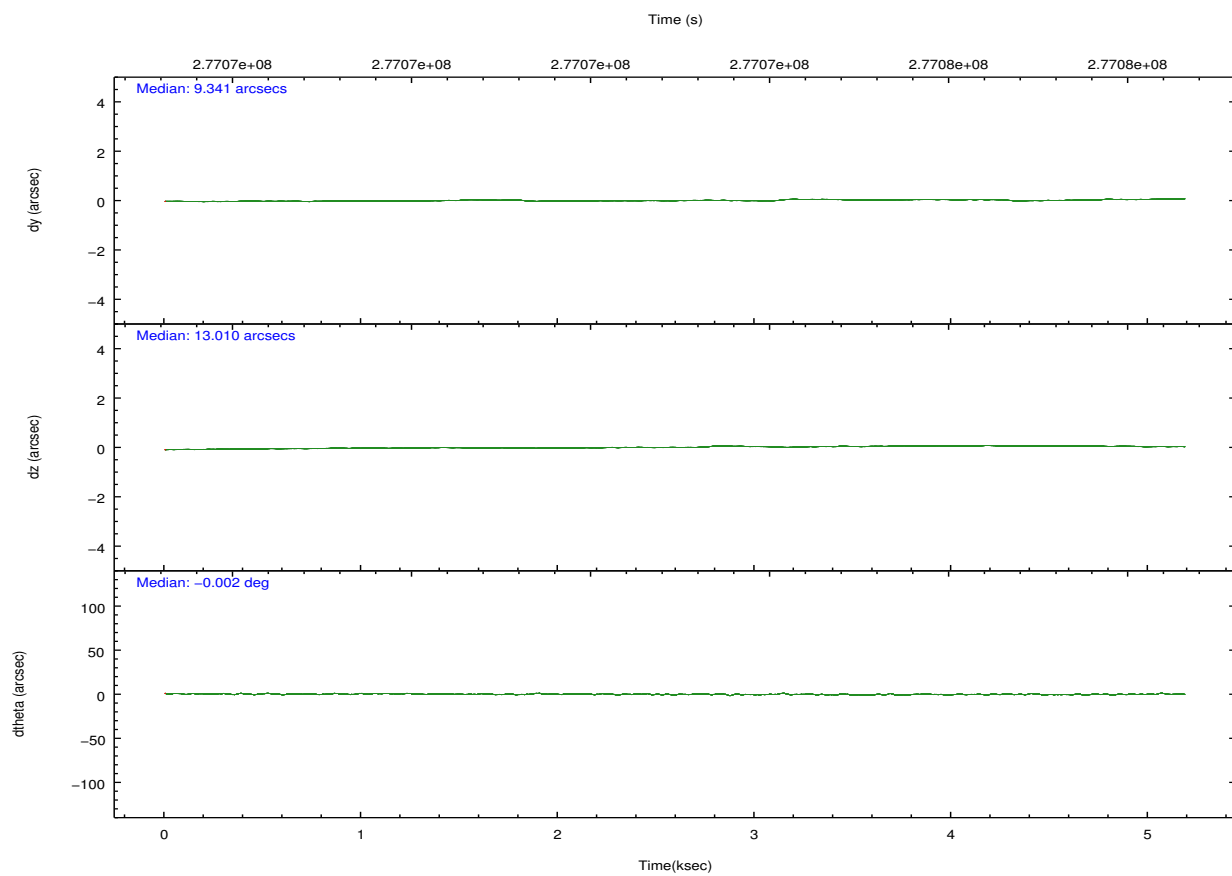
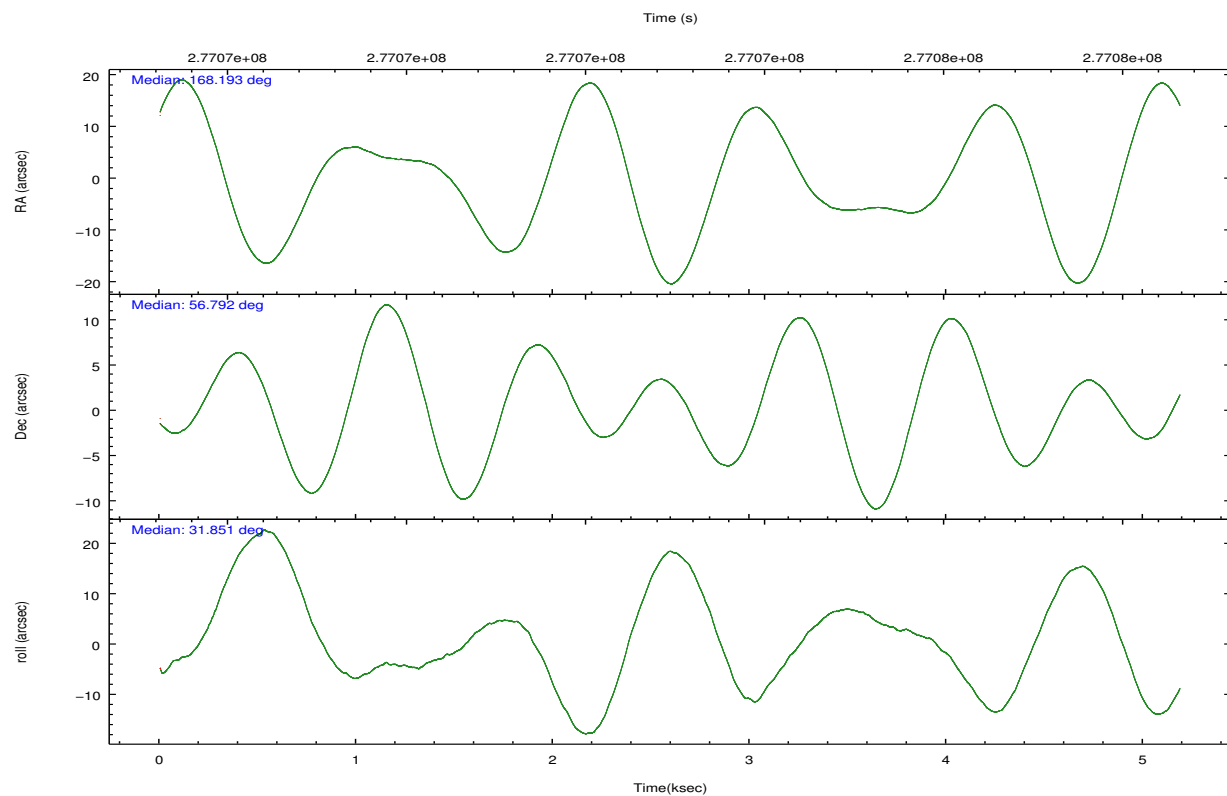


## 2.2 Compared Parameters

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	168.168979	168.1925781015612	Subarray requested	NONE	NONE
[deg] Pointing Dec	56.768222	56.79239667786277	Alternating exposures requested	N	N
[deg] Pointing Roll	31.670932	31.859860229231	[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	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	277071071.184000	277070695.71535			
Observation start date	2006-10-12T20:10:06	2006-10-12T20:04:55			
[s] Observation end time (MET)	277076071.184000	277076951.29064			
Observation end date	2006-10-12T21:33:26	2006-10-12T21:49:11			
Read mode	TIMED	TIMED			

## 2.3 Aspect



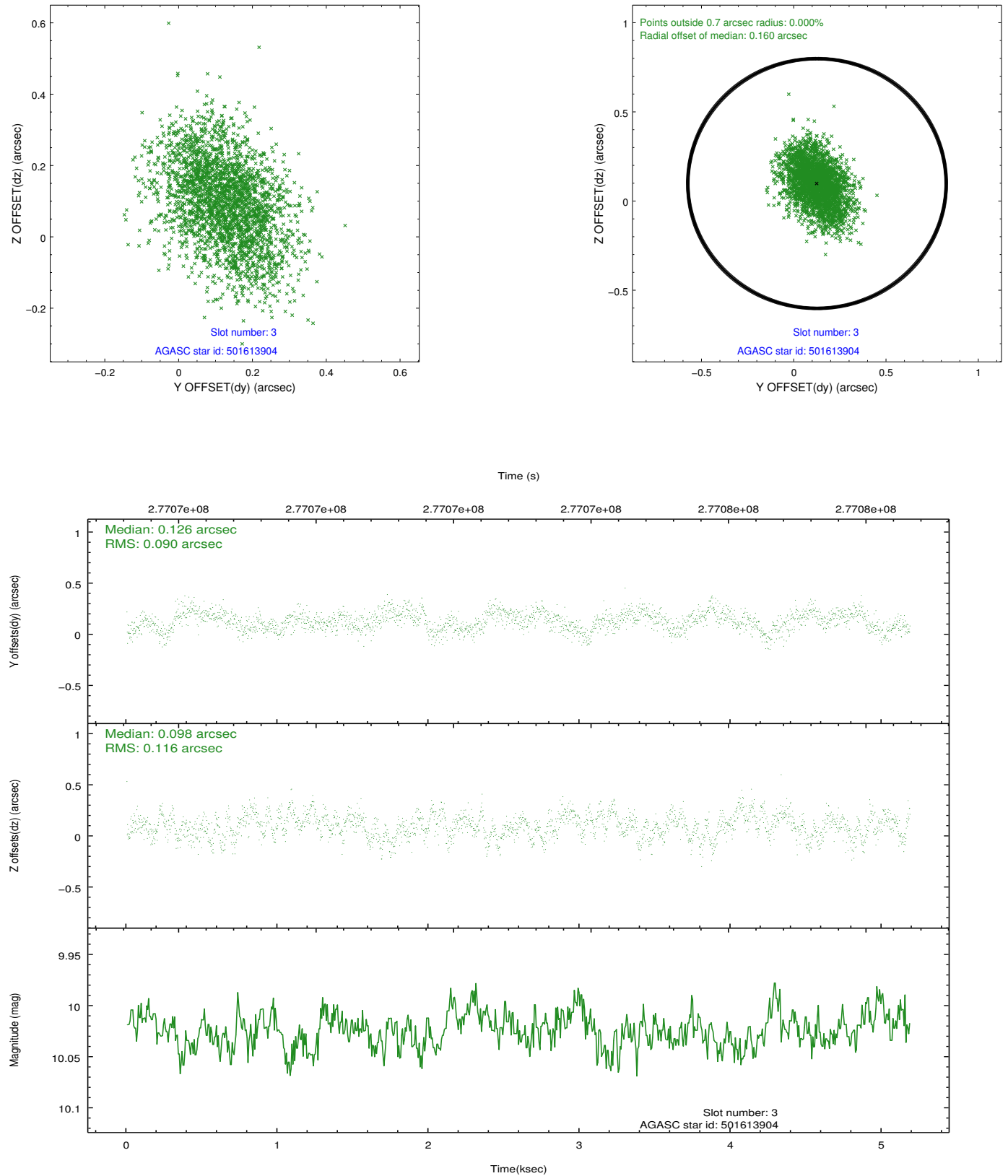


### Slot Statistics

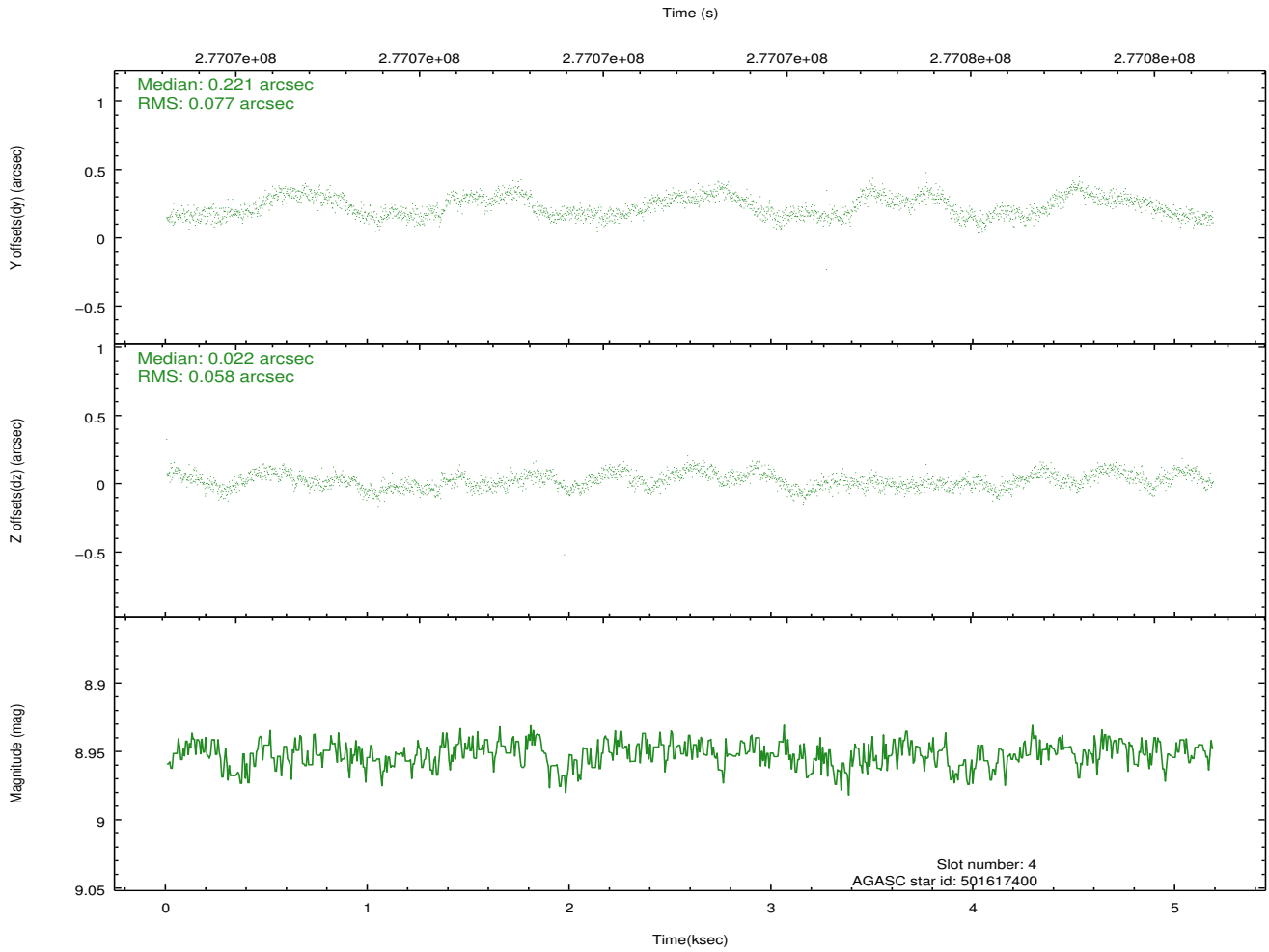
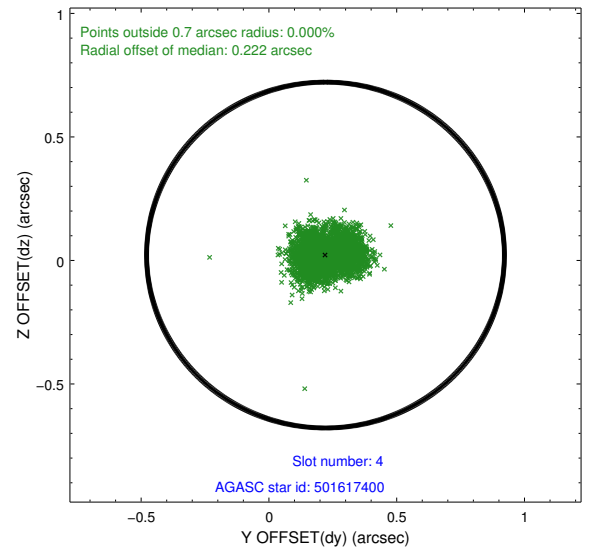
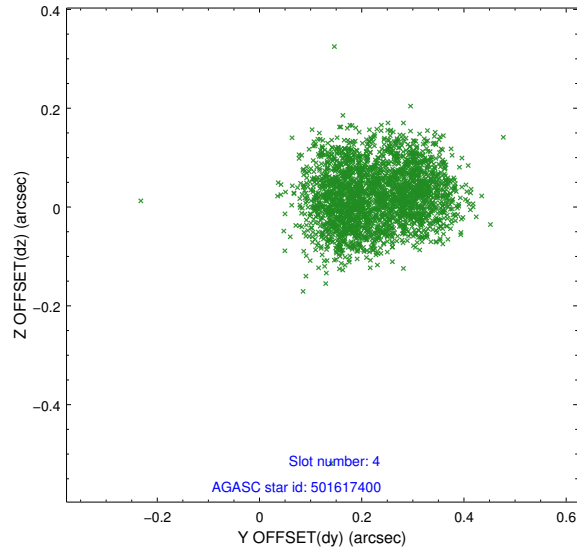
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1265	0.038	0.012	0.006	0.012	0.000000	0.000000	930.30	-836.56
1	FID	ACIS-I-5	7.23	1265	-0.195	0.053	0.006	0.010	0.000000	0.000000	-1817.38	1060.40
2	FID	ACIS-I-6	7.24	1264	0.065	0.005	0.007	0.011	0.000000	0.000000	394.62	1706.17
3	GUIDE	501613904	10.02	2526	0.126	0.098	0.156	0.254	168.615830	56.200576	-309.28	-2206.18
4	GUIDE	501617400	8.95	2530	0.221	0.022	0.105	0.154	167.619761	56.497458	-1438.26	-253.59
5	GUIDE	501620848	9.32	2526	-0.116	-0.366	0.122	0.190	167.963691	57.281851	630.28	1783.92
6	GUIDE	501745400	10.24	2513	-0.160	0.153	0.188	0.332	169.096679	56.322620	740.98	-2325.58
7	GUIDE	501747056	10.23	2525	-0.039	0.126	0.266	0.401	169.256851	56.508688	1358.23	-1915.47

## 2.4 Star Slots

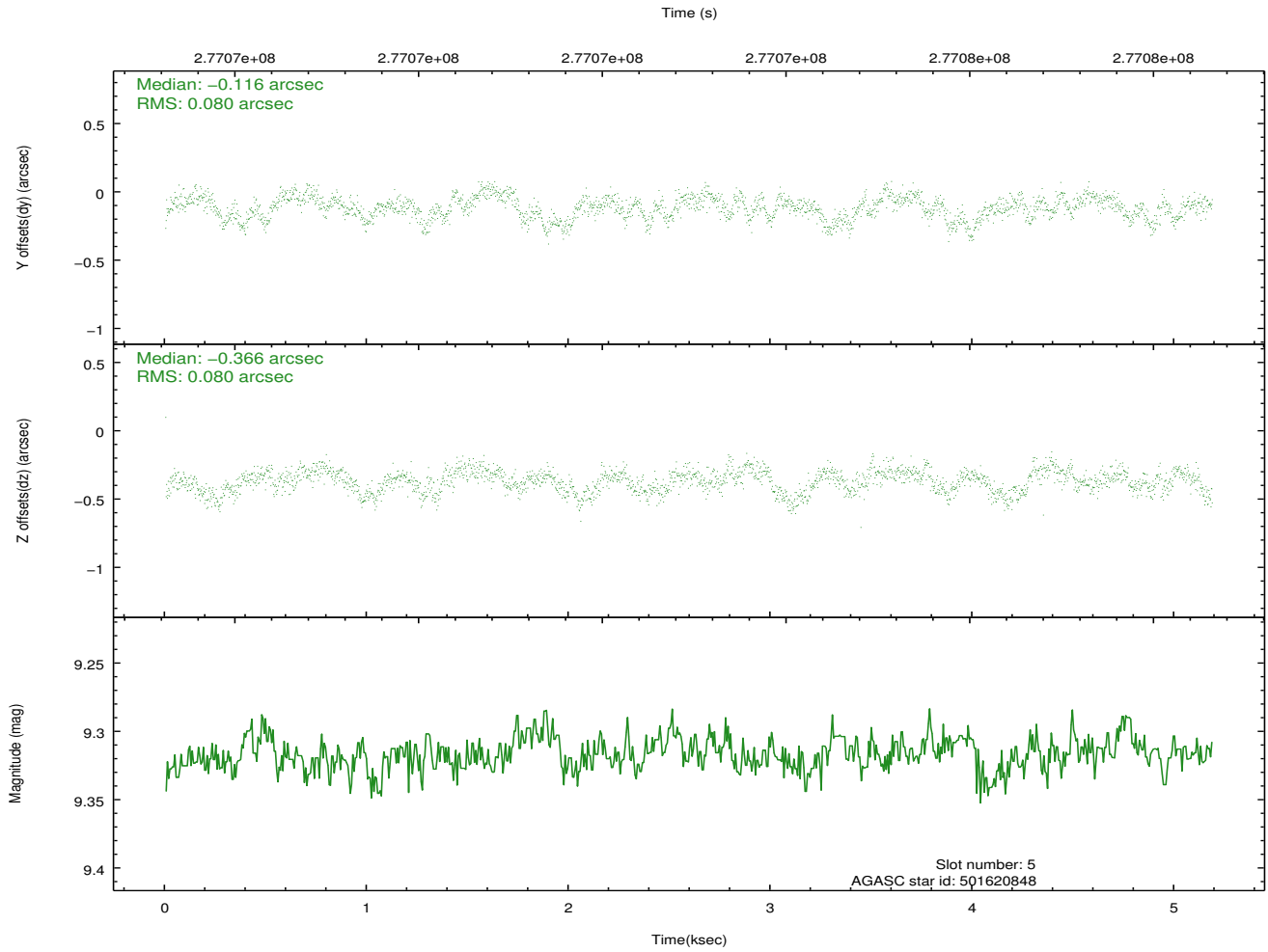
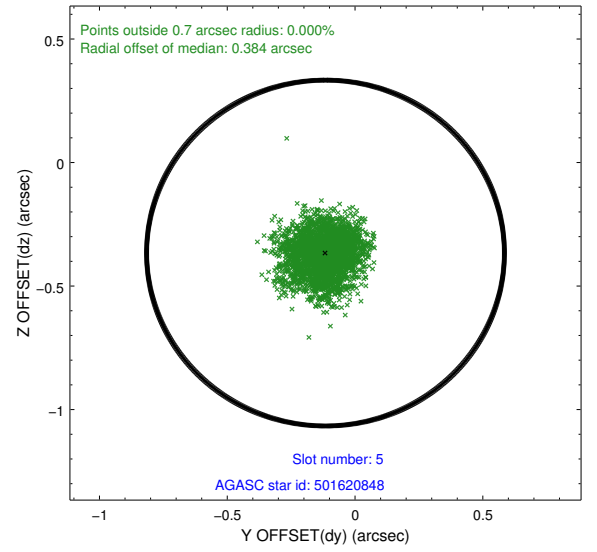
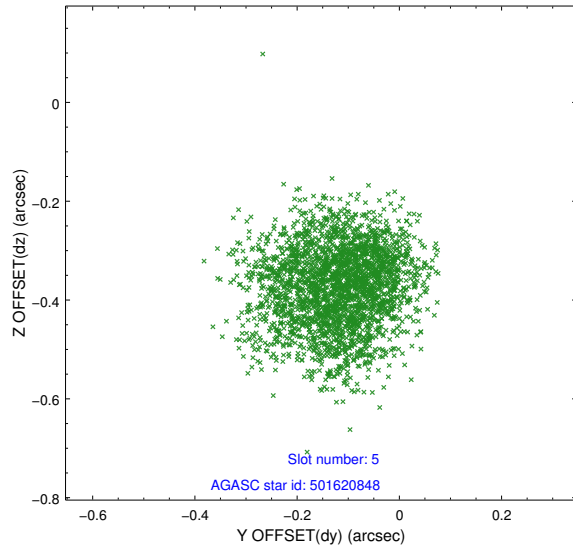
### 2.4.1 Slot 3



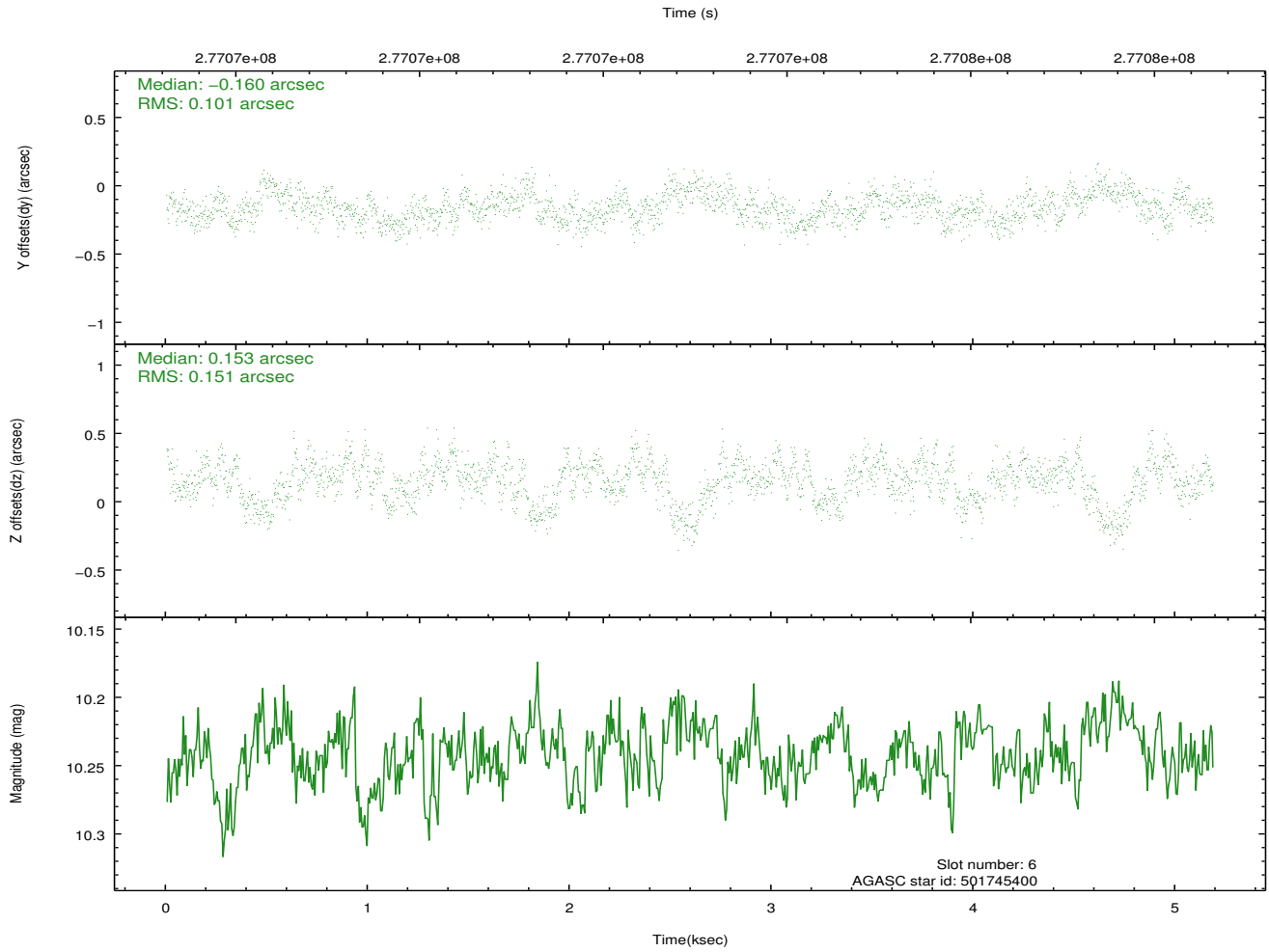
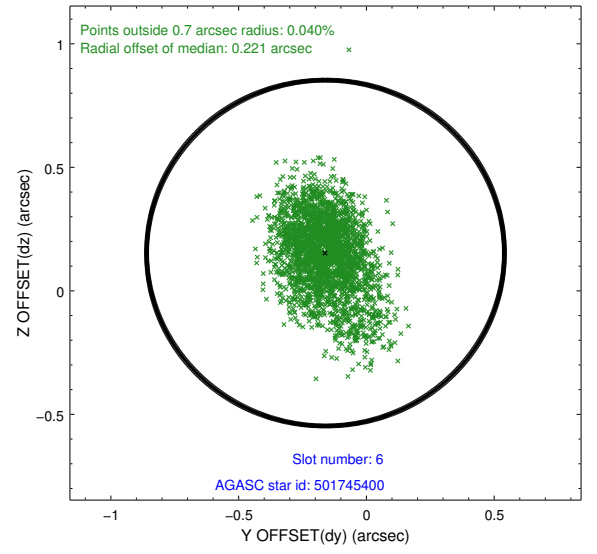
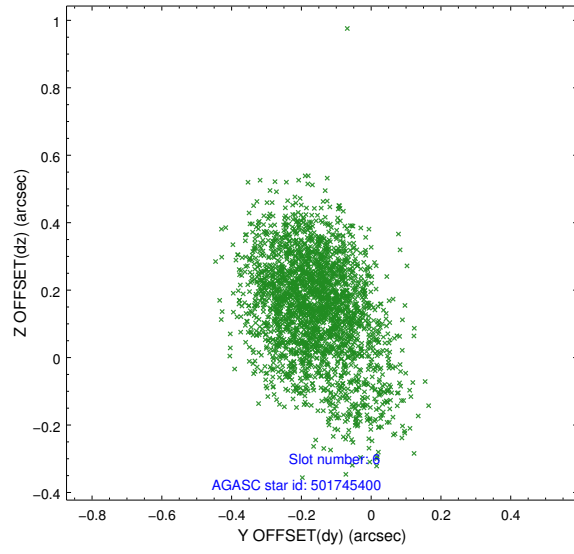
## 2.4.2 Slot 4



### 2.4.3 Slot 5

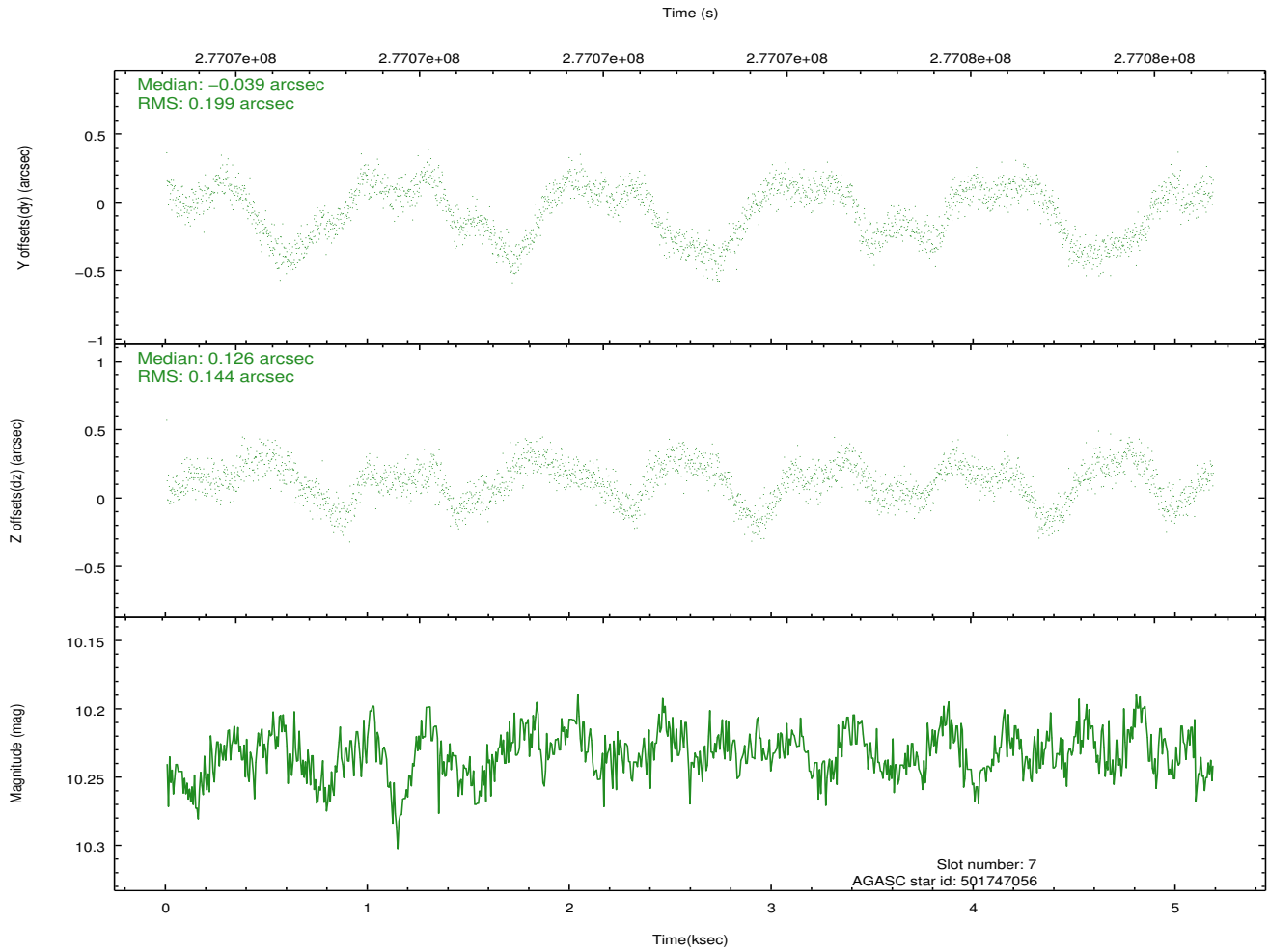
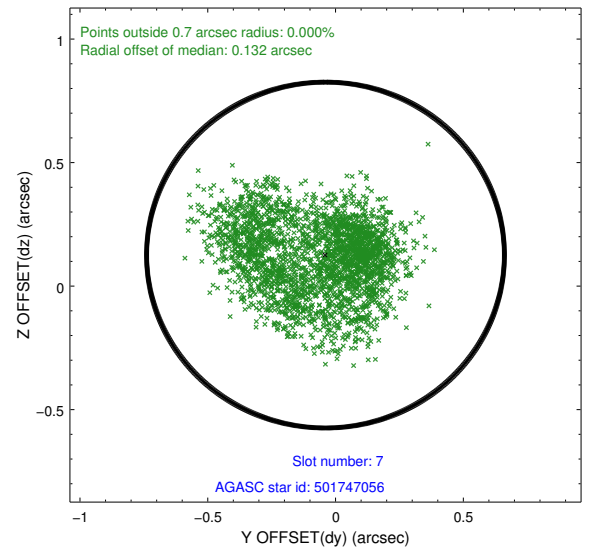
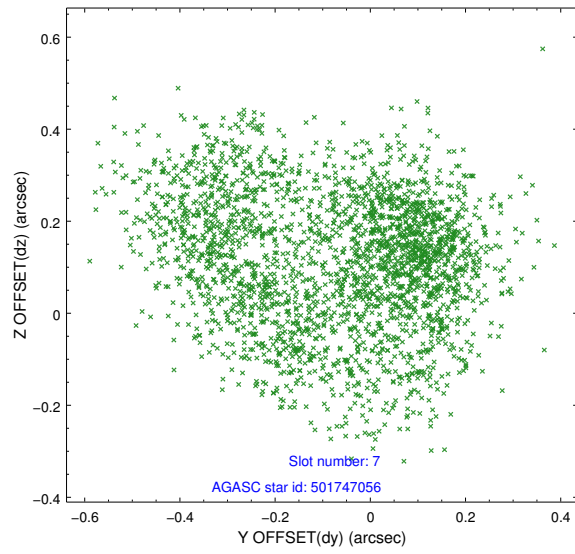


## 2.4.4 Slot 6



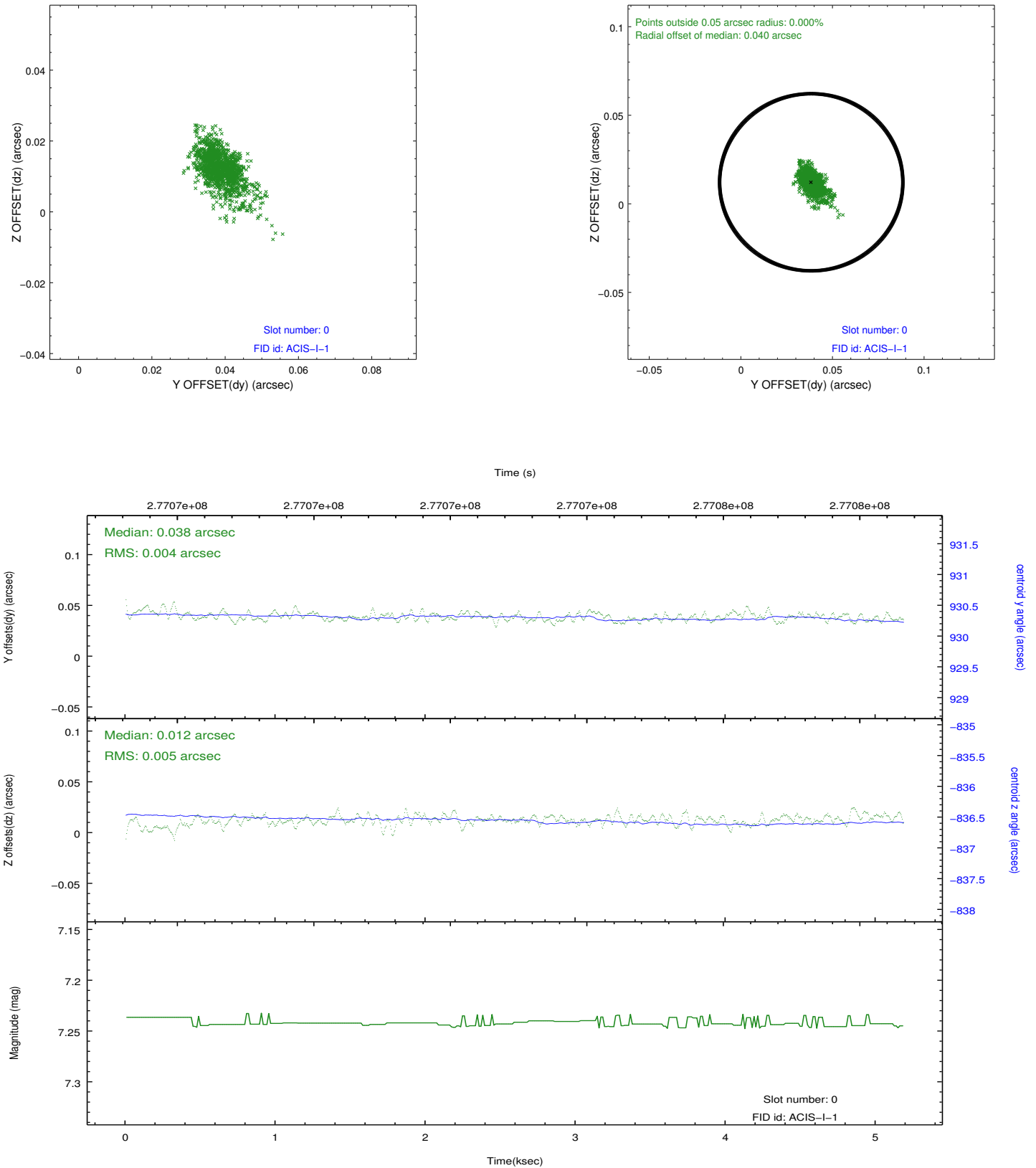


## 2.4.5 Slot 7

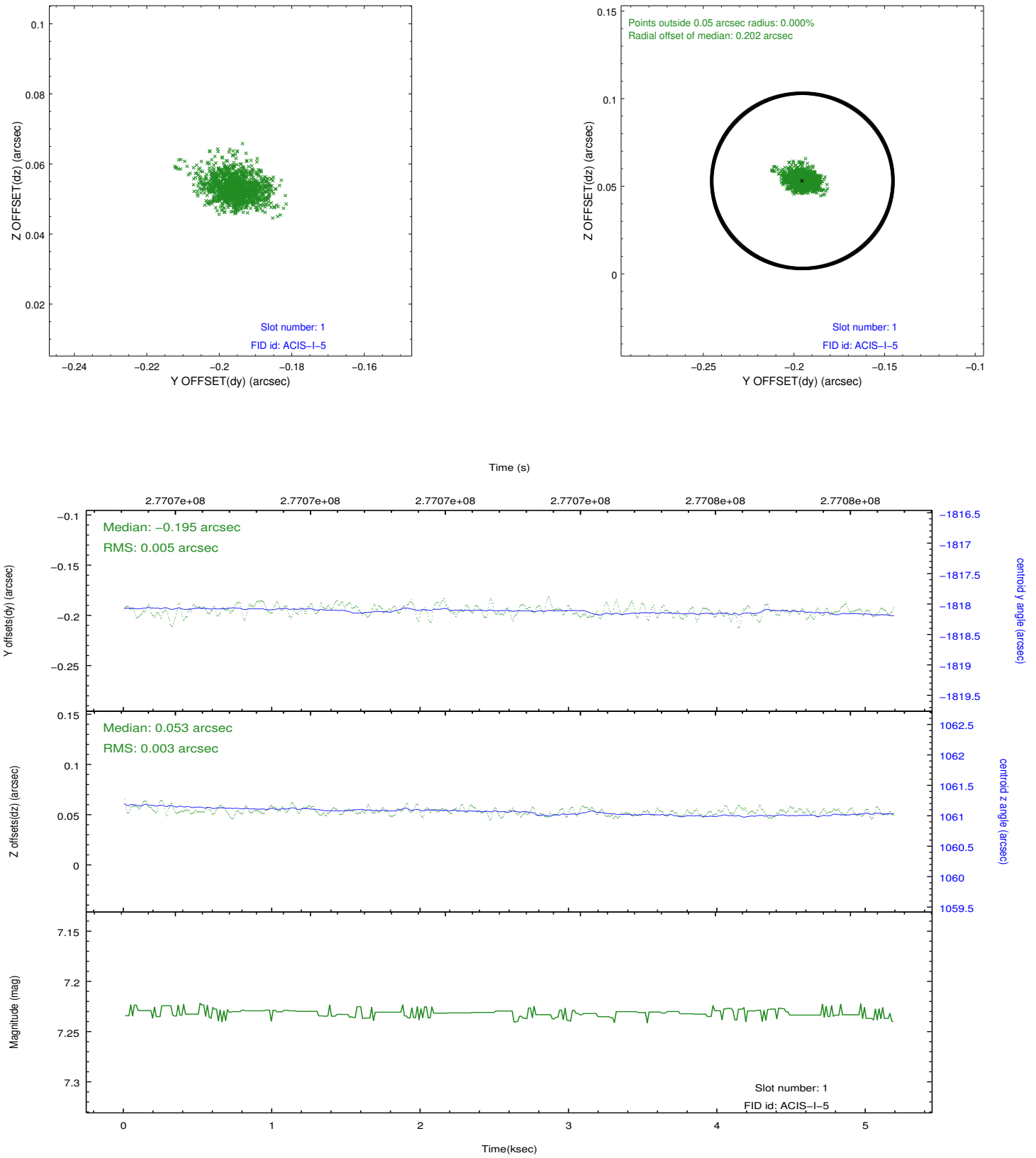


## 2.5 FID Slots

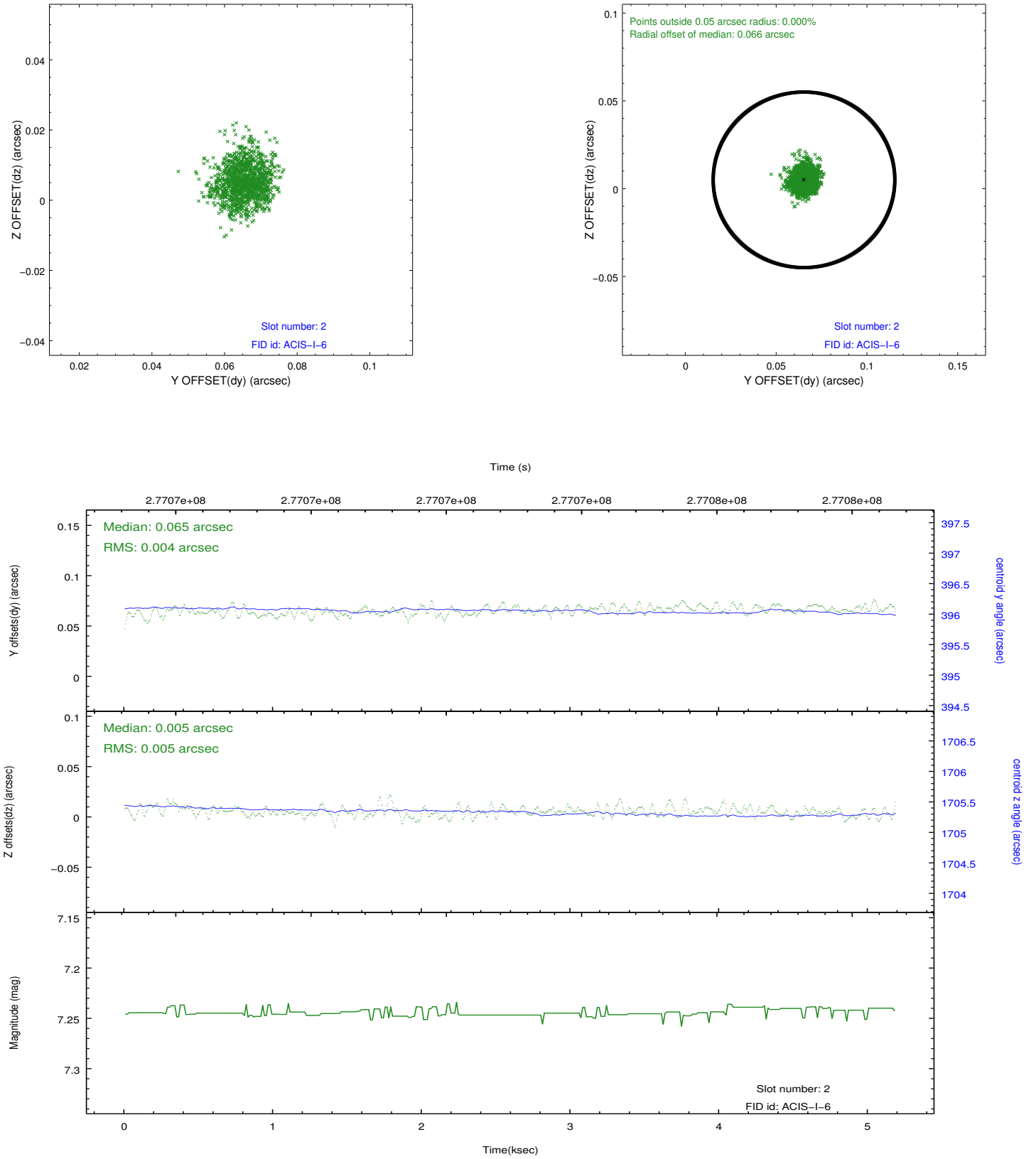
### 2.5.1 Slot 0



## 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)	2012.04.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.77400003

### A.2 Comments