

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 2858 - L2 Version 001  
Chandra X-Ray Center

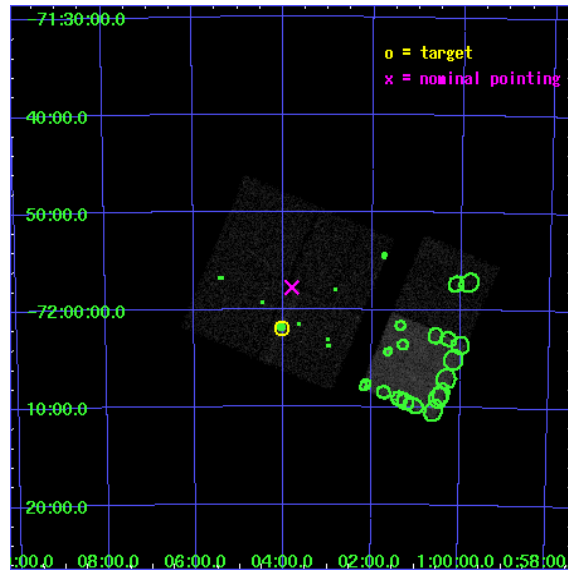
L2 Processing Date : Sep 20 2006

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# 1 Front

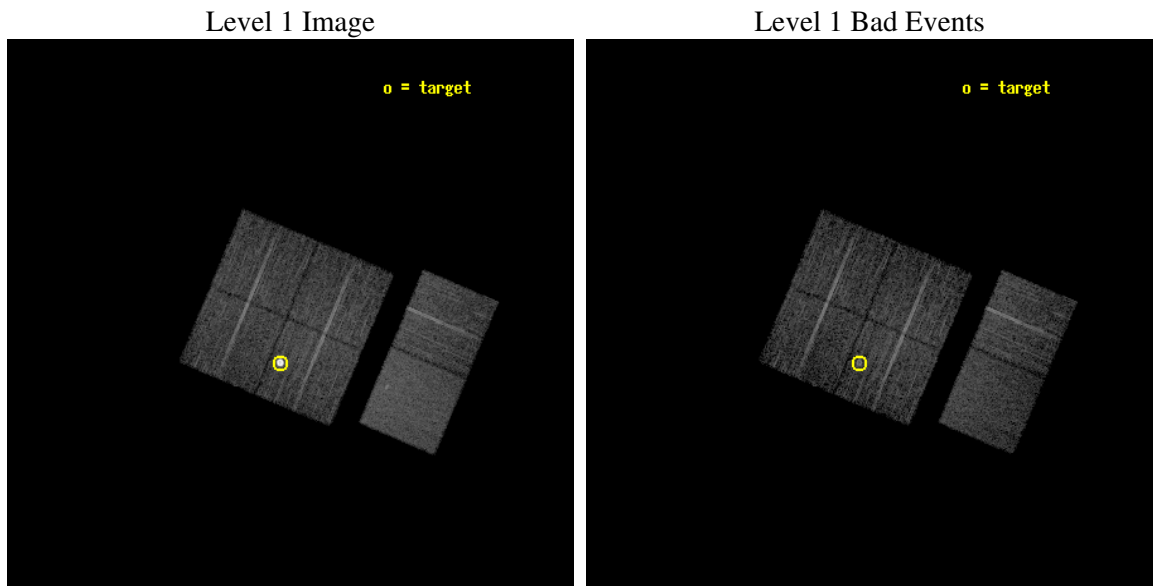
seq_num	590247
obs_id	2858
title	AO3B ACIS-I CALIBRATION OBSERVATIONS OF E0102-72
observer	Dr. CXC Calibration
object	E0102-72.3 [Chip I3, T=120, Offsets=-4,0,0]
dtcycle	0
cycle	P
ra_targ	16.01
dec_targ	-72.032028
ra_nom	15.951180548847
dec_nom	-71.962663990116
roll_nom	112.94709519344
revision	2
ontime	7654.3999714851
livetime	7557.4753501199
ontime0	7654.3999714851
ontime1	7654.3999714851
ontime2	7654.3999714851
ontime3	7654.3999714851
ontime6	7654.3999714851
ontime7	7654.3999714851
l2events	76602



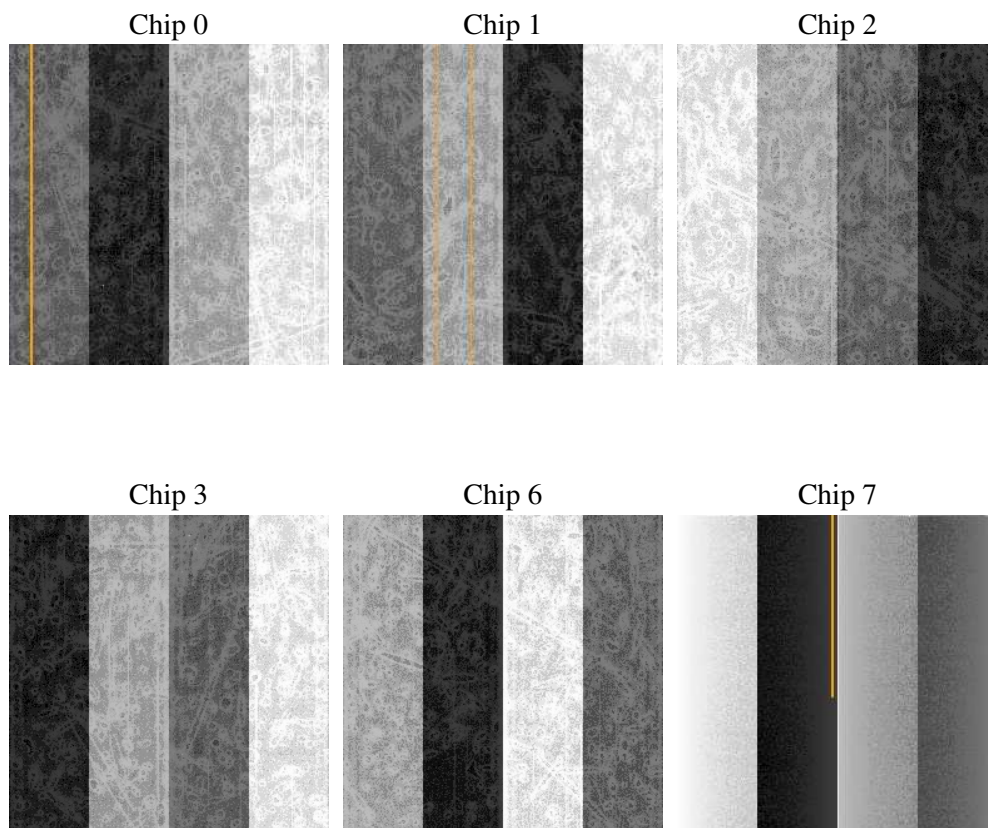
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.3
date	2006-09-20T22:30:34
revision	2

sched_exp_time	7900.000000
ontime	7661.7256536782
ontime0	7664.9666637778
ontime1	7661.7256237864
ontime2	7661.7256237864
ontime3	7661.7256536782
ontime6	7661.7256237864
ontime7	7661.7256536782
l1events	337153

### 2.1.4 Events

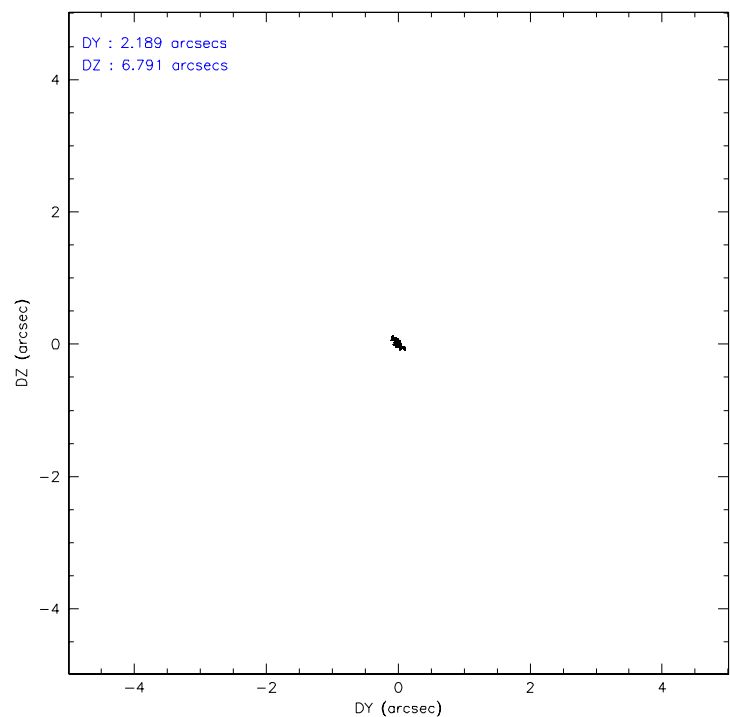
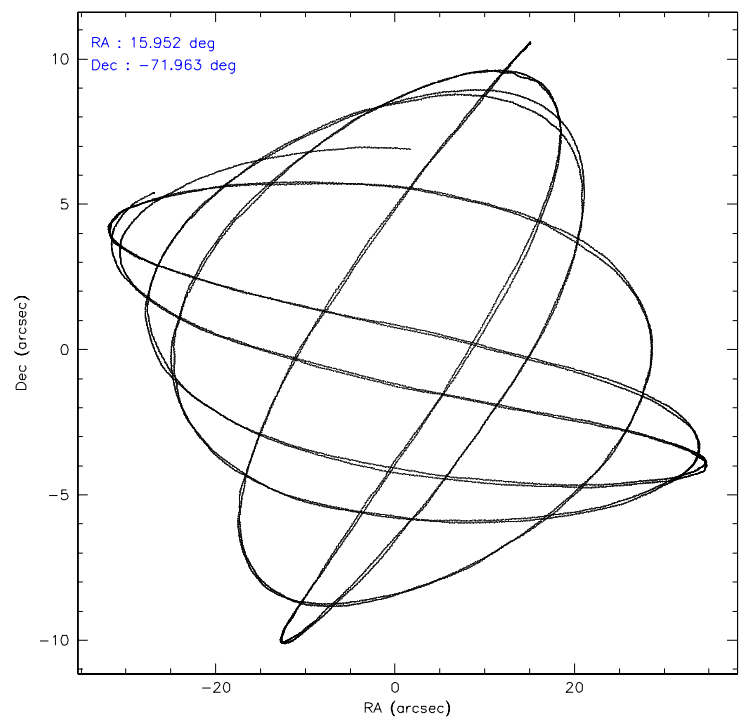
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	46704	45340	49198	77308	52790	65813
rejected events	40803	39083	43384	45366	46813	40156
rejected %	87%	86%	88%	58%	88%	61%

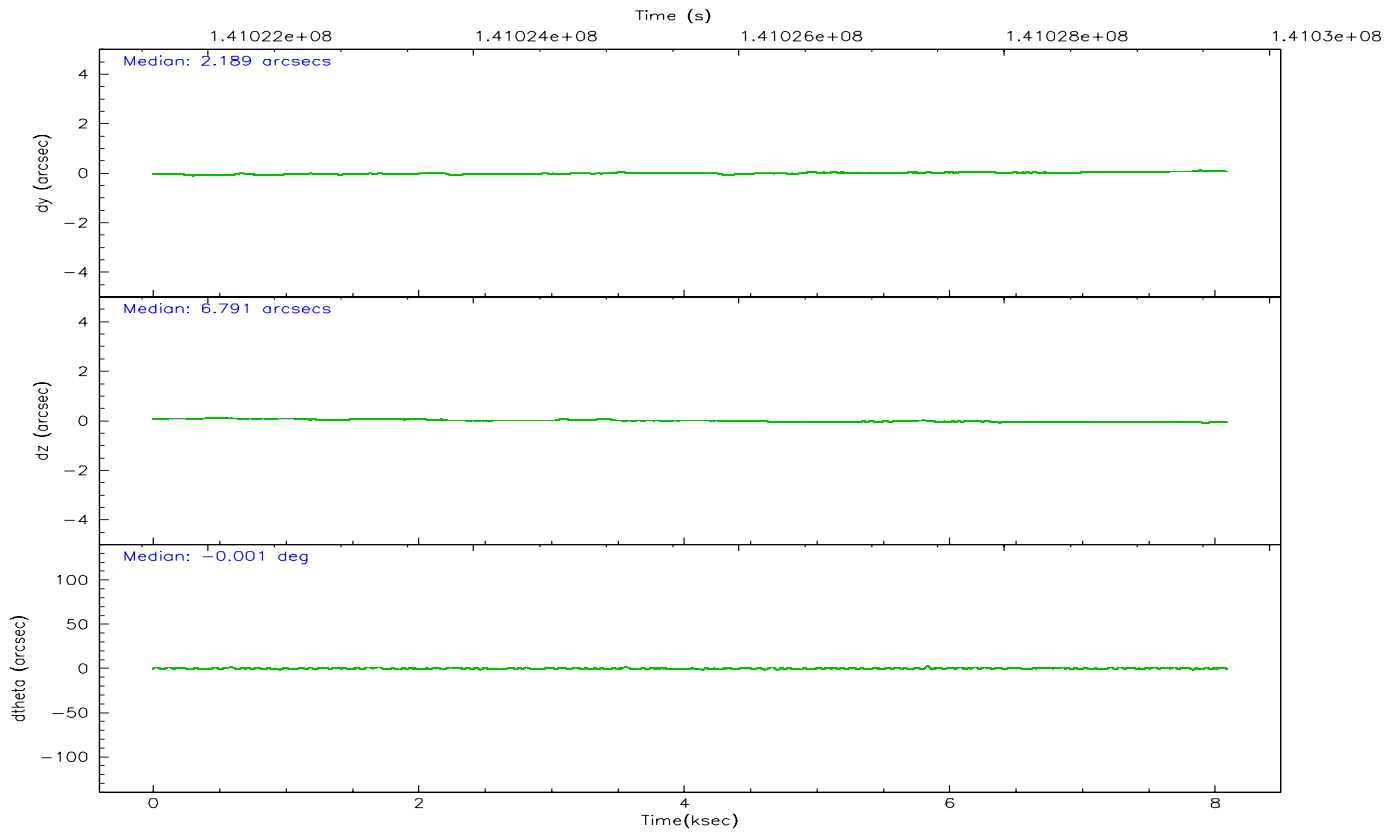
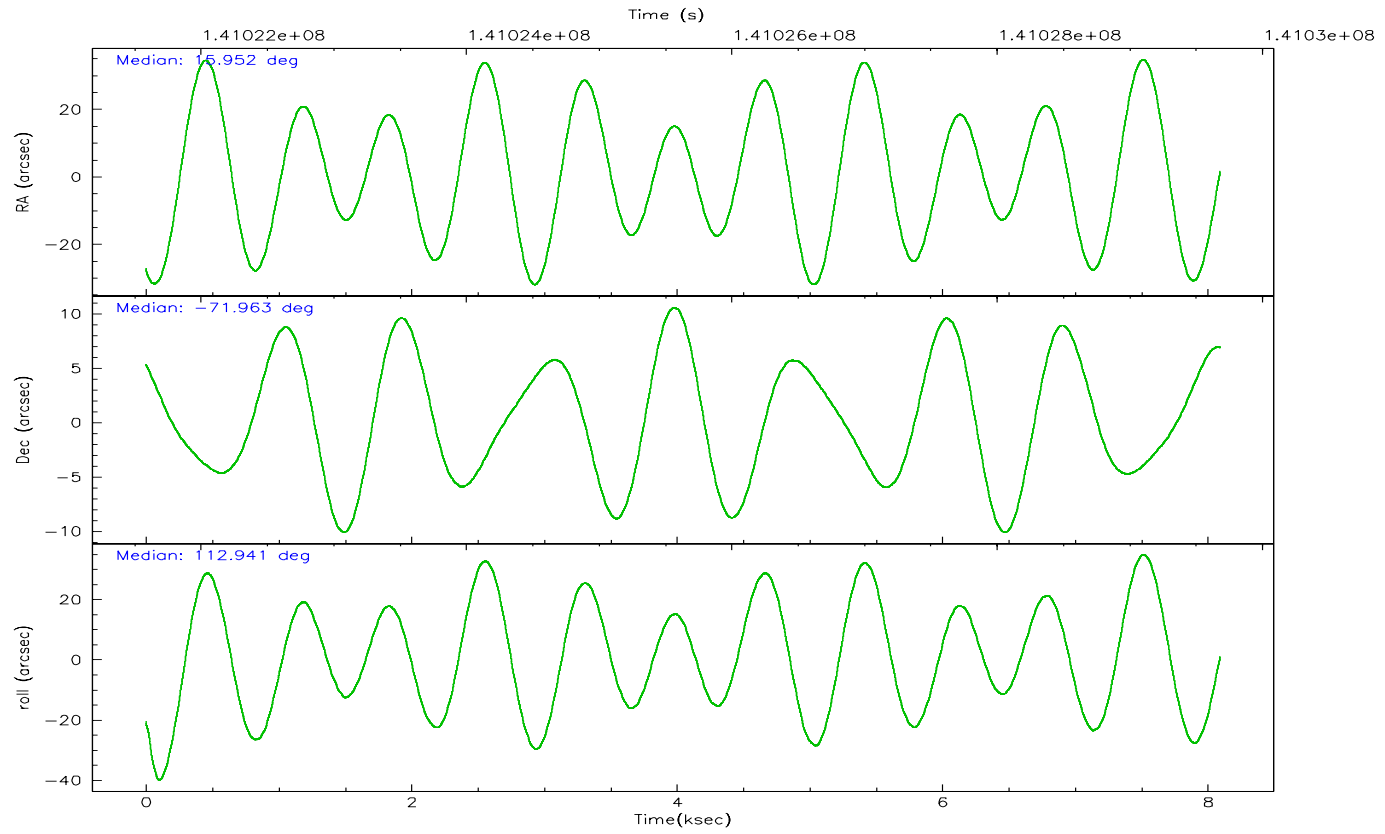
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2464	2587	2563	25706	2377	1788
	5%	5%	5%	33%	4%	2%
grade 1 events	21	26	25	260	15	35
	0%	0%	0%	0%	0%	0%
grade 2 events	1239	1256	1206	3012	1199	6298
	2%	2%	2%	3%	2%	9%
grade 3 events	581	594	530	992	602	1360
	1%	1%	1%	1%	1%	2%
grade 4 events	605	610	517	1022	609	1350
	1%	1%	1%	1%	1%	2%
grade 5 events	1823	1968	1727	2045	2301	4392
	3%	4%	3%	2%	4%	6%
grade 6 events	1016	1218	1003	1237	1193	14890
	2%	2%	2%	1%	2%	22%
grade 7 events	38955	37081	41627	43034	44494	35700
	83%	81%	84%	55%	84%	54%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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
Pointing RA	16.022246	15.9511805488467	Subarray requested	NONE	NONE
Pointing Dec	-71.979079	-71.96266399011559	Alternating exposures requested	N	N
Pointing Roll	112.805983	112.947095193435	Primary exposure time	0.000000	3.2
Window start time	139276864.184000	139276864.184000			
Window stop time	141782464.184000	141782464.184000			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	141021773.184000	141021397.26174			
Observation start date	2002-06-21T04:41:49	2002-06-21T04:36:37			
Observation end time	141029673.184000	141029807.38708			
Observation end date	2002-06-21T06:53:29	2002-06-21T06:56:47			
Read mode	TIMED	TIMED			

## 2.3 Aspect





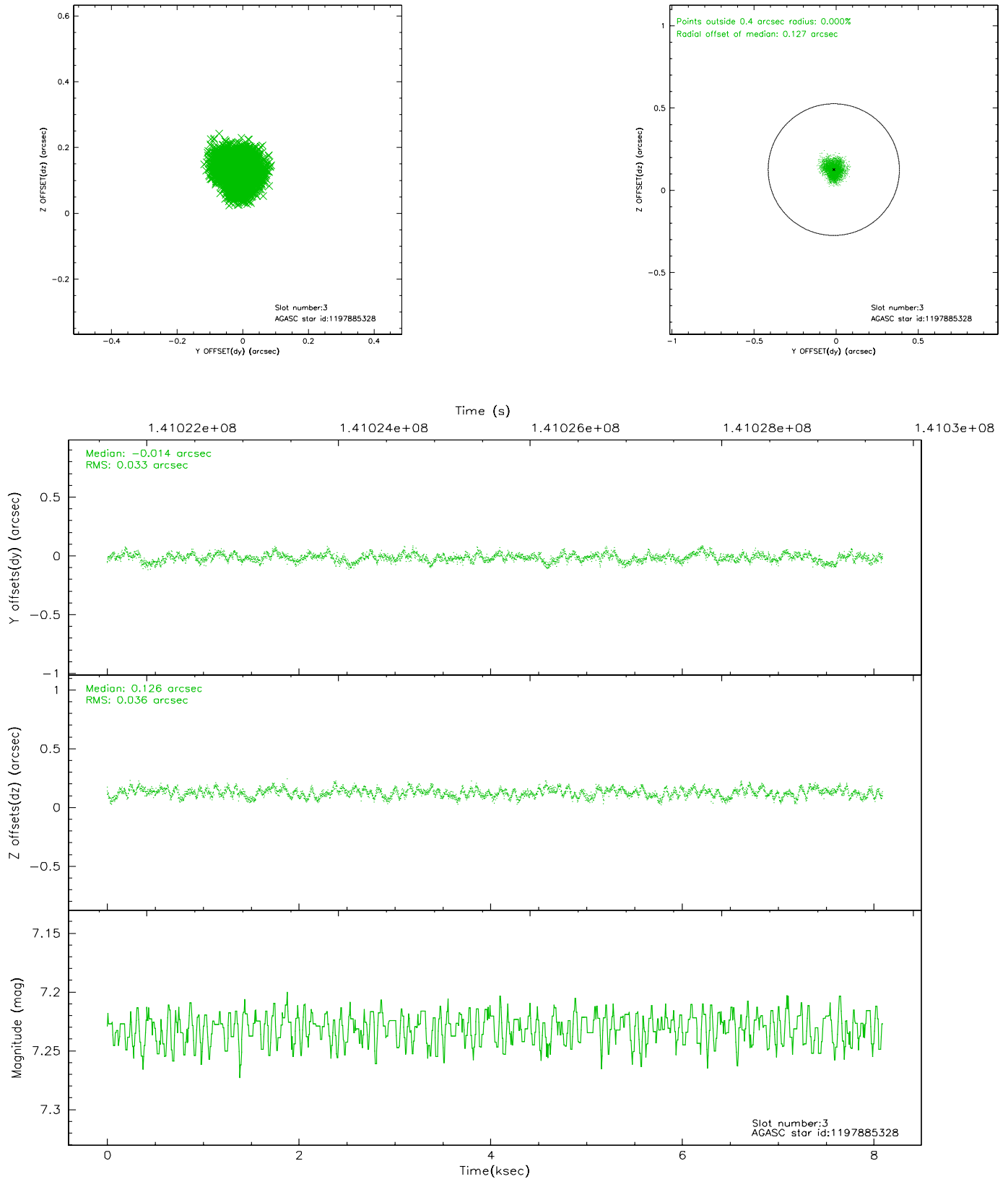
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1973	-0.045	-0.035	0.007	0.012	0.000000	0.000000	937.56	-830.24
1	FID	ACIS-I-3	7.45	1973	0.020	0.199	0.007	0.012	0.000000	0.000000	55.51	-963.64
2	FID	ACIS-I-6	7.26	1972	-0.064	-0.097	0.005	0.011	0.000000	0.000000	403.34	1711.12
3	GUIDE	1197885328	7.23	3946	-0.014	0.126	0.053	0.081	16.283090	-71.733943	699.55	-612.20
4	GUIDE	1198189696	7.36	3949	0.115	-0.064	0.063	0.095	15.223750	-72.697522	-2057.45	1793.36
5	GUIDE	1197750936	7.56	3947	-0.085	-0.133	0.056	0.084	15.387940	-71.549550	1701.95	69.85
6	GUIDE	1197884712	8.31	3948	0.026	-0.049	0.058	0.092	16.087398	-72.252690	-934.71	316.74
7	GUIDE	1197878768	9.62	3940	-0.037	0.123	0.098	0.160	16.656786	-71.304581	1951.70	-1613.37

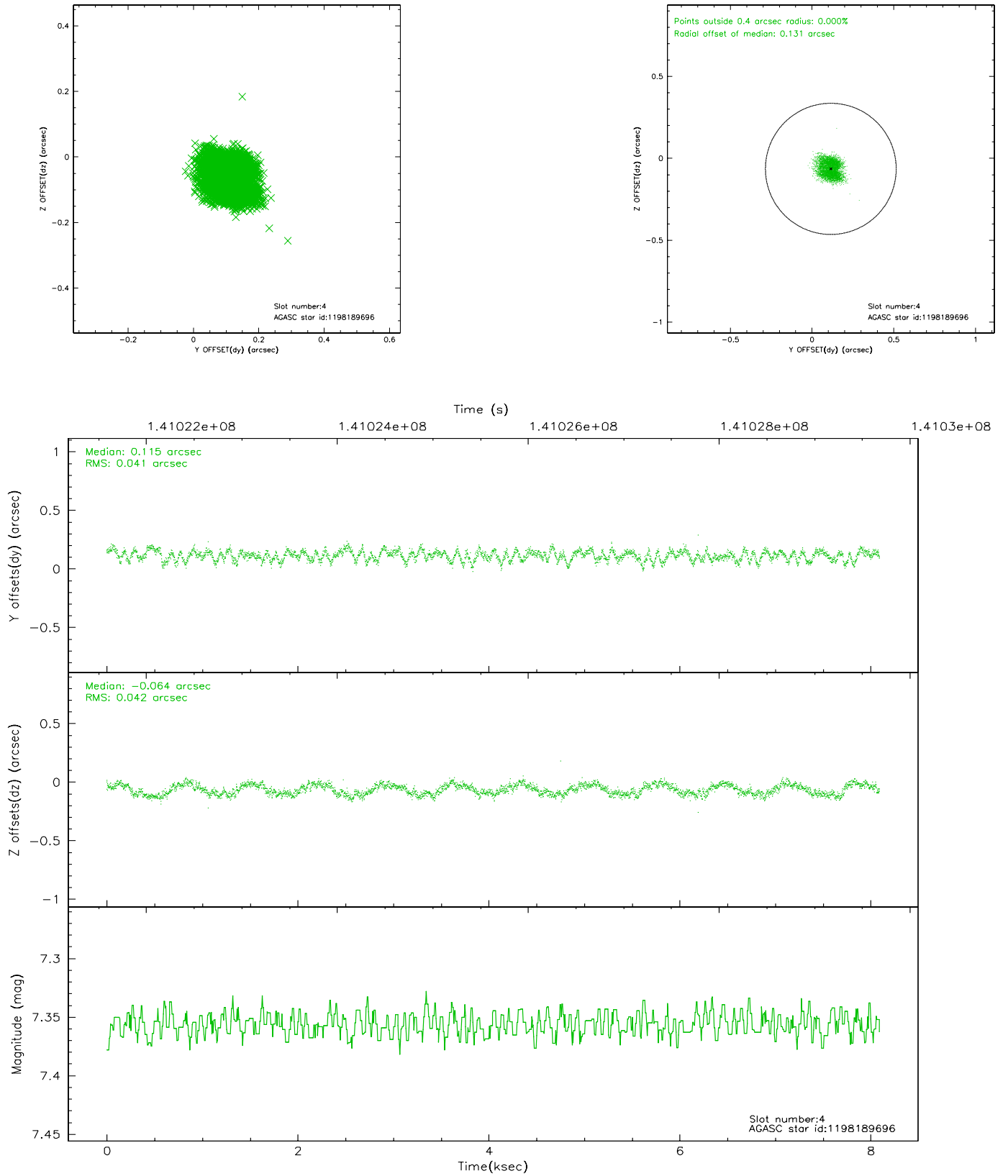


## 2.4 Star Slots

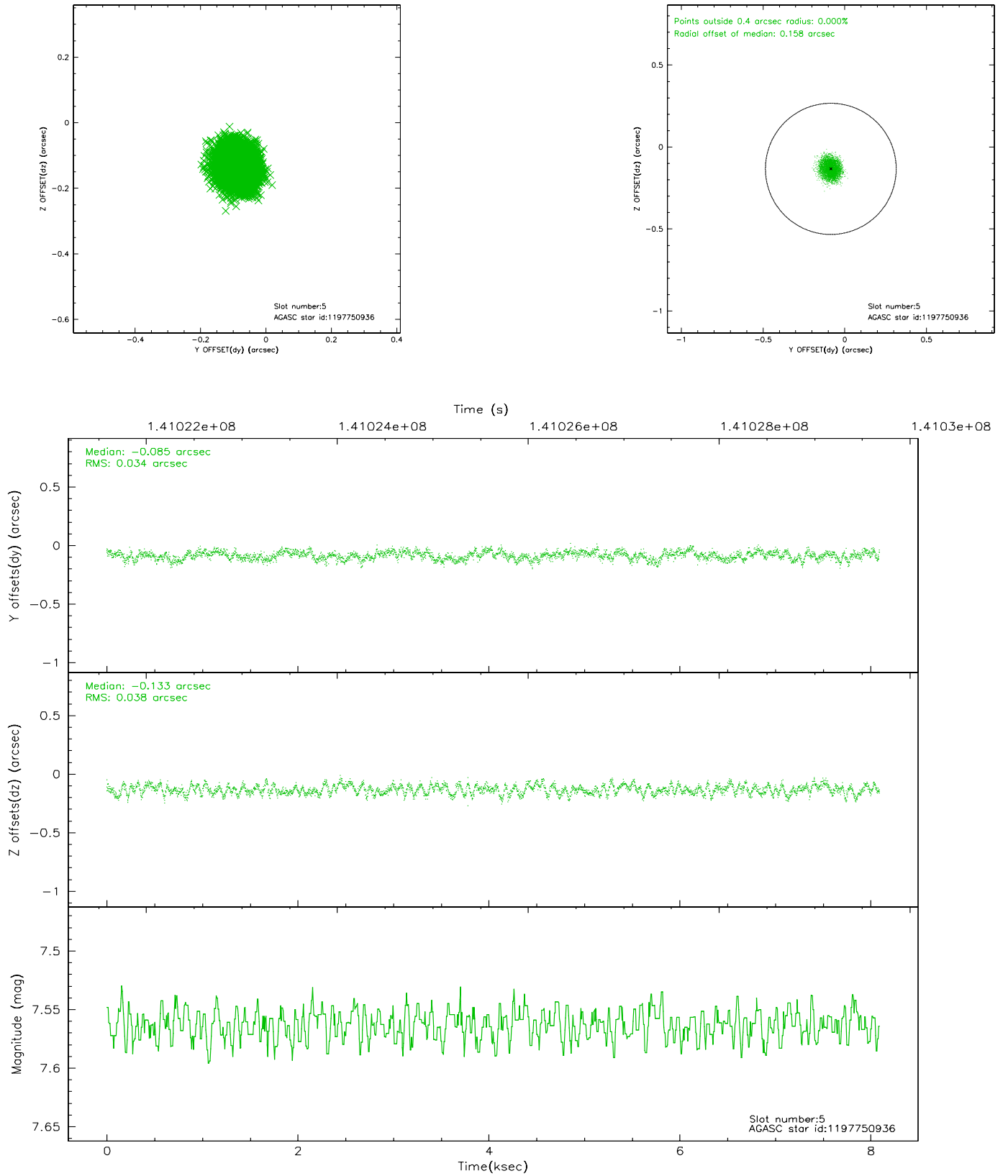
### 2.4.1 Slot 3



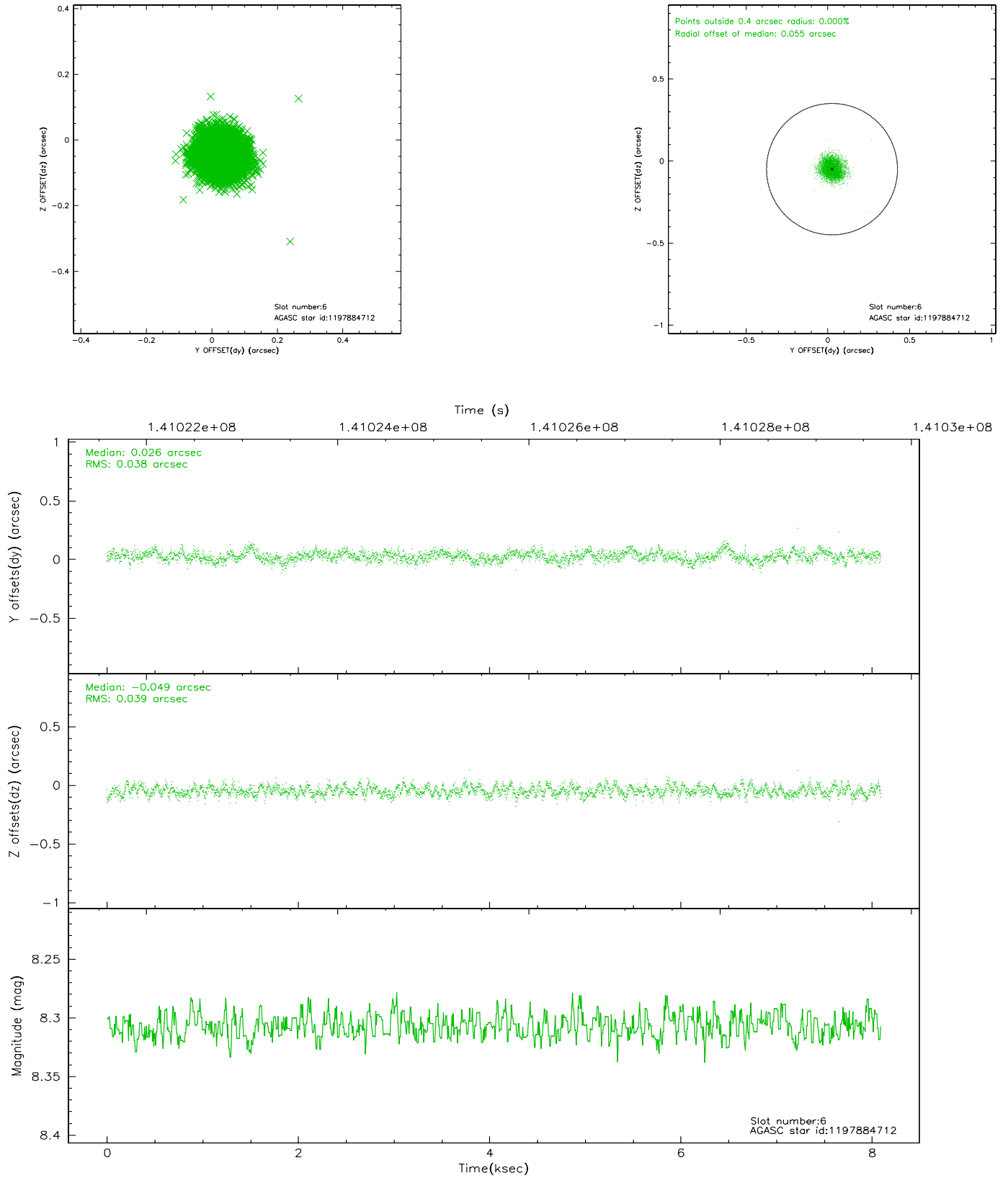
## 2.4.2 Slot 4



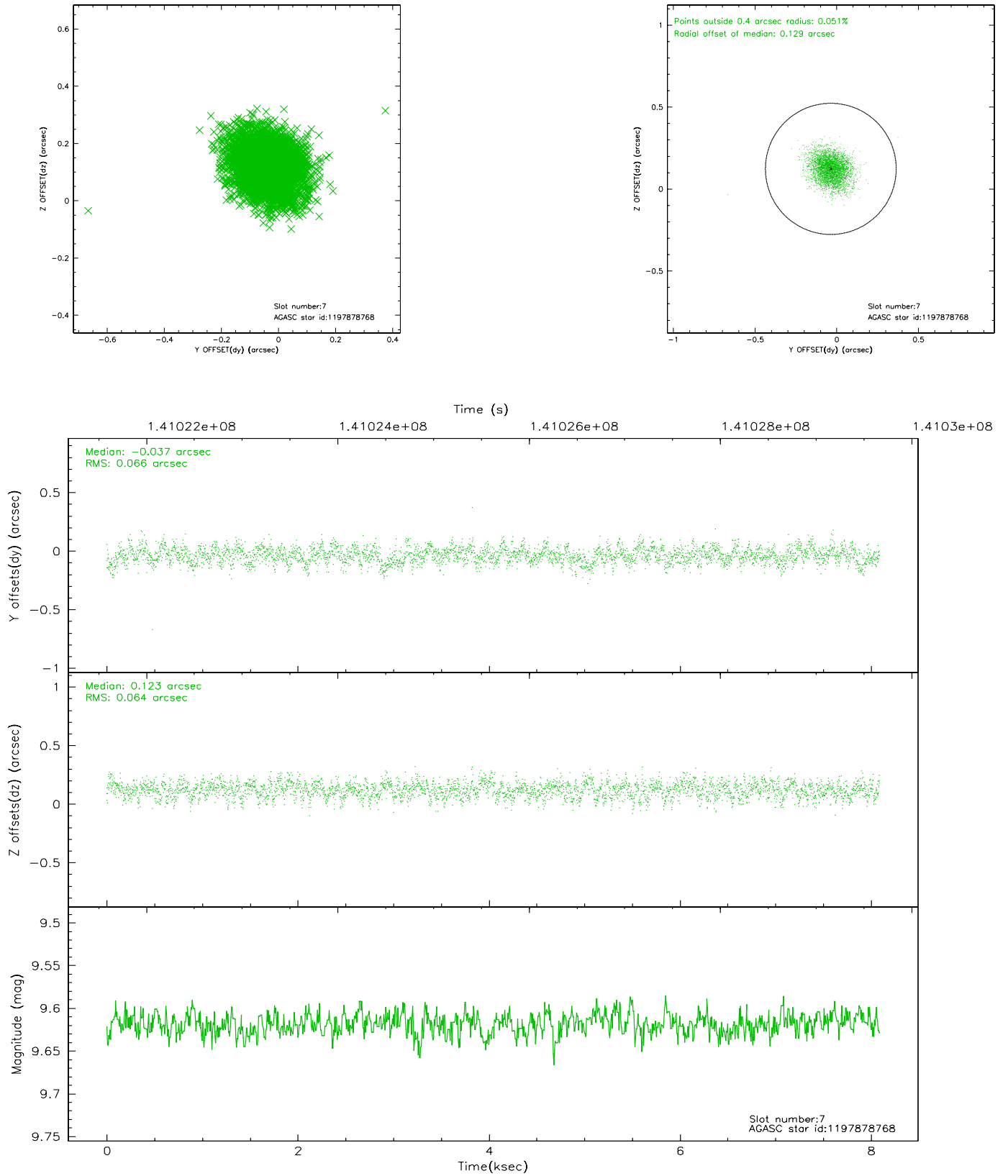
### 2.4.3 Slot 5



## 2.4.4 Slot 6

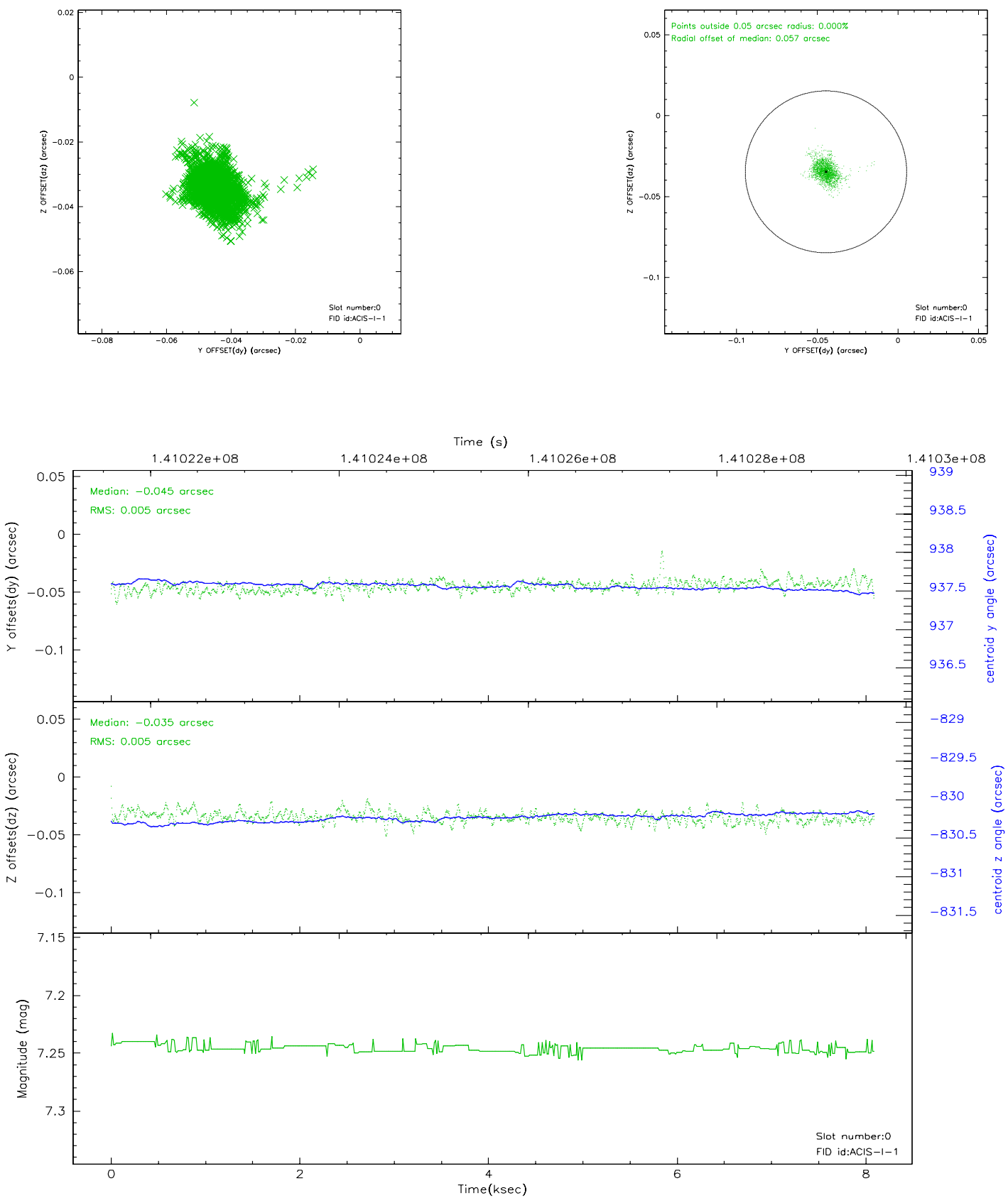


## 2.4.5 Slot 7

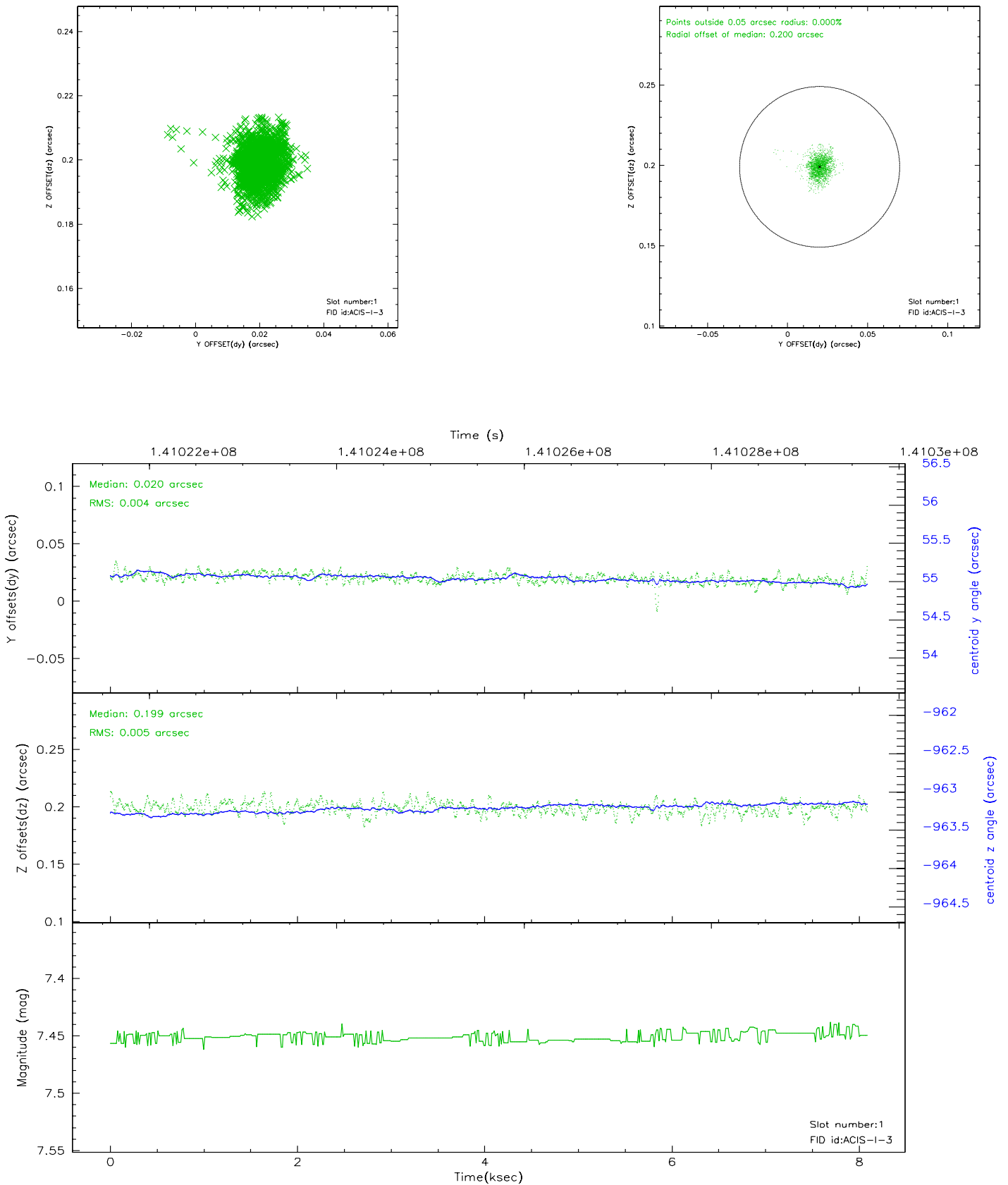


## 2.5 FID Slots

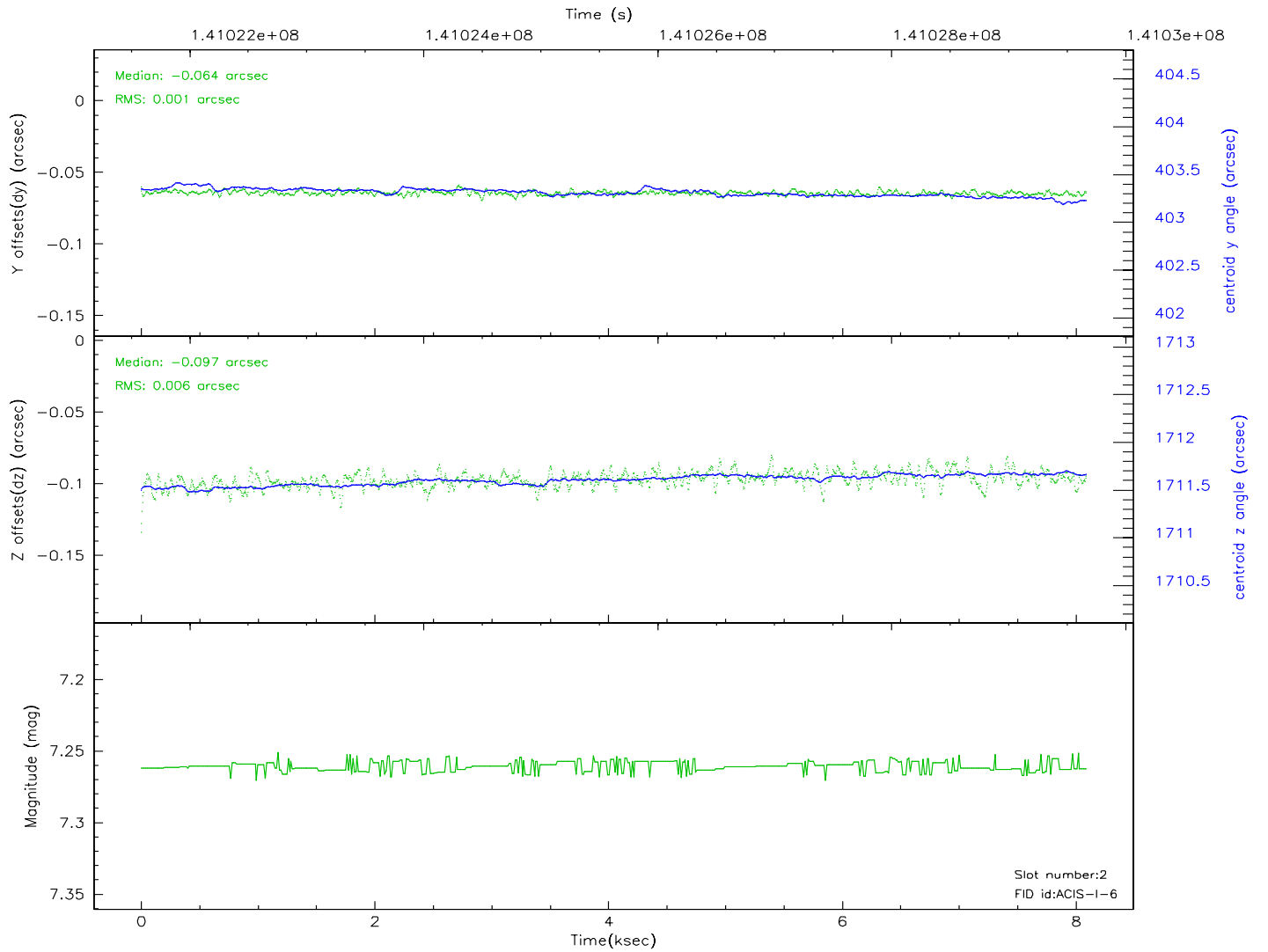
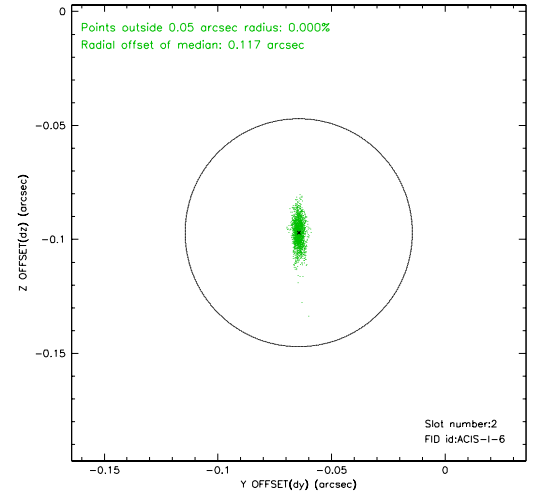
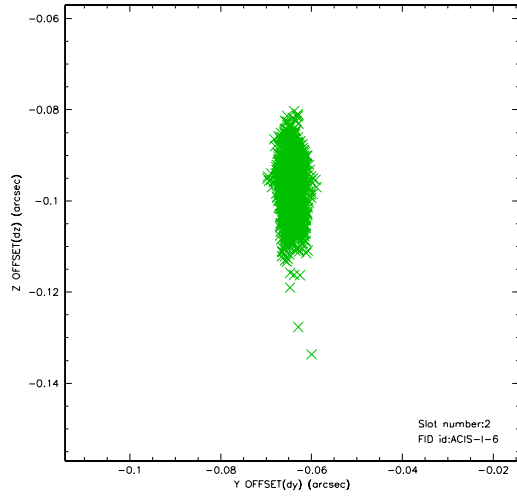
### 2.5.1 Slot 0



## 2.5.2 Slot 1

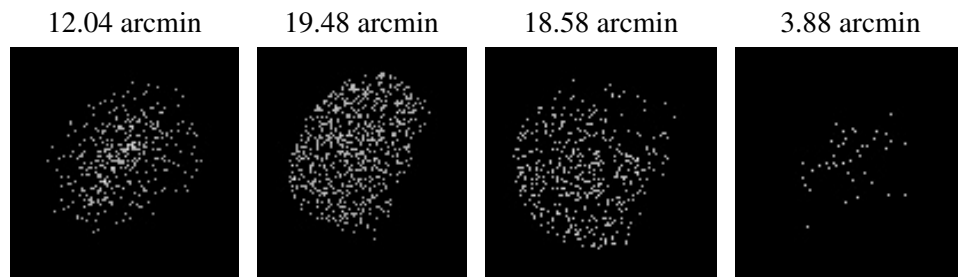


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.09.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.657

### A.2 Comments

Window constraint satisfied.