

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 6115 - L2 Version 001  
Chandra X-Ray Center

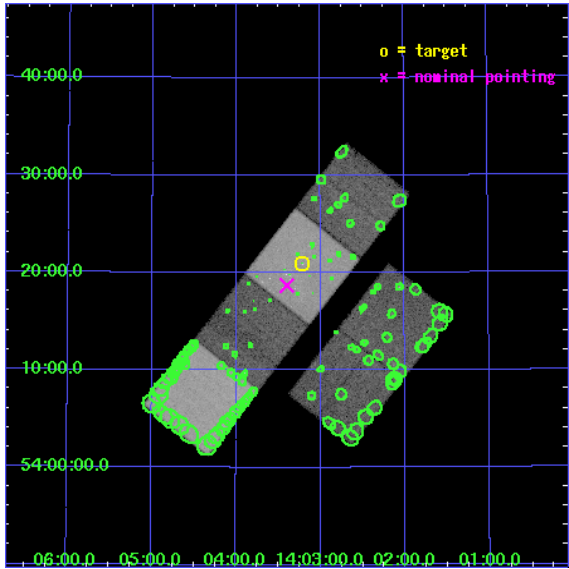
L2 Processing Date : Apr 19 2006

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# 1 Front

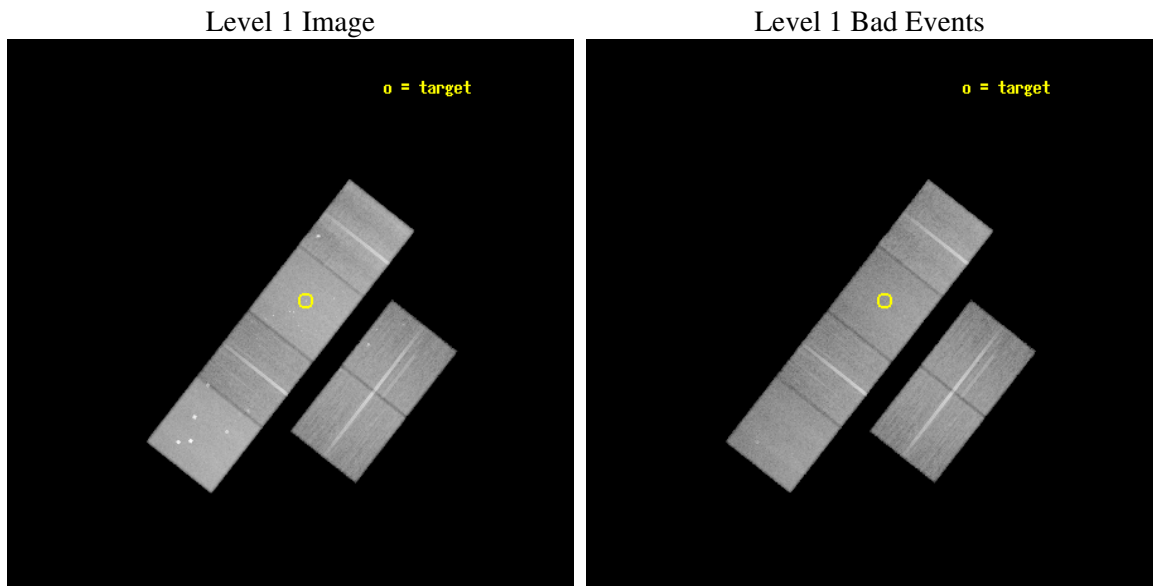
seq_num	600390
obs_id	6115
title	An Ultra-Deep Study of M101
observer	Dr. K. Kuntz
object	M101
dtcycle	0
cycle	P
ra_targ	210.80375
dec_targ	54.348778
ra_nom	210.84969508376
dec_nom	54.311748304741
roll_nom	308.11930218092
revision	2
ontime	36217.599865079
livetime	35758.990807967
ontime2	36211.118054062
ontime3	36217.599865079
ontime5	36217.599865079
ontime6	36217.599865079
ontime7	36217.599865079
ontime8	36217.599865079
l2events	442701



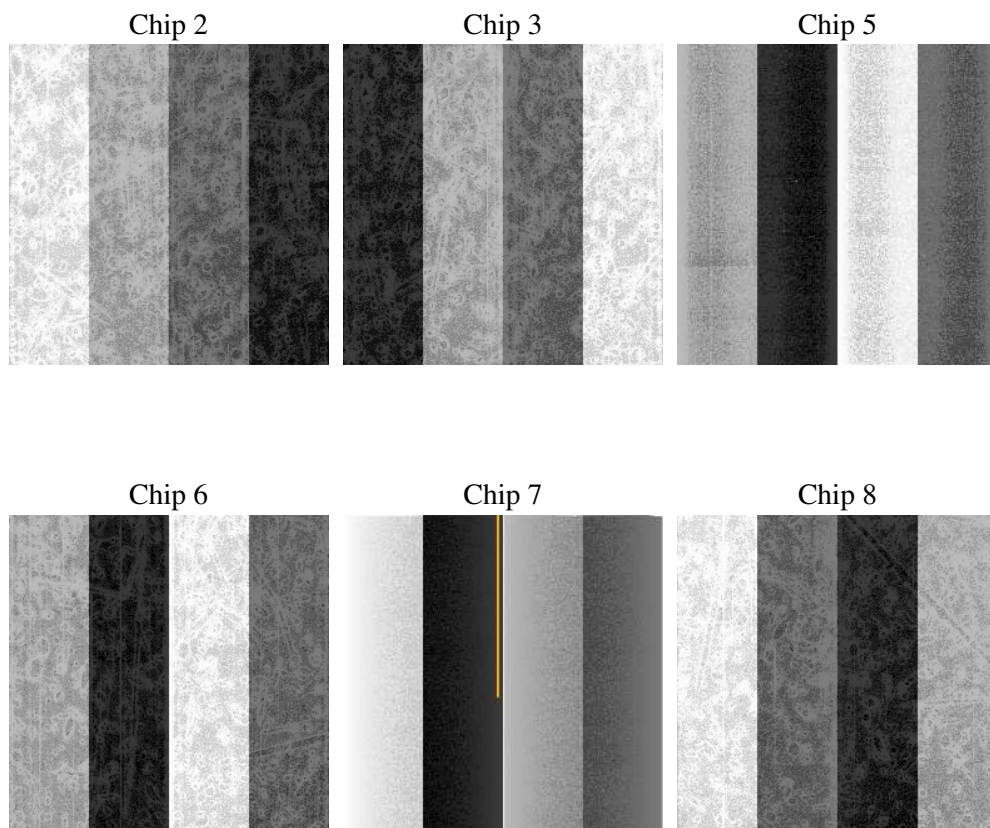
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldsver	3.2.1
date	2006-04-19T14:15:44
revision	2

sched_exp_time	36258.425000
ontime	36221.418716043
ontime2	36214.936905026
ontime3	36221.418716043
ontime5	36221.418745995
ontime6	36221.418716043
ontime7	36221.418716043
ontime8	36221.418696165
l1events	1987931

### 2.1.4 Events

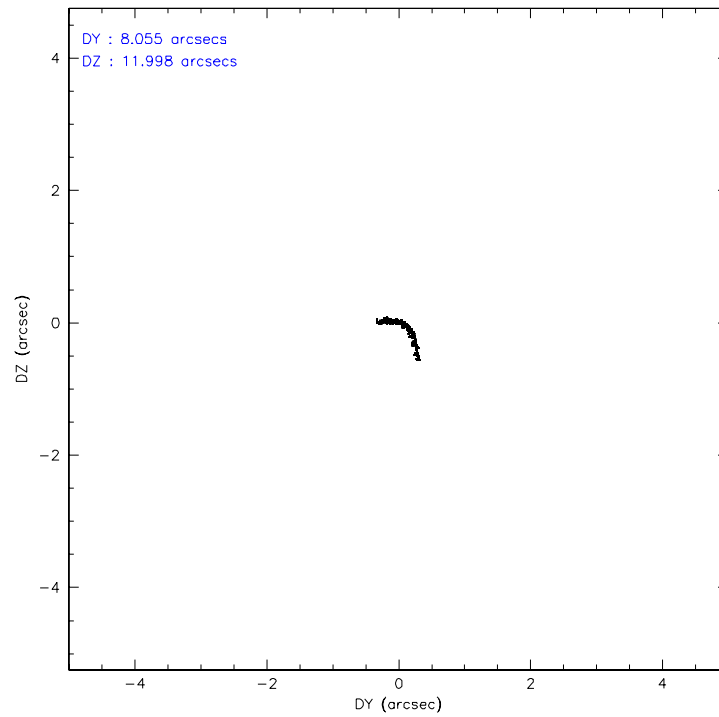
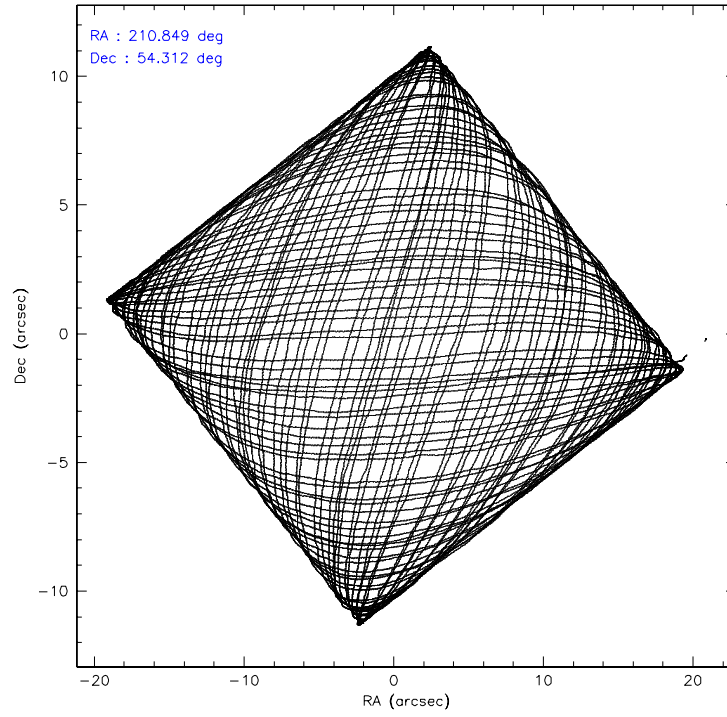
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	285116	268890	420477	280182	381297	351969
rejected events	251603	235538	230463	245965	230842	275833
rejected %	88%	87%	54%	87%	60%	78%

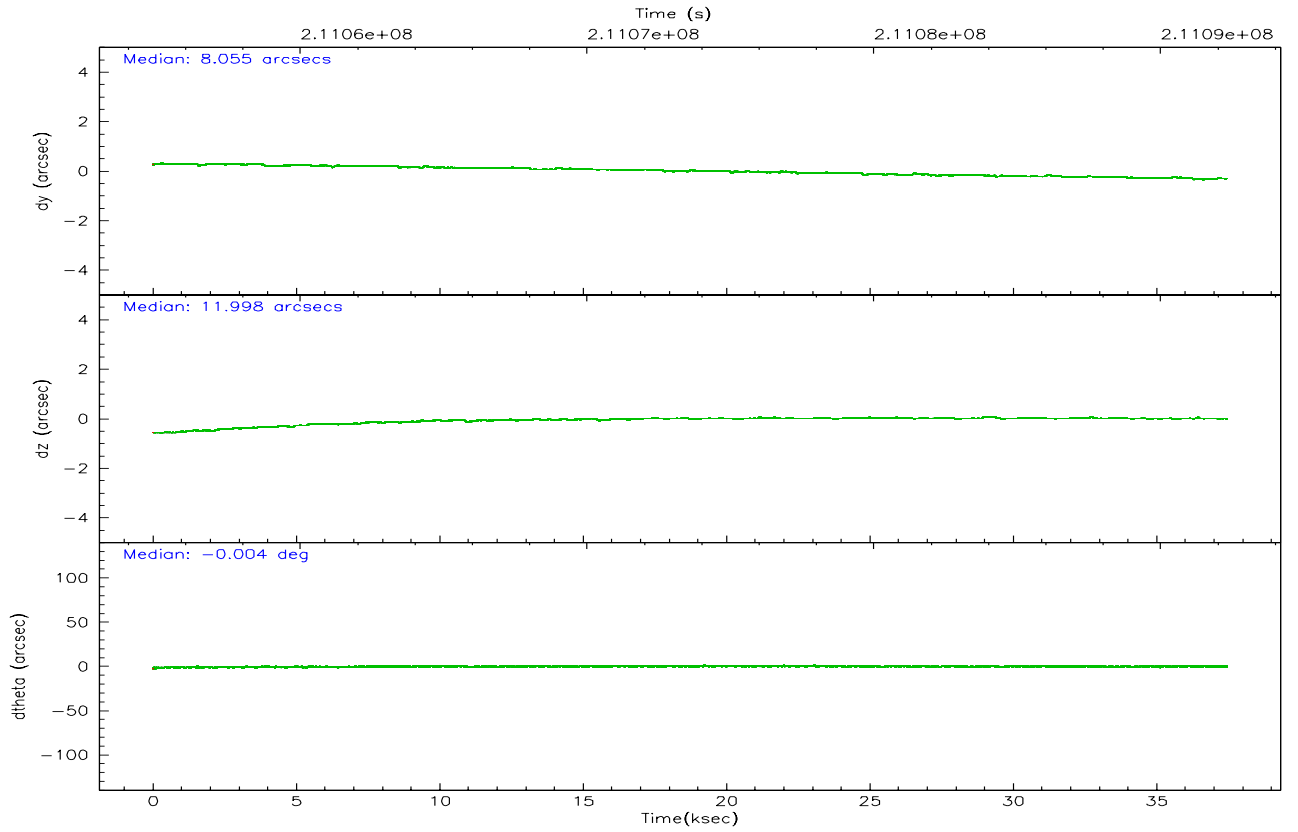
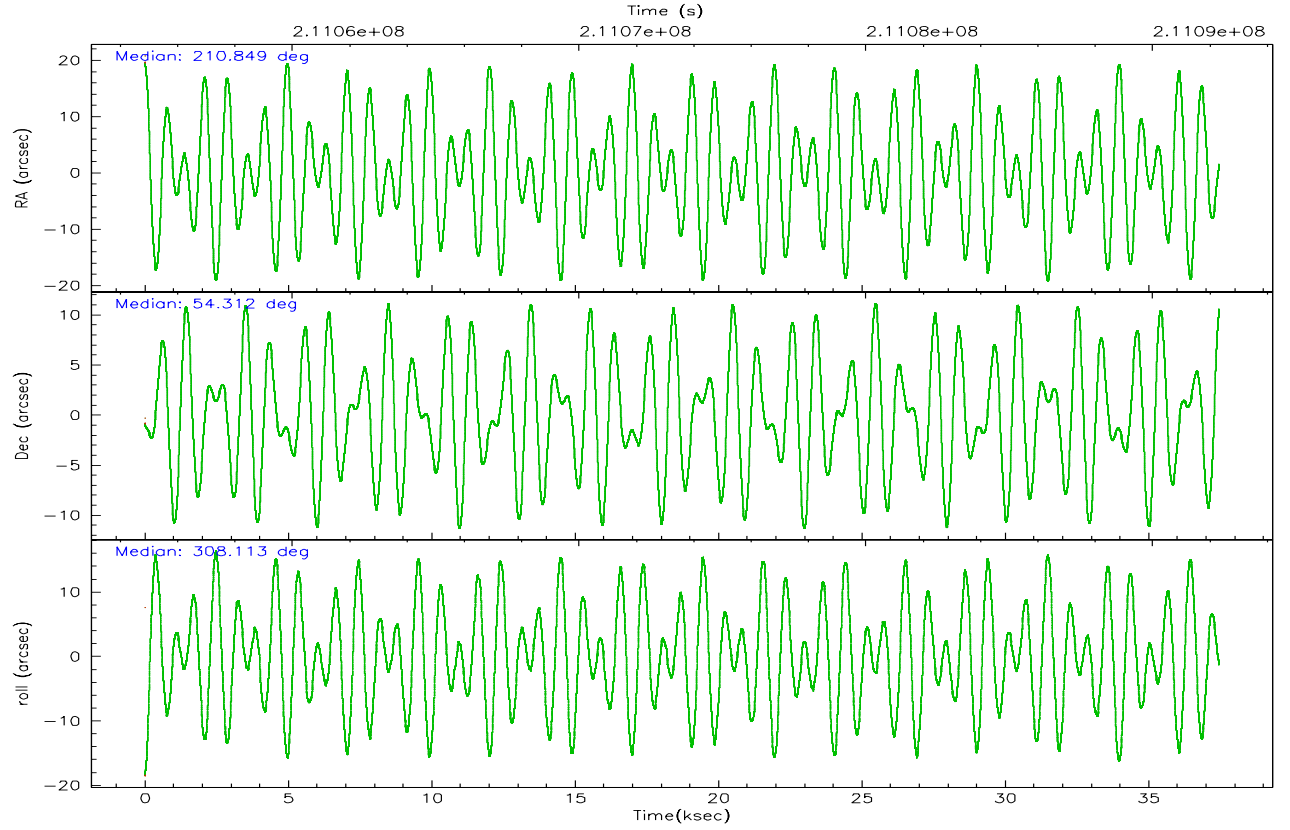
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	15104	15161	18433	14074	10711	25093
	5%	5%	4%	5%	2%	7%
grade 1 events	193	156	378	144	220	223
	0%	0%	0%	0%	0%	0%
grade 2 events	6714	6279	59125	7005	37682	16581
	2%	2%	14%	2%	9%	4%
grade 3 events	3095	3197	4013	3277	7907	7849
	1%	1%	0%	1%	2%	2%
grade 4 events	3142	3126	3816	3234	7716	7452
	1%	1%	0%	1%	2%	2%
grade 5 events	10978	12222	19582	12730	24637	16506
	3%	4%	4%	4%	6%	4%
grade 6 events	5463	5593	104646	6629	86452	19185
	1%	2%	24%	2%	22%	5%
grade 7 events	240427	223156	210484	233089	205972	259080
	84%	82%	50%	83%	54%	73%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	210.806153	210.8496950837576	Alternating exposures requested	N	N
Pointing Dec	54.321537	54.31174830474146	Primary exposure time	0.000000	3.2
Pointing Roll	307.998039	308.1193021809235			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	211056062.184000	211054596.49445			
Observation start date	2004-09-08T18:39:58	2004-09-08T18:16:36			
Observation end time	211092321.184000	211092549.68364			
Observation end date	2004-09-09T04:44:17	2004-09-09T04:49:09			
Read mode	TIMED	TIMED			

## 2.3 Aspect





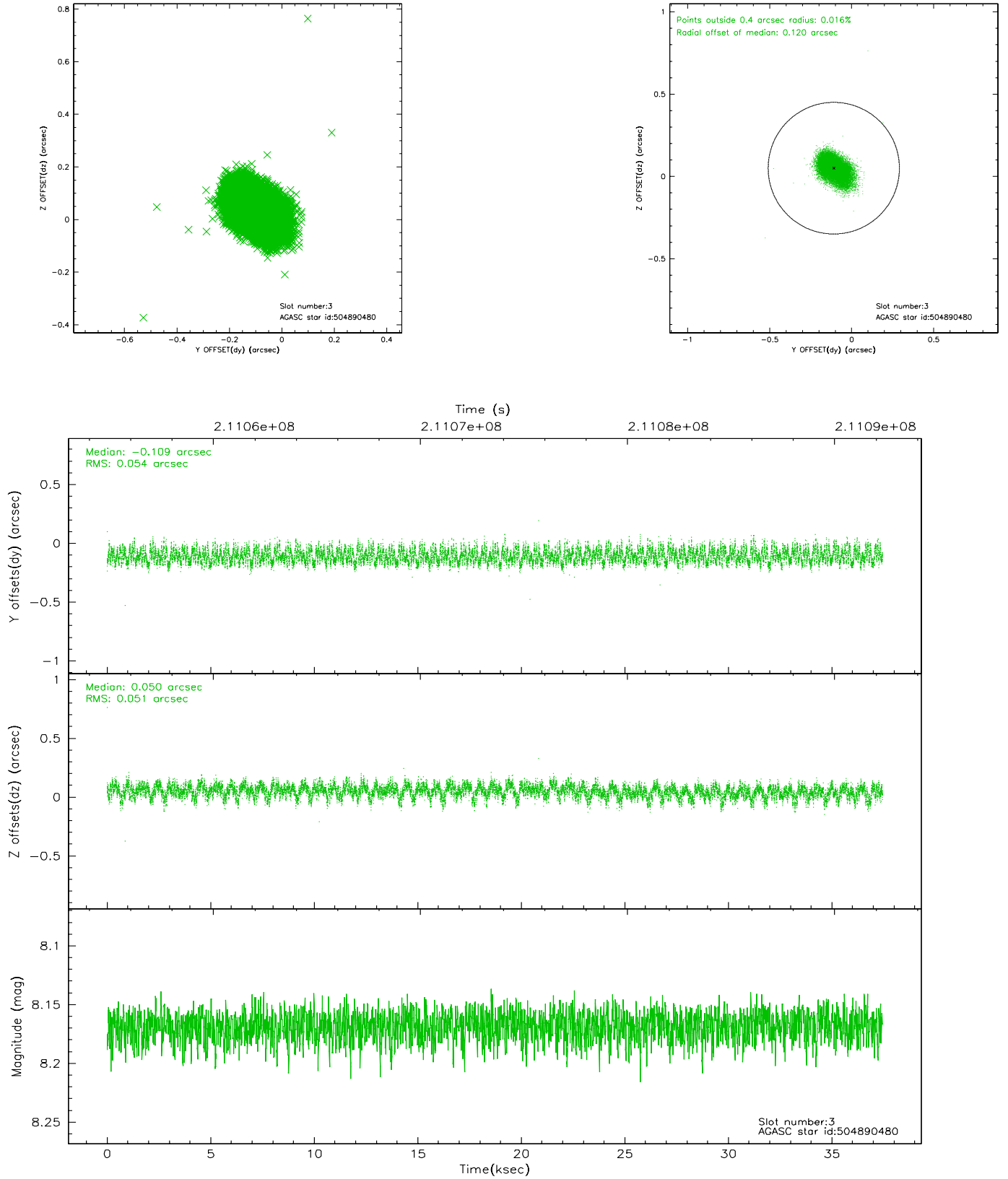
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	9134	-0.000	0.007	0.011	0.016	0.000000	0.000000	-760.84	-1733.21
1	FID	ACIS-S-4	7.20	9136	0.034	-0.001	0.010	0.018	0.000000	0.000000	2152.46	175.23
2	FID	ACIS-S-5	7.23	9136	-0.065	0.005	0.009	0.015	0.000000	0.000000	-1813.71	168.94
3	GUIDE	504890480	8.17	18269	-0.109	0.050	0.079	0.127	210.132463	53.768436	681.77	-2351.35
4	GUIDE	504891480	8.07	18271	-0.038	-0.077	0.056	0.091	210.708012	54.666096	-1103.20	602.79
5	GUIDE	504894408	9.28	18261	0.034	0.098	0.094	0.153	211.942794	54.047749	2240.47	1299.03
6	GUIDE	504894856	8.98	18259	0.012	-0.041	0.084	0.140	209.819510	54.132689	-756.26	-2049.16
7	GUIDE	505292416	9.29	18260	0.102	-0.031	0.093	0.151	210.920759	55.040479	-1894.56	1779.85

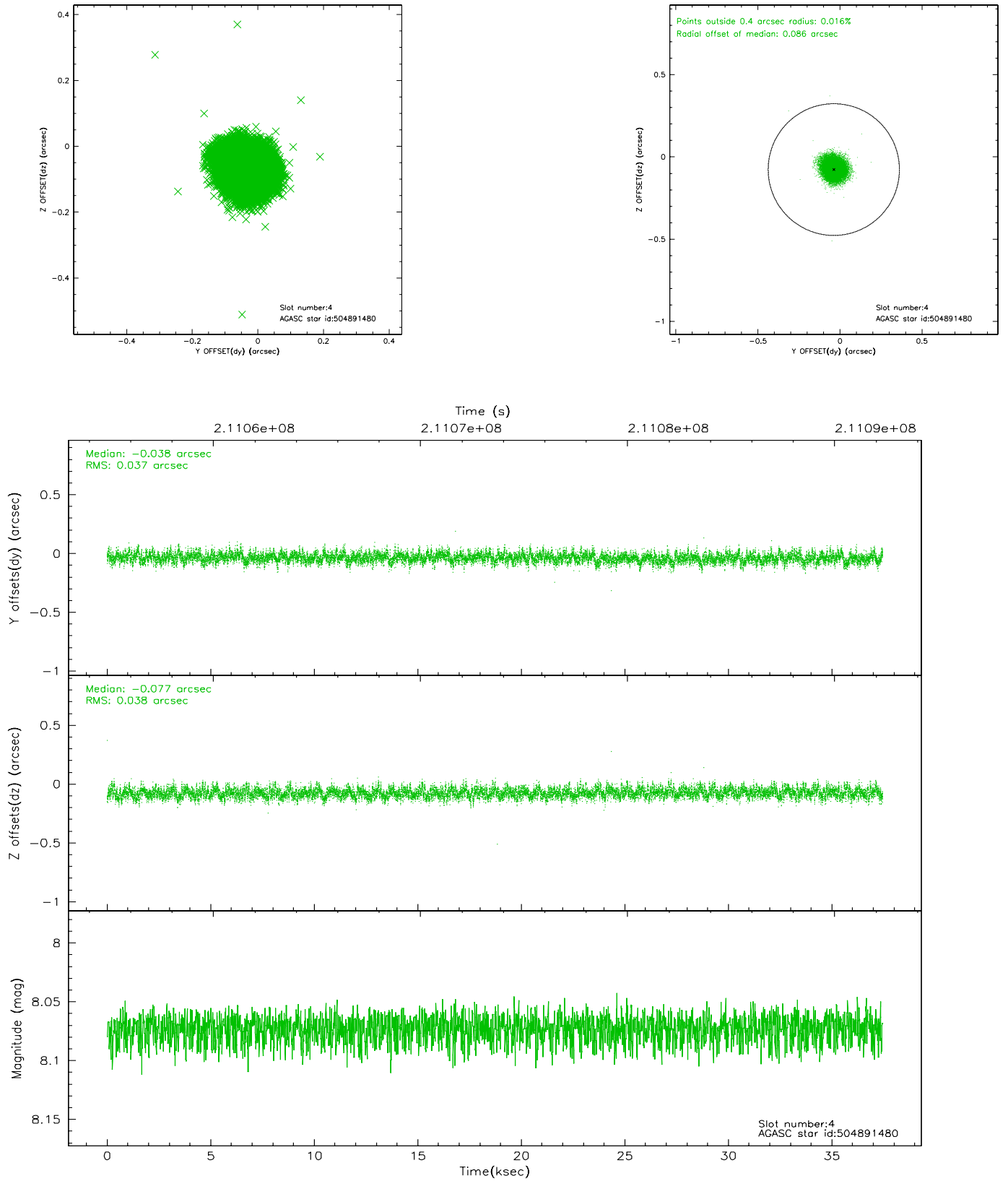


## 2.4 Star Slots

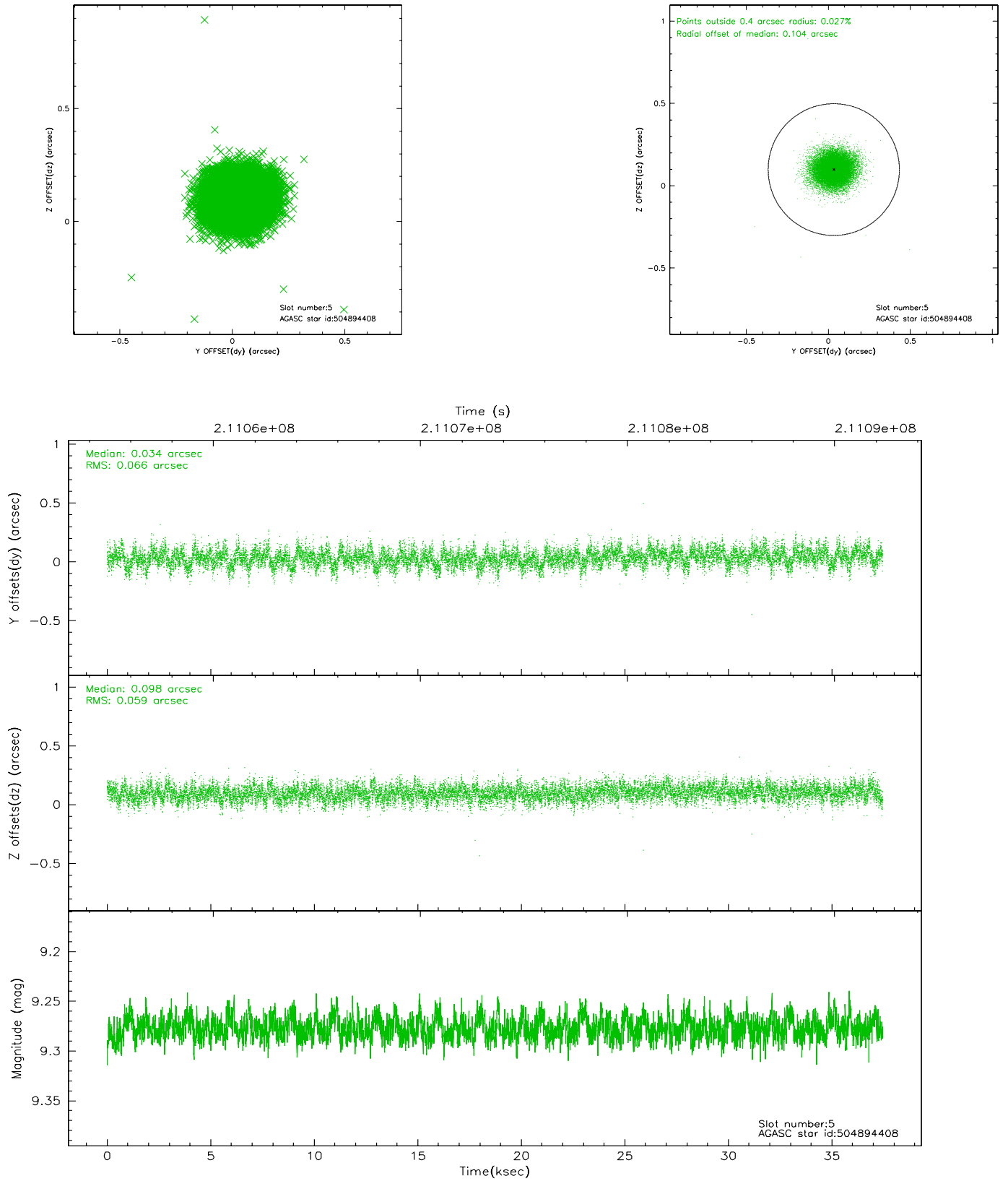
### 2.4.1 Slot 3



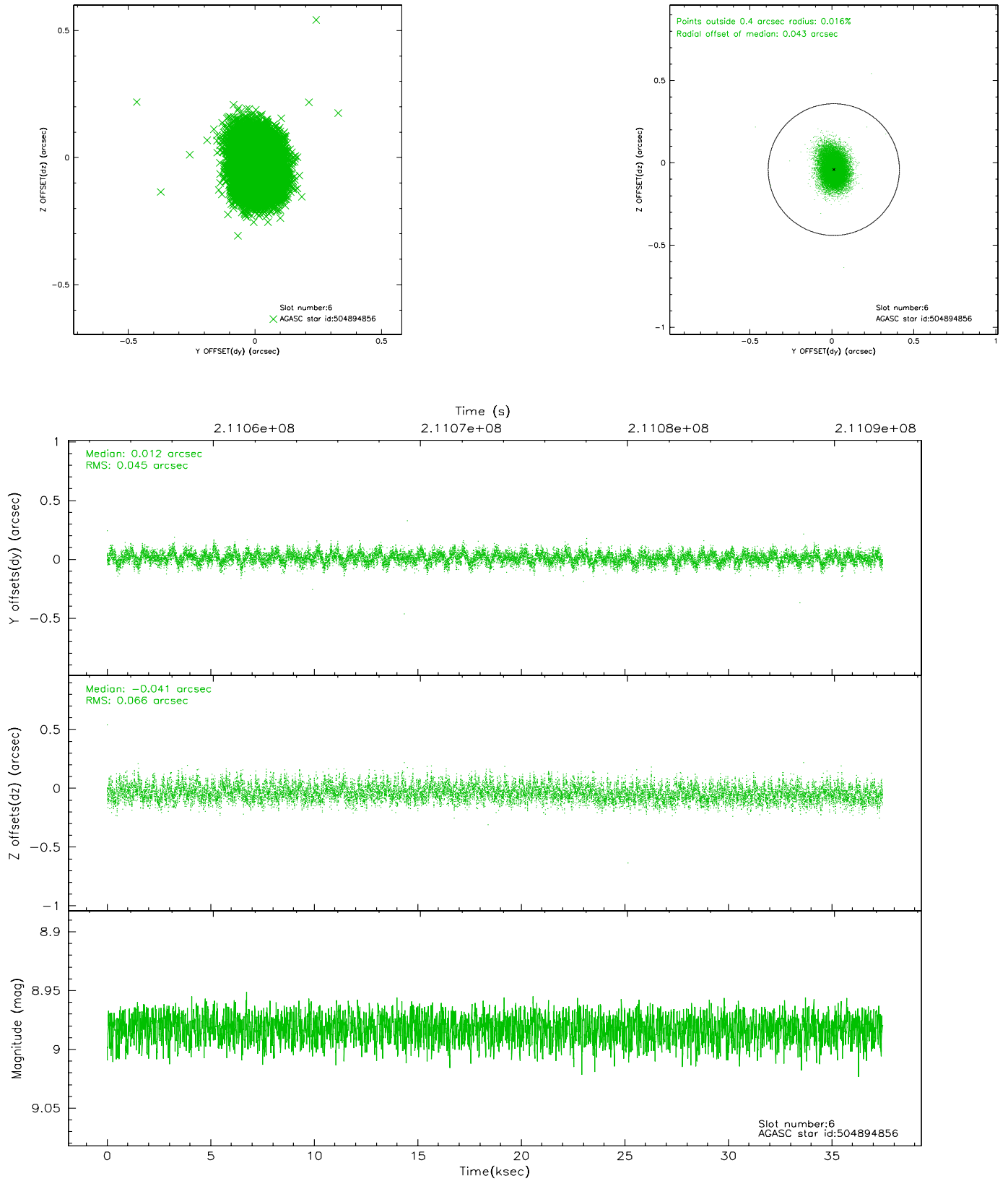
## 2.4.2 Slot 4



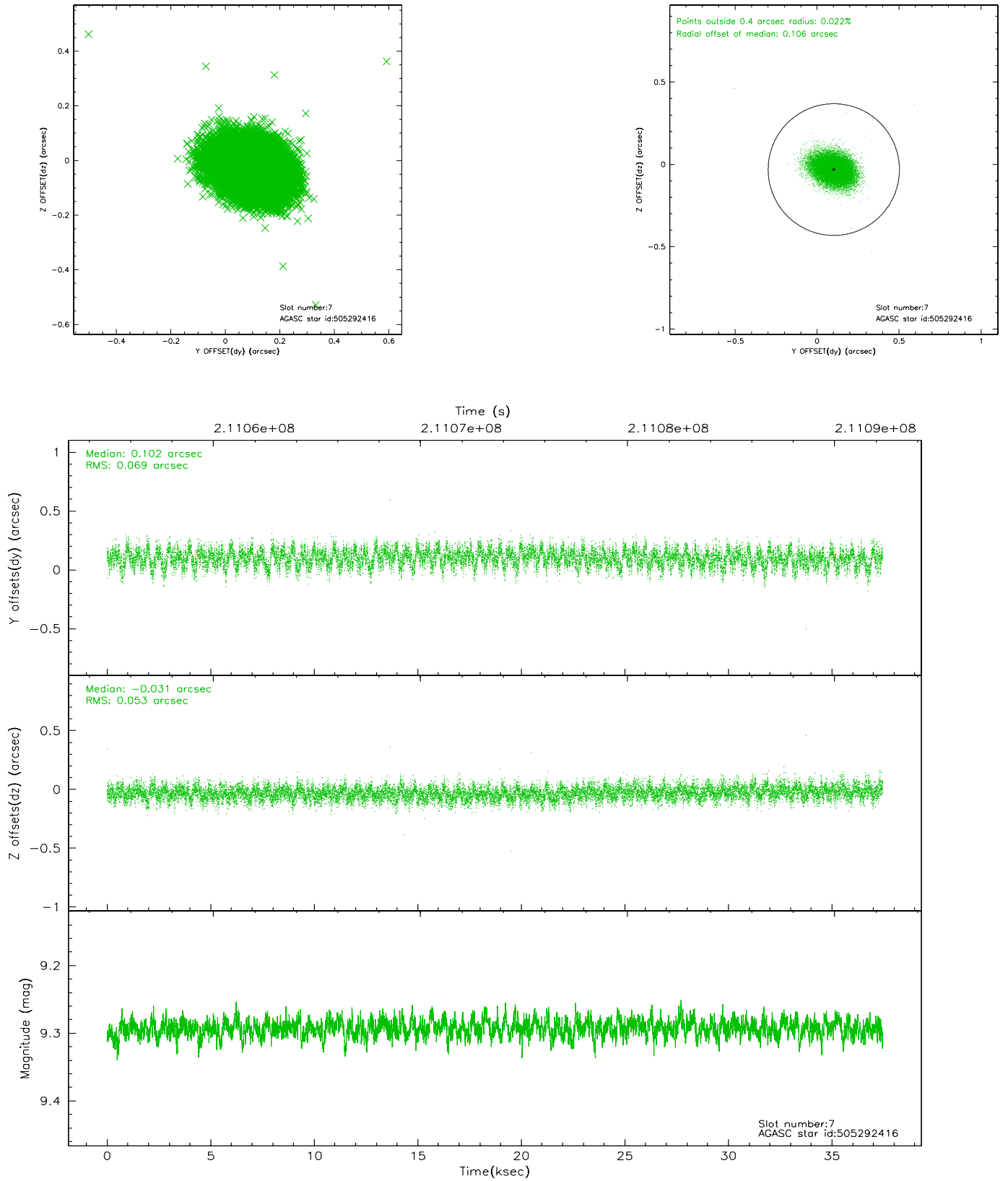
### 2.4.3 Slot 5



## 2.4.4 Slot 6

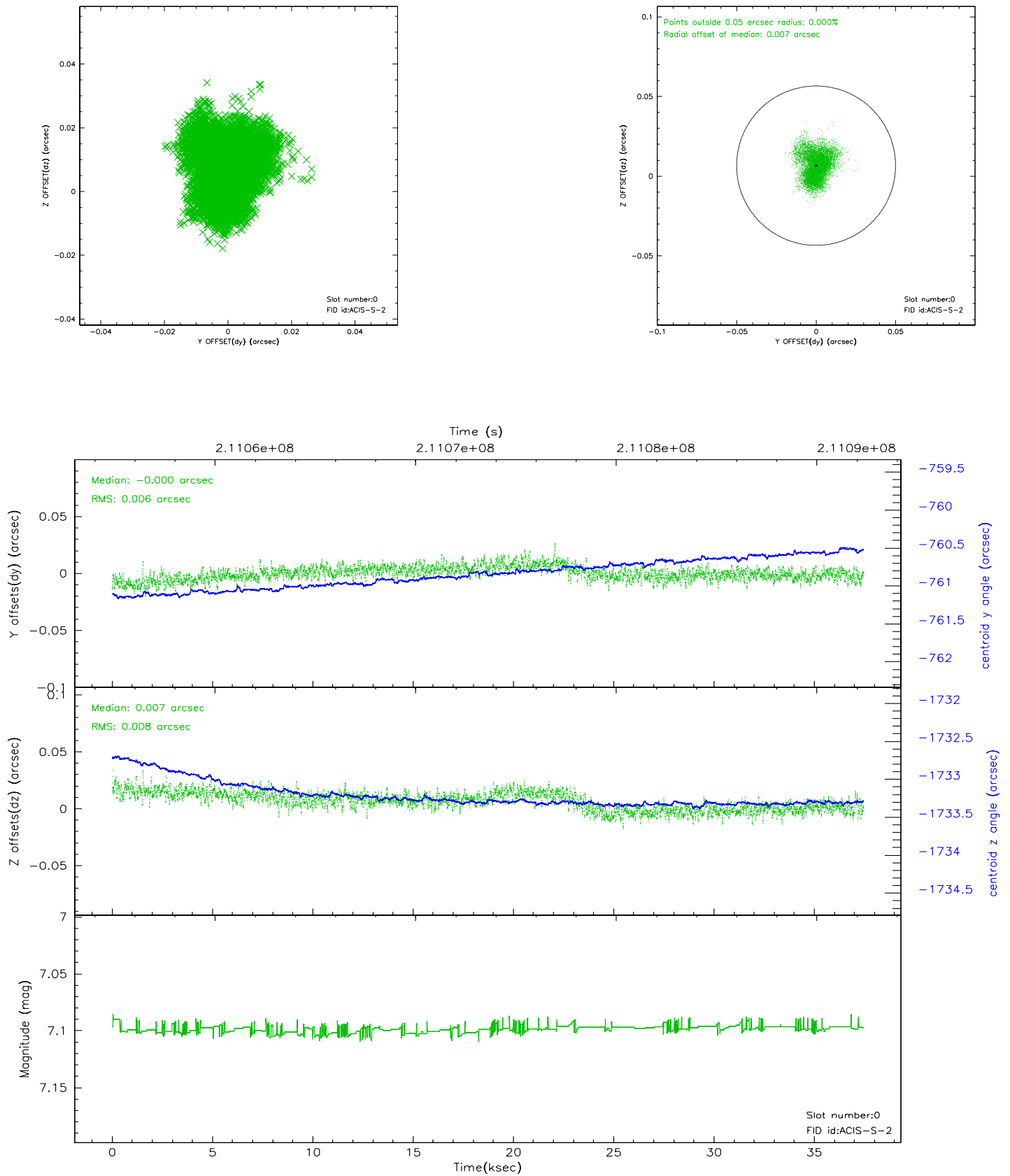


## 2.4.5 Slot 7

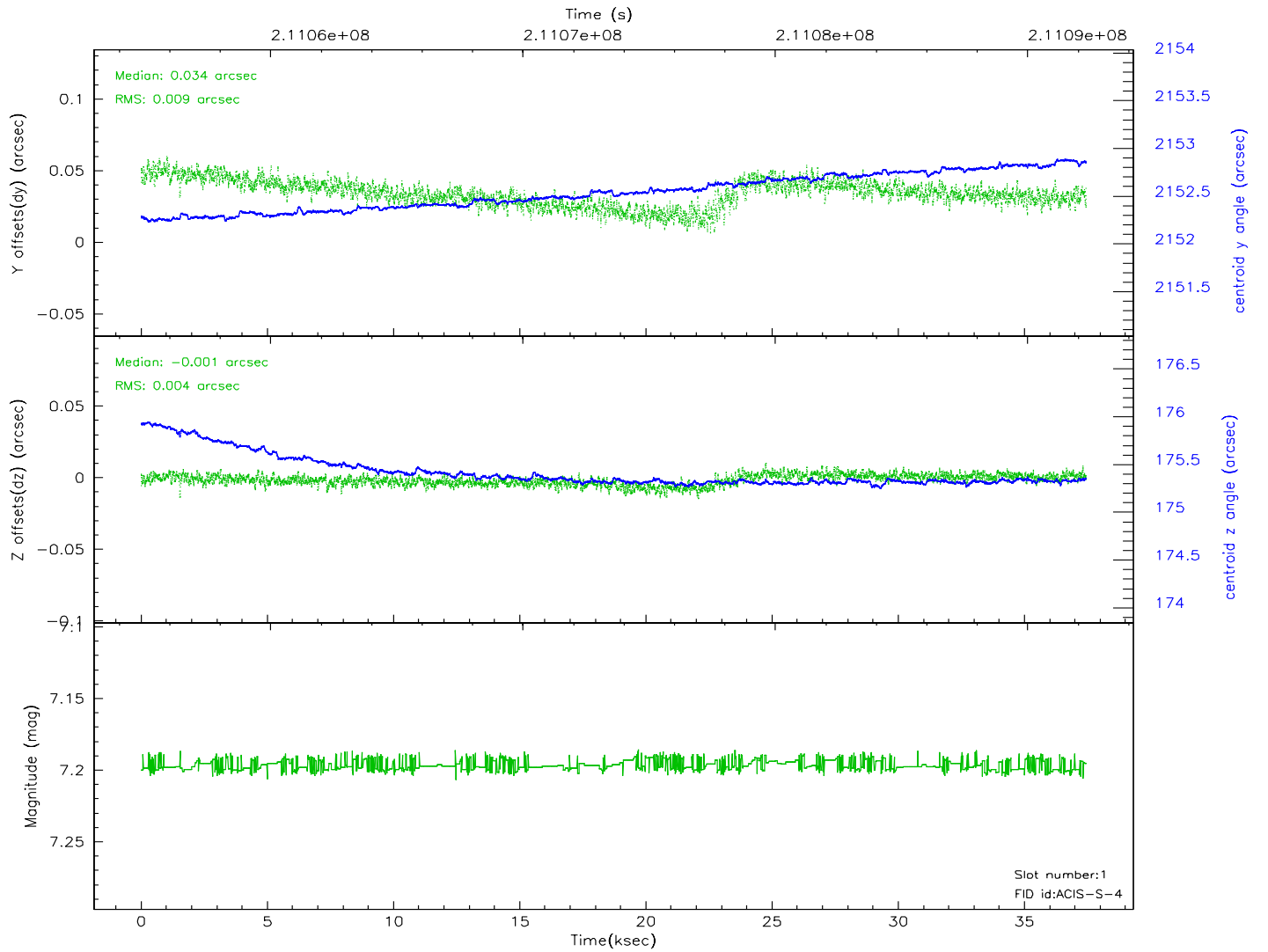
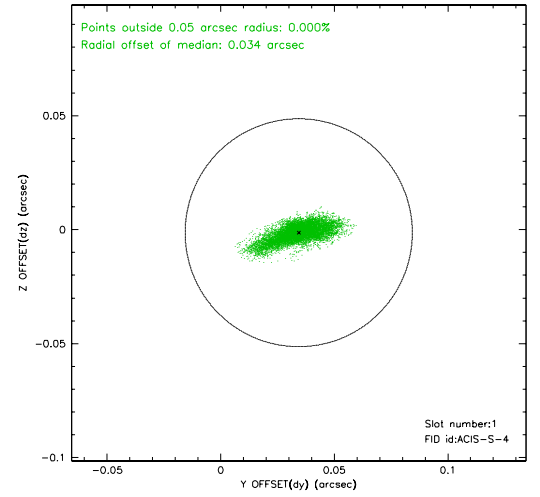
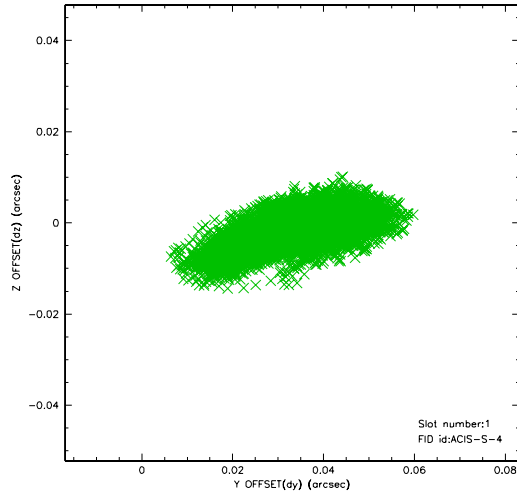


## 2.5 FID Slots

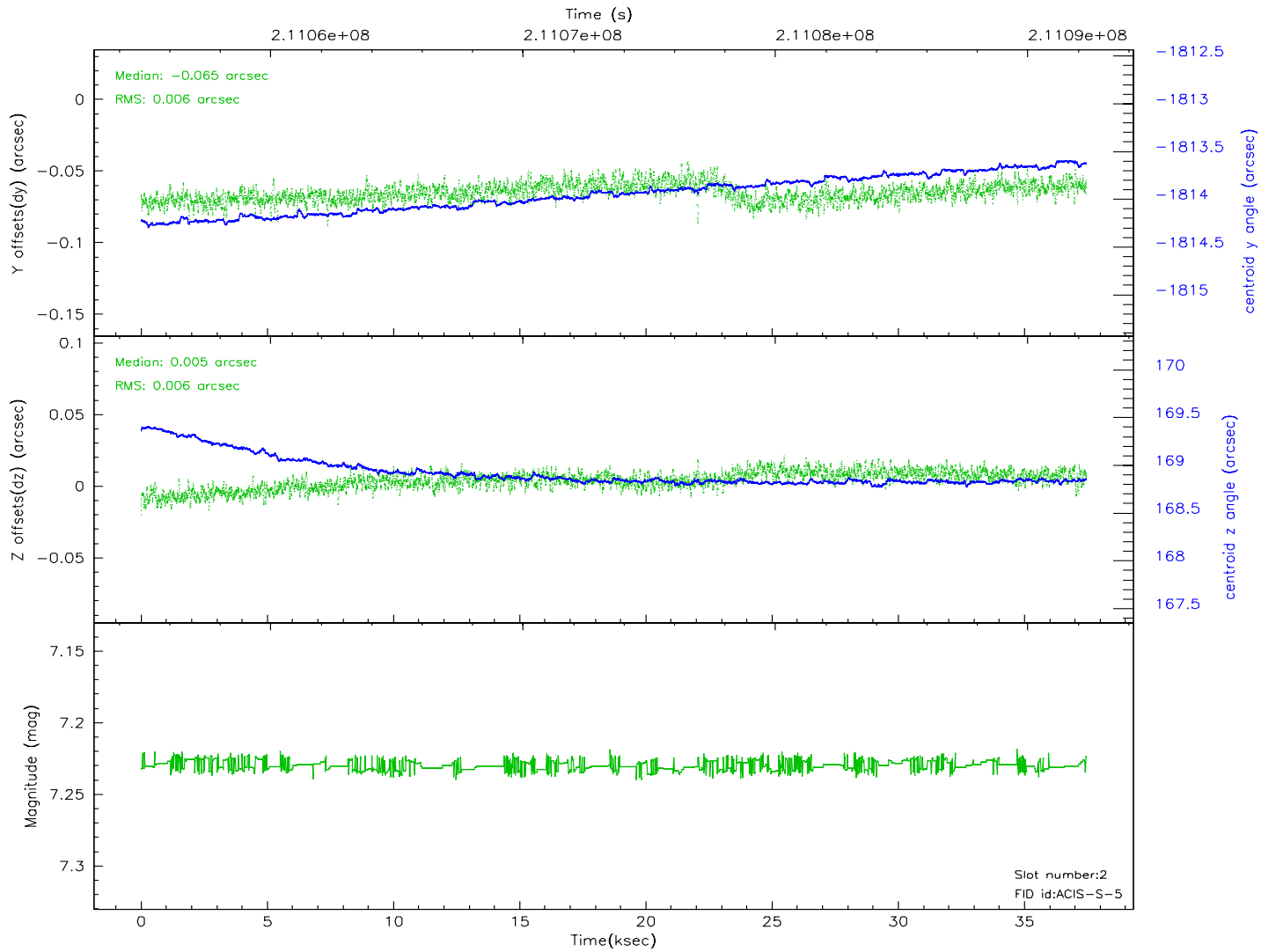
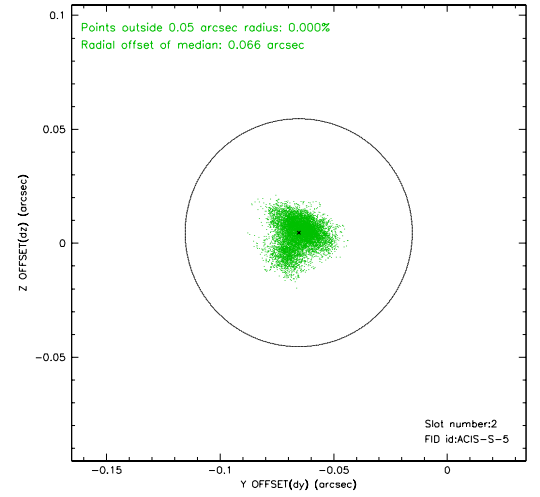
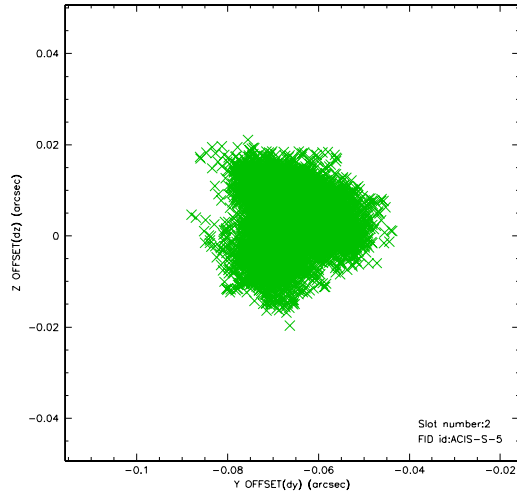
### 2.5.1 Slot 0



## 2.5.2 Slot 1

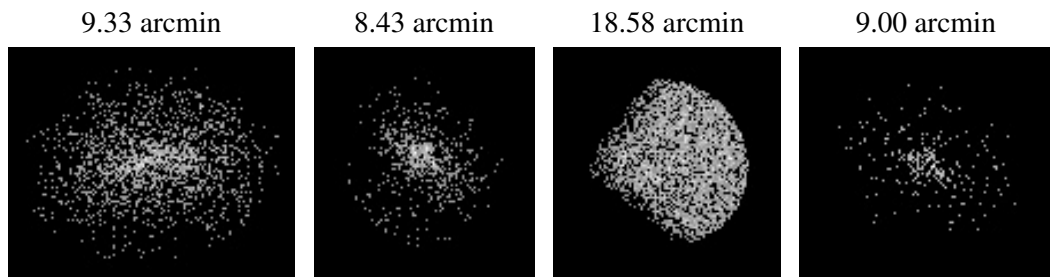


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Doug Morgan
V&V Date (YYYY-MM-DD)	2006.04.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.204

### A.2 Comments