

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 3317 - L2 Version 001  
Chandra X-Ray Center

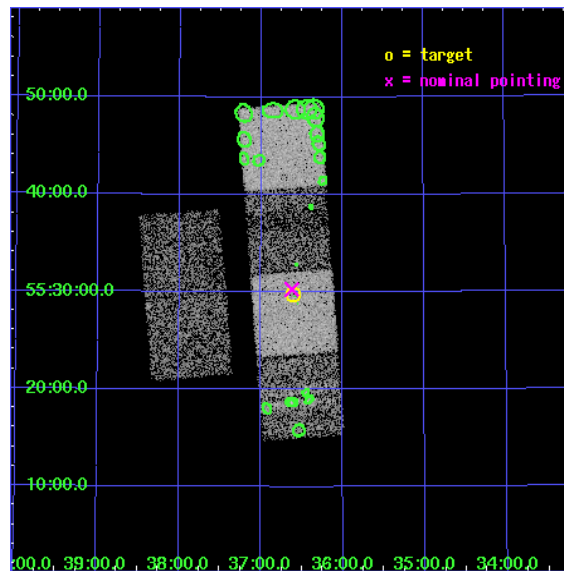
L2 Processing Date : Jan 13 2007

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# 1 Front

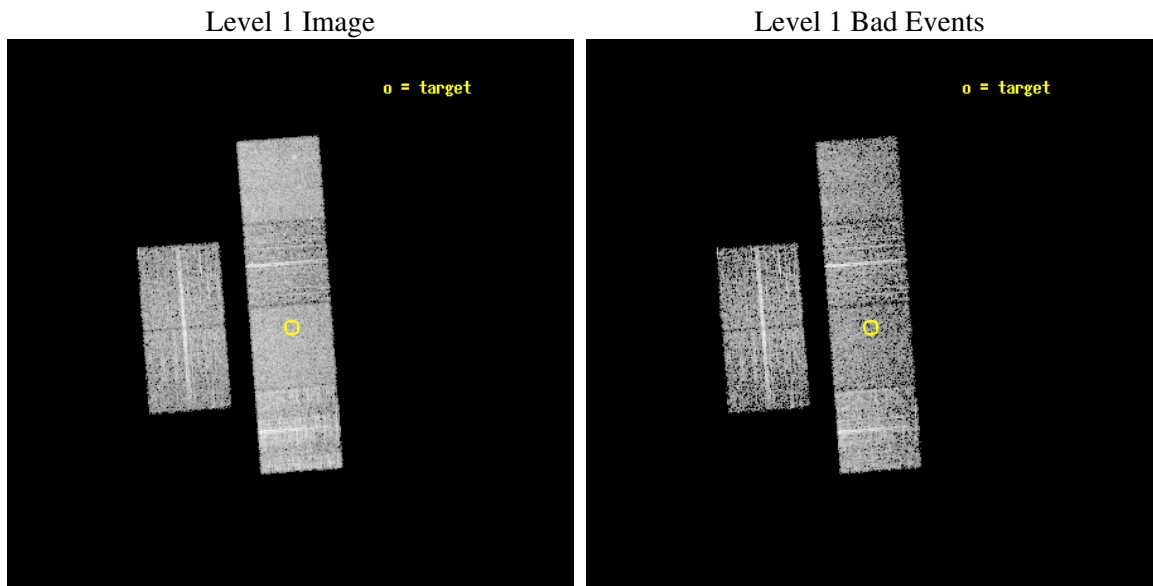
seq_num	900156
obs_id	3317
title	THE SHEEP SURVEY: WHAT KIND OF OBJECTS MAKE THE X-RAY BACKGROUND?
observer	Professor Kirpal Nandra
object	AX J0836.6+5529
dtcycle	0
cycle	P
ra_targ	129.150833
dec_targ	55.495
ra_nom	129.15526139936
dec_nom	55.504446949968
roll_nom	85.724344799529
revision	2
ontime	4252.8000039607
livetime	4198.9484895819
ontime2	4252.8000039607
ontime3	4252.8000039607
ontime5	4252.8000039607
ontime6	4252.8000039607
ontime7	4252.8000039607
ontime8	4249.5590437055
l2events	49919



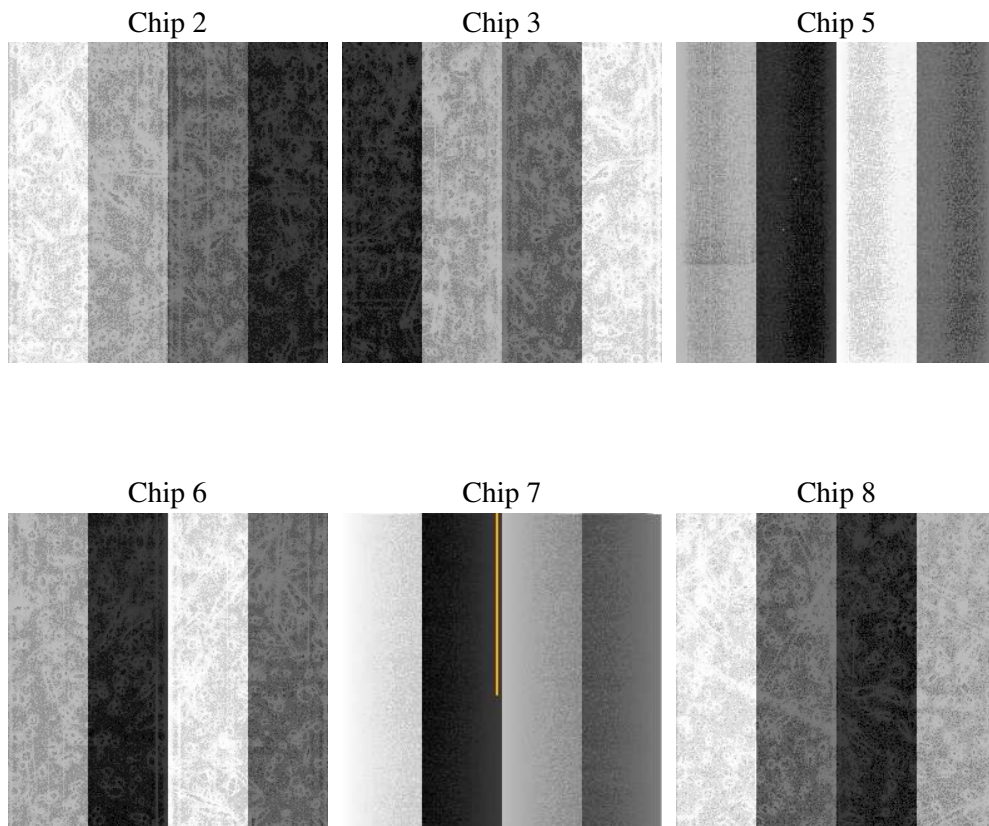
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	3
ascdsver	7.6.10
caldsver	3.3.0
date	2007-01-13T09:30:14
revision	2

sched_exp_time	4500.000000
ontime	4252.8000039607
ontime2	4252.8000039607
ontime3	4252.8000039607
ontime5	4252.8000039607
ontime6	4252.8000039607
ontime7	4252.8000039607
ontime8	4249.5590437055
l1events	208511

### 2.1.4 Events

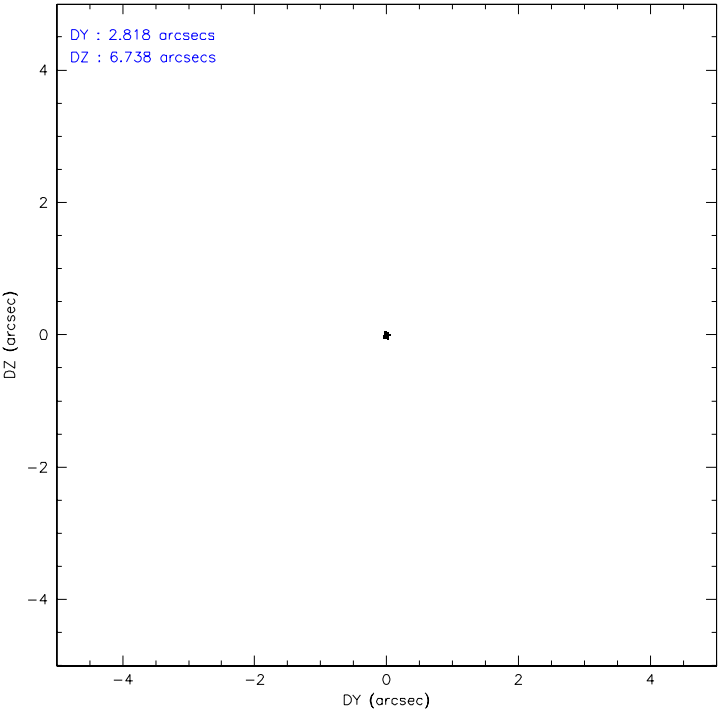
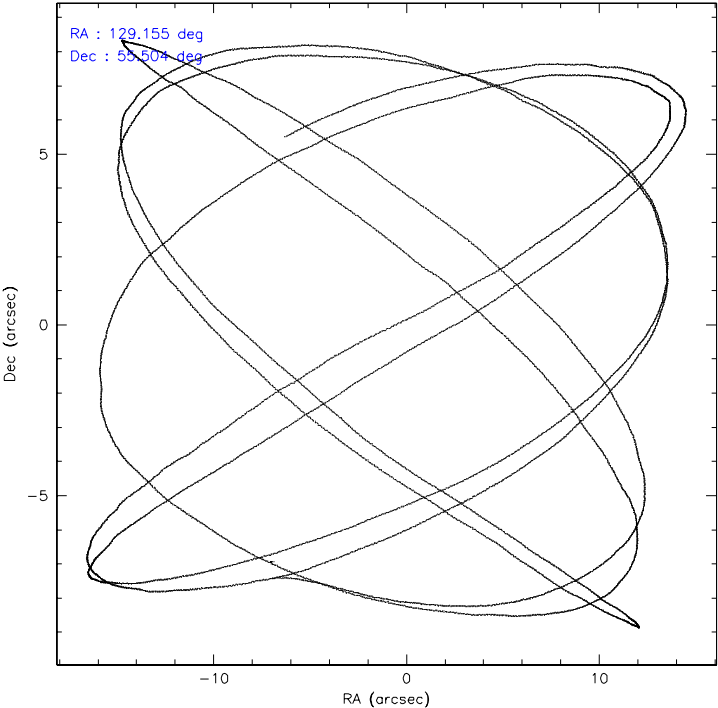
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	29136	28214	39434	29187	37011	45529
rejected events	25090	24116	21080	24883	20713	31535
rejected %	86%	85%	53%	85%	55%	69%

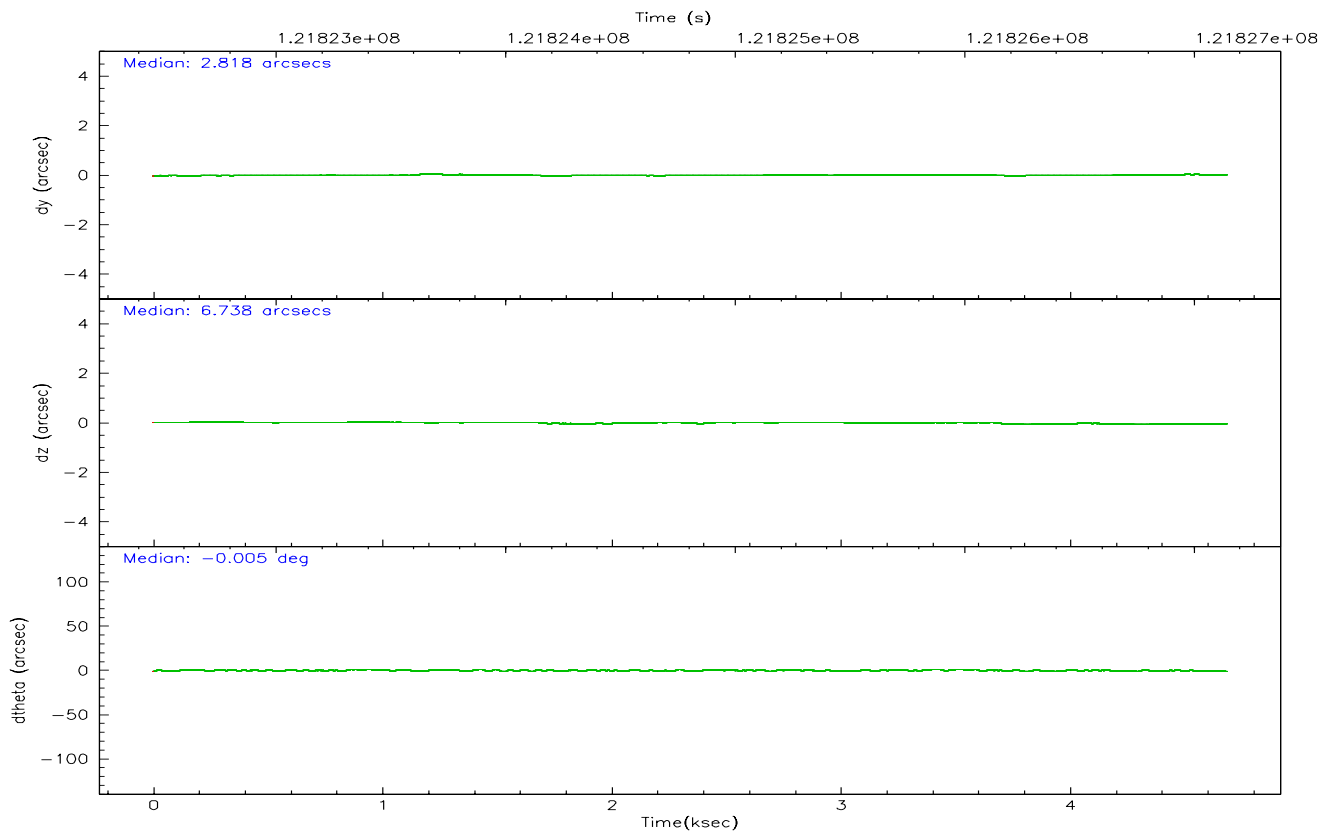
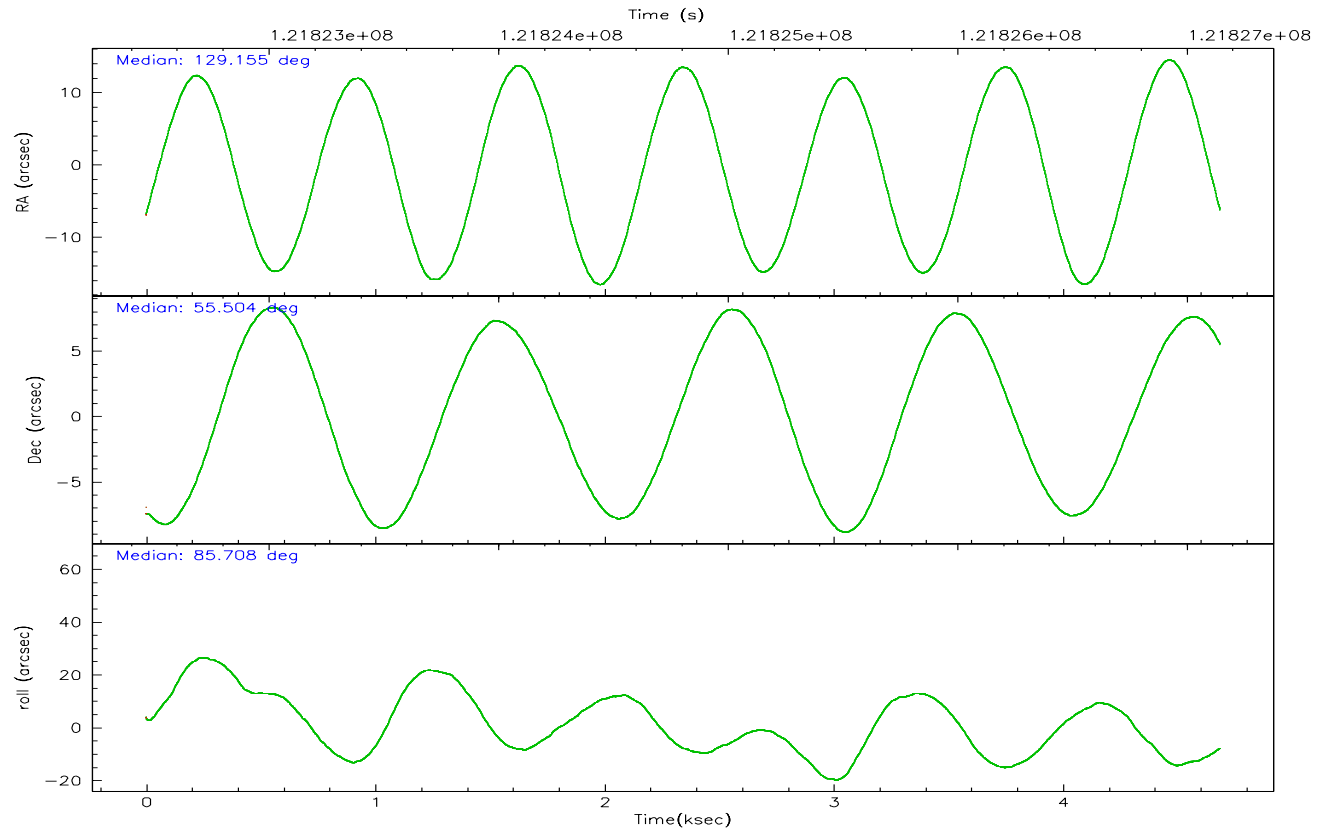
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1770	1669	1541	1851	1622	4497
	6%	5%	3%	6%	4%	9%
grade 1 events	15	9	42	15	36	53
	0%	0%	0%	0%	0%	0%
grade 2 events	949	1034	5569	992	3145	2571
	3%	3%	14%	3%	8%	5%
grade 3 events	267	292	838	351	1472	1983
	0%	1%	2%	1%	3%	4%
grade 4 events	314	327	779	339	1428	1805
	1%	1%	1%	1%	3%	3%
grade 5 events	914	1030	2818	1133	3379	1497
	3%	3%	7%	3%	9%	3%
grade 6 events	755	779	9643	773	8652	3150
	2%	2%	24%	2%	23%	6%
grade 7 events	24152	23074	18204	23733	17277	29973
	82%	81%	46%	81%	46%	65%

## 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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	129.176507	129.1552613993593	Subarray requested	NONE	NONE
Pointing Dec	55.480005	55.50444694996796	Alternating exposures requested	N	N
Pointing Roll	85.550218	85.72434479952899	Primary exposure time	0.000000	3.2
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	121822647.184000	121822271.13537			
Observation start date	2001-11-10T23:36:23	2001-11-10T23:31:11			
Observation end time	121827147.184000	121827625.73558			
Observation end date	2001-11-11T00:51:23	2001-11-11T01:00:25			
Read mode	TIMED	TIMED			

## 2.3 Aspect





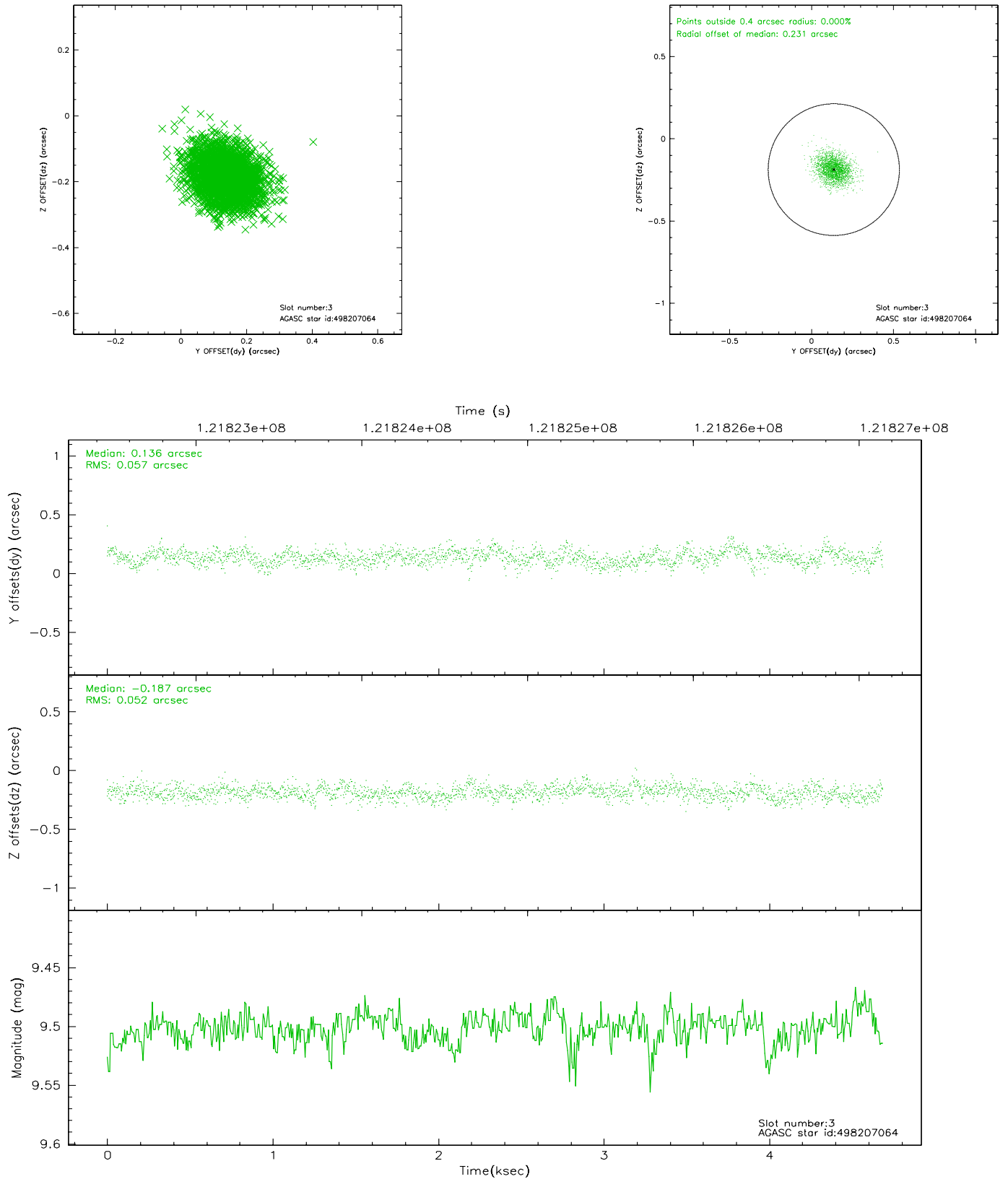
### Slot Statistics

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	1144	-0.010	0.038	0.008	0.012	0.000000	0.000000	-755.45	-1727.86
1	FID	ACIS-S-4	7.20	1144	-0.078	-0.005	0.005	0.009	0.000000	0.000000	2157.15	179.25
2	FID	ACIS-S-5	7.24	1144	0.057	-0.023	0.007	0.011	0.000000	0.000000	-1806.56	174.36
3	GUIDE	498207064	9.50	2284	0.136	-0.187	0.083	0.134	129.027738	55.651865	595.52	348.70
4	GUIDE	498208208	8.08	2286	-0.078	0.191	0.071	0.119	130.175717	55.667734	847.55	-1968.59
5	GUIDE	498206776	9.19	2287	-0.063	0.175	0.084	0.136	130.185581	55.785525	1272.30	-1950.69
6	GUIDE	498206320	7.72	2287	-0.048	0.127	0.056	0.090	129.264284	55.839214	1305.45	-77.50
7	GUIDE	498083896	9.80	2272	0.056	-0.307	0.151	0.275	128.146499	55.546750	94.11	2110.28

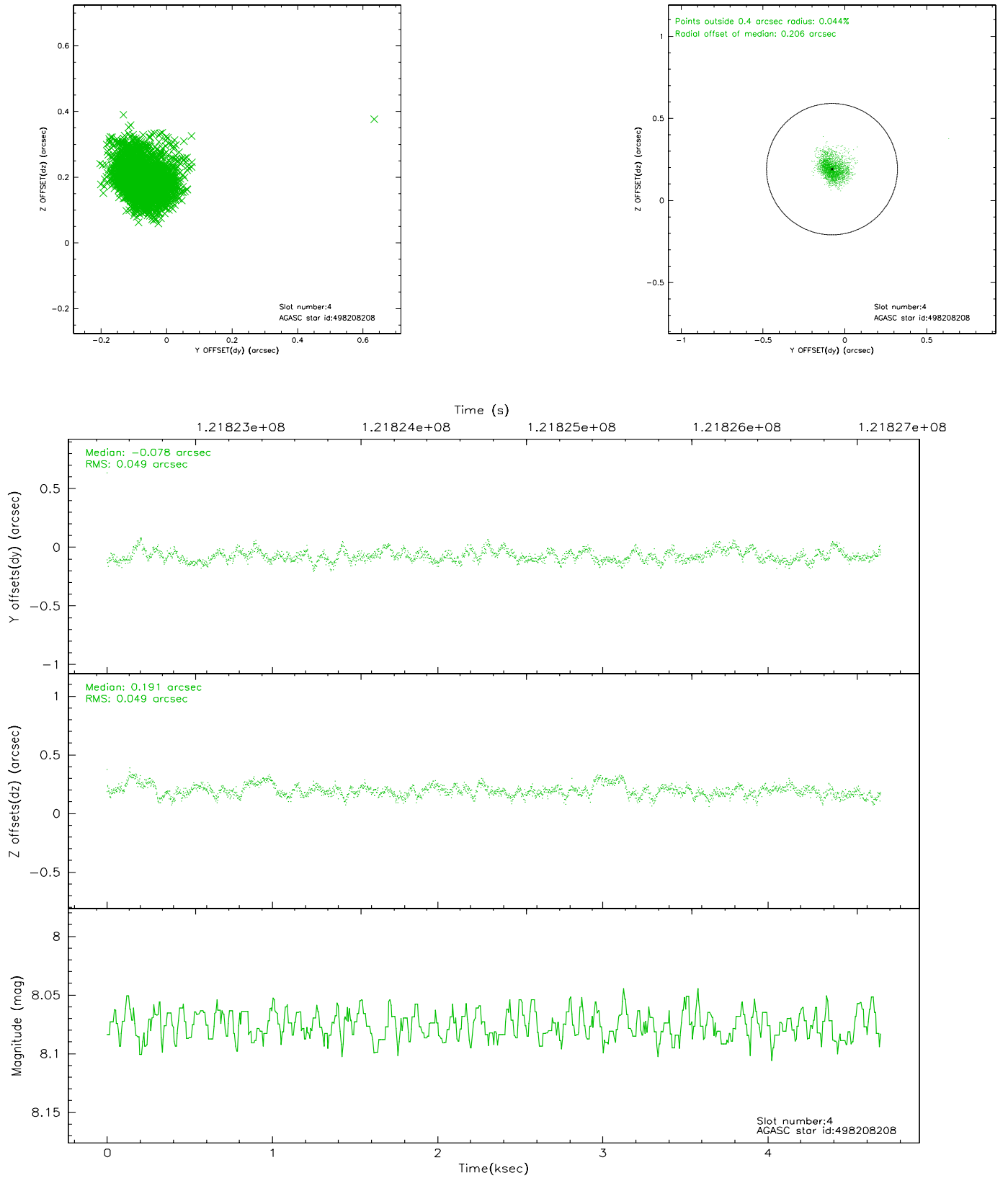


## 2.4 Star Slots

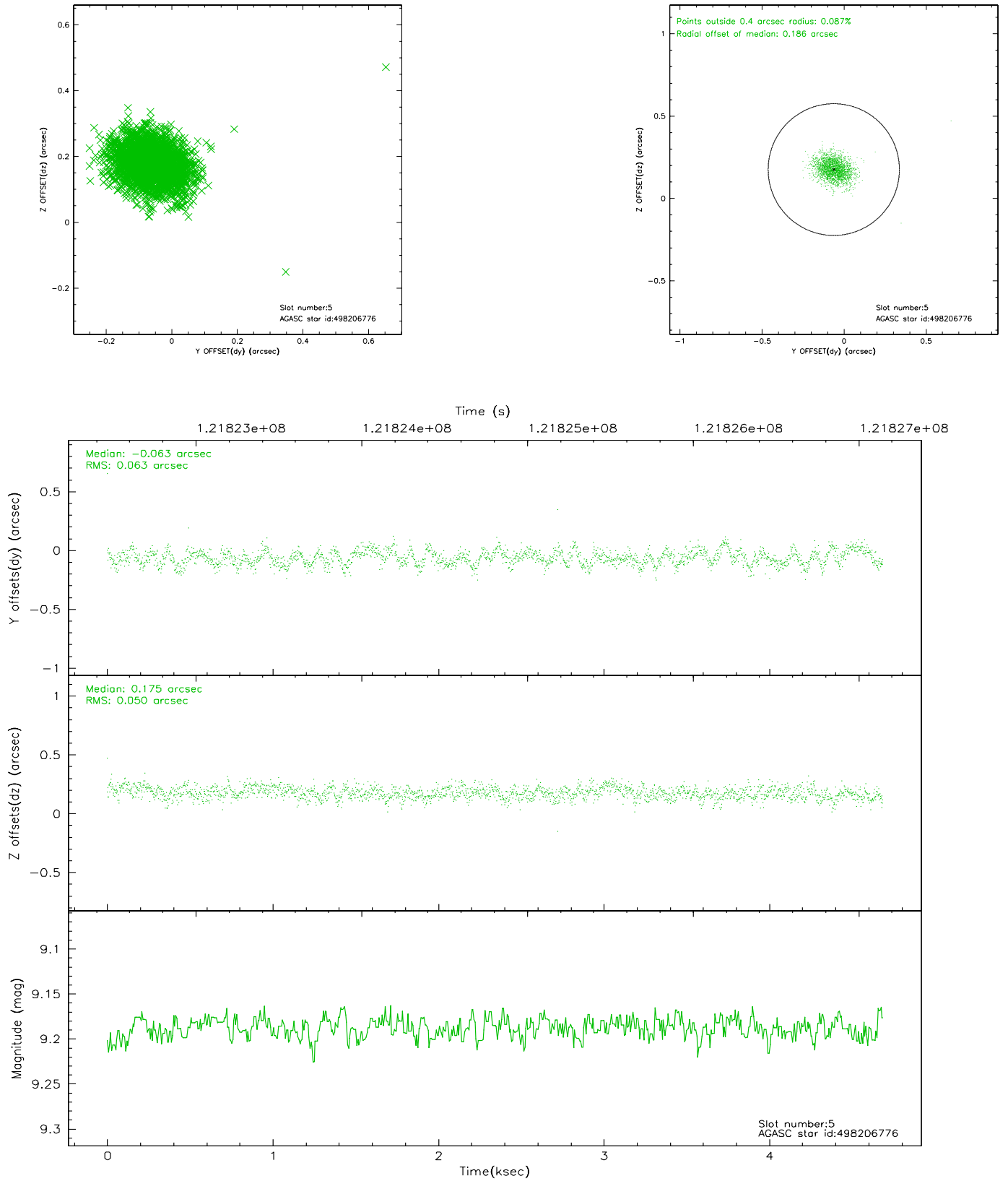
### 2.4.1 Slot 3



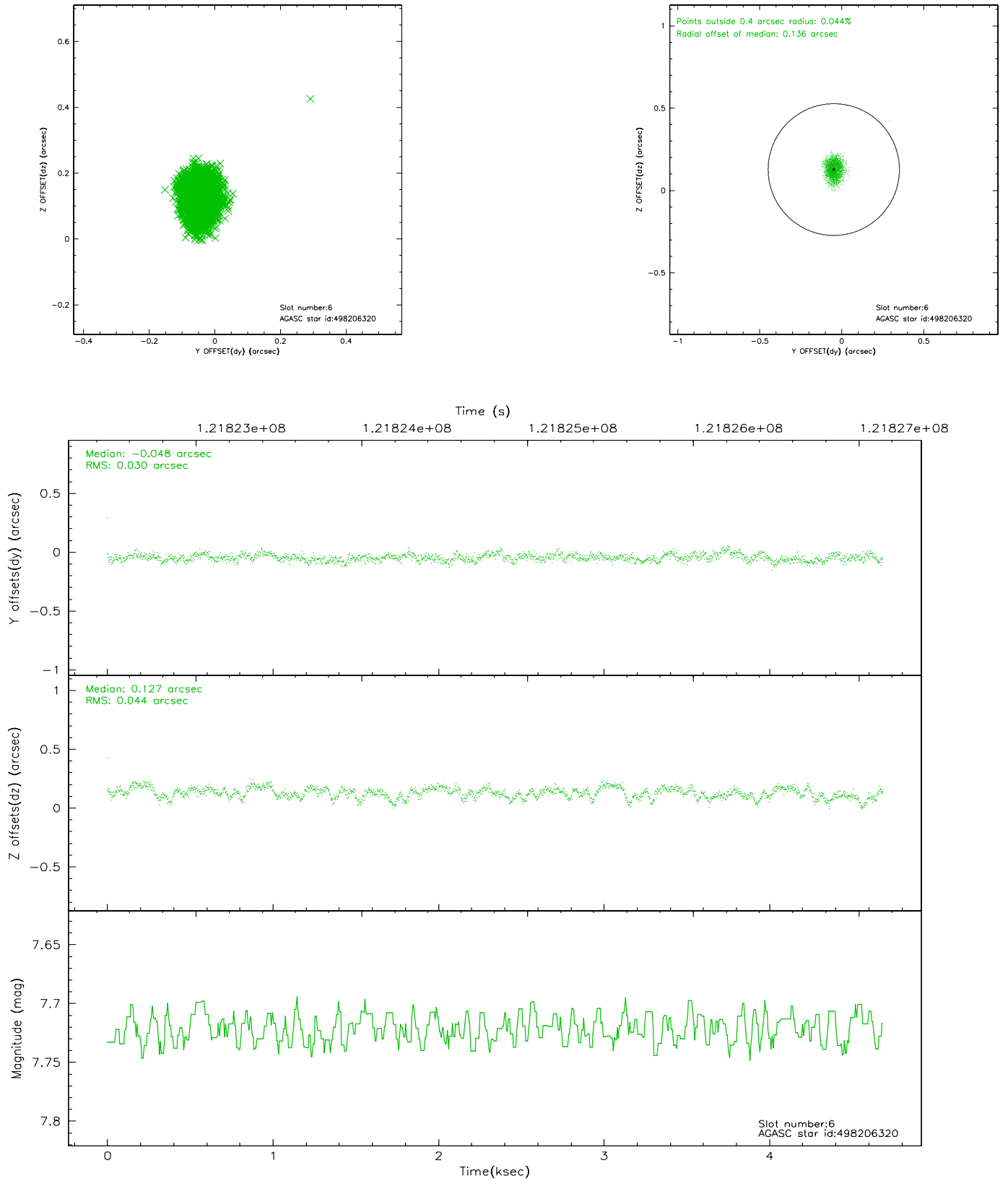
## 2.4.2 Slot 4



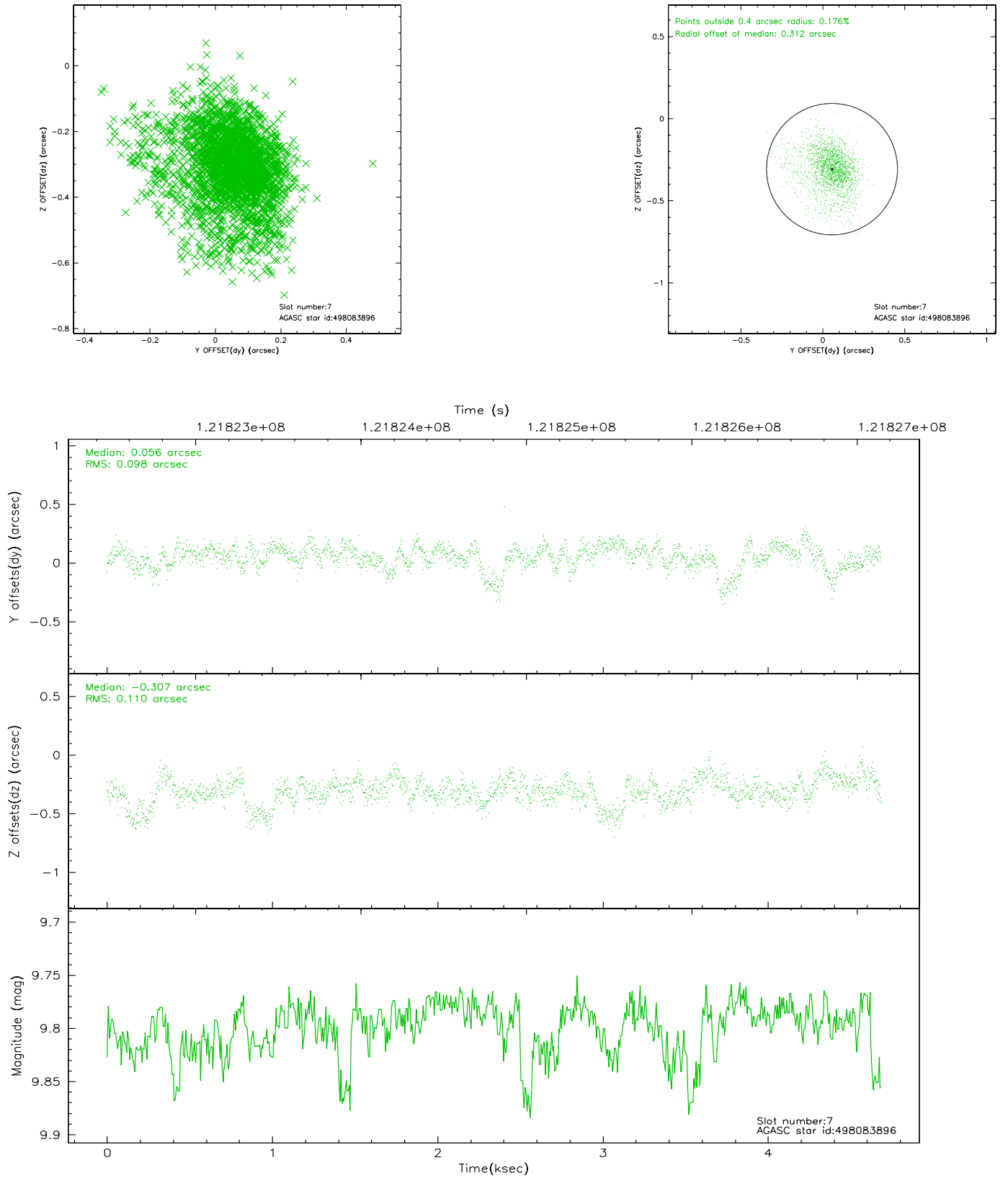
### 2.4.3 Slot 5



## 2.4.4 Slot 6

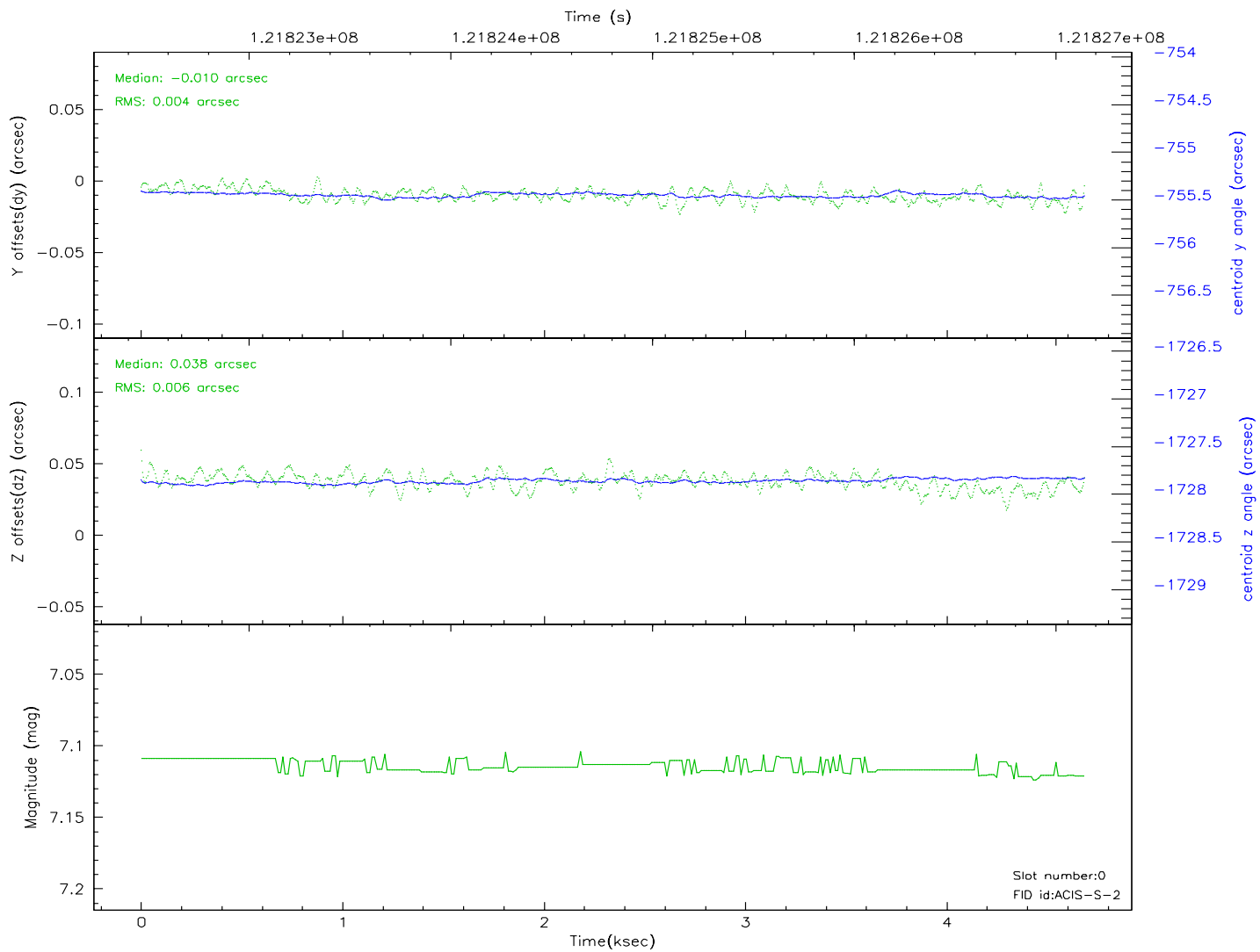
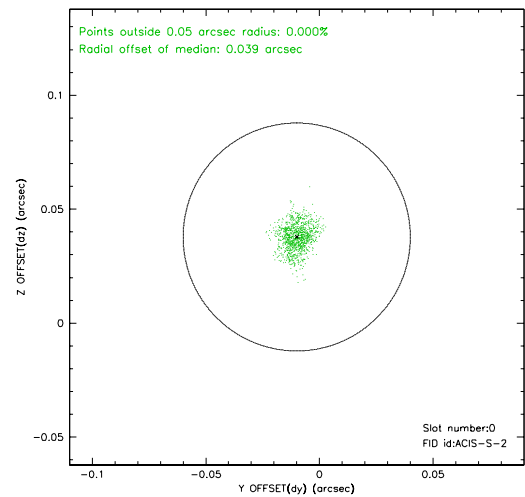
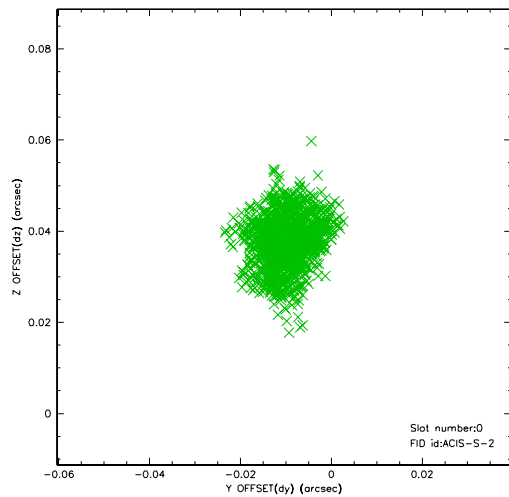


## 2.4.5 Slot 7

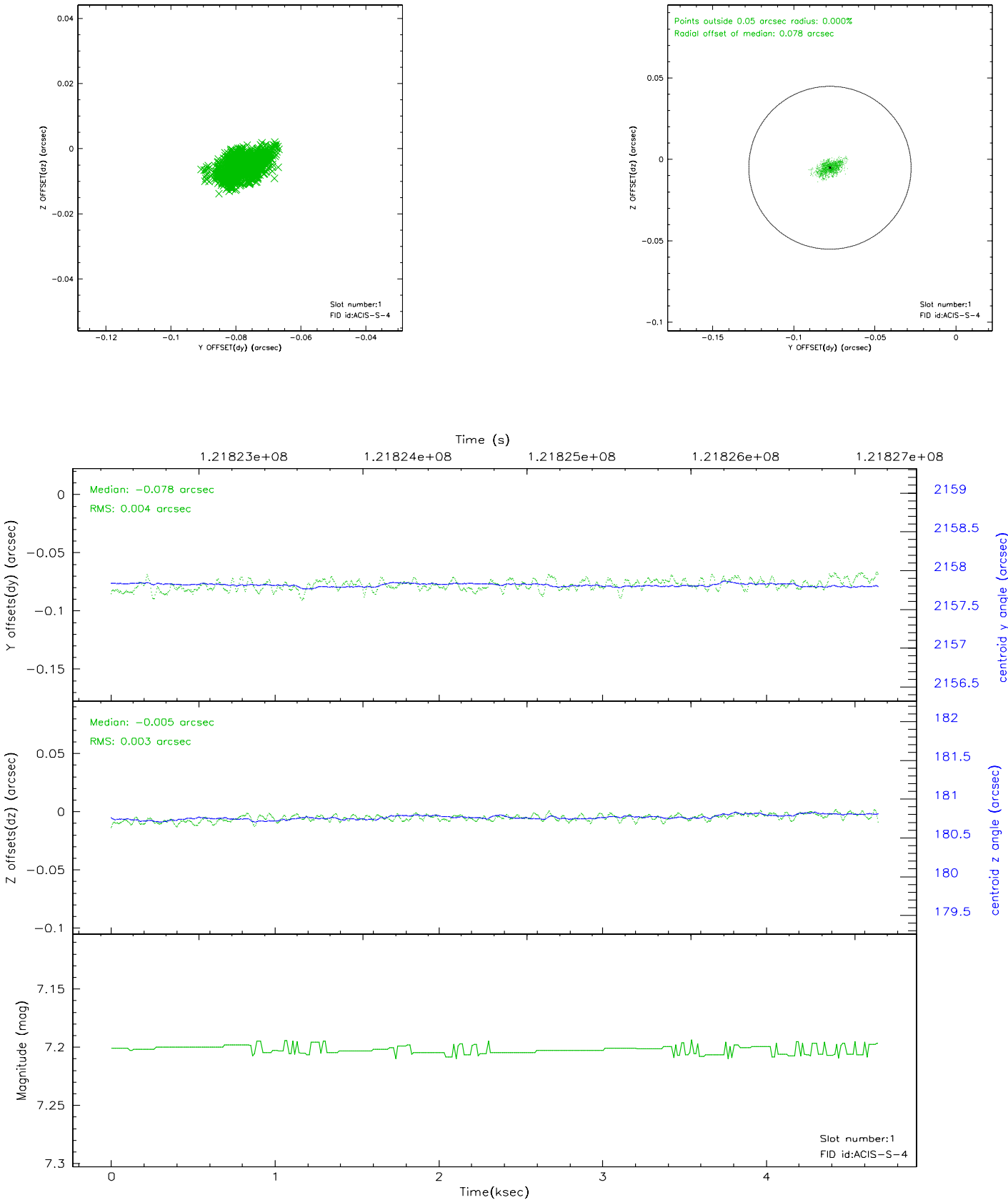


## 2.5 FID Slots

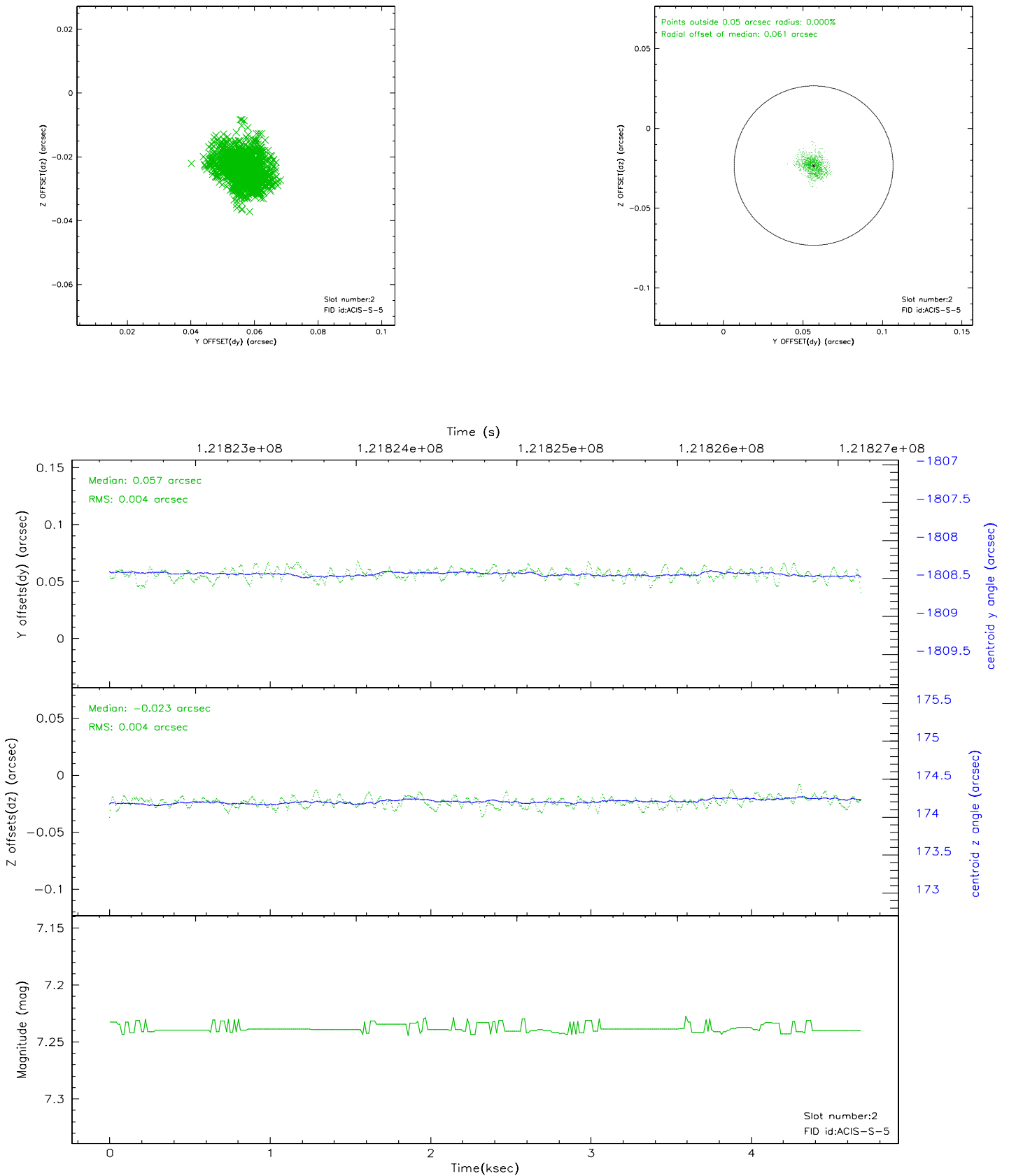
### 2.5.1 Slot 0



2.5.2 Slot 1

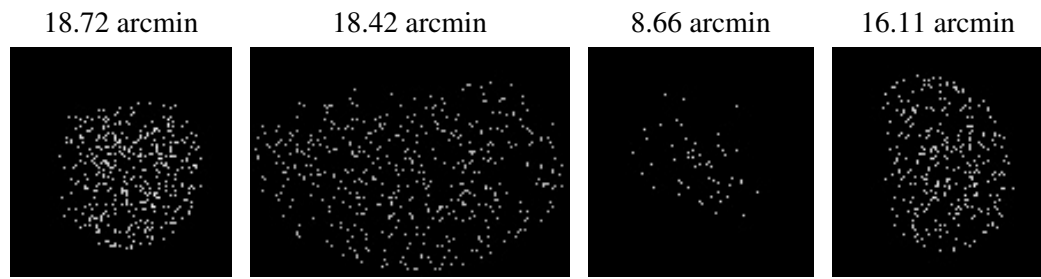


## 2.5.3 Slot 2





### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.01.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.256

## A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the first 2 ksec of this observation. The ACIS spectral response calibration for the front-illuminated chips is less accurate at these warmer temperatures than it is at -119.7 C. The back-illuminatd chips are not affected at the focal plane temperatures recorded for this observation. Users whose science objectives depend on the most accurate spectral response (i.e.: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.