

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 1961 - L2 Version 001  
Chandra X-Ray Center

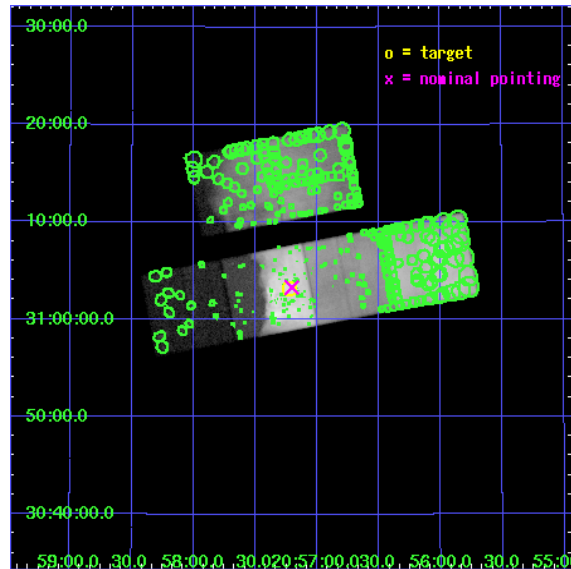
L2 Processing Date : Dec 16 2006

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# 1 Front

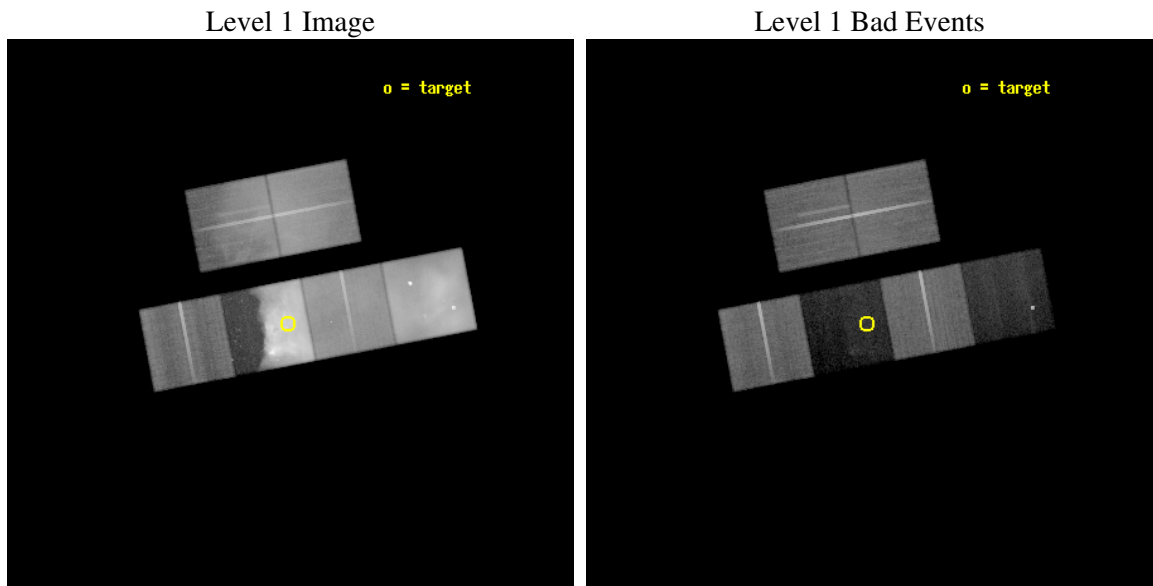
seq_num	500138
obs_id	1961
title	RESOLVING THE X-RAY STRUCTURE OF SHOCK-WAVE/ISM INTERACTIONS IN THE CYGNUS LOOP: PROBING RADIATIVE SHOCK PHYSICS
observer	Dr. Terrance Gaetz
object	CYGNUS LOOP XA
dtcycle	0
cycle	P
ra_targ	314.3055
dec_targ	31.05255
ra_nom	314.30117410936
dec_nom	31.055016920443
roll_nom	169.15885317391
revision	2
ontime	74944.000069797
livetime	73995.014015054
ontime2	74940.759099558
ontime3	74944.000069797
ontime5	74944.000069797
ontime6	74944.000069797
ontime7	74944.000069797
ontime8	74944.000069797
l2events	5150616



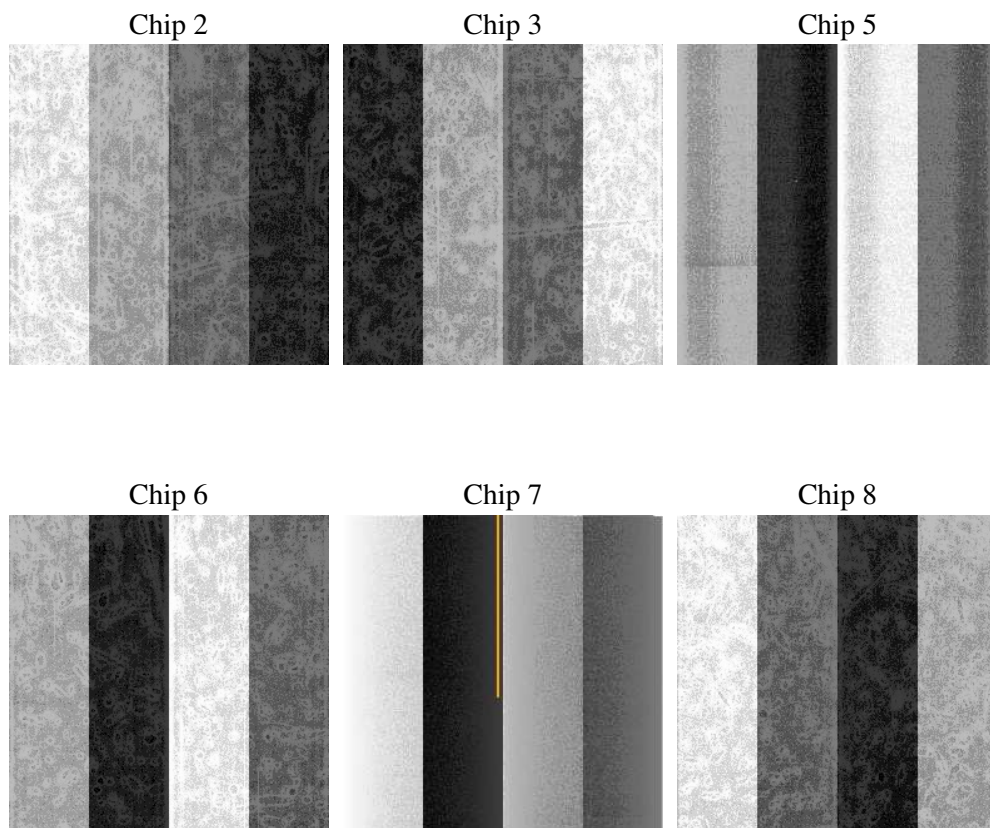
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2
ascdsver	7.6.9
caldbver	3.2.4
date	2006-12-16T00:24:41
revision	2

sched_exp_time	75000.000000
ontime	74951.363547146
ontime2	74948.122546986
ontime3	74954.604537323
ontime5	74954.604537323
ontime6	74954.604537323
ontime7	74951.363547146
ontime8	74954.604537323
l1events	6806817

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	914605	624957	1894136	1054346	1921950	396823
rejected events	362781	320195	67099	323084	42874	308632
rejected %	39%	51%	3%	30%	2%	77%

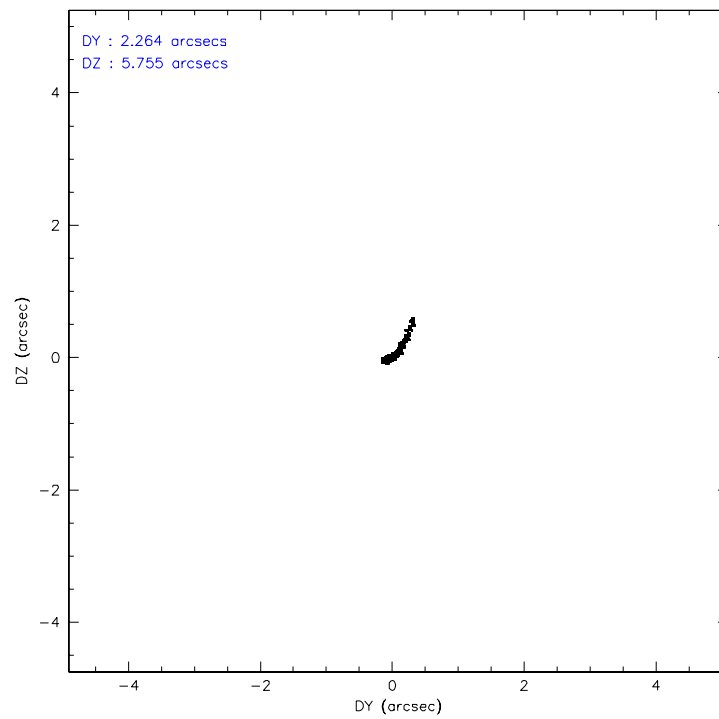
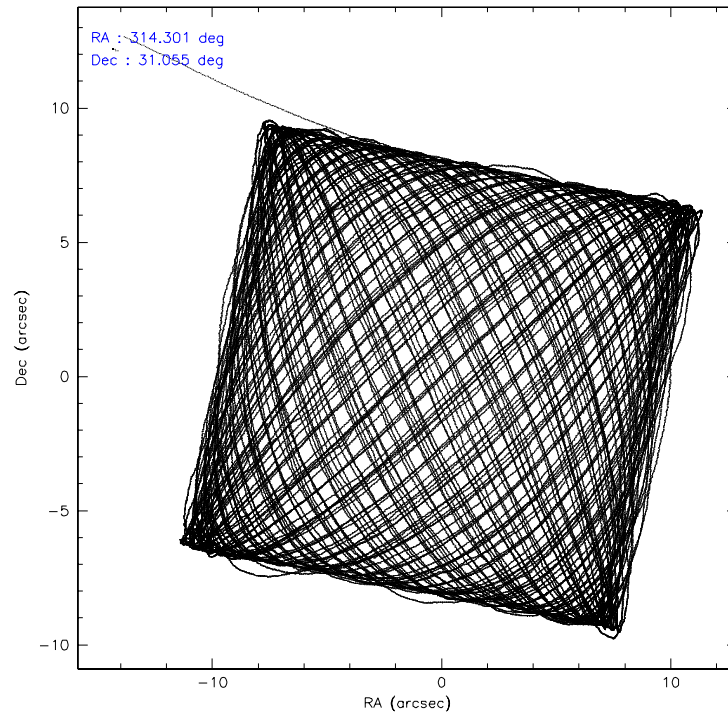
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	495858	272743	852070	663896	916450	27197
	54%	43%	44%	62%	47%	6%
grade 1 events	2141	1198	1429	2489	838	243
	0%	0%	0%	0%	0%	0%
grade 2 events	34961	18774	518453	42940	448482	18960
	3%	3%	27%	4%	23%	4%
grade 3 events	8115	5160	150184	9826	184471	10086
	0%	0%	7%	0%	9%	2%
grade 4 events	8242	4841	148724	9530	178332	9306
	0%	0%	7%	0%	9%	2%
grade 5 events	3771	3302	20751	4275	17173	5329
	0%	0%	1%	0%	0%	1%
grade 6 events	4707	3290	157855	5165	151488	22645
	0%	0%	8%	0%	7%	5%
grade 7 events	356810	315649	44670	316225	24716	303057
	39%	50%	2%	29%	1%	76%

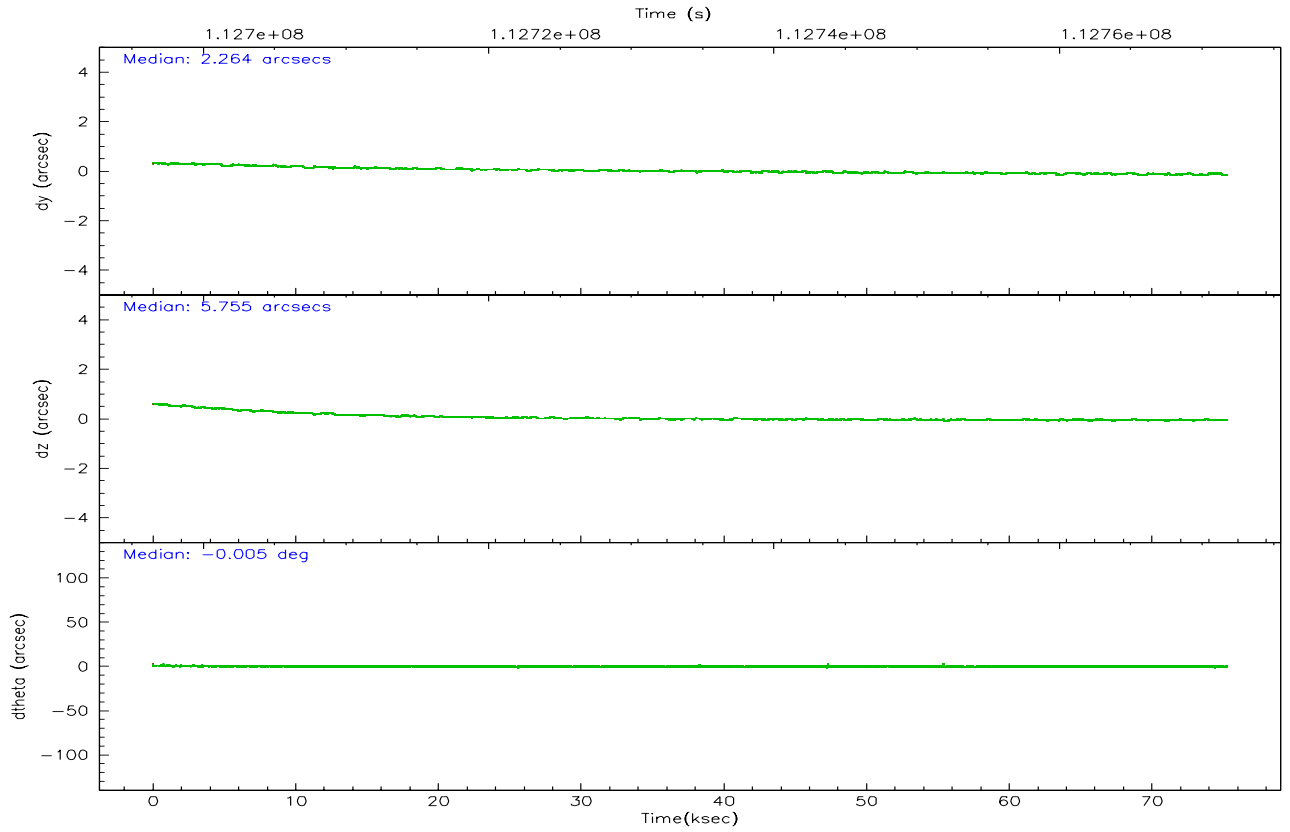
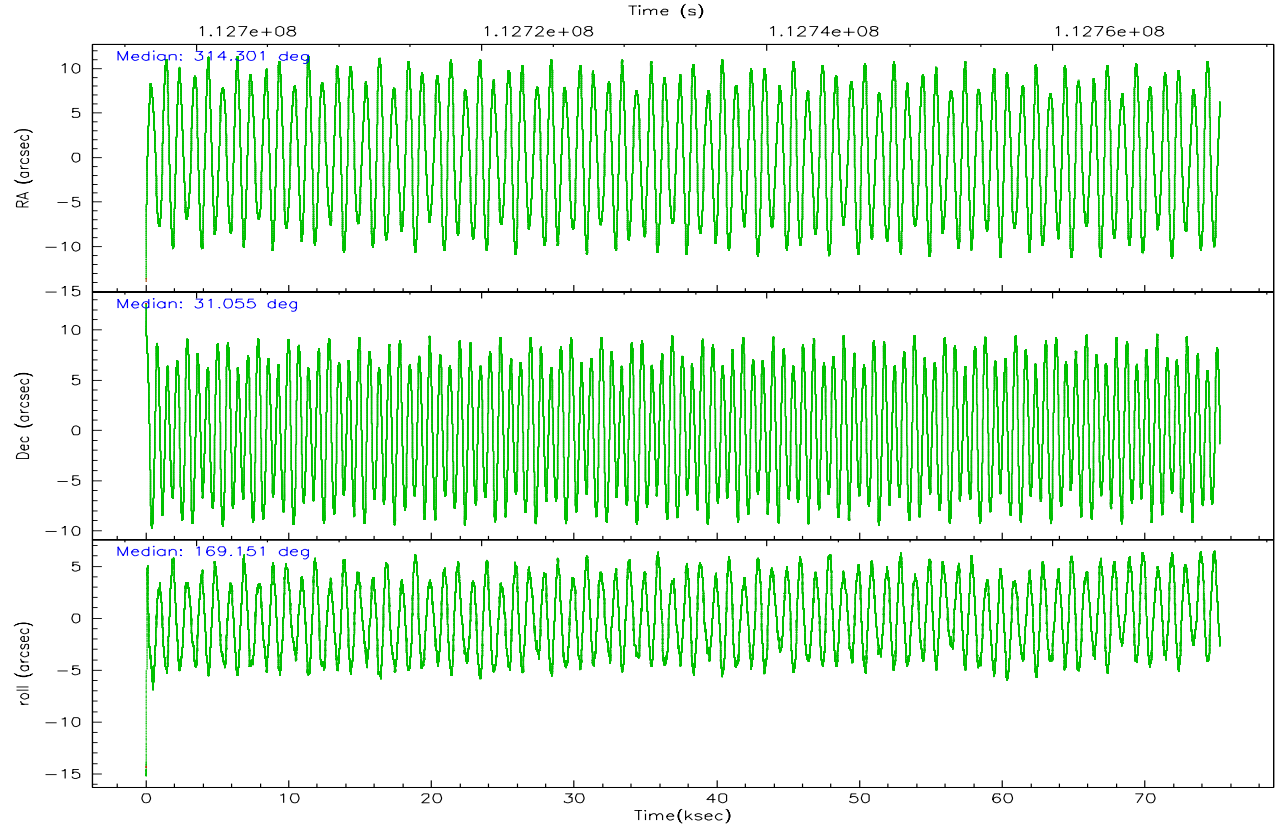


## 2.2 Compared Parameters

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	314.331142	314.3011741093615	Subarray requested	NONE	NONE
Pointing Dec	31.064242	31.05501692044297	Alternating exposures requested	N	N
Pointing Roll	168.986766	169.1588531739066	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	112696758.184000	112695738.93666			
Observation start date	2001-07-28T08:38:14	2001-07-28T08:22:18			
Observation end time	112771758.184000	112772662.62719			
Observation end date	2001-07-29T05:28:14	2001-07-29T05:44:22			
Read mode	TIMED	TIMED			

## 2.3 Aspect



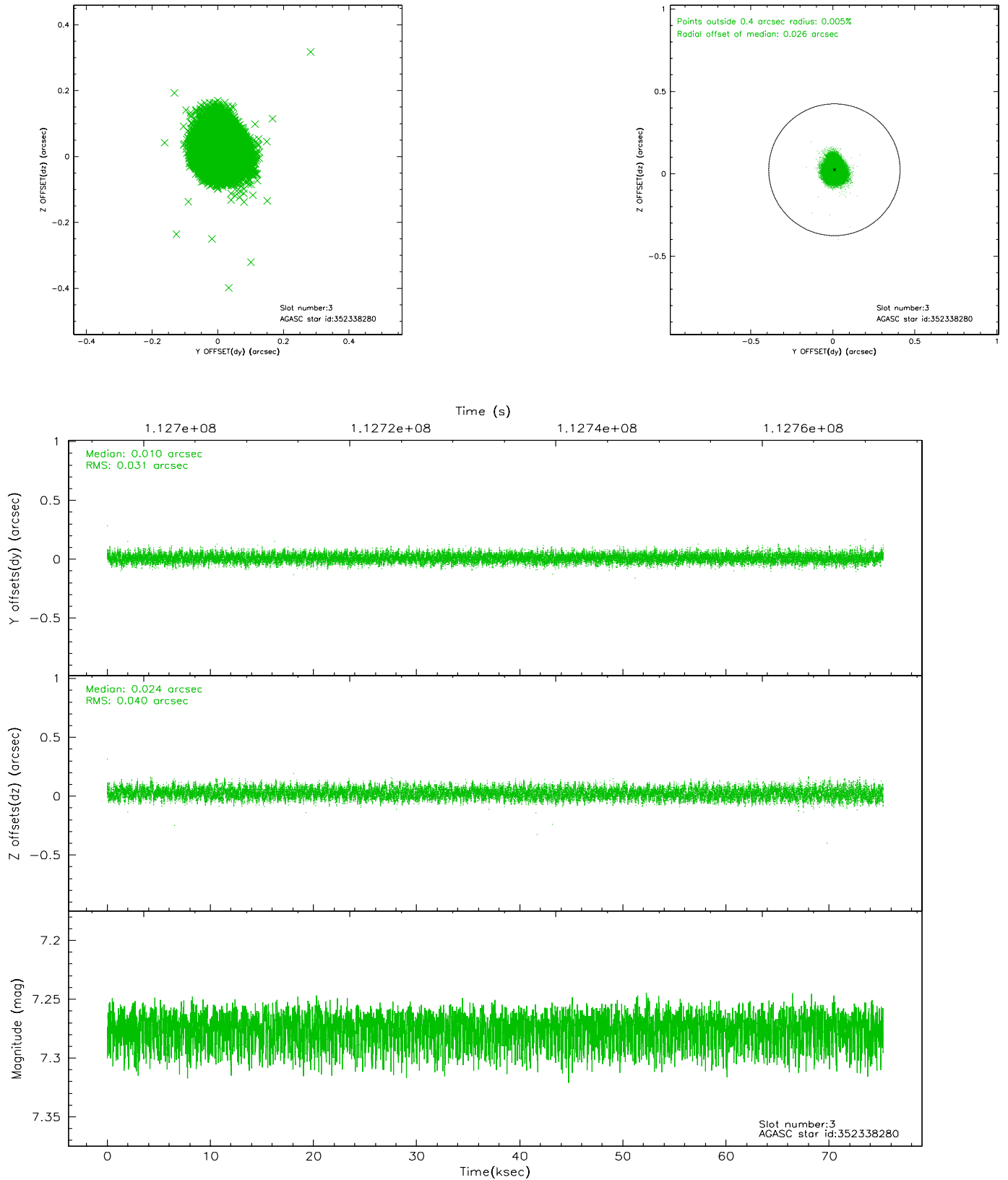


### Slot Statistics

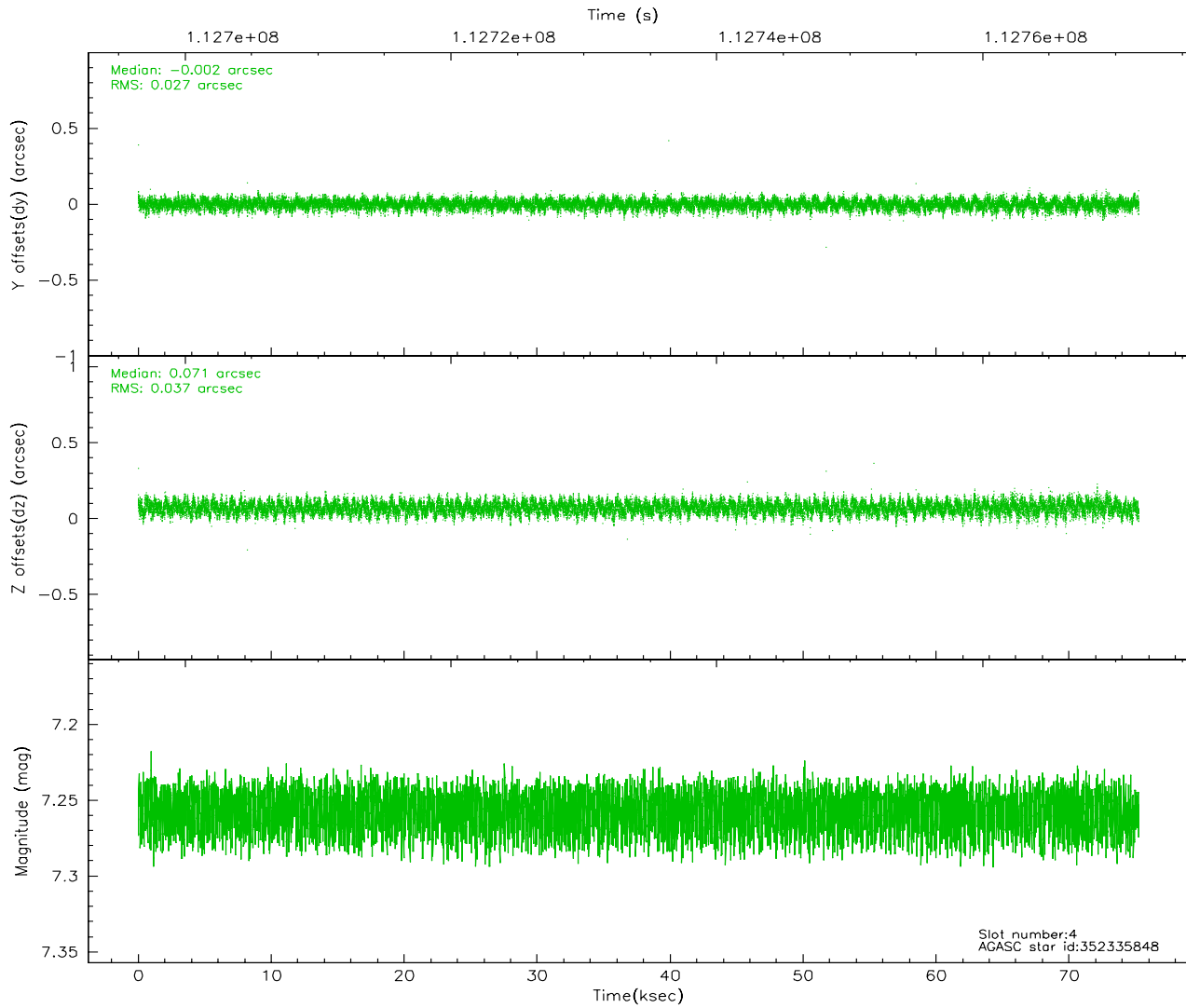
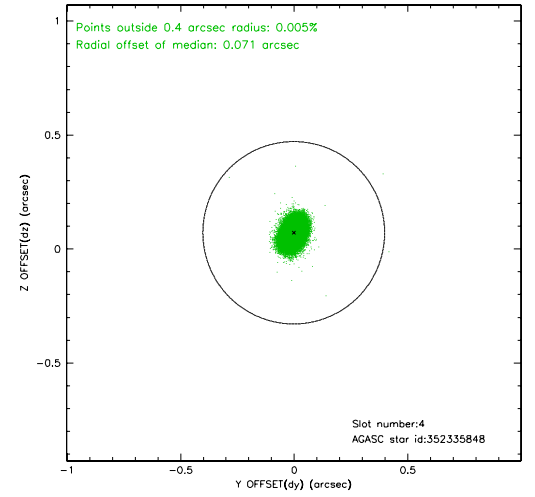
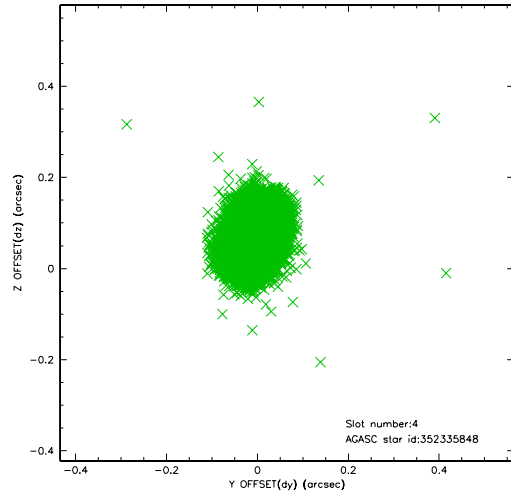
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	18358	-0.031	0.020	0.007	0.012	0.000000	0.000000	-754.90	-1726.95
1	FID	ACIS-S-4	7.20	18353	-0.062	0.010	0.005	0.009	0.000000	0.000000	2158.33	181.65
2	FID	ACIS-S-5	7.24	18357	0.062	-0.021	0.006	0.011	0.000000	0.000000	-1807.78	175.13
3	GUIDE	352338280	7.27	36712	0.010	0.024	0.055	0.086	314.512904	31.299840	-386.41	-939.23
4	GUIDE	352335848	7.26	36716	-0.002	0.071	0.049	0.080	314.729658	31.476740	-916.63	-1693.10
5	GUIDE	352336240	8.74	36634	-0.041	0.031	0.071	0.112	314.097220	30.851920	563.72	888.26
6	GUIDE	352331792	8.94	36699	-0.059	-0.014	0.074	0.122	313.905878	30.767958	1087.88	1296.54
7	GUIDE	352341328	9.10	36702	0.097	-0.112	0.096	0.152	314.623801	30.398894	-1349.46	2176.70

## 2.4 Star Slots

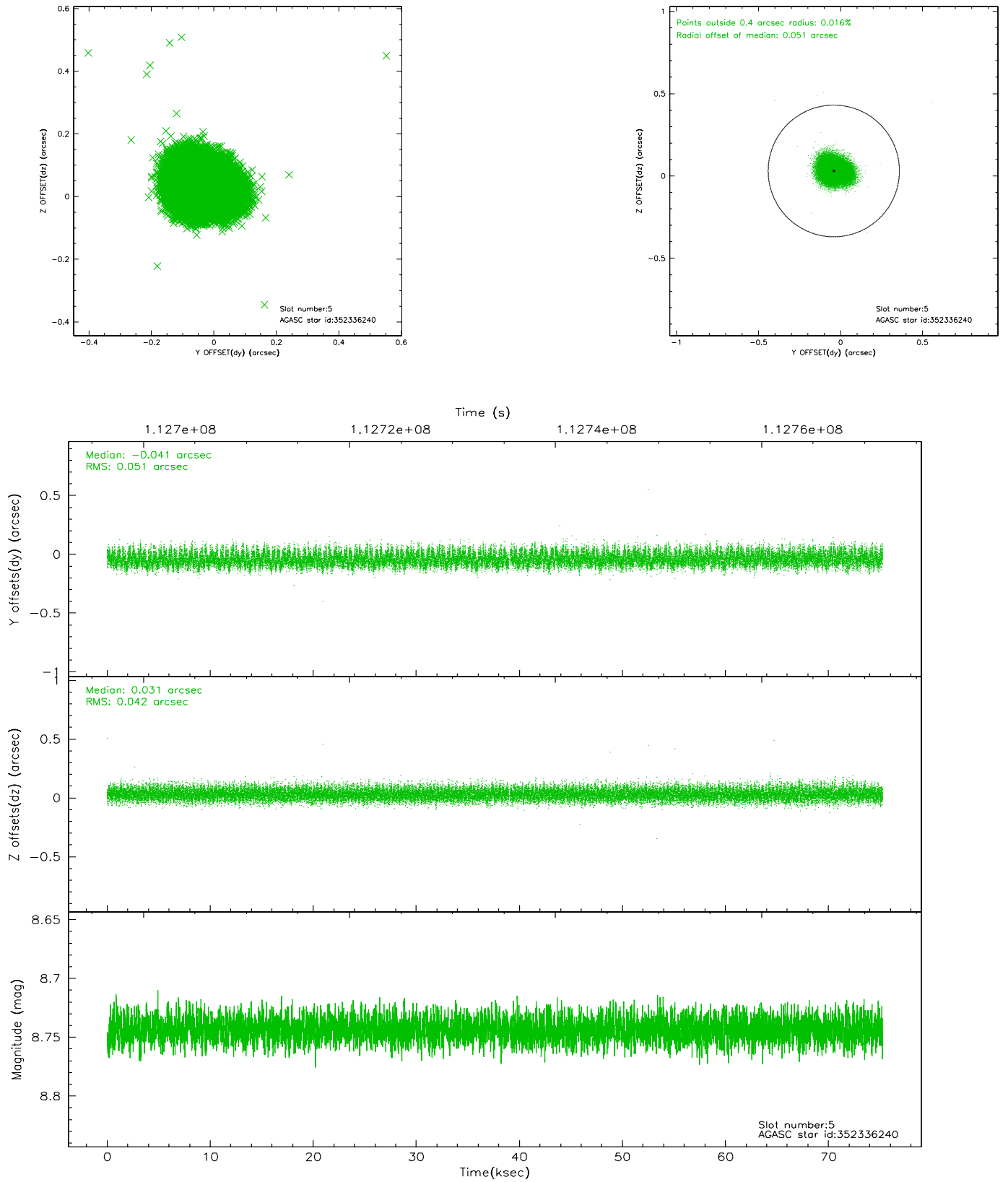
### 2.4.1 Slot 3



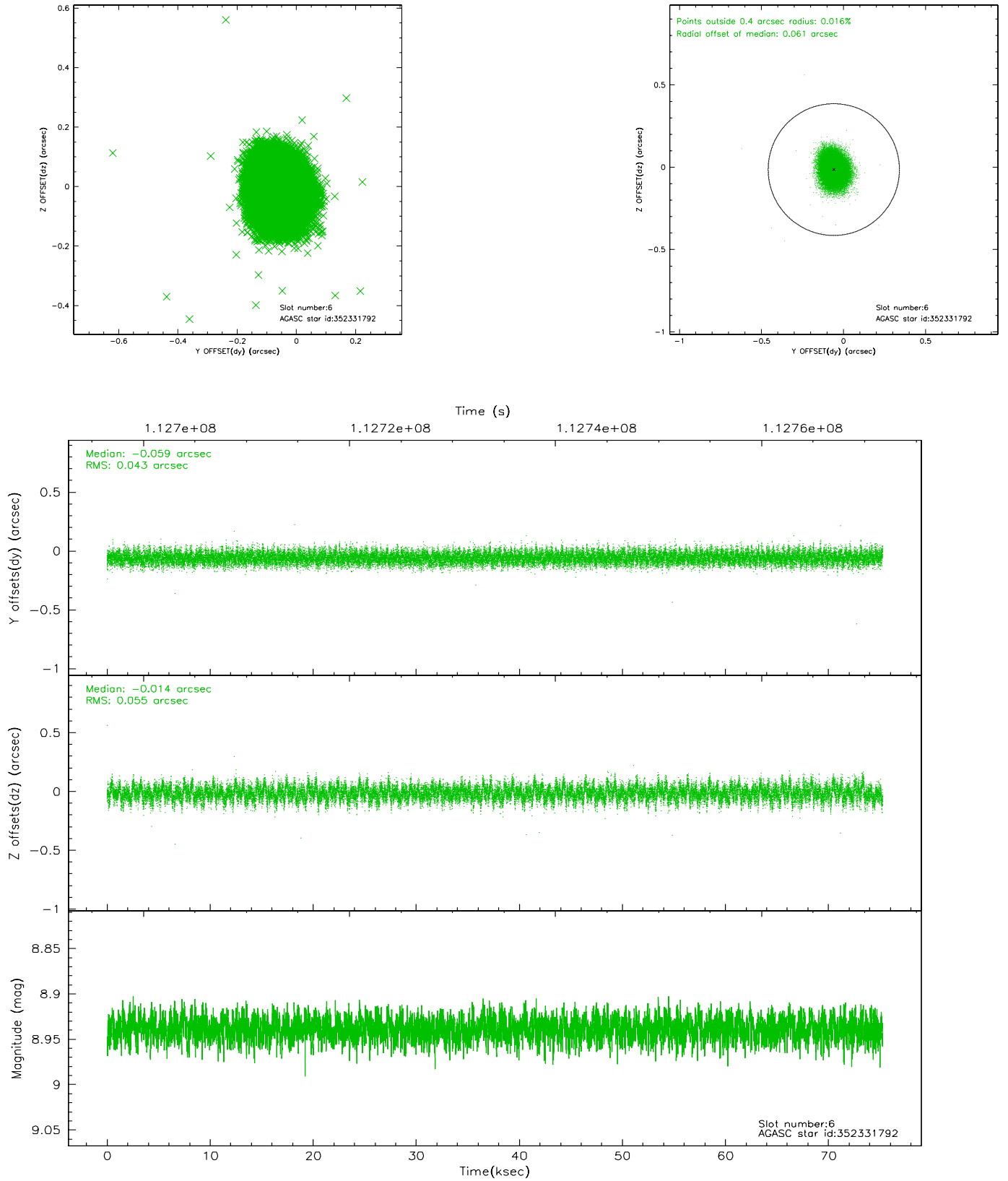
## 2.4.2 Slot 4



### 2.4.3 Slot 5

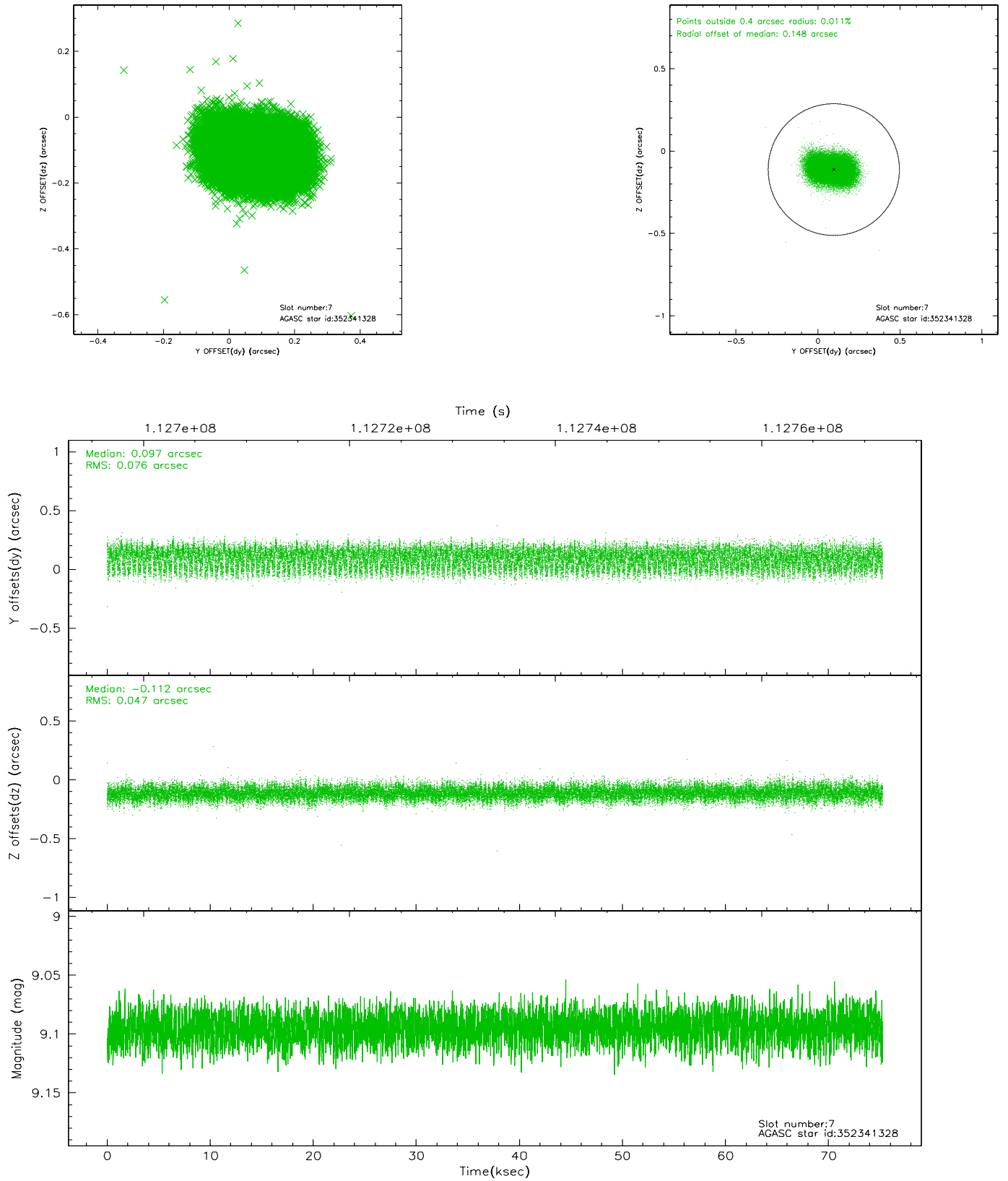


## 2.4.4 Slot 6



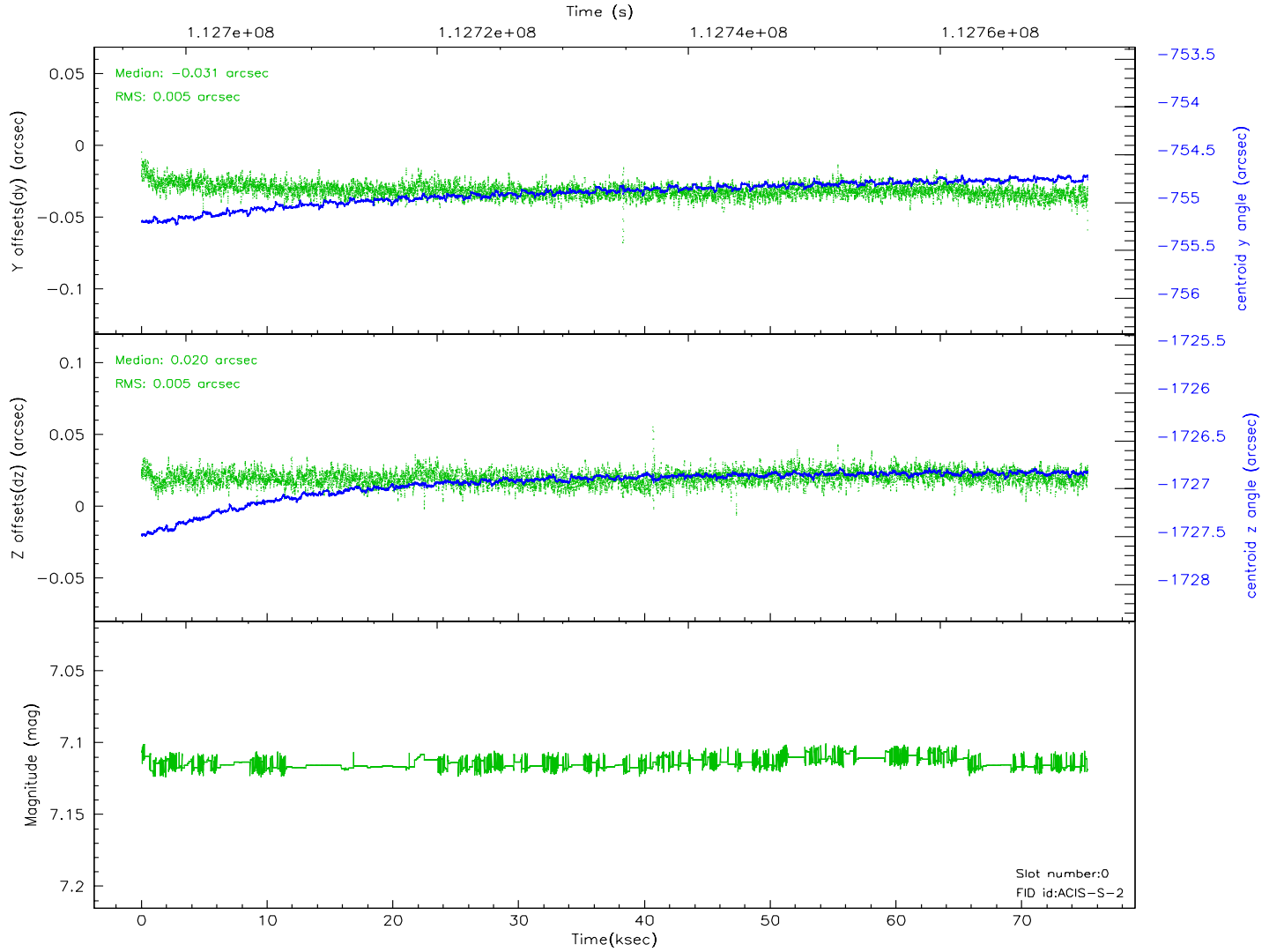
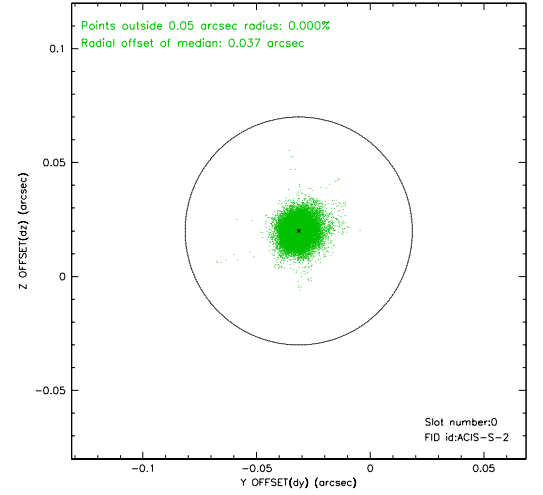
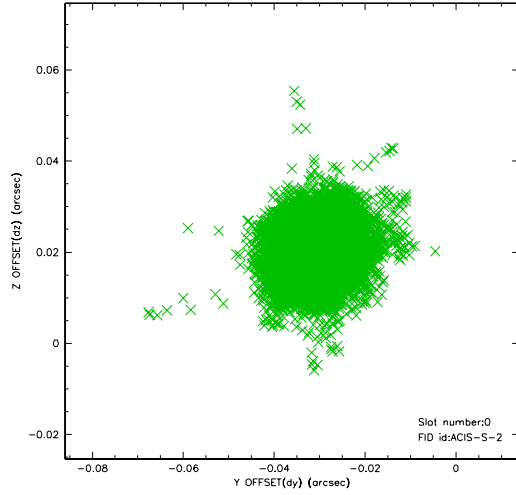


## 2.4.5 Slot 7

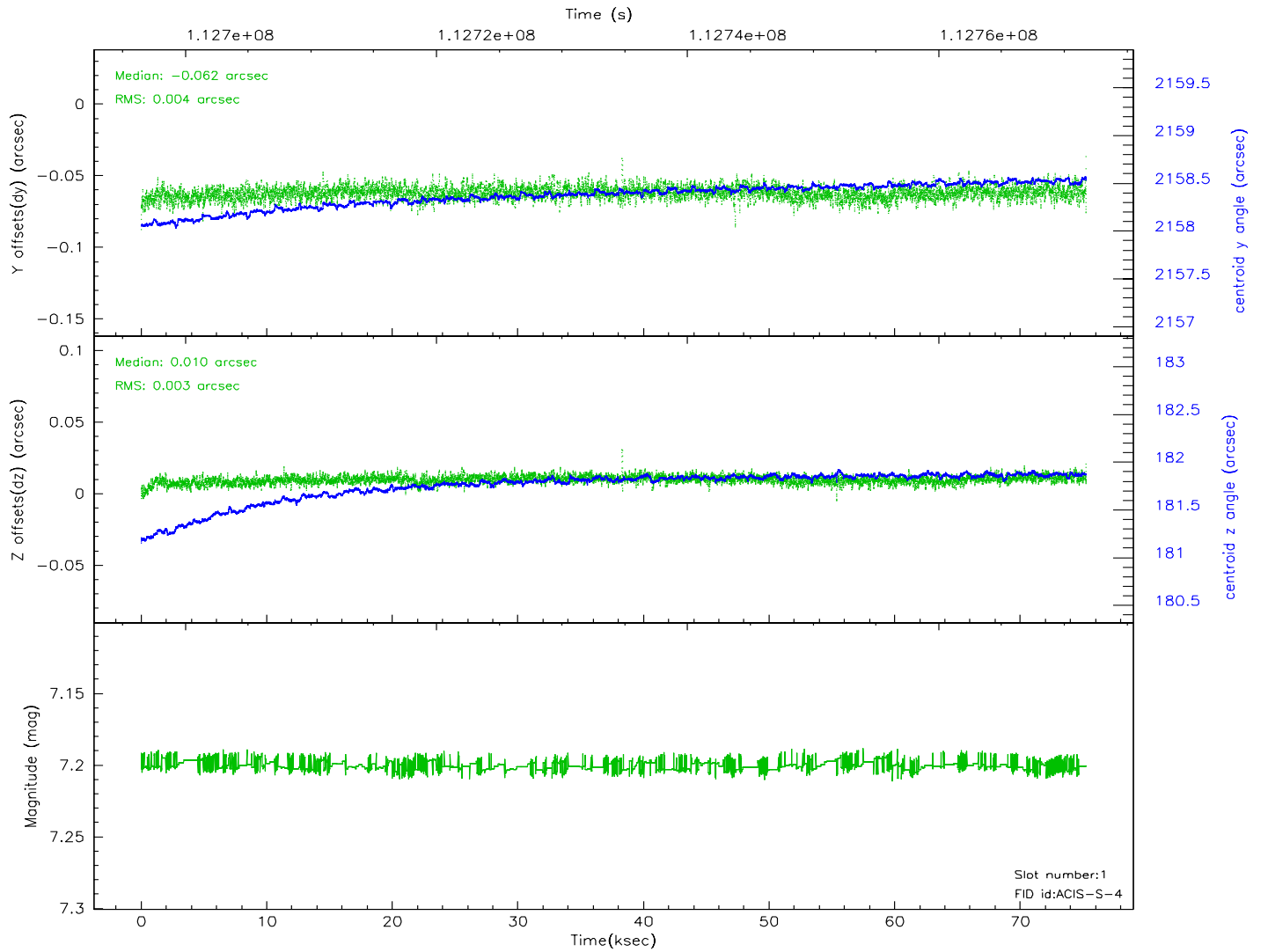
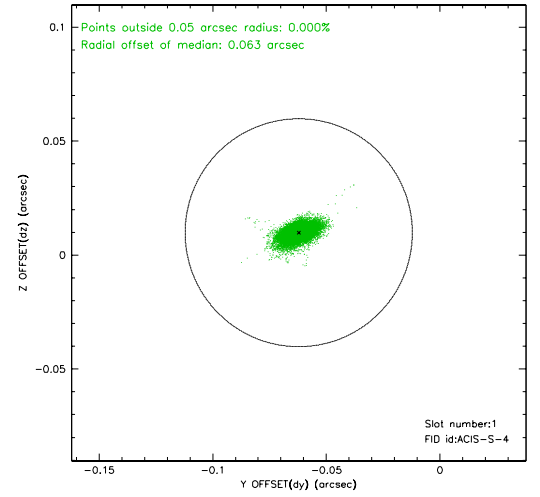
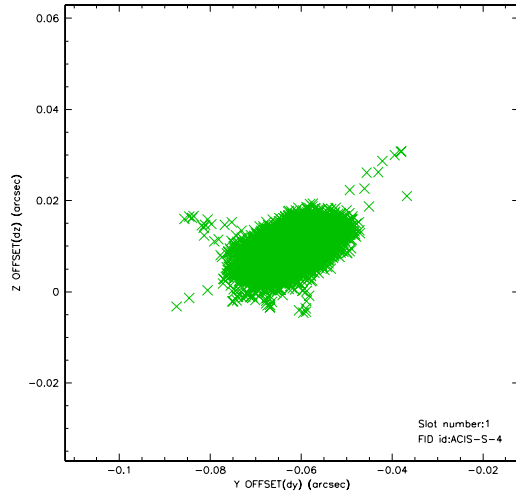


## 2.5 FID Slots

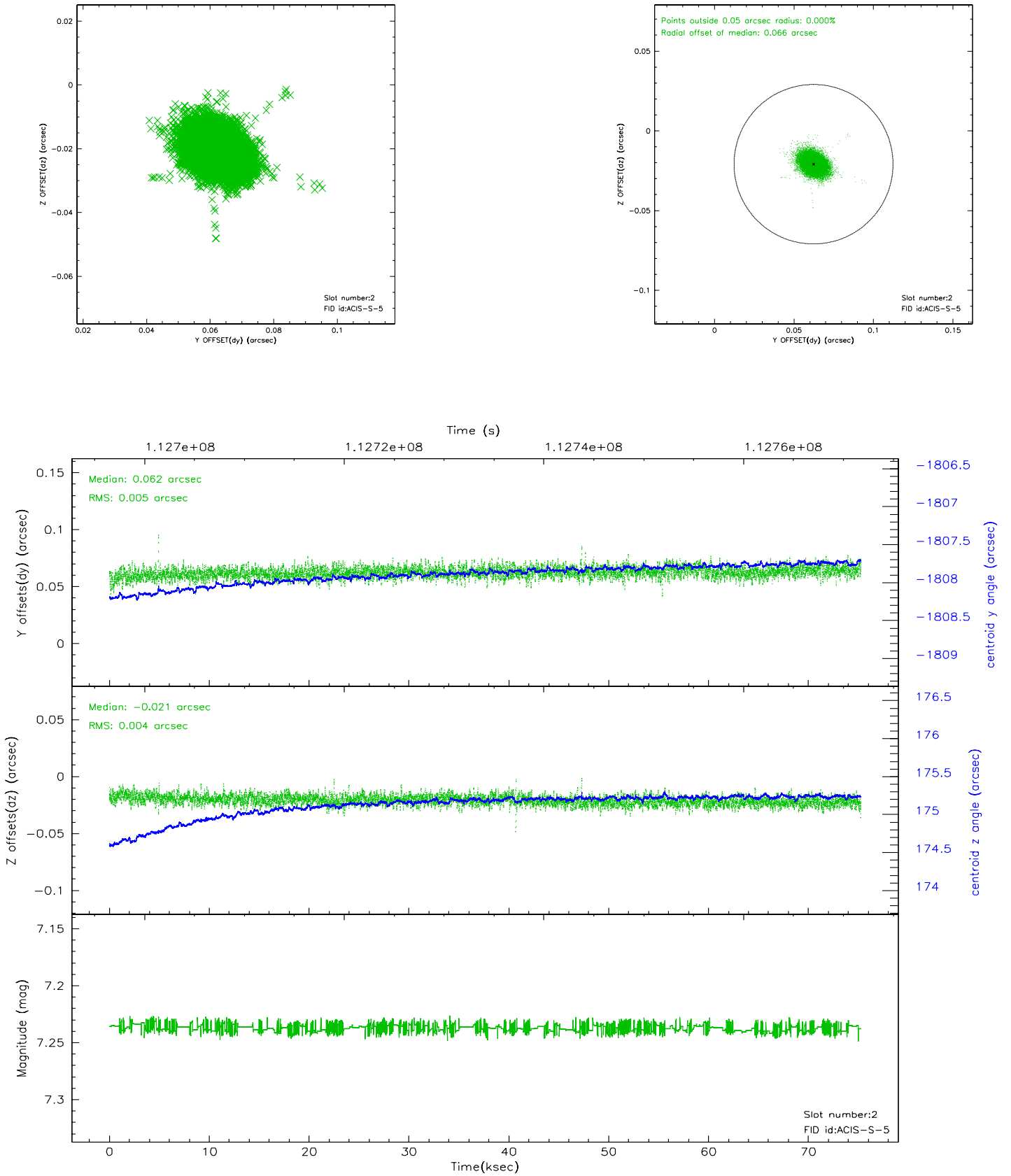
### 2.5.1 Slot 0



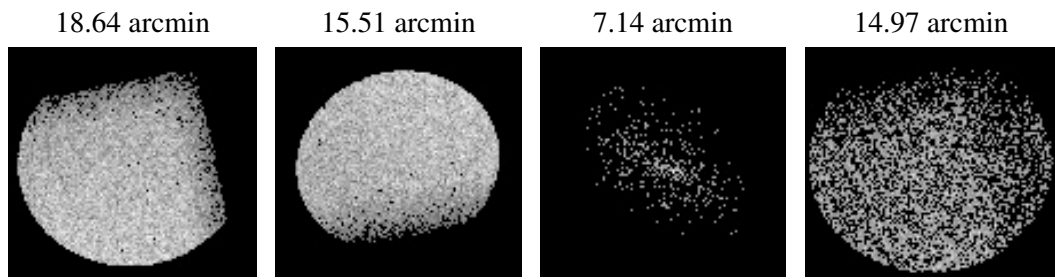
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.12.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	74.947

### A.2 Comments