

# V&V Reference Report

## L2 ASCDS Version : 7.6.7

Observation 5005 - L2 Version 002  
Chandra X-Ray Center

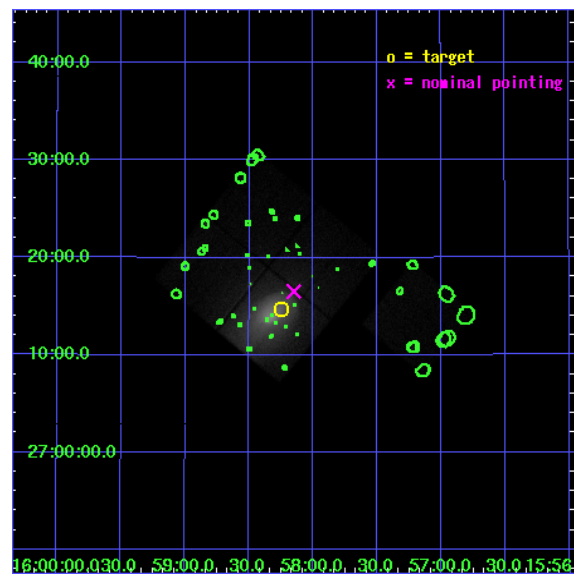
L2 Processing Date: Feb 28 2006

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# 1 Front

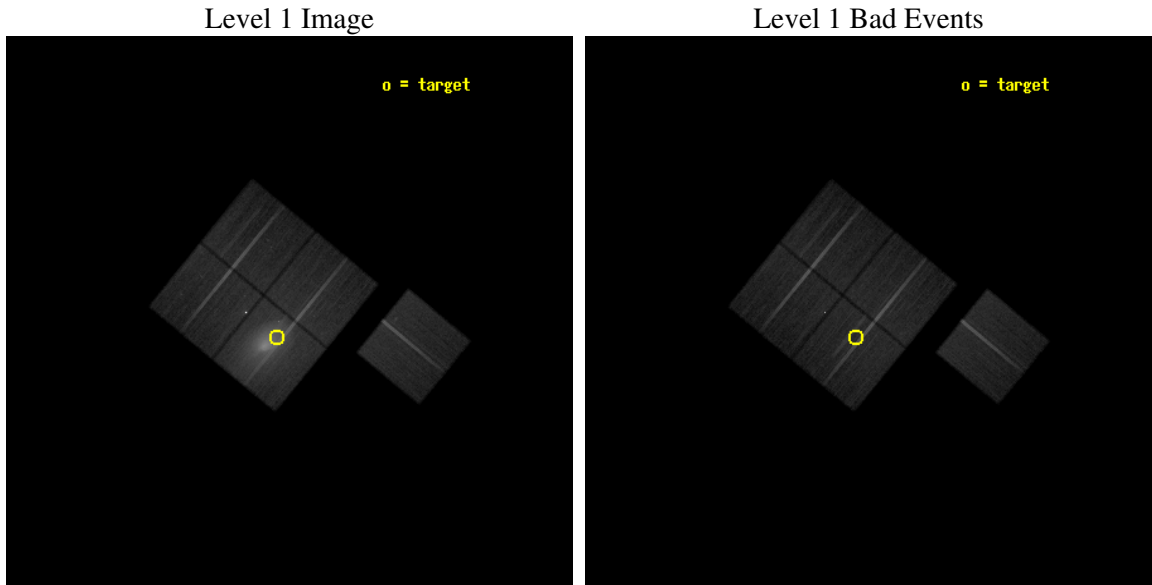
seq_num	800448
obs_id	5005
title	Cluster studies: Determination of H0/q0
observer	DR. LEON VANSPEYBROECK
object	A2142
dtcycle	0
cycle	P
ra_targ	239.562917
dec_targ	27.245278
ra_nom	239.53775469755
dec_nom	27.275543632935
roll_nom	129.41310880295
revision	2
ontime	45154.517952681
livedtime	44564.540933356
ontime0	45154.517982453
ontime1	45154.517942667
ontime2	45157.658913046
ontime3	45154.517952681
ontime6	45154.517912835
l2events	487252



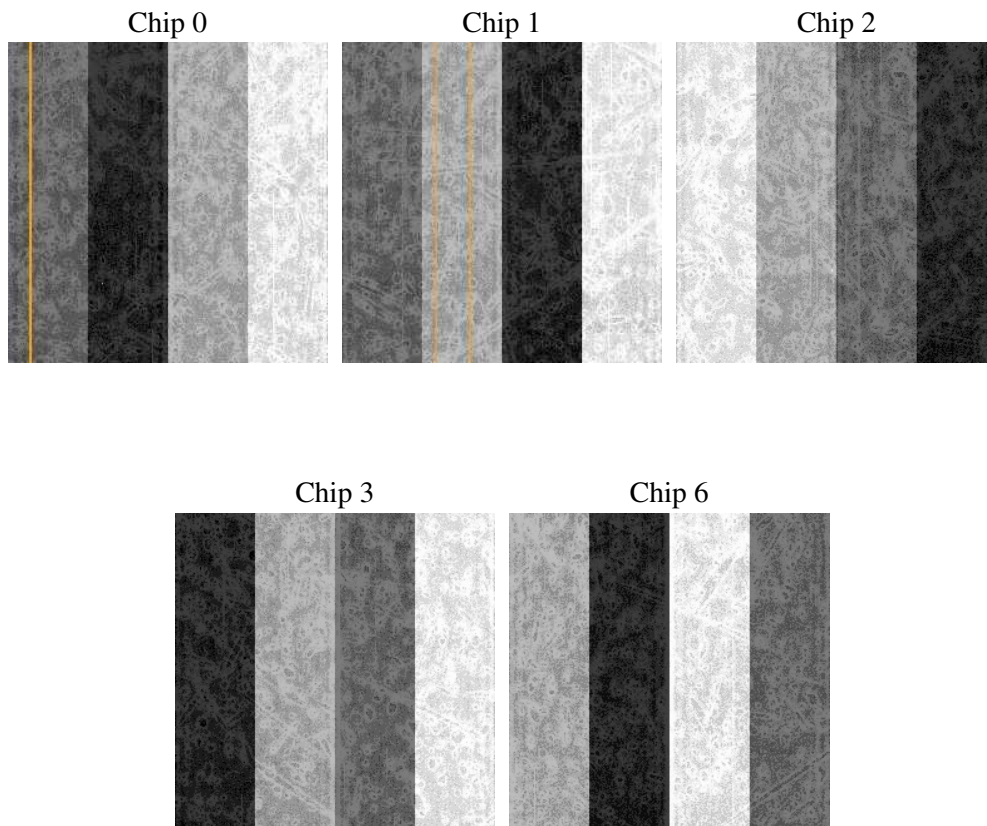
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2
ascdsver	7.6.7
caldsver	3.2.1
date	2006-02-28T22:41:26
revision	2

sched_exp_time	45000.000000
ontime	45192.861013442
ontime0	45192.861063123
ontime1	45192.861023337
ontime2	45196.001993716
ontime3	45192.861013442
ontime6	45192.860993505
l1events	1798494

### 2.1.4 Events

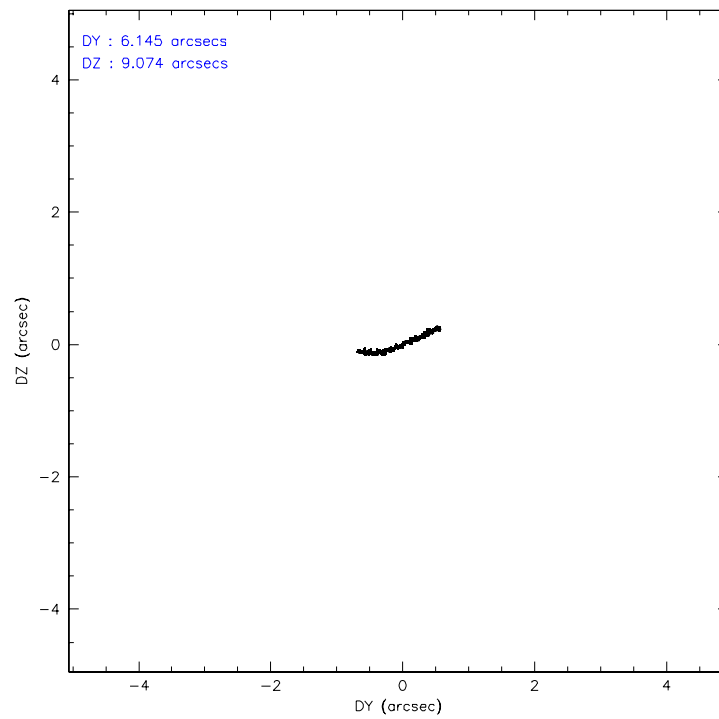
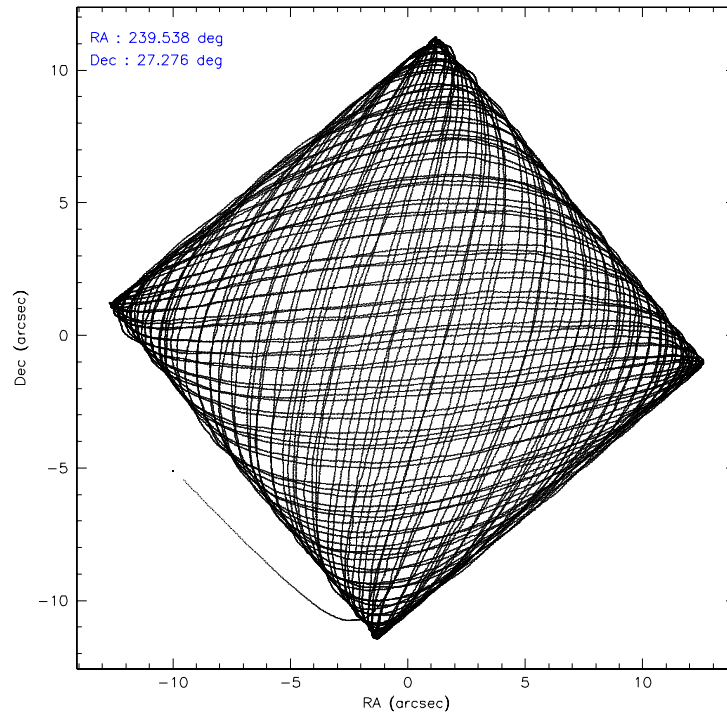
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	271019	322198	318374	596201	290702
rejected events	236584	241259	267383	267518	258856
rejected %	87%	74%	83%	44%	89%

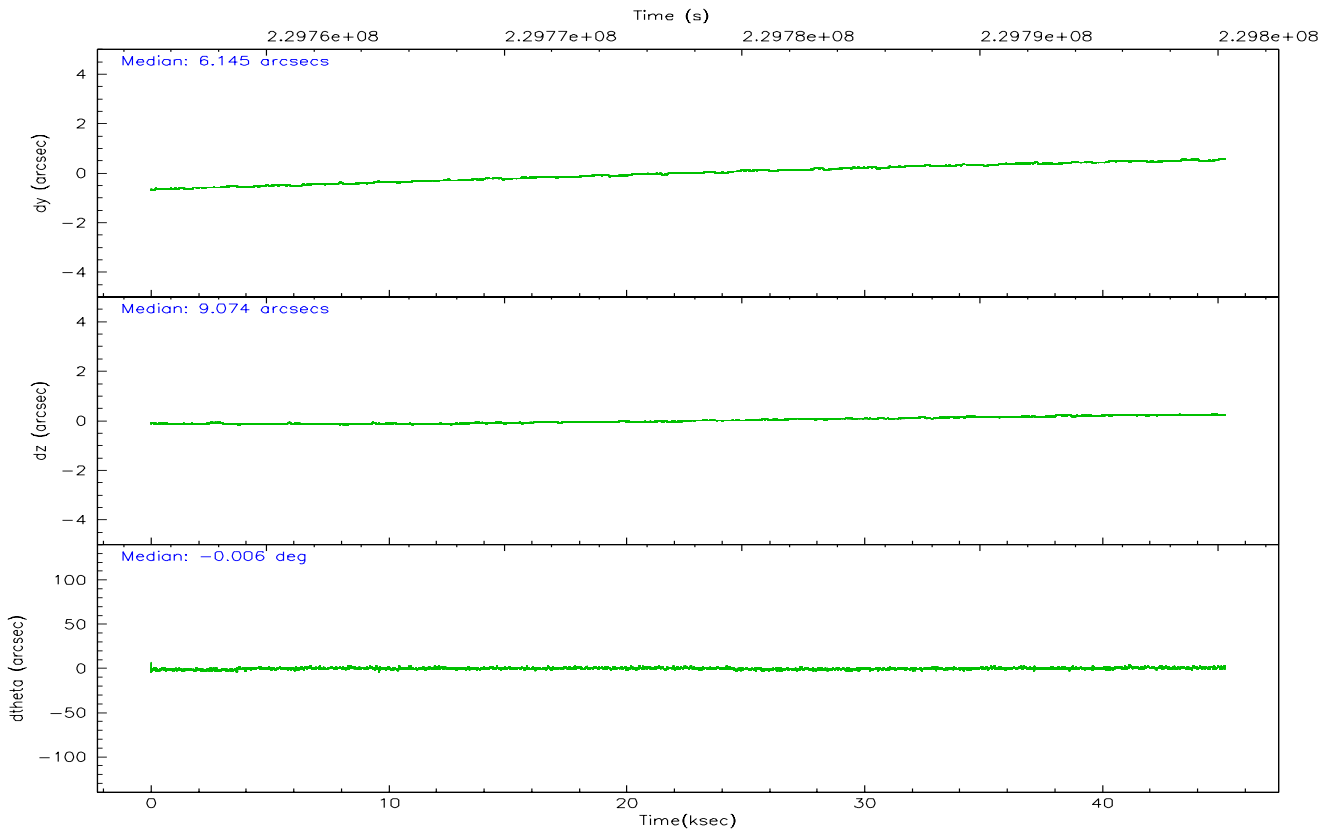
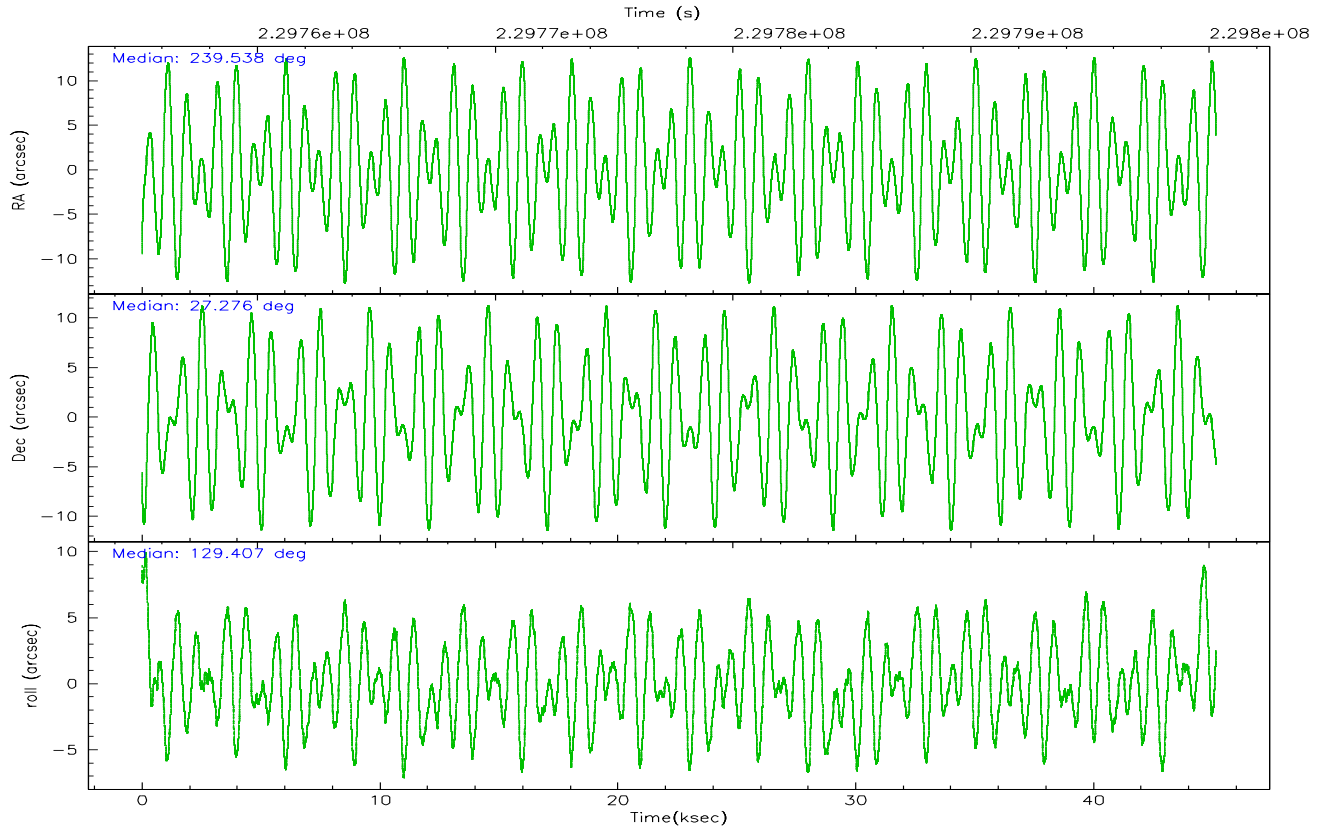
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	14773	48699	28638	254250	12240
	5%	15%	8%	42%	4%
grade 1 events	195	2299	270	1431	124
	0%	0%	0%	0%	0%
grade 2 events	7150	12932	8971	36042	6532
	2%	4%	2%	6%	2%
grade 3 events	3517	5608	3765	12632	3435
	1%	1%	1%	2%	1%
grade 4 events	3234	5520	3774	12656	3287
	1%	1%	1%	2%	1%
grade 5 events	10217	11830	9494	12391	11391
	3%	3%	2%	2%	3%
grade 6 events	5788	8241	5889	13370	6388
	2%	2%	1%	2%	2%
grade 7 events	226145	227069	257573	253429	247305
	83%	70%	80%	42%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-01236	ACIS-01236	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	239.566616	239.5377546975509	Alternating exposures requested	N	N
Pointing Dec	27.266025	27.27554363293548	Primary exposure time	0.000000	3.1
Pointing Roll	129.191199	129.4131088029543			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-224.592463	-224.5962429424501			
SIM translation stage offset (mm)	-9	-8.996210060479569			
Observation start time	229755310.184000	229754309.37414			
Observation start date	2005-04-13T04:54:06	2005-04-13T04:38:29			
Observation end time	229800310.184000	229800769.55125			
Observation end date	2005-04-13T17:24:06	2005-04-13T17:32:49			
Read mode	TIMED	TIMED			

## 2.3 Aspect



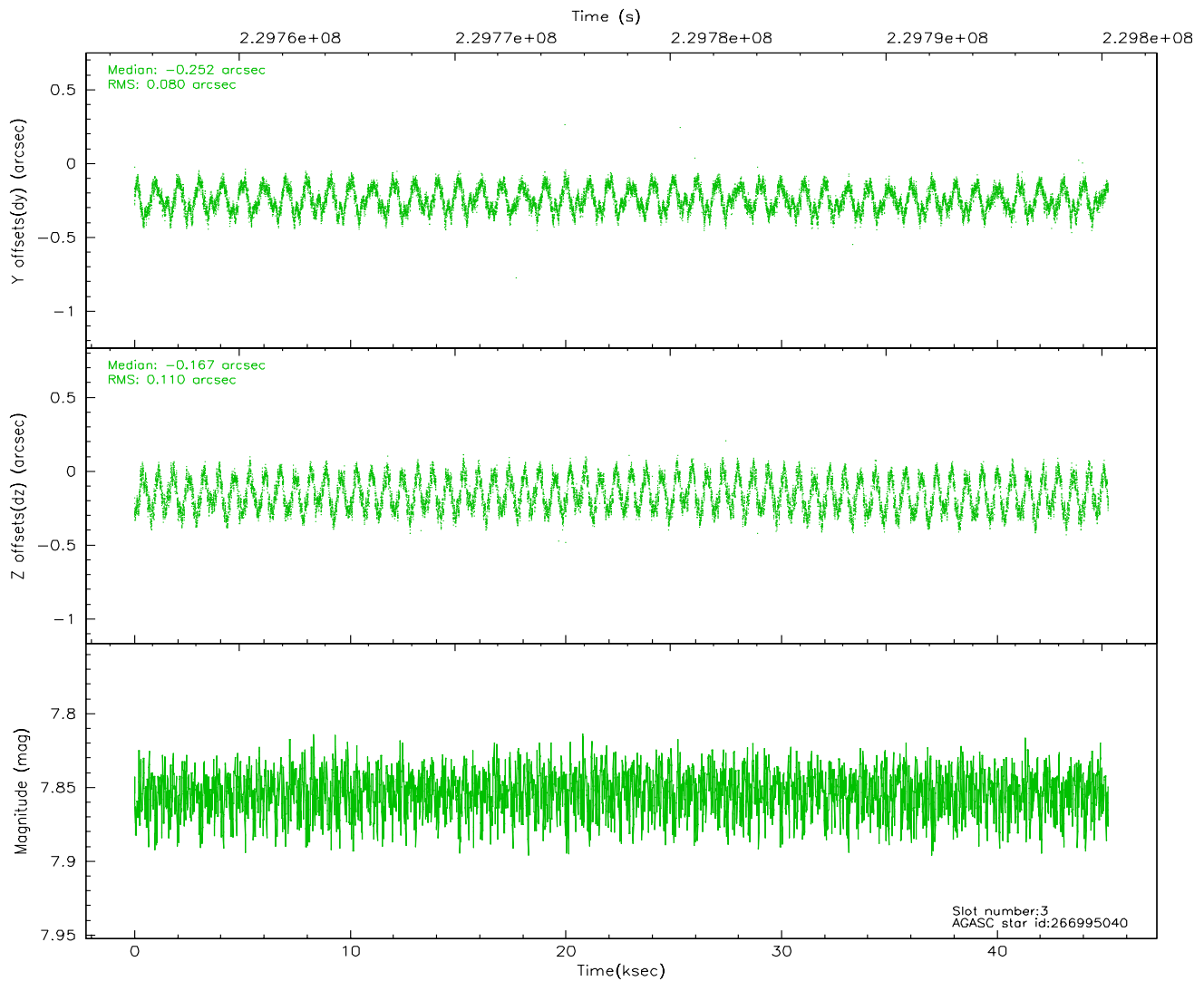
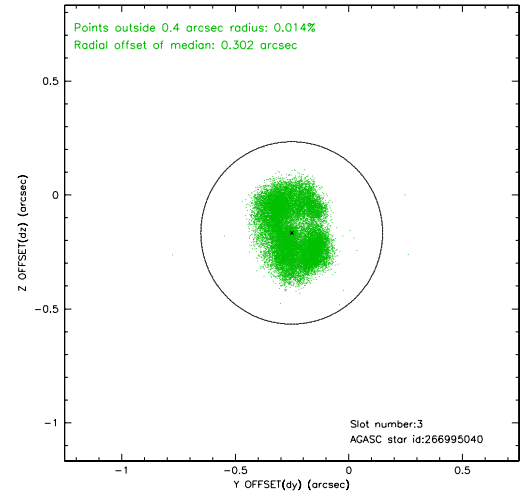
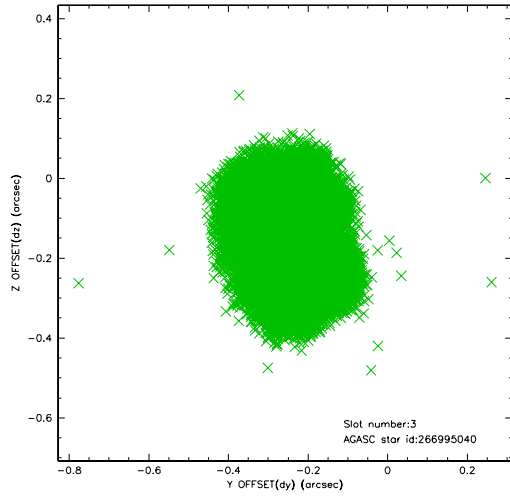


### Slot Statistics

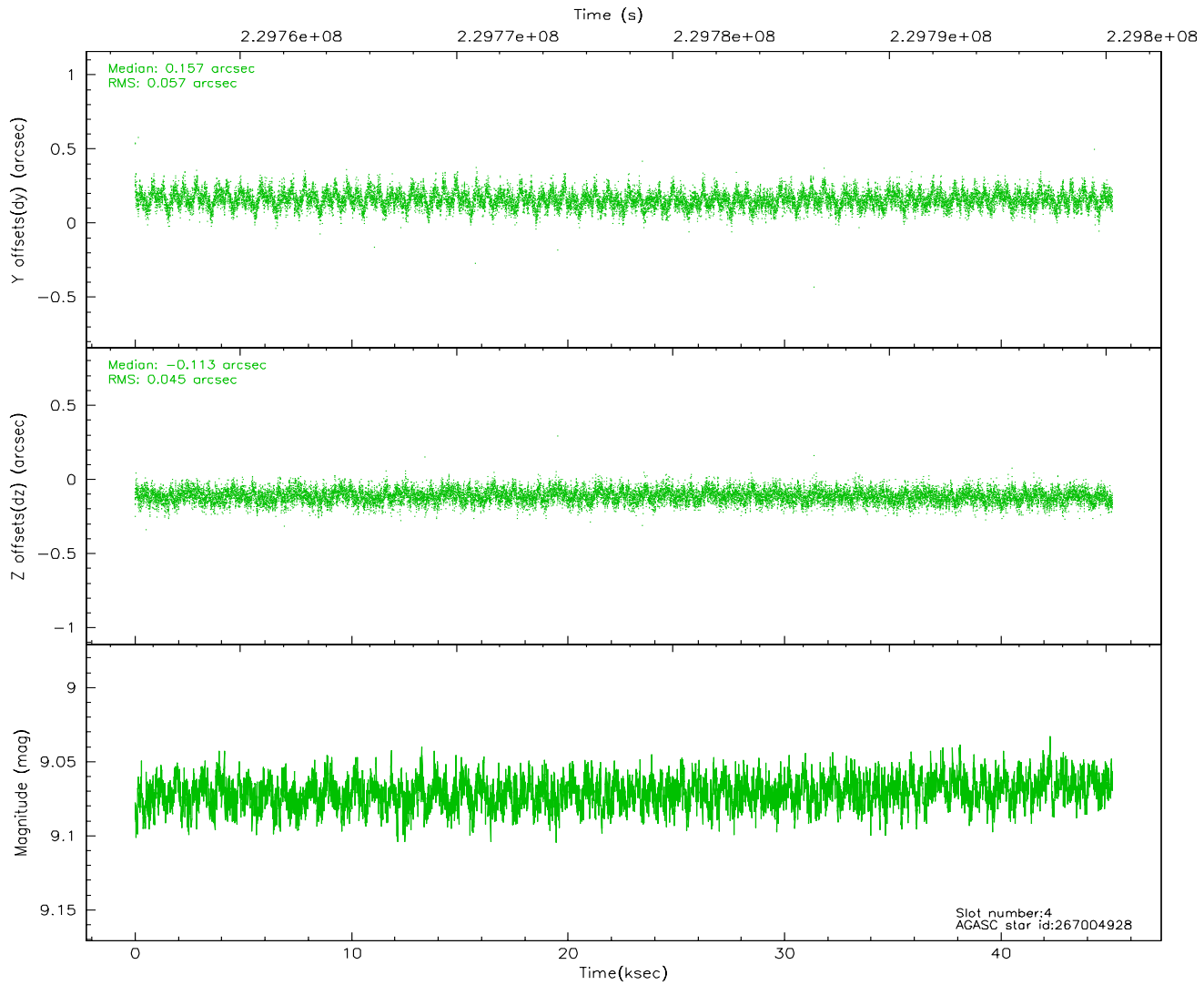
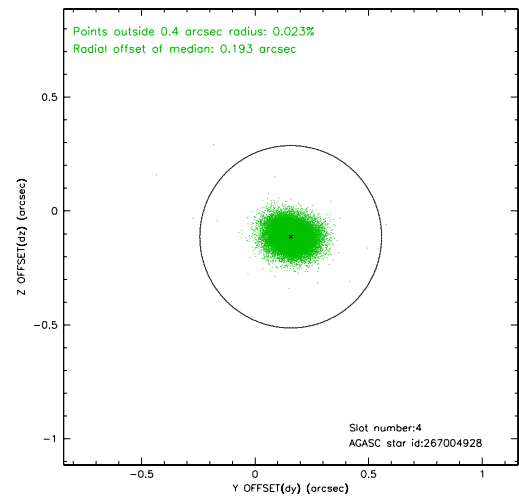
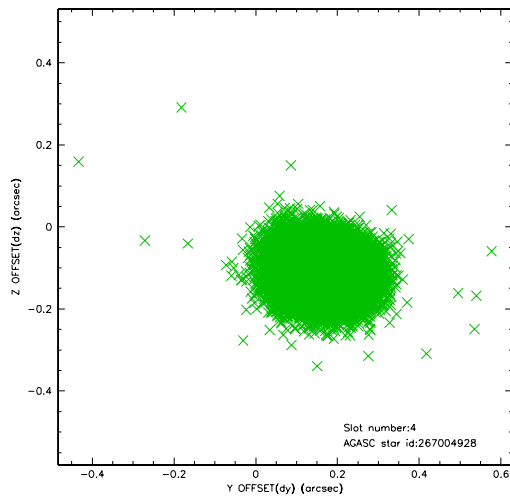
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.22	11015	0.066	-0.090	0.012	0.020	0.000000	0.000000	933.54	-1017.27
1	FID	ACIS-I-2	7.17	11016	-0.154	0.051	0.009	0.014	0.000000	0.000000	-761.24	-1022.49
2	FID	ACIS-I-4	7.14	11014	-0.010	0.105	0.009	0.015	0.000000	0.000000	2152.72	883.92
3	GUIDE	266995040	7.85	22025	-0.252	-0.167	0.151	0.205	239.014769	27.051479	522.25	1857.18
4	GUIDE	267004928	9.07	22021	0.157	-0.113	0.076	0.127	239.711277	26.663193	-1975.59	1010.68
5	GUIDE	267137048	7.87	22031	0.112	0.146	0.067	0.104	240.280451	27.143889	-1780.30	-1498.25
6	GUIDE	267006816	9.93	21868	0.005	-0.114	0.201	0.308	239.280899	27.325938	745.51	571.64
7	GUIDE	267139016	9.16	22019	-0.009	0.231	0.126	0.191	240.326918	27.469213	-961.49	-2348.55

## 2.4 Star Slots

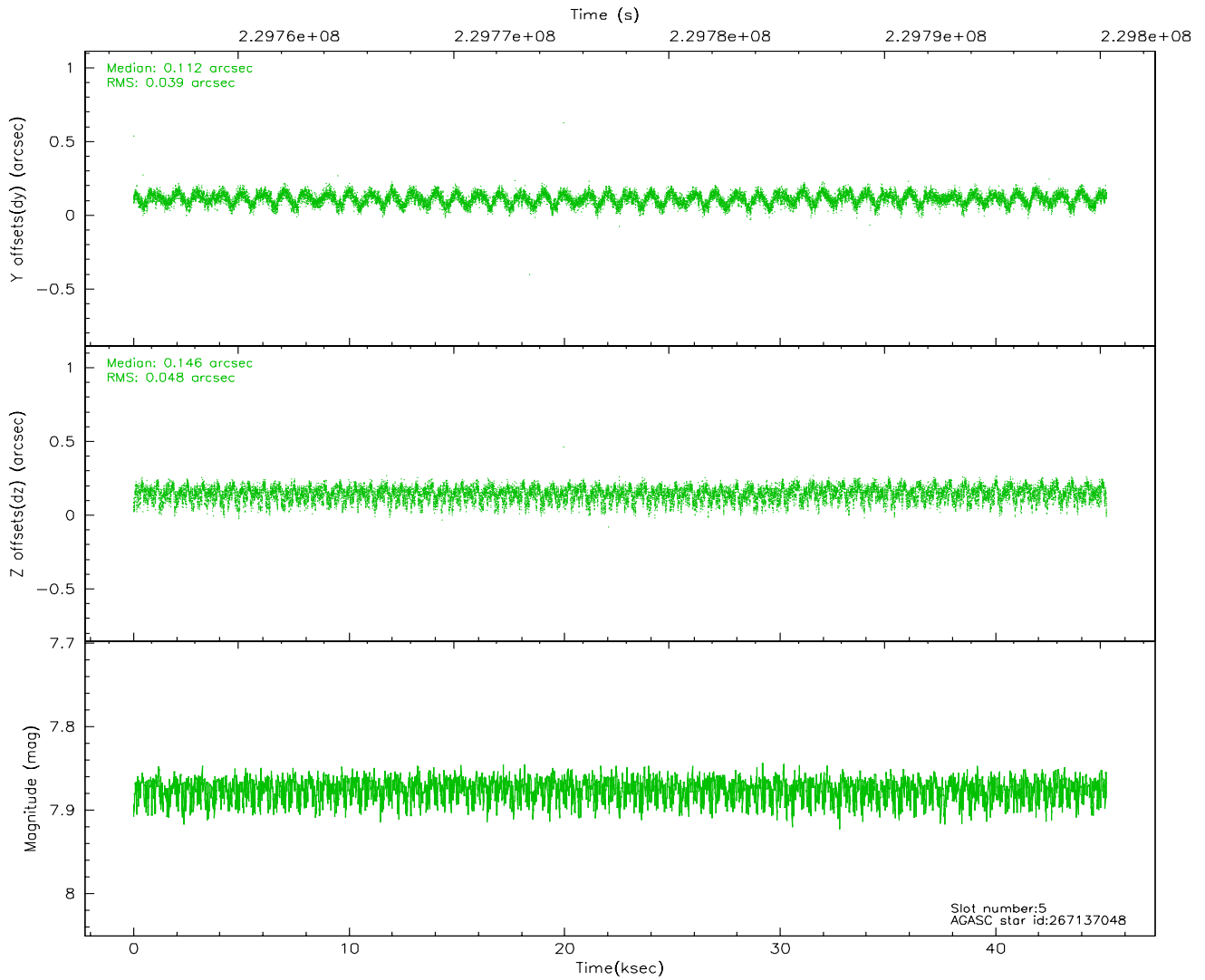
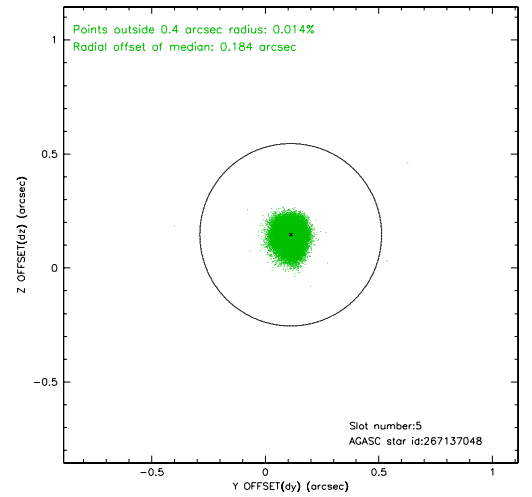
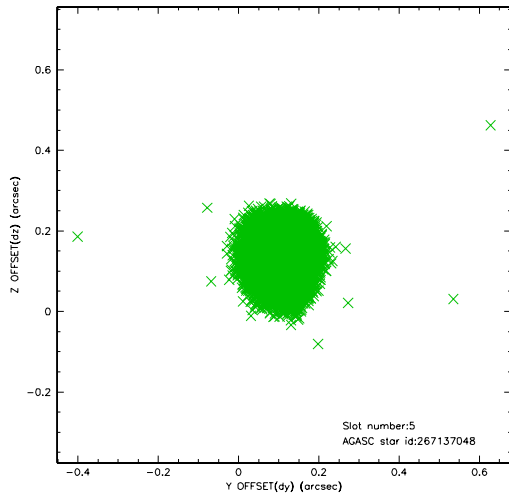
### 2.4.1 Slot 3



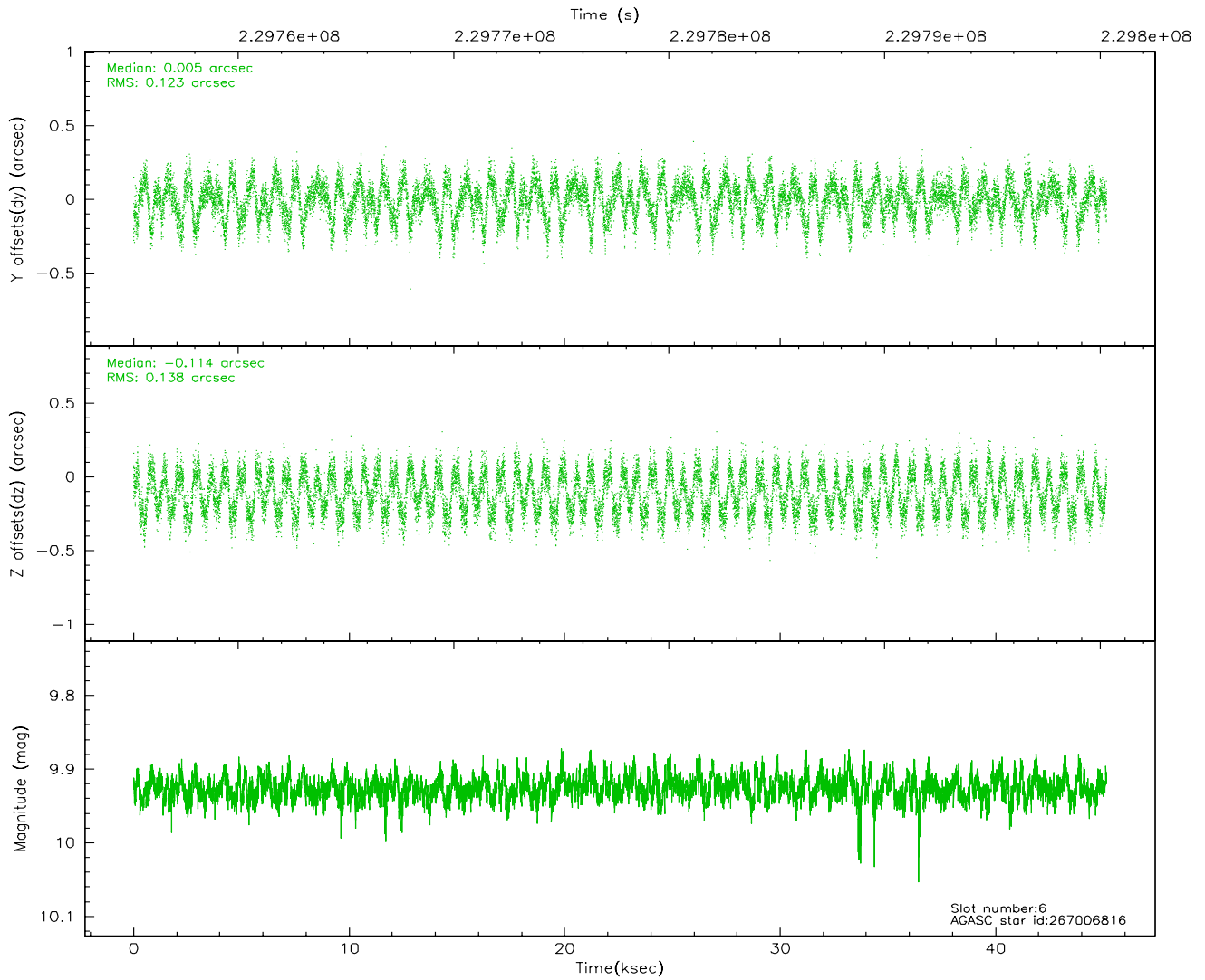
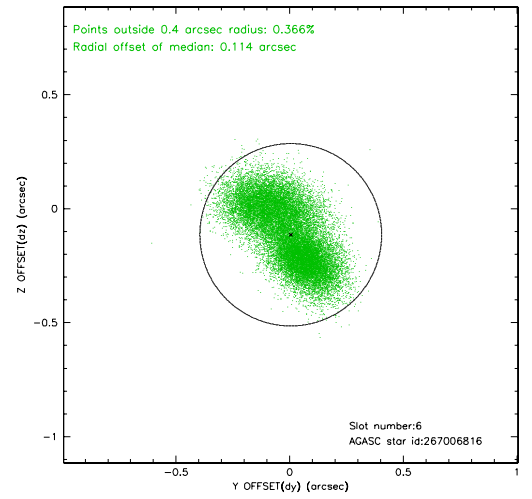
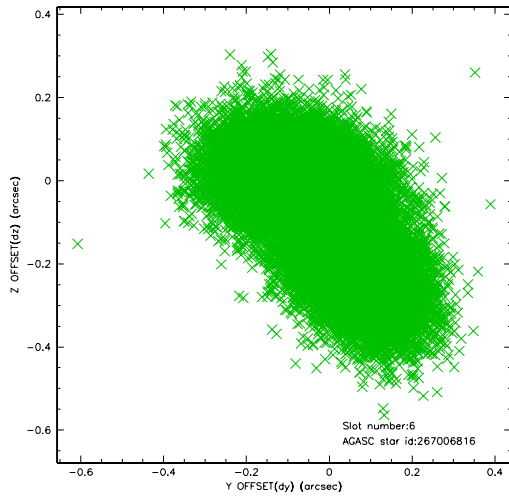
## 2.4.2 Slot 4



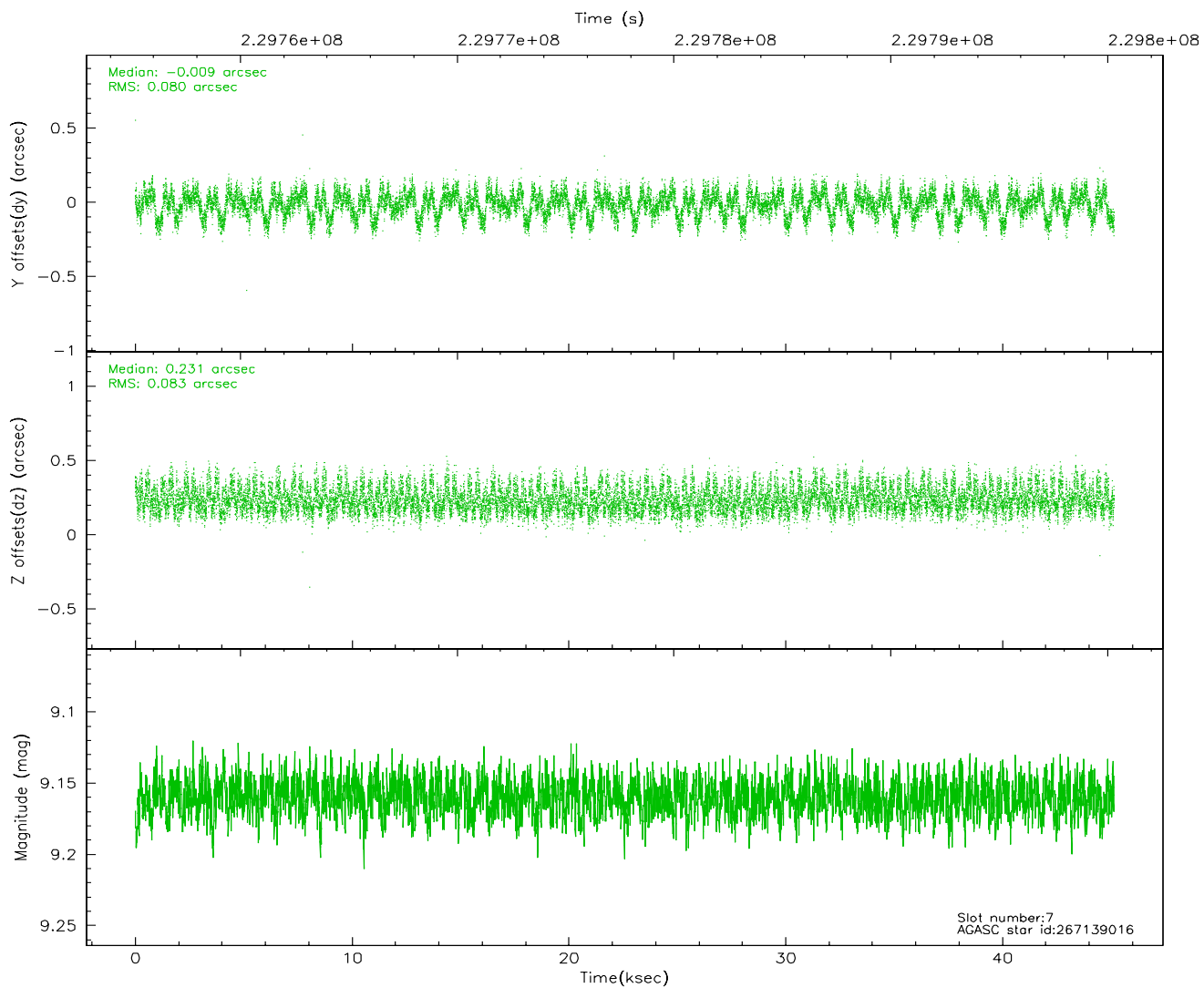
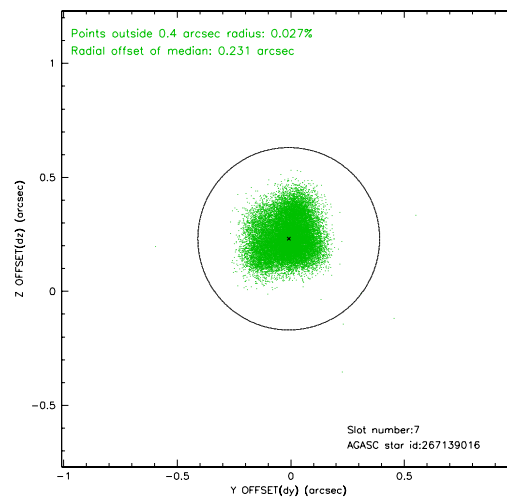
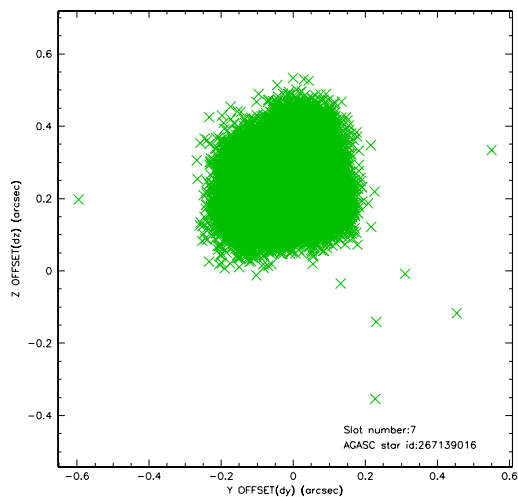
### 2.4.3 Slot 5



### 2.4.4 Slot 6

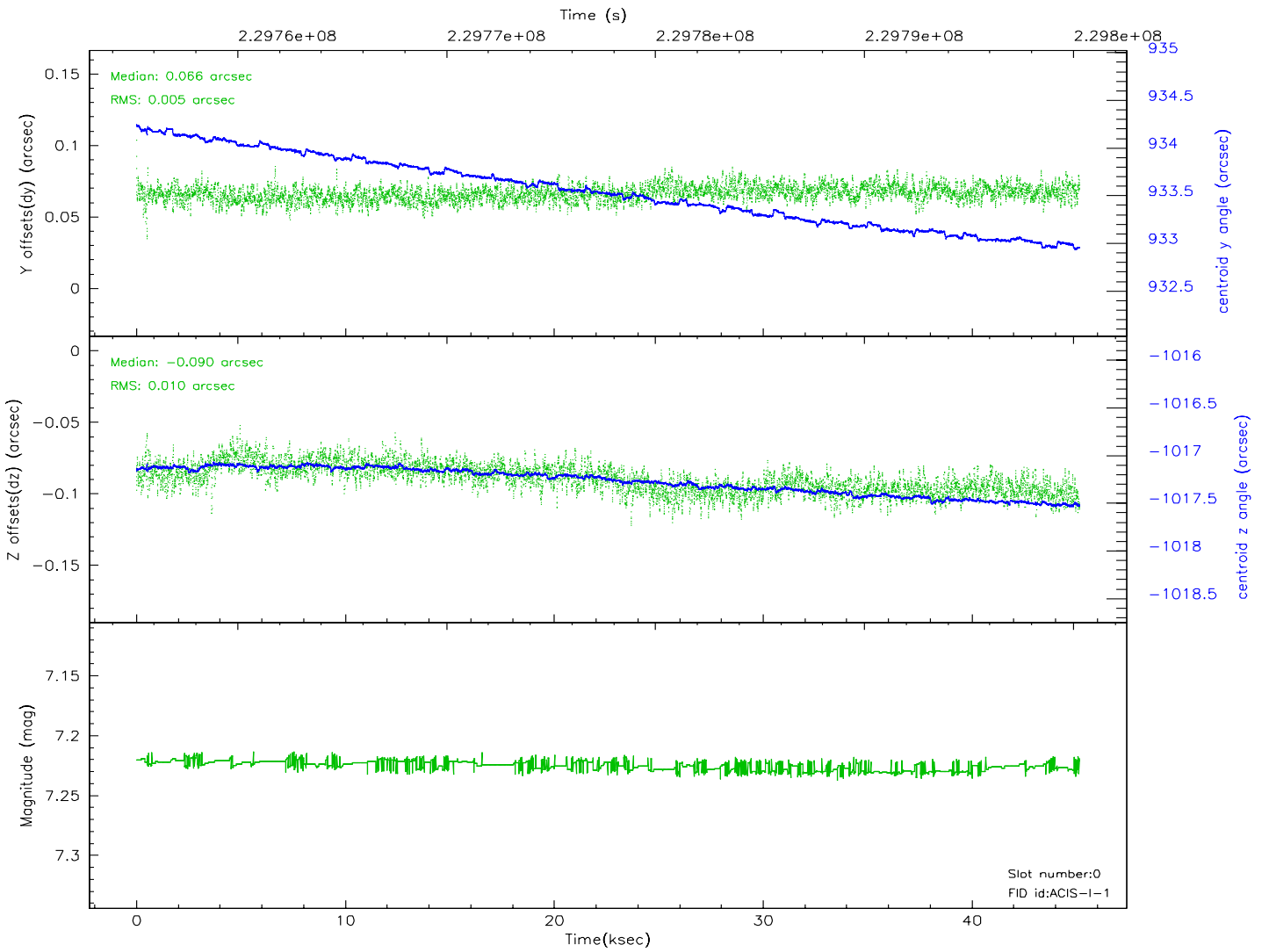
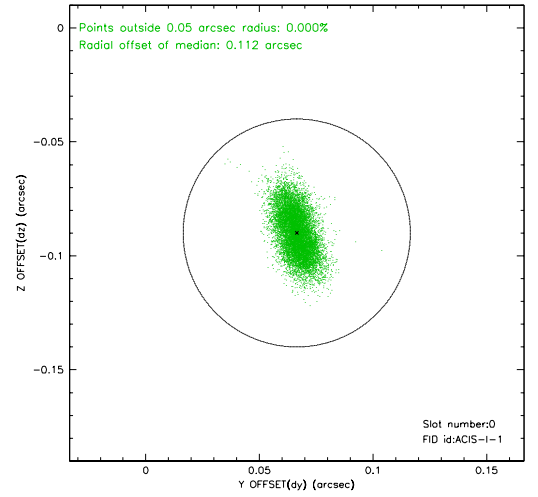
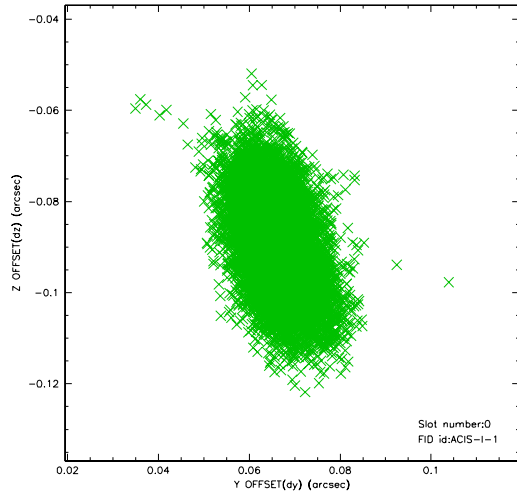


## 2.4.5 Slot 7

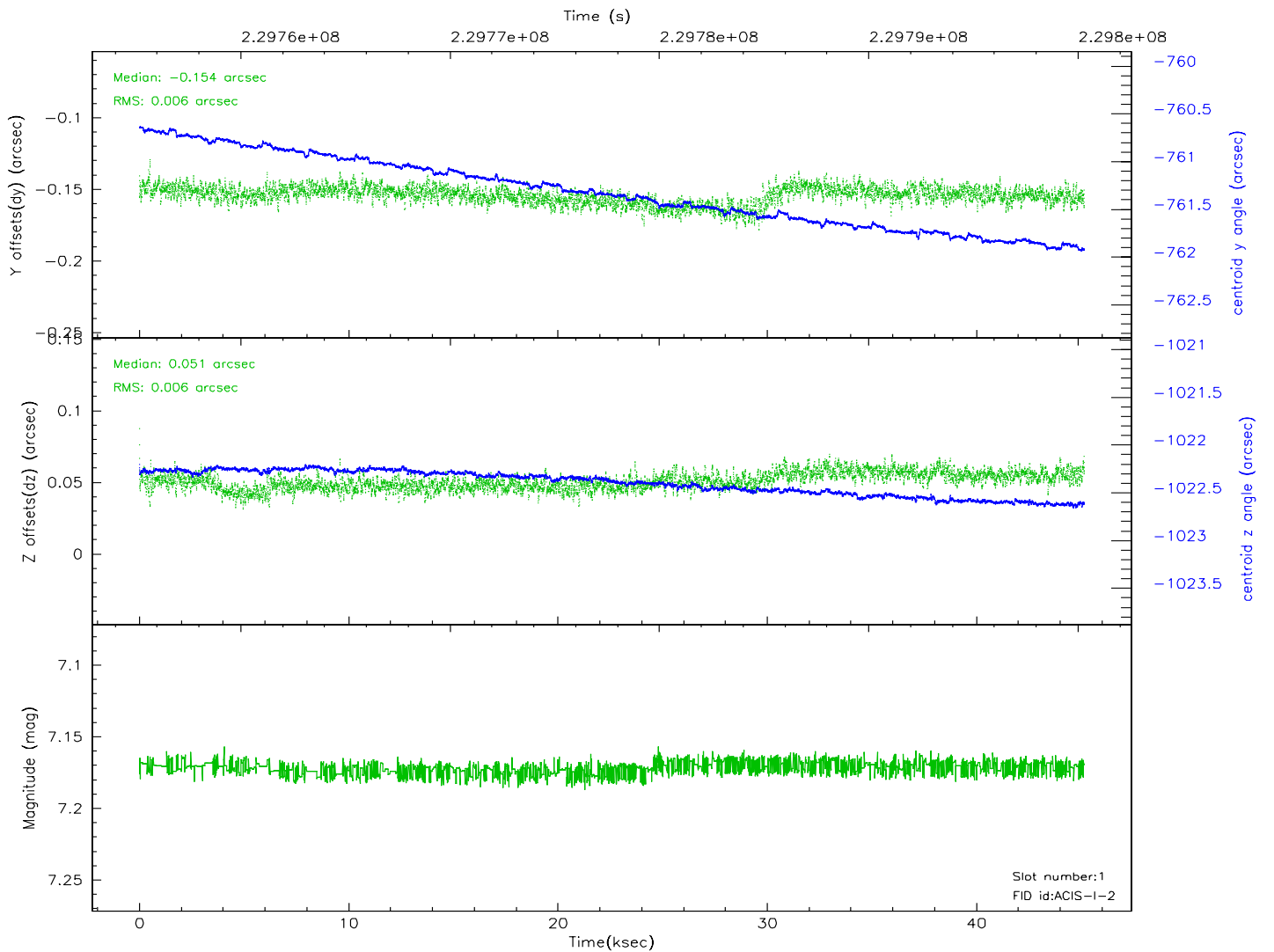
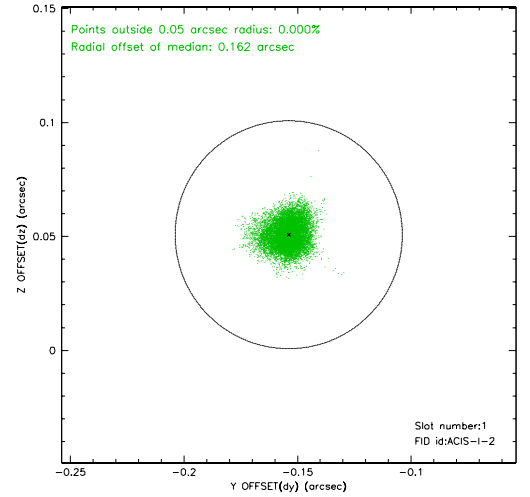
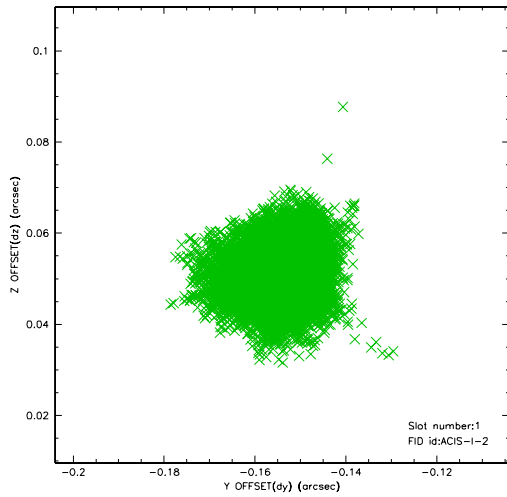


## 2.5 FID Slots

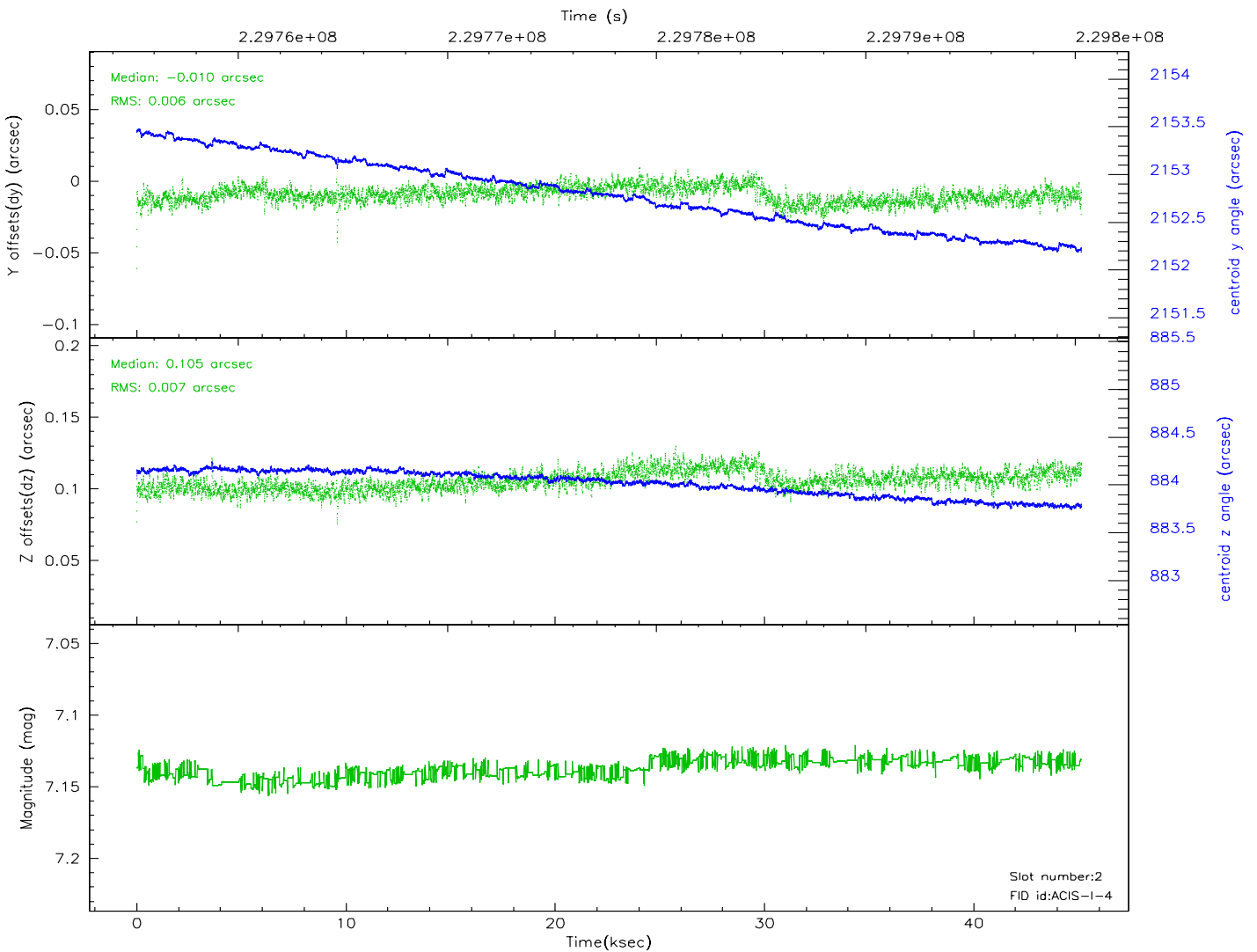
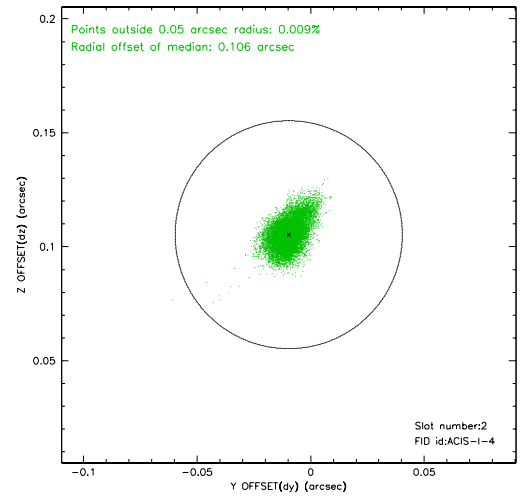
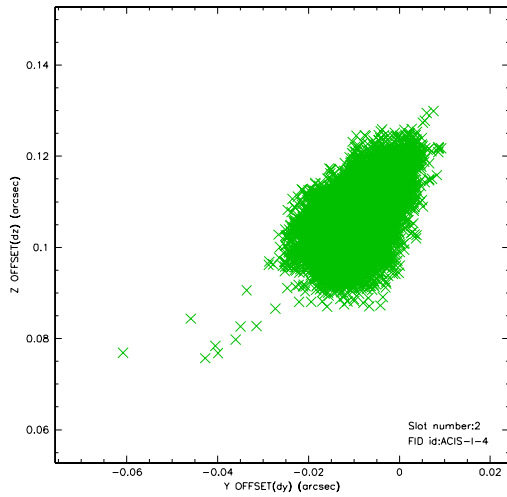
### 2.5.1 Slot 0



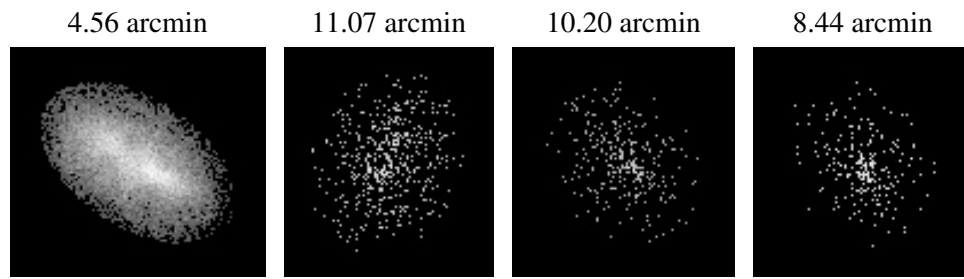
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.03.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.15451

## A.2 Comments