

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 3030 - L2 Version 001  
Chandra X-Ray Center

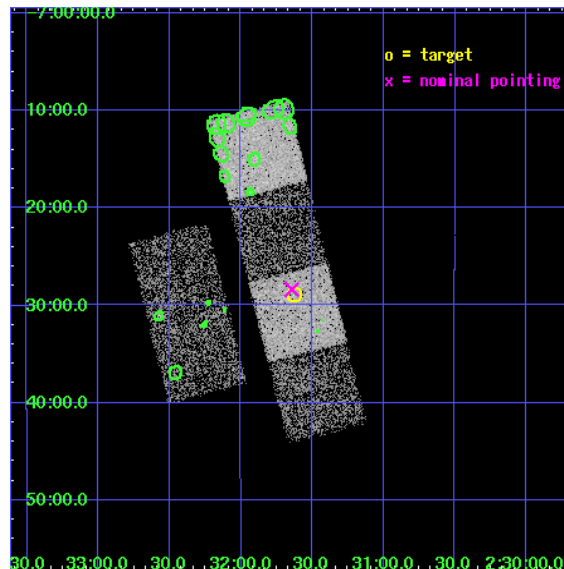
L2 Processing Date : Oct 5 2006

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# 1 Front

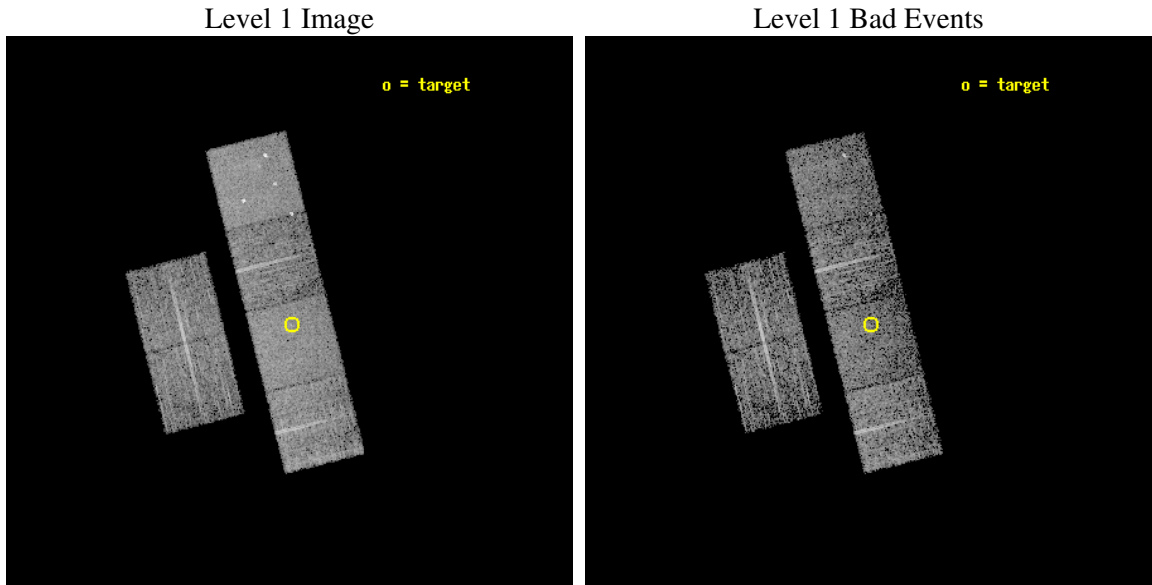
seq_num	700469
obs_id	3030
title	A CHANDRA AND XMM-NEWTON STUDY OF THE MOST DISTANT QUASARS: X-RAYING THE FIRST MASSIVE BLACK HOLES
observer	Prof. William Brandt
object	SDSSJ023137-072854
dtcycle	0
cycle	P
ra_targ	37.906667
dec_targ	-7.481806
ra_nom	37.910670030661
dec_nom	-7.4729969340426
roll_nom	75.939981182596
revision	2
ontime	4252.7999841571
livetime	4198.948470029
ontime2	4252.7999841571
ontime3	4252.7999841571
ontime5	4252.7999841571
ontime6	4252.7999841571
ontime7	4252.7999841571
ontime8	4249.5591134727
l2events	39377



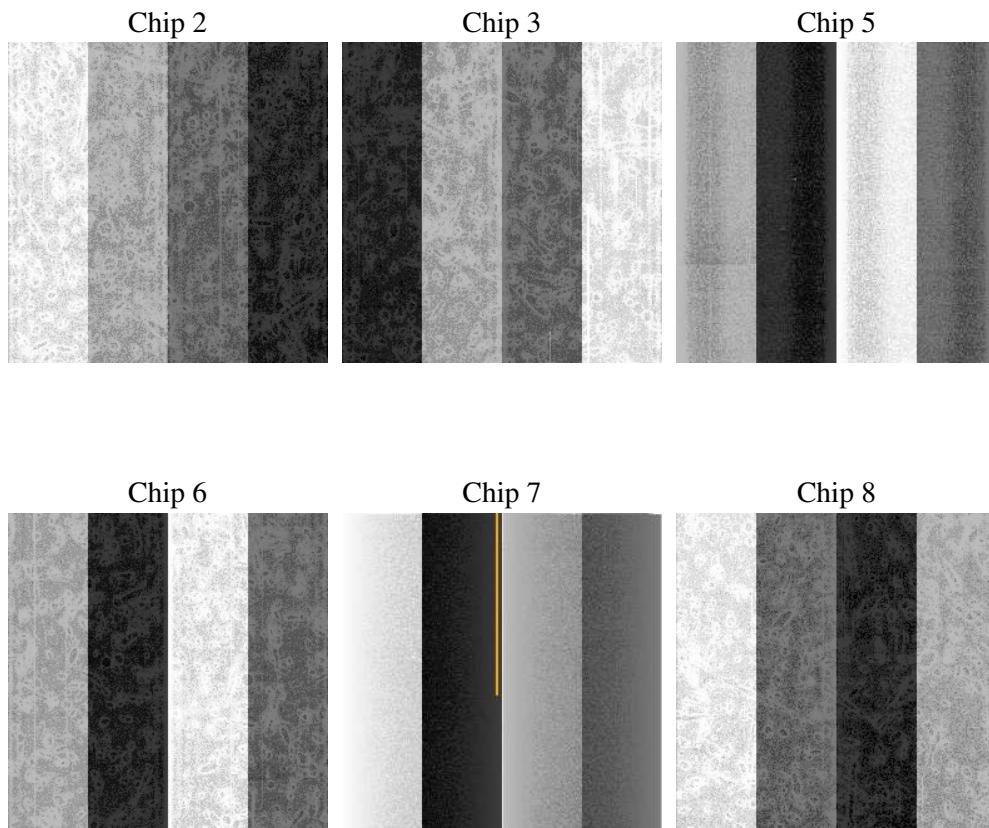
## 2 OBI

### 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	2006-10-05T15:33:34
revision	2

sched_exp_time	4500.000000
ontime	4258.6833361387
ontime2	4258.683316201
ontime3	4258.6833361387
ontime5	4258.6833361387
ontime6	4258.683316201
ontime7	4258.6833361387
ontime8	4255.4423658252
l1events	188700

### 2.1.4 Events

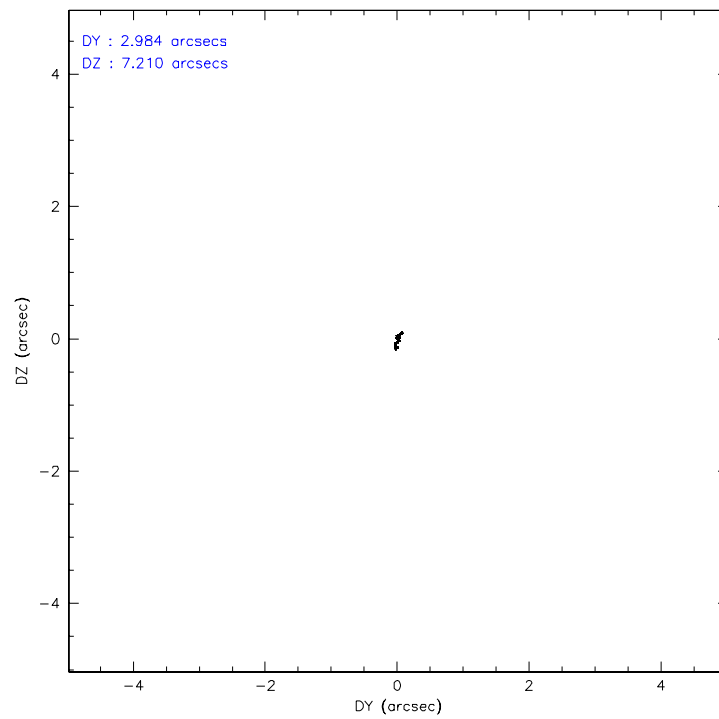
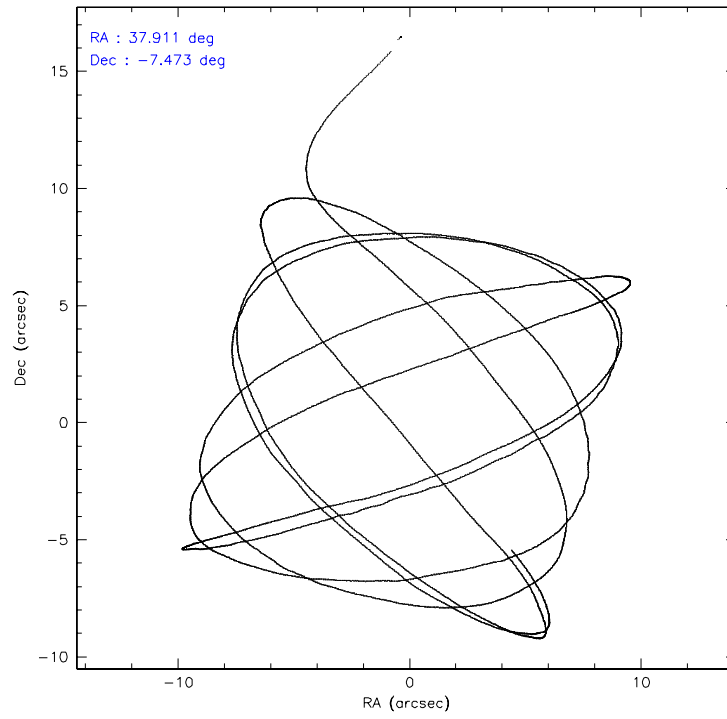
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	26708	25902	39021	26747	34718	35604
rejected events	23591	22911	21660	23619	21503	28926
rejected %	88%	88%	55%	88%	61%	81%

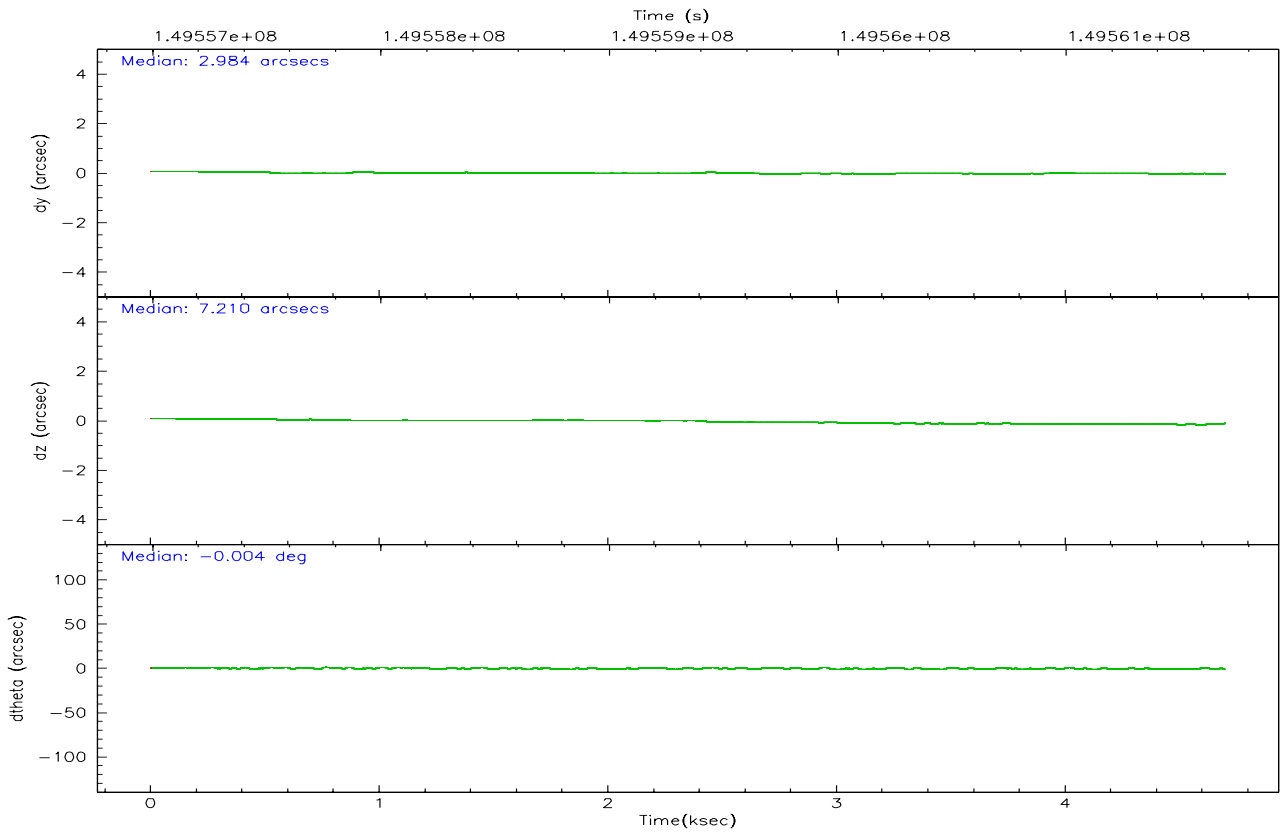
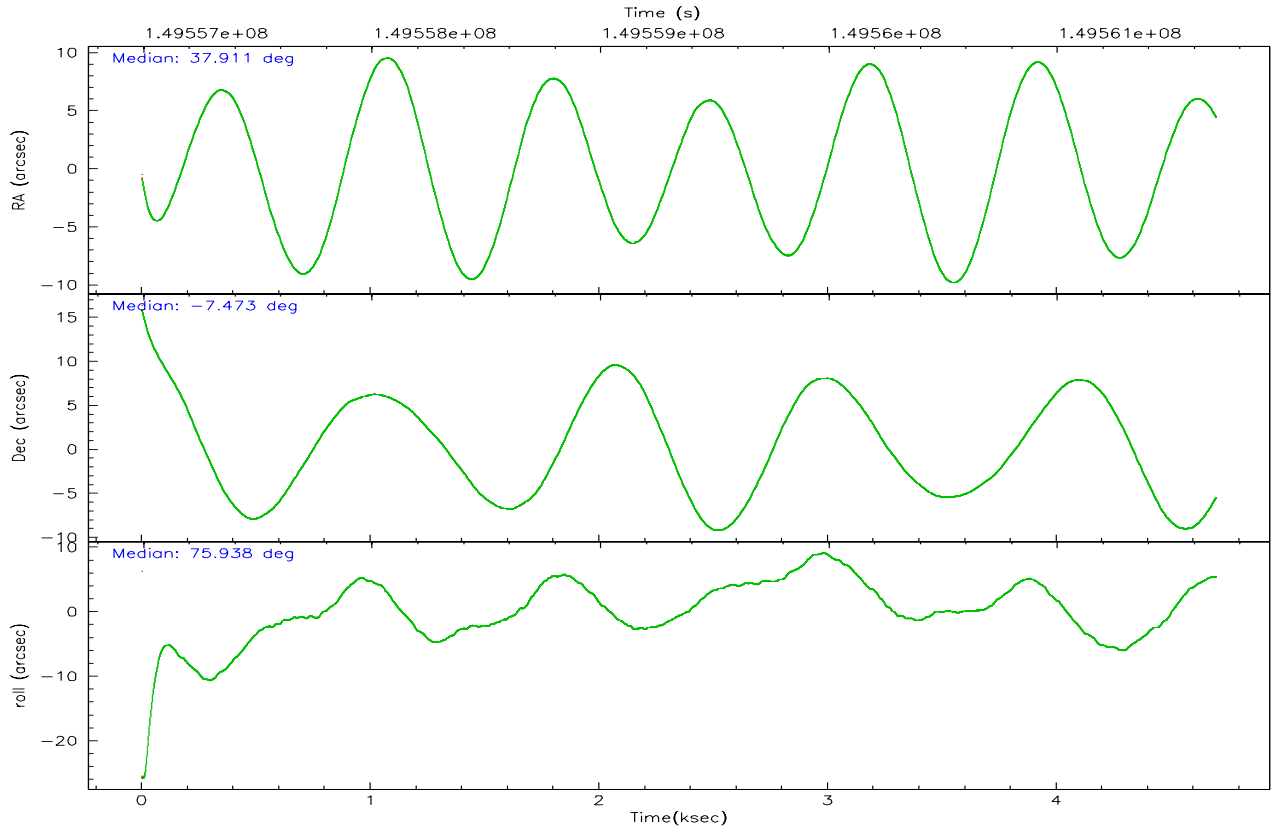
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1370	1358	1757	1237	775	2092
	5%	5%	4%	4%	2%	5%
grade 1 events	14	13	60	21	16	23
	0%	0%	0%	0%	0%	0%
grade 2 events	632	540	5199	655	3210	1362
	2%	2%	13%	2%	9%	3%
grade 3 events	290	287	545	331	700	732
	1%	1%	1%	1%	2%	2%
grade 4 events	292	315	372	297	688	698
	1%	1%	0%	1%	1%	1%
grade 5 events	1020	1064	2102	1195	2193	1436
	3%	4%	5%	4%	6%	4%
grade 6 events	536	496	9508	613	7865	1806
	2%	1%	24%	2%	22%	5%
grade 7 events	22554	21829	19478	22398	19271	27455
	84%	84%	49%	83%	55%	77%

## 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	37.918564	37.91067003066119	Subarray requested	NONE	NONE
Pointing Dec	-7.499062	-7.472996934042576	Alternating exposures requested	N	N
Pointing Roll	75.784444	75.93998118259634	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	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	149557193.184000	149555912.51317			
Observation start date	2002-09-27T23:38:49	2002-09-27T23:18:32			
Observation end time	149561693.184000	149562649.83845			
Observation end date	2002-09-28T00:53:49	2002-09-28T01:10:49			
Read mode	TIMED	TIMED			

## 2.3 Aspect



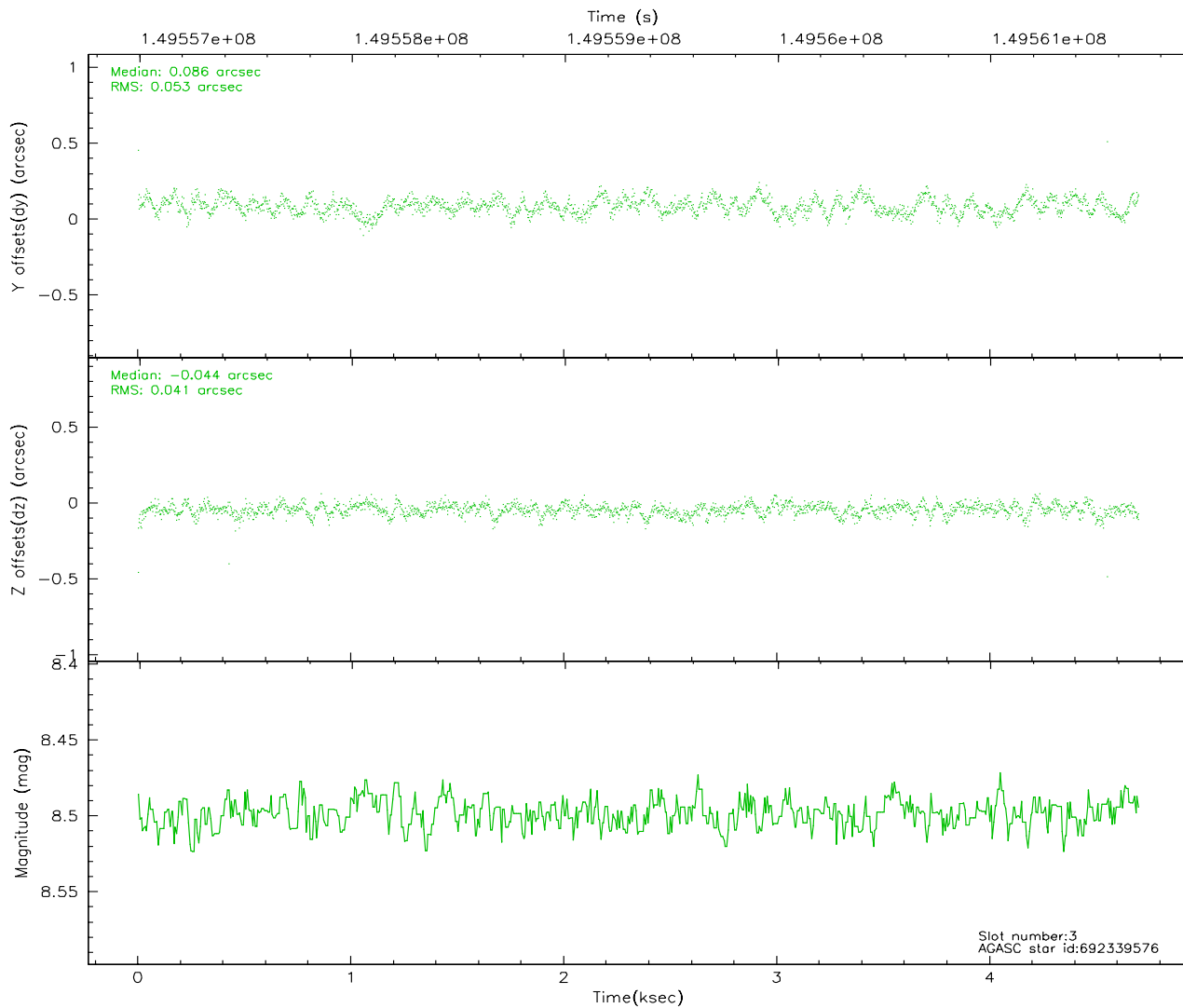
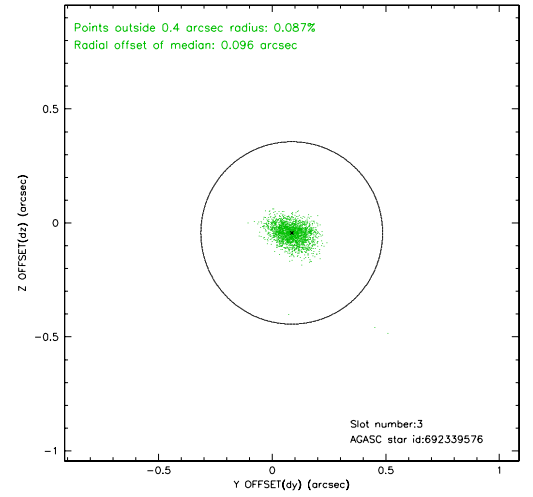
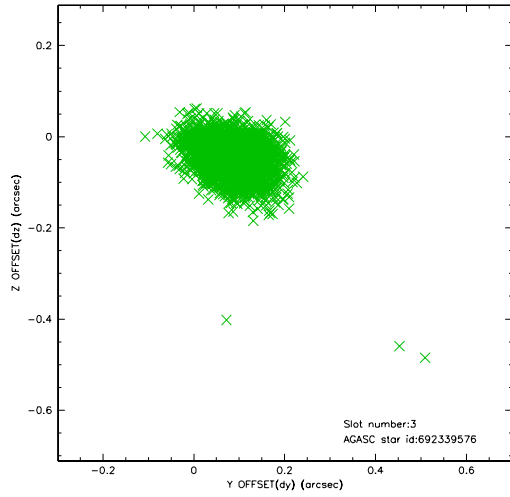


### Slot Statistics

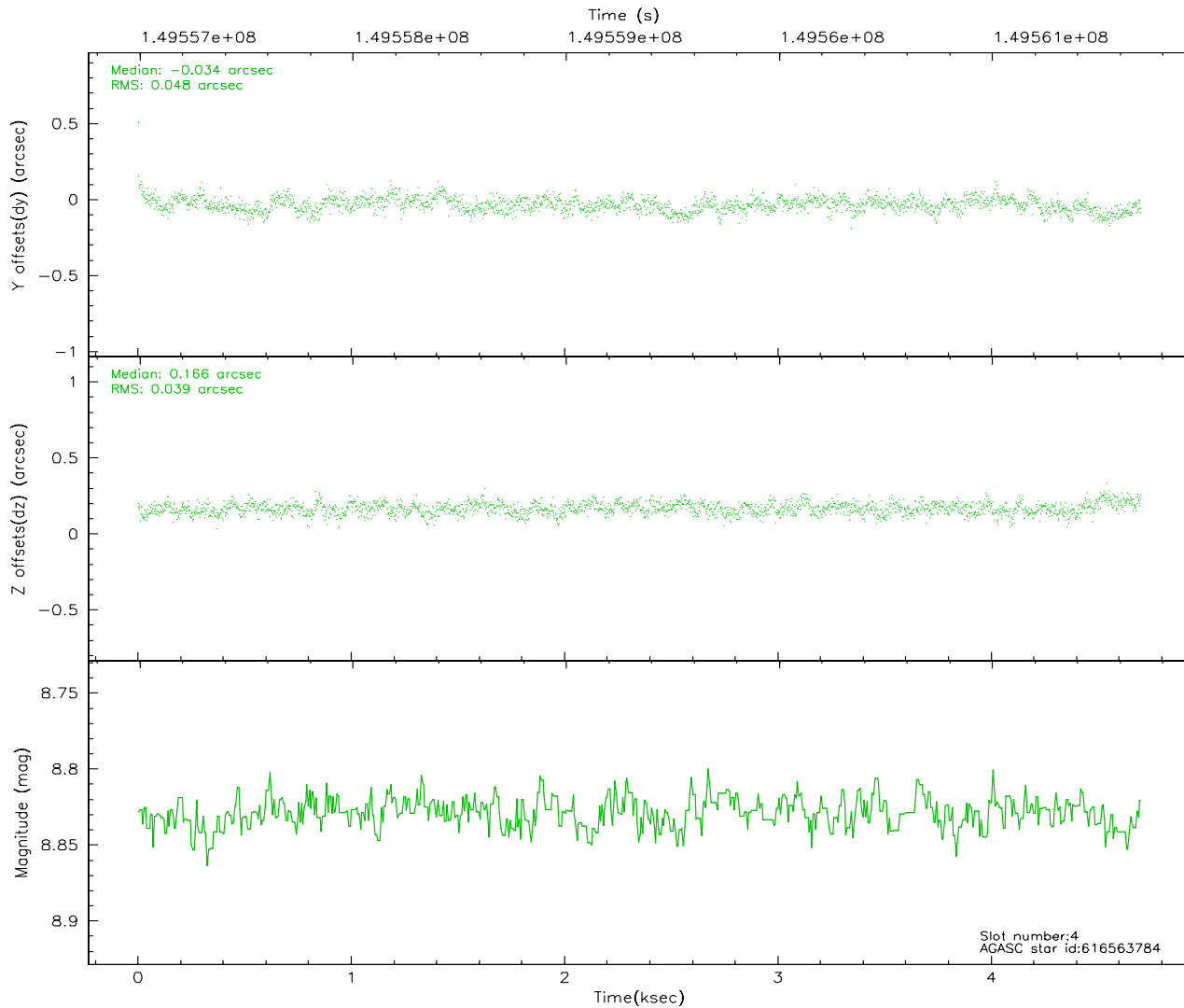
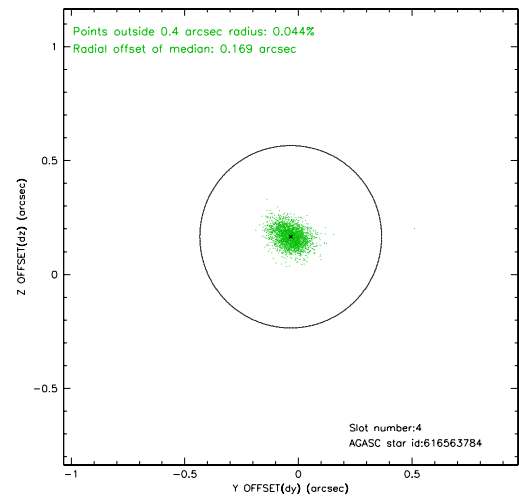
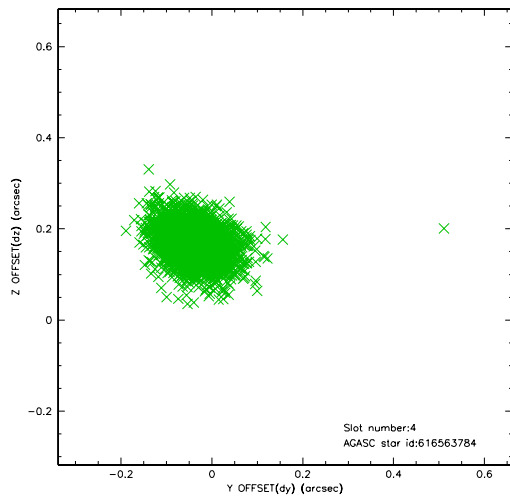
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	1147	0.013	0.021	0.006	0.011	0.000000	0.000000	-755.61	-1728.27
1	FID	ACIS-S-4	7.20	1147	-0.027	-0.006	0.006	0.009	0.000000	0.000000	2157.03	178.84
2	FID	ACIS-S-6	7.35	1147	-0.013	-0.008	0.007	0.011	0.000000	0.000000	408.02	817.71
3	GUIDE	692339576	8.50	2292	0.086	-0.044	0.068	0.113	37.731204	-7.997834	-1904.83	206.84
4	GUIDE	616563784	8.83	2293	-0.034	0.166	0.064	0.107	38.079280	-7.169362	1290.48	-264.31
5	GUIDE	616563144	9.46	2292	-0.191	-0.080	0.083	0.137	37.796938	-6.897974	1991.10	953.09
6	GUIDE	692333384	9.64	2281	0.100	0.135	0.100	0.163	38.093294	-7.792879	-871.76	-862.89
7	GUIDE	615646768	9.63	2292	0.048	-0.171	0.120	0.194	37.345986	-7.070331	992.07	2361.61

## 2.4 Star Slots

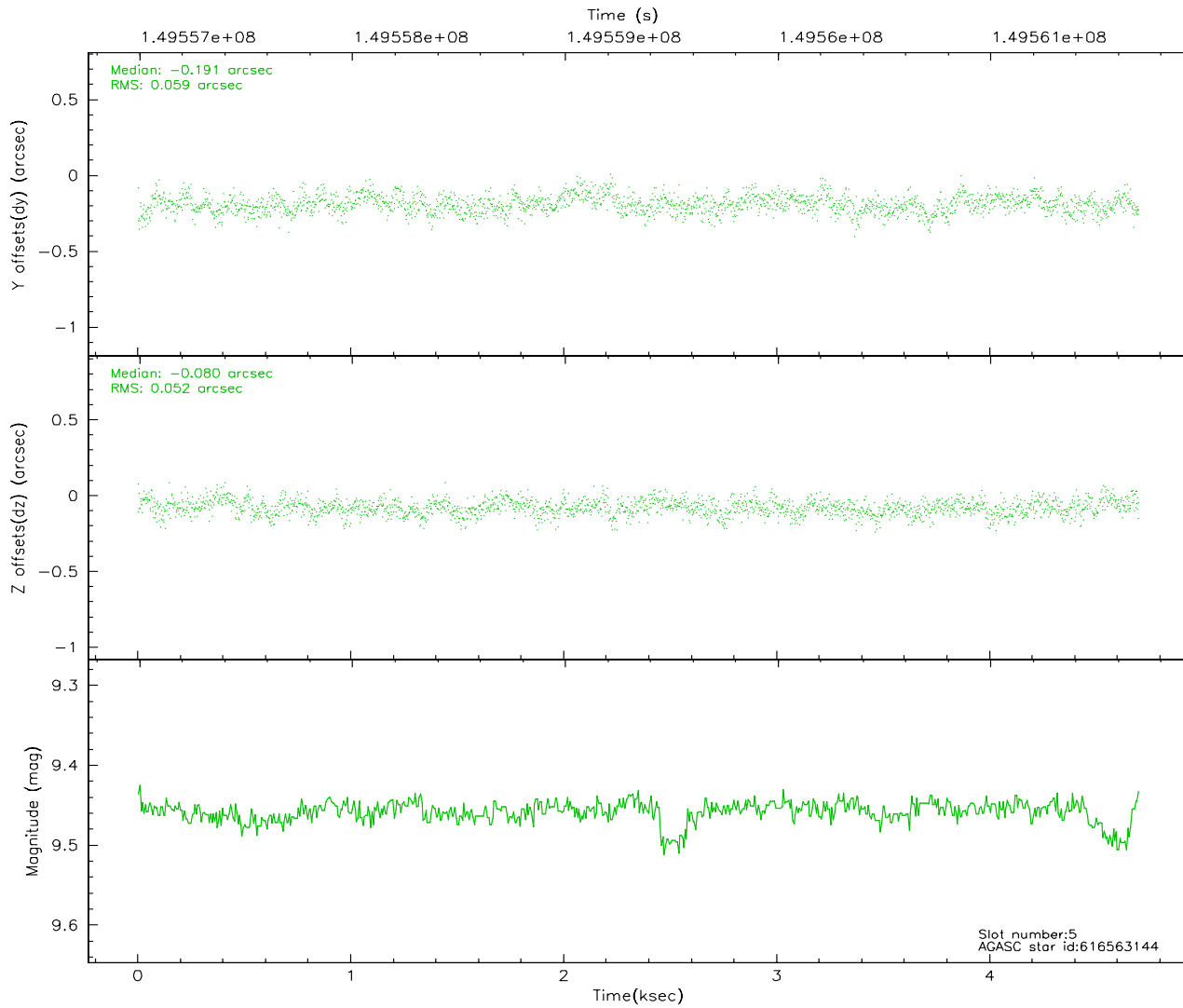
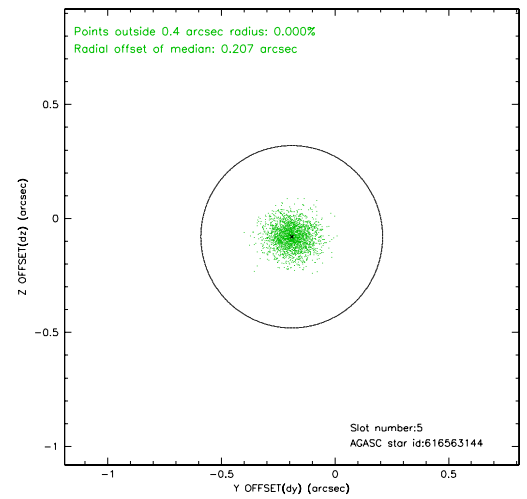
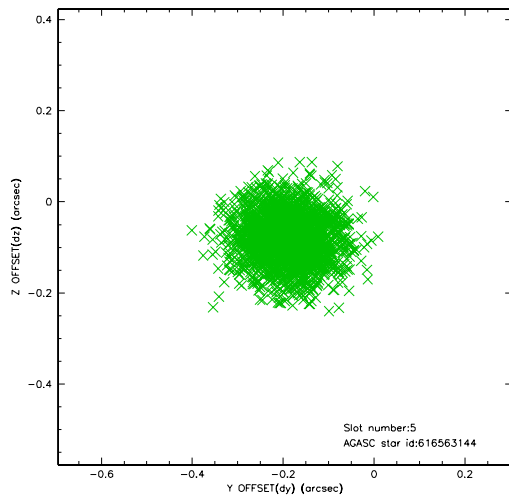
### 2.4.1 Slot 3



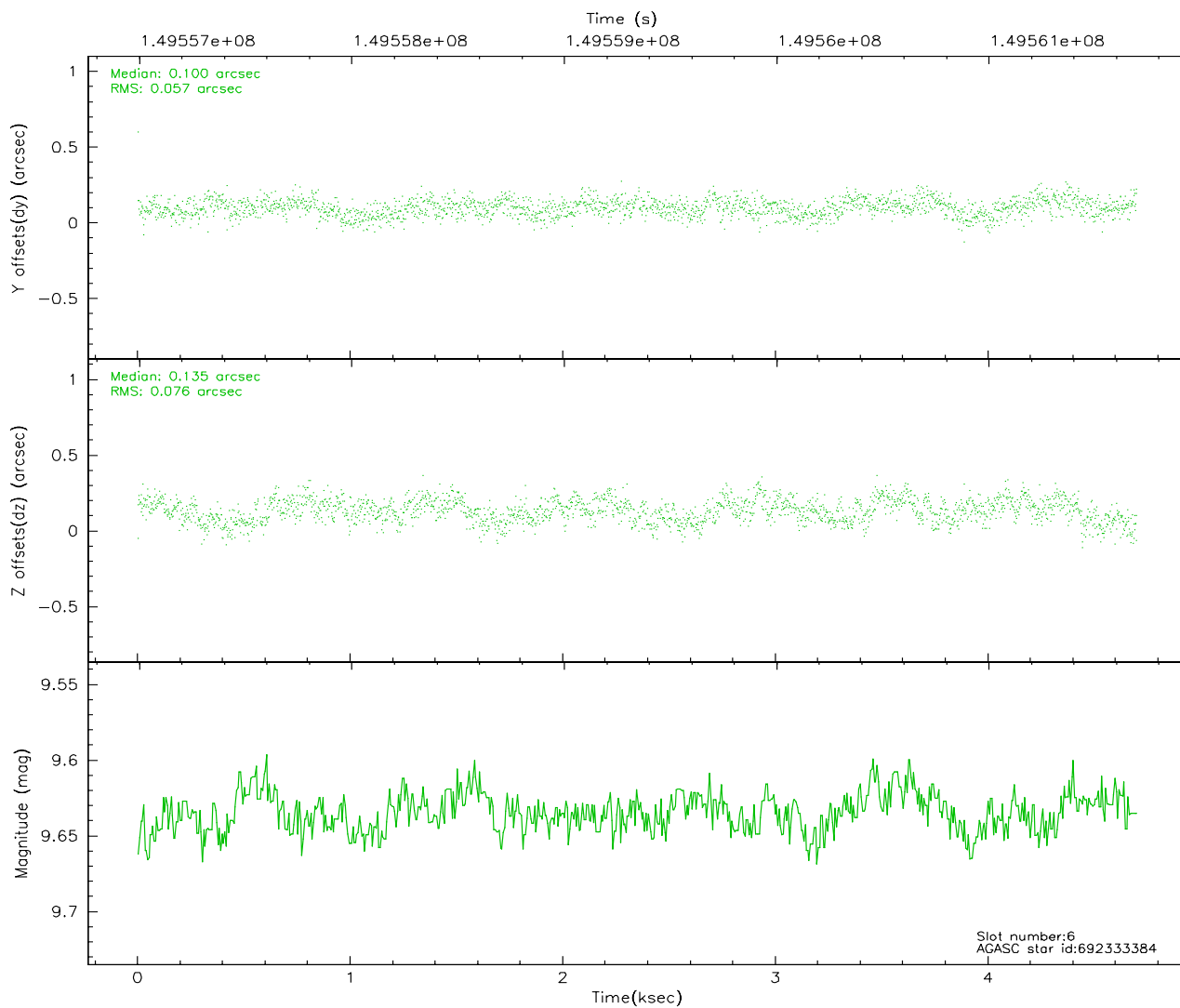
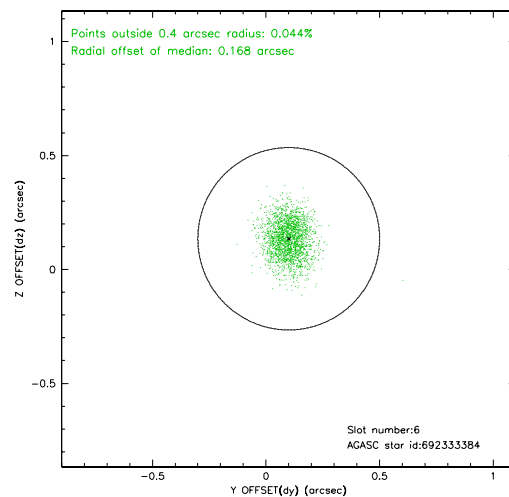
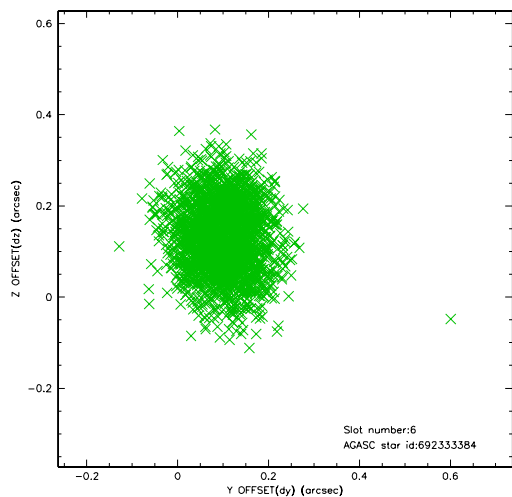
## 2.4.2 Slot 4



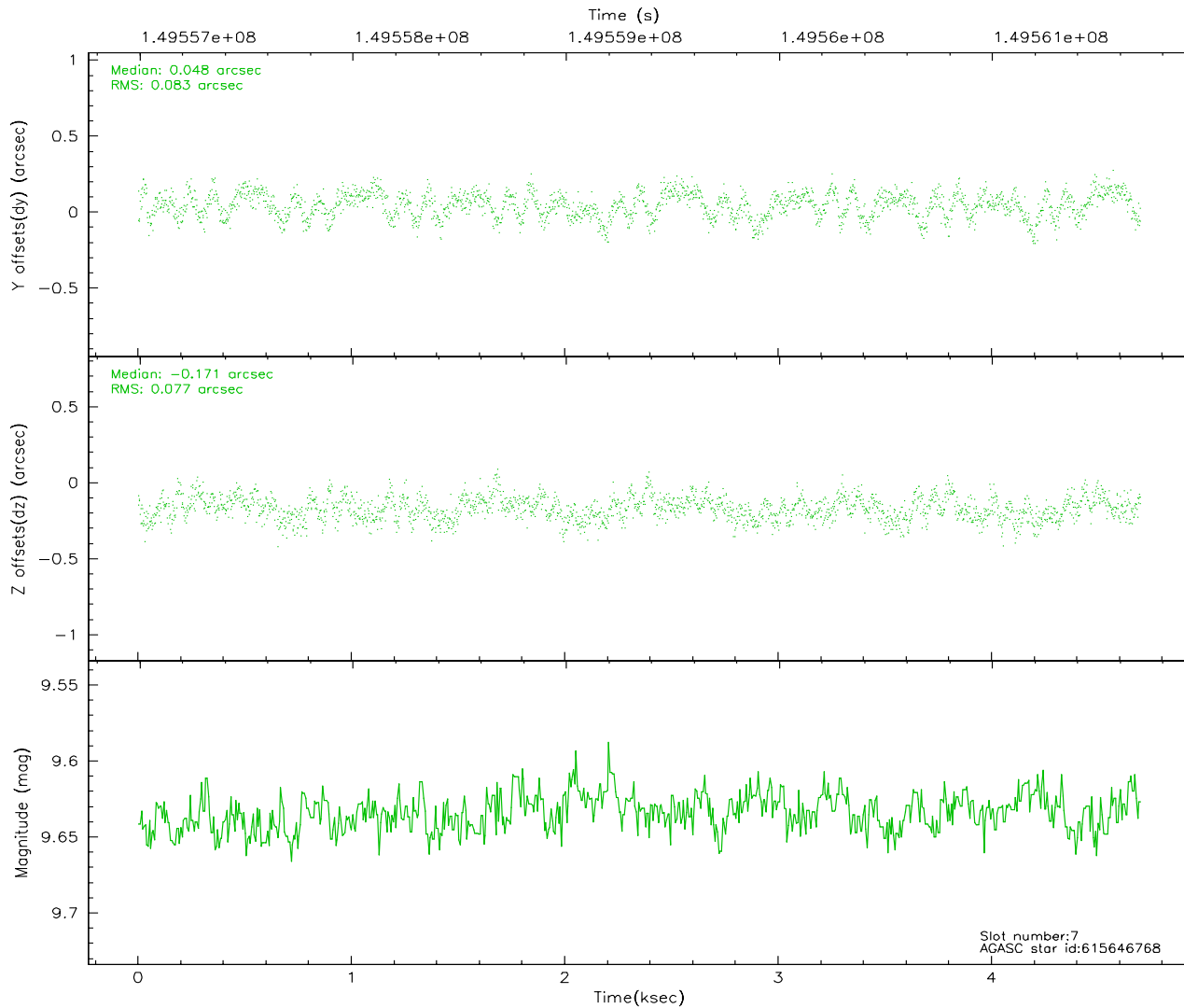
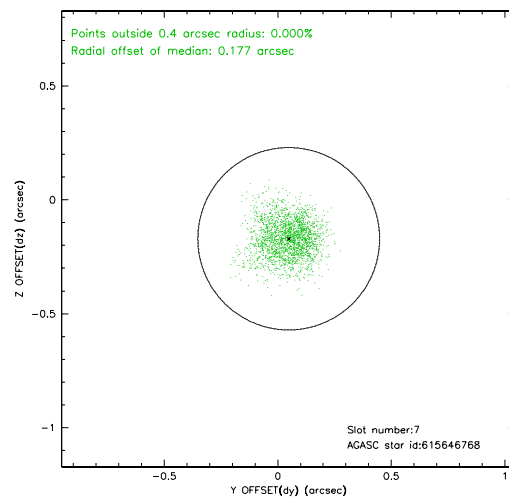
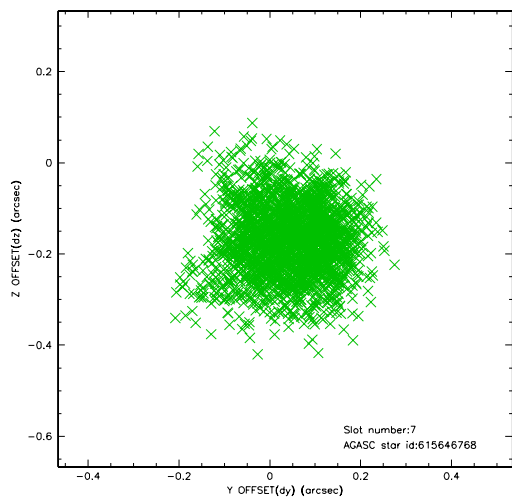
### 2.4.3 Slot 5



## 2.4.4 Slot 6

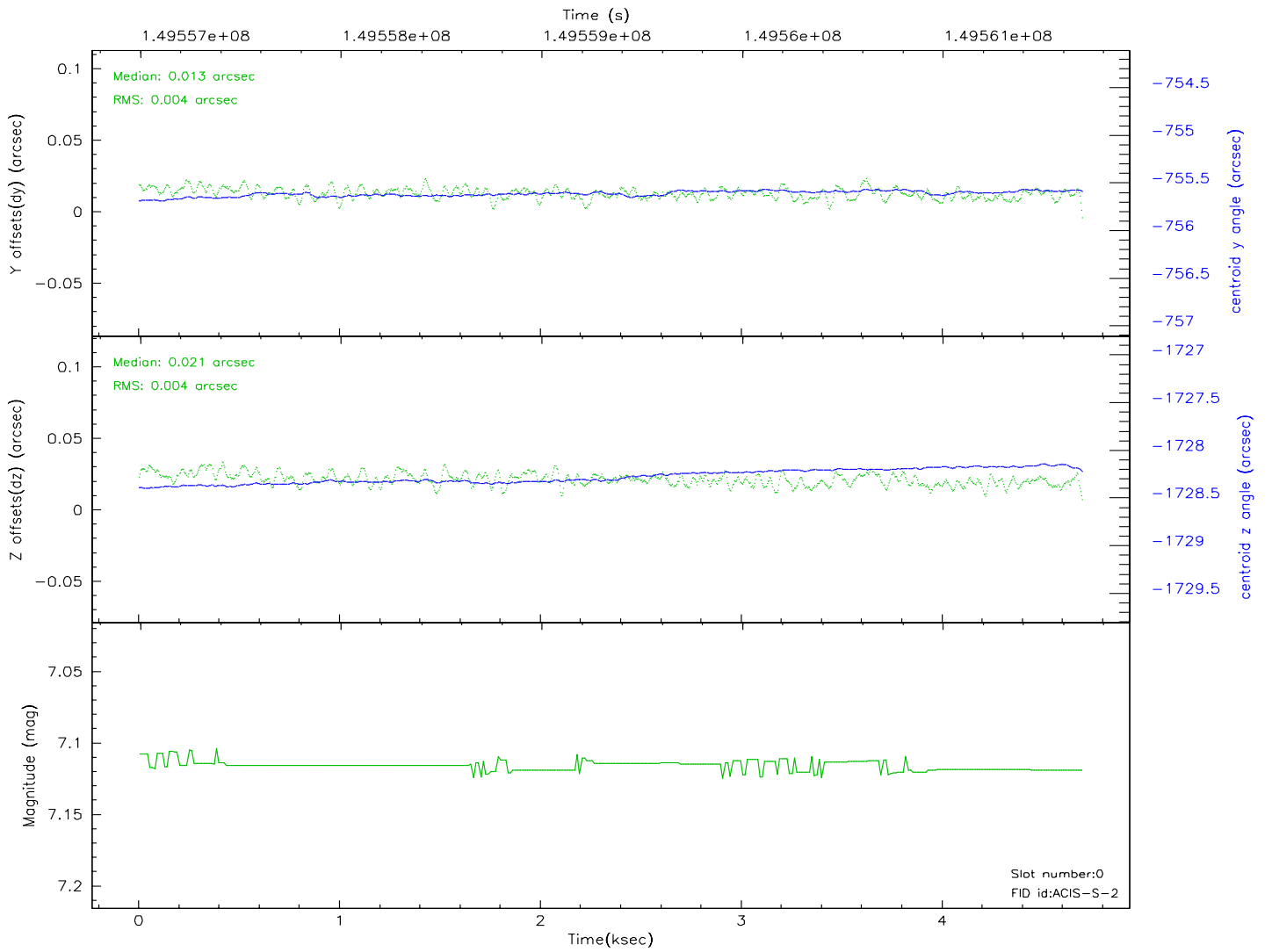
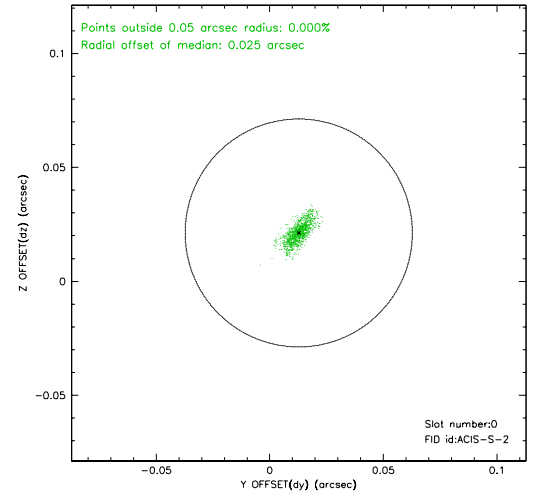
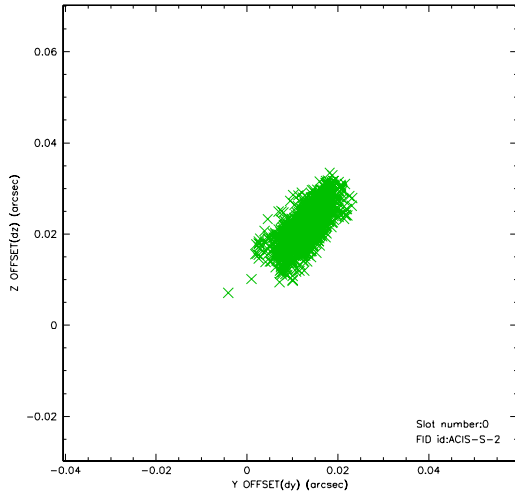


## 2.4.5 Slot 7

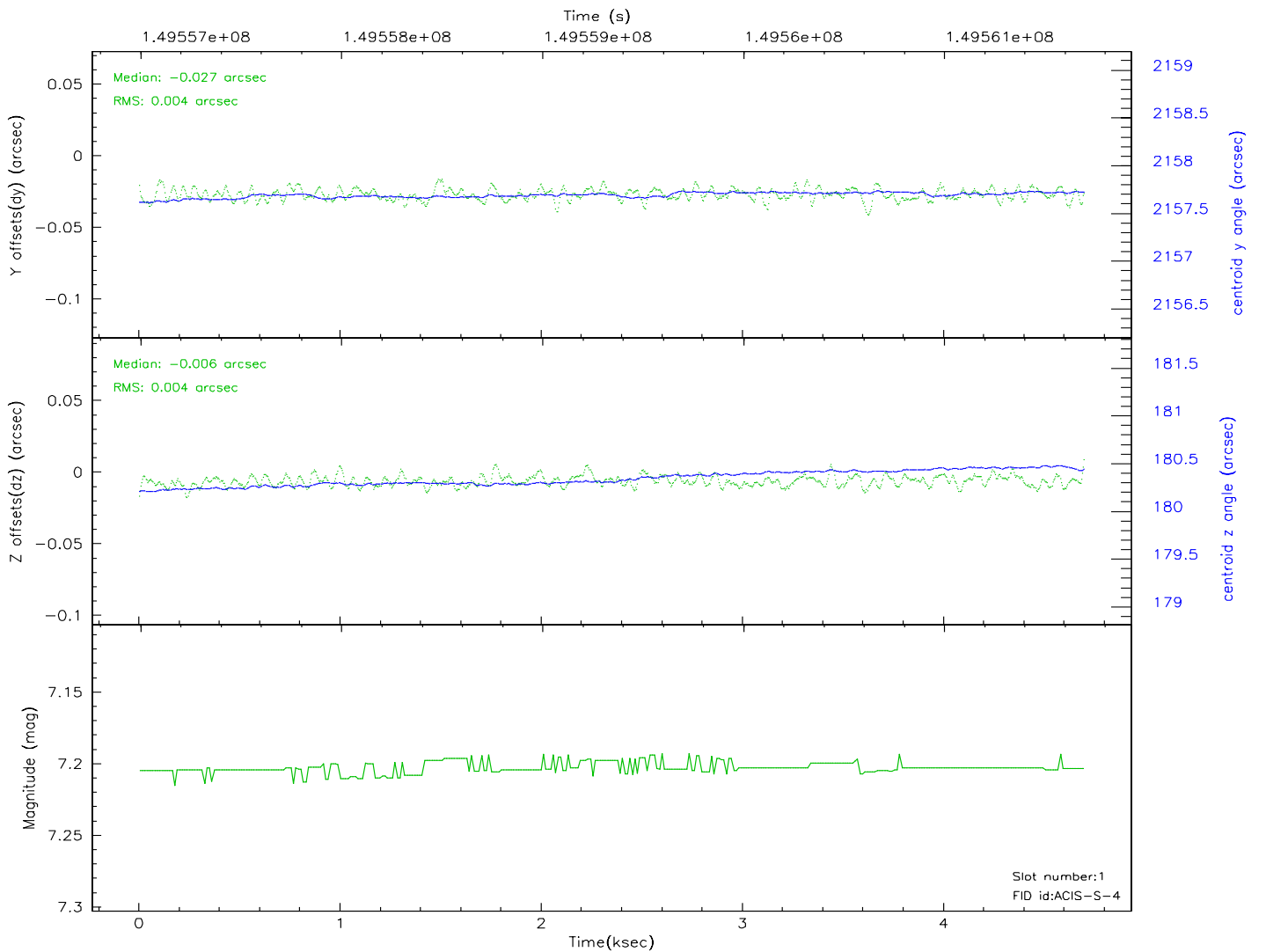
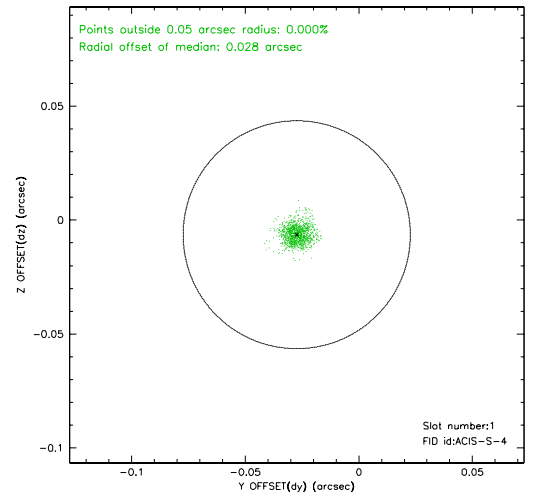
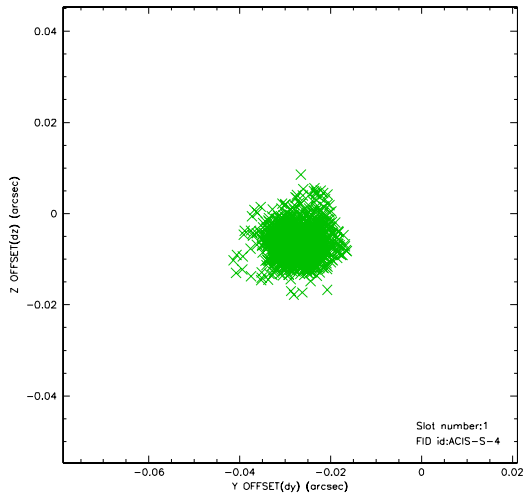


## 2.5 FID Slots

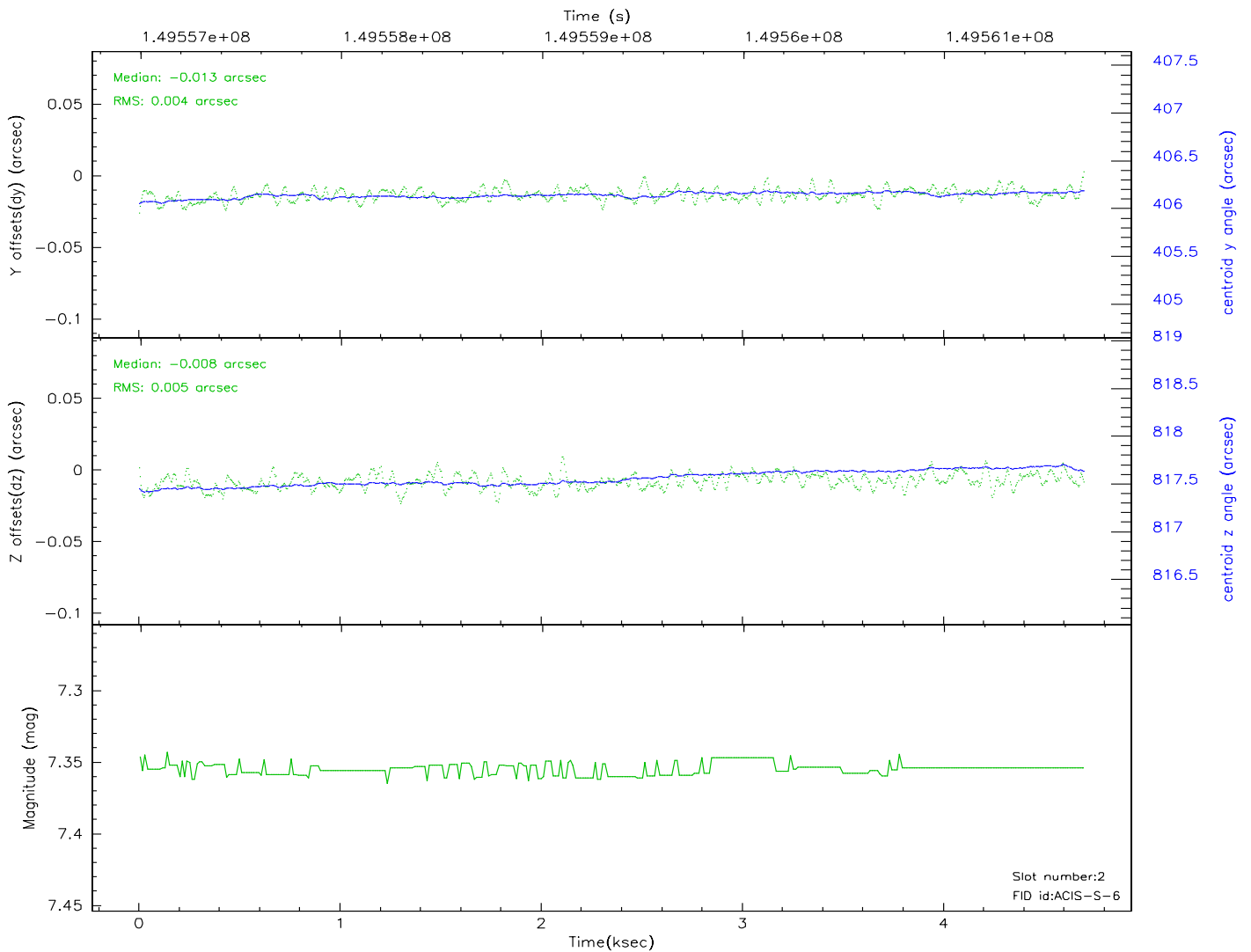
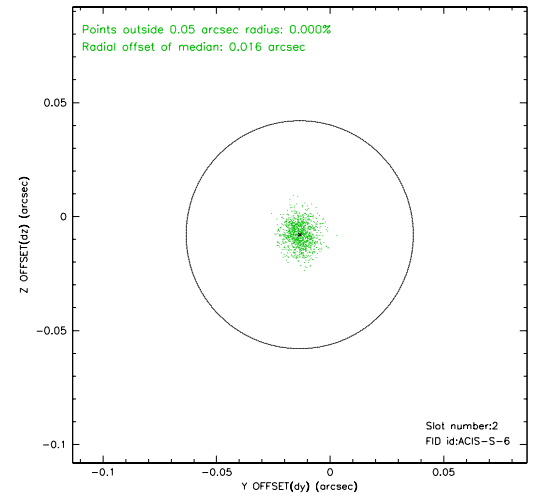
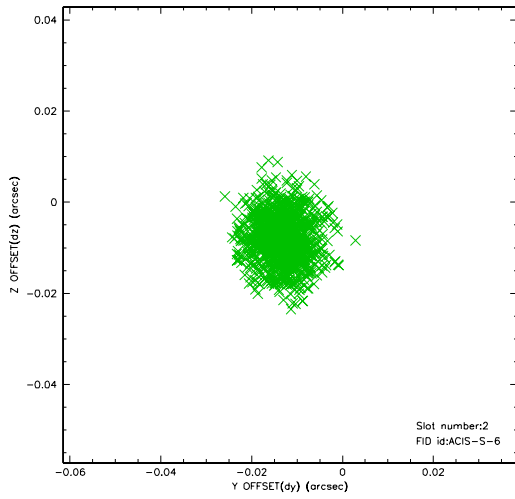
### 2.5.1 Slot 0



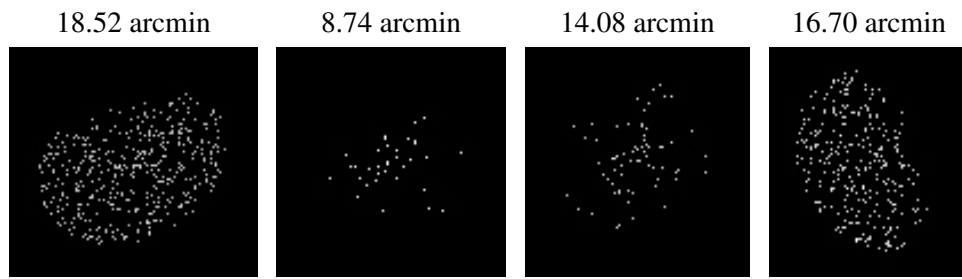
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.255

## A.2 Comments