

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 5152 - L2 Version 001  
Chandra X-Ray Center

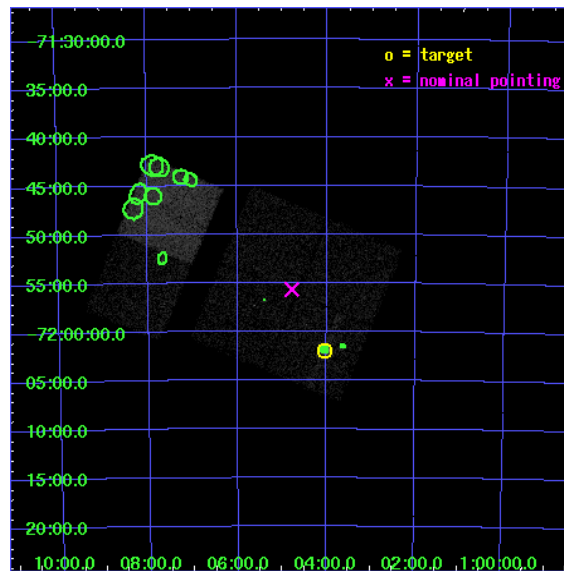
L2 Processing Date : Jun 22 2006

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>3</b>	<b>Point Sources</b>	<b>17</b>
<b>A</b>	<b>Summary</b>	<b>18</b>
A.1	Status . . . . .	18
A.2	Comments . . . . .	18

# 1 Front

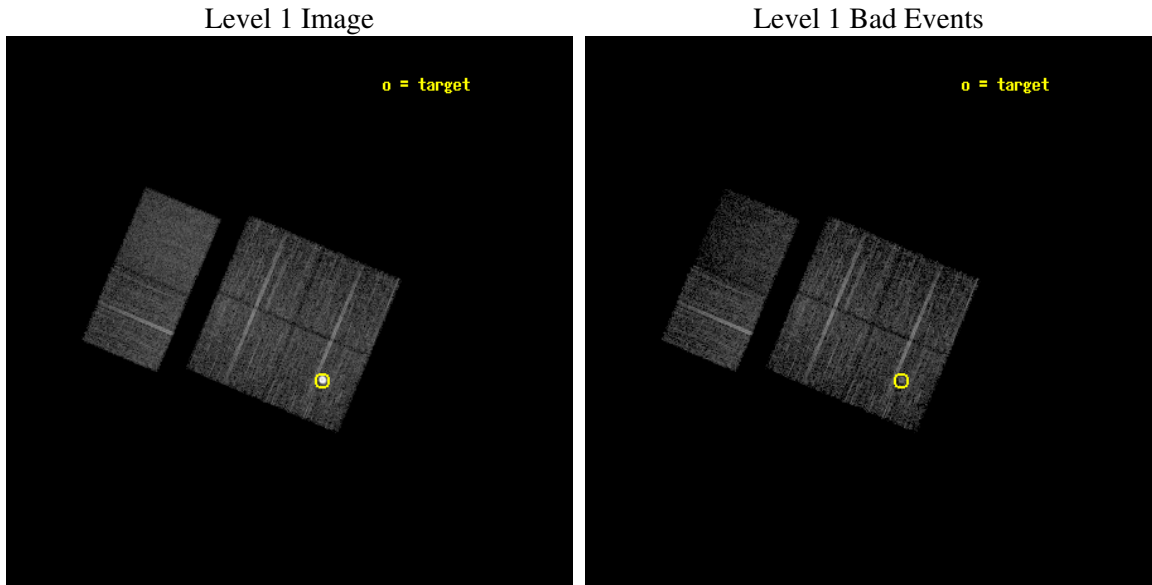
seq_num	590350
obs_id	5152
title	AO5A ACIS-I Calibration Observations of E0102-72
observer	Dr. CXC Calibration
object	E0102-72[S3,-120,-5,0,0]
dtcycle	0
cycle	P
ra_targ	16.01
dec_targ	-72.032028
ra_nom	16.195245272775
dec_nom	-71.92802140508
roll_nom	292.85433504822
revision	2
ontime	8079.9999698997
livetime	7977.6861450889
ontime0	8079.9999698997
ontime1	8079.9999698997
ontime2	8079.9999698997
ontime3	8079.9999698997
ontime6	8079.9999698997
ontime7	8079.9999698997
l2events	57543



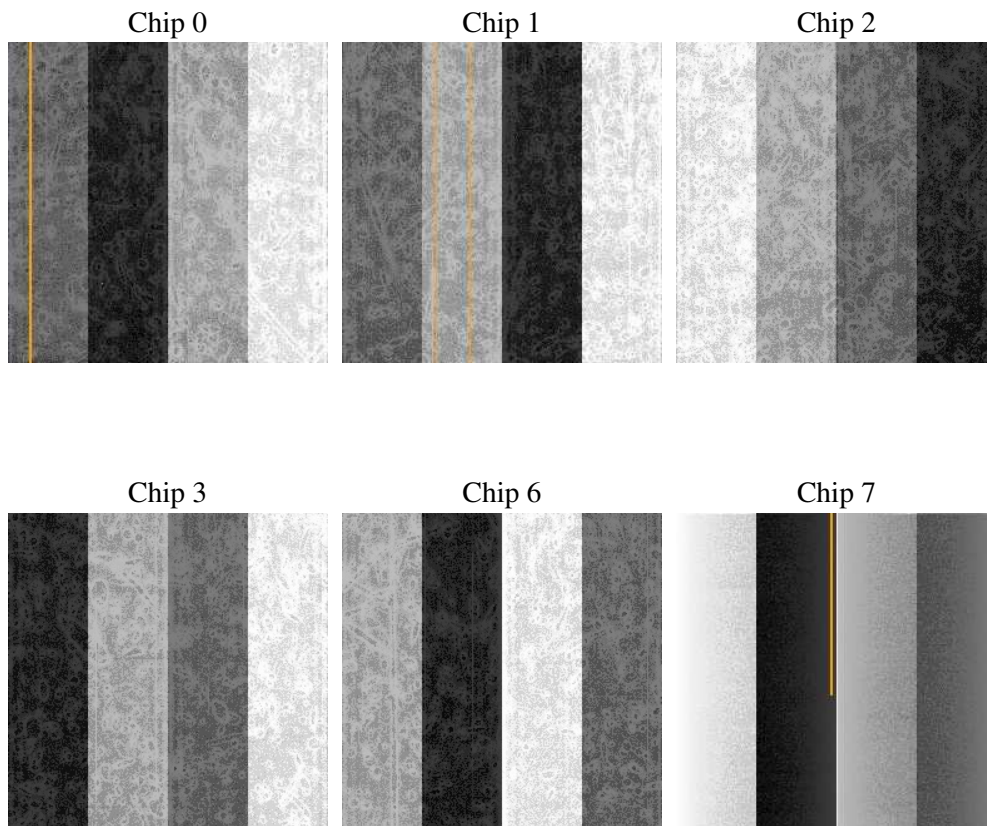
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldbver	3.2.2
date	2006-06-22T04:51:41
revision	2

sched_exp_time	8010.362000
ontime	8083.0528317094
ontime0	8083.0528317094
ontime1	8083.0528616011
ontime2	8083.0528616011
ontime3	8083.0528616011
ontime6	8083.0528317094
ontime7	8083.0528616011
l1events	248805

### 2.1.4 Events

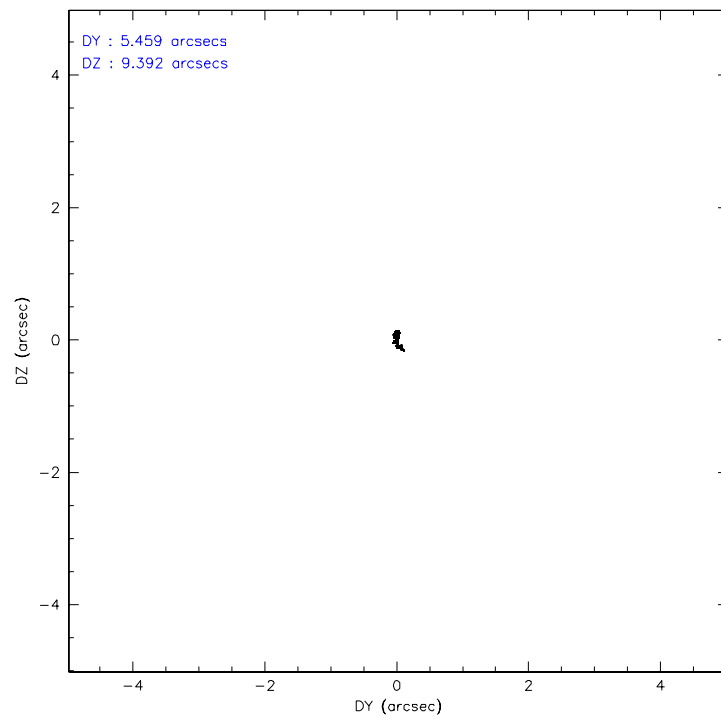
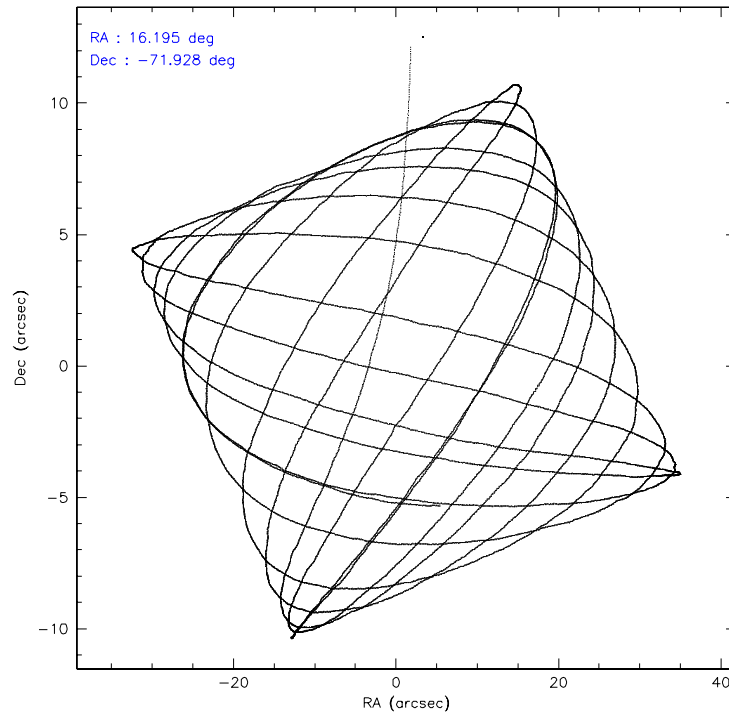
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	59962	34801	39771	37291	38475	38505
rejected events	32496	30751	36050	33691	34462	19845
rejected %	54%	88%	90%	90%	89%	51%

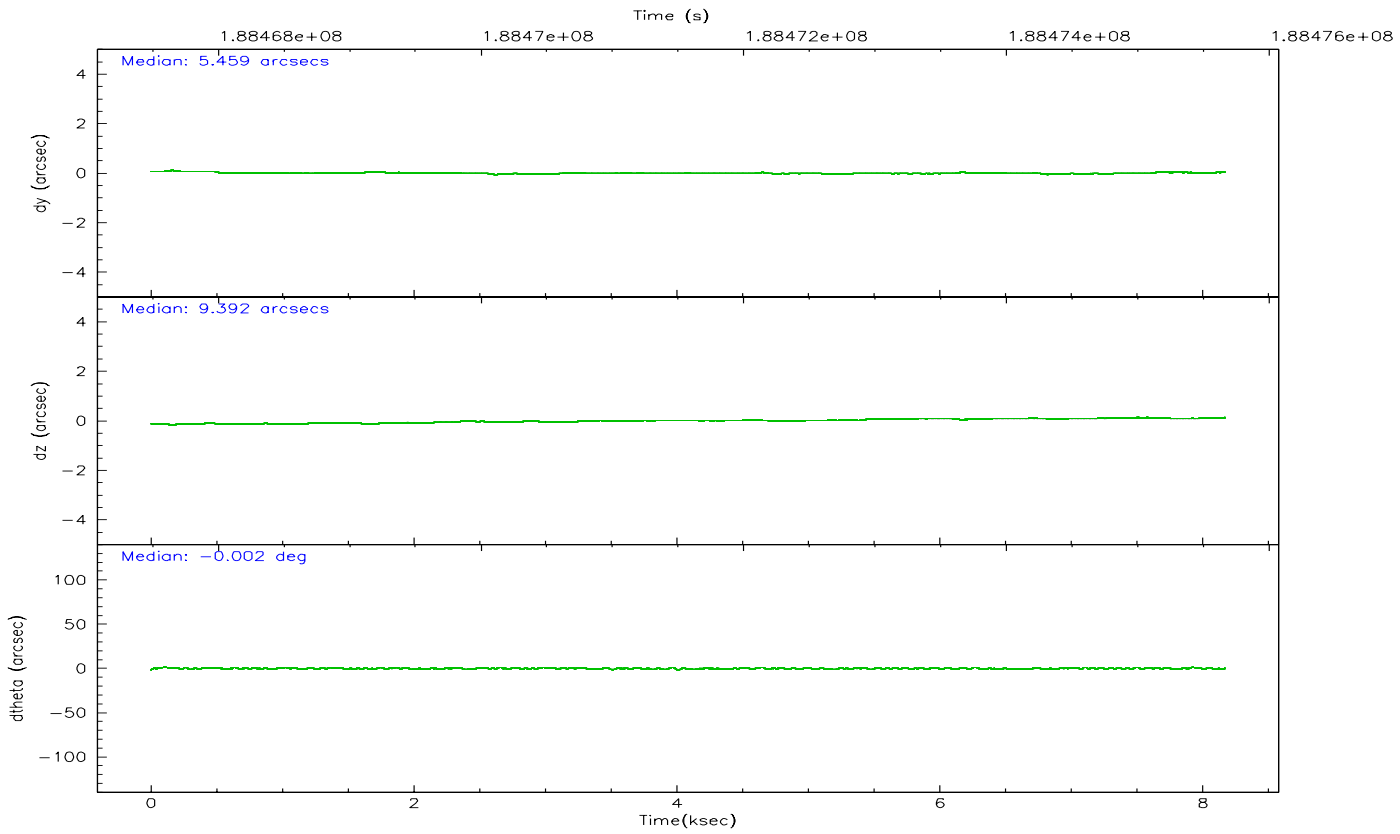
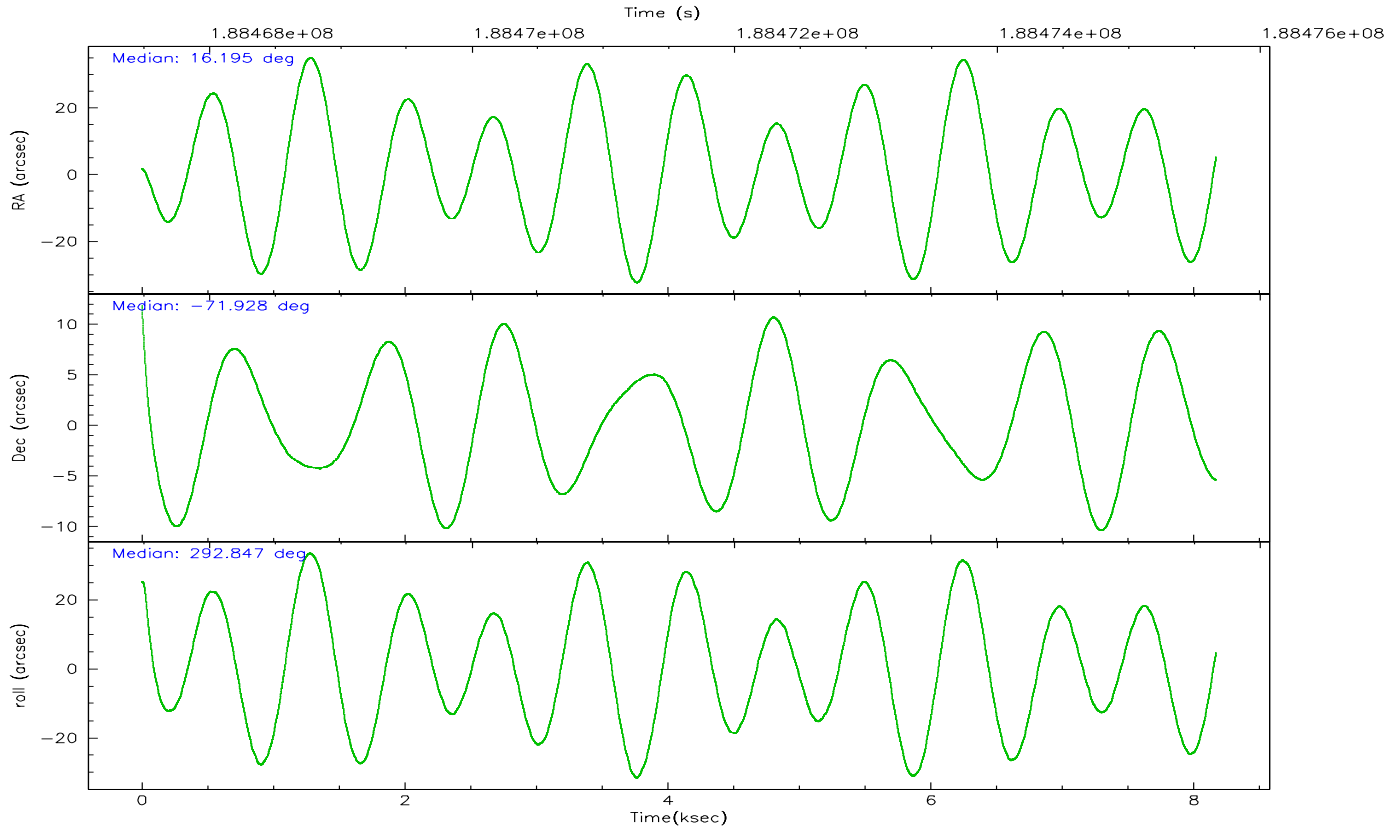
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	22405	1452	1496	1325	1493	1501
	37%	4%	3%	3%	3%	3%
grade 1 events	166	16	26	16	19	24
	0%	0%	0%	0%	0%	0%
grade 2 events	2532	875	787	798	840	4582
	4%	2%	1%	2%	2%	11%
grade 3 events	876	477	410	388	431	1166
	1%	1%	1%	1%	1%	3%
grade 4 events	784	445	400	422	431	1168
	1%	1%	1%	1%	1%	3%
grade 5 events	1183	1205	1075	1363	1361	2935
	1%	3%	2%	3%	3%	7%
grade 6 events	883	801	631	667	818	10243
	1%	2%	1%	1%	2%	26%
grade 7 events	31133	29530	34946	32312	33082	16886
	51%	84%	87%	86%	85%	43%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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	16.124908	16.19524527277497	Alternating exposures requested	N	N
Pointing Dec	-71.911576	-71.92802140508009	Primary exposure time	0.000000	3.2
Pointing Roll	292.578764	292.8543350482228			
Window start time	181353664.184000	181353664.184000			
Window stop time	189216064.184000	189216064.184000			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	188467647.184000	188466502.39911			
Observation start date	2003-12-22T08:06:23	2003-12-22T07:48:22			
Observation end time	188475657.184000	188475971.86202			
Observation end date	2003-12-22T10:19:53	2003-12-22T10:26:11			
Read mode	TIMED	TIMED			

## 2.3 Aspect



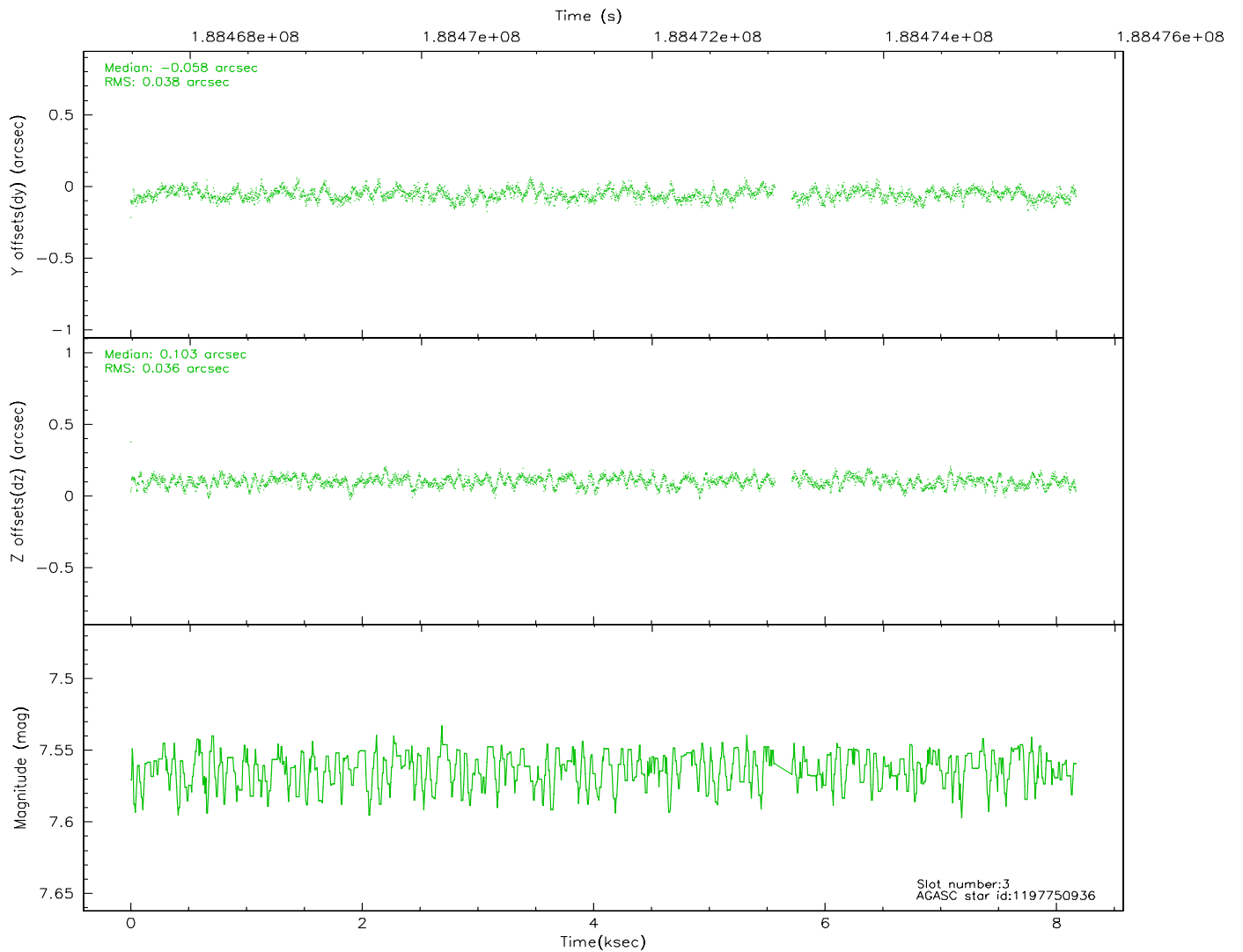
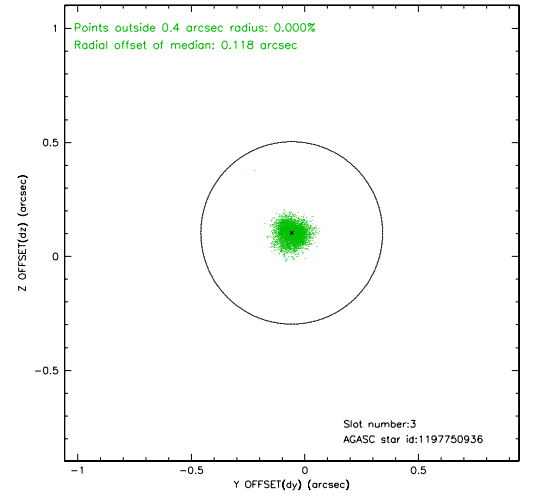
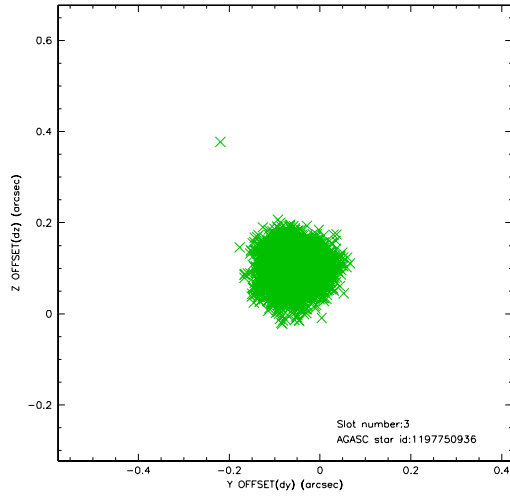


### Slot Statistics

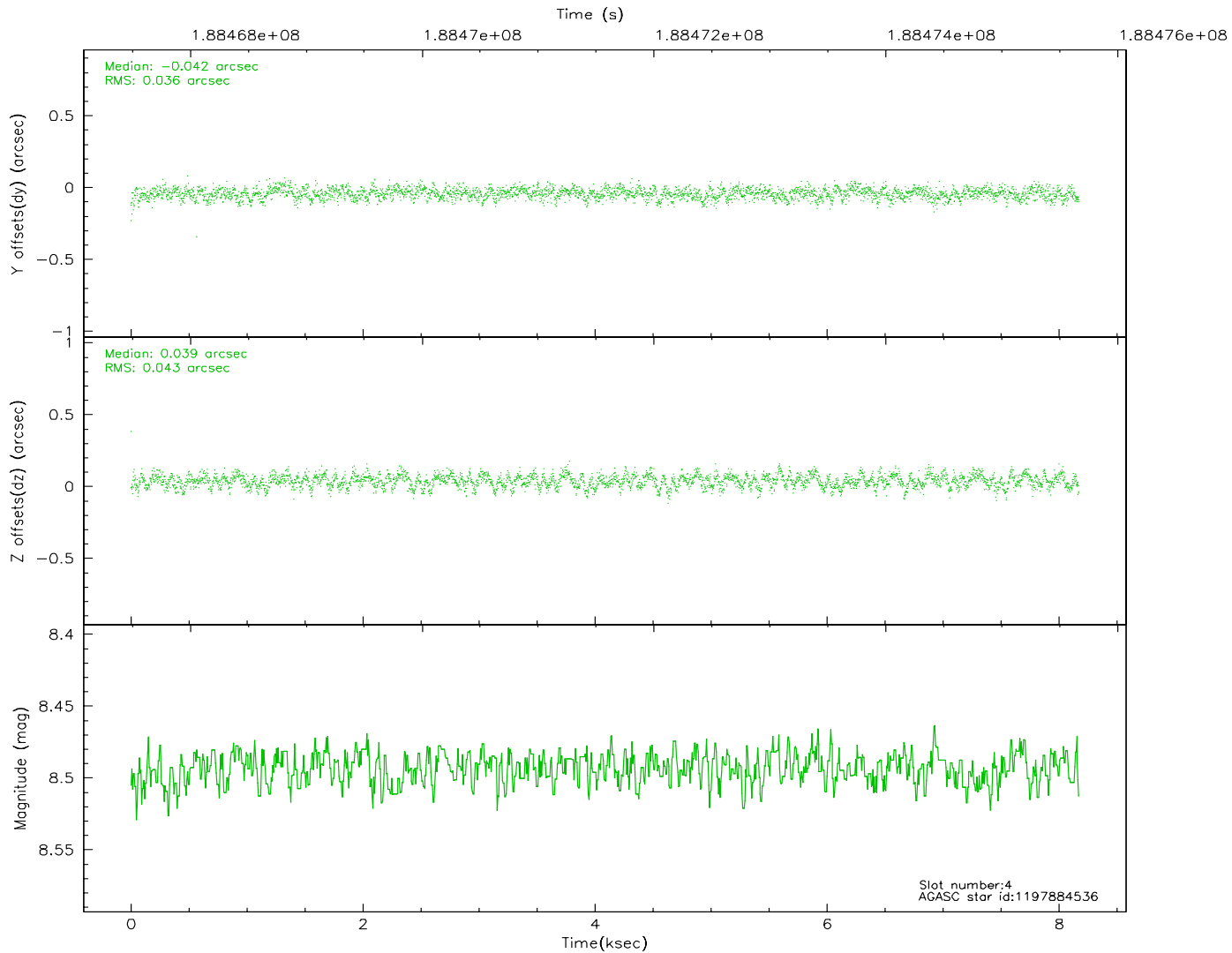
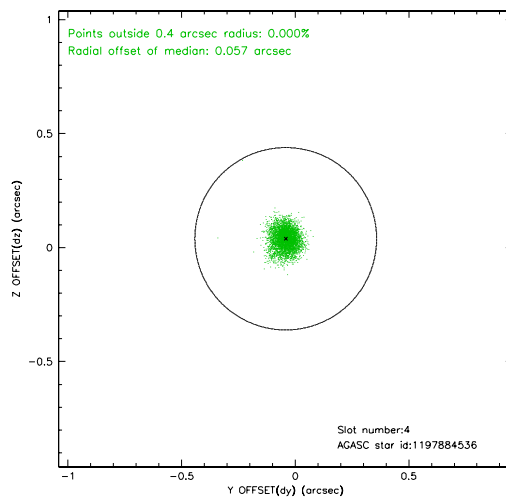
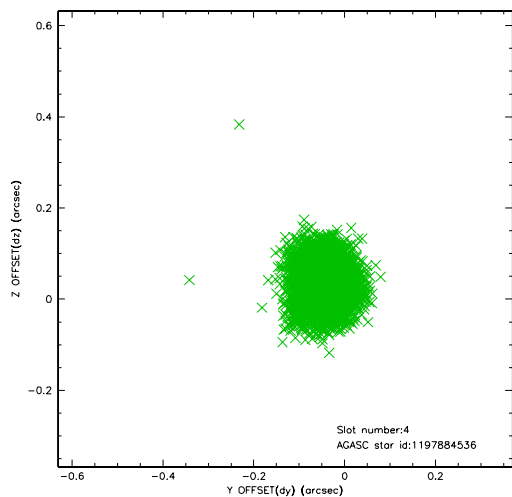
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	1993	-0.026	0.079	0.008	0.013	0.000000	0.000000	934.24	-832.76
1	FID	ACIS-I-5	7.23	1993	-0.105	0.022	0.005	0.009	0.000000	0.000000	-1813.57	1064.32
2	FID	ACIS-I-6	7.25	1993	0.039	-0.030	0.008	0.013	0.000000	0.000000	399.10	1709.55
3	GUIDE	1197750936	7.56	3913	-0.058	0.103	0.056	0.088	15.387940	-71.549550	-1520.61	-276.65
4	GUIDE	1197884536	8.49	3983	-0.042	0.039	0.060	0.096	17.160729	-71.835289	201.75	1175.20
5	GUIDE	1197884712	8.31	3985	0.079	0.028	0.057	0.090	16.087398	-72.252690	1118.69	-508.79
6	GUIDE	1197885328	7.24	3986	0.013	-0.147	0.049	0.078	16.283090	-71.733943	-521.13	410.61
7	GUIDE	1198189696	7.39	3985	0.004	-0.020	0.061	0.097	15.223750	-72.697522	2249.39	-1979.45

## 2.4 Star Slots

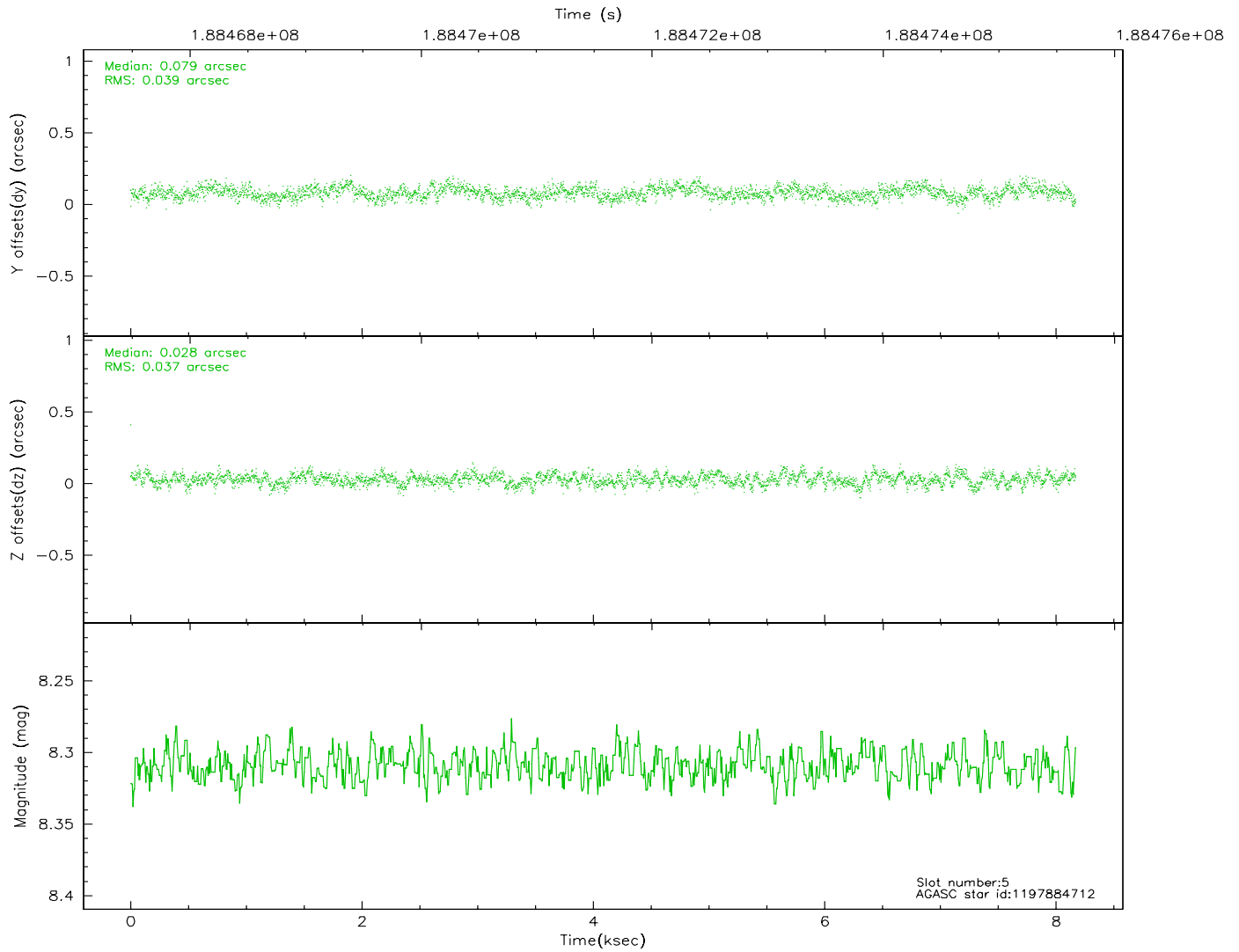
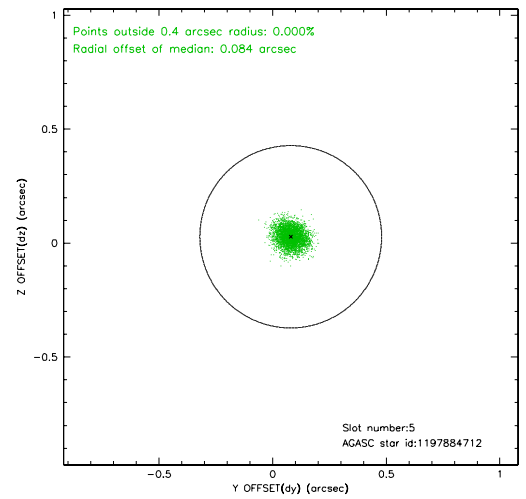
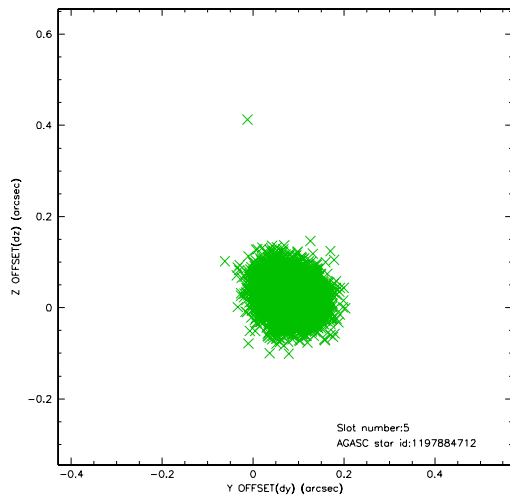
### 2.4.1 Slot 3



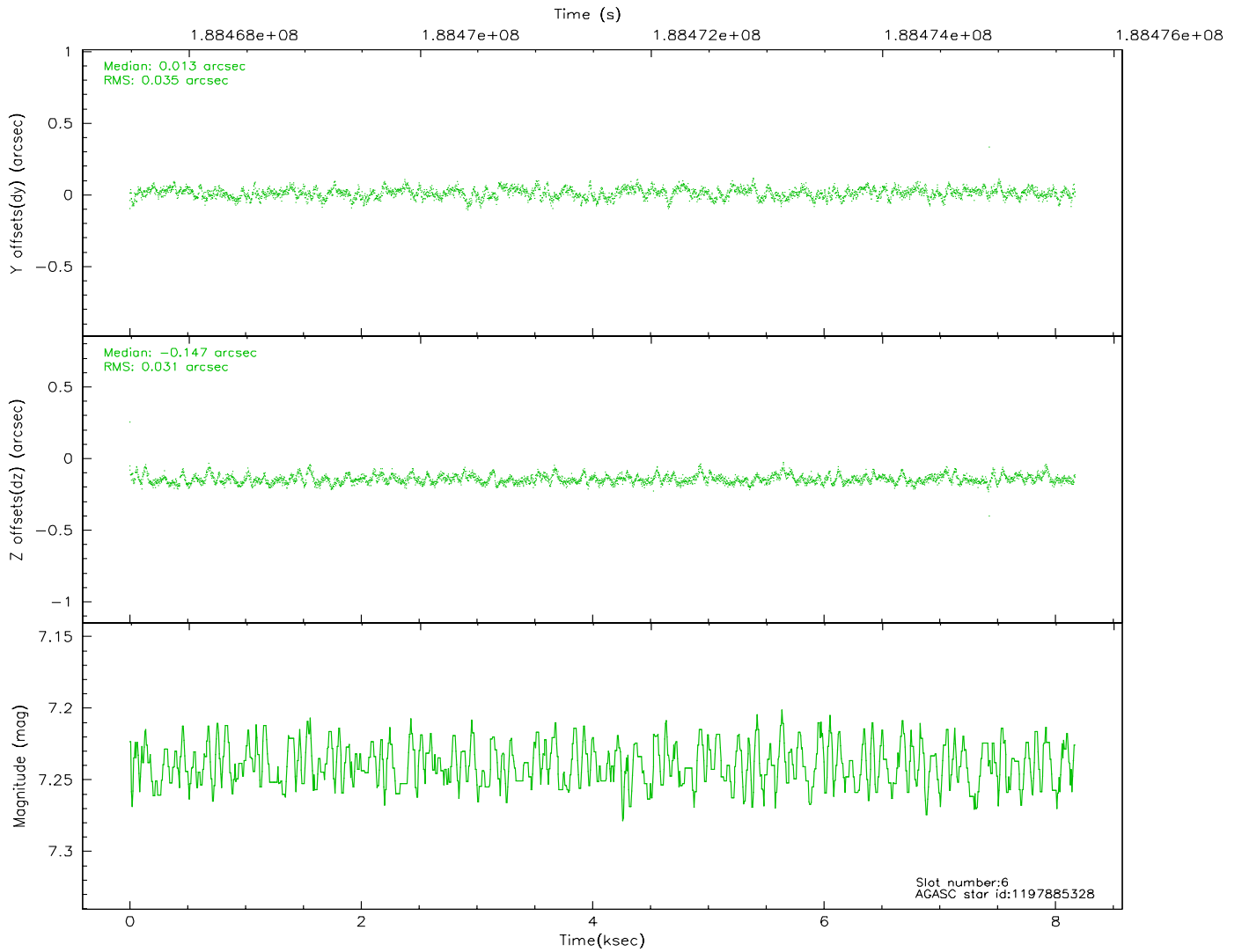
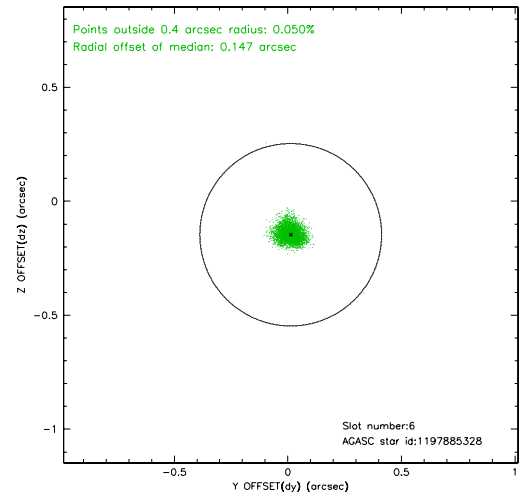
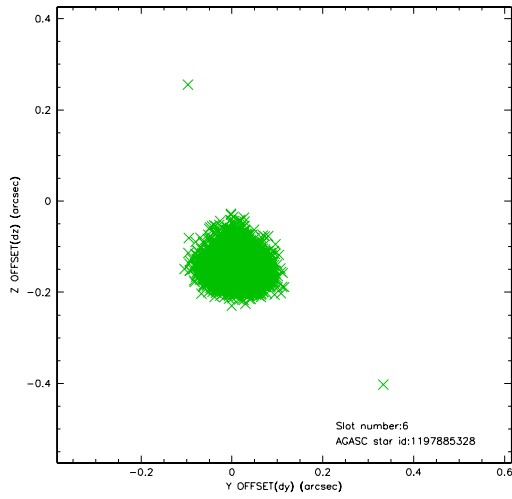
## 2.4.2 Slot 4



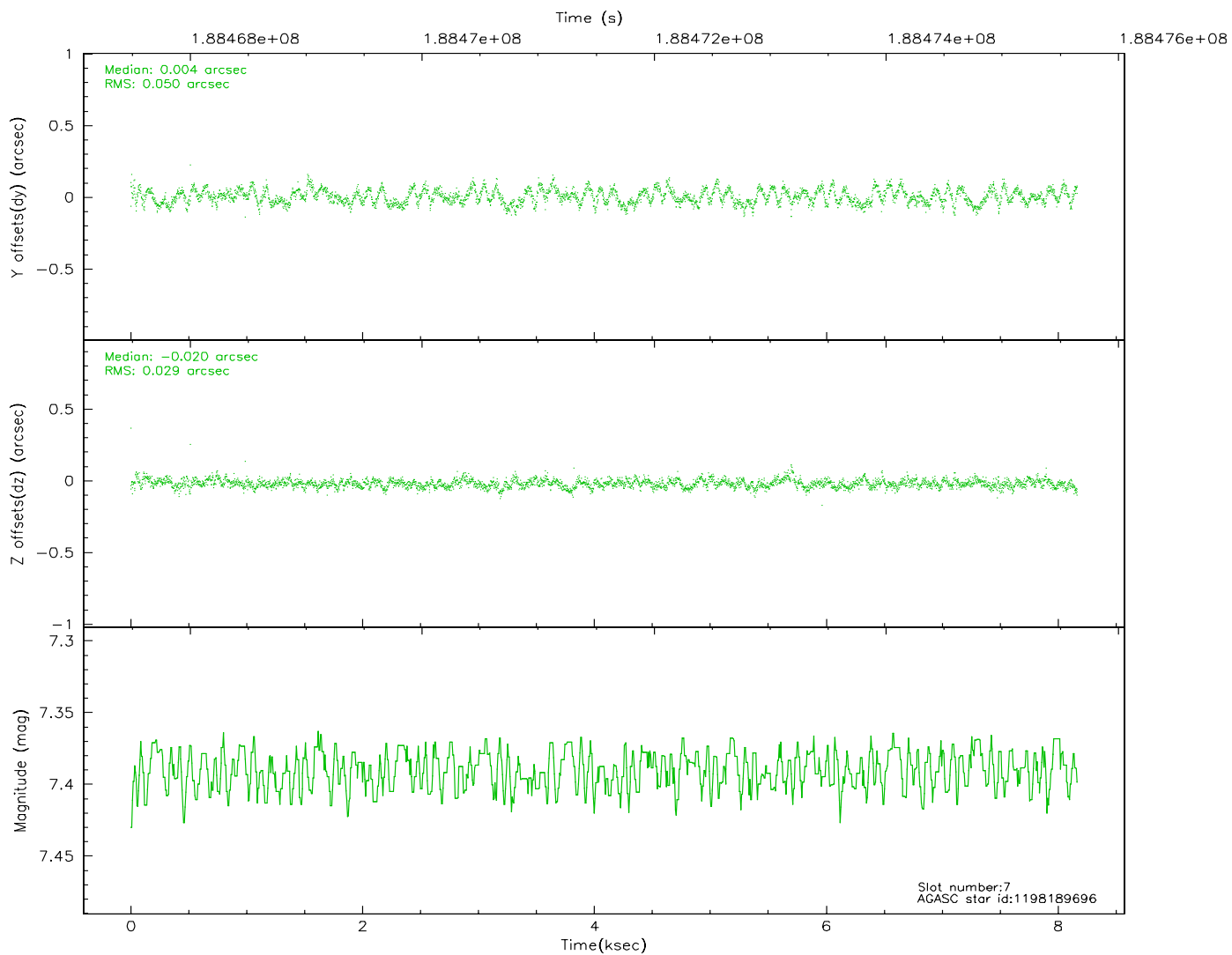
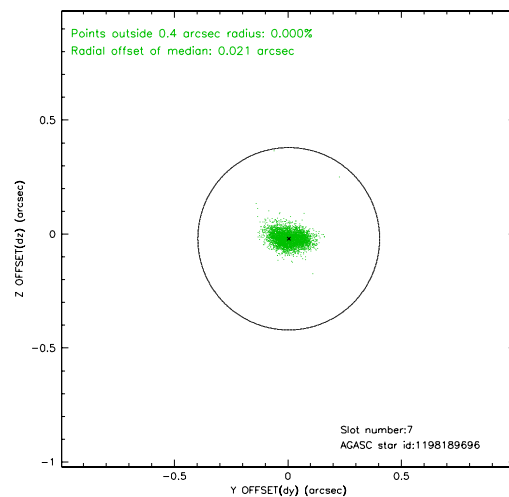
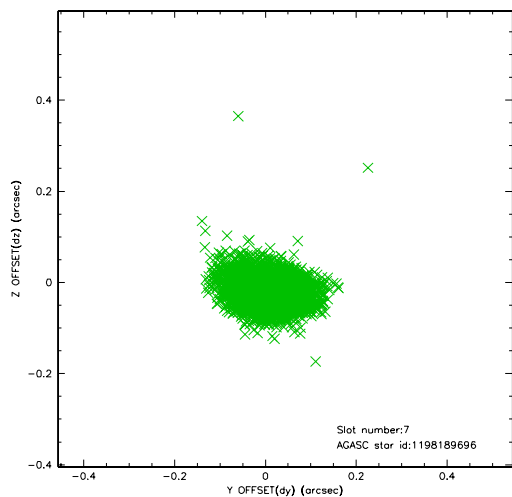
### 2.4.3 Slot 5



### 2.4.4 Slot 6

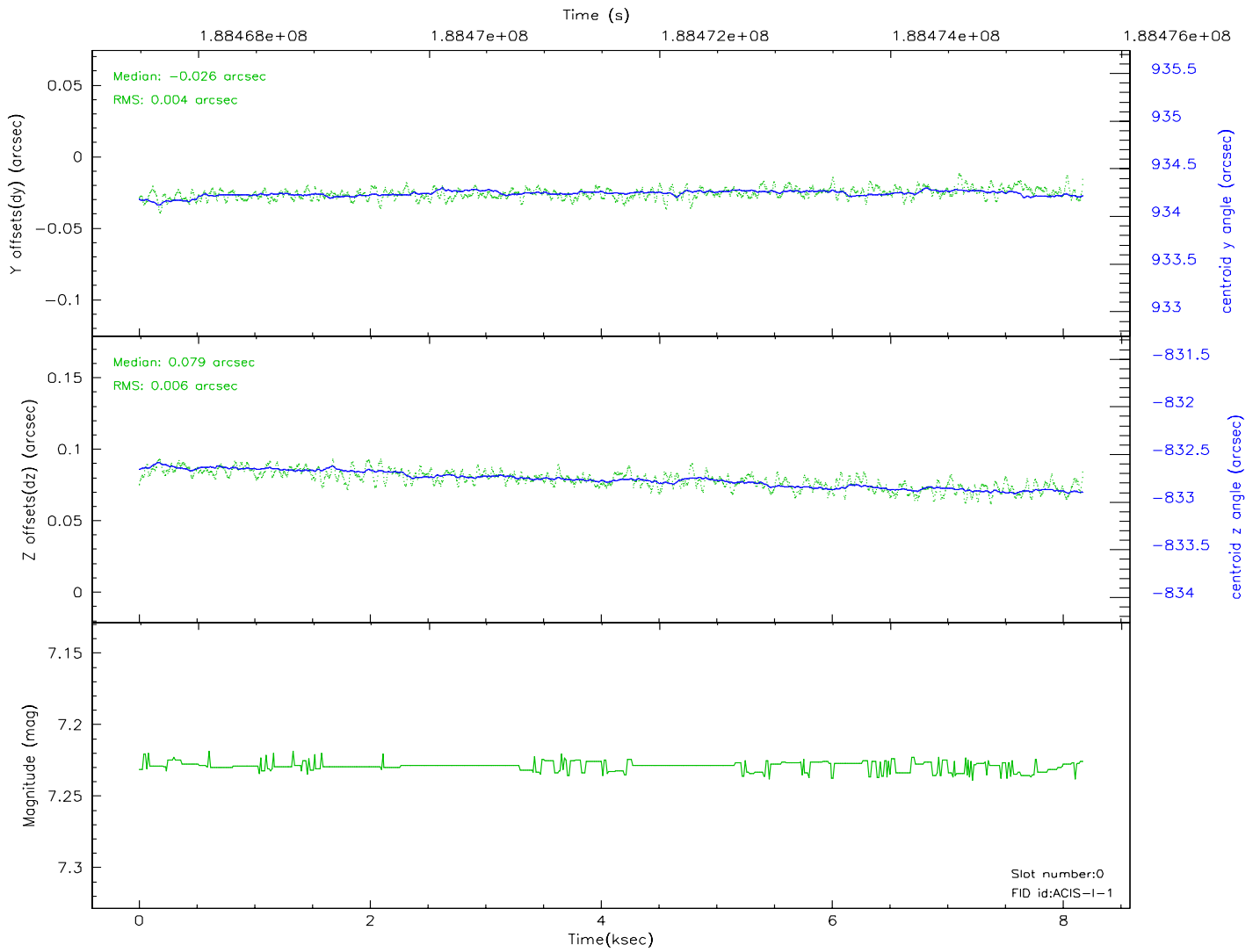
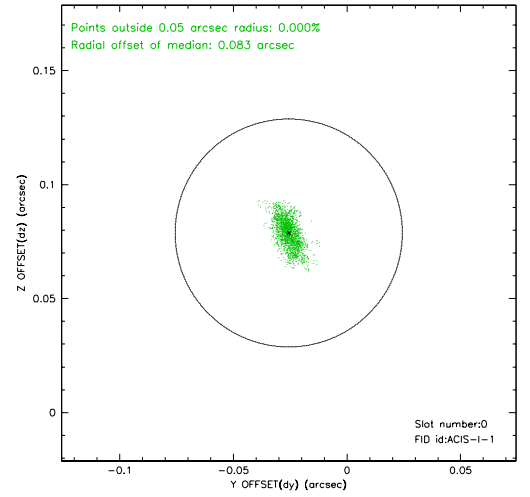
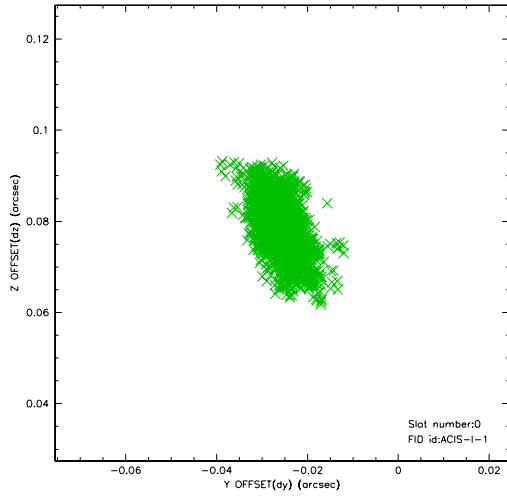


## 2.4.5 Slot 7

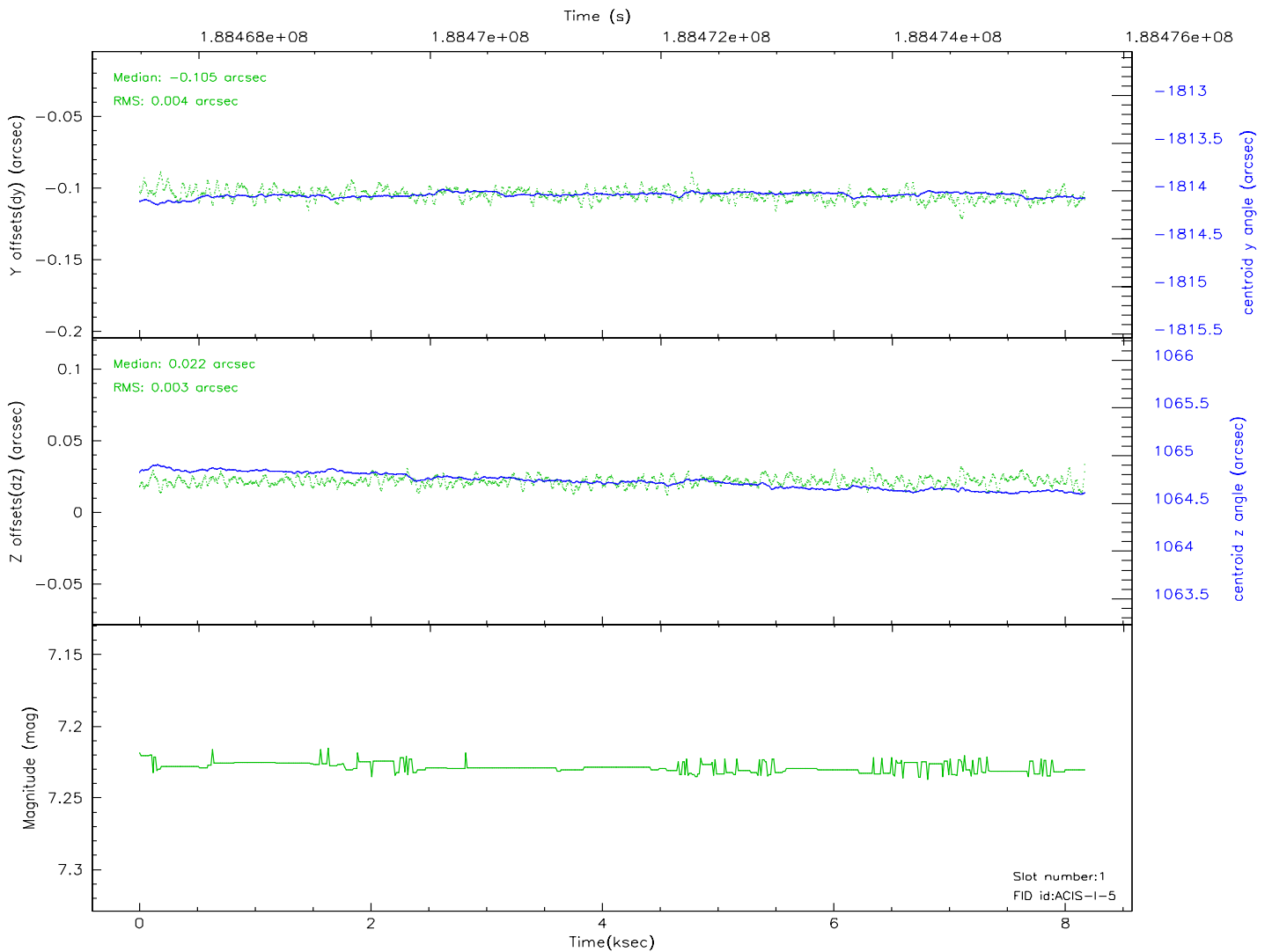
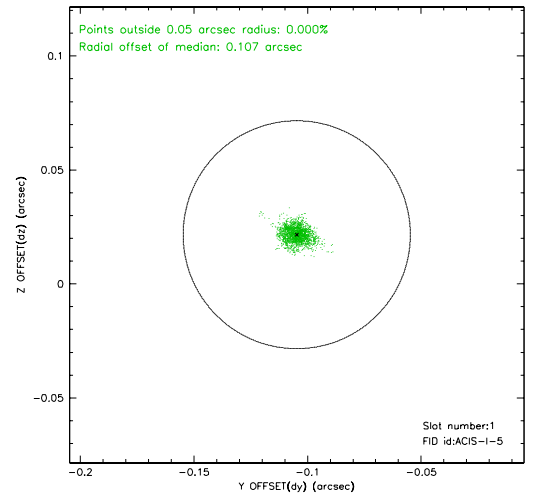
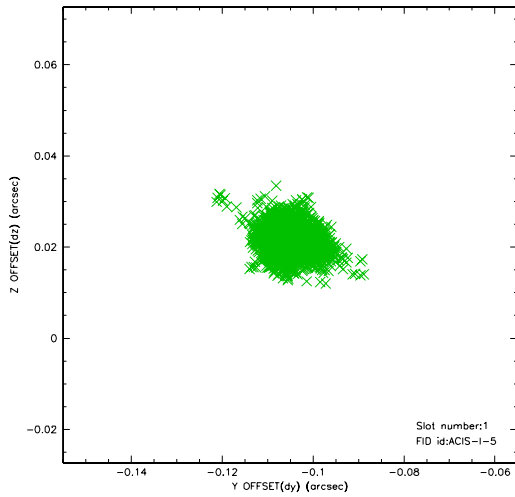


## 2.5 FID Slots

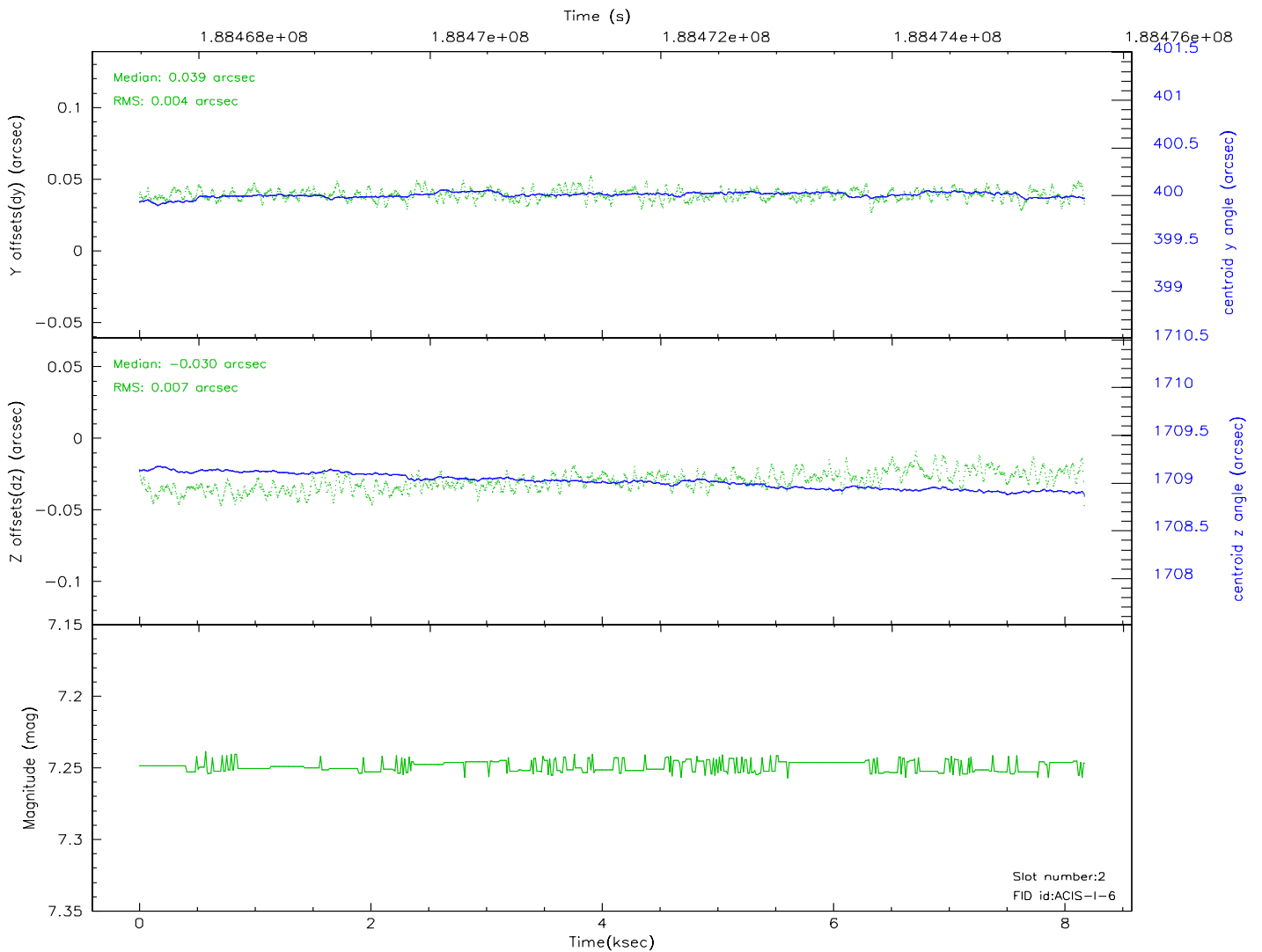
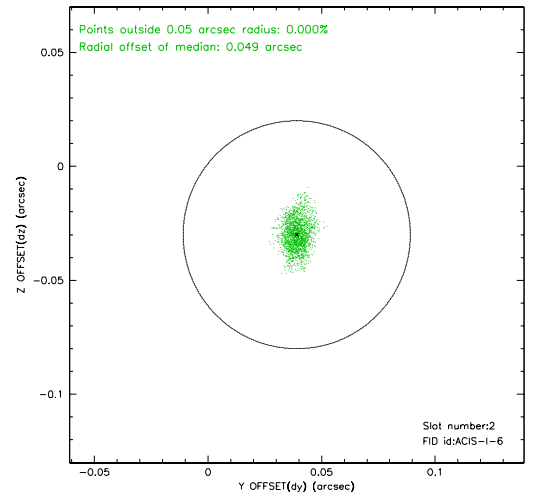
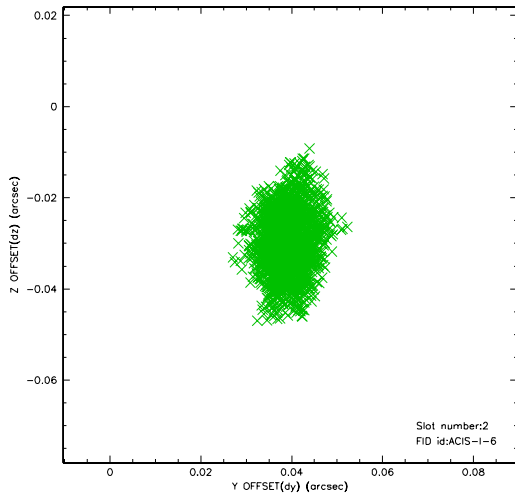
### 2.5.1 Slot 0



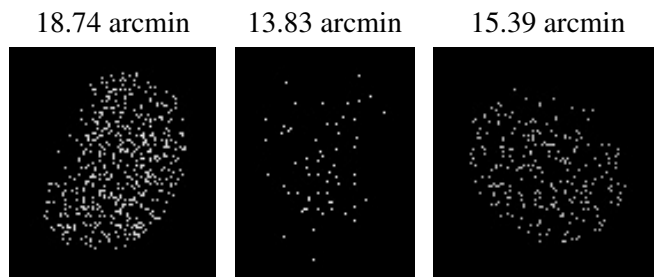
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.079

## A.2 Comments

Window constraint met.

label says S3, snr lands on i0, presumed ok since observation for calibration