

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 14257 - L2 Version 1  
Chandra X-Ray Center

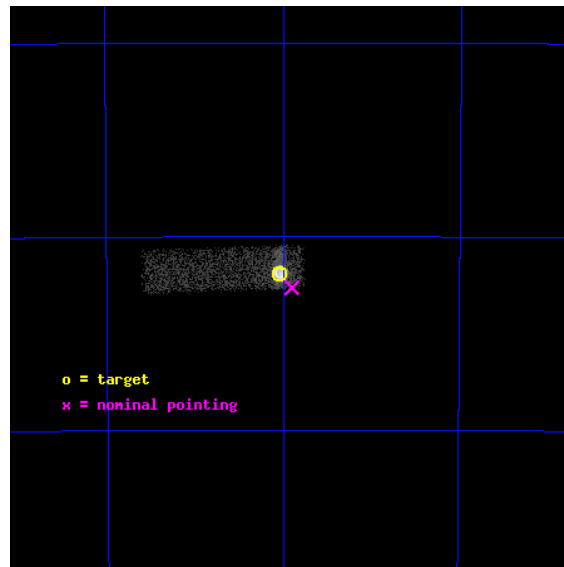
L2 Processing Date : Jan 15 2012

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# 1 Front

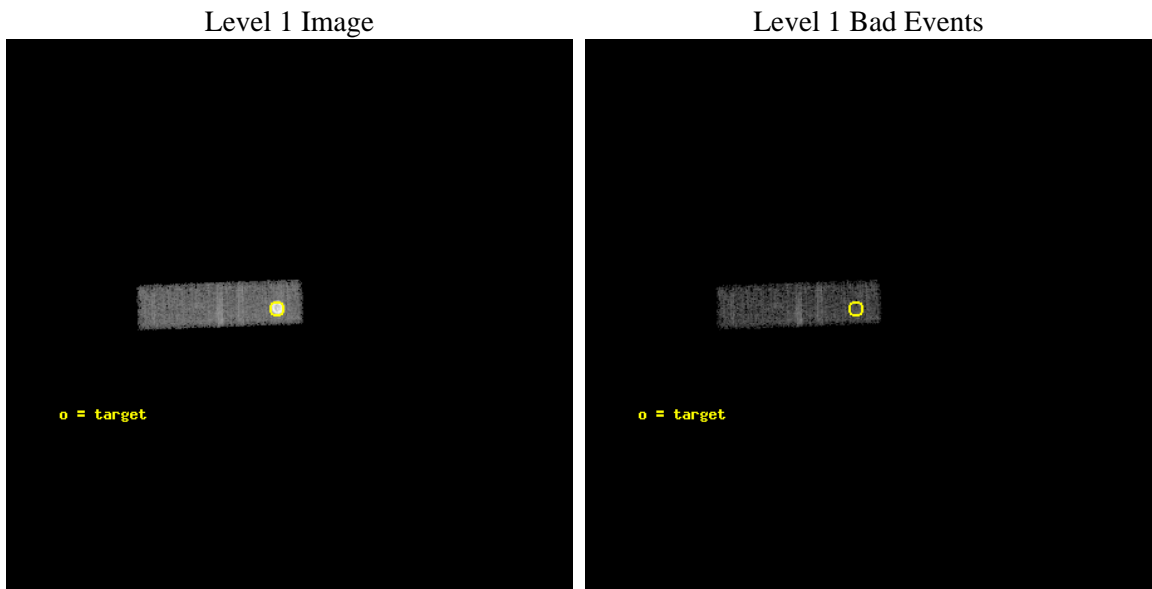
seq_num	590510	Sequence number
obs_id	14257	Observation id
title	AO-13 Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72 I3,-120,-0.5,0.5,0	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.975914831966	Nominal RA [deg]
dec_nom	-72.04435016802	Nominal Dec [deg]
roll_nom	268.11866263836	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20027.637809634	Sum of GTIs [s]
livetime	19050.354617744	Livetime [s]
ontime3	20027.637809634	Sum of GTIs [s]
l2events	56756	Number of level 2 events



## 2 OBI

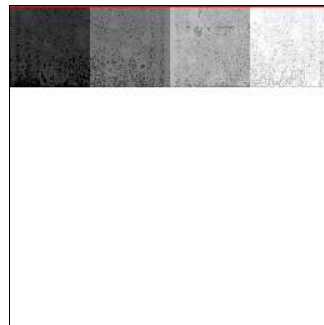
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 3



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	20027.637809634	Sum of GTIs [s]
caldbver	4.4.7	&#160	ontime3	20027.637809634	Sum of GTIs [s]
date	2012-01-15T07:33:46	Date and time of file creation	l1events	91317	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

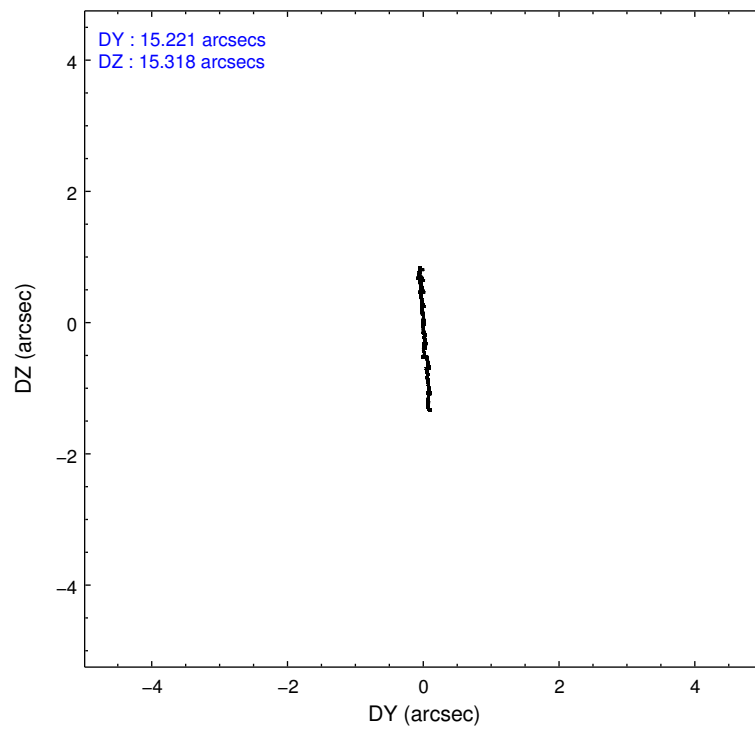
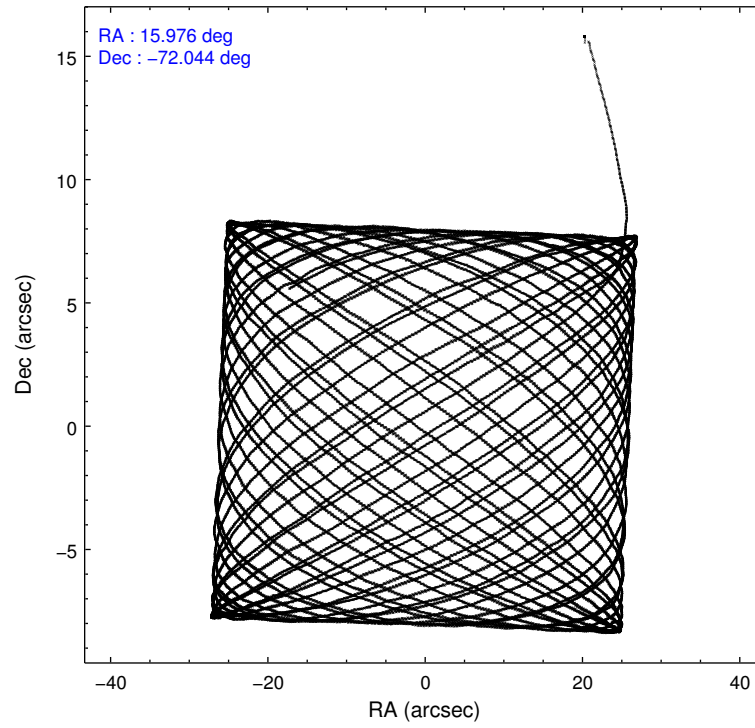
	<b>ccd 3</b>
level 1 events	91317
rejected events	33897
rejected %	<b>37%</b>

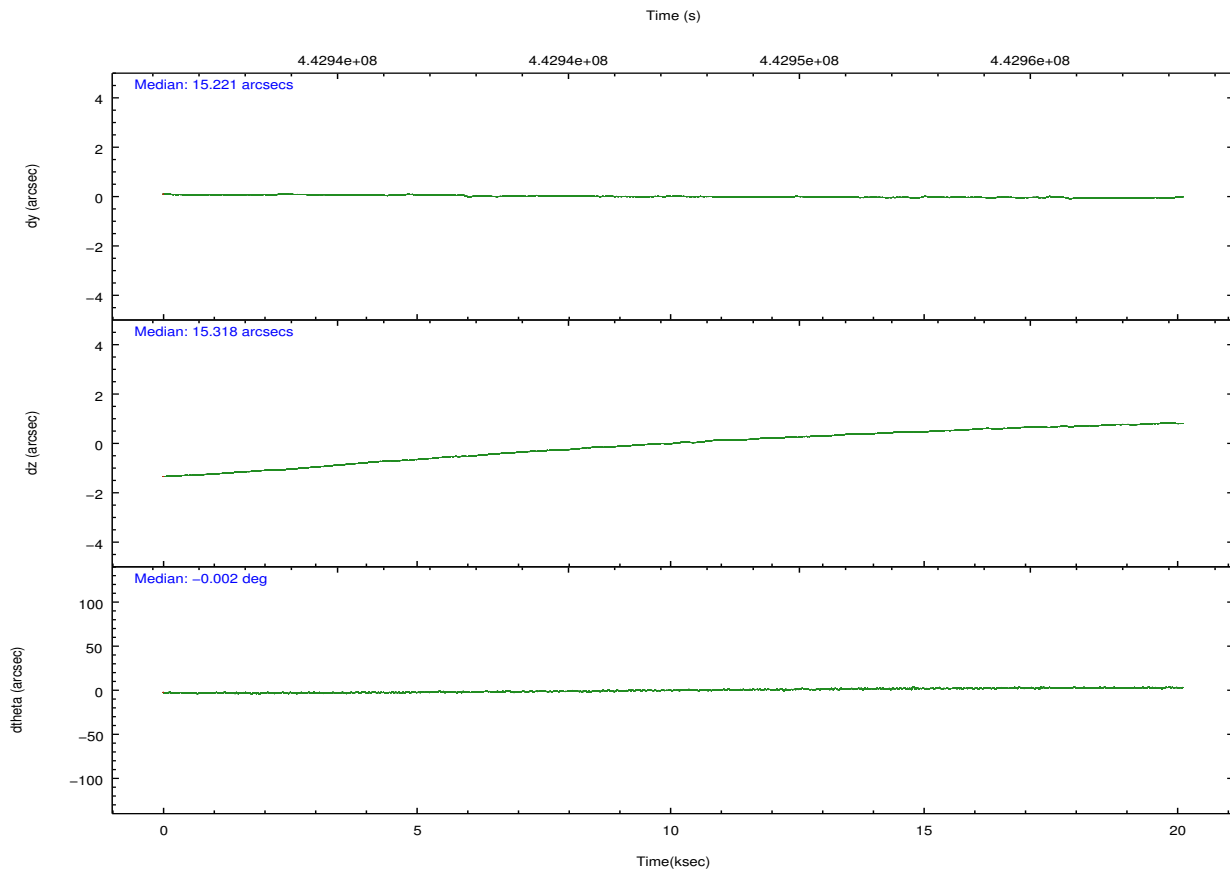
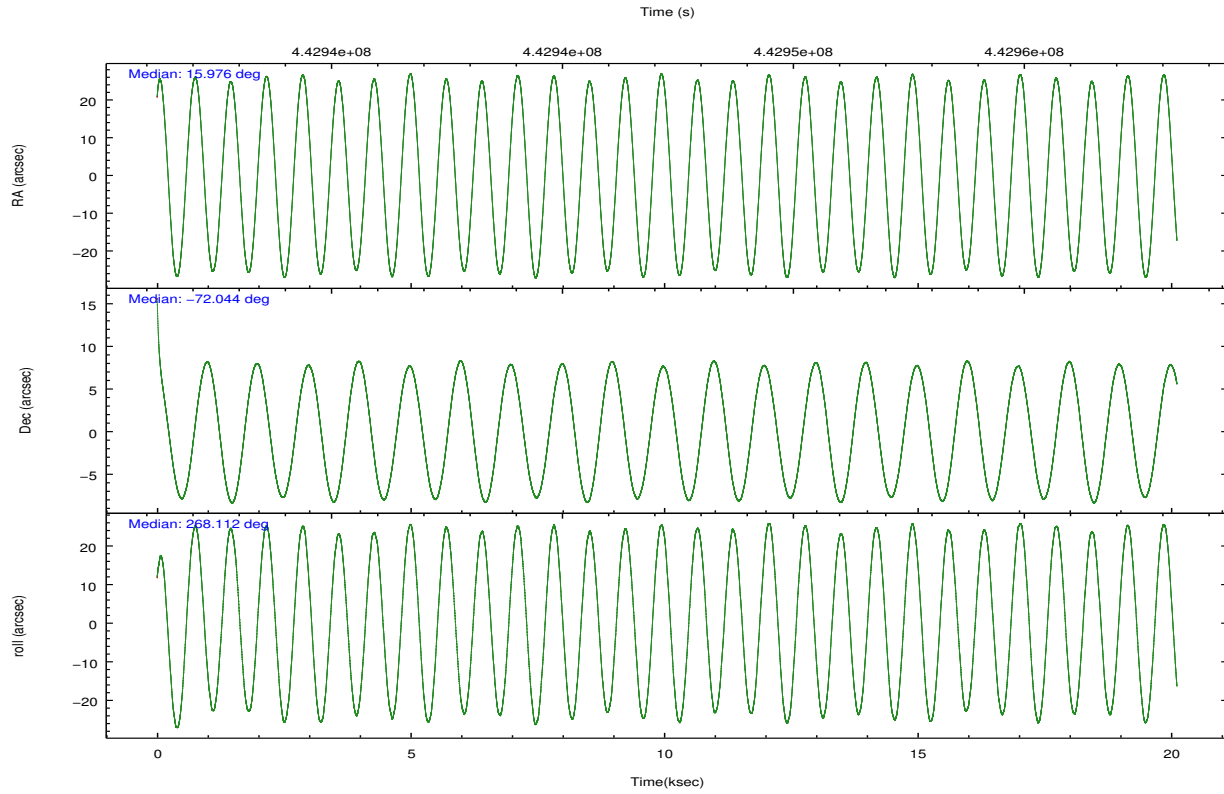
	<b>ccd 3</b>
grade 0 events	49711
	54%
grade 1 events	144
	0%
grade 2 events	3982
	4%
grade 3 events	1431
	1%
grade 4 events	1360
	1%
grade 5 events	1462
	1%
grade 6 events	943
	1%
grade 7 events	32284
	35%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3	ACIS-3	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	15.933591	15.97591483196581	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-72.020158	-72.04435016802046	Subarray start row	768	768
[deg] Pointing Roll	267.869718	268.1186626383602	Subarray row count	256	256
[s] Window start time (MET)	439084866.184000	439084866.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	452131266.184000	452131266.184000	[s] Primary exposure time	0.000000	0.8
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	442937321.184000	442935931.55781			
Observation start date	2012-01-14T14:07:35	2012-01-14T13:45:31			
[s] Observation end time (MET)	442957321.184000	442957734.33396			
Observation end date	2012-01-14T19:40:55	2012-01-14T19:48:54			
Read mode	TIMED	TIMED			

## 2.3 Aspect



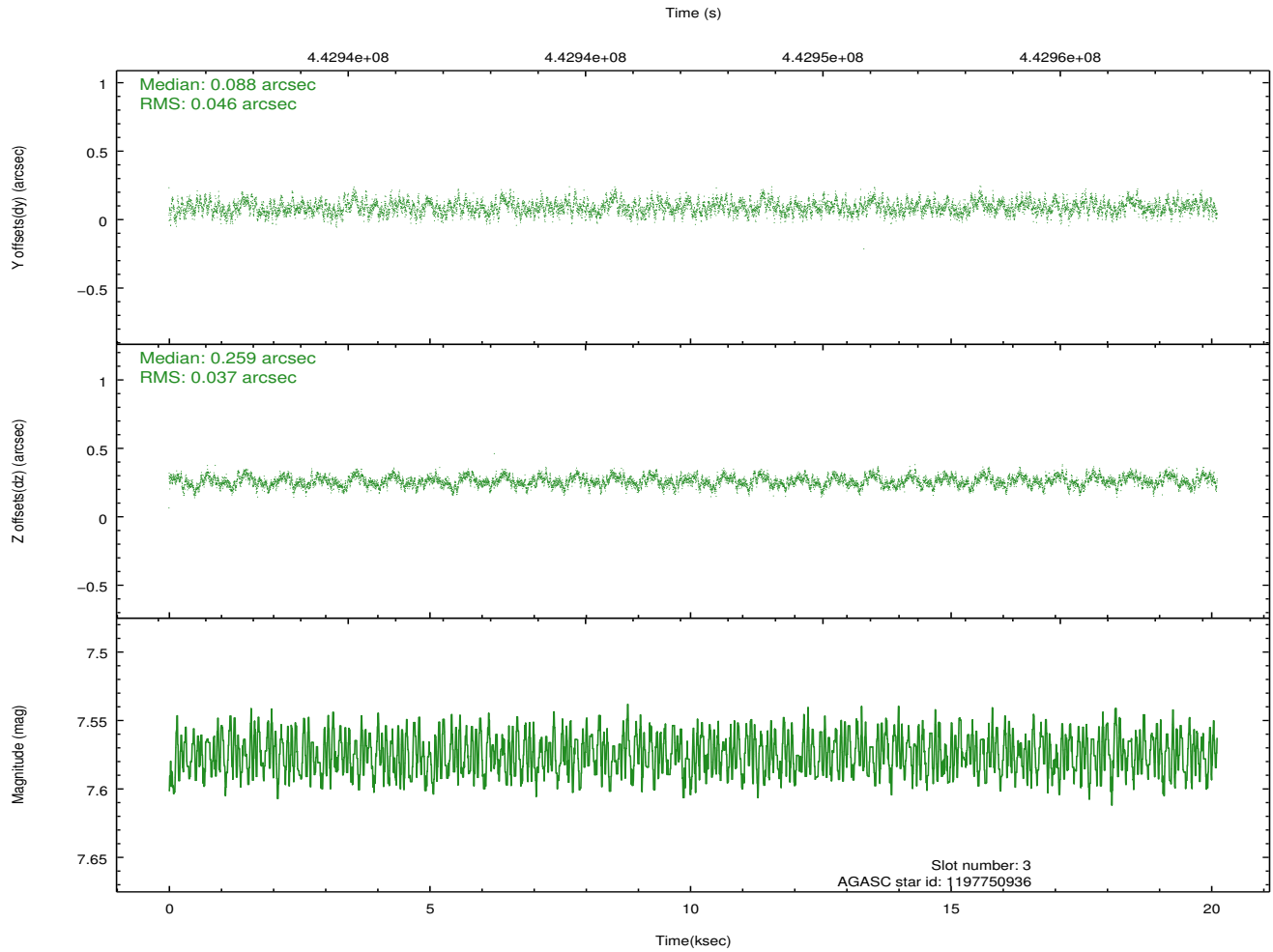
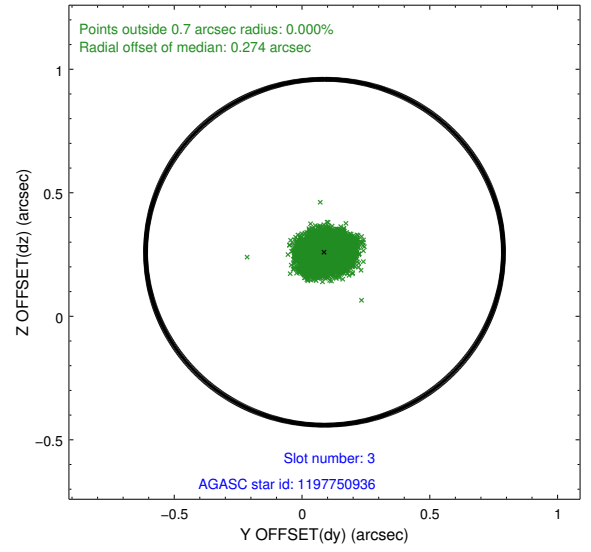
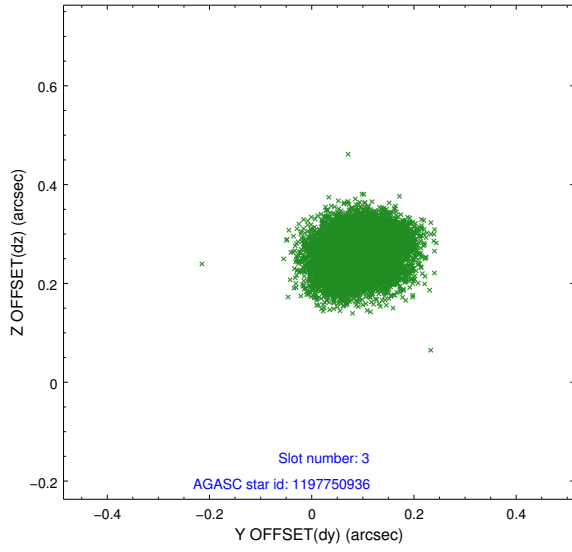


### Slot Statistics

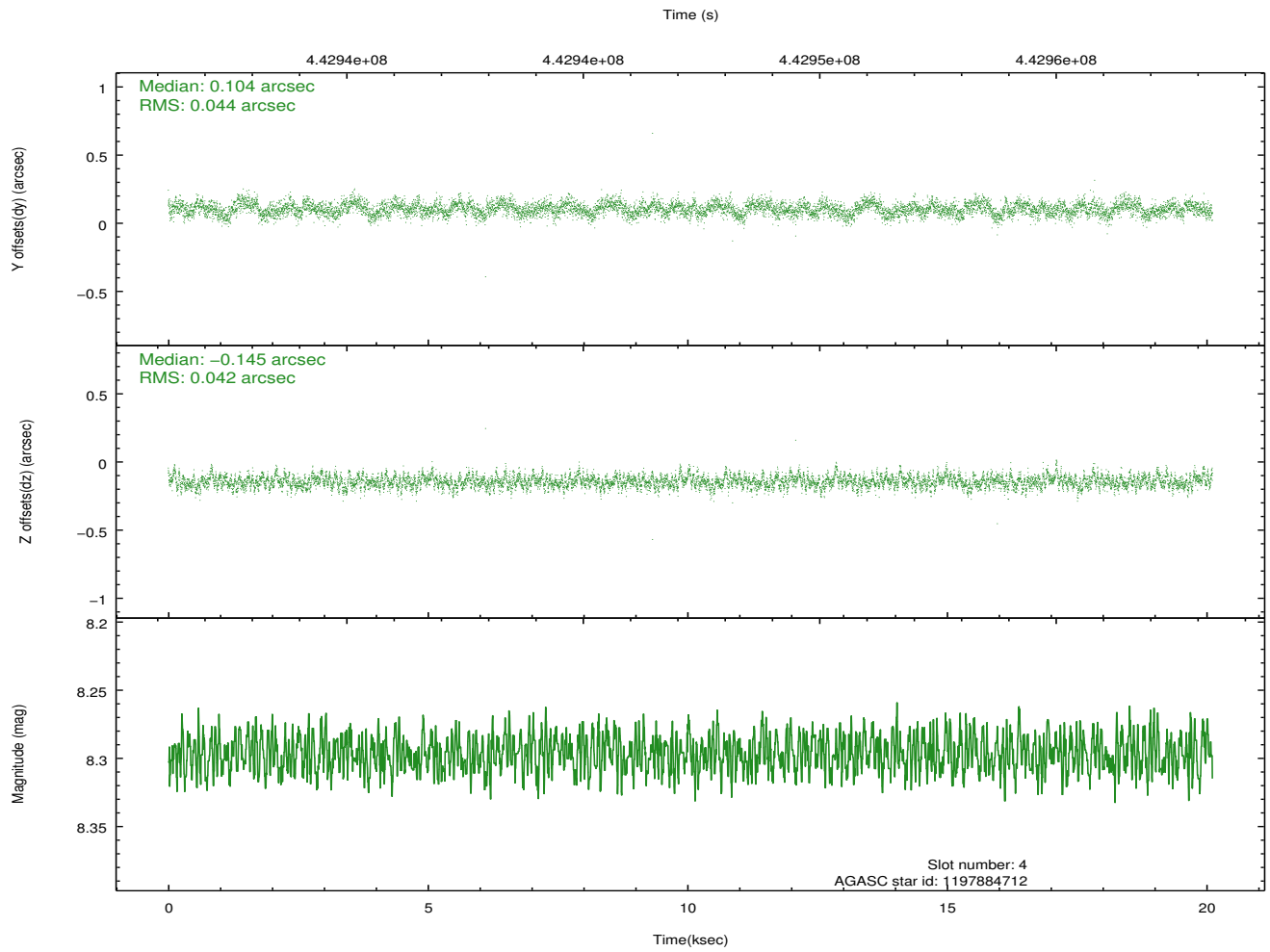
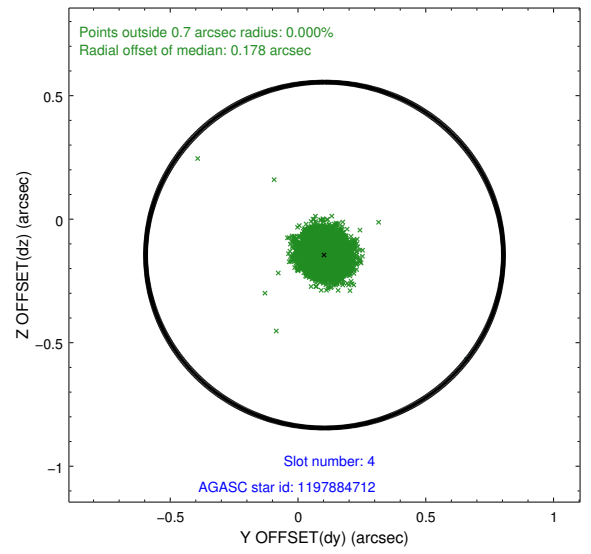
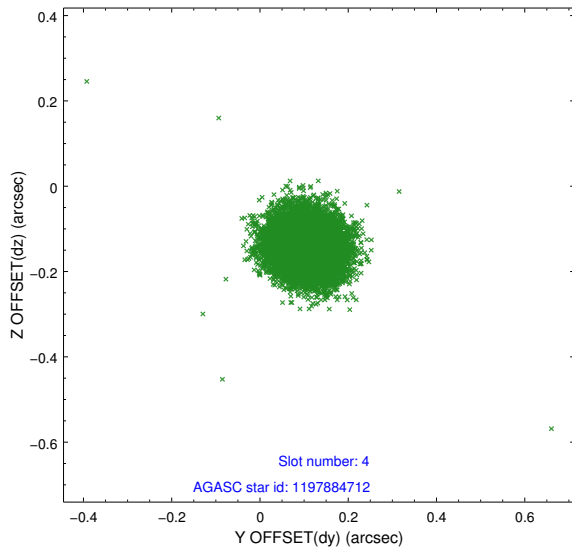
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.14	4906	0.052	-0.032	0.033	0.055	0.000000	0.000000	924.28	-838.85
1	FID	ACIS-I-5	7.14	4906	-0.237	0.047	0.010	0.016	0.000000	0.000000	-1824.02	1058.61
2	FID	ACIS-I-6	7.14	4906	0.093	0.056	0.024	0.052	0.000000	0.000000	389.65	1703.33
3	GUIDE	1197750936	7.58	9810	0.088	0.259	0.064	0.101	15.387940	-71.549550	-1666.10	-683.95
4	GUIDE	1197884712	8.30	9809	0.104	-0.145	0.064	0.104	16.087398	-72.252690	830.80	199.68
5	GUIDE	1198283128	7.83	9809	-0.107	-0.011	0.089	0.132	17.272580	-72.642428	2201.35	1521.11
6	GUIDE	1197885328	7.24	9807	0.073	-0.078	0.074	0.119	16.283090	-71.733943	-1043.20	356.97
7	GUIDE	1197885104	9.36	9796	-0.169	-0.025	0.187	0.266	17.845067	-72.189368	564.54	2126.47

## 2.4 Star Slots

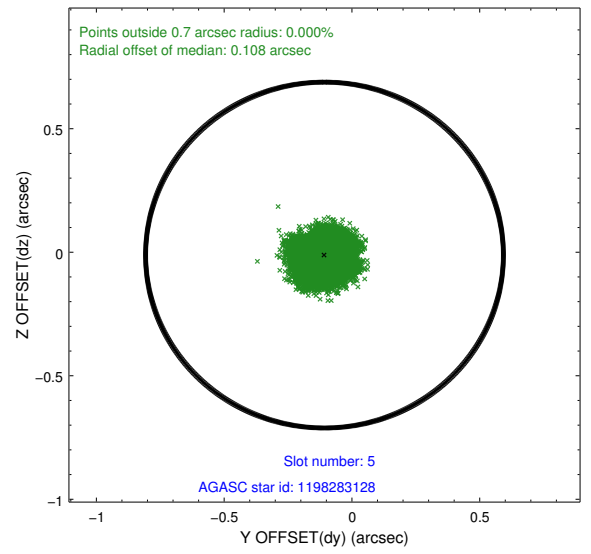
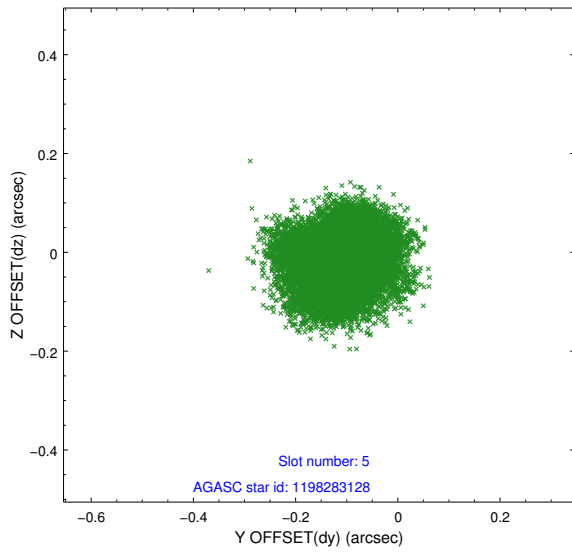
### 2.4.1 Slot 3



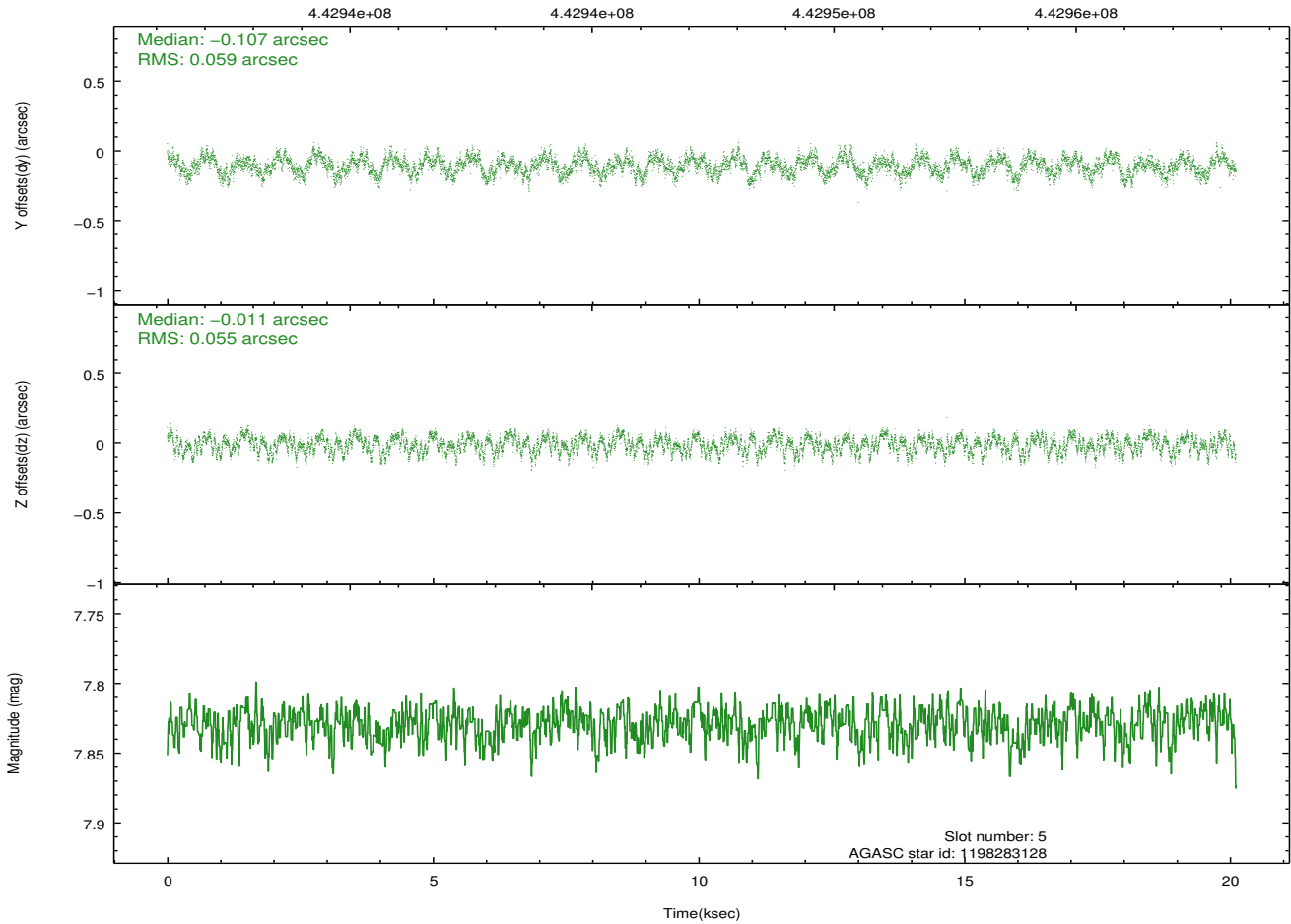
## 2.4.2 Slot 4



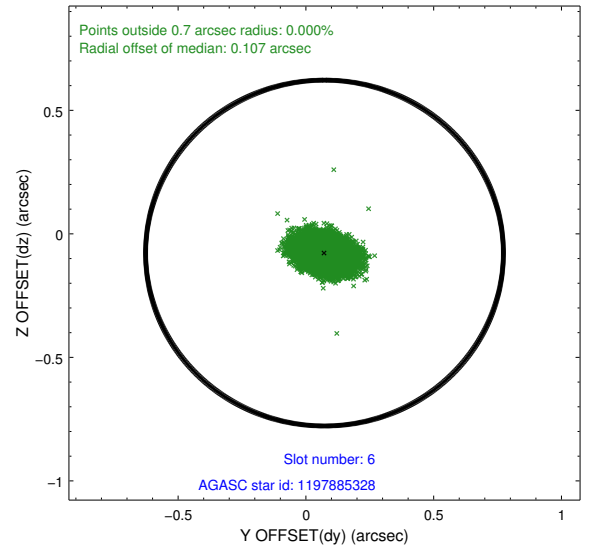
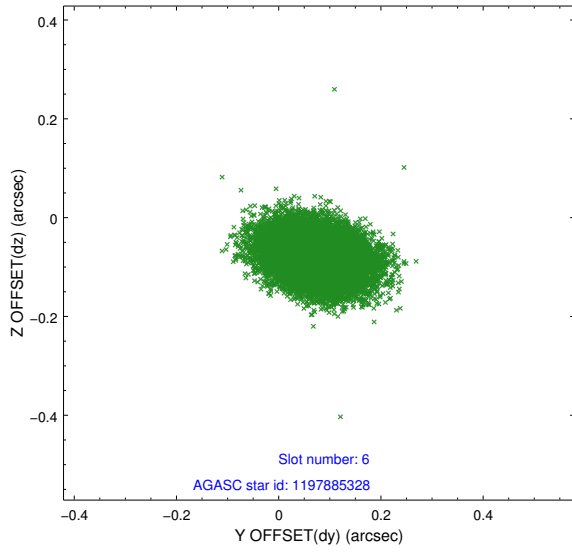
### 2.4.3 Slot 5



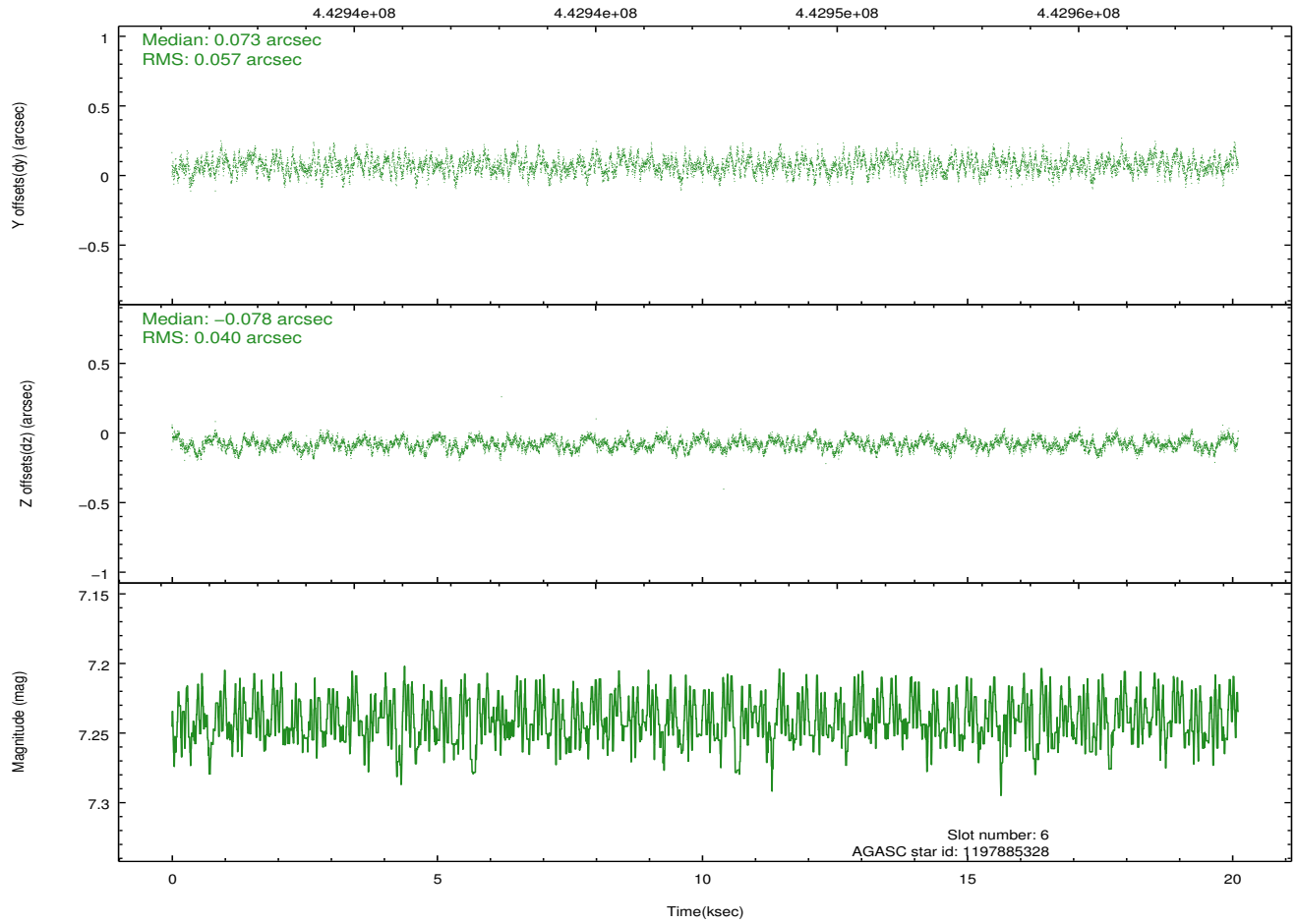
Time (s)



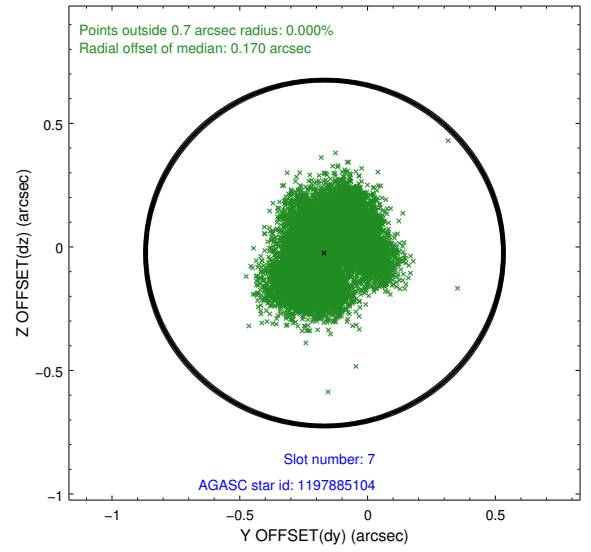
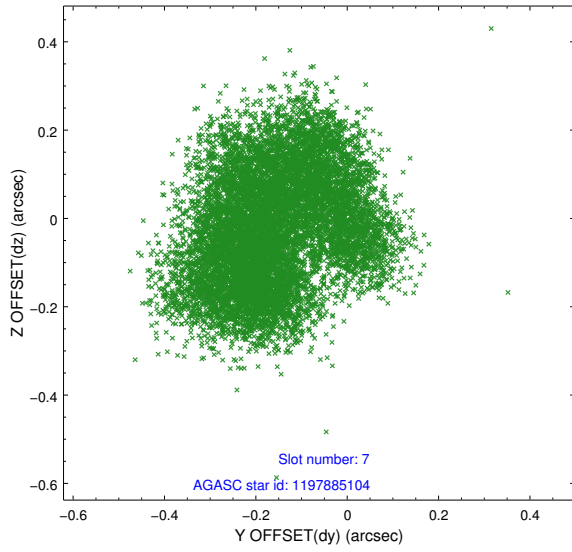
### 2.4.4 Slot 6



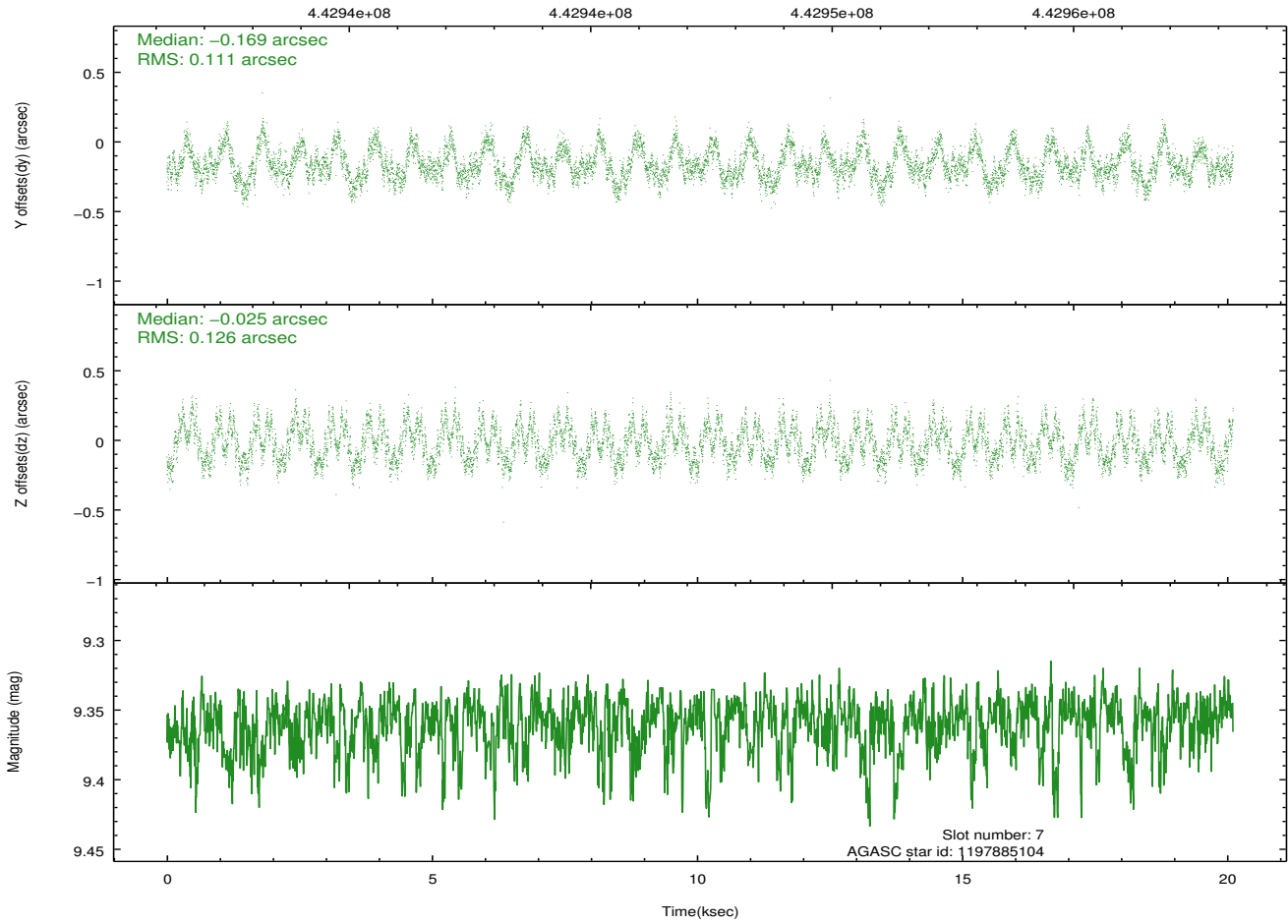
Time (s)



### 2.4.5 Slot 7

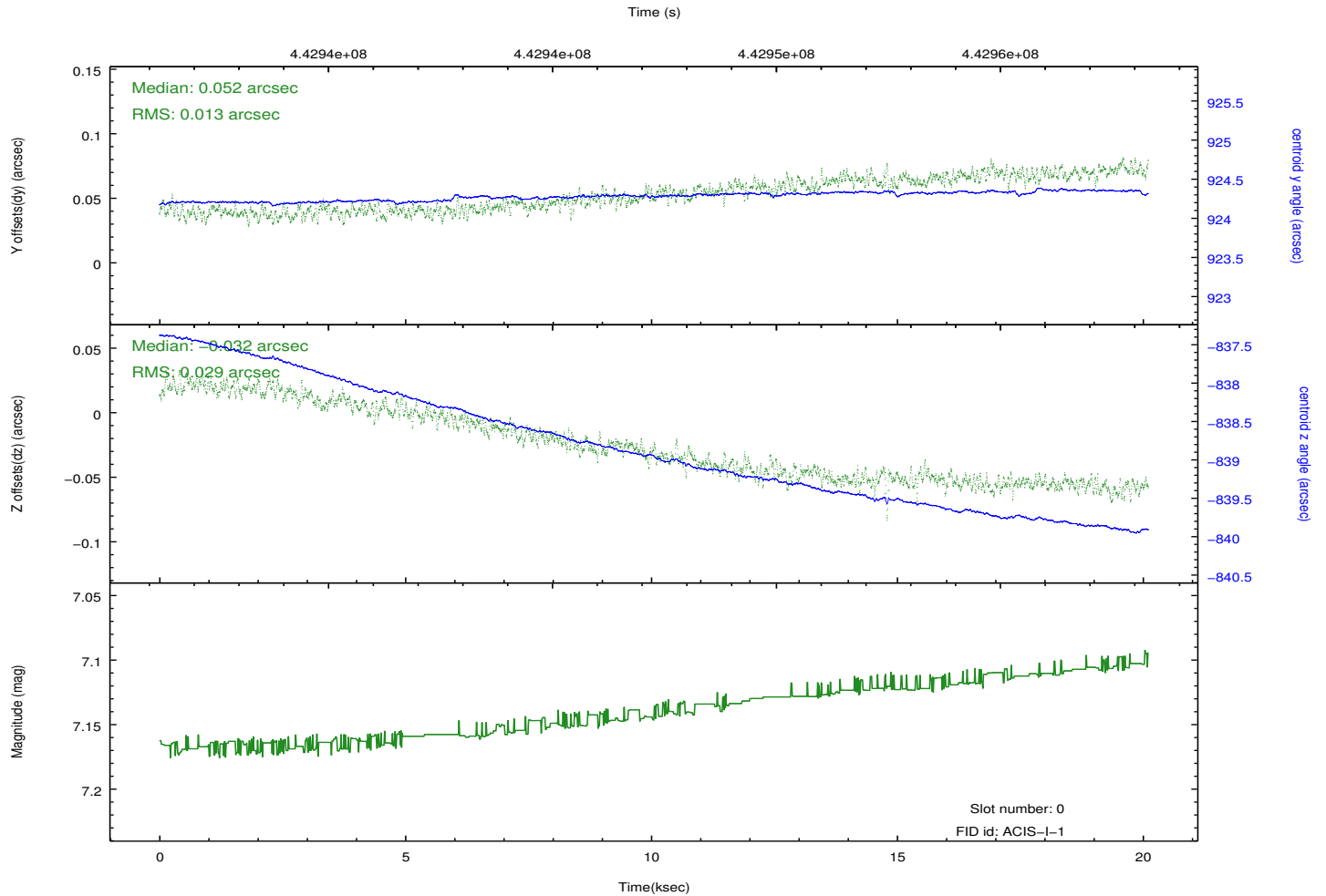
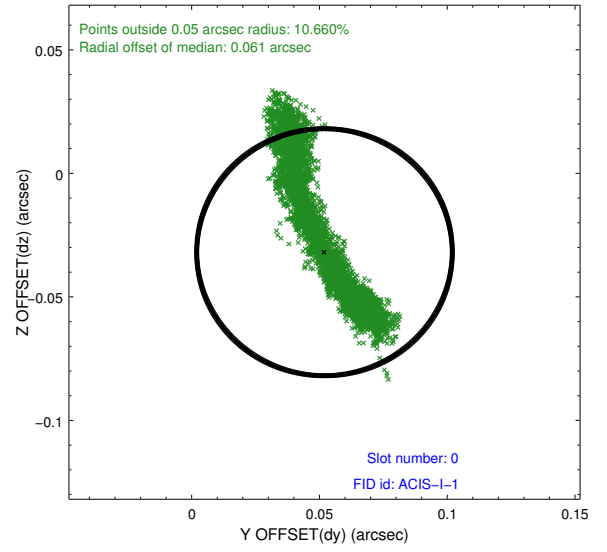
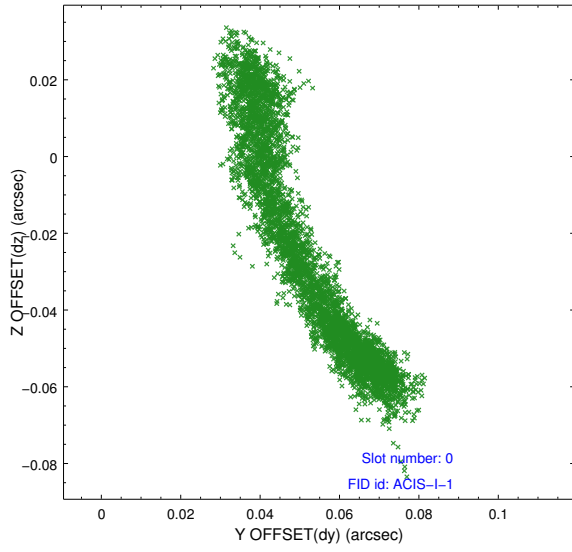


Time (s)

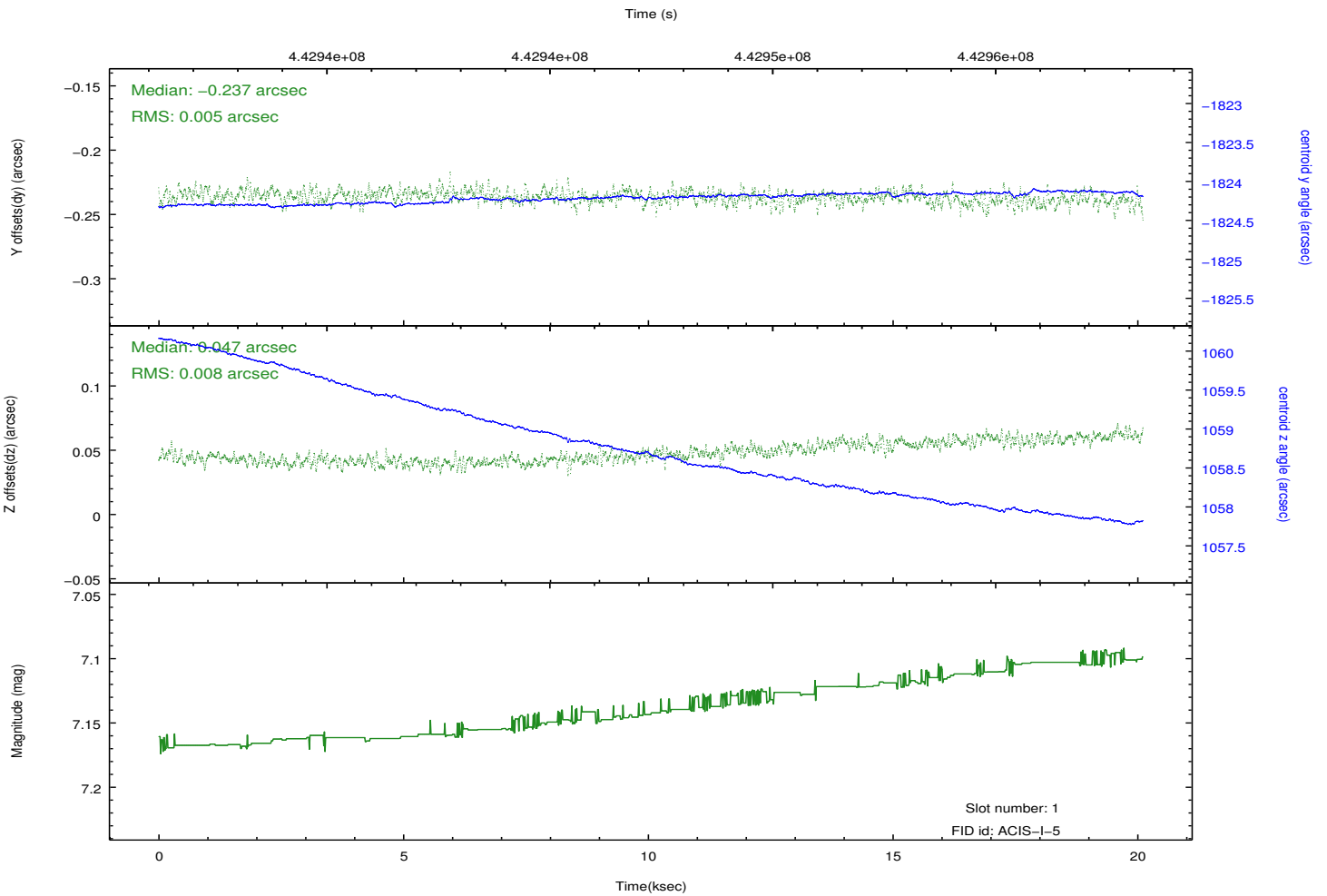
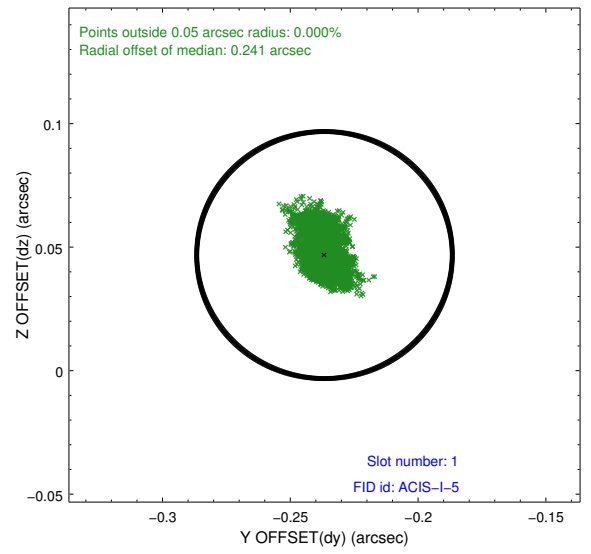
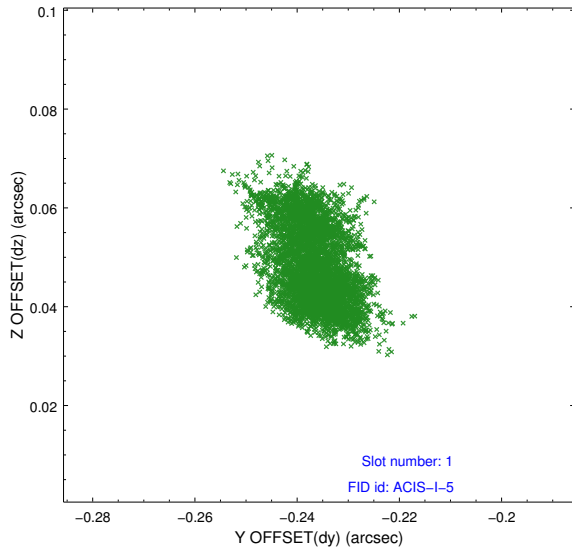


## 2.5 FID Slots

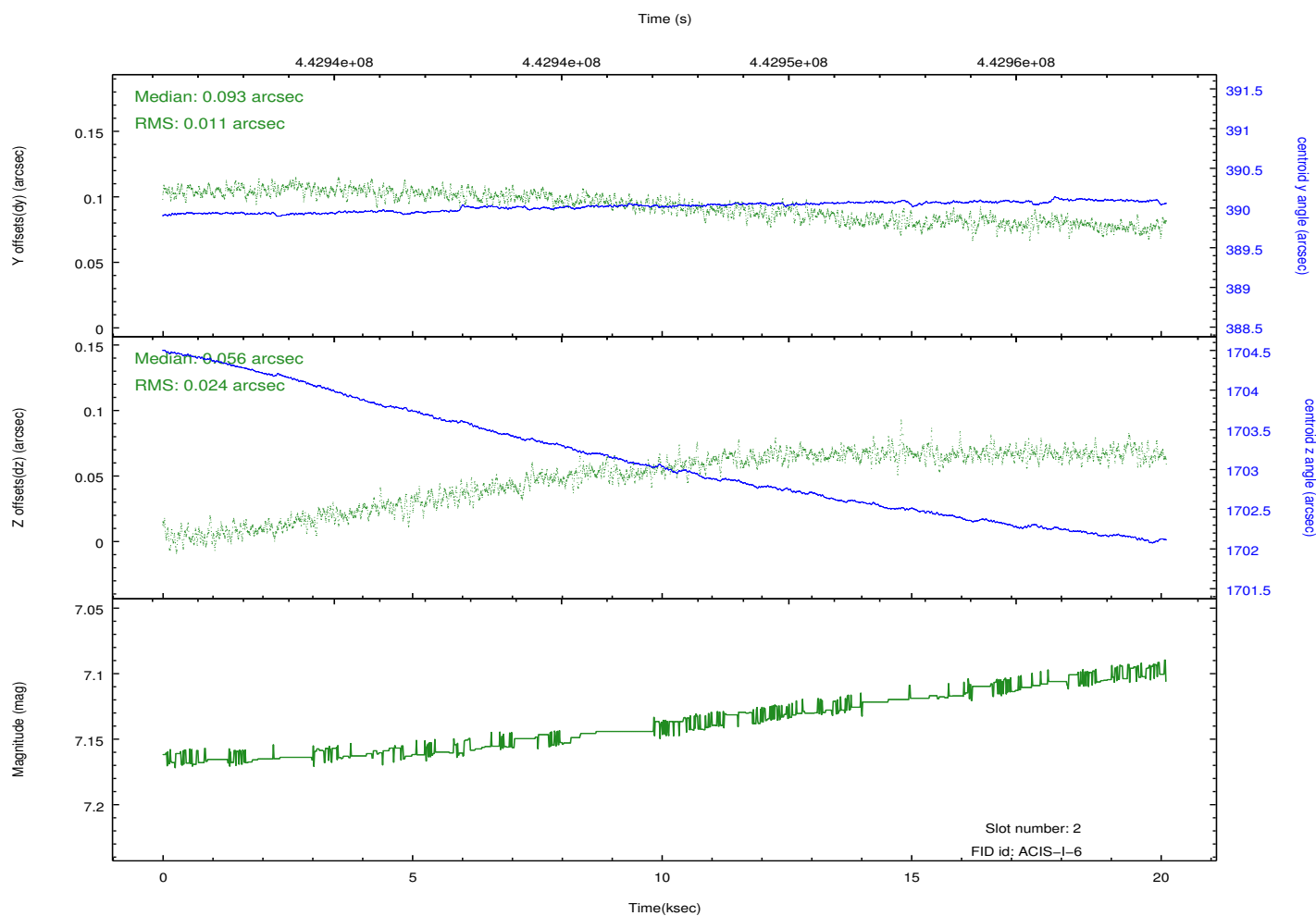
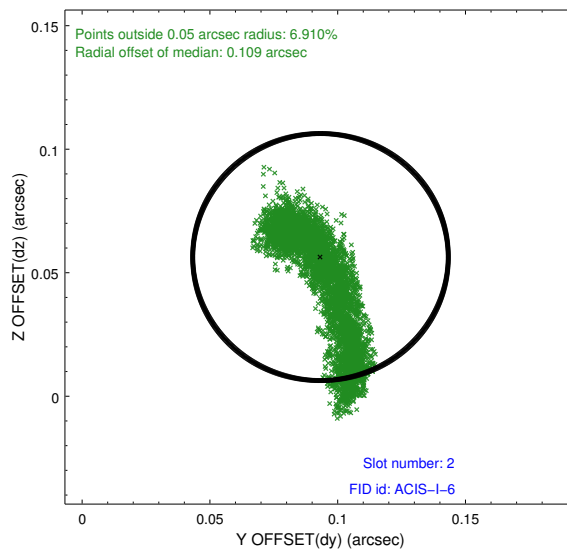
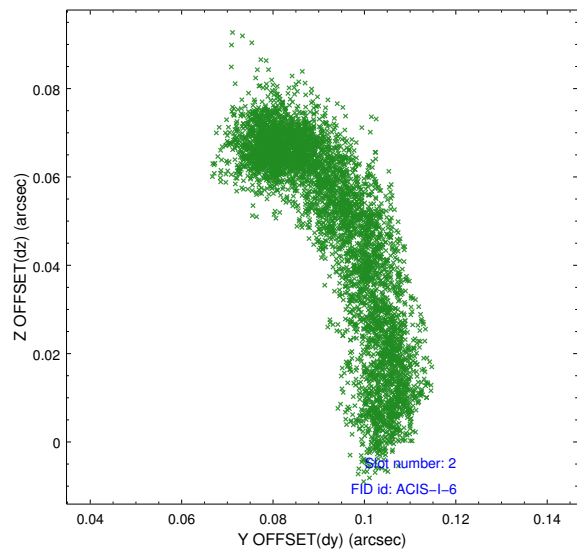
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.01.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.027637809634

## A.2 Comments

Window constraint met.