

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 8273 - L2 Version 2  
Chandra X-Ray Center

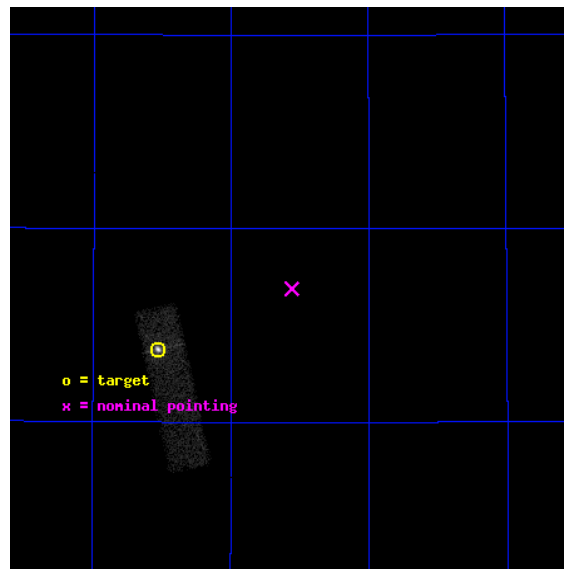
L2 Processing Date : Apr 12 2012

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# 1 Front

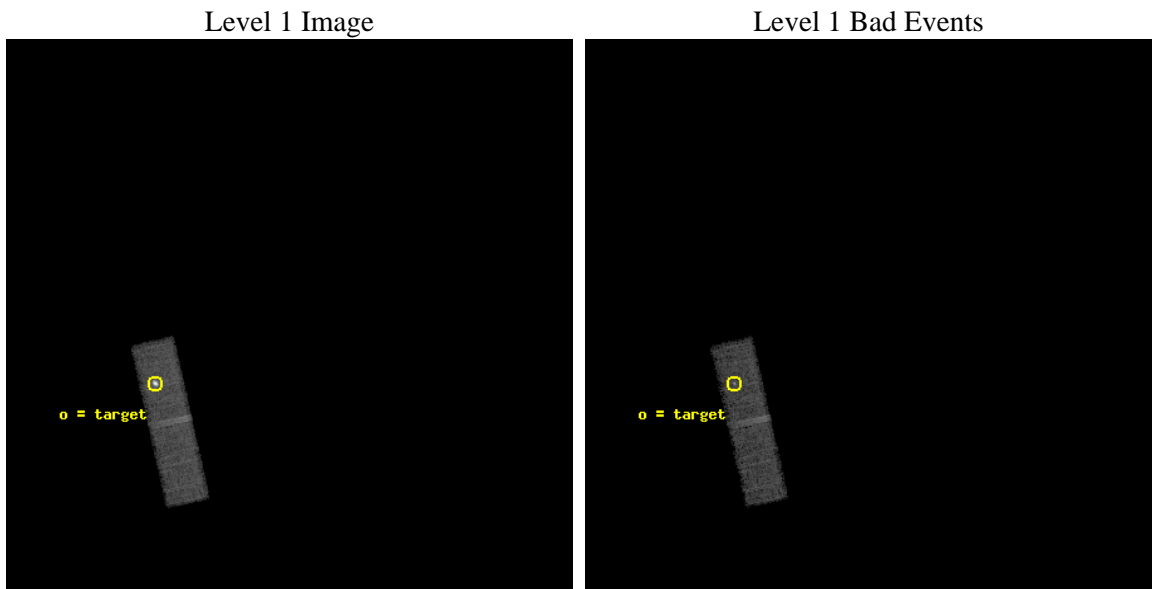
seq_num	400680	Sequence number
obs_id	8273	Observation id
title	Probing the true nature of the microquasar candidate LS I +61 303	&#160
observer	Dr. Miguel Perez-Torres	Principal investigator
object	LS I +61 303	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	40.132083	Observer's specified target RA [deg]
dec_targ	61.229333	Observer's specified target Dec [deg]
ra_nom	39.889587093362	Nominal RA [deg]
dec_nom	61.281587117523	Nominal Dec [deg]
roll_nom	167.51883215498	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20030.359268427	Sum of GTIs [s]
livetime	19052.943278253	Livetime [s]
ontime3	20030.359268427	Sum of GTIs [s]
l2events	28776	Number of level 2 events



## 2 OBI

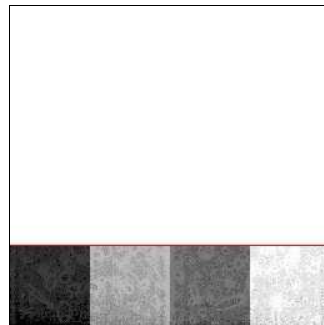
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 3



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	20030.359268427	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime3	20030.359268427	Sum of GTIs [s]
date	2012-04-12T08:21:01	Date and time of file creation	l1events	82259	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

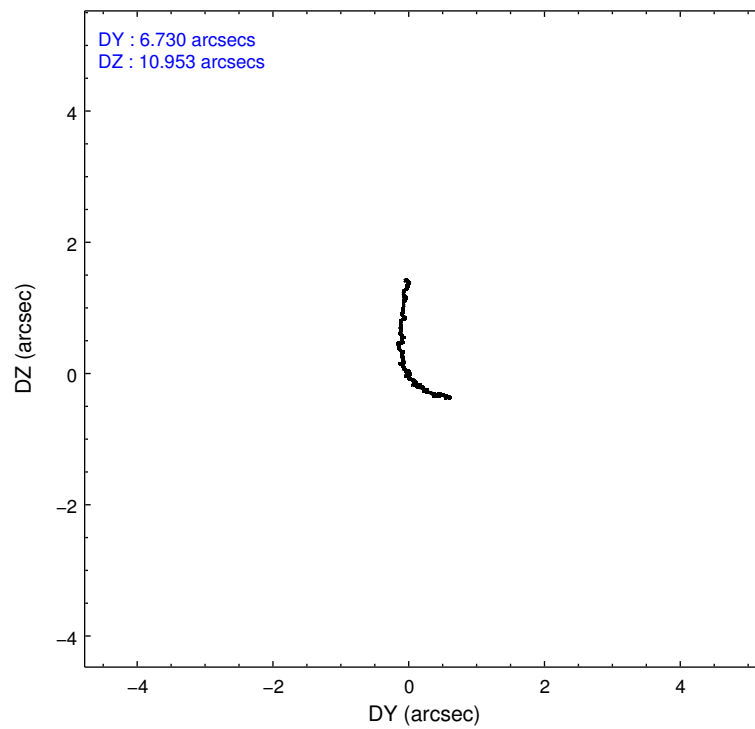
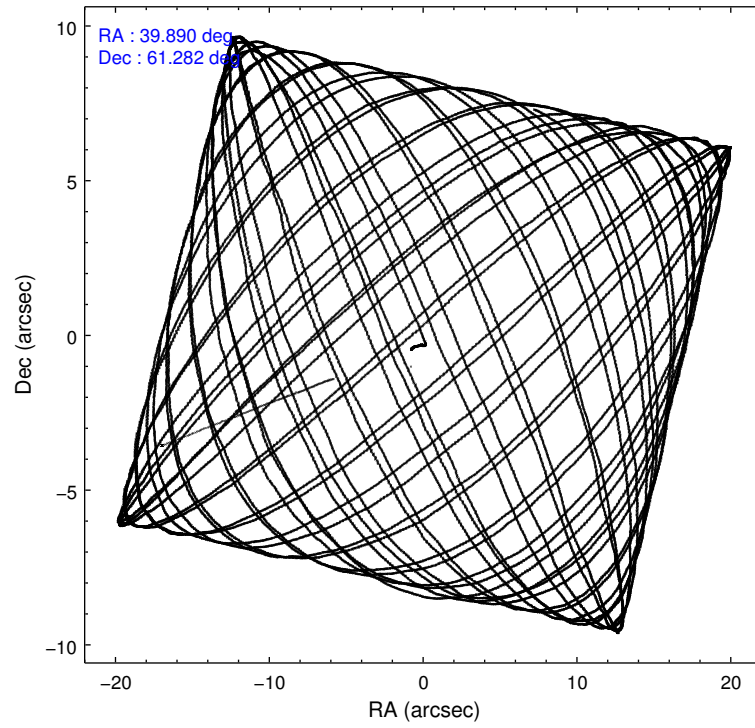
	<b>ccd 3</b>
level 1 events	82259
rejected events	51595
rejected %	62%

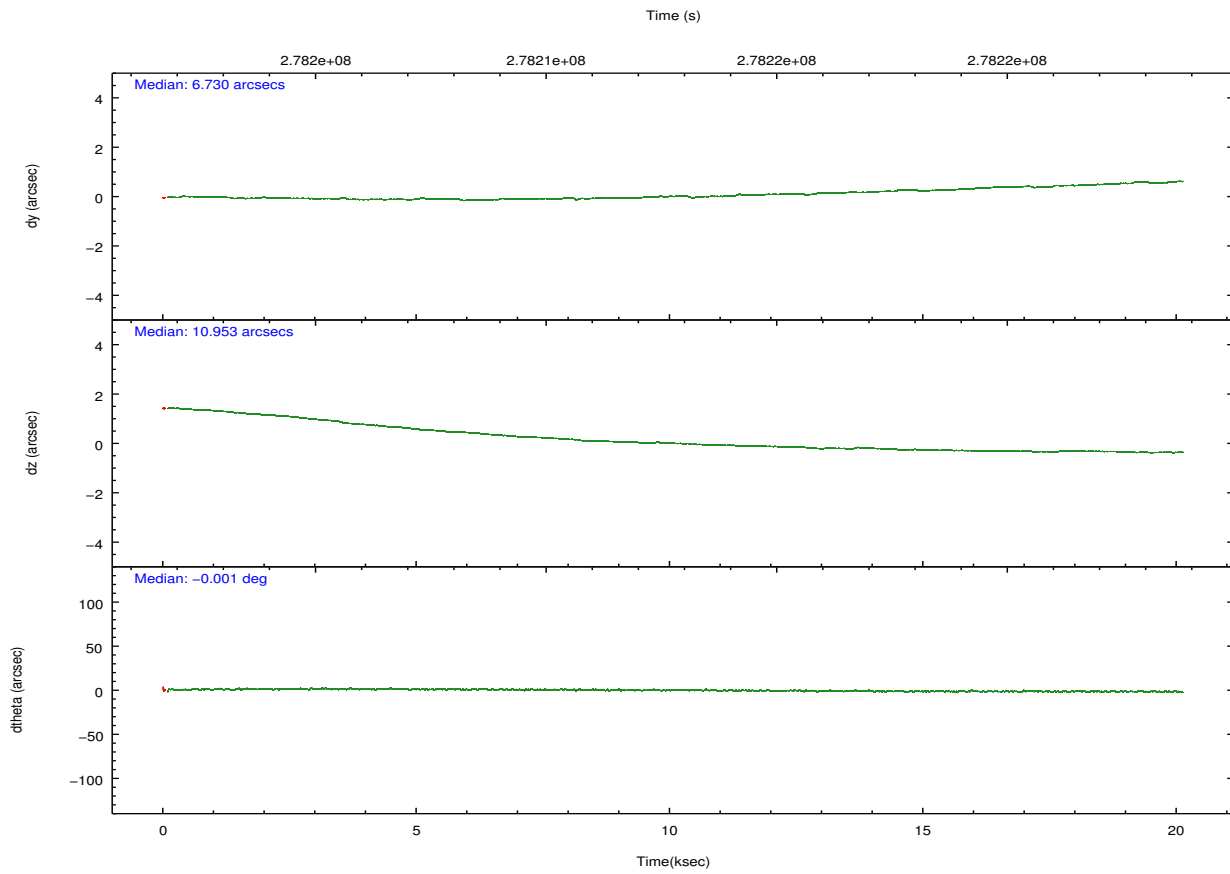
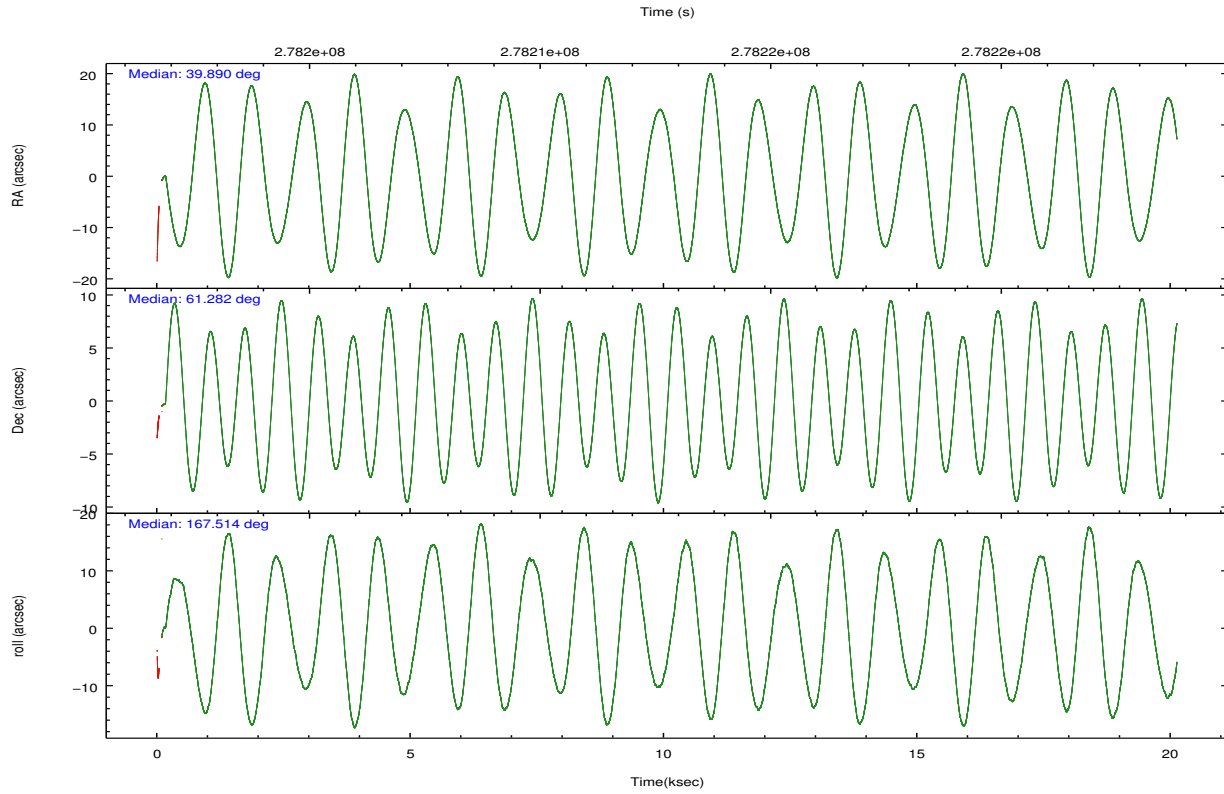
	<b>ccd 3</b>
grade 0 events	20945
	25%
grade 1 events	226
	0%
grade 2 events	4250
	5%
grade 3 events	2009
	2%
grade 4 events	1959
	2%
grade 5 events	2122
	2%
grade 6 events	2248
	2%
grade 7 events	48500
	58%

## 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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	39.943915	39.88958709336227	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	61.289925	61.28158711752273	Subarray start row	1	1
[deg] Pointing Roll	167.262506	167.5188321549791	Subarray row count	256	256
[s] Window start time (MET)	278202665.184000	278202665.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	278224265.184000	278224265.184000	[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)	278202822.184000	278201668.98118			
Observation start date	2006-10-25T22:32:37	2006-10-25T22:14:28			
[s] Observation end time (MET)	278222822.184000	278223948.38223			
Observation end date	2006-10-26T04:05:57	2006-10-26T04:25:48			
Read mode	TIMED	TIMED			

## 2.3 Aspect





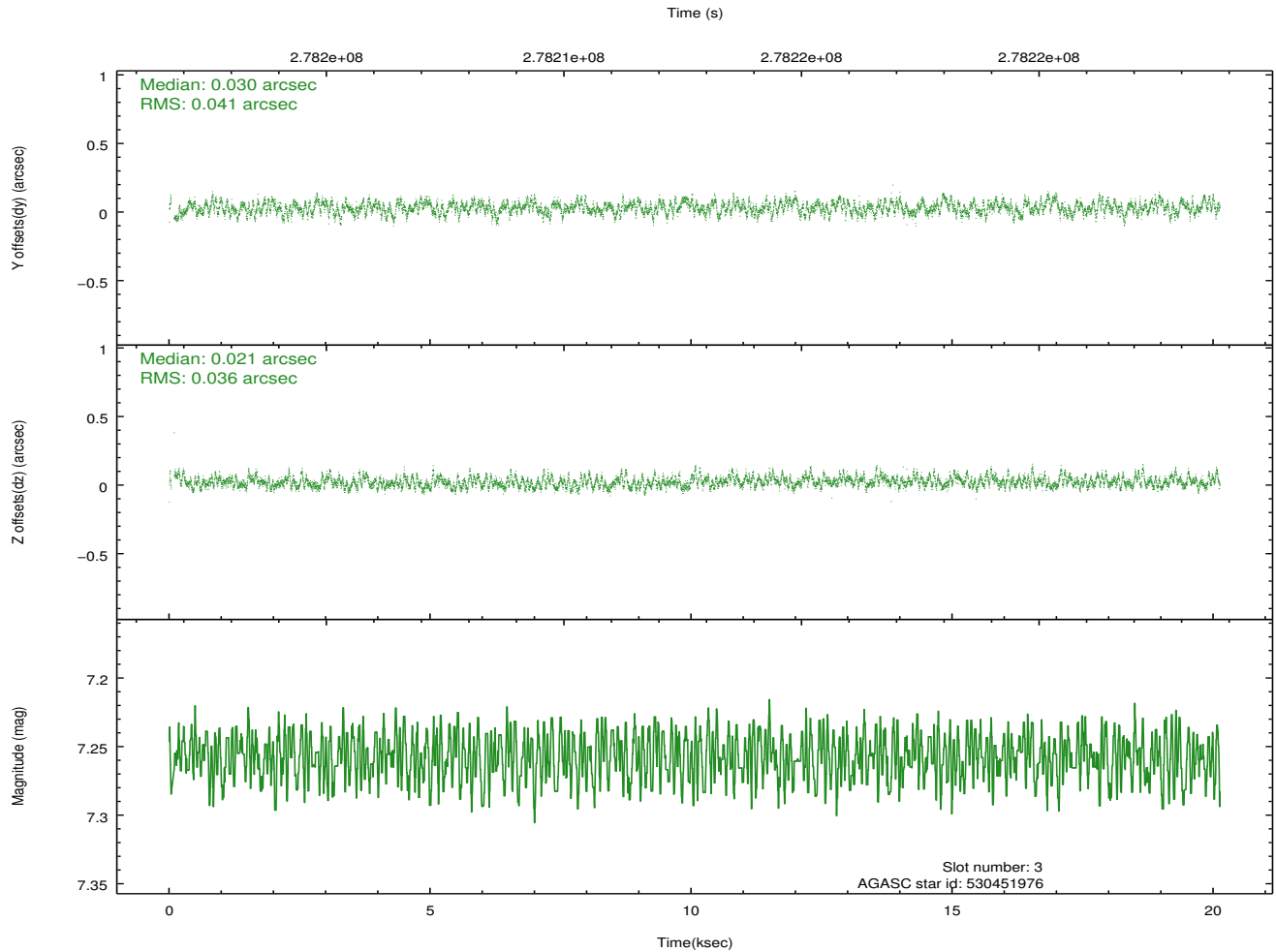
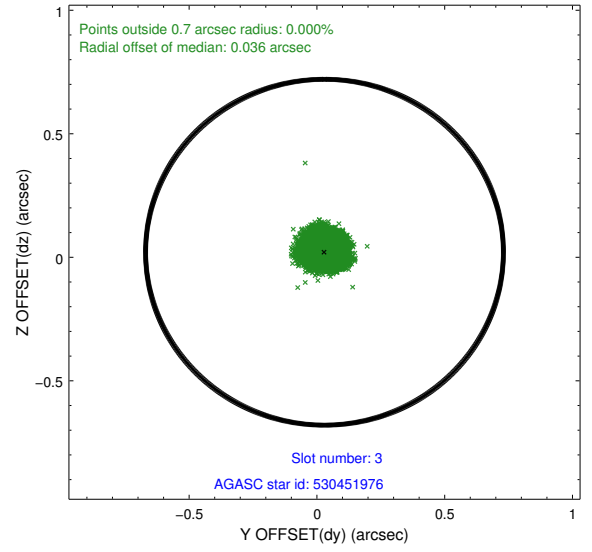
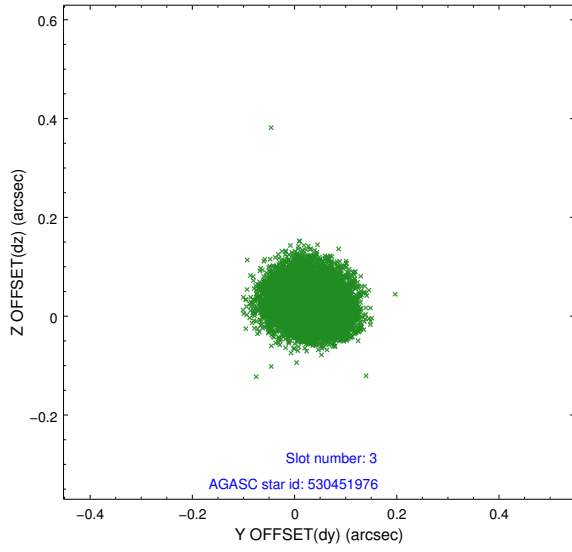
### Slot Statistics

	status	id	mag	n_pts	med_dy	med_dz	dr1
	FID	ACIS-I-1	7.25	4895	0.040	-0.042	0.020
	FID	ACIS-I-5	7.23	4895	-0.163	0.053	0.016
	FID	ACIS-I-6	7.25	4895	0.025	0.062	0.013
	GUIDE	530451976	7.26	9792	0.030	0.021	0.059
	GUIDE	530457960	8.01	9791	0.113	0.095	0.054
	GUIDE	530460136	8.90	9787	0.035	-0.042	0.081
	GUIDE	530462328	8.45	9791	-0.177	-0.074	0.067
0.000	0.000	0.000	0.000000	0.000000	0.00	0.00	

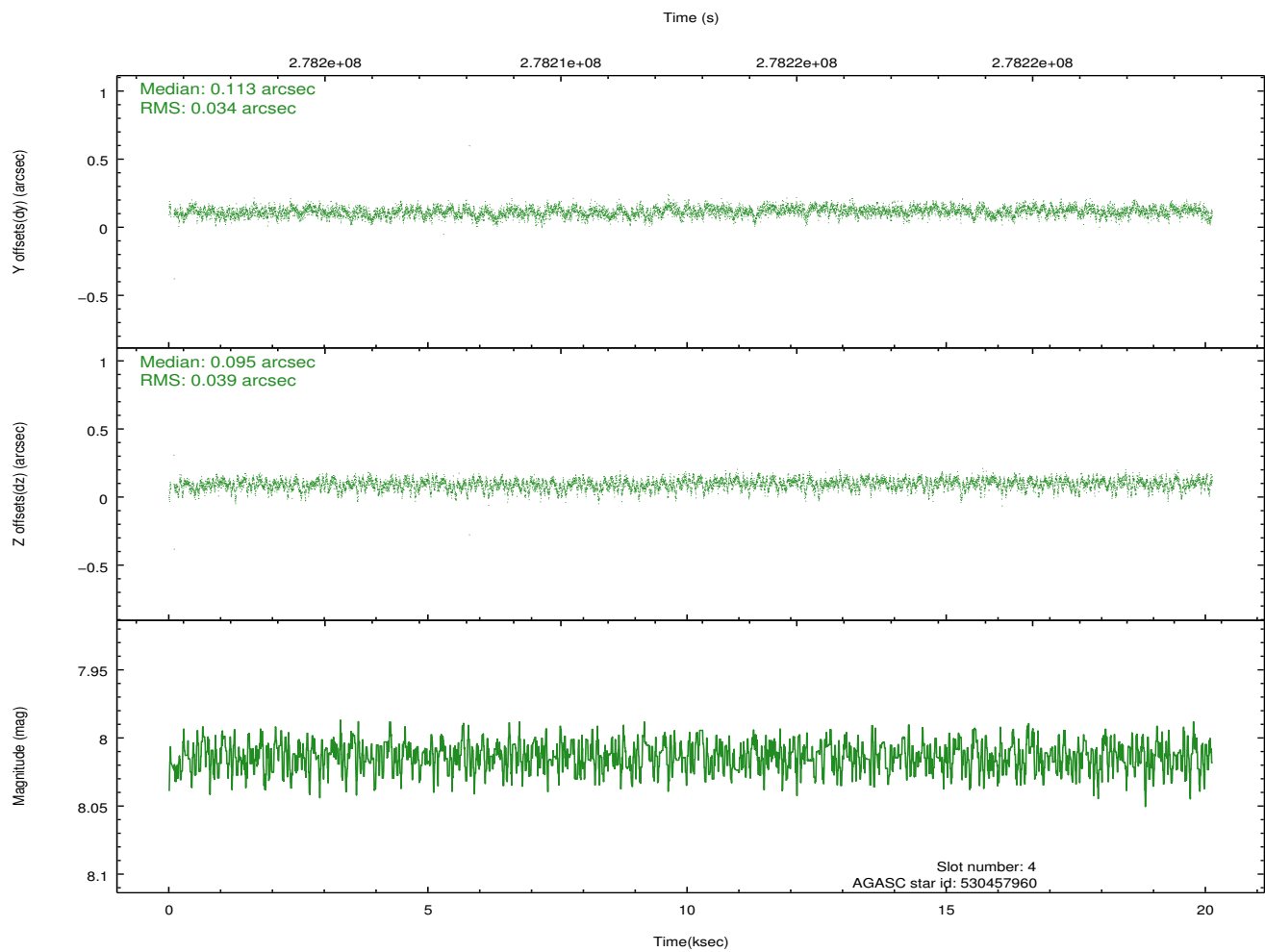
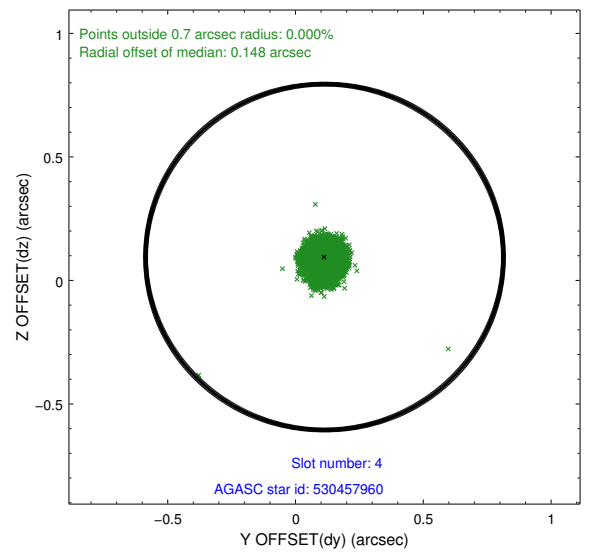
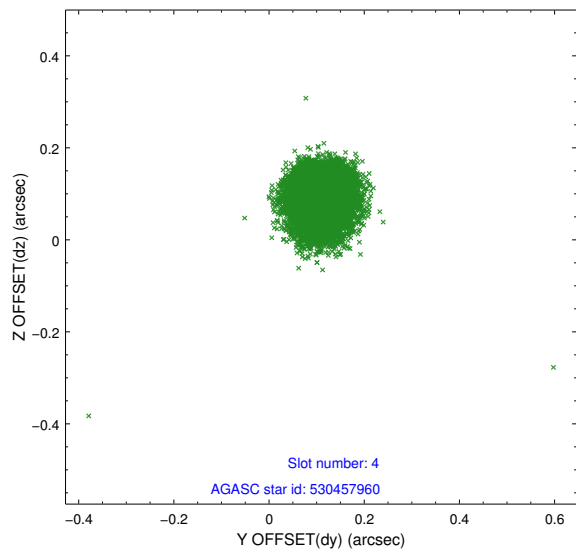
∞

## 2.4 Star Slots

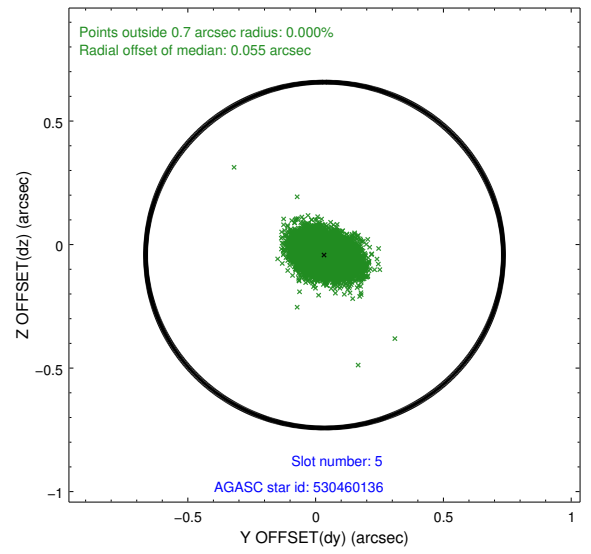
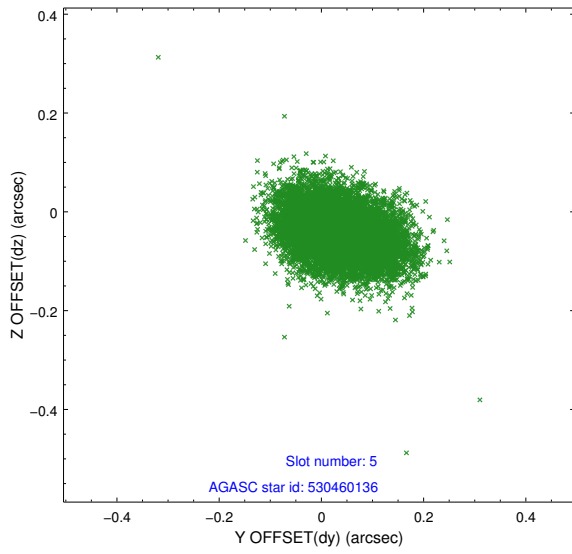
### 2.4.1 Slot 3



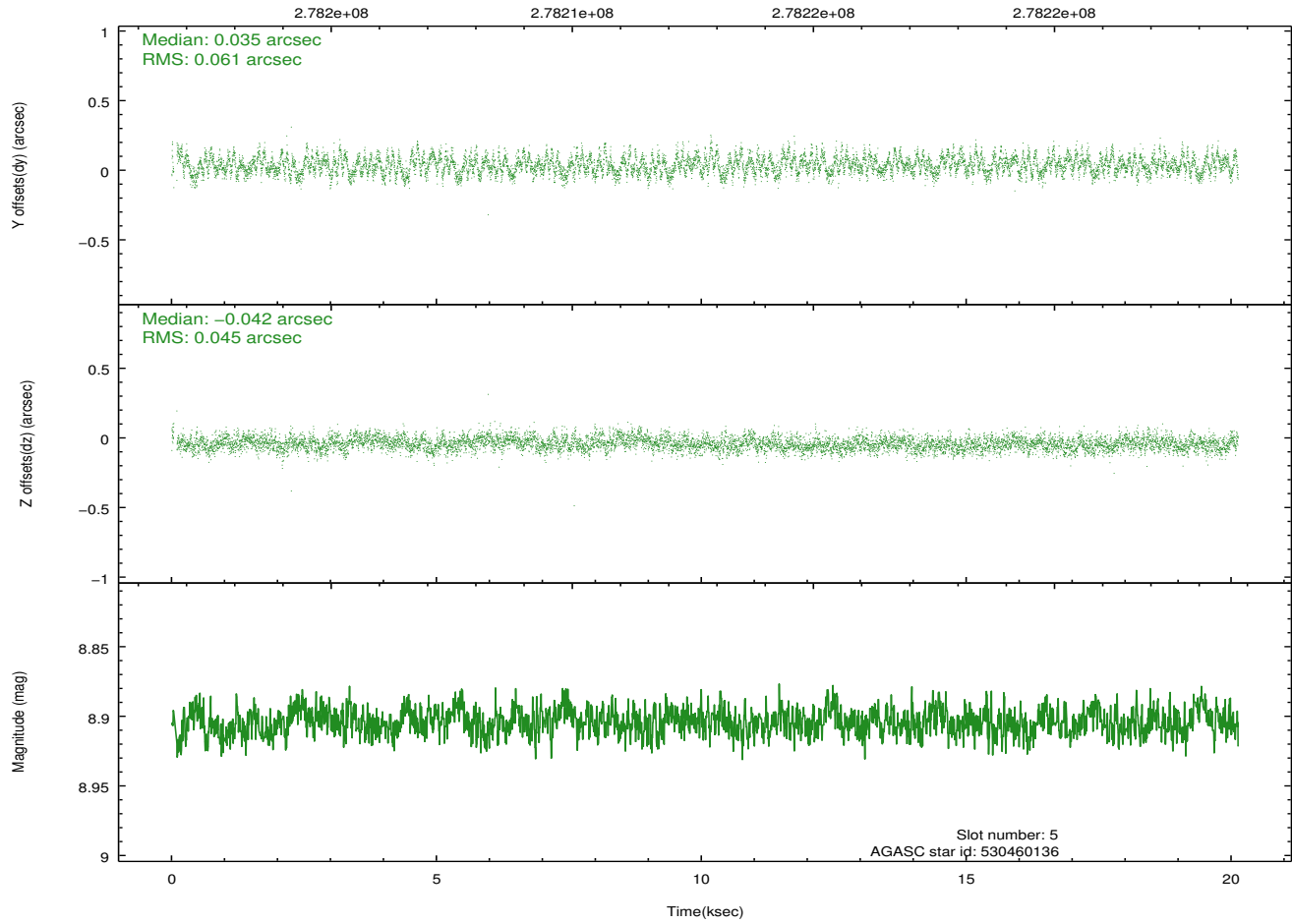
## 2.4.2 Slot 4



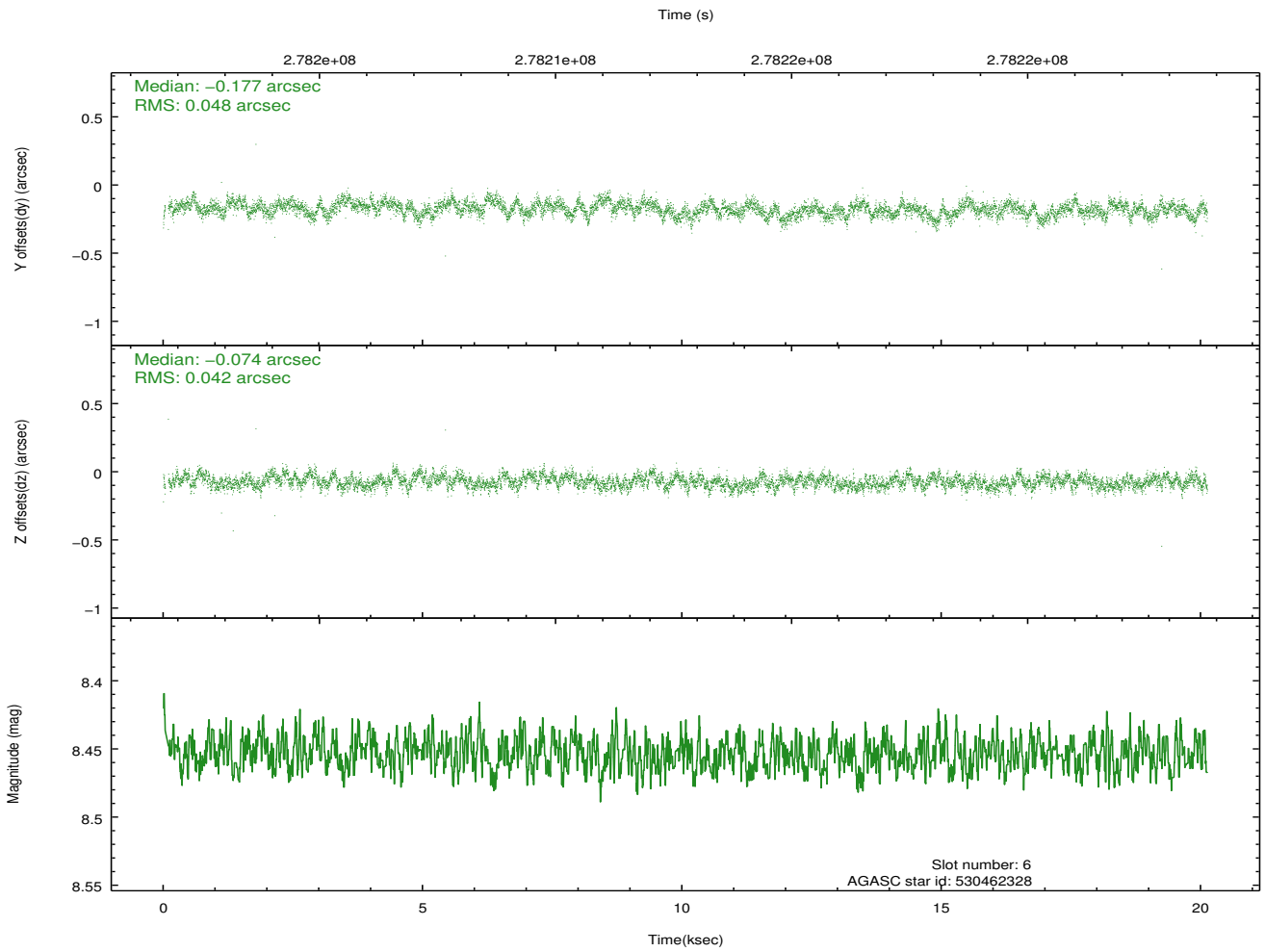
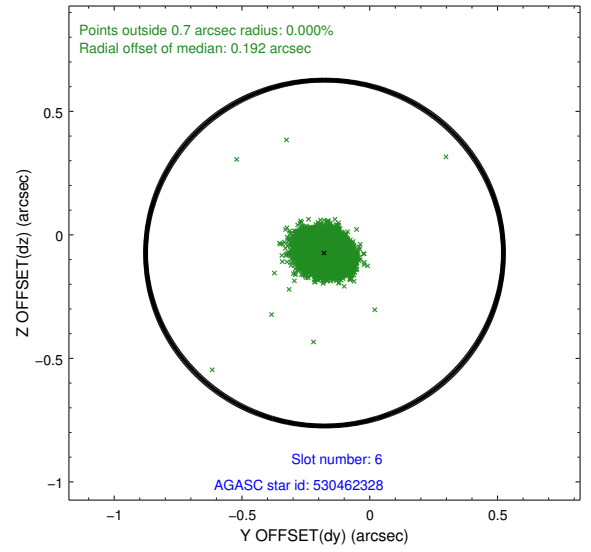
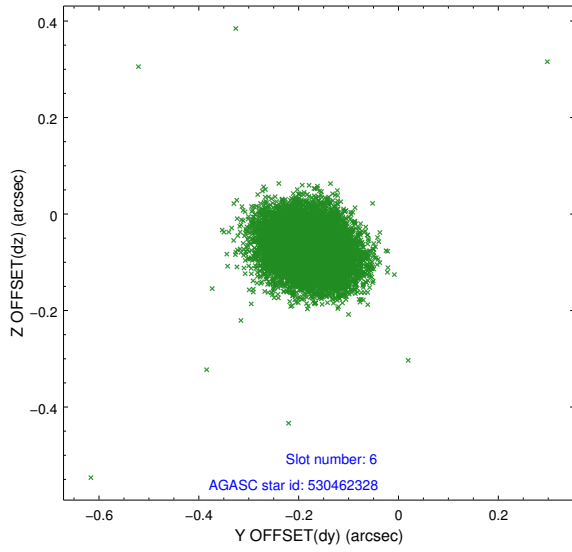
### 2.4.3 Slot 5



Time (s)

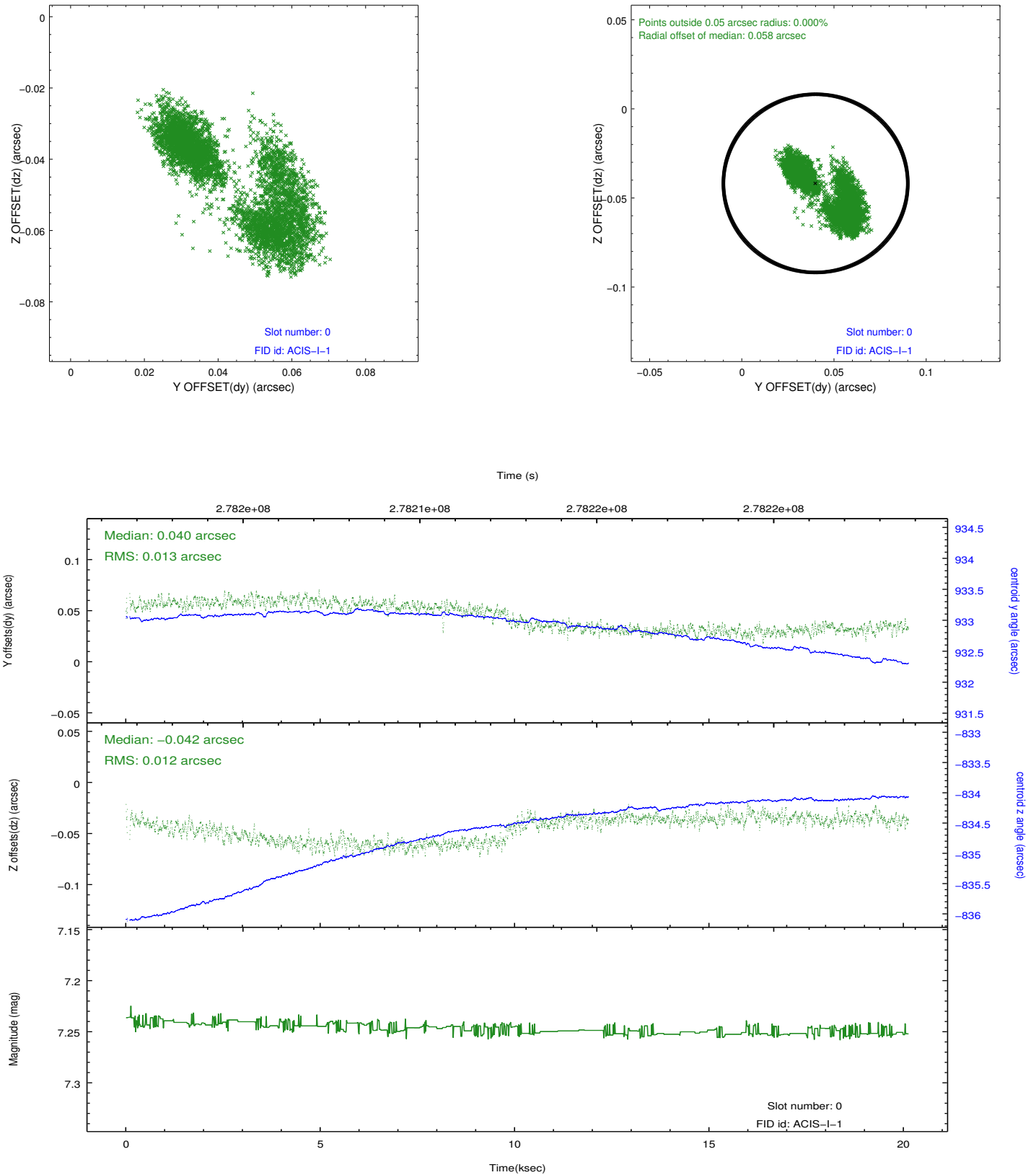


## 2.4.4 Slot 6

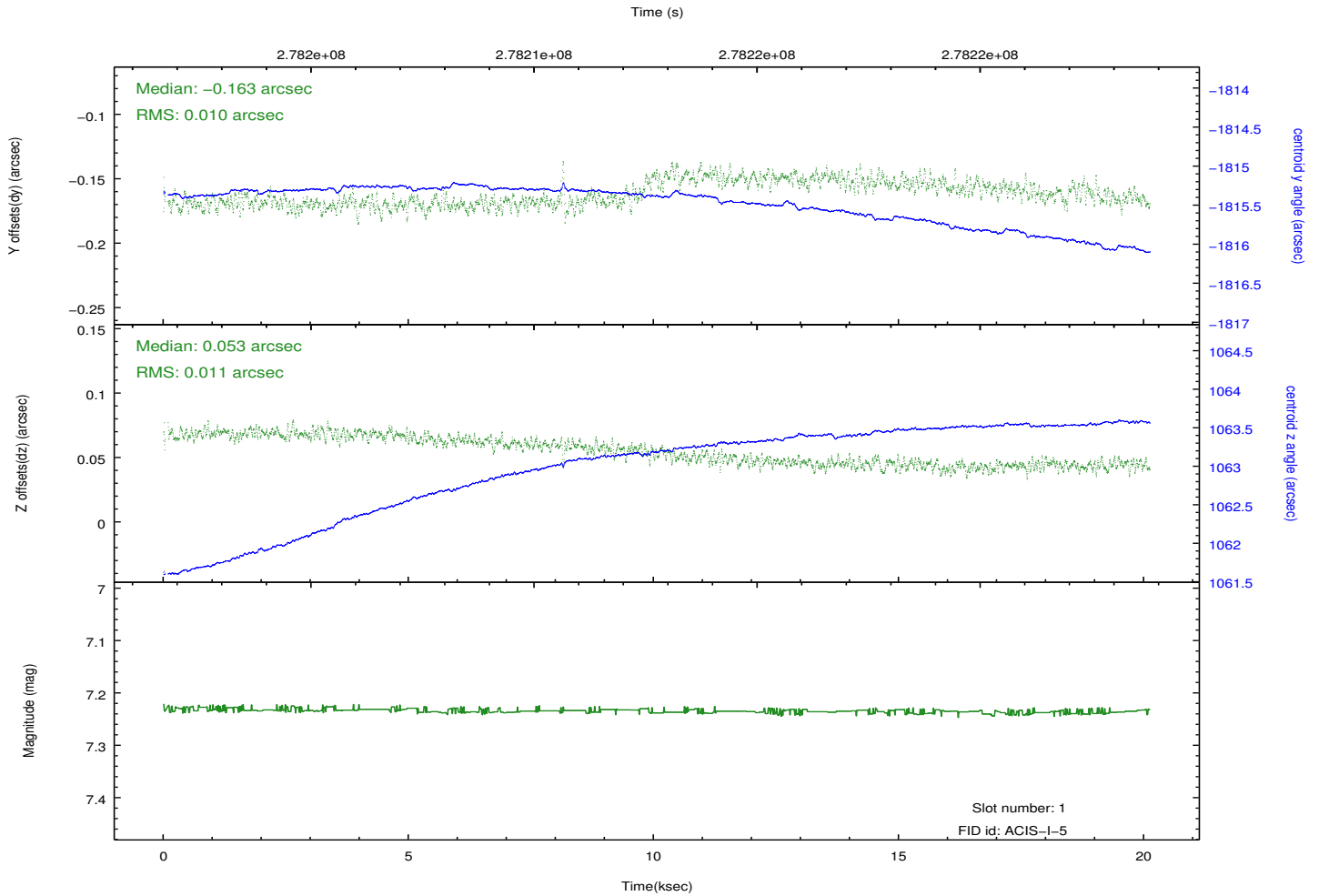
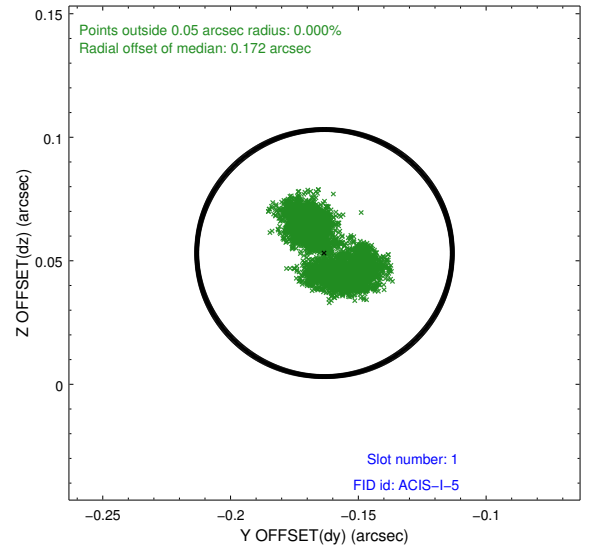
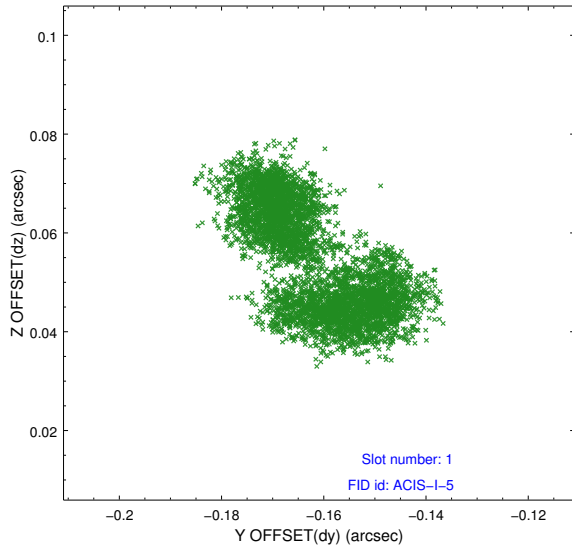


## 2.5 FID Slots

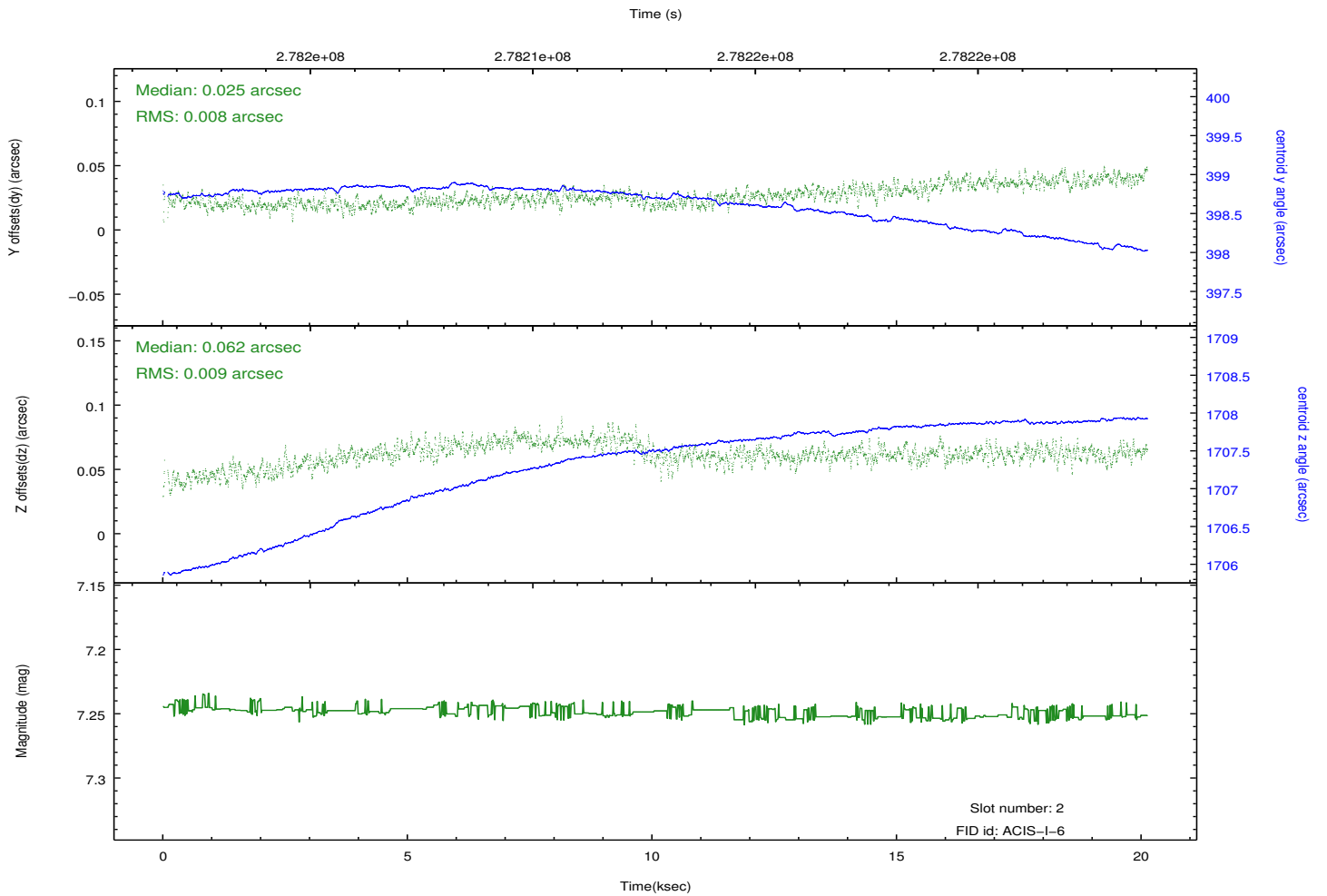
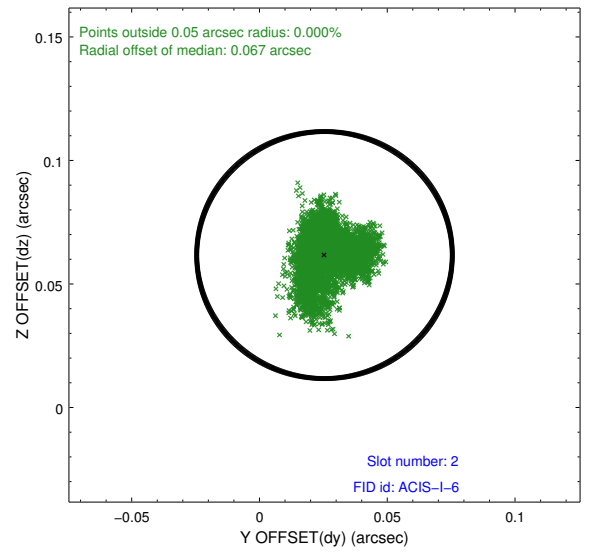
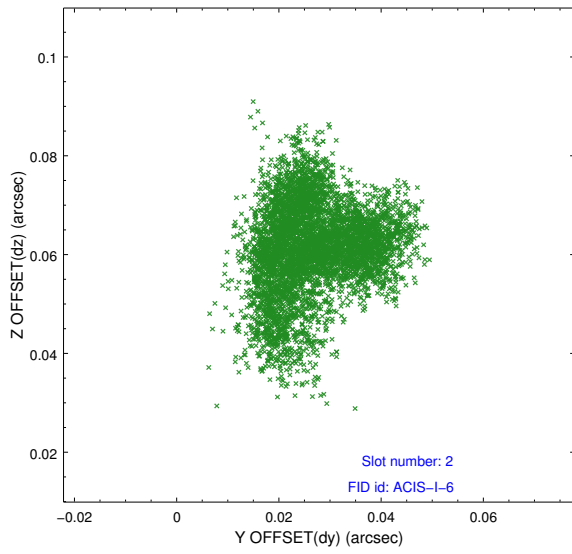
### 2.5.1 Slot 0



## 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)	2012.04.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.0303592

## A.2 Comments

Window constraint met. large offset between target and aimpoint; the target is extended and asymmetric because of this offset.