

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3878 - L2 Version 6  
Chandra X-Ray Center

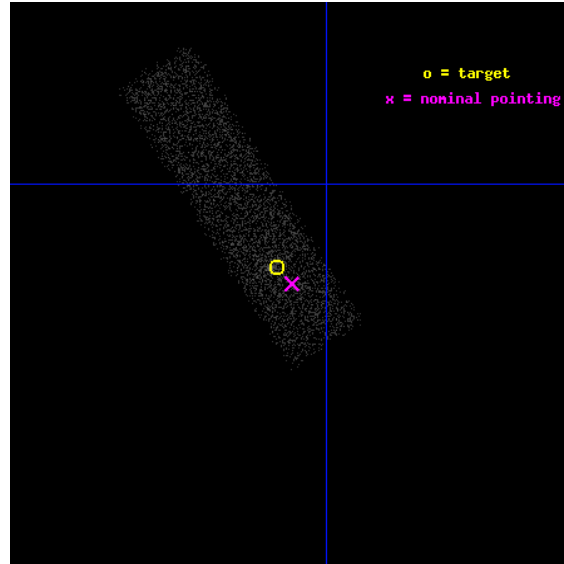
L2 Processing Date : Feb 8 2013

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# 1 Front

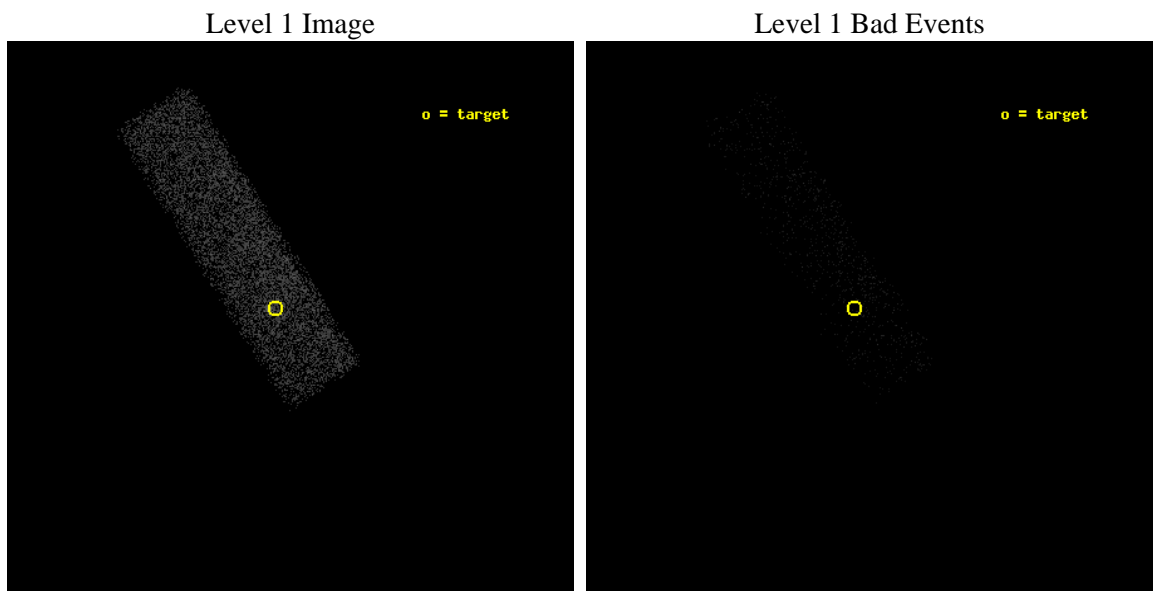
seq_num	500357	Sequence number
obs_id	3878	Observation id
title	COMPLETING THE CENSUS OF COMPACT OBJECTS IN SUPERNOVA REMNANTS	Pro
observer	Prof. David Kaplan	Principal investigator
object	RX J045707.4+452751	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	74.280833	Observer's specified target RA [deg]
dec_targ	45.464167	Observer's specified target Dec [deg]
ra_nom	74.271532043606	Nominal RA [deg]
dec_nom	45.457026068873	Nominal Dec [deg]
roll_nom	237.82653857221	Nominal Roll [deg]
revision	6	Processing version of data
ontime	5186.4000772834	Sum of GTIs [s]
livetime	4933.3207241353	Livetime [s]
ontime7	5186.4000772834	Sum of GTIs [s]
l2events	8244	Number of level 2 events



## 2 OBI

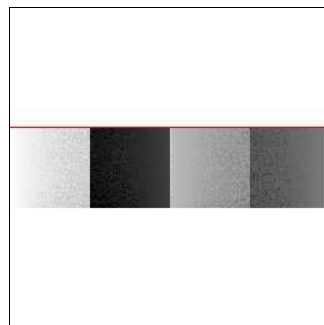
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	5186.4000772834	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime7	5186.4000772834	Sum of GTIs [s]
date	2013-02-08T21:41:13	Date and time of file creation	l1events	16642	Number of level 1 events
revision	6	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	16642
rejected events	8224
rejected %	49%

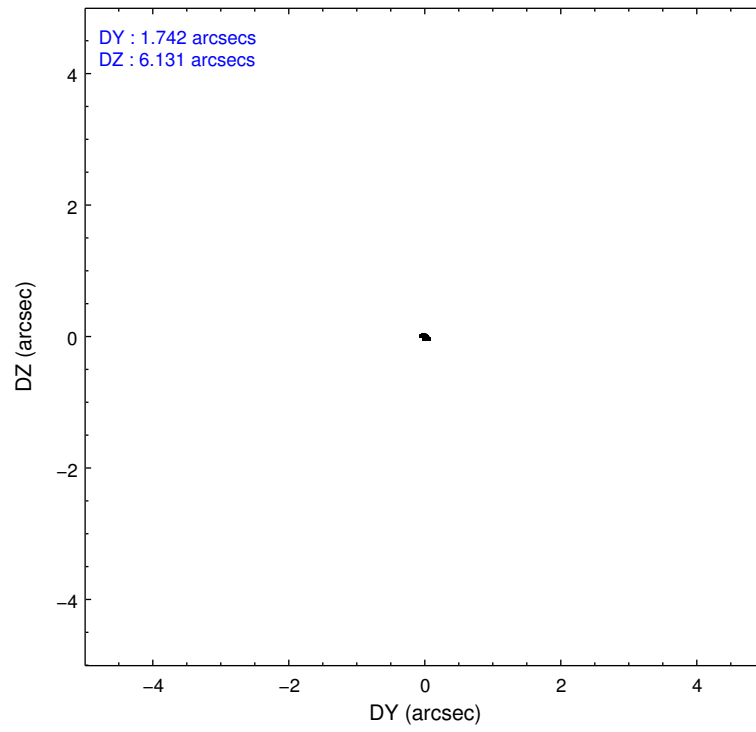
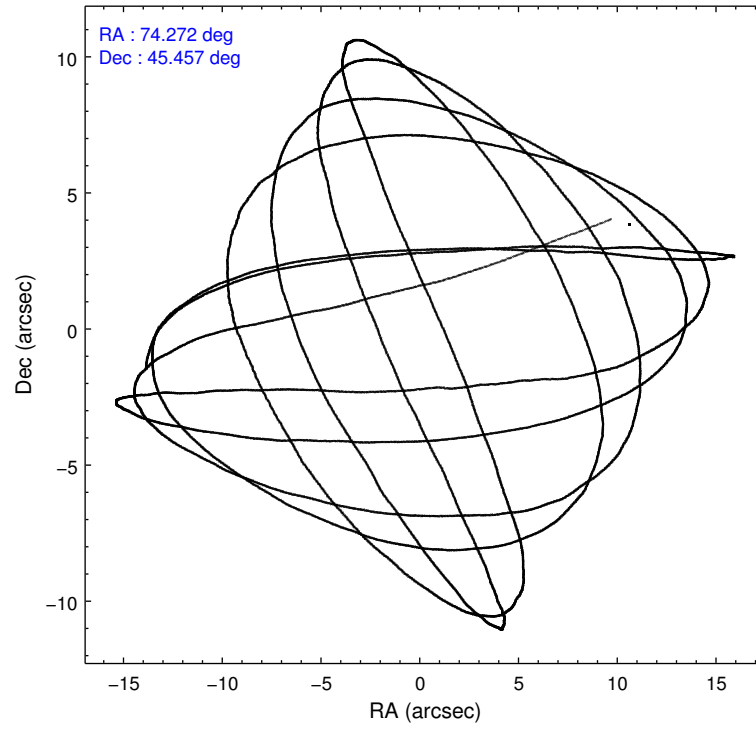
	<b>ccd 7</b>
grade 0 events	1247
	7%
grade 1 events	33
	0%
grade 2 events	2025
	12%
grade 3 events	1051
	6%
grade 4 events	987
	5%
grade 5 events	1346
	8%
grade 6 events	4064
	24%
grade 7 events	5889
	35%

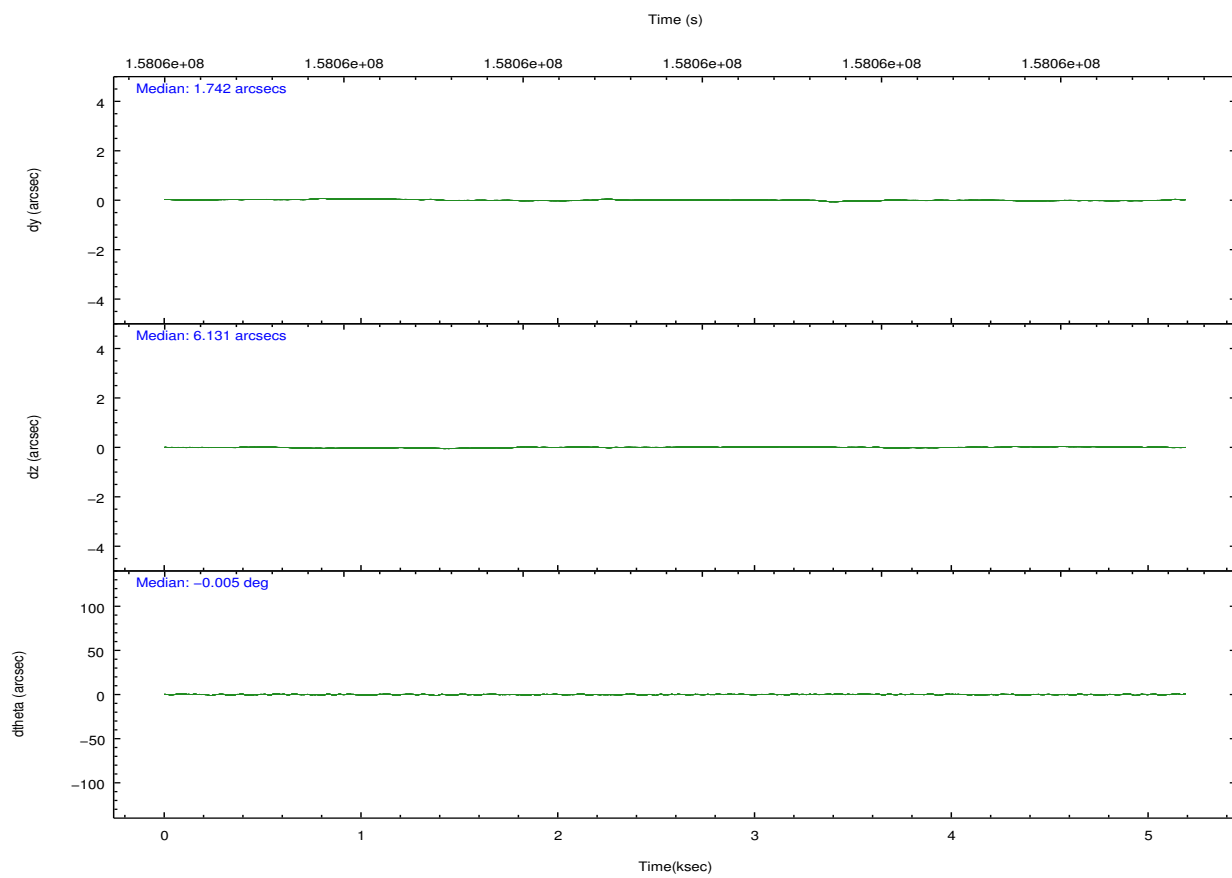
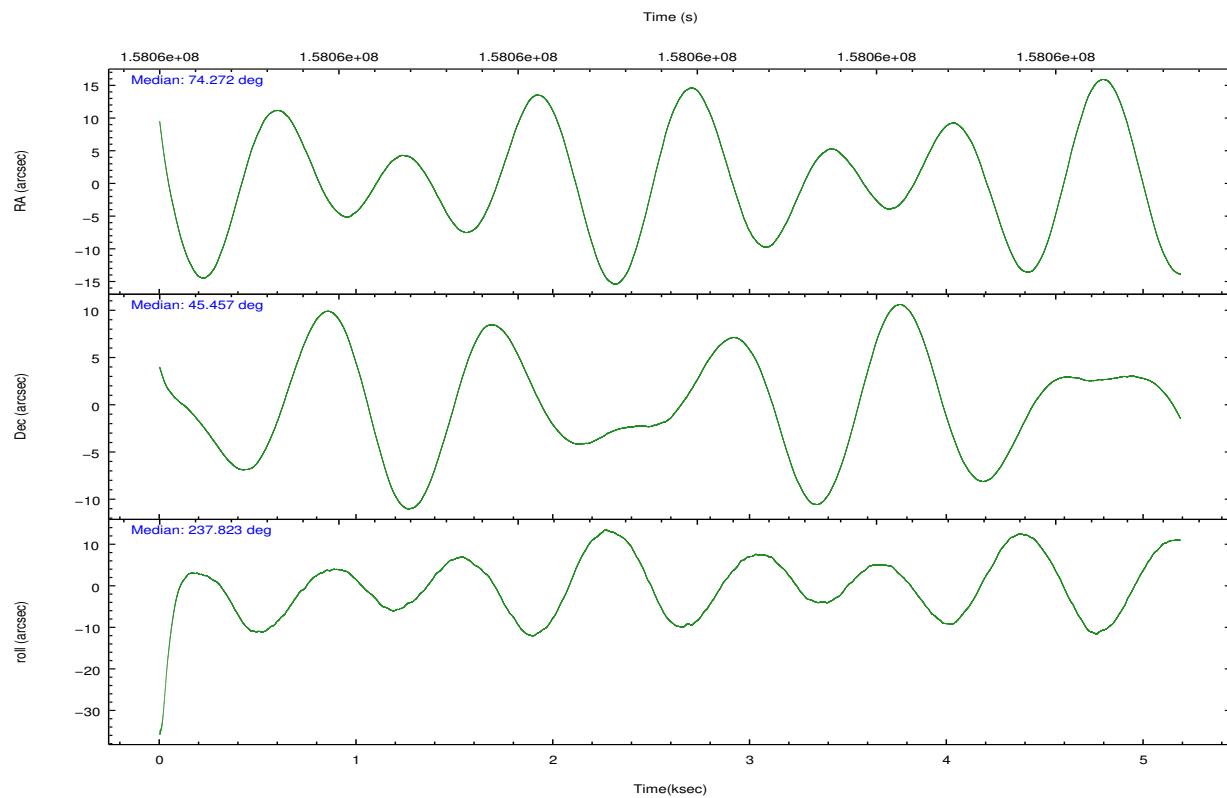


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	74.272505	74.27153204360634	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	45.484227	45.45702606887338	Subarray start row	384	385
[deg] Pointing Roll	237.669262	237.8265385722058	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	158058445.184000	158057395.60445			
Observation start date	2003-01-04T09:06:21	2003-01-04T08:49:55			
[s] Observation end time (MET)	158063445.184000	158064251.82973			
Observation end date	2003-01-04T10:29:41	2003-01-04T10:44:11			
Read mode	TIMED	TIMED			

## 2.3 Aspect



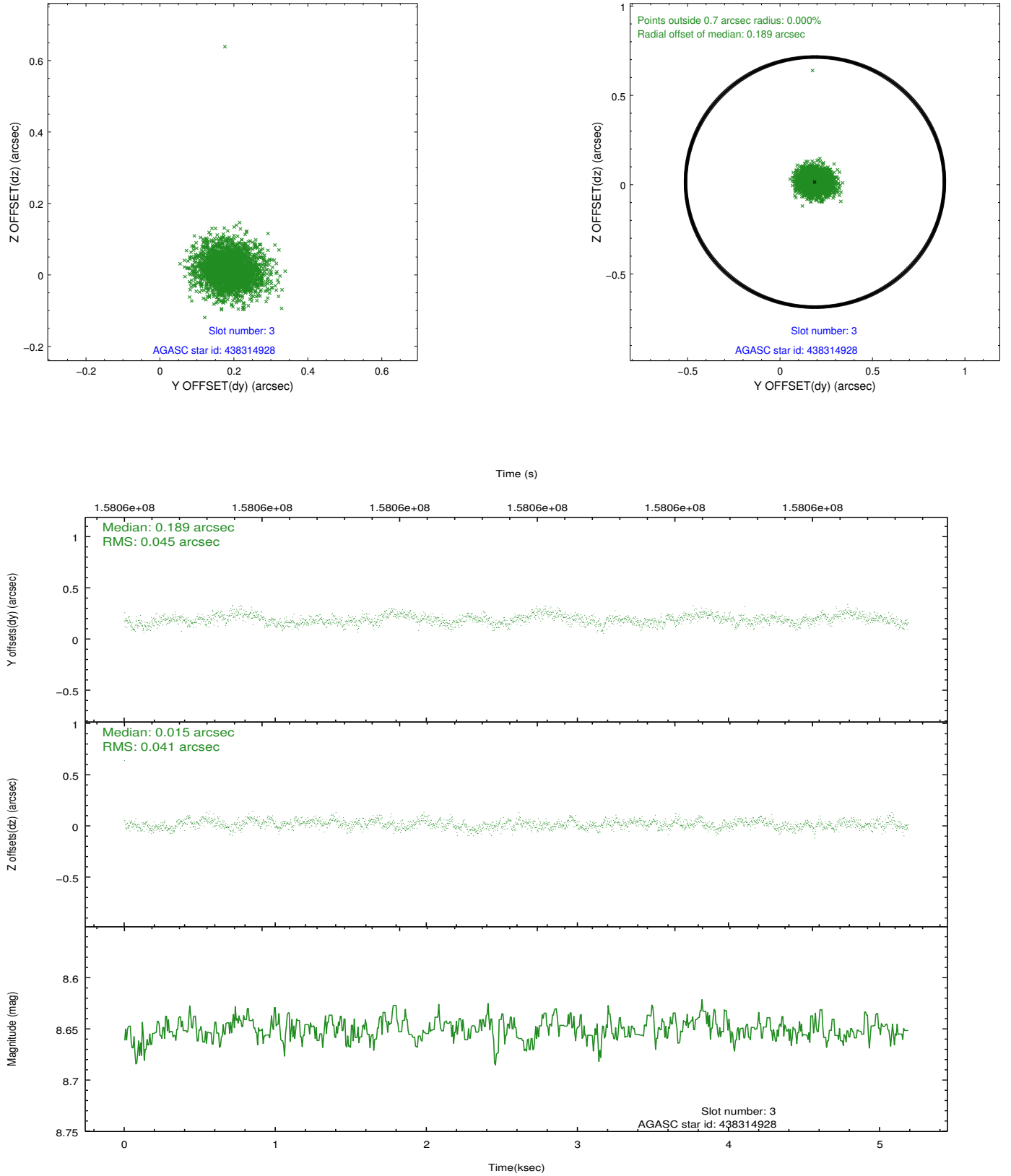


Slot Statistics

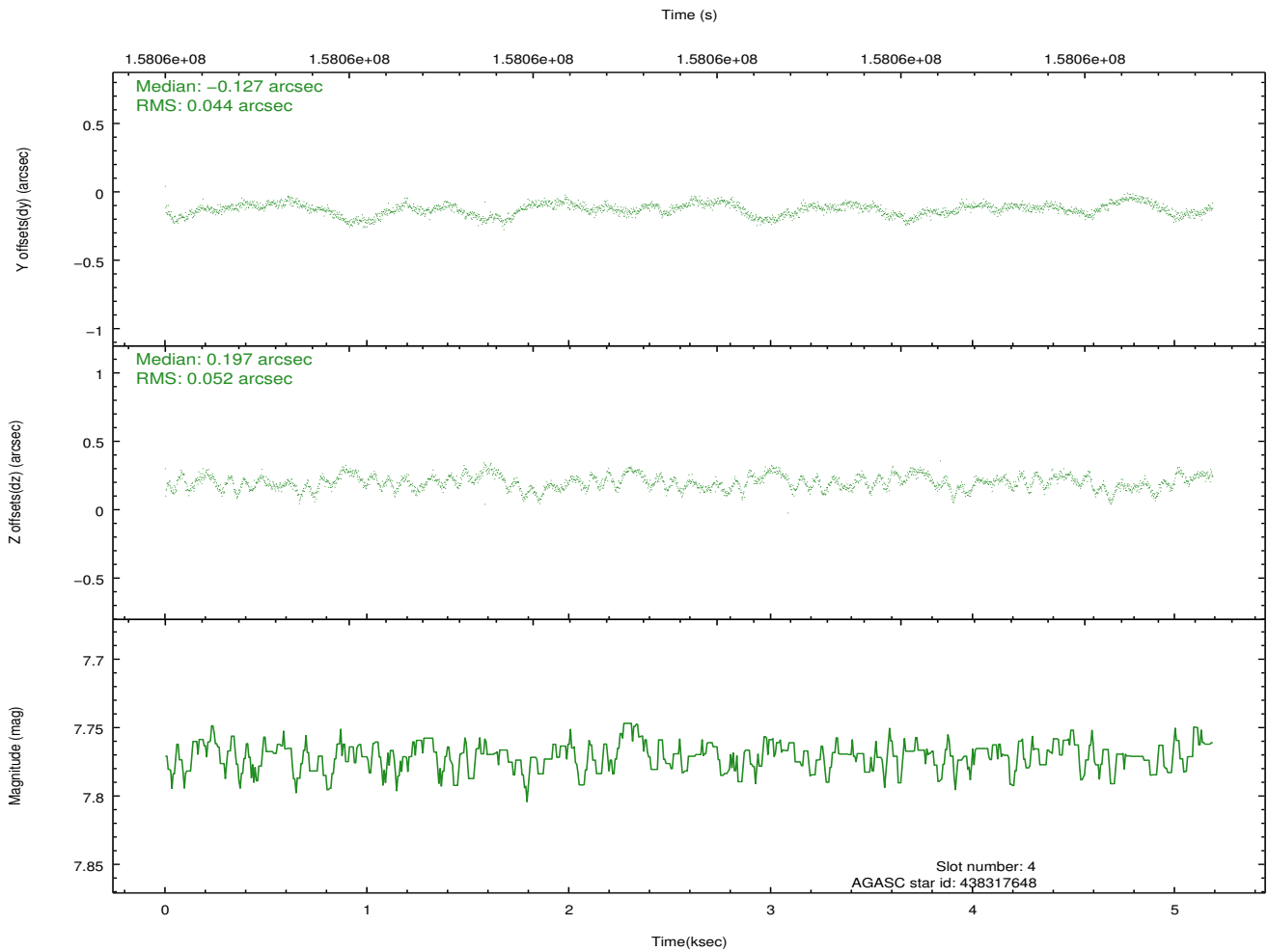
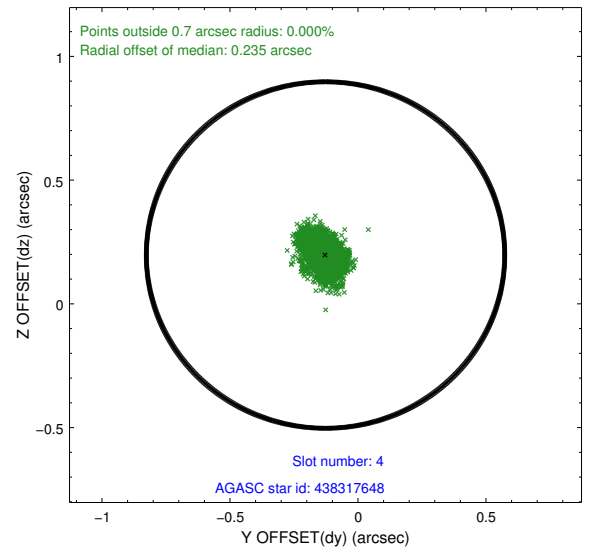
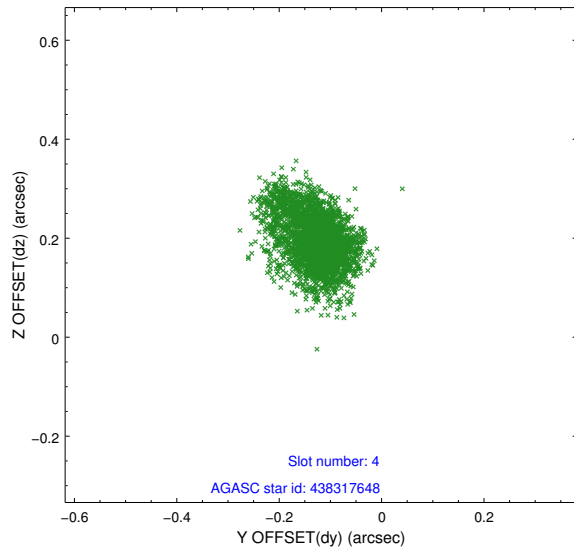
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1266	-0.064	-0.009	0.006	0.010	0.000000	0.000000	-754.38	-1727.25
1	FID	ACIS-S-4	7.21	1266	0.025	0.033	0.005	0.010	0.000000	0.000000	2158.42	180.14
2	FID	ACIS-S-5	7.24	1266	0.008	-0.015	0.006	0.010	0.000000	0.000000	-1805.69	175.00
3	GUIDE	438314928	8.65	2531	0.189	0.015	0.063	0.103	73.874149	45.276809	1169.06	-453.96
4	GUIDE	438317648	7.77	2532	-0.127	0.197	0.073	0.119	73.926274	46.107443	-1434.53	-1931.02
5	GUIDE	438327992	9.30	2532	0.010	-0.078	0.111	0.181	73.572231	45.856259	-199.36	-2204.62
6	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	438313896	9.54	2530	-0.075	-0.132	0.120	0.194	75.167370	45.813230	-2212.26	1256.20

## 2.4 Star Slots

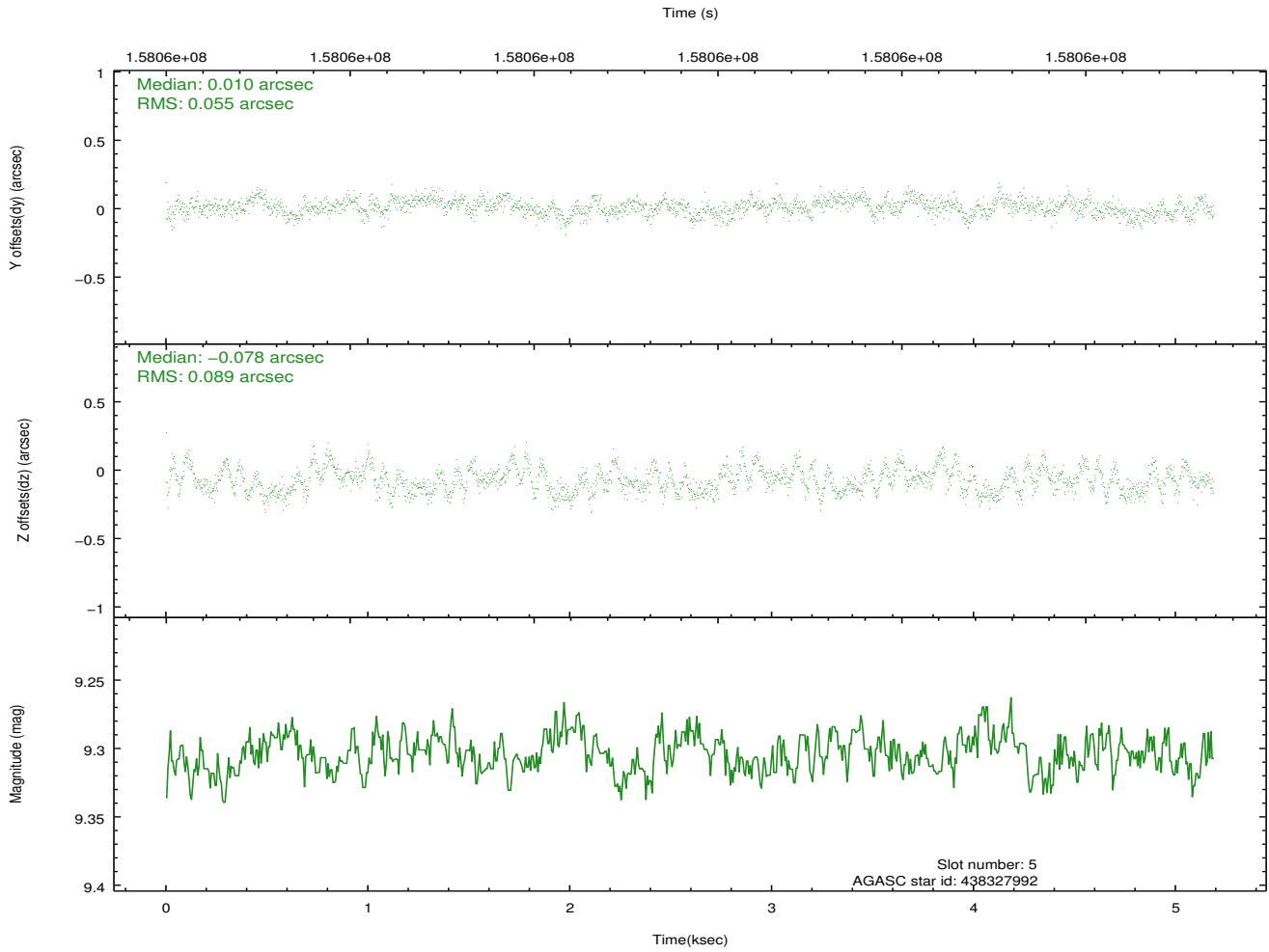
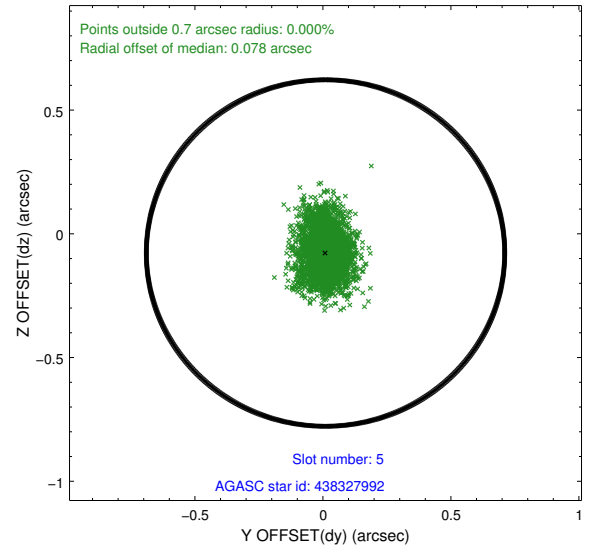
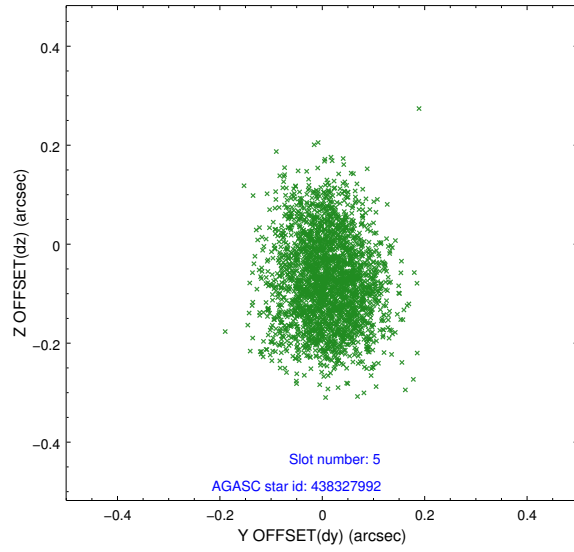
### 2.4.1 Slot 3



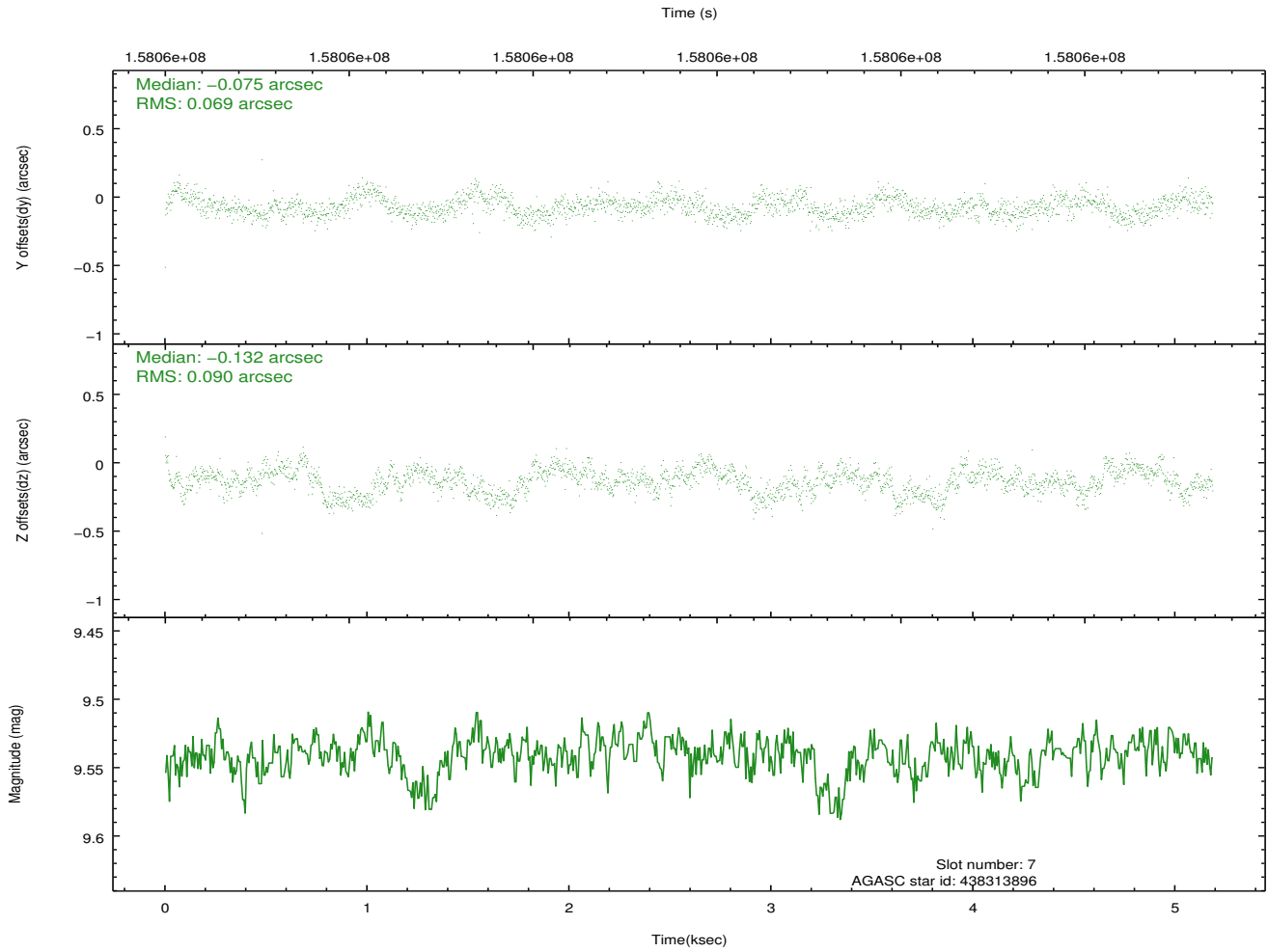
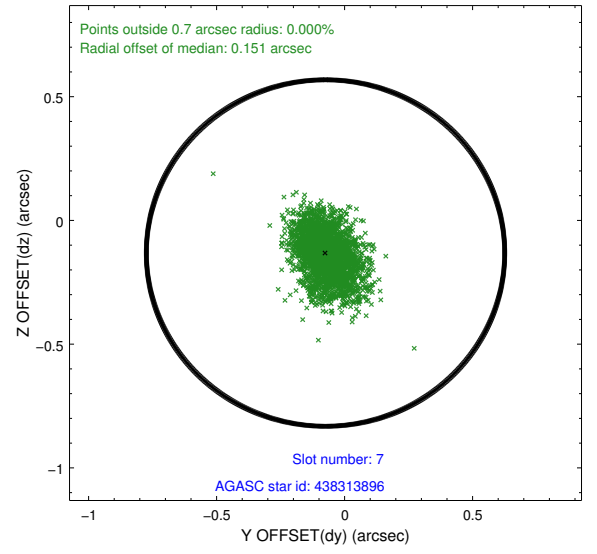
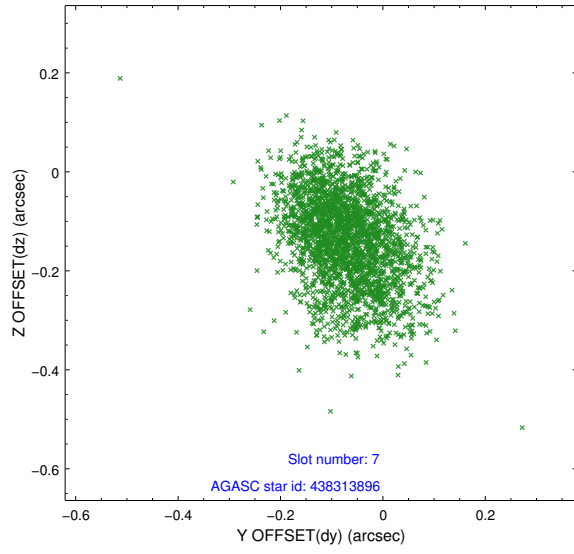
## 2.4.2 Slot 4



### 2.4.3 Slot 5



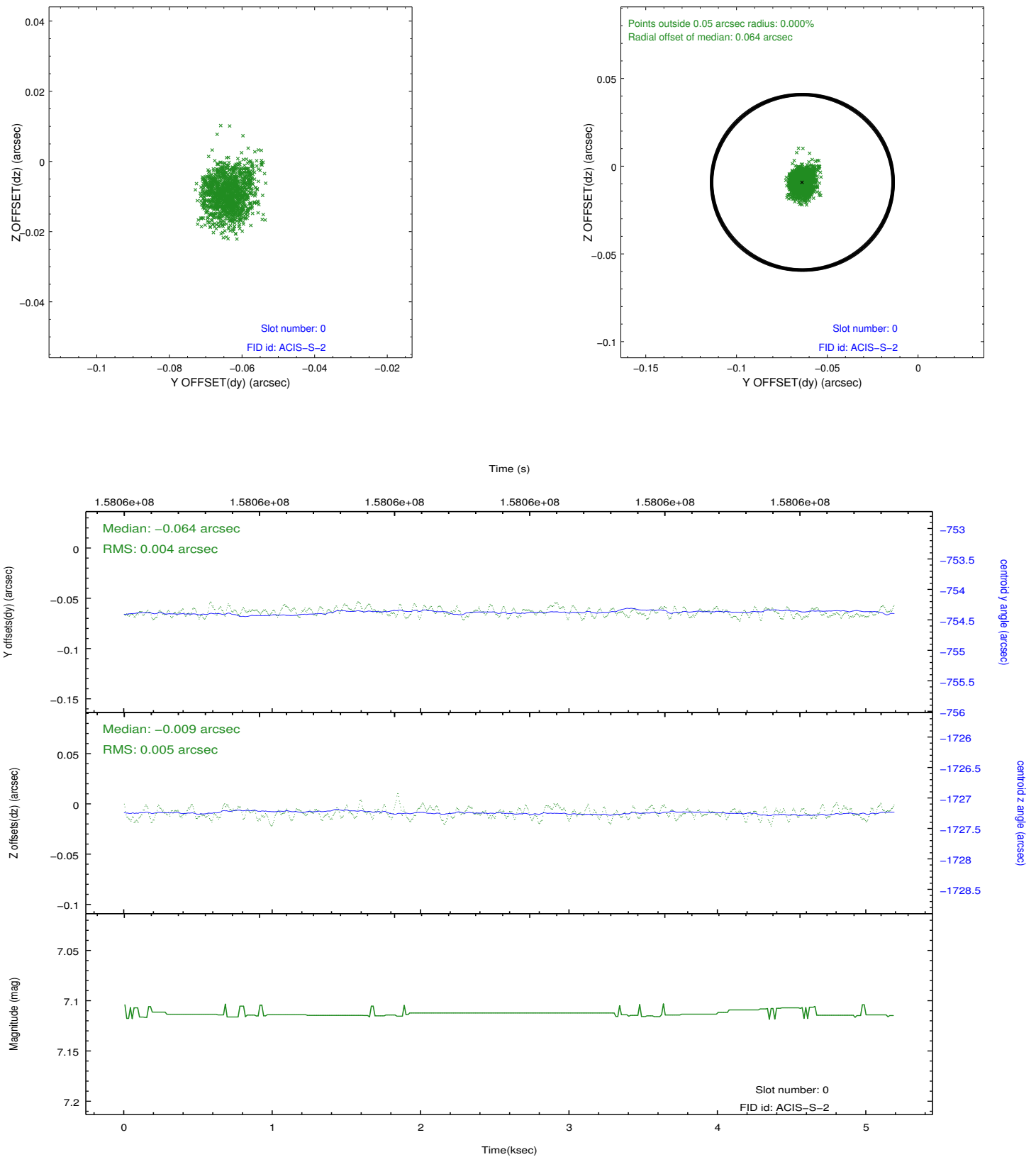
## 2.4.4 Slot 7



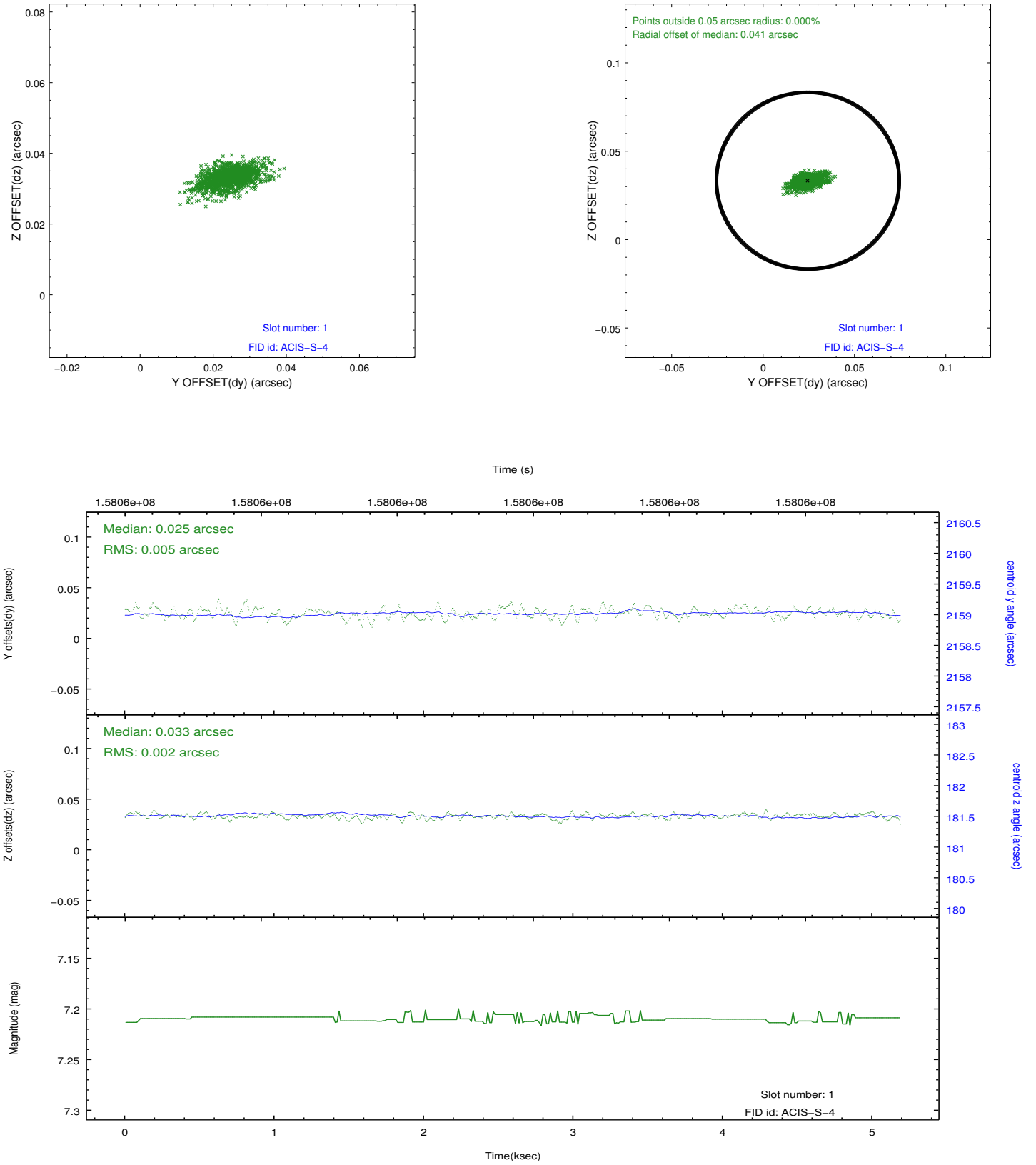


## 2.5 FID Slots

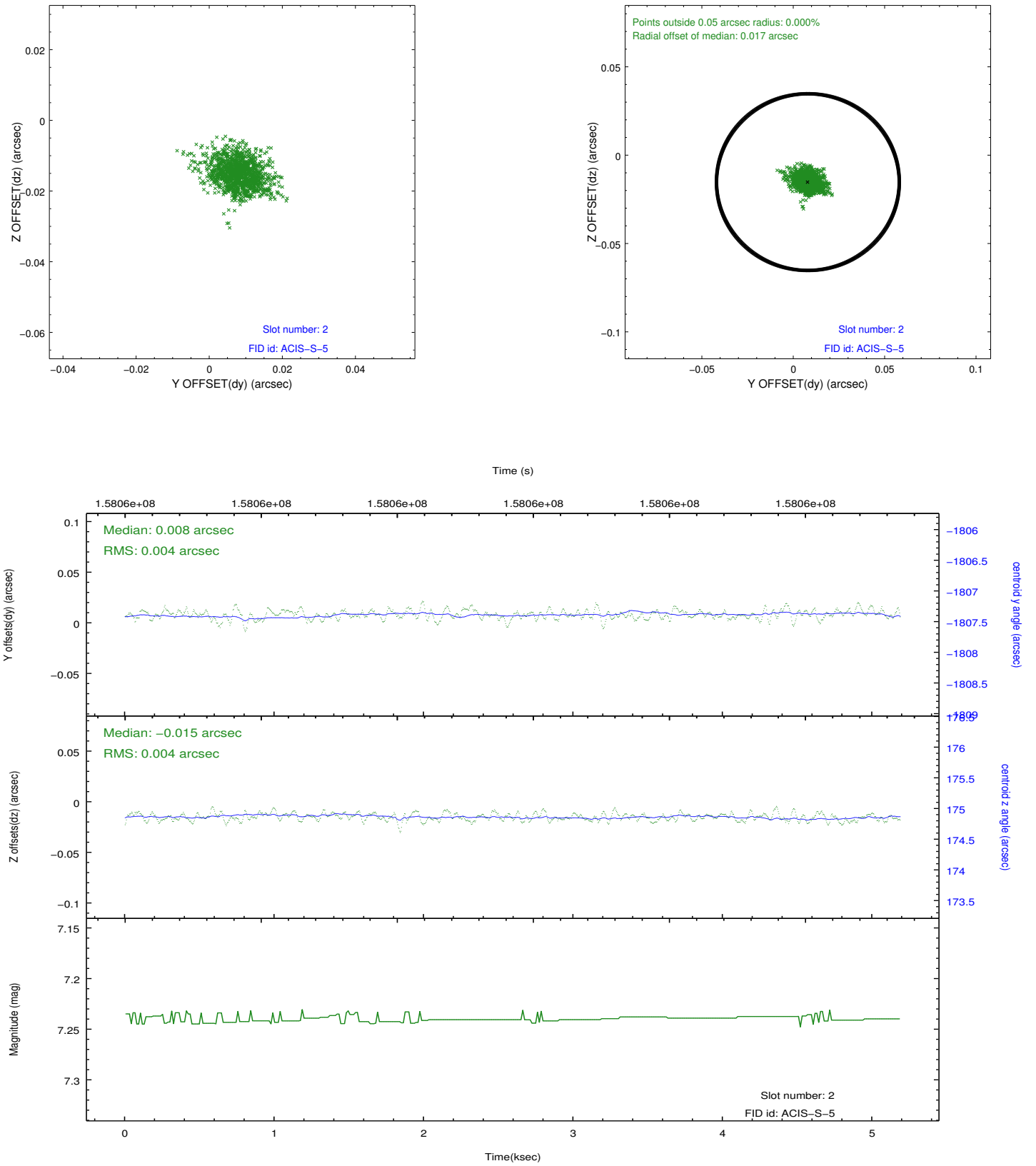
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2013.02.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.186

## A.2 Comments

The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.