

# V&V Reference Report

## L2 ASCDS Version : 10.1

Observation 14704 - L2 Version 2  
Chandra X-Ray Center

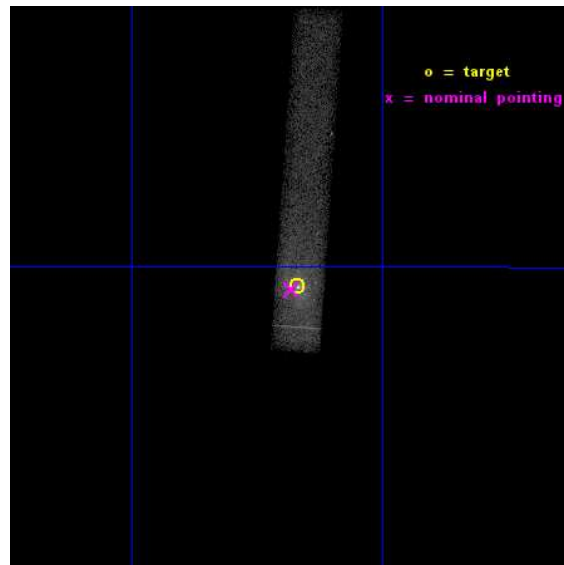
L2 Processing Date : Dec 9 2014

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# 1 Front

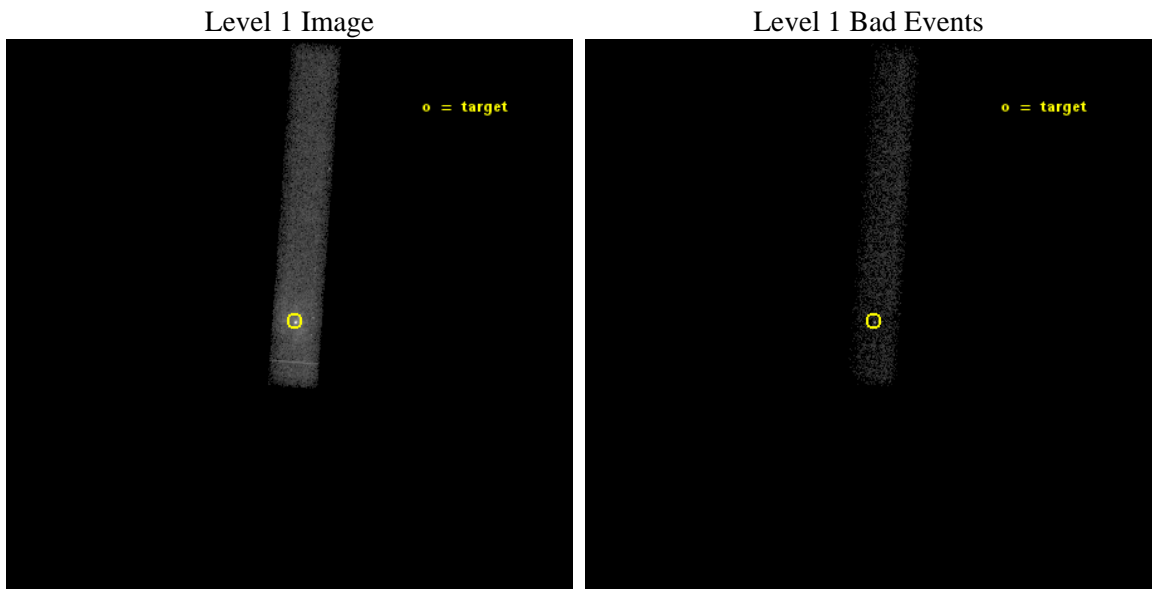
seq_num	501832	Sequence number
obs_id	14704	Observation id
title	PROMPT STUDY OF MAGNETAR OUTBURSTS WITH CHANDRA	Proposal title
observer	Dr. Nanda Rea	Principal investigator
object	NEWMAGNETAR	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.417458	Observer's specified target RA [deg]
dec_targ	-29.007889	Observer's specified target Dec [deg]
ra_nom	266.42049029848	Nominal RA [deg]
dec_nom	-29.009319810403	Nominal Dec [deg]
roll_nom	274.15810632504	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40069.597611666	Sum of GTIs [s]
livetime	36341.009987	Livetime [s]
ontime7	40069.597611666	Sum of GTIs [s]
l2events	49822	Number of level 2 events



## 2 OBI

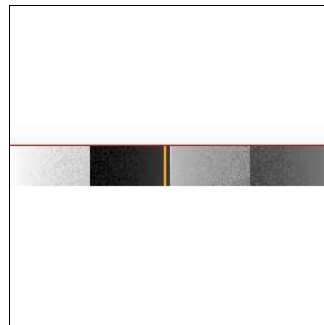
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	40069.597611666	Sum of GTIs [s]
caldbver	4.6.4	&#160	ontime7	40069.597611666	Sum of GTIs [s]
date	2014-12-09T05:22:44	Date and time of file creation	l1events	69899	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

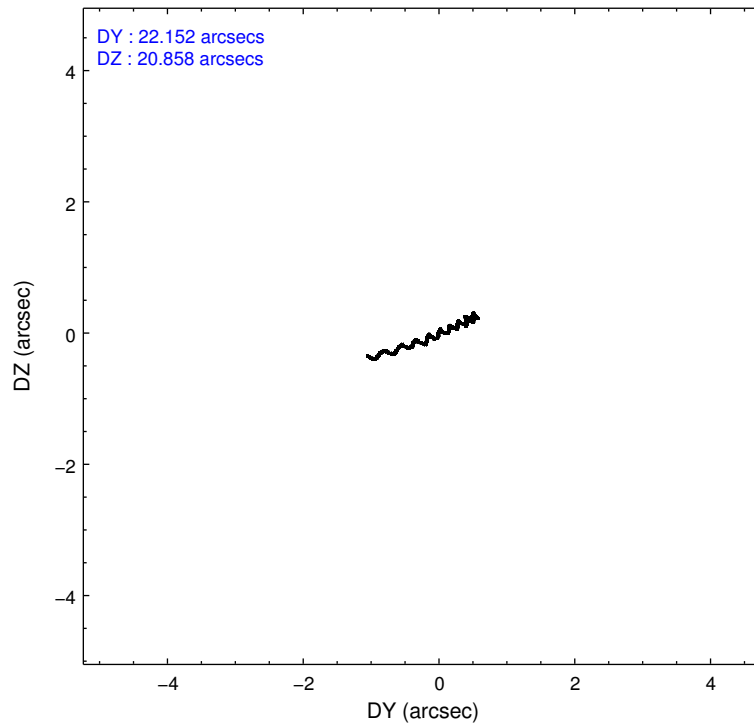
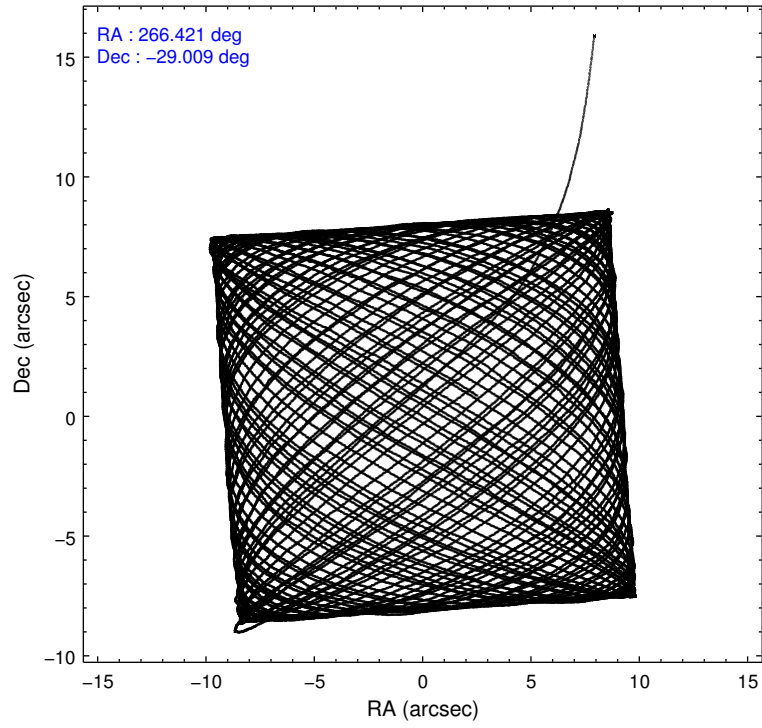
	<b>ccd 7</b>
level 1 events	69899
rejected events	19243
rejected %	27%

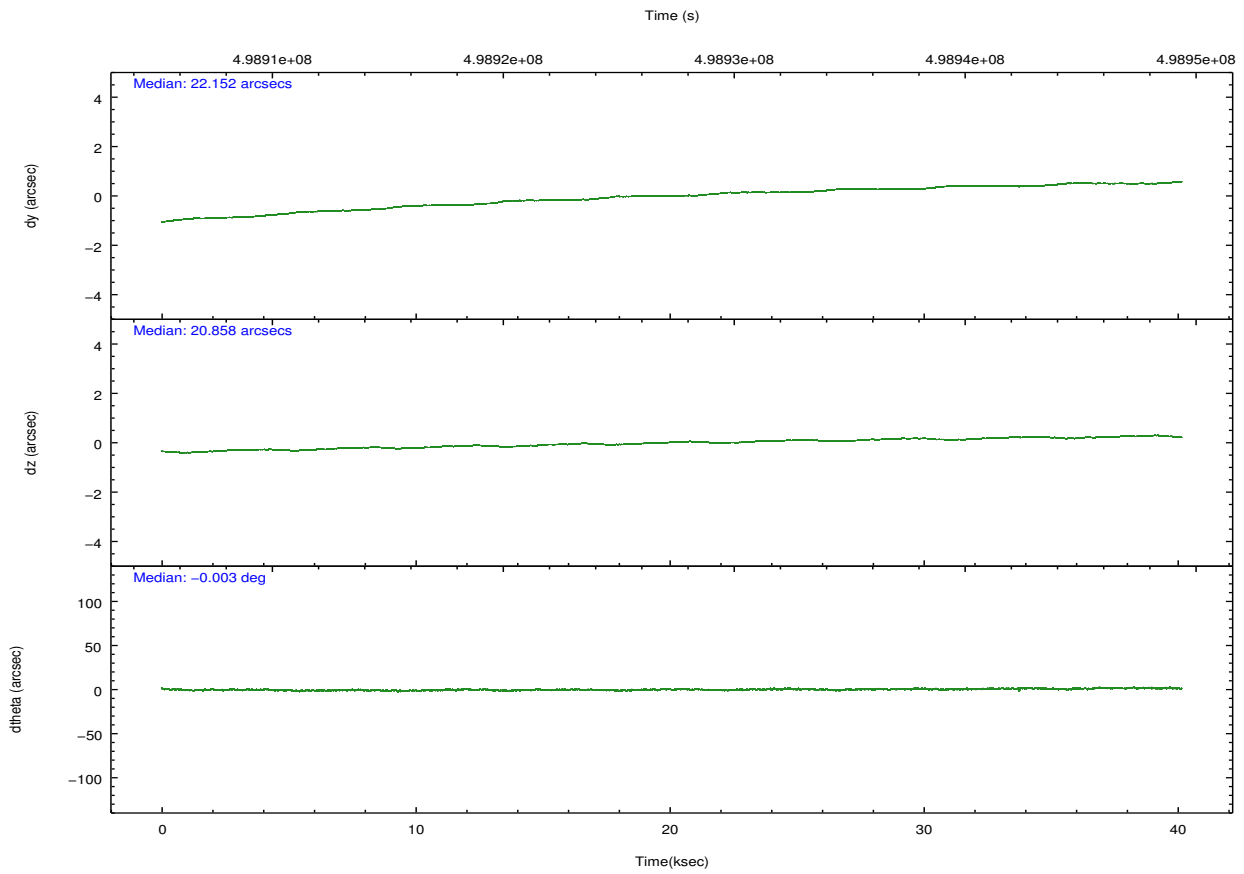
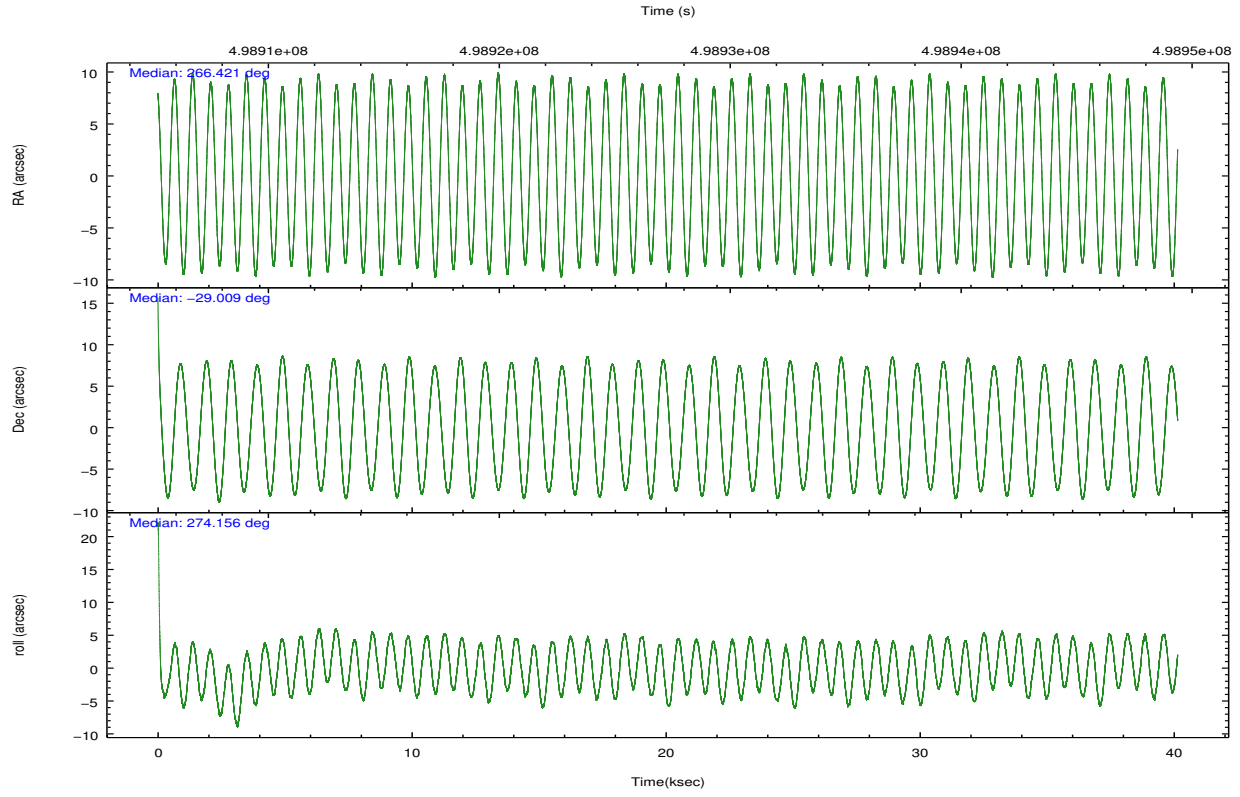
	<b>ccd 7</b>
grade 0 events	8133
	11%
grade 1 events	75
	0%
grade 2 events	11242
	16%
grade 3 events	5993
	8%
grade 4 events	5631
	8%
grade 5 events	3977
	5%
grade 6 events	19659
	28%
grade 7 events	15189
	21%

## 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	266.402603	266.4204902984778	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-28.986912	-29.00931981040313	Subarray start row	449	449
[deg] Pointing Roll	273.992806	274.1581063250369	Subarray row count	128	128
[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	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	498907369.184000	498905670.57666			
Observation start date	2013-10-23T09:21:42	2013-10-23T08:54:30			
[s] Observation end time (MET)	498947369.184000	498948224.99149			
Observation end date	2013-10-23T20:28:22	2013-10-23T20:43:44			
Read mode	TIMED	TIMED			

## 2.3 Aspect





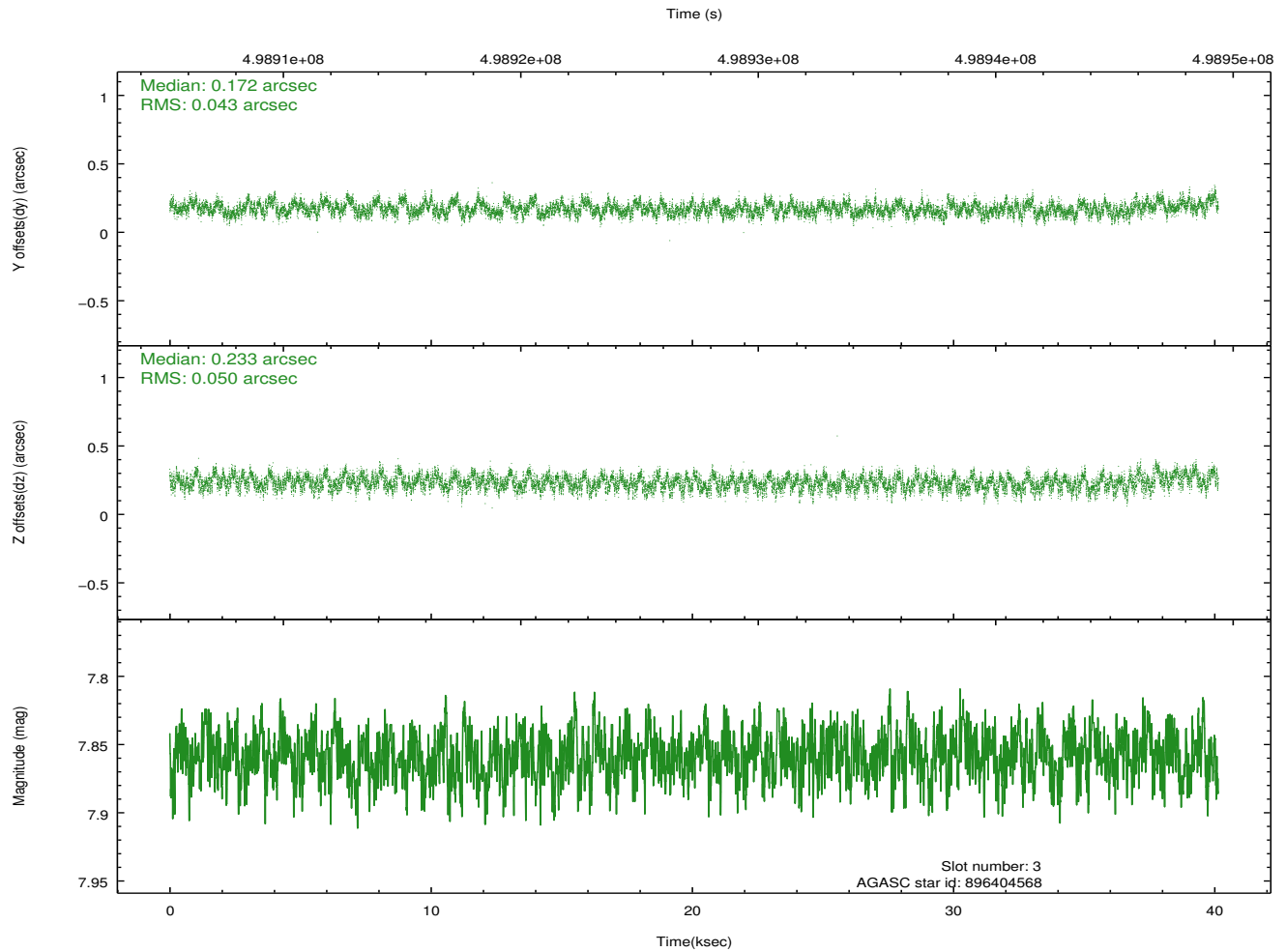
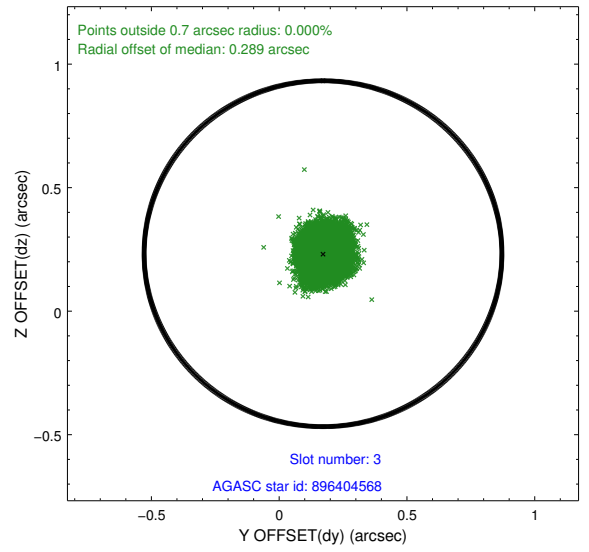
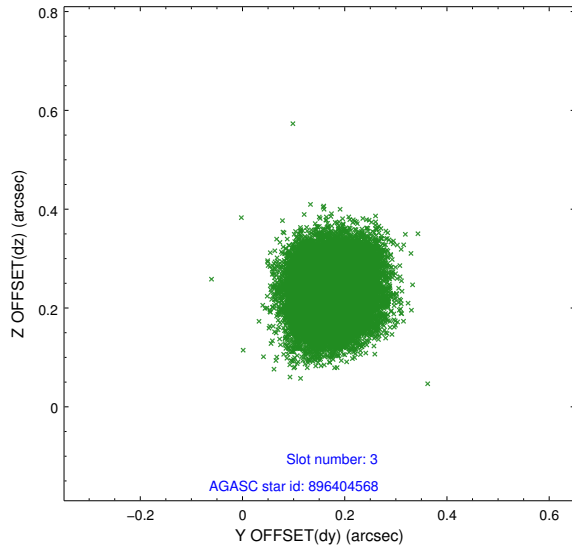
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	9792	-0.103	-0.052	0.008	0.014	0.000000	0.000000	-775.39	-1742.35
1	FID		ACIS-S-4	7.02	9790	0.141	0.051	0.009	0.015	0.000000	0.000000	2138.17	166.14
2	FID		ACIS-S-6	7.14	9790	-0.066	0.008	0.009	0.016	0.000000	0.000000	386.71	803.56
3	GUIDE	used	896404568	7.86	19581	0.172	0.233	0.071	0.112	265.687293	-28.431080	-2146.59	-2119.99
4	GUIDE	used	896533888	7.02	19582	-0.030	-0.109	0.059	0.095	266.666434	-29.392757	1516.16	723.68
5	GUIDE	used	896541360	7.71	19577	-0.023	-0.091	0.070	0.107	266.684478	-29.453744	1739.41	764.49
6	GUIDE	used	896541576	8.19	19580	-0.195	-0.015	0.068	0.110	267.051055	-28.762912	-656.28	2097.32
7	GUIDE	used	896537176	8.03	19577	0.076	-0.021	0.065	0.103	266.498272	-28.678259	-1086.98	378.96

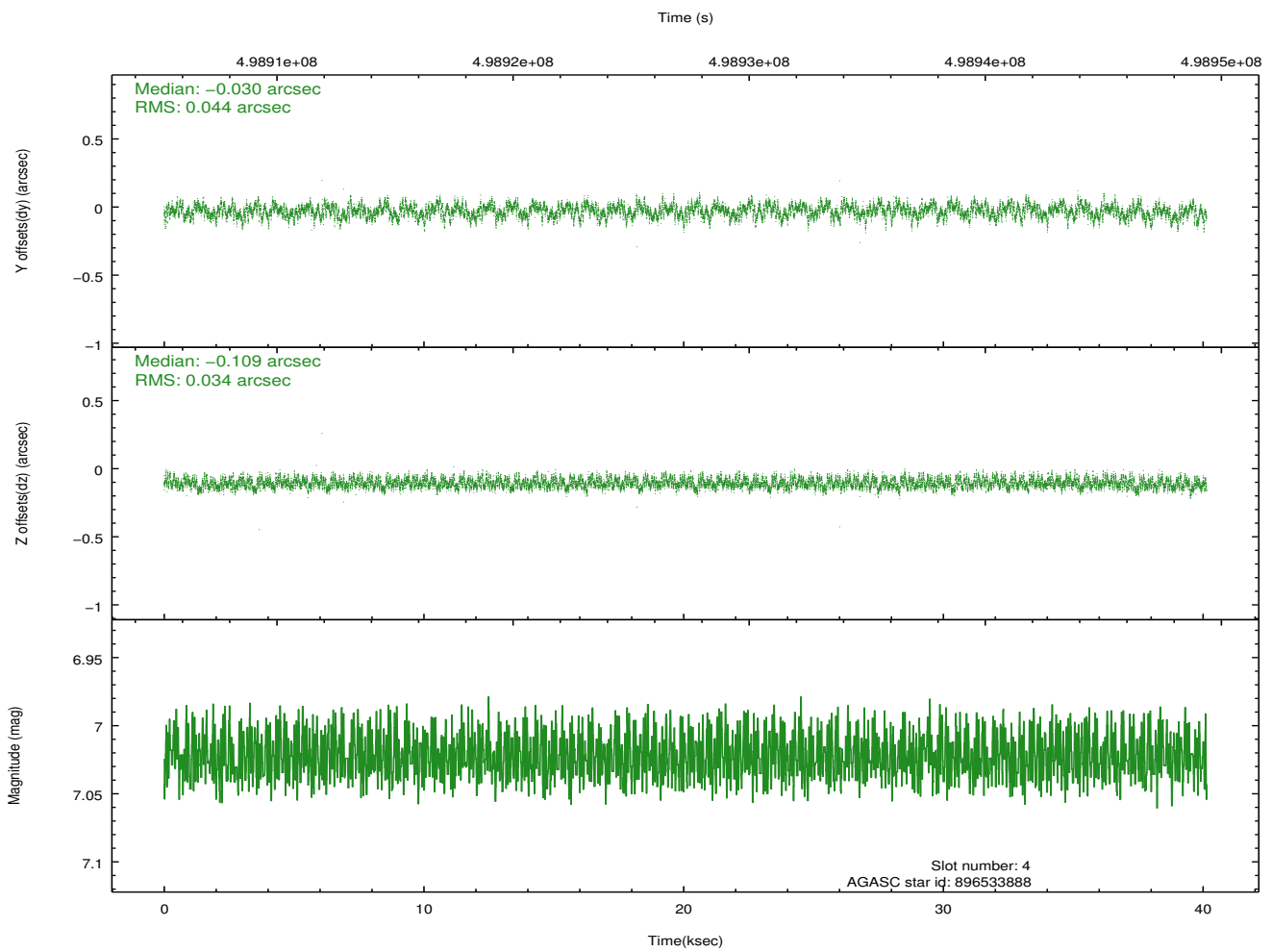
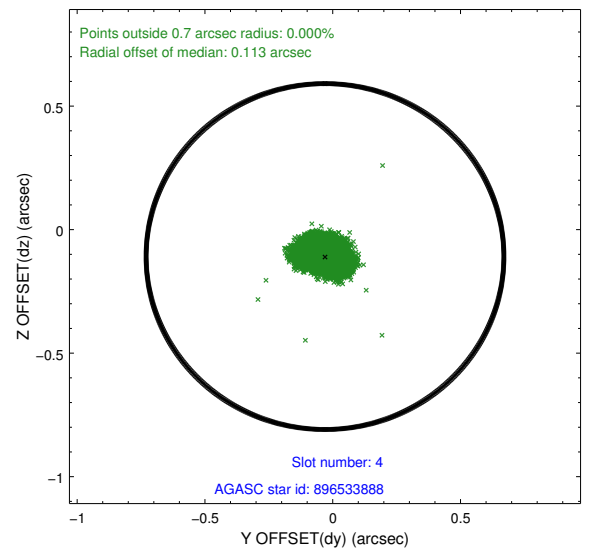
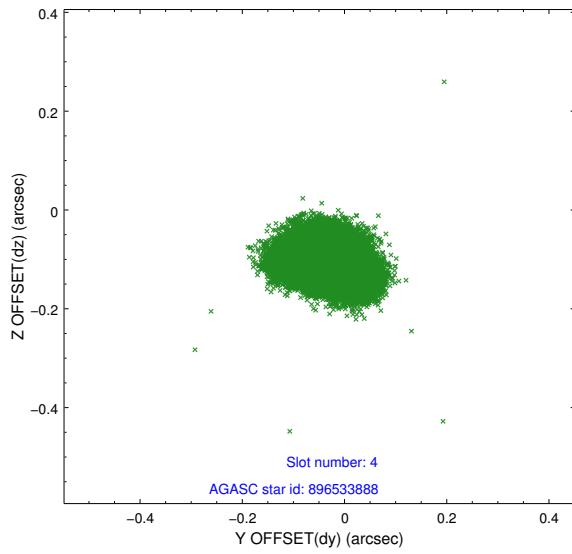
∞

## 2.4 Star Slots

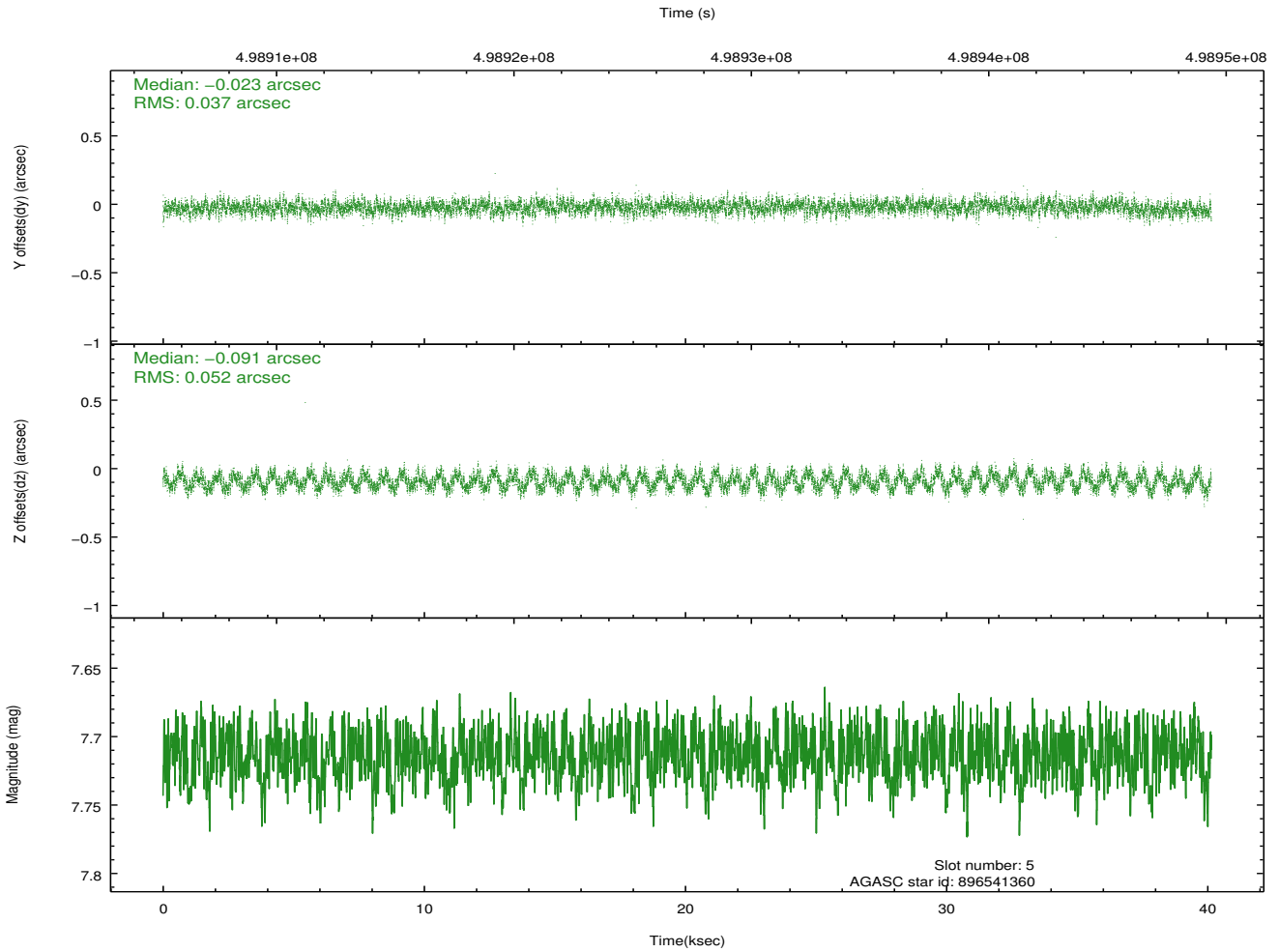
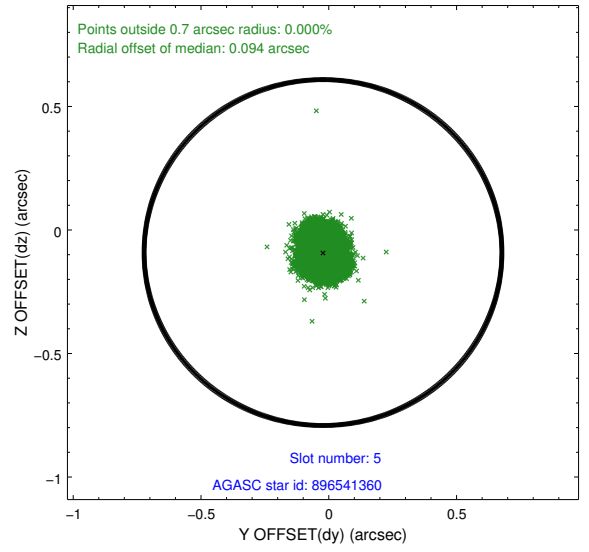
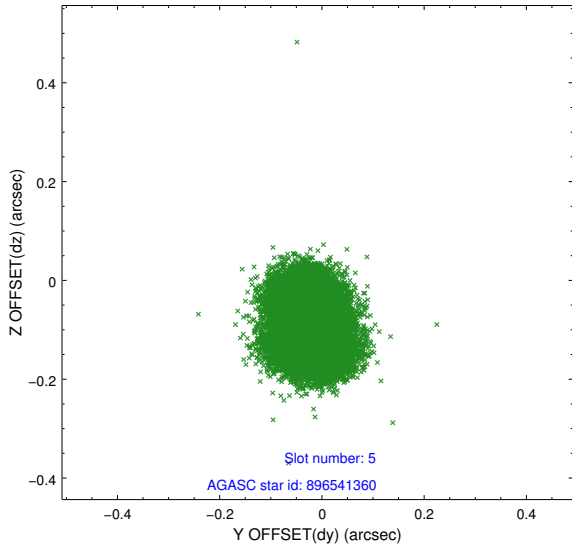
### 2.4.1 Slot 3



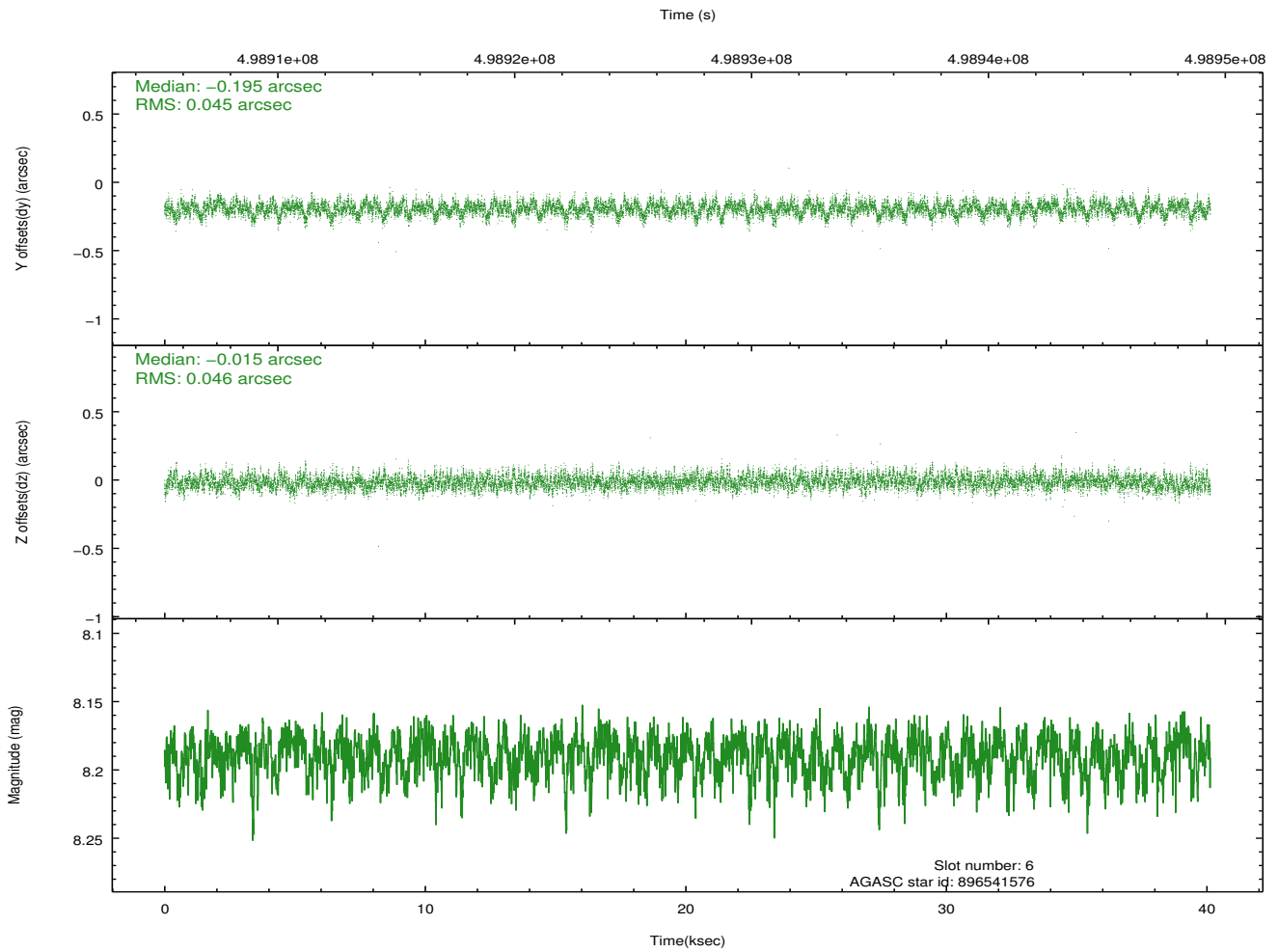
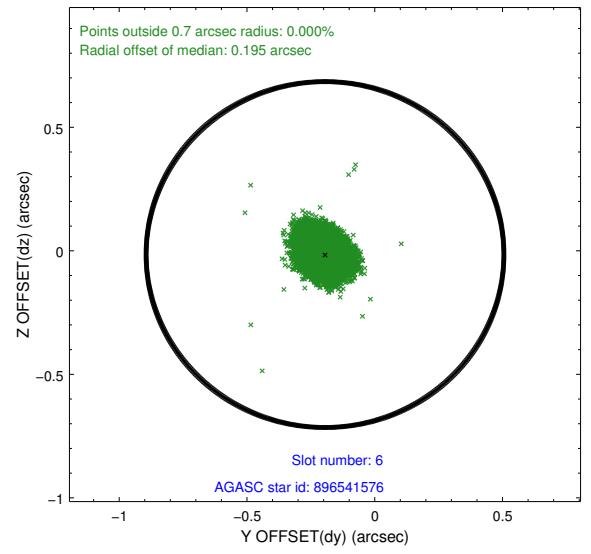
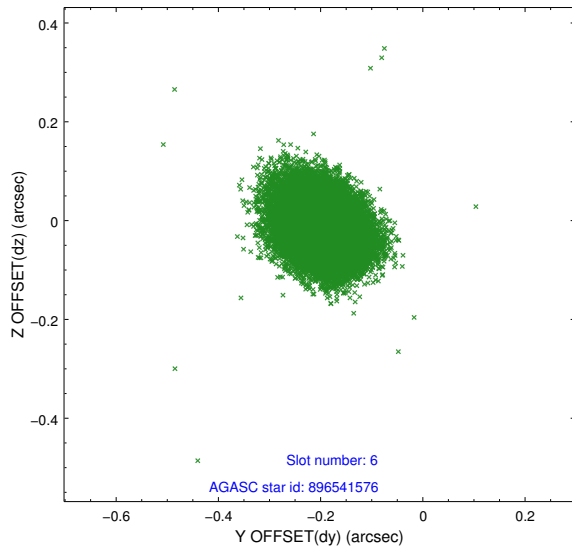
## 2.4.2 Slot 4



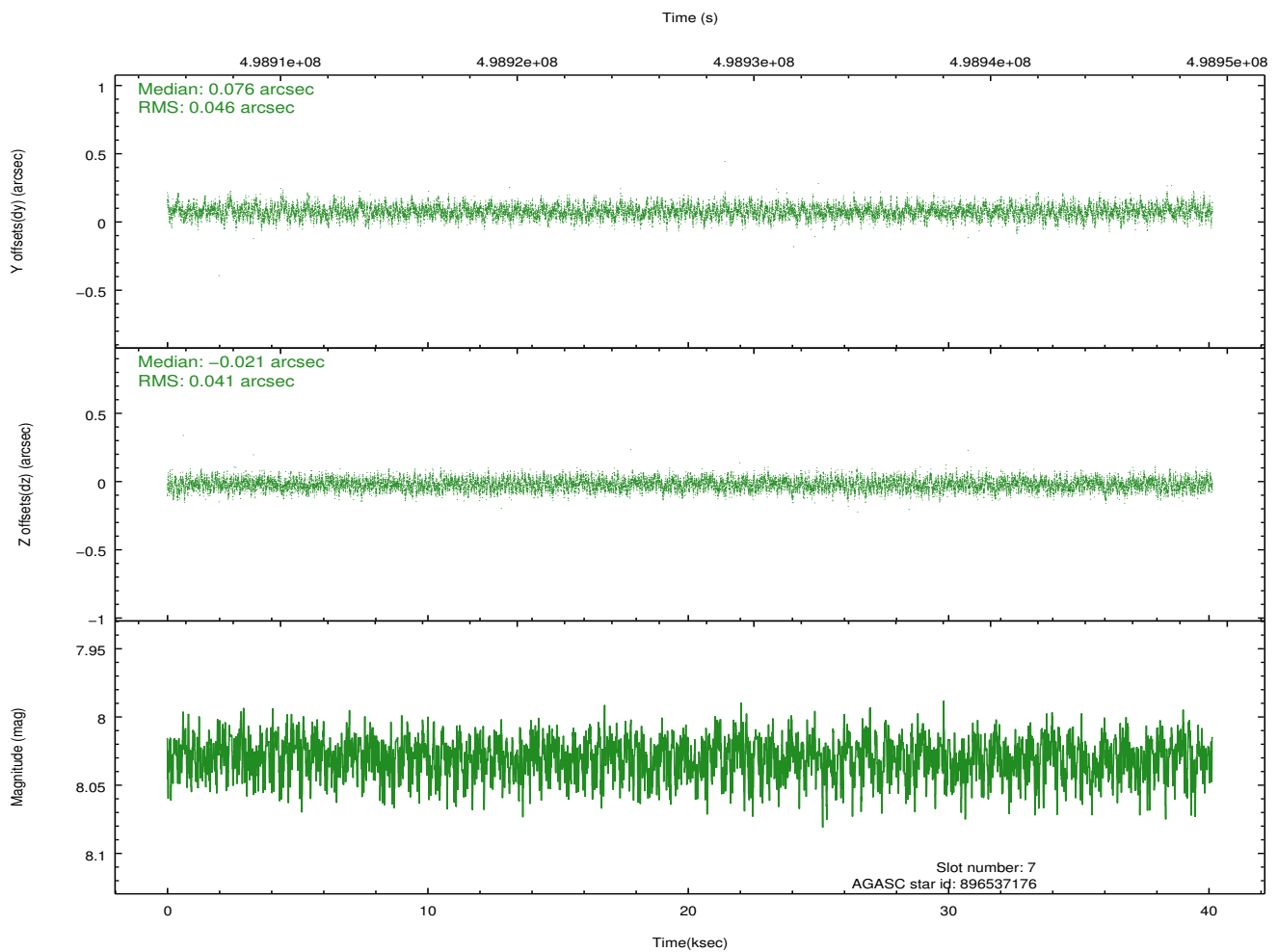
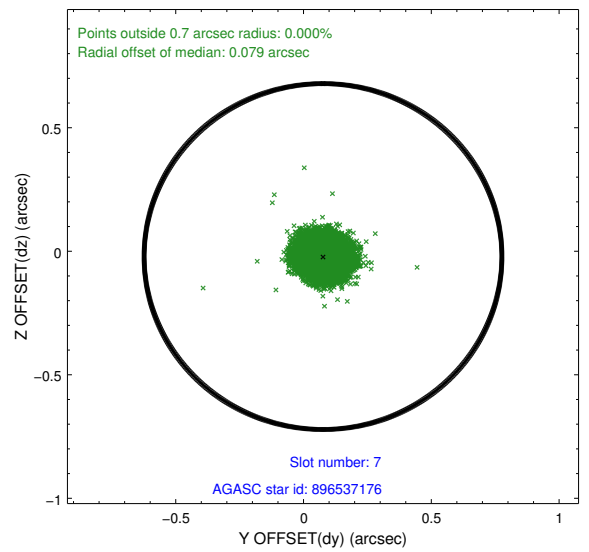
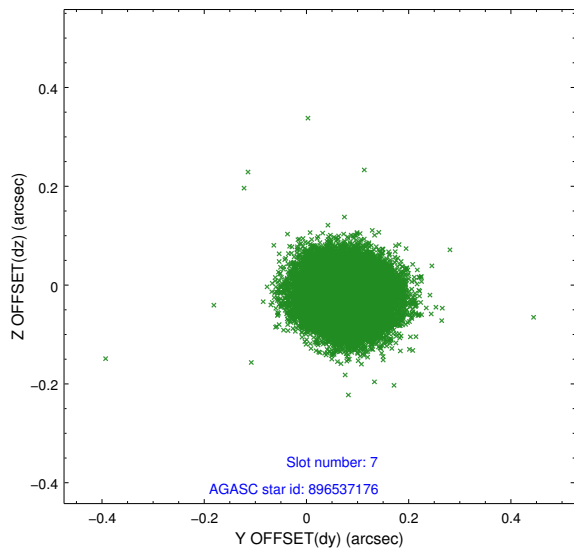
### 2.4.3 Slot 5



## 2.4.4 Slot 6

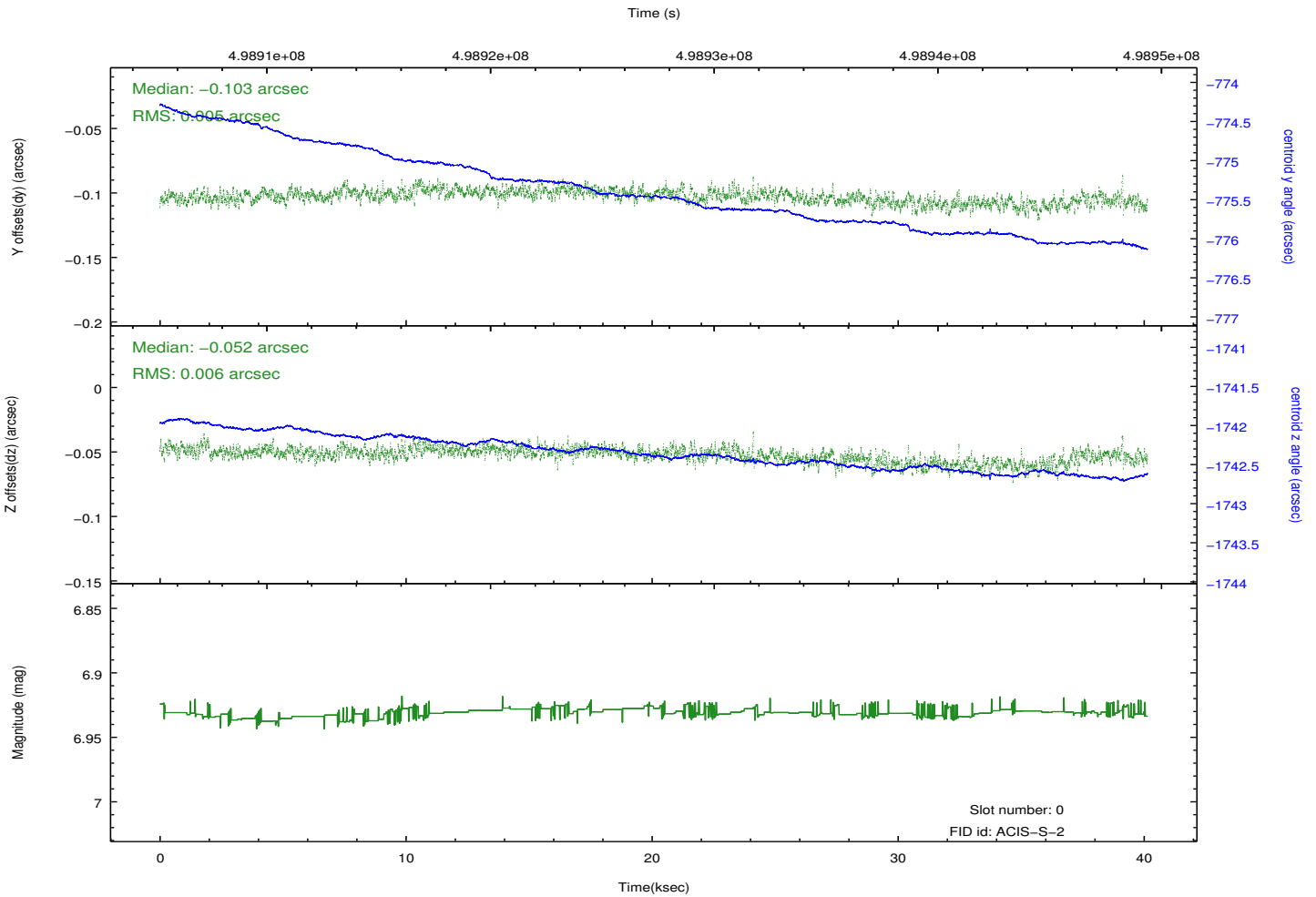
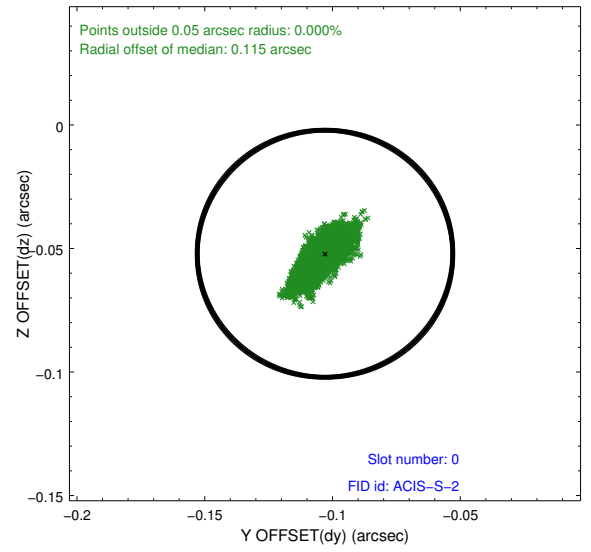
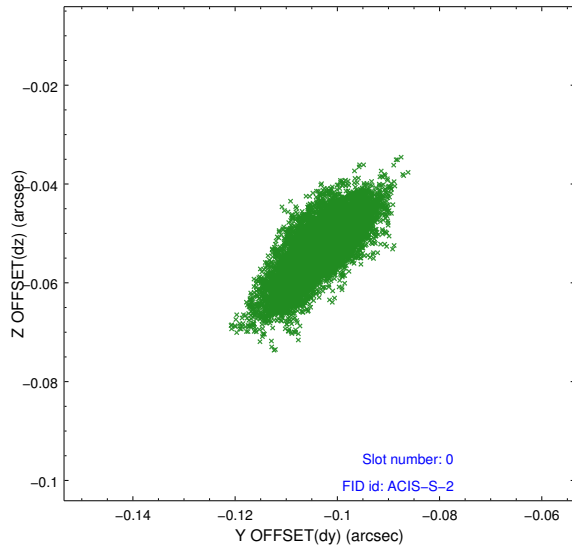


## 2.4.5 Slot 7

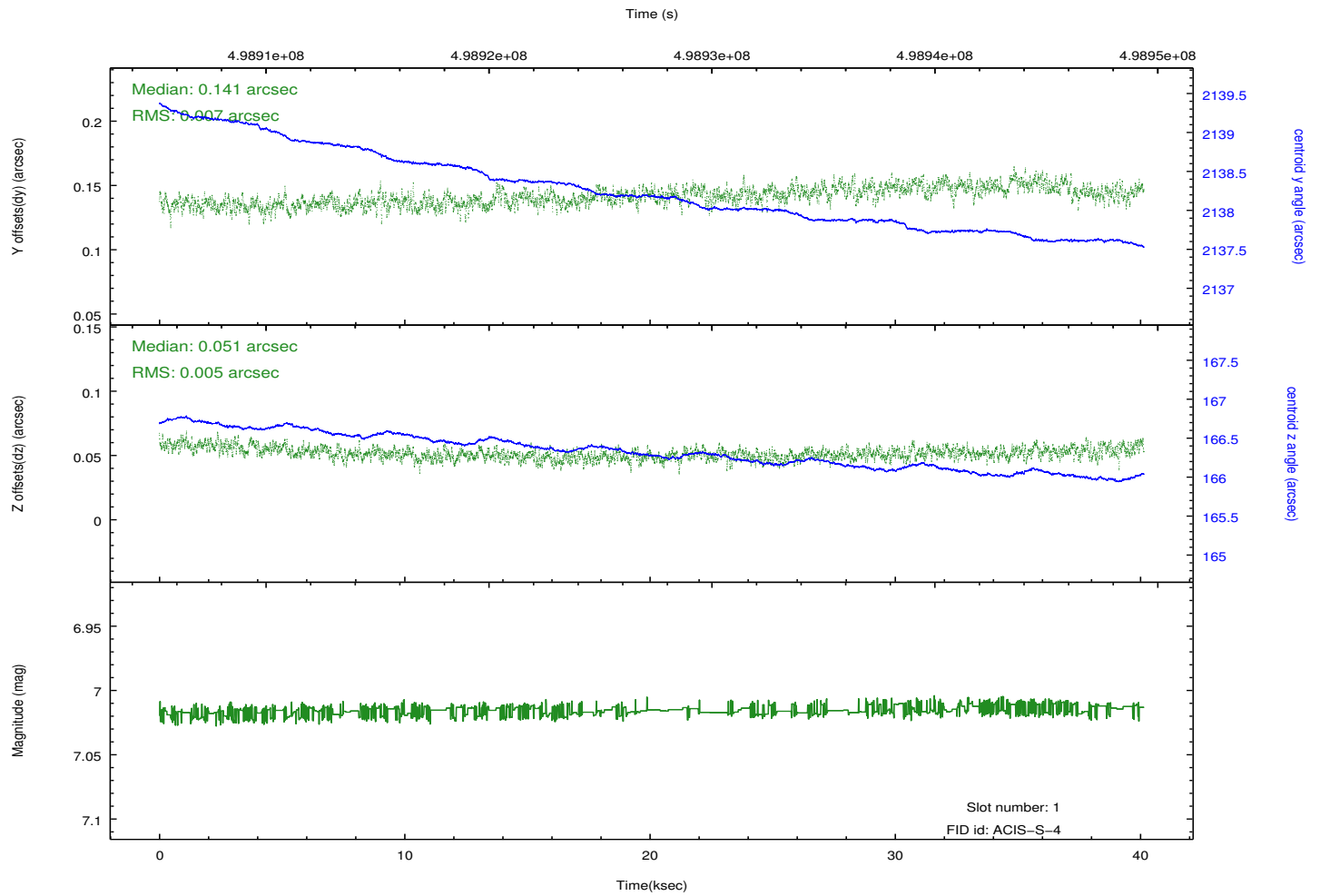
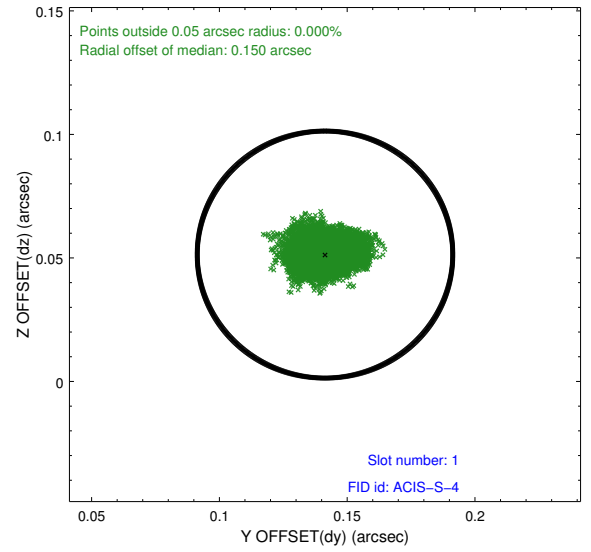
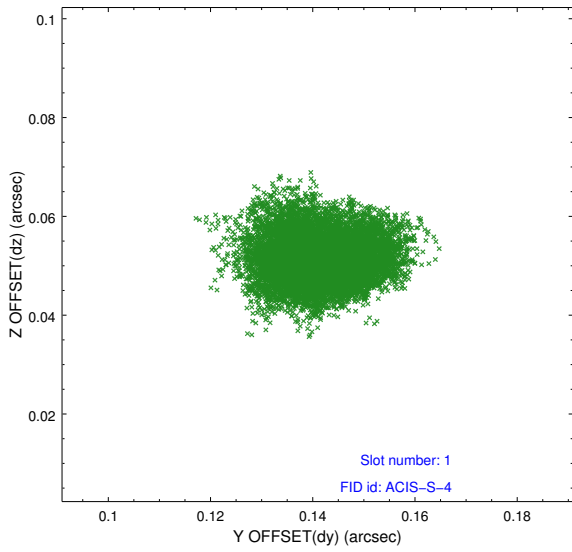


## 2.5 FID Slots

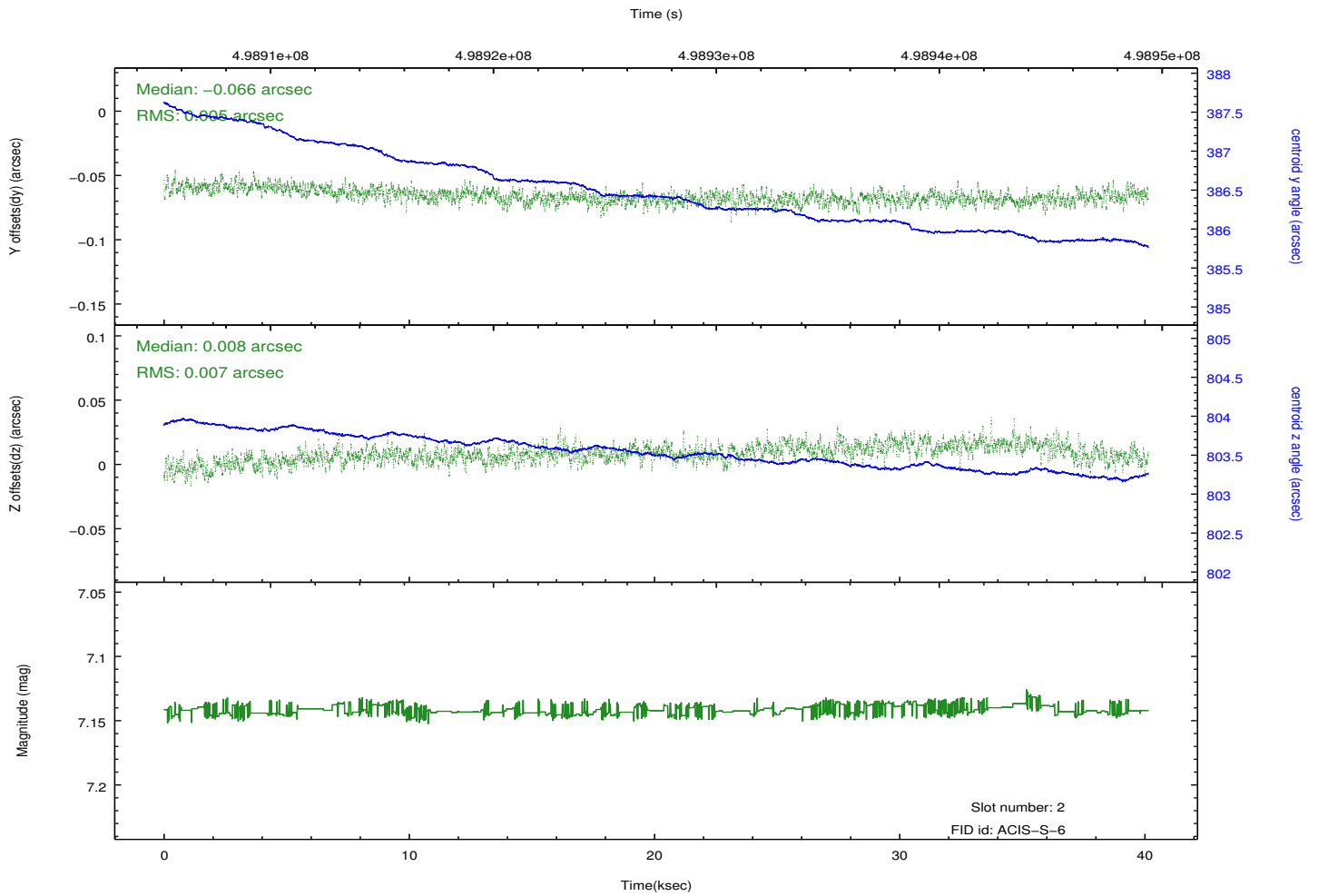
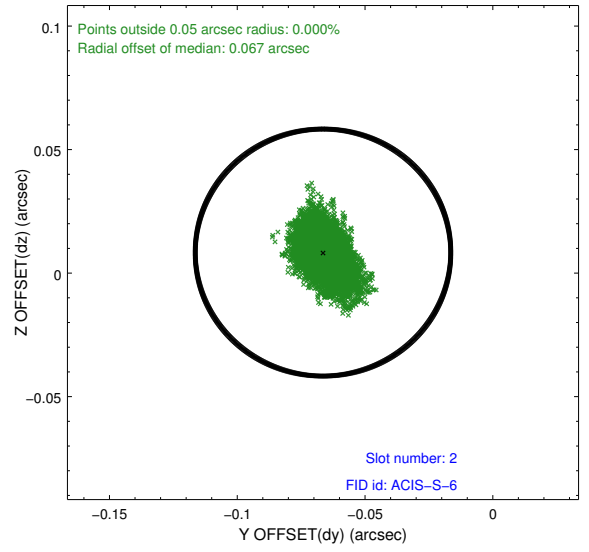
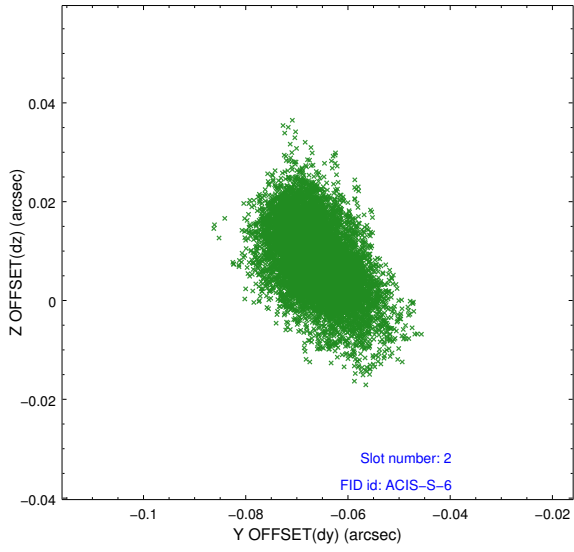
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.069597611666

## A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.