

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 14637 - L2 Version 2  
Chandra X-Ray Center

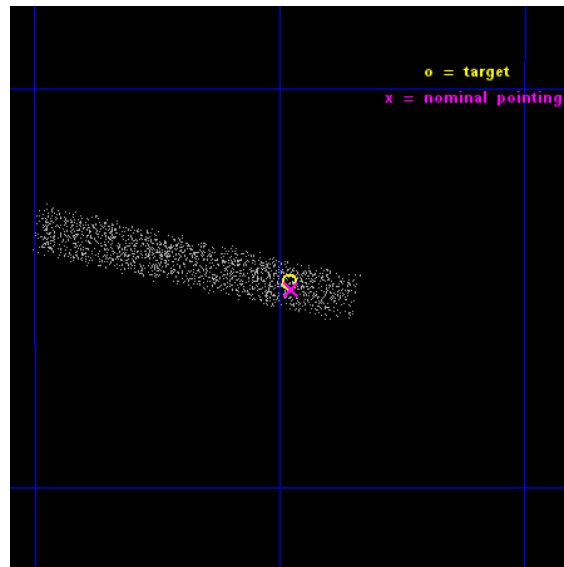
L2 Processing Date : Dec 4 2014

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# 1 Front

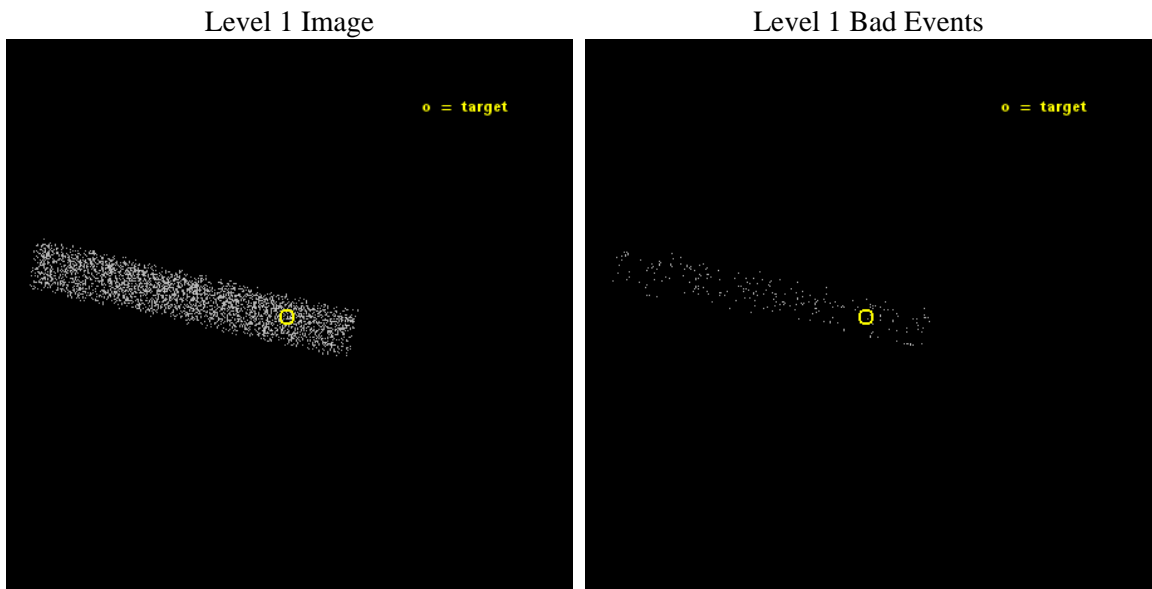
seq_num	401470	Sequence number
obs_id	14637	Observation id
title	A snap-shot survey of Galatic neutron-star Be/X-ray transients in quiescence	Proposal title
observer	Dr. Rudy Wijnands	Principal investigator
object	RX J0812.4-3114	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	123.12	Observer's specified target RA [deg]
dec_targ	-31.247833	Observer's specified target Dec [deg]
ra_nom	123.11881747704	Nominal RA [deg]
dec_nom	-31.250716415487	Nominal Dec [deg]
roll_nom	192.03258077638	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5069.5679647326	Sum of GTIs [s]
livetime	4597.8305502745	Livetime [s]
ontime7	5069.5679647326	Sum of GTIs [s]
l2events	2064	Number of level 2 events



## 2 OBI

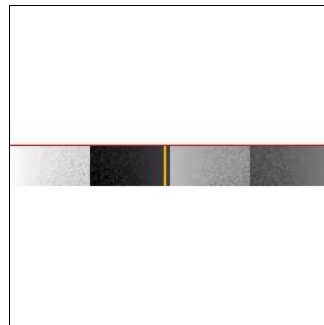
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5069.5679647326	Sum of GTIs [s]
caldbver	4.6.4	&#160	ontime7	5069.5679647326	Sum of GTIs [s]
date	2014-12-04T18:55:59	Date and time of file creation	l1events	4205	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

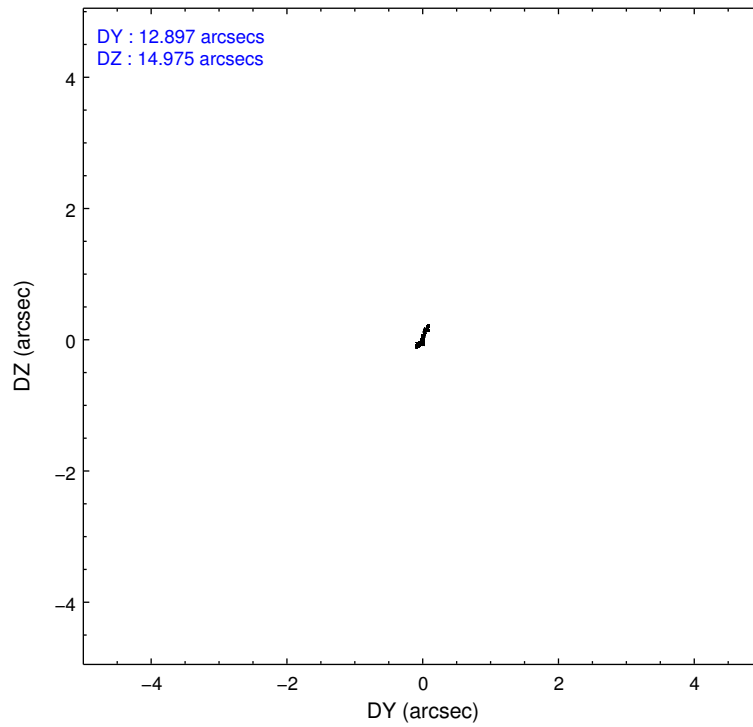
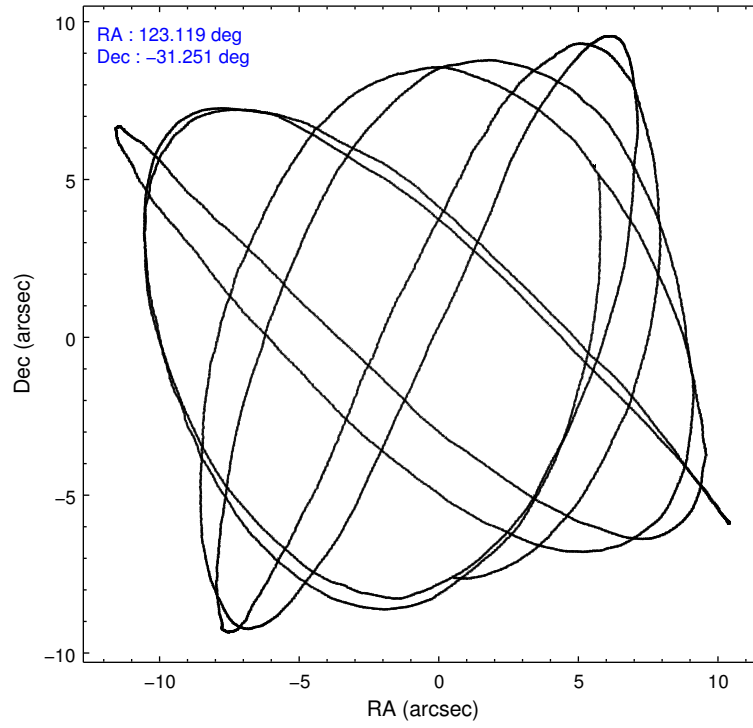
	<b>ccd 7</b>
level 1 events	4205
rejected events	2052
rejected %	<b>48%</b>

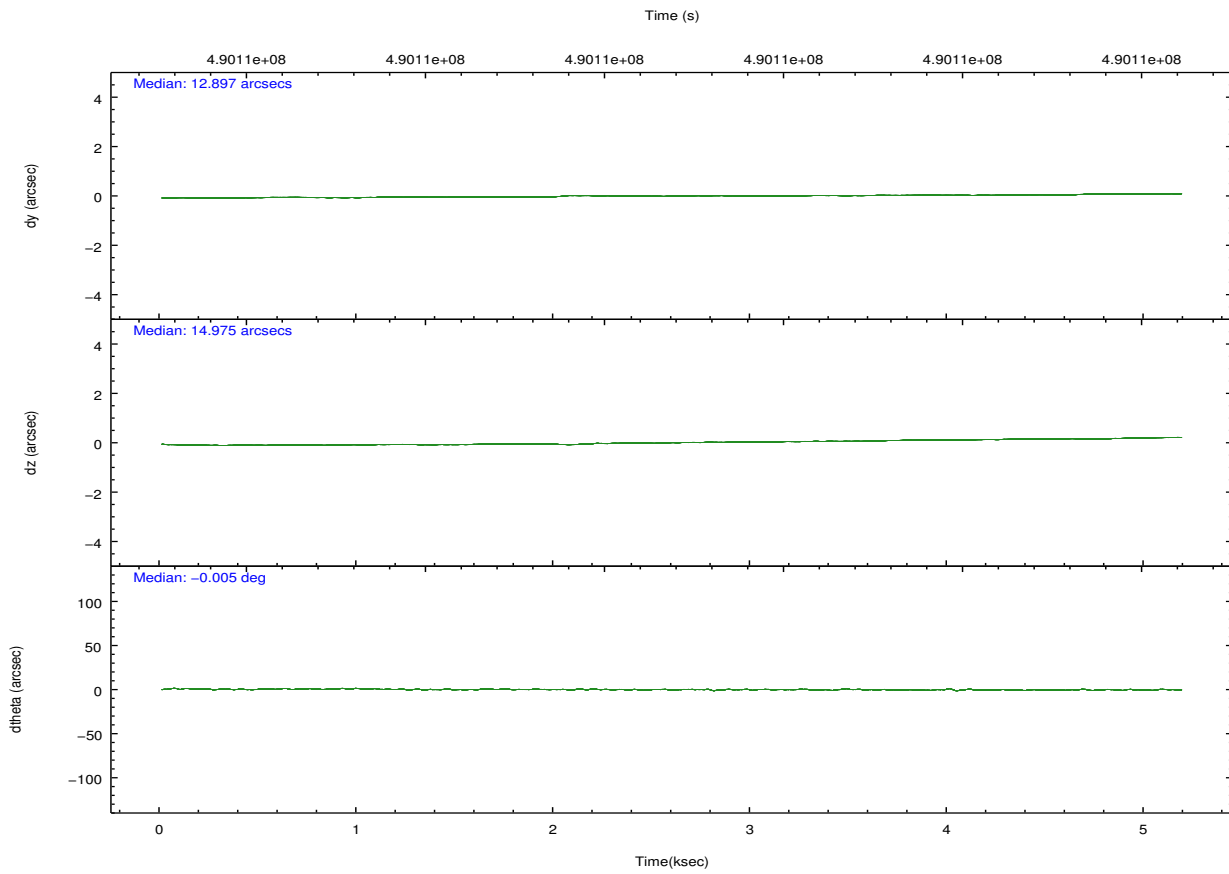
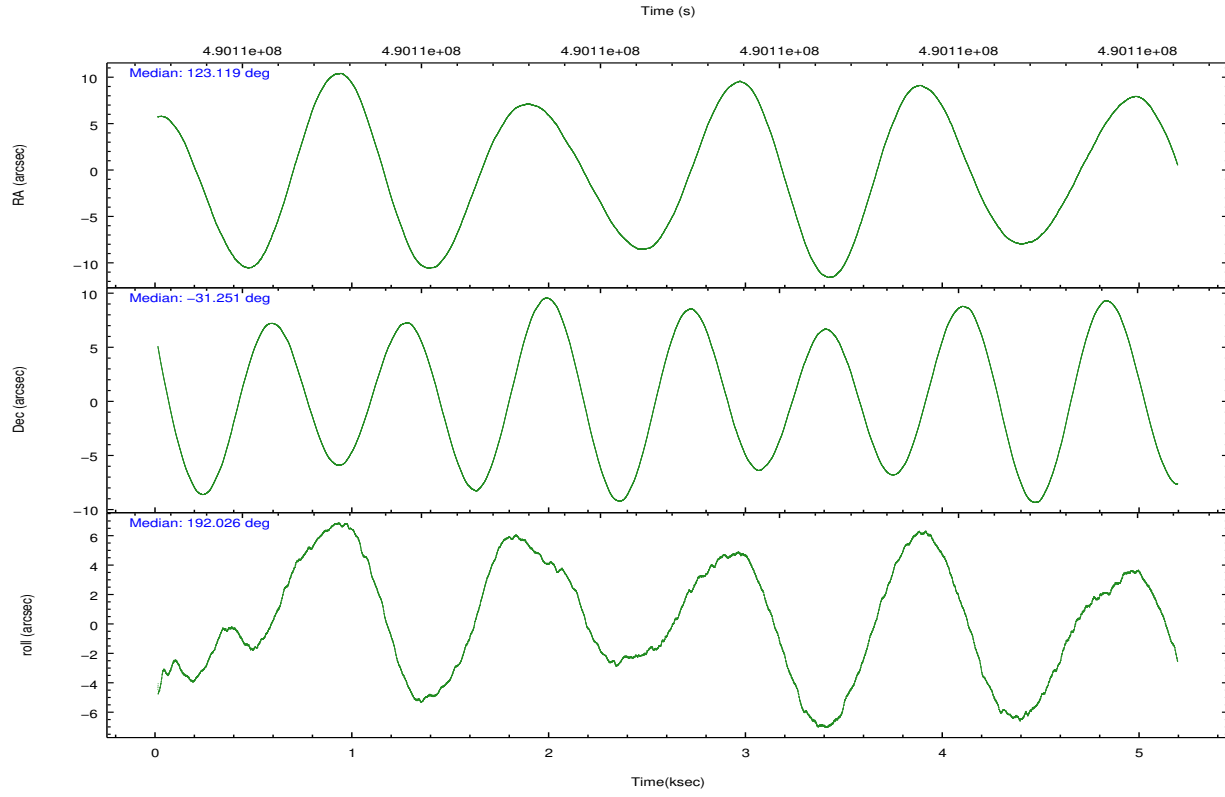
	<b>ccd 7</b>
grade 0 events	227
	5%
grade 1 events	2
	0%
grade 2 events	412
	9%
grade 3 events	304
	7%
grade 4 events	289
	6%
grade 5 events	422
	10%
grade 6 events	921
	21%
grade 7 events	1628
	38%

## 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	123.142215	123.1188174770366	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-31.232090	-31.25071641548749	Subarray start row	449	449
[deg] Pointing Roll	191.888092	192.0325807763792	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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	490106980.184000	490105456.23388			
Observation start date	2013-07-13T12:48:33	2013-07-13T12:24:16			
[s] Observation end time (MET)	490111980.184000	490112546.67176			
Observation end date	2013-07-13T14:11:53	2013-07-13T14:22:26			
Read mode	TIMED	TIMED			

## 2.3 Aspect





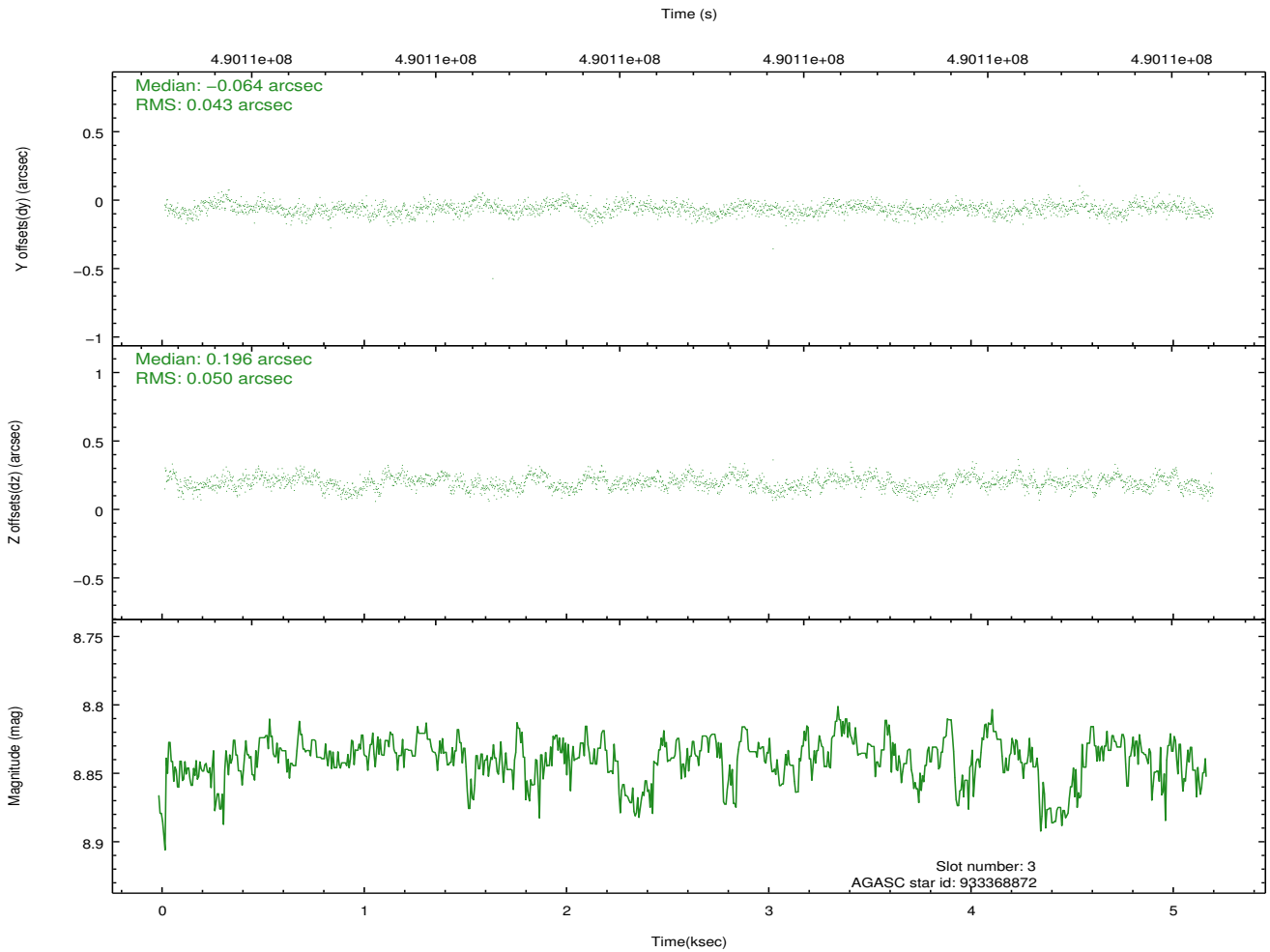
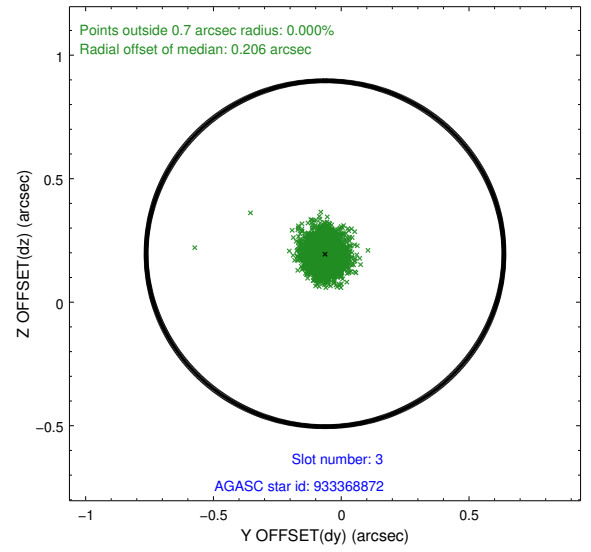
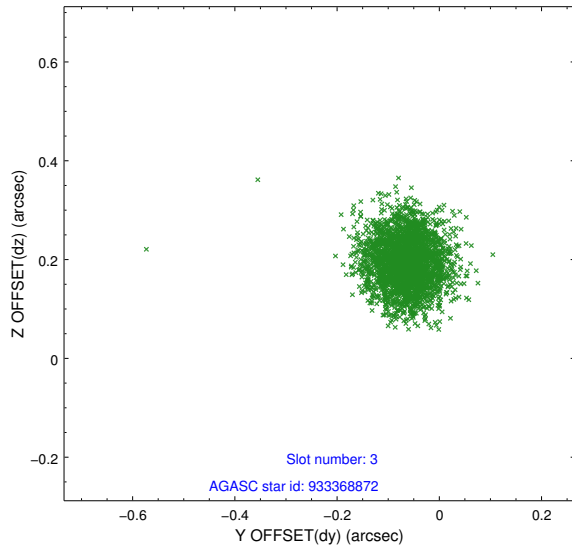
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.90	1264	-0.060	-0.012	0.007	0.011	0.000000	0.000000	-765.84	-1736.39
1	FID		ACIS-S-4	6.99	1264	0.202	0.033	0.006	0.010	0.000000	0.000000	2147.14	170.96
2	FID		ACIS-S-5	7.02	1264	-0.173	-0.012	0.007	0.011	0.000000	0.000000	-1817.32	165.87
3	GUIDE	used	933368872	8.84	2528	-0.064	0.196	0.070	0.110	123.682999	-31.038830	-1774.53	-333.01
4	GUIDE	used	933369624	9.67	2522	-0.124	-0.209	0.132	0.218	123.165629	-31.676488	258.28	1580.94
5	GUIDE	used	933372544	9.37	2520	0.118	0.208	0.125	0.199	123.206970	-30.824126	-497.79	-1394.91
6	GUIDE	used	933519904	8.93	2528	-0.044	-0.068	0.088	0.142	123.942450	-31.656061	-2083.64	2006.86
7	GUIDE	used	933365648	9.19	2526	0.117	-0.130	0.108	0.180	123.432950	-31.549238	-637.98	1302.95

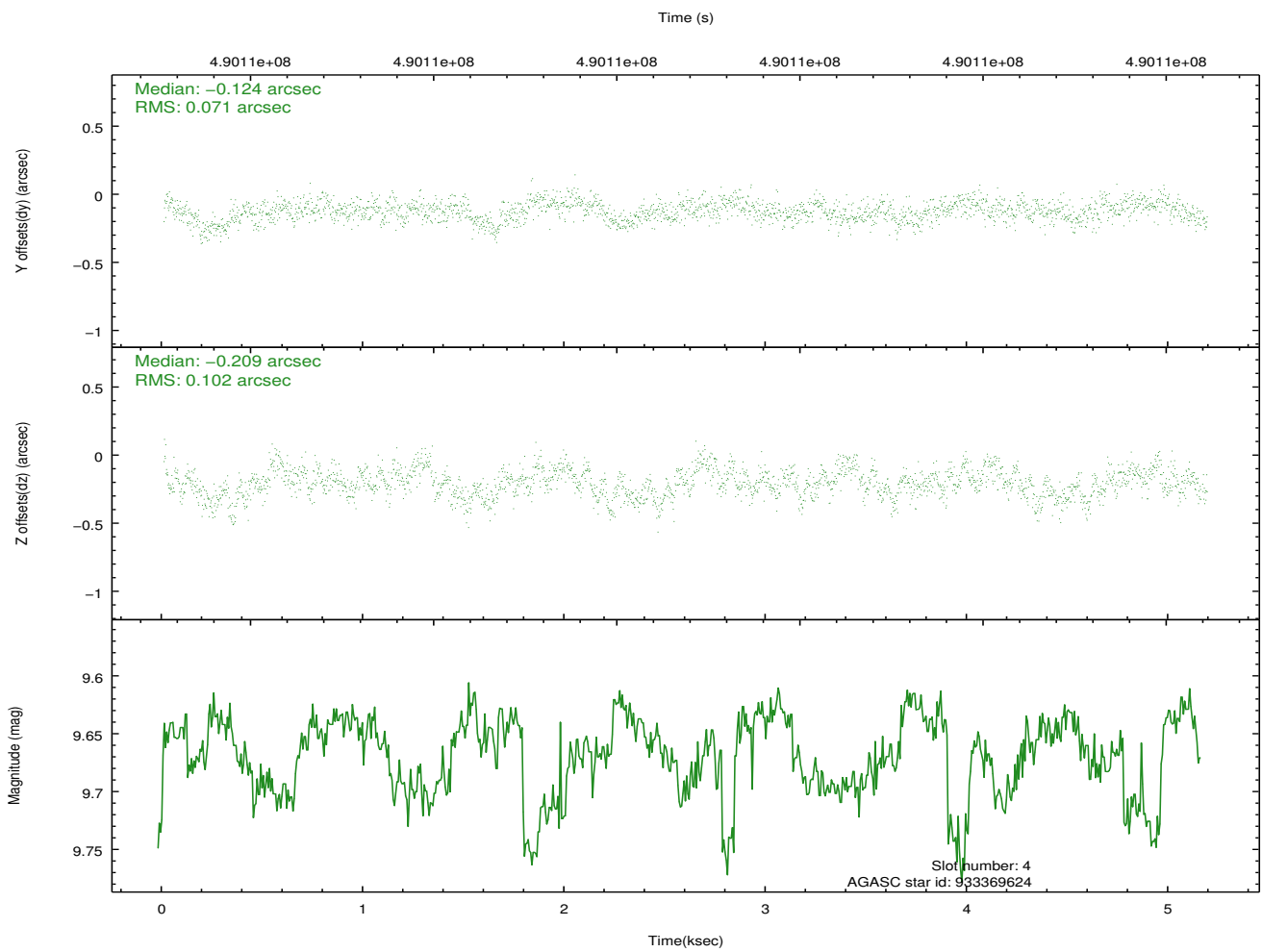
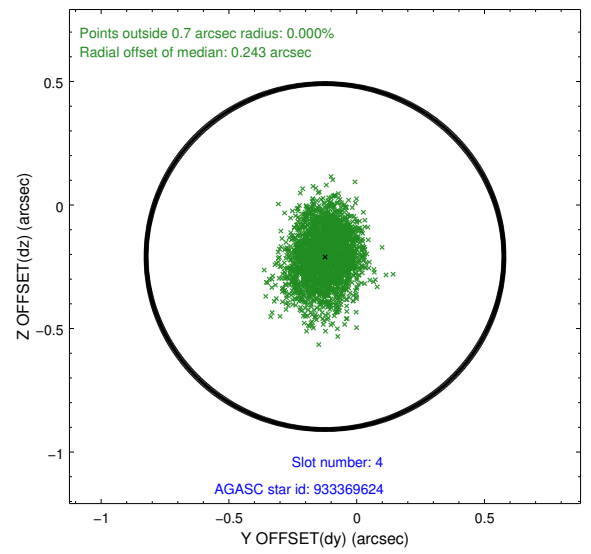
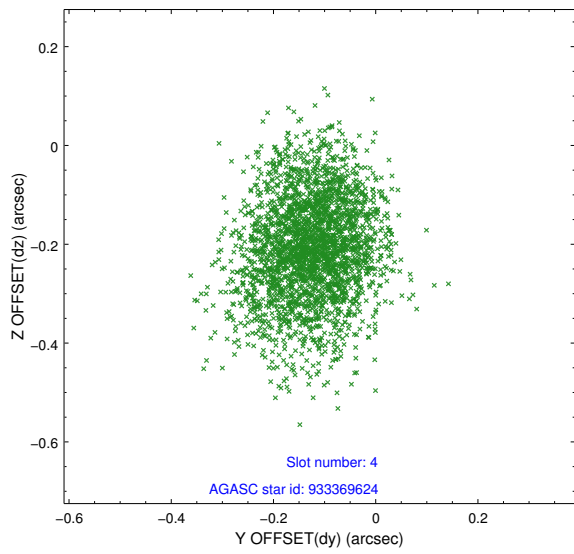
∞

## 2.4 Star Slots

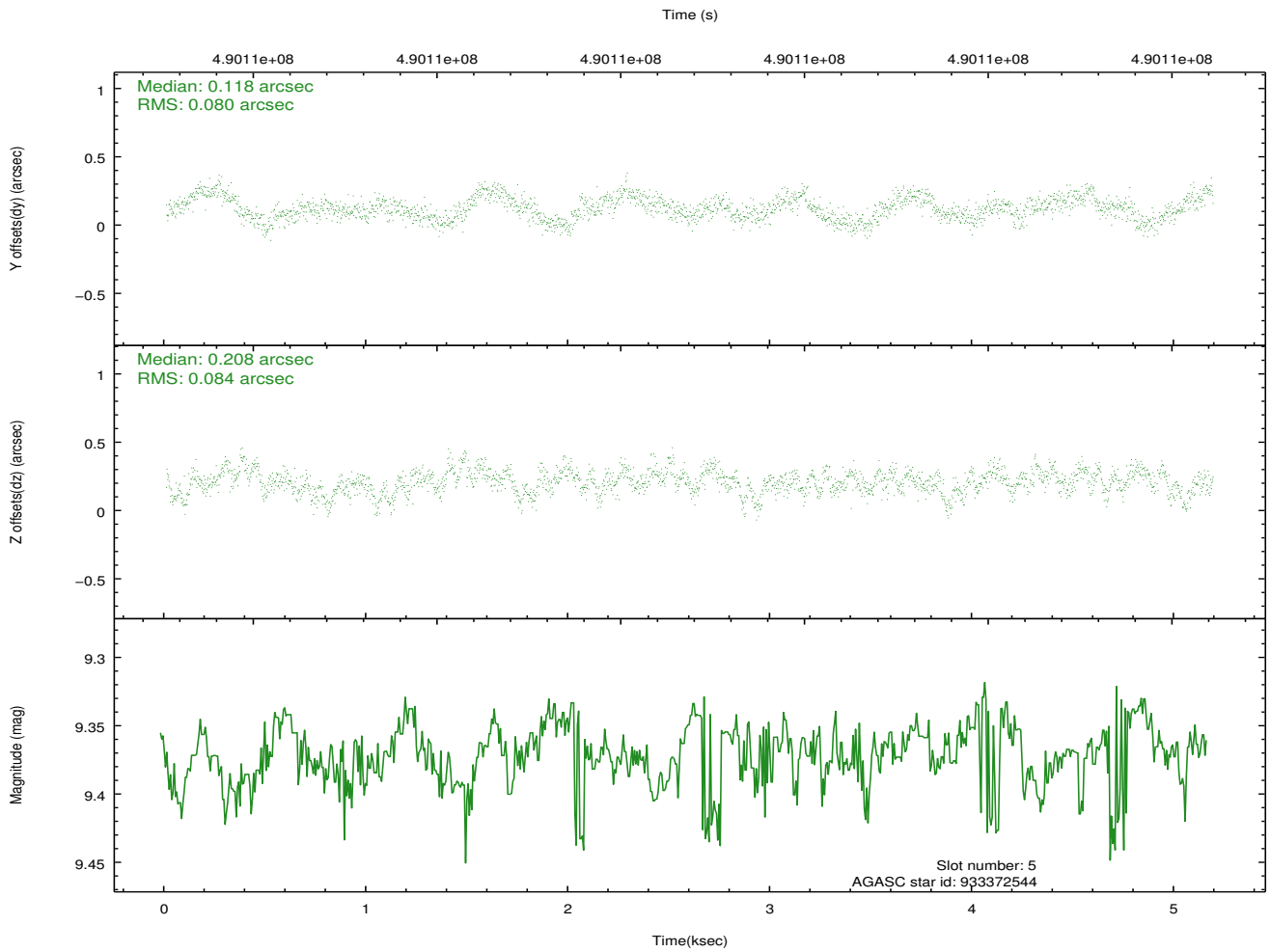
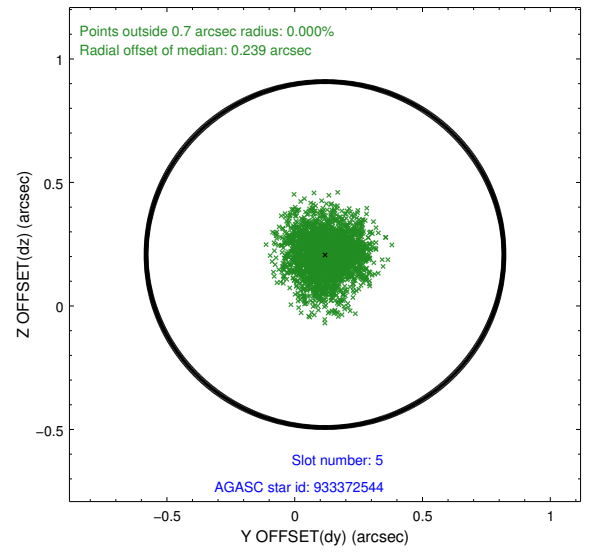
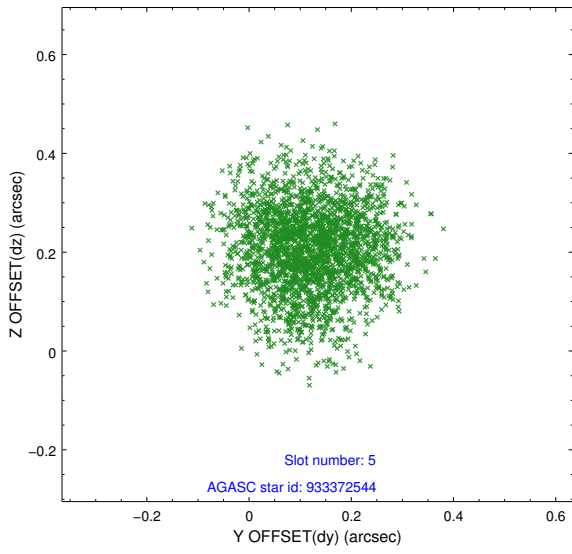
### 2.4.1 Slot 3



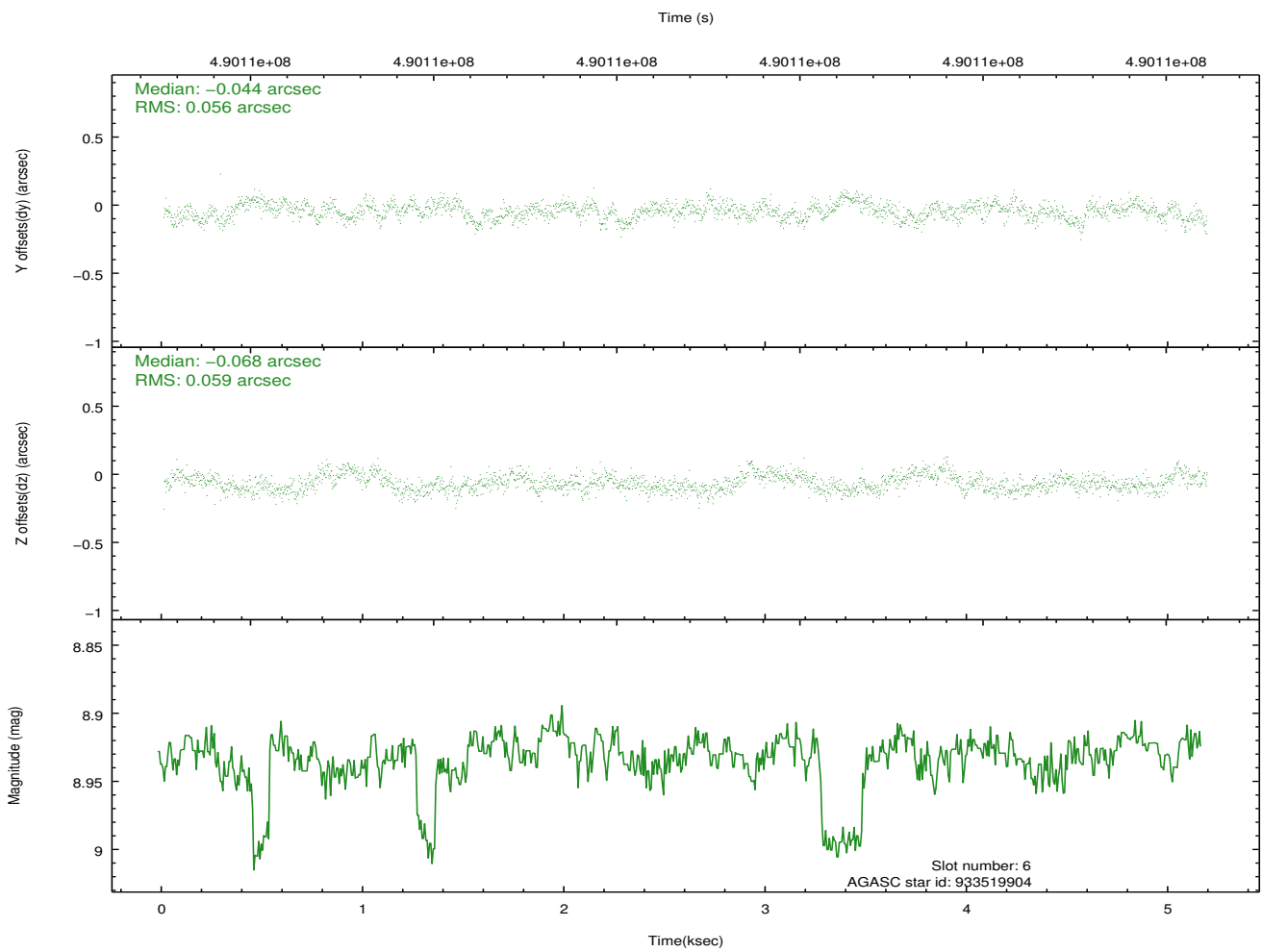
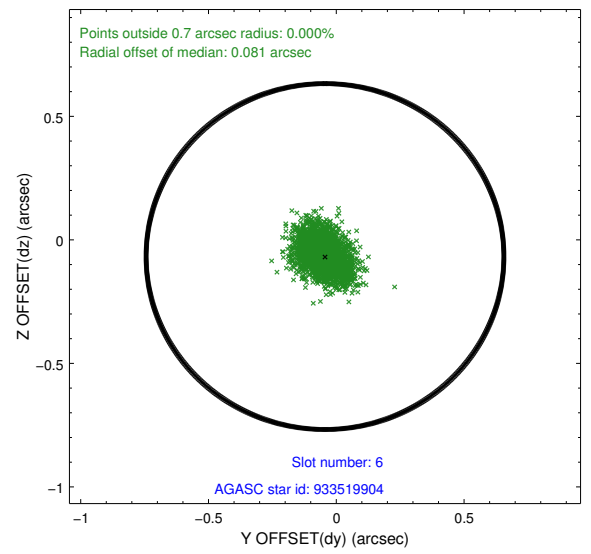
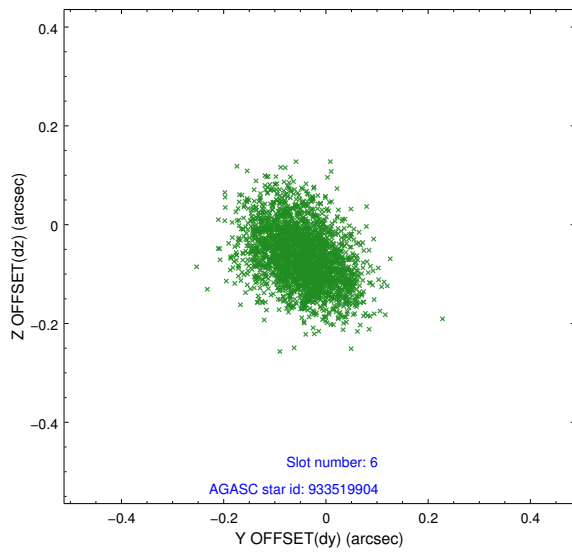
## 2.4.2 Slot 4



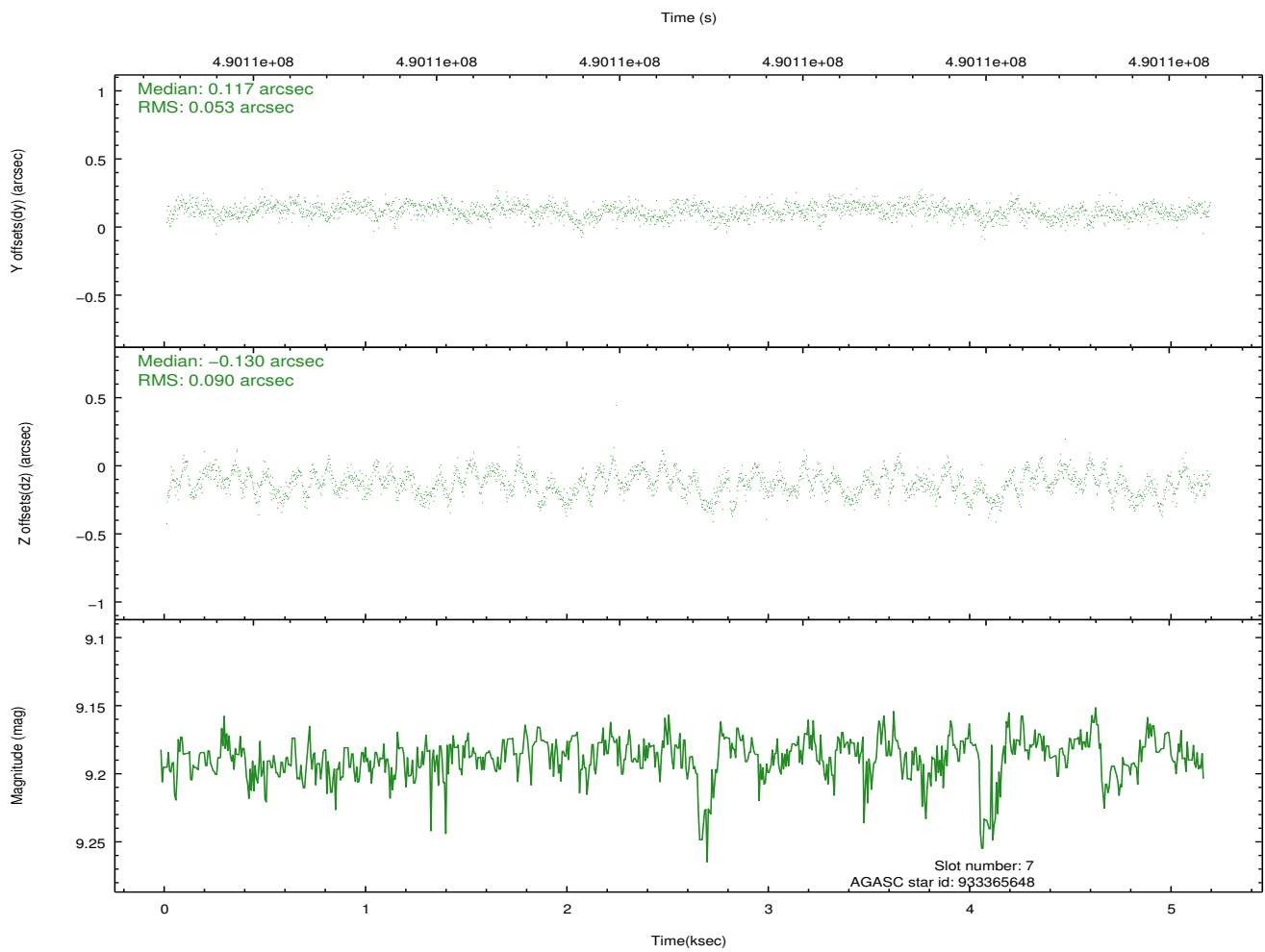
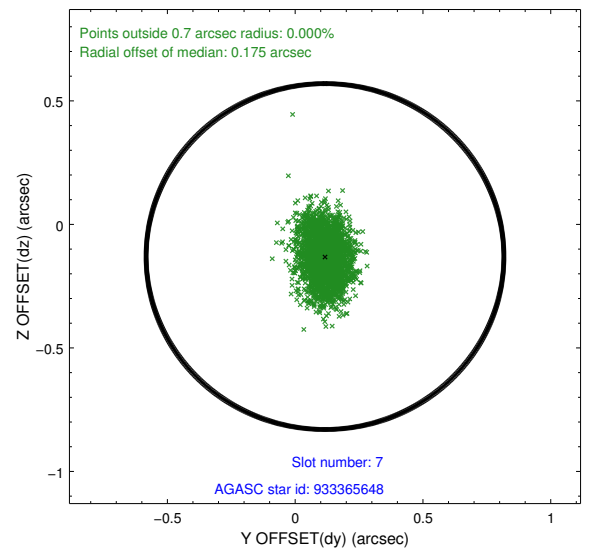
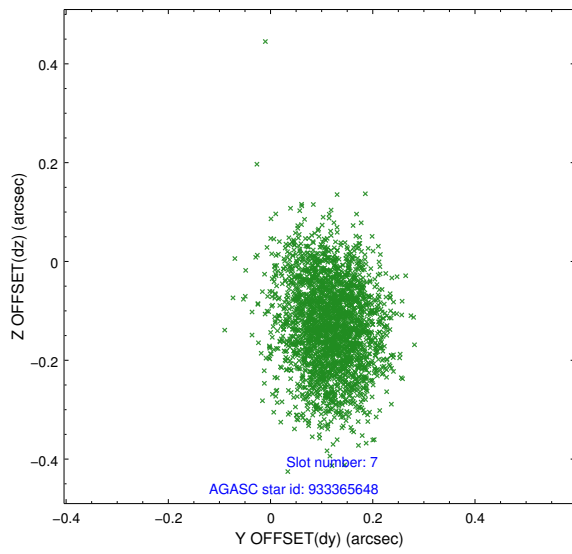
### 2.4.3 Slot 5



## 2.4.4 Slot 6

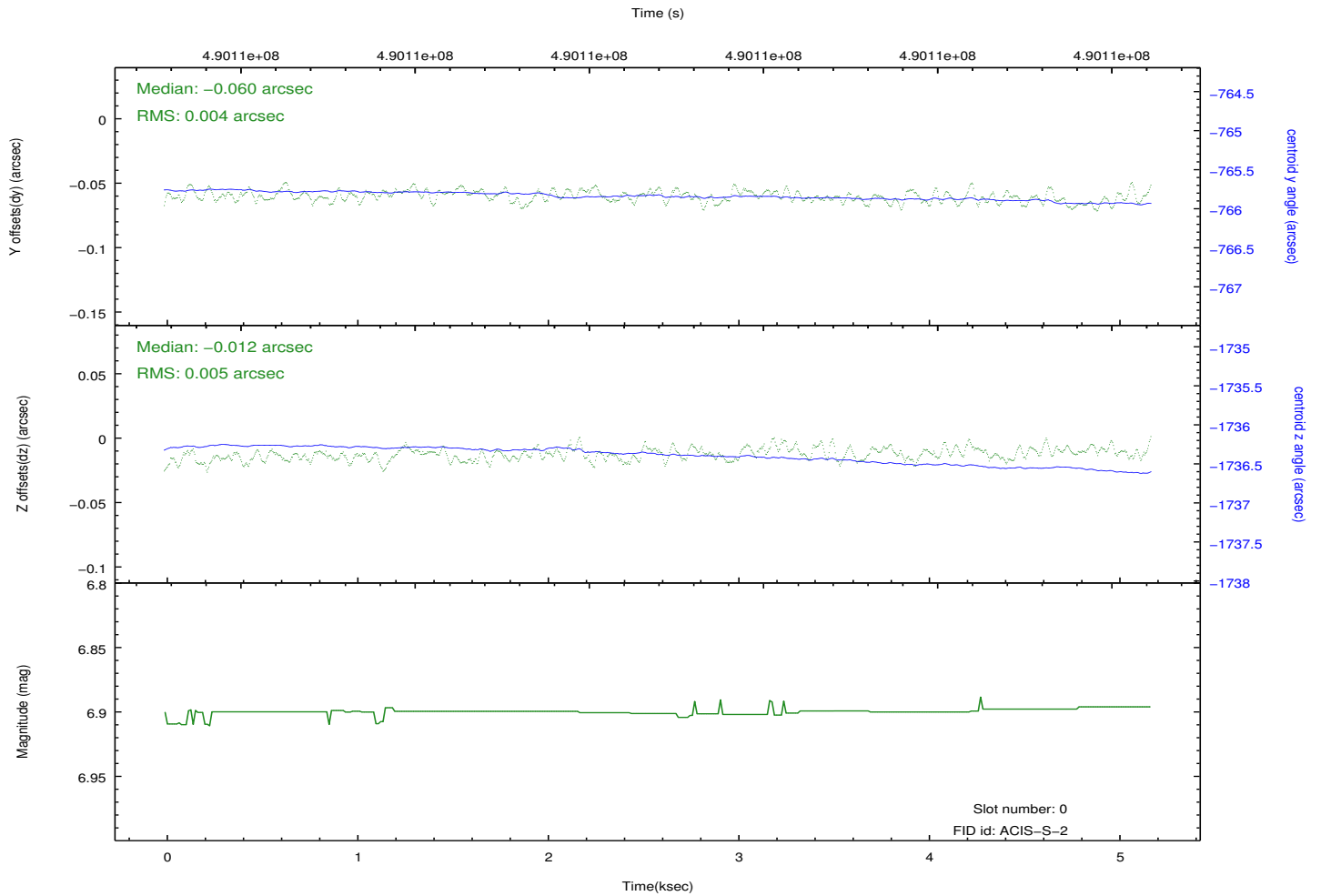
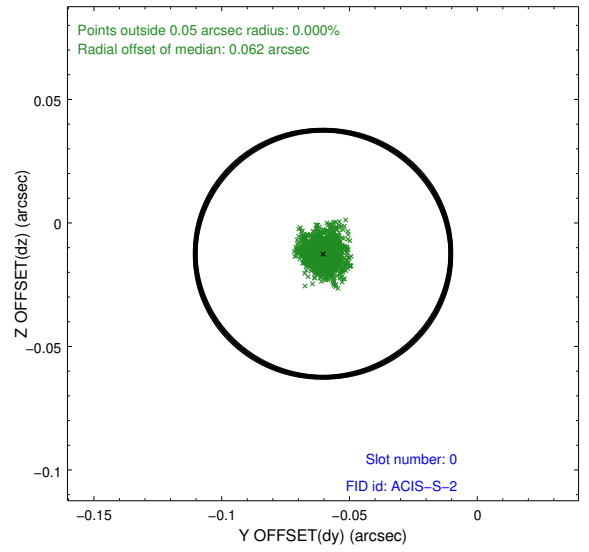
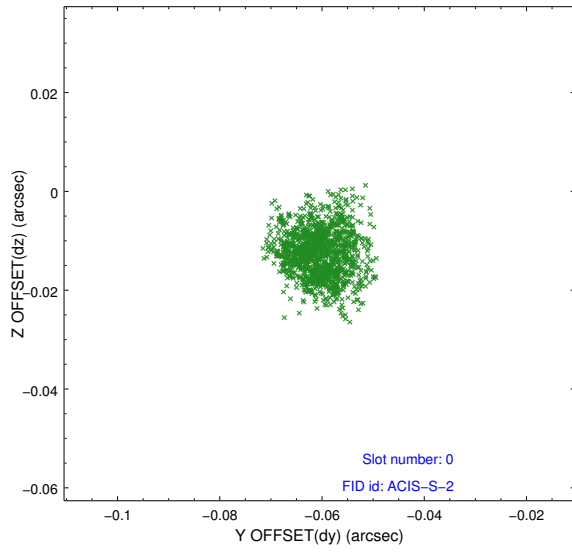


## 2.4.5 Slot 7

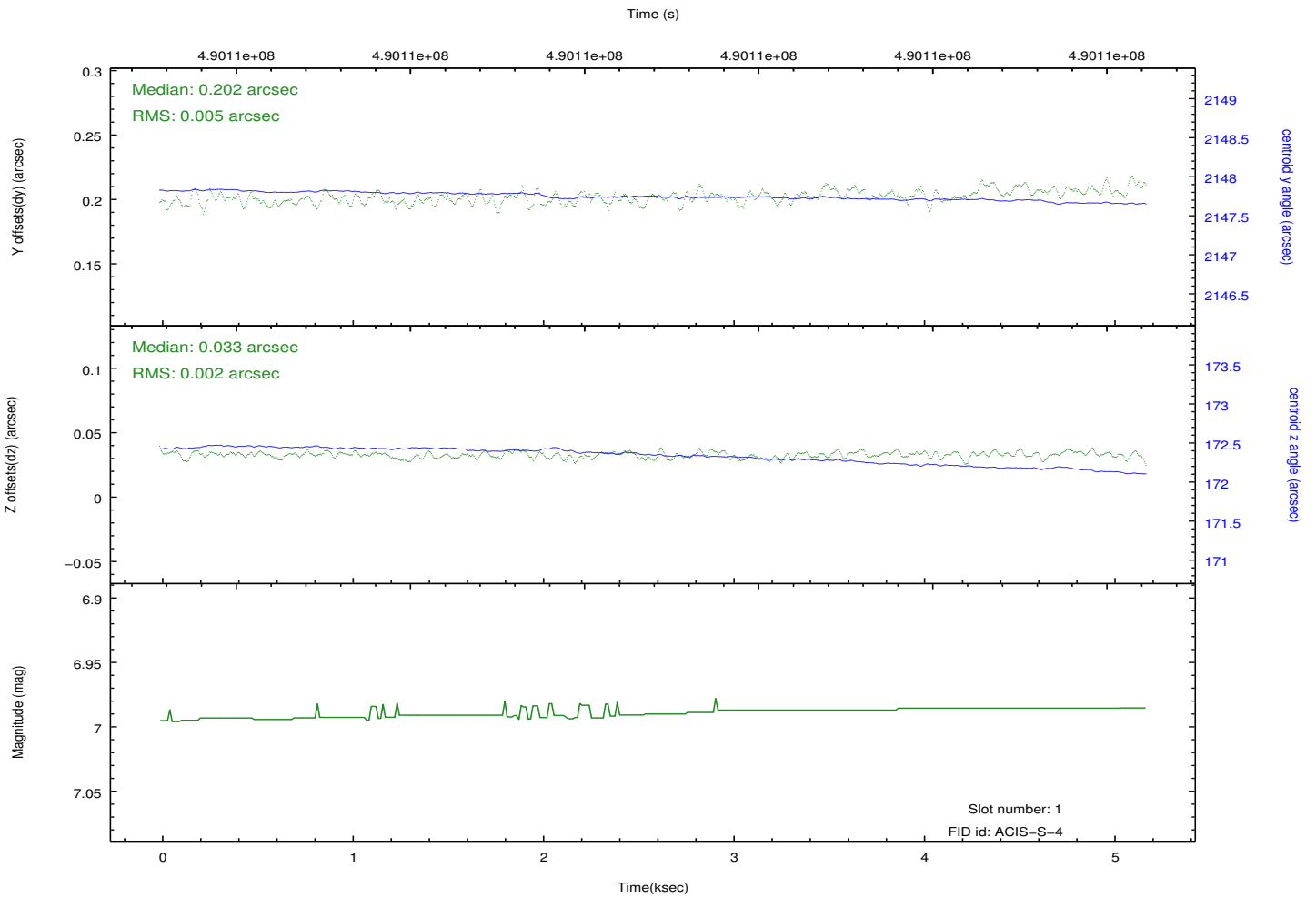
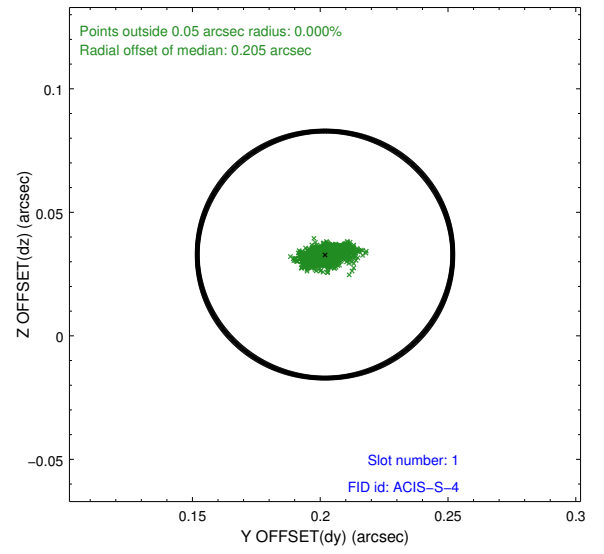
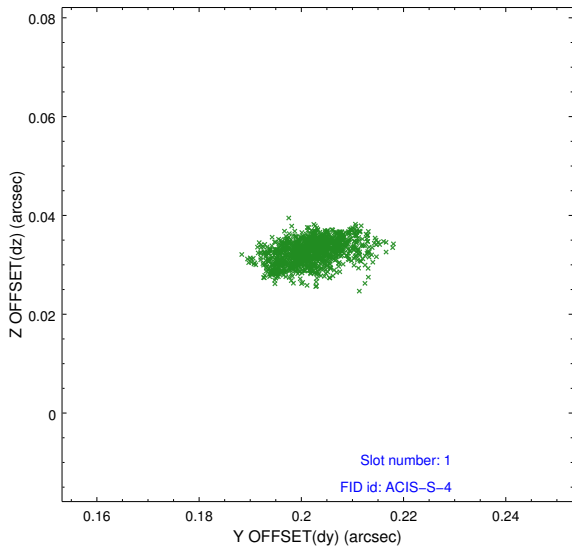


## 2.5 FID Slots

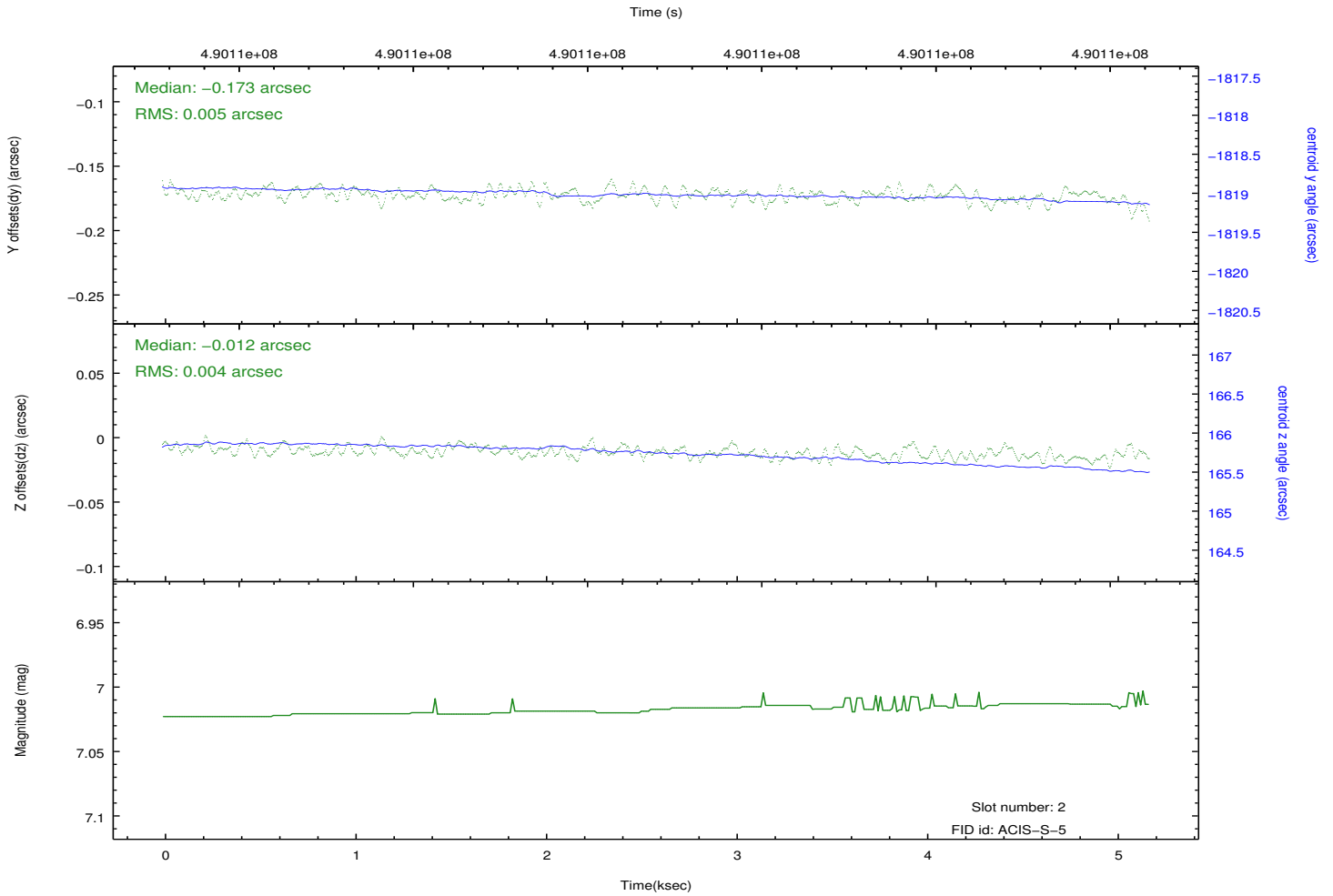
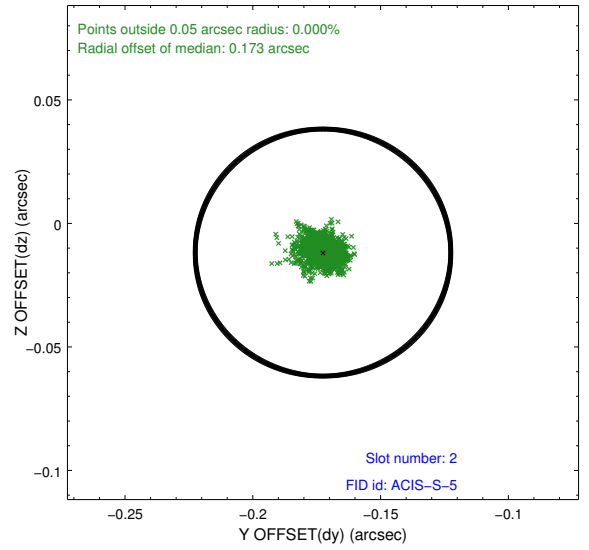
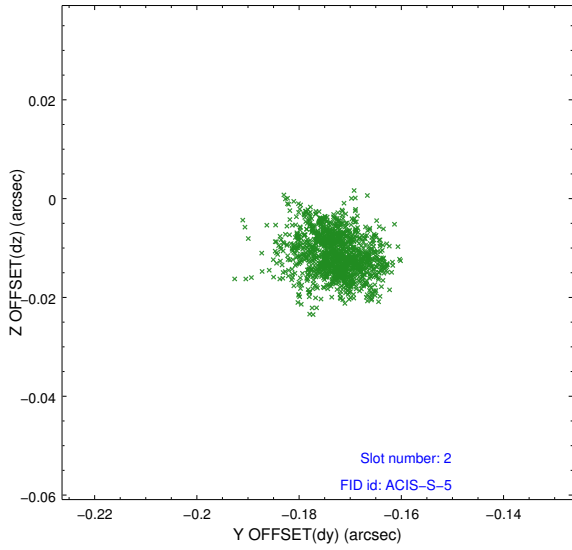
### 2.5.1 Slot 0



## 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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0695679647326

## 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.