

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 5644 - L2 Version 3
Chandra X-Ray Center

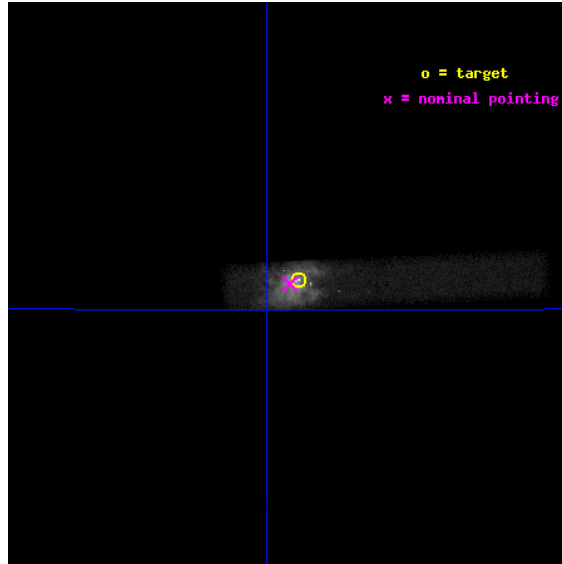
L2 Processing Date : Dec 28 2012

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1 Front

seq_num	701067	Sequence number
obs_id	5644	Observation id
title	Chandra and RXTE Observations of the Ultraluminous QPO Source in M82	
observer	Dr. Tod Strohmayer	Principal investigator
object	CXO M82 J095550.2+694047	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.959167	Observer's specified target RA [deg]
dec_targ	69.679722	Observer's specified target Dec [deg]
ra_nom	148.97052219453	Nominal RA [deg]
dec_nom	69.677847049977	Nominal Dec [deg]
roll_nom	357.24597997437	Nominal Roll [deg]
revision	3	Processing version of data
ontime	75131.201119512	Sum of GTIs [s]
livetime	68140.033665439	Livetime [s]
ontime7	75131.201119512	Sum of GTIs [s]
l2events	283023	Number of level 2 events

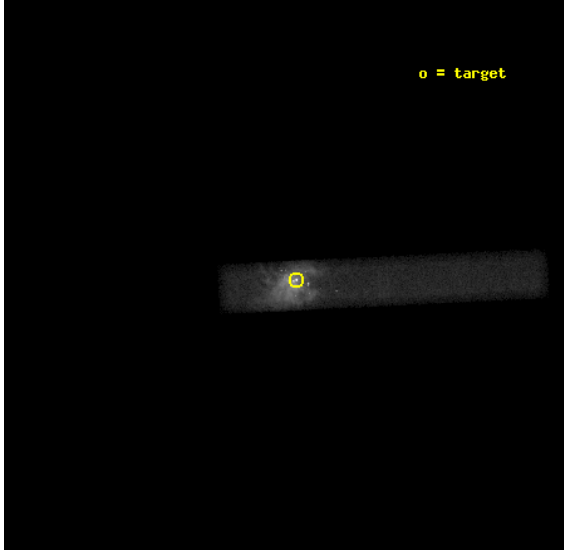


2 OBI

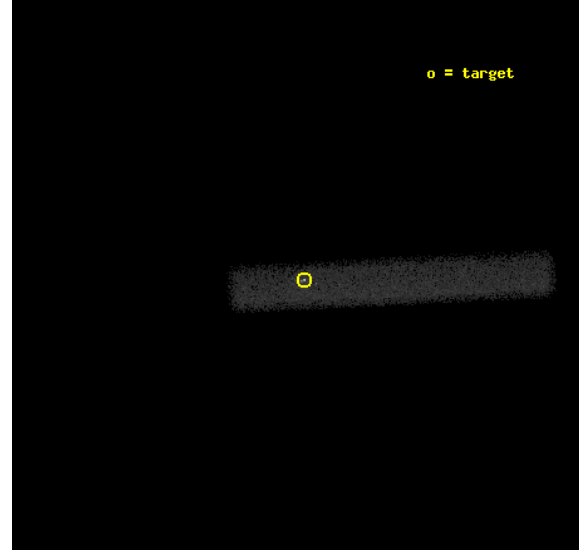
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	75000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	75131.201119512	Sum of GTIs [s]
caldbver	4.5.5	 	ontime7	75131.201119512	Sum of GTIs [s]
date	2012-12-28T01:00:15	Date and time of file creation	l1events	357549	Number of level 1 events
revision	3	Processing version of data			

2.1.3 Events

	ccd 7
level 1 events	357549
rejected events	70537
rejected %	19%

	ccd 7
grade 0 events	59733
	16%
grade 1 events	590
	0%
grade 2 events	76261
	21%
grade 3 events	31640
	8%
grade 4 events	30833
	8%
grade 5 events	11209
	3%
grade 6 events	90077
	25%
grade 7 events	57206
	15%

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	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	148.901326	148.9705221945332	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	69.665040	69.67784704997723	Subarray start row	449	449
[deg] Pointing Roll	357.154243	357.2459799743684	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)	240629114.184000	240627254.64555			
Observation start date	2005-08-17T01:24:10	2005-08-17T00:54:14			
[s] Observation end time (MET)	240704114.184000	240705777.33665			
Observation end date	2005-08-17T22:14:10	2005-08-17T22:42:57			
Read mode	TIMED	TIMED			

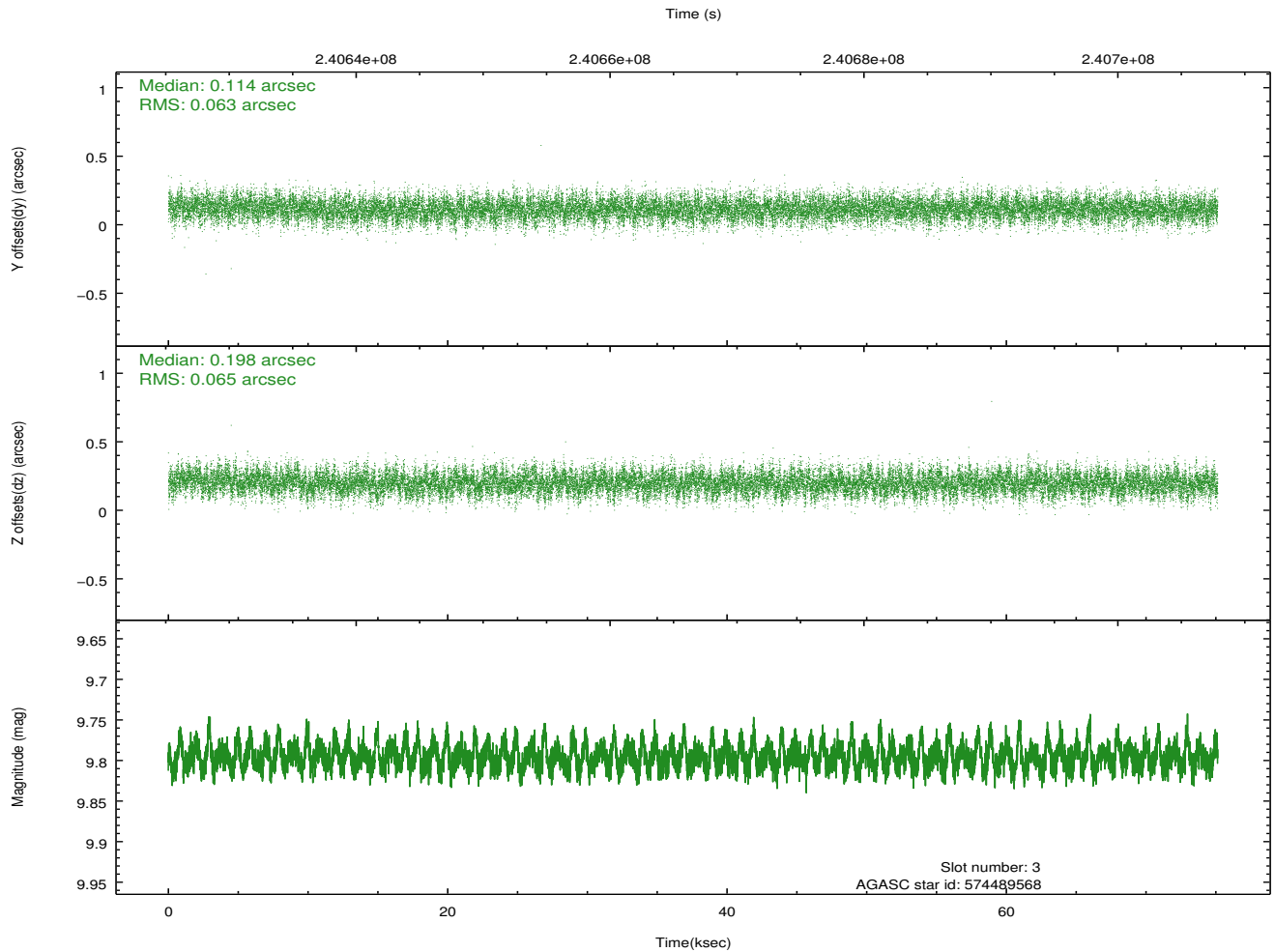
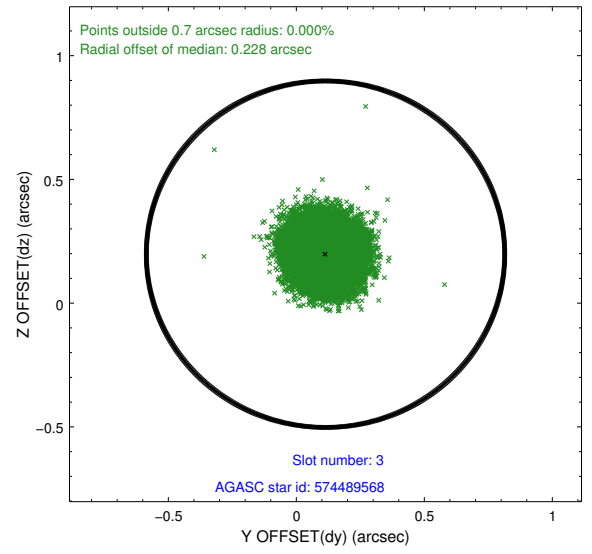
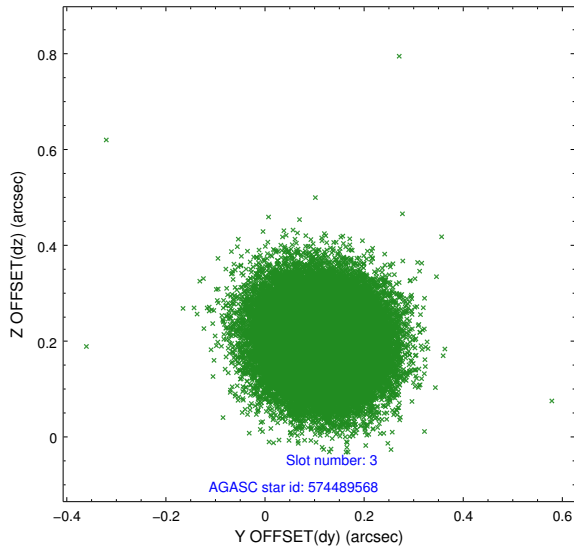
2.3 Aspect

Slot Statistics

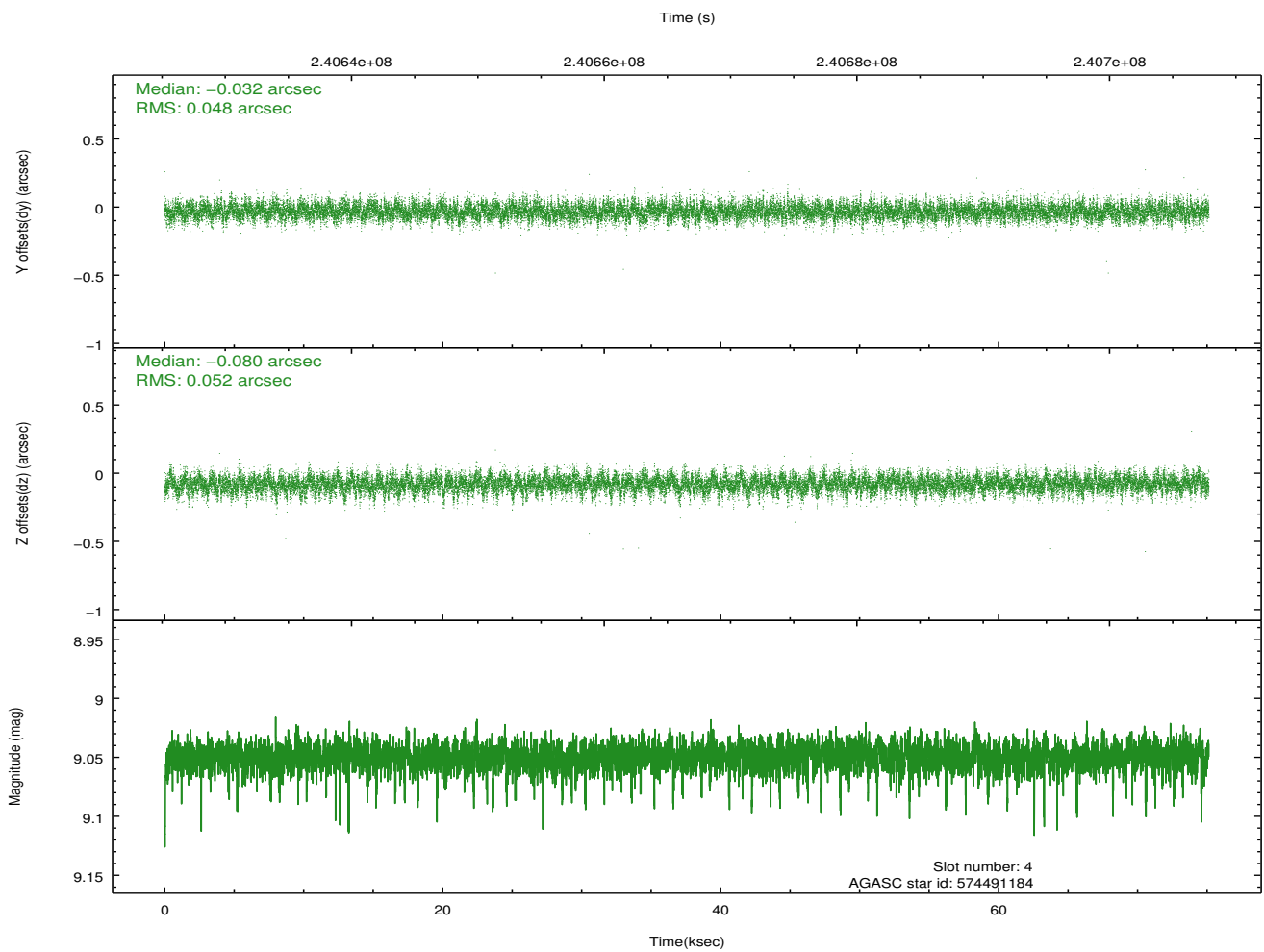
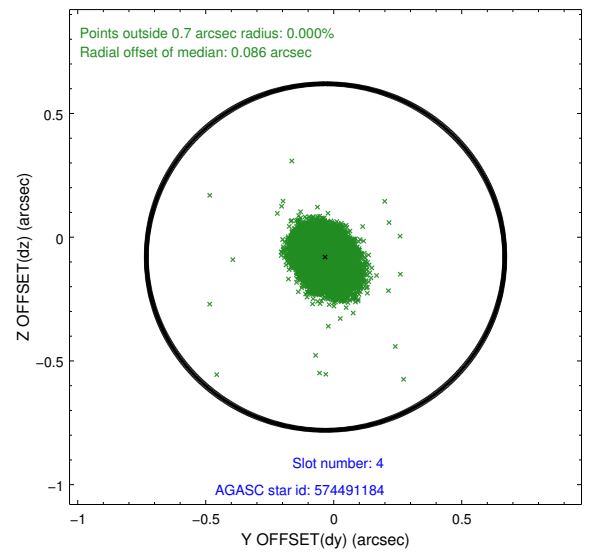
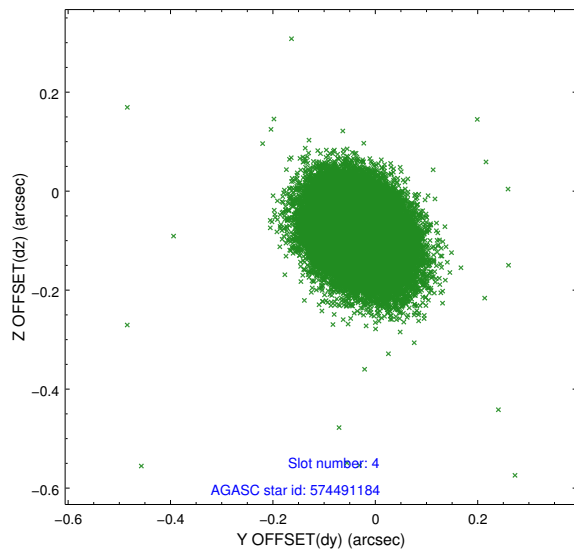
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	18325	0.019	-0.067	0.009	0.017	0.000000	0.000000	936.41	-1729.03
1	FID	ACIS-S-2	7.10	18325	-0.065	0.006	0.008	0.015	0.000000	0.000000	-759.62	-1733.39
2	FID	ACIS-S-4	7.20	18324	0.021	0.067	0.009	0.017	0.000000	0.000000	2153.74	175.29
3	GUIDE	574489568	9.80	36619	0.114	0.198	0.097	0.156	147.223974	69.438157	-2078.30	-891.96
4	GUIDE	574491184	9.05	36523	-0.032	-0.080	0.074	0.122	148.582453	69.768699	-414.86	354.01
5	GUIDE	574491280	9.35	36615	0.014	0.087	0.124	0.191	148.611567	69.450135	-327.59	-790.43
6	GUIDE	574491872	9.24	36632	0.054	-0.077	0.094	0.151	147.207613	69.765453	-2125.16	283.48
7	GUIDE	574886464	9.79	36619	-0.141	-0.128	0.152	0.242	149.898674	70.203982	1117.54	2008.26

2.4 Star Slots

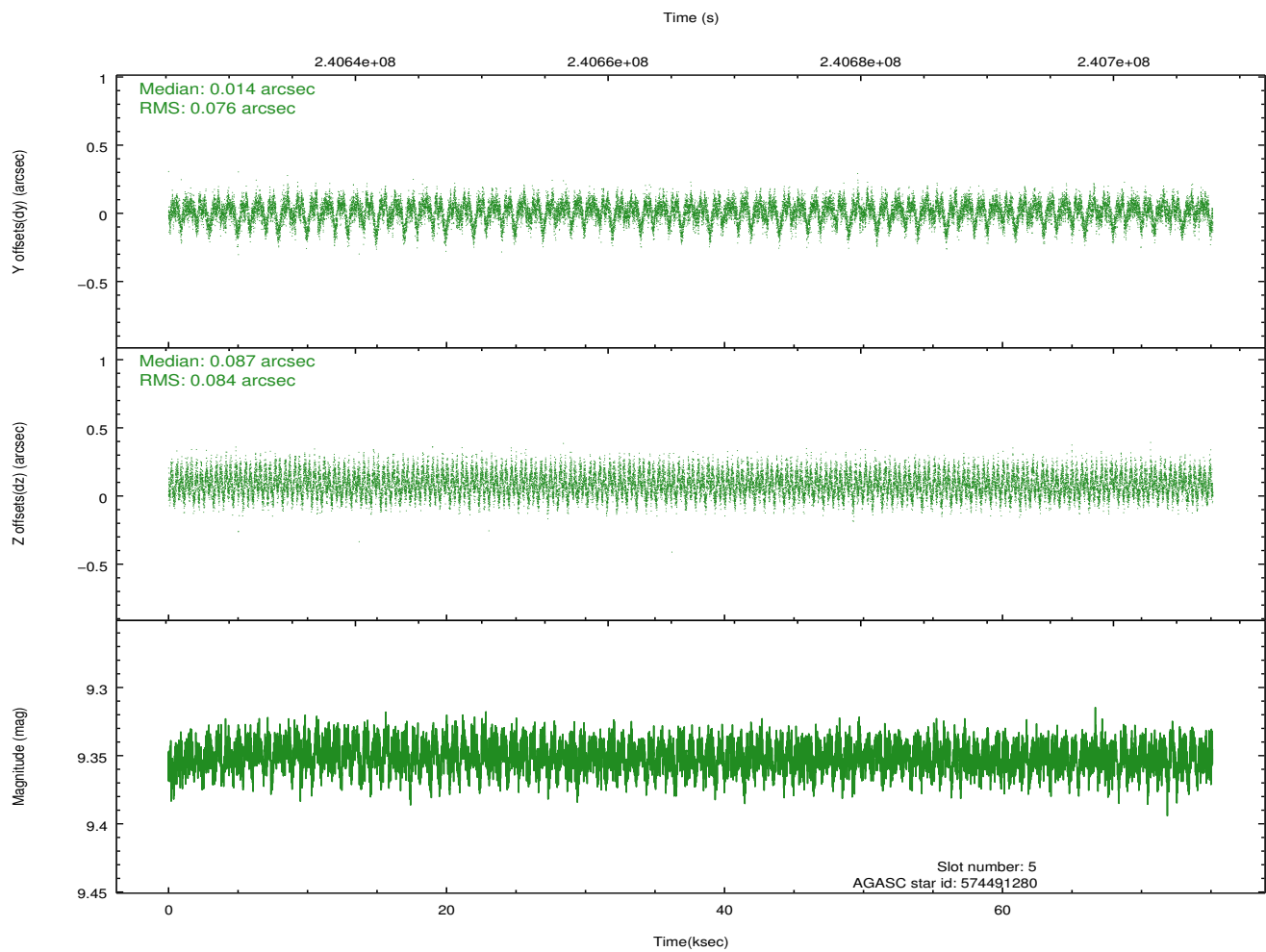
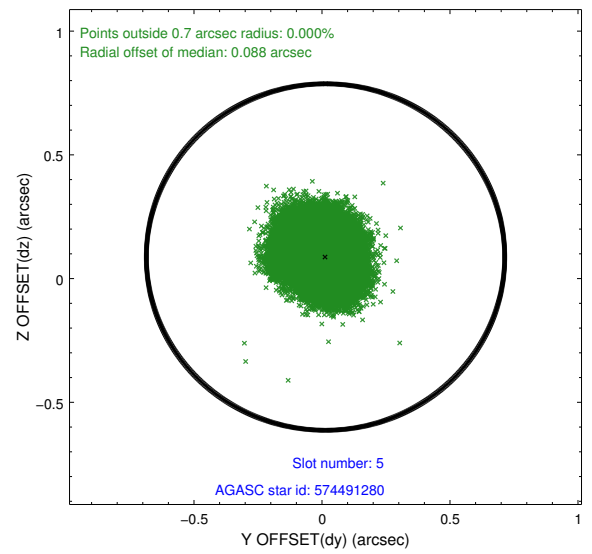
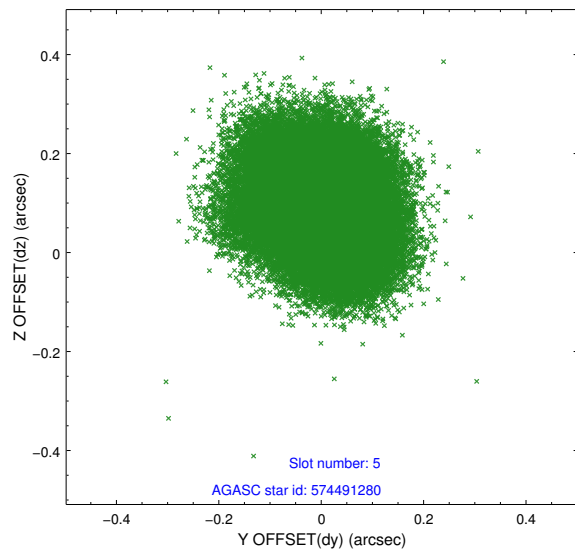
2.4.1 Slot 3



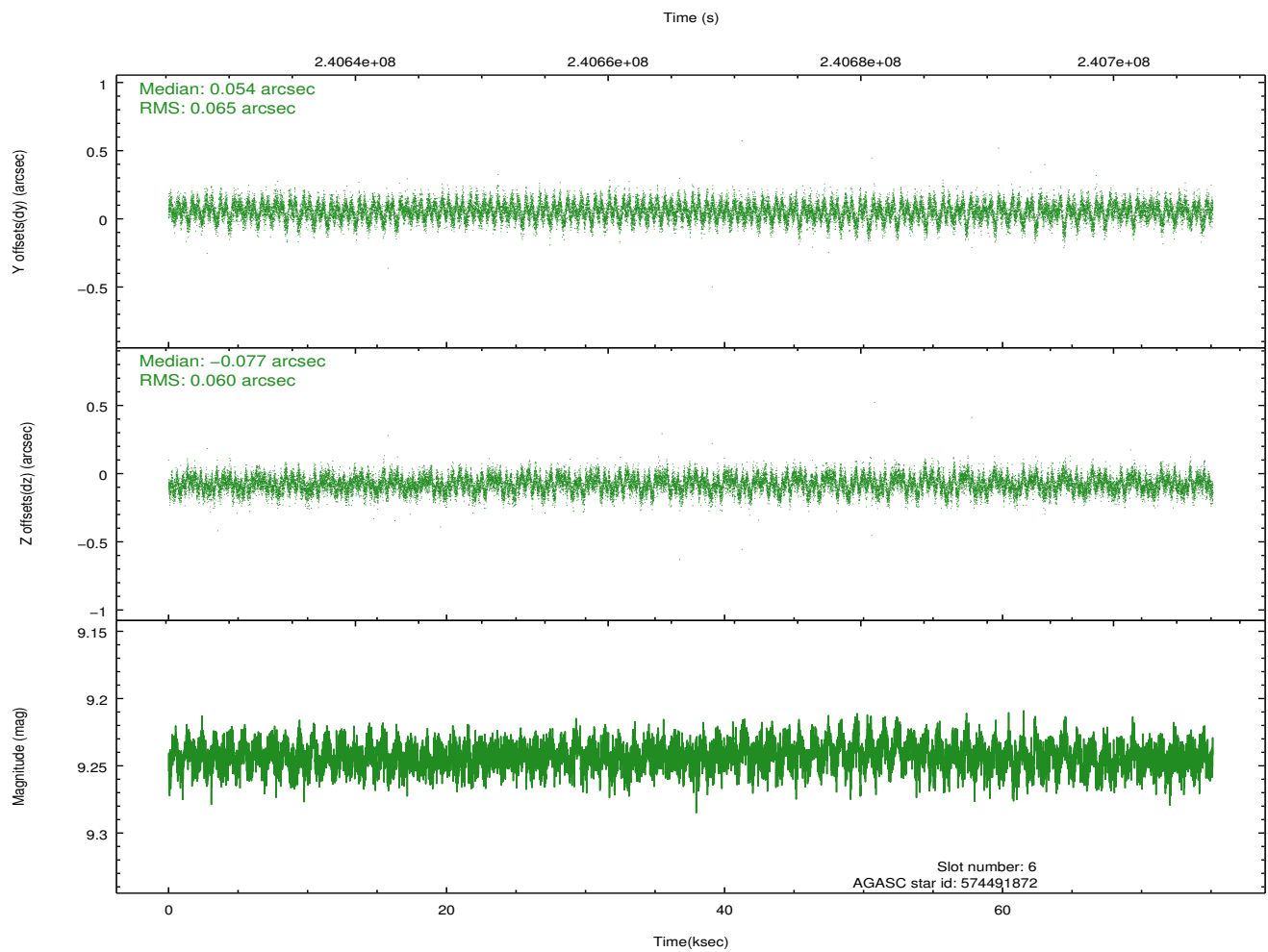
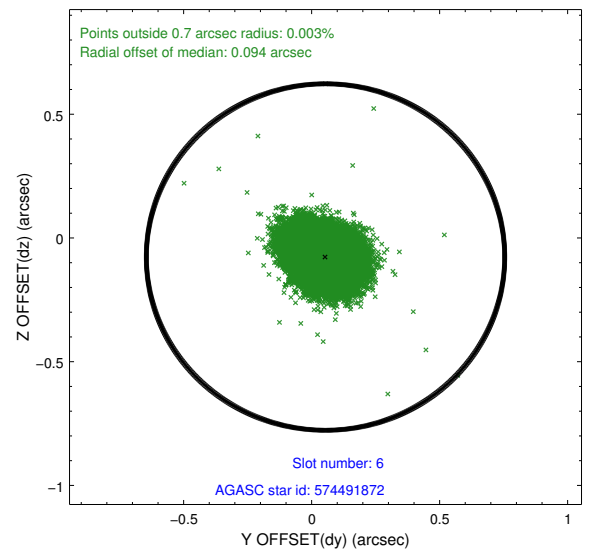
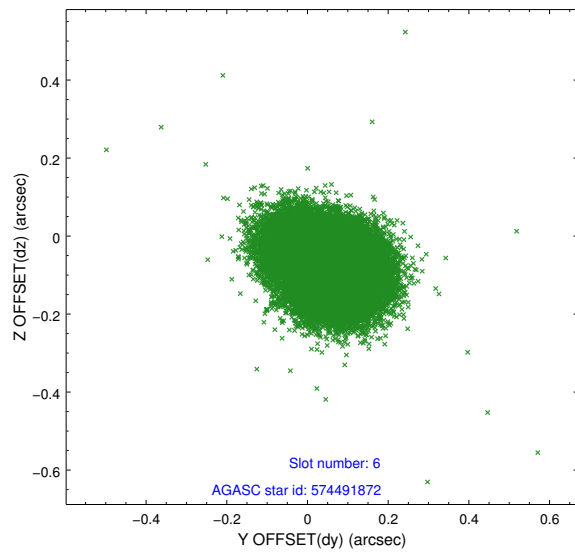
2.4.2 Slot 4



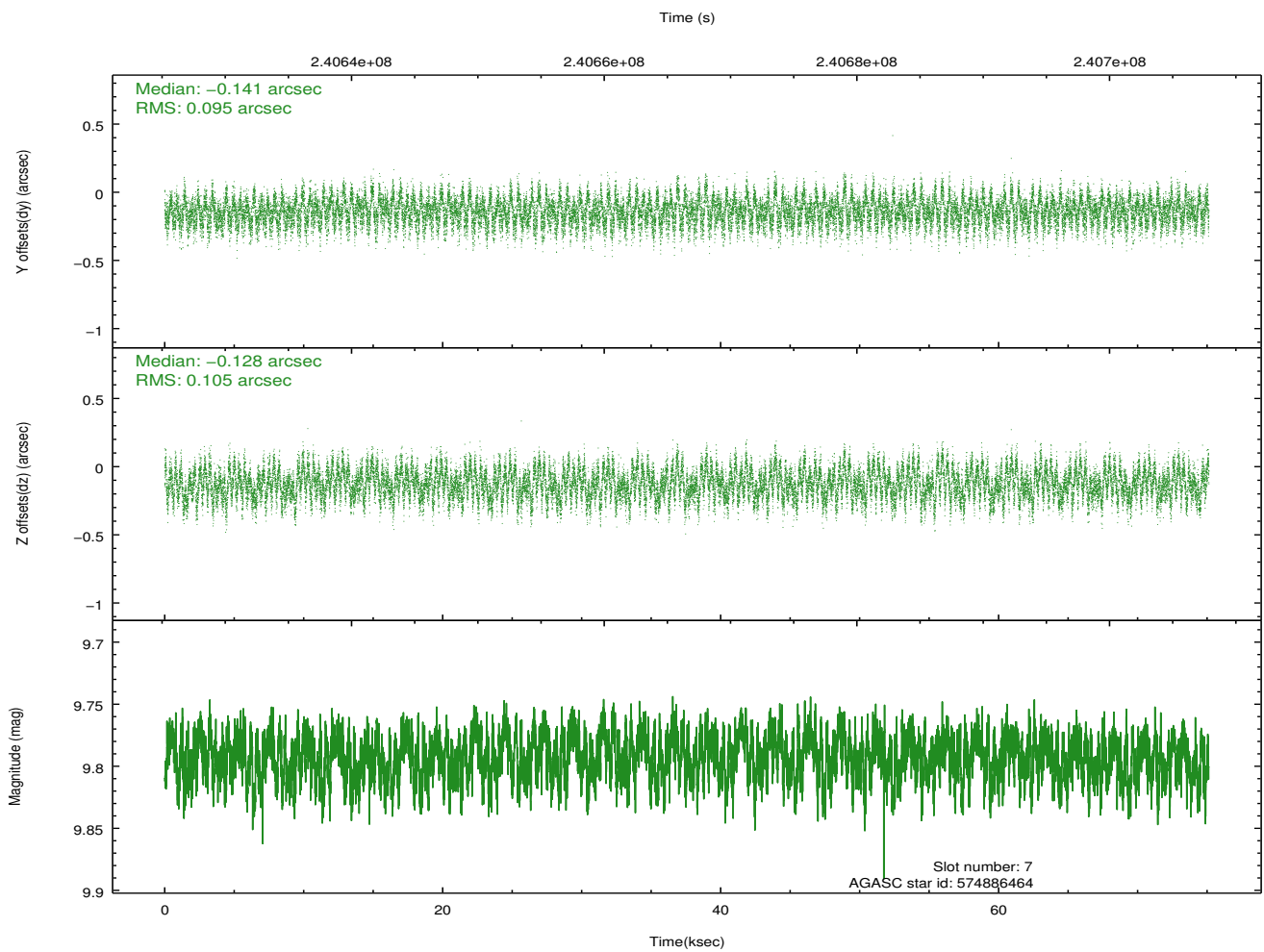
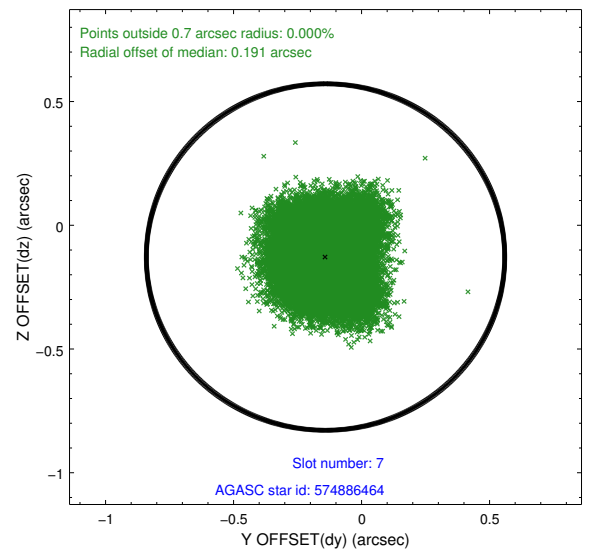
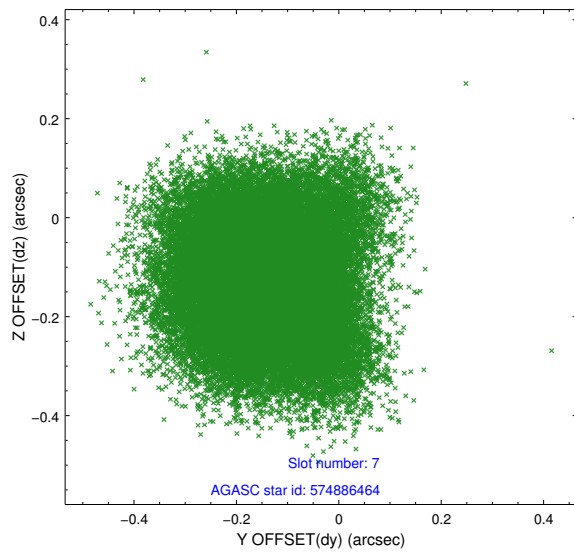
2.4.3 Slot 5



2.4.4 Slot 6

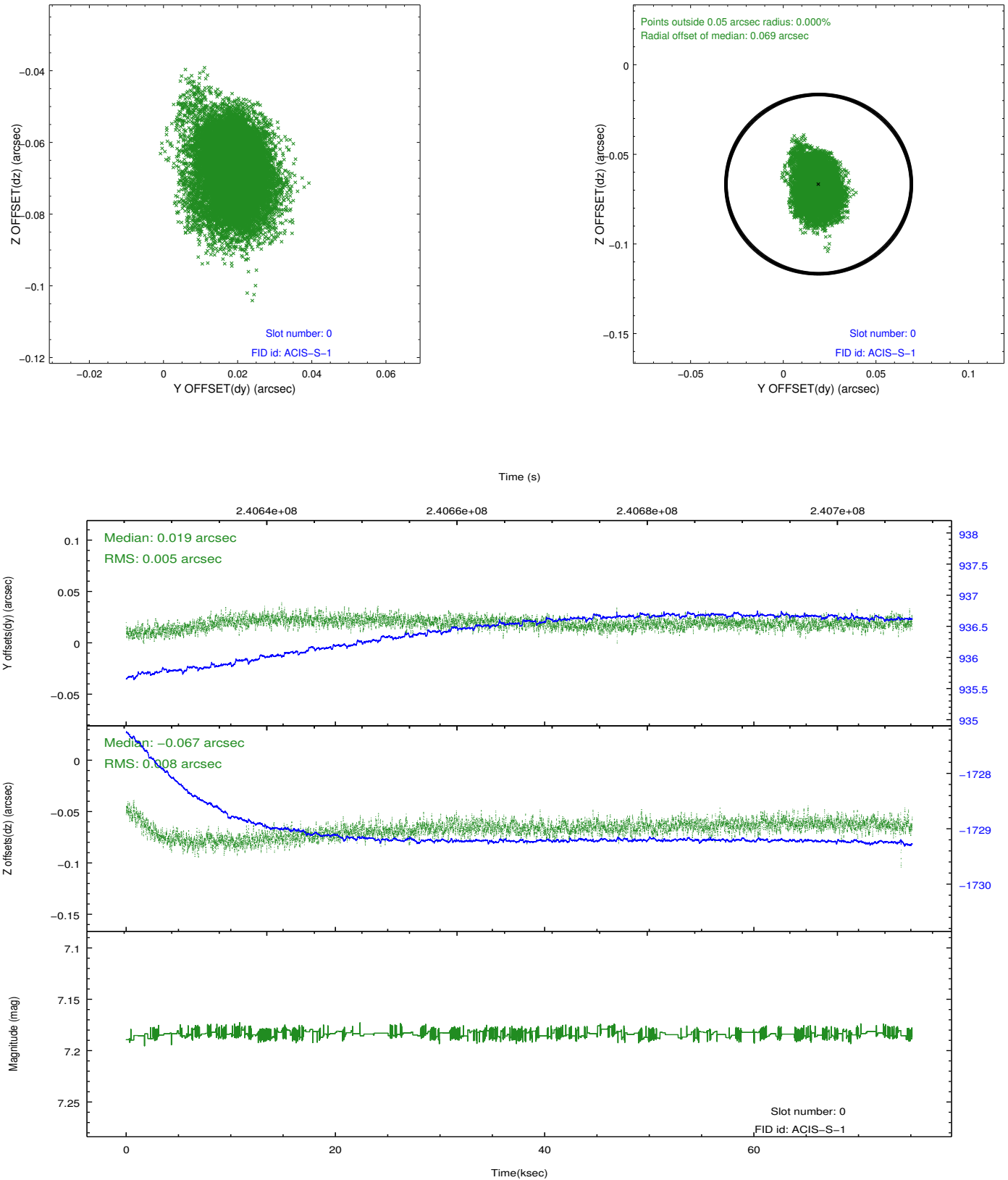


2.4.5 Slot 7

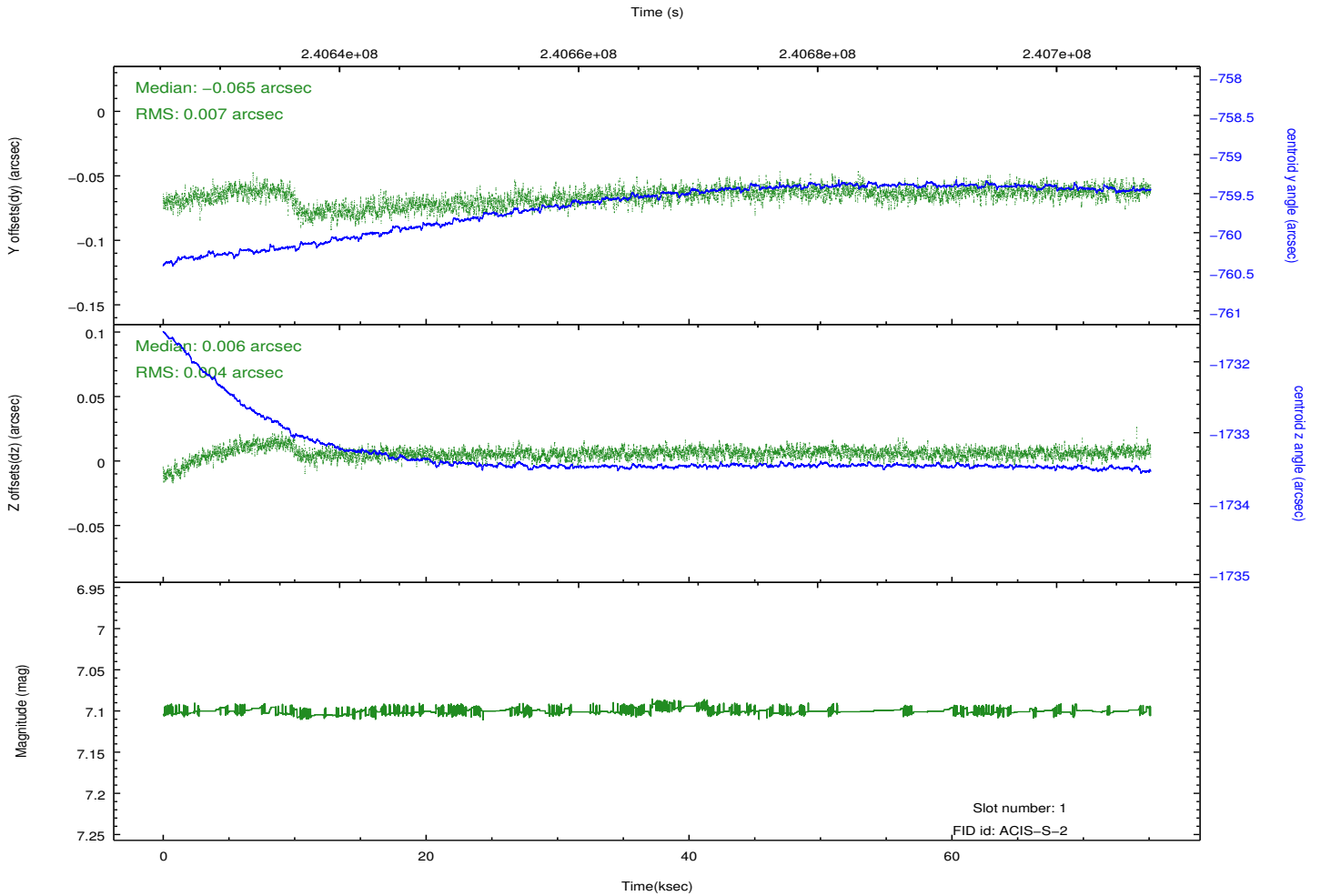
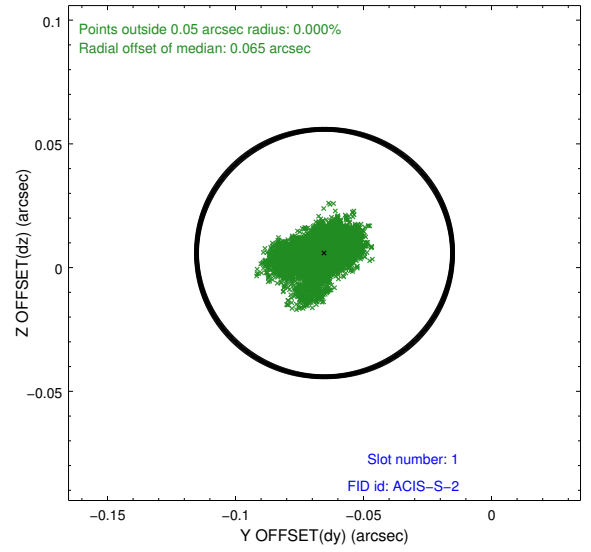
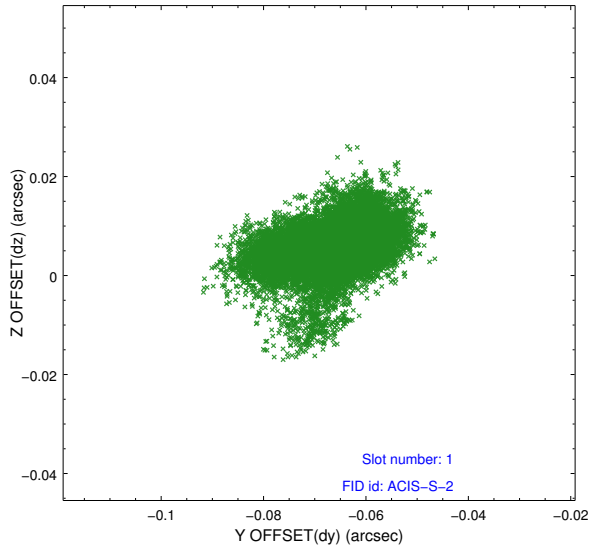


2.5 FID Slots

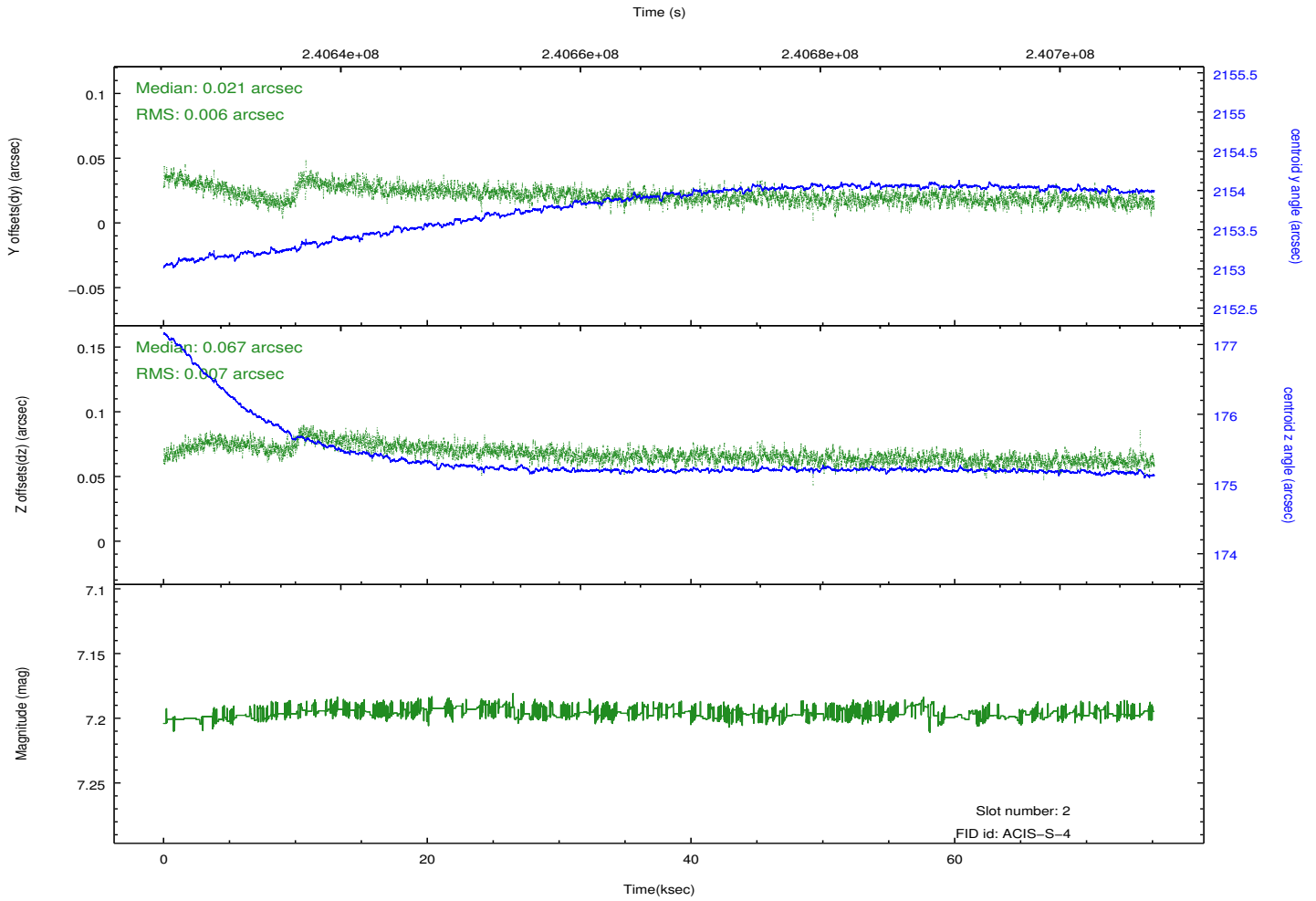
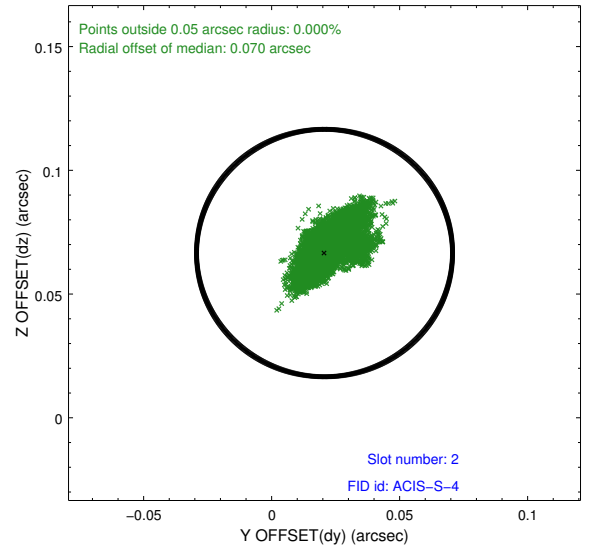
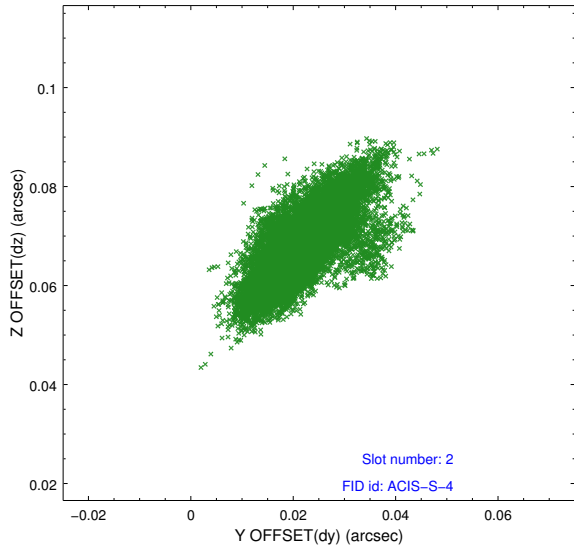
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.01.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	75.1312

A.2 Comments

There are several possible background enhancements due to radiation during the first 20 ksec of the observation. The only one that causes a noticeable enhancement to the count rate occurs at about 2 ksec into the observation.

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Joint Proposal: RXTE