

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 15988 - L2 Version 2
Chandra X-Ray Center

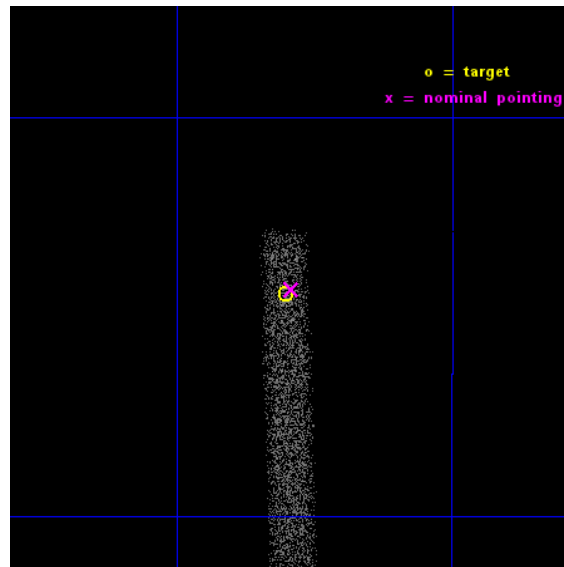
L2 Processing Date : Dec 10 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

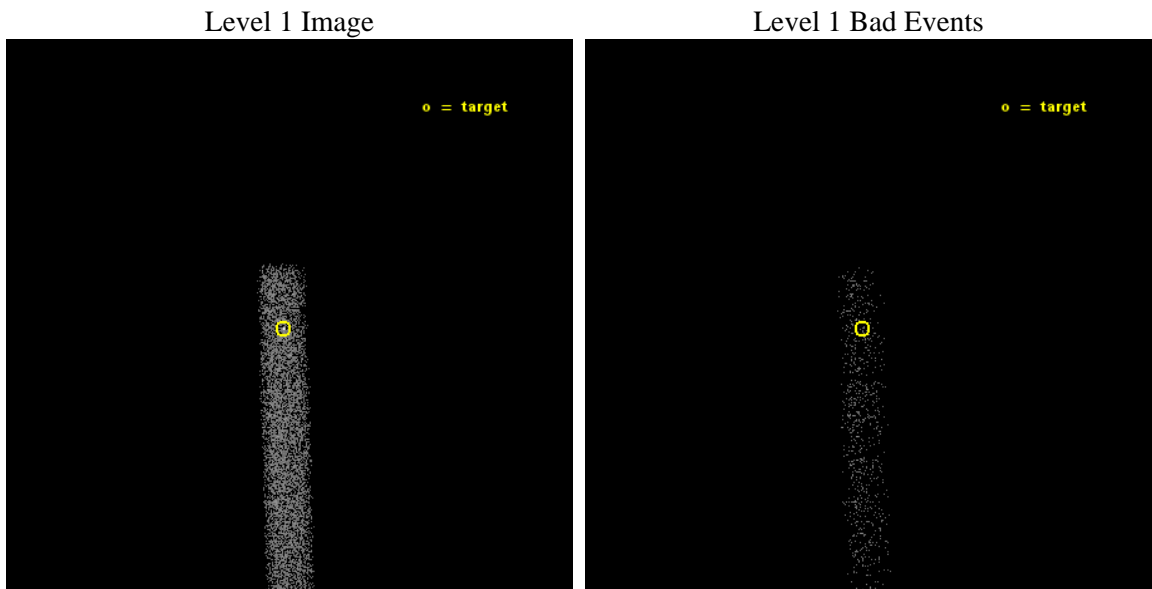
seq_num	502221	Sequence number
obs_id	15988	Observation id
title	What is the Magnetic Field of Magnetar Swift J1822.3-1606?	Proposa
observer	Professor Victoria Kaspi	Principal investigator
object	Swift J1822.3-1606	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	275.575417	Observer's specified target RA [deg]
dec_targ	-16.07375	Observer's specified target Dec [deg]
ra_nom	275.57282956279	Nominal RA [deg]
dec_nom	-16.072041600106	Nominal Dec [deg]
roll_nom	88.30075935336	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10069.199399829	Sum of GTIs [s]
livetime	9132.2323597215	Livetime [s]
ontime7	10069.199399829	Sum of GTIs [s]
l2events	4787	Number of level 2 events



2 OBI

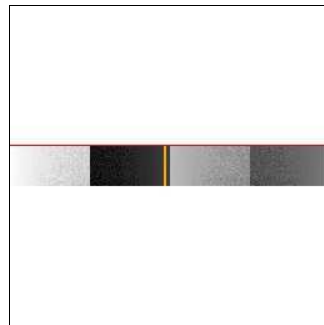
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	10069.199399829	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	10069.199399829	Sum of GTIs [s]
date	2014-12-10T13:53:57	Date and time of file creation	l1events	9238	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

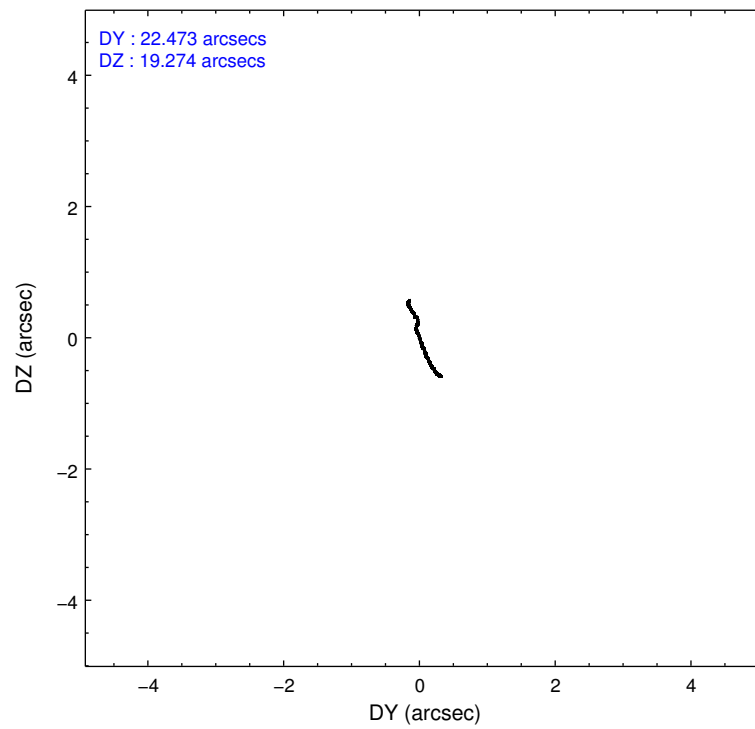
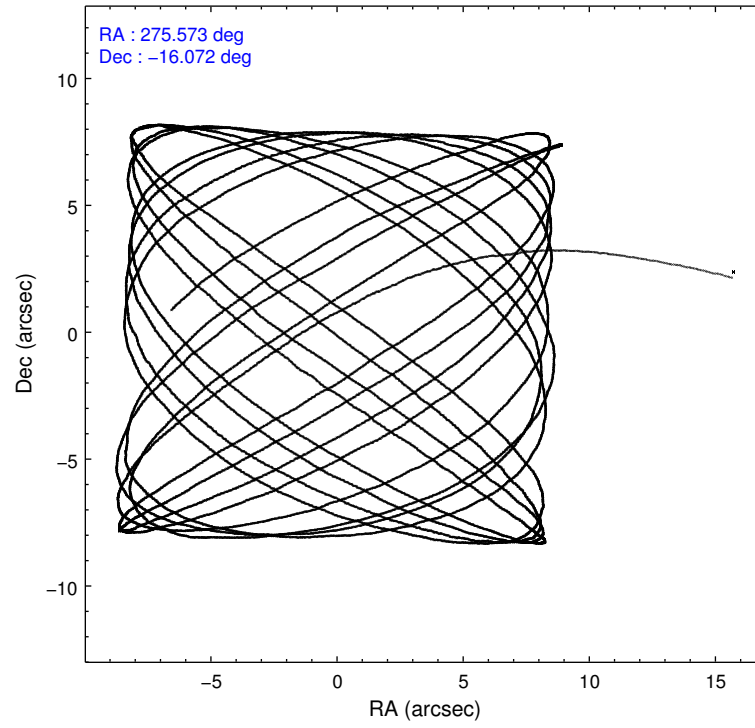
	ccd 7
level 1 events	9238
rejected events	4290
rejected %	46%

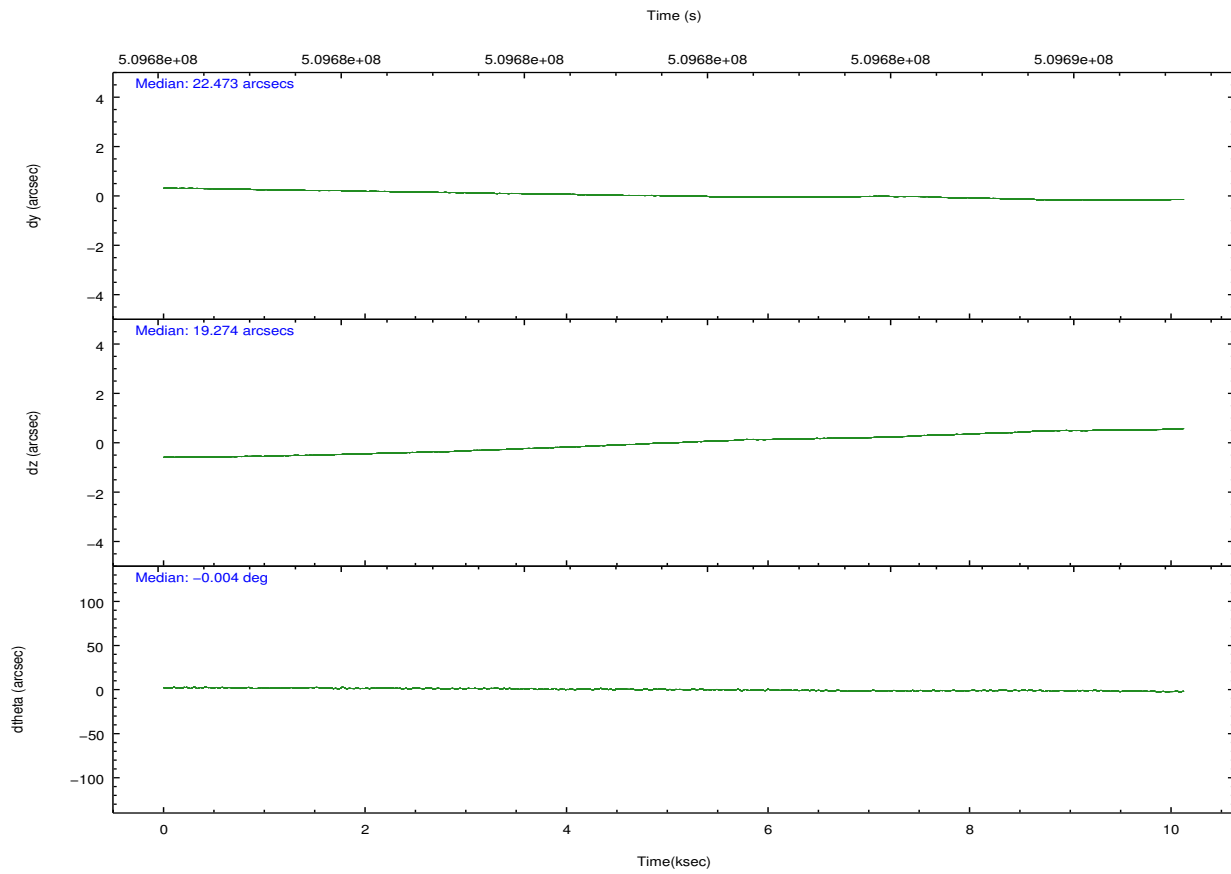
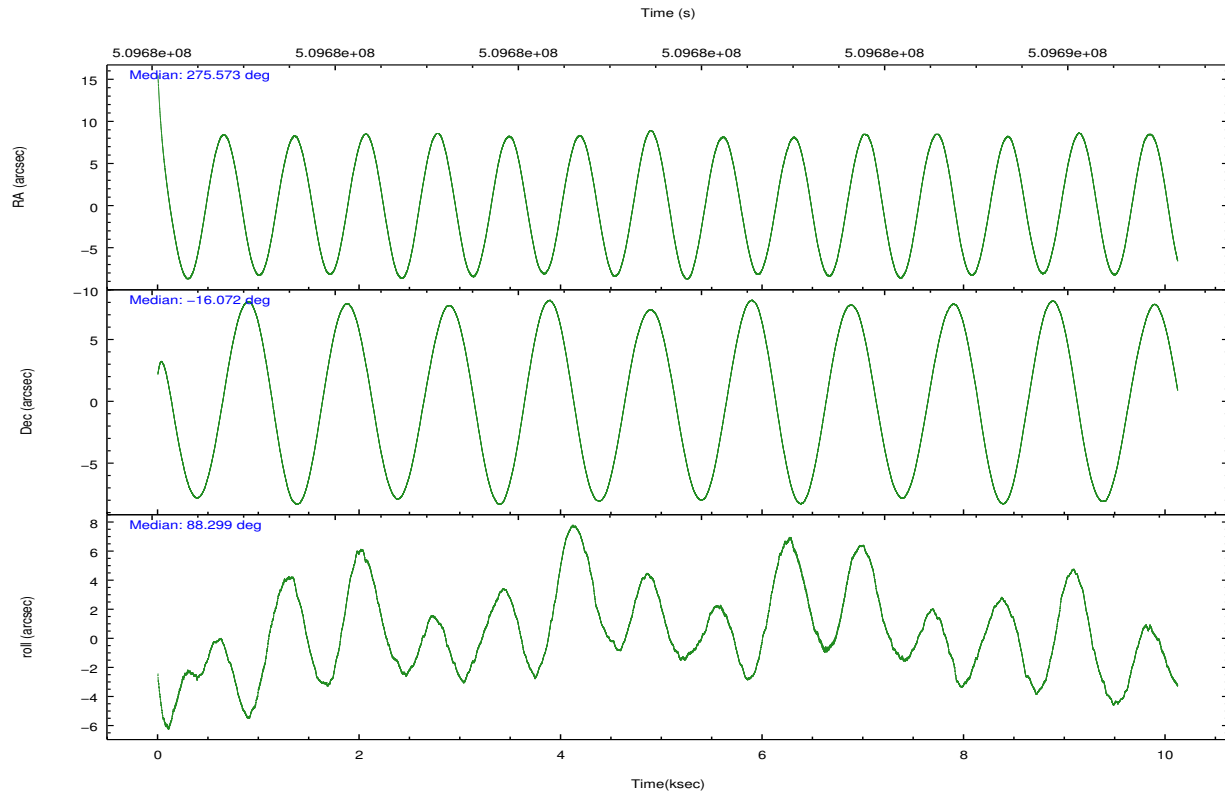
	ccd 7
grade 0 events	644
	6%
grade 1 events	10
	0%
grade 2 events	1009
	10%
grade 3 events	639
	6%
grade 4 events	620
	6%
grade 5 events	900
	9%
grade 6 events	2036
	22%
grade 7 events	3380
	36%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	275.586642	275.5728295627913	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-16.095941	-16.07204160010574	Subarray start row	449	449
[deg] Pointing Roll	88.147971	88.3007593533596	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)	509676701.184000	509675502.48044			
Observation start date	2014-02-25T00:50:34	2014-02-25T00:31:42			
[s] Observation end time (MET)	509686701.184000	509688084.35613			
Observation end date	2014-02-25T03:37:14	2014-02-25T04:01:24			
Read mode	TIMED	TIMED			

2.3 Aspect





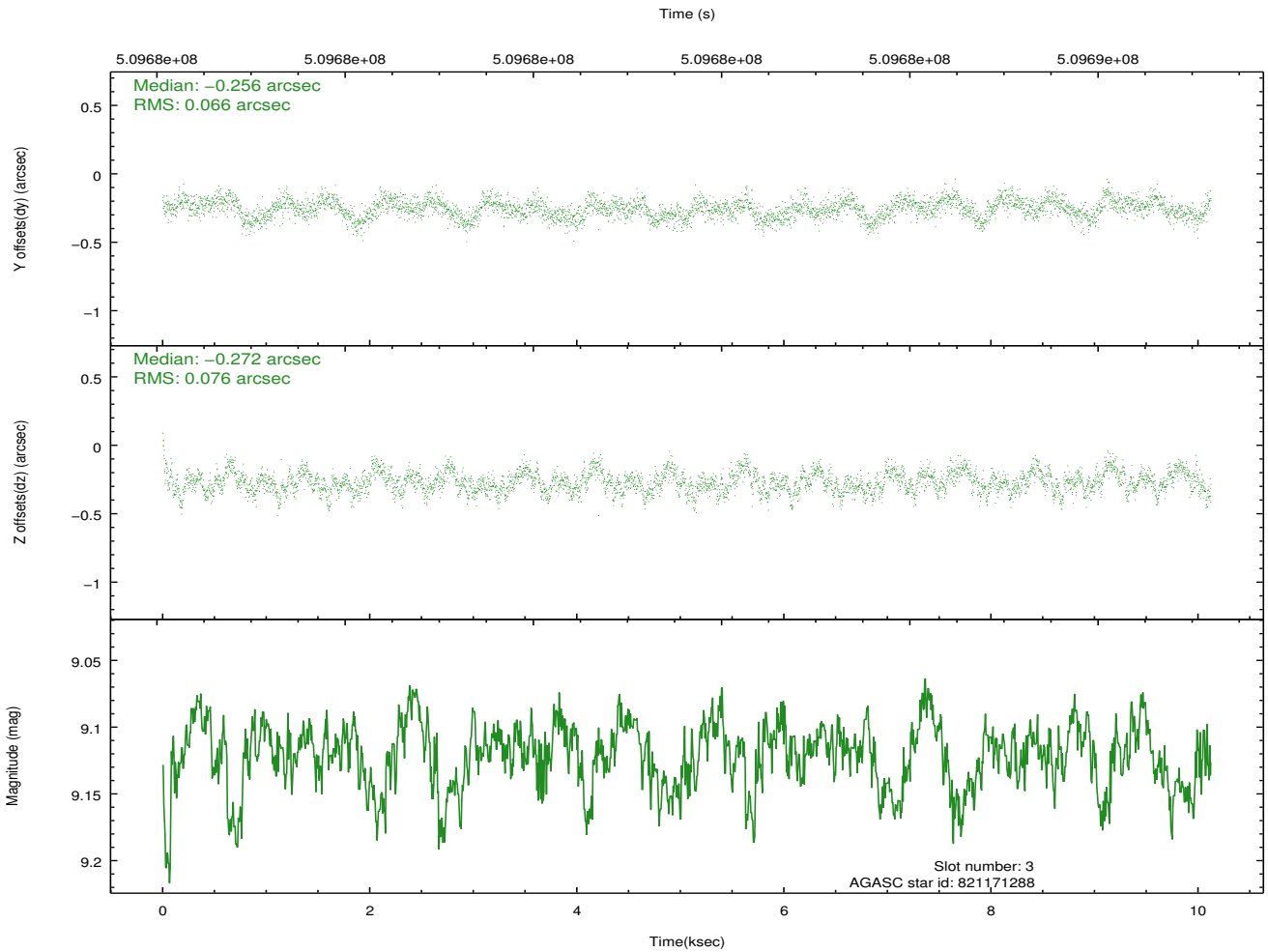
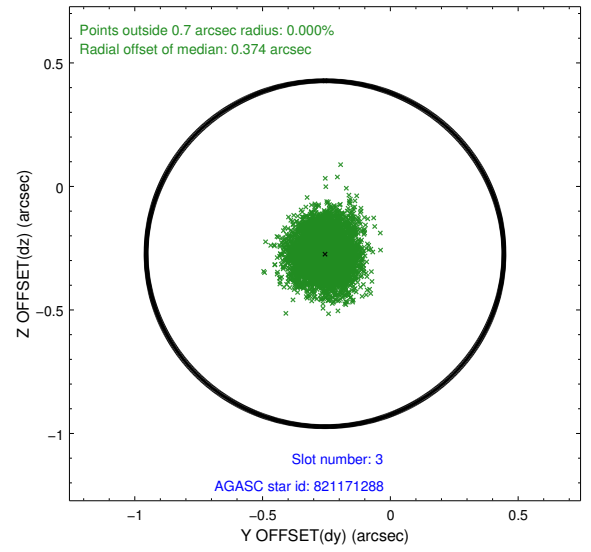
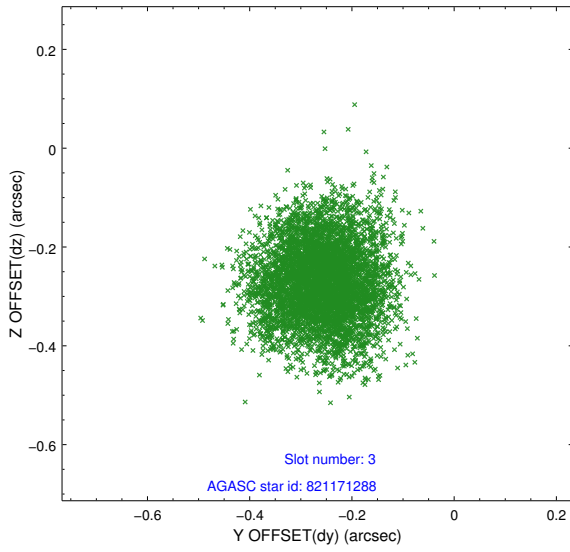
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.05	2469	-0.131	-0.054	0.014	0.024	0.000000	0.000000	-775.81	-1740.75
1	FID		ACIS-S-4	7.14	2469	0.312	0.078	0.008	0.014	0.000000	0.000000	2137.66	167.34
2	FID		ACIS-S-5	7.16	2470	-0.211	-0.016	0.014	0.026	0.000000	0.000000	-1828.07	161.49
3	GUIDE	used	821171288	9.12	4937	-0.256	-0.272	0.108	0.171	275.426002	-15.652858	1576.05	608.09
4	GUIDE	used	821171832	8.87	4936	-0.091	0.158	0.095	0.150	275.792275	-15.610164	1771.09	-655.60
5	GUIDE	used	821180448	7.18	4939	0.001	-0.254	0.065	0.111	275.453560	-16.324585	-837.08	432.73
6	GUIDE	used	821181752	7.62	4938	-0.035	-0.198	0.061	0.100	275.331456	-16.373905	-1029.15	848.67
7	GUIDE	used	821320776	8.02	4935	0.382	0.563	0.083	0.131	276.259669	-16.763117	-2329.04	-2395.75

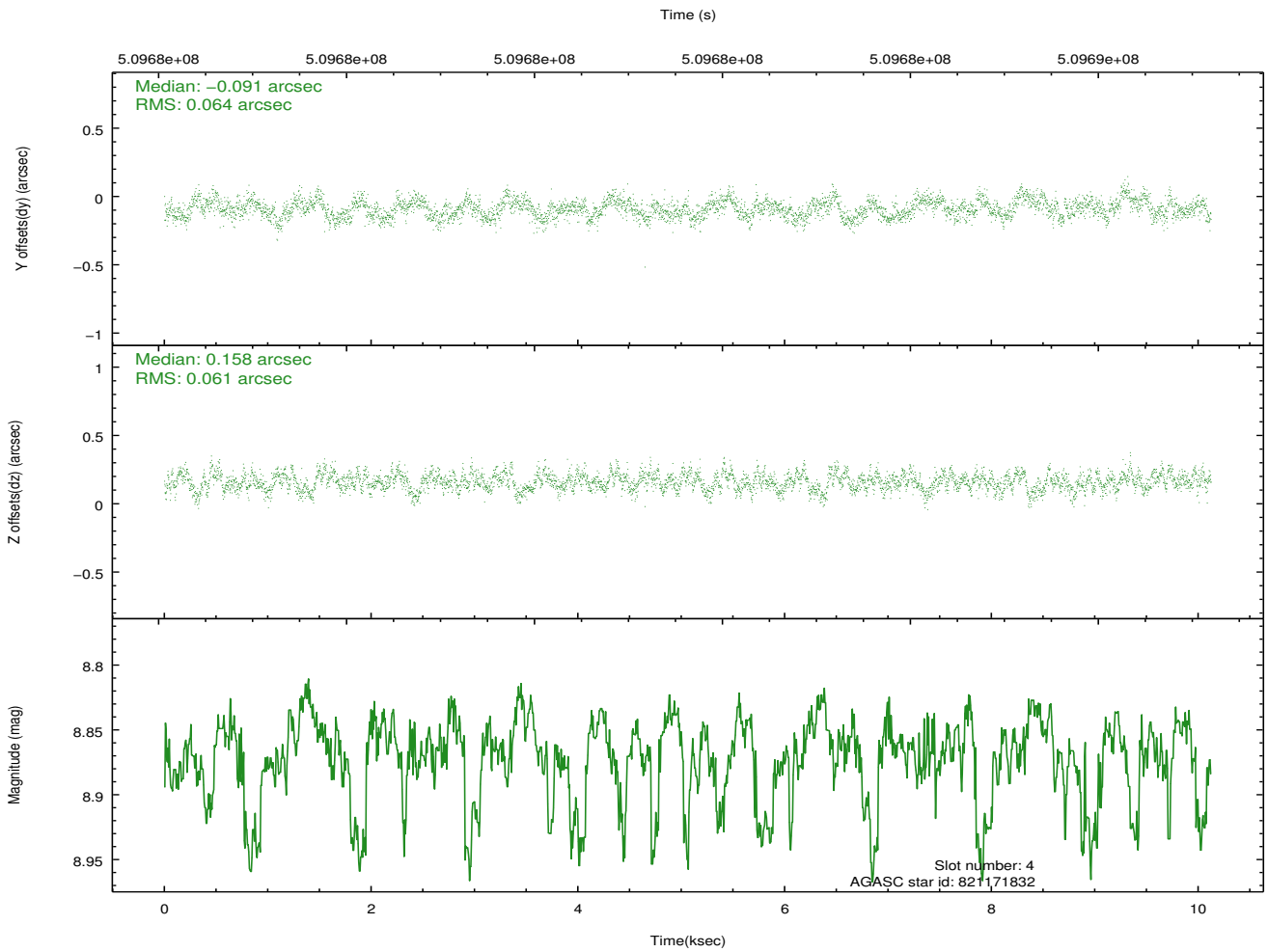
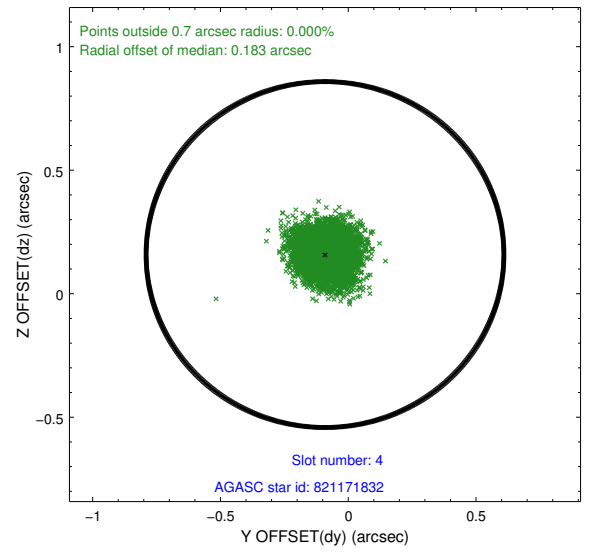
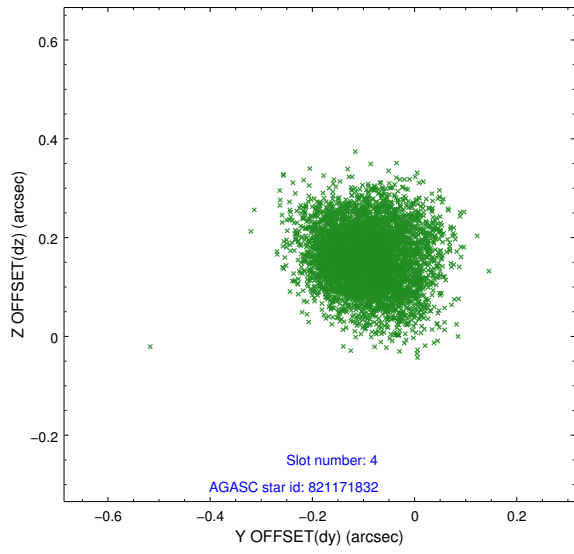
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2.4 Star Slots

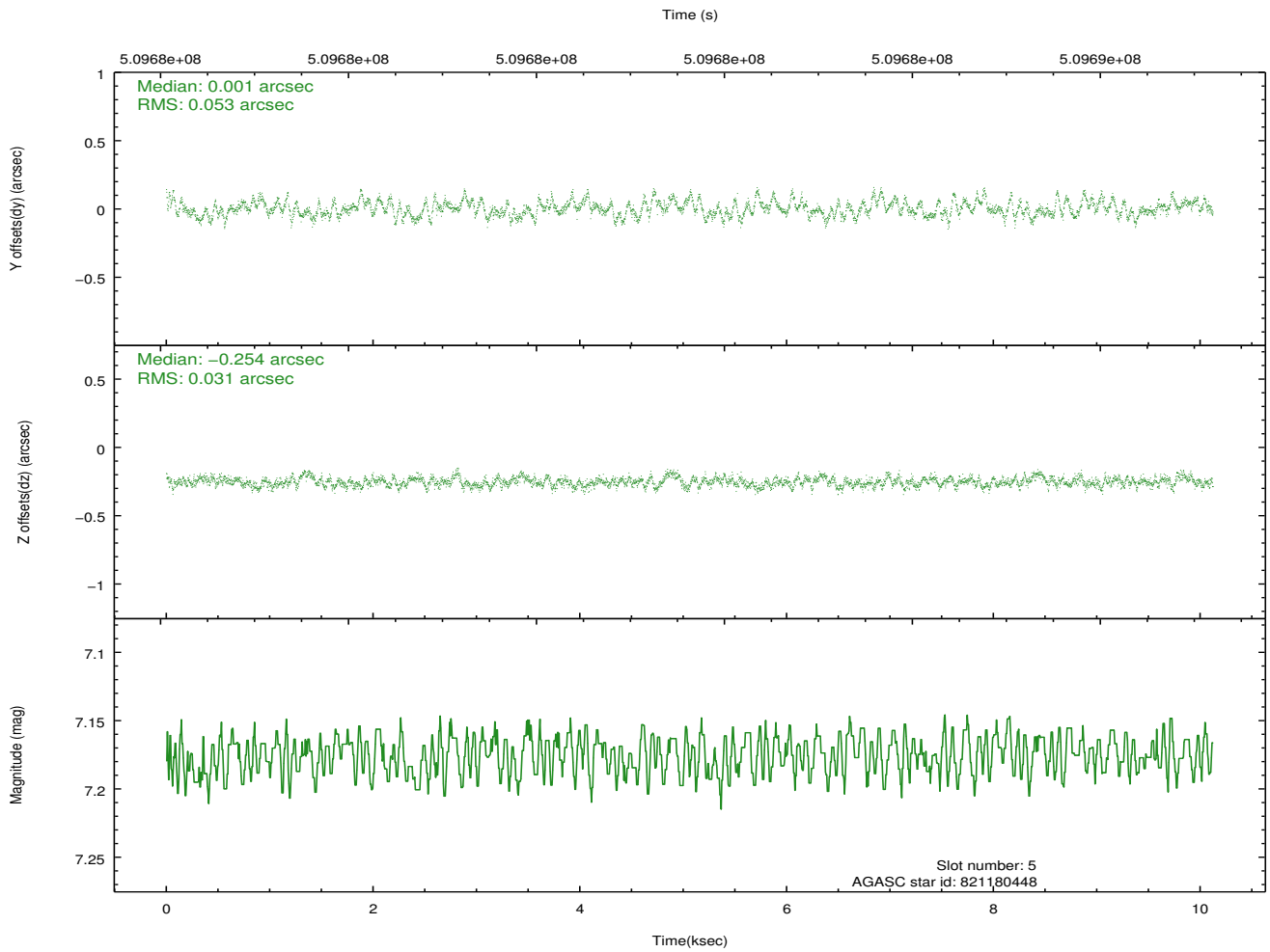
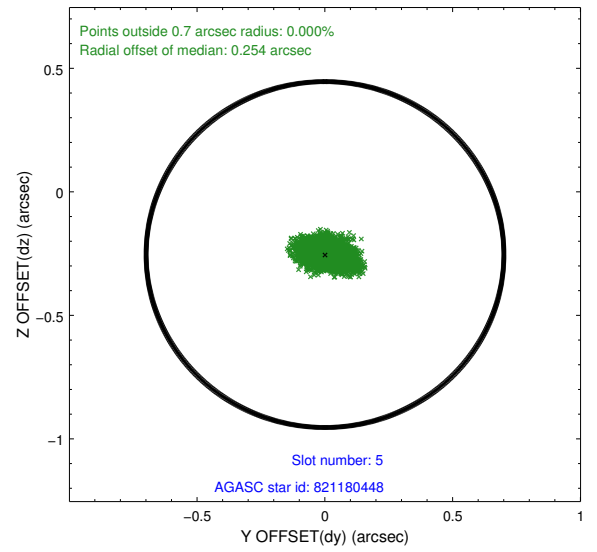
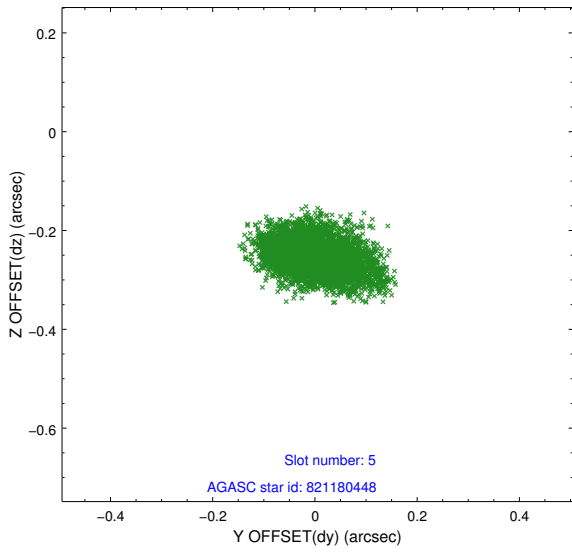
2.4.1 Slot 3



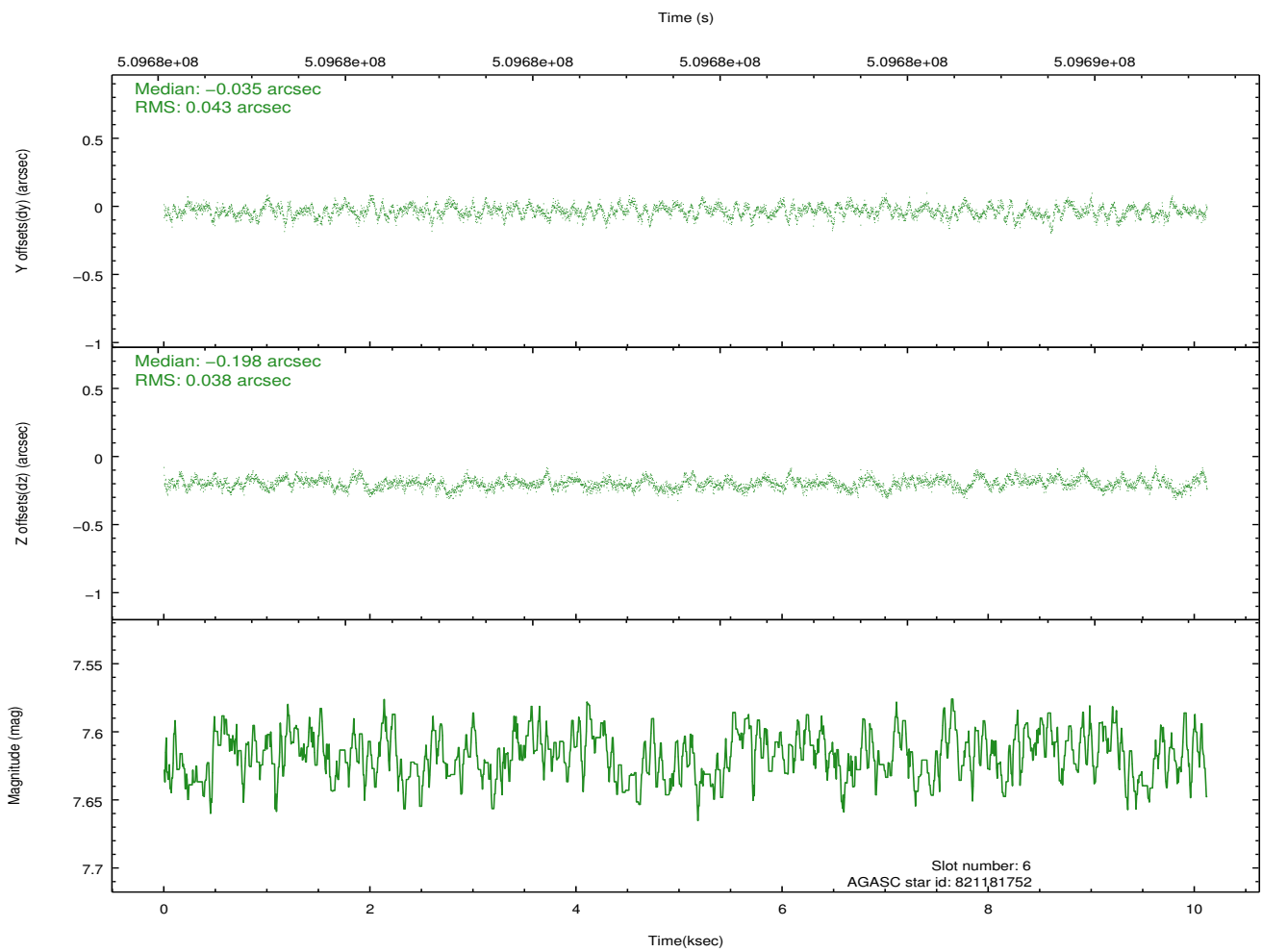
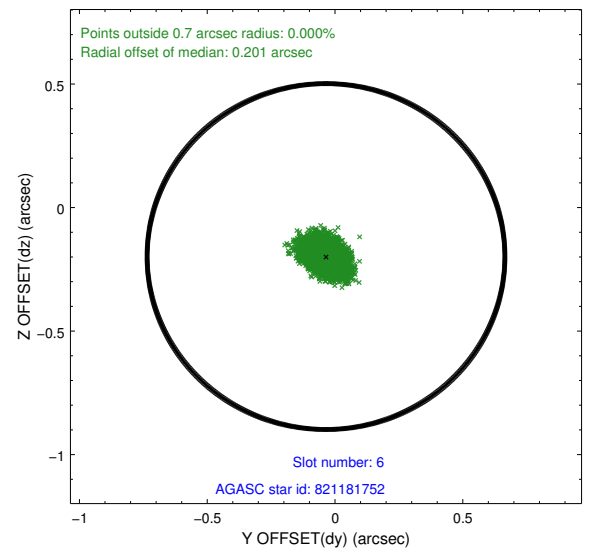
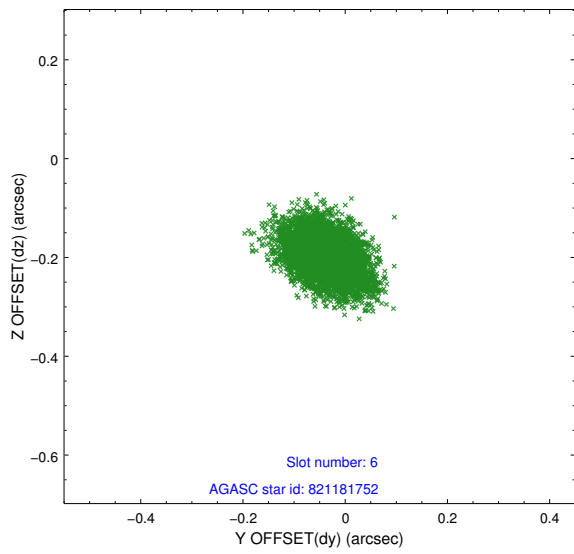
2.4.2 Slot 4



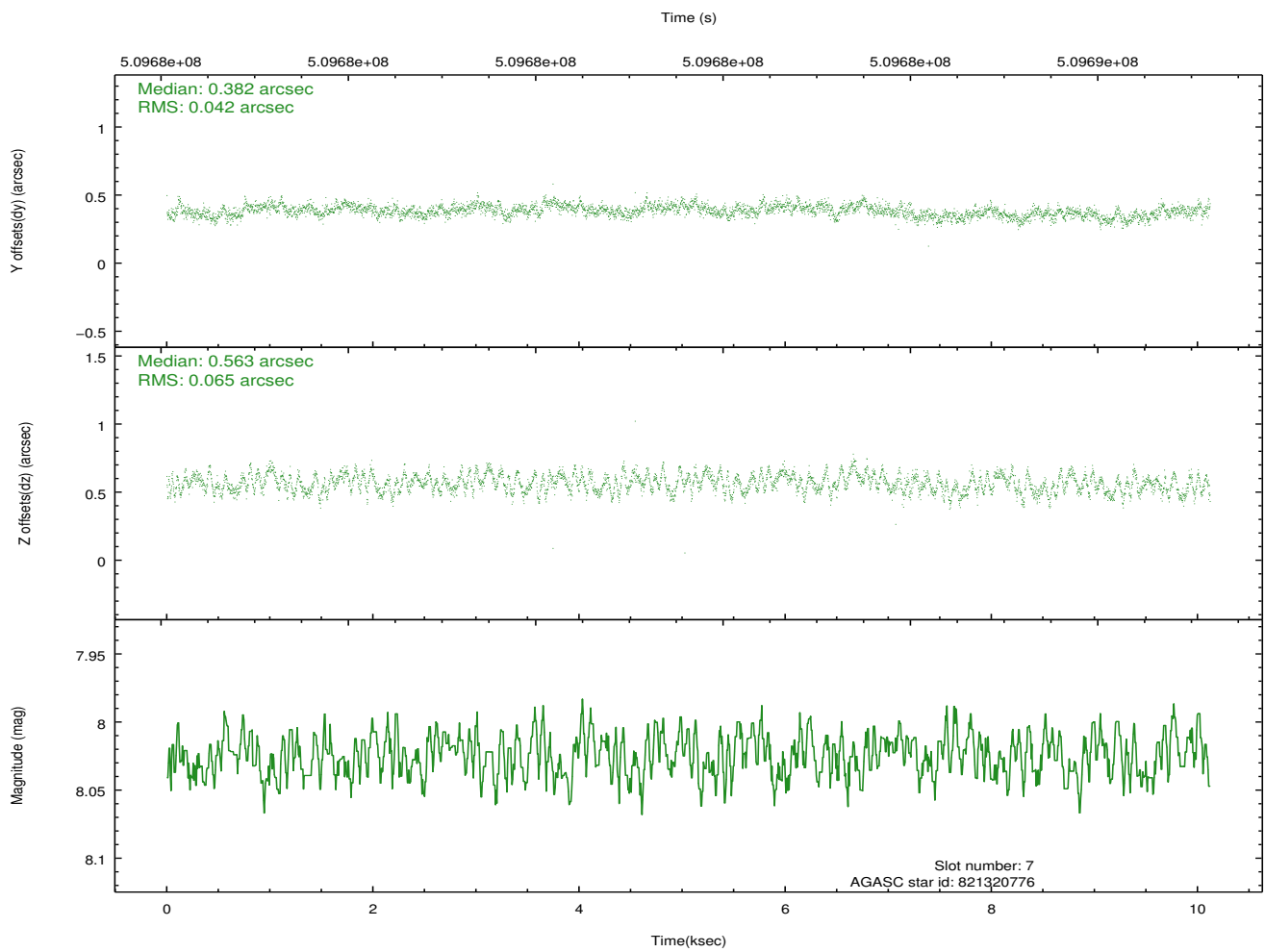
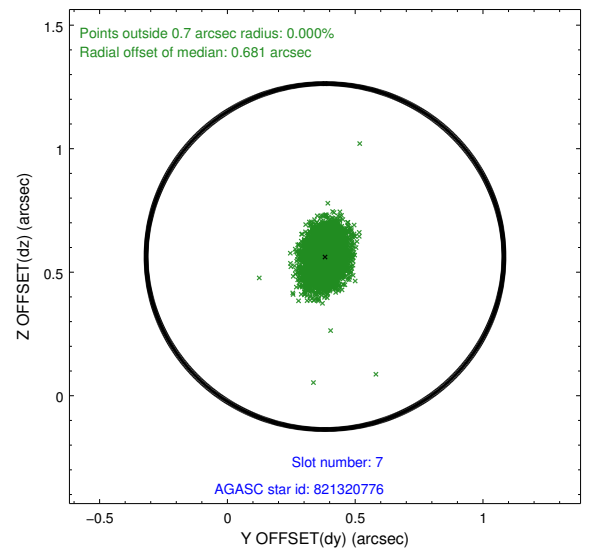
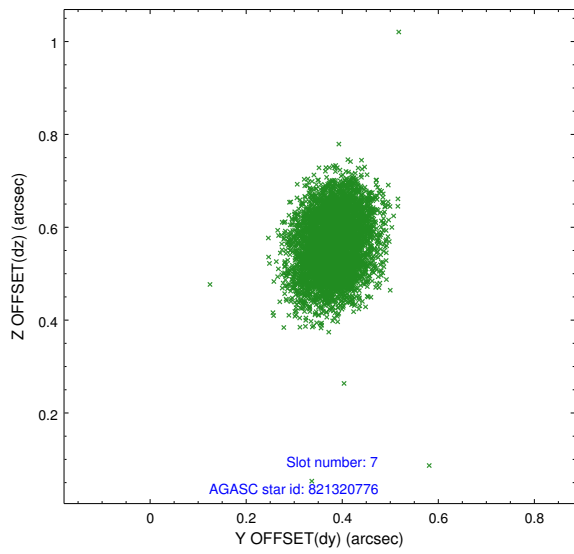
2.4.3 Slot 5



2.4.4 Slot 6

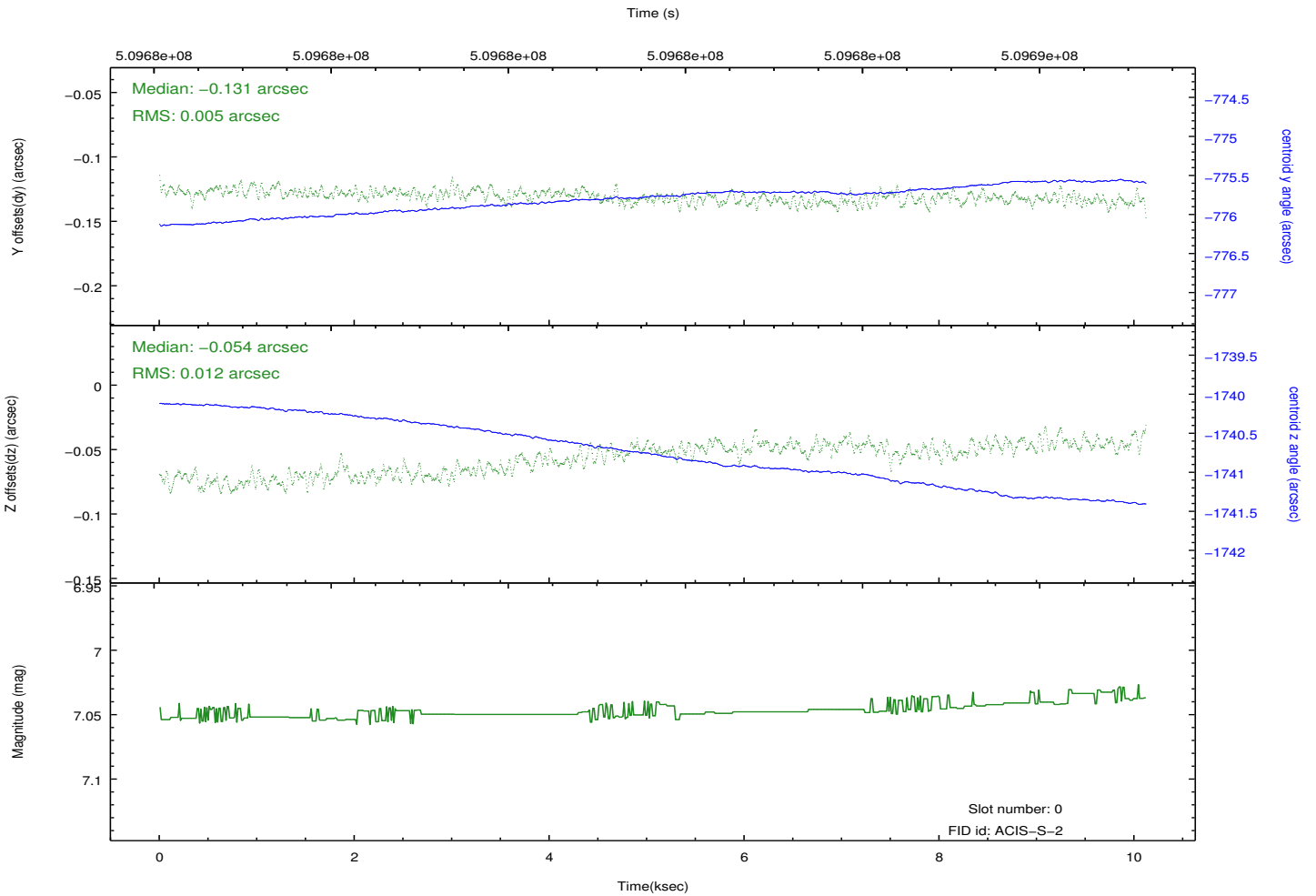
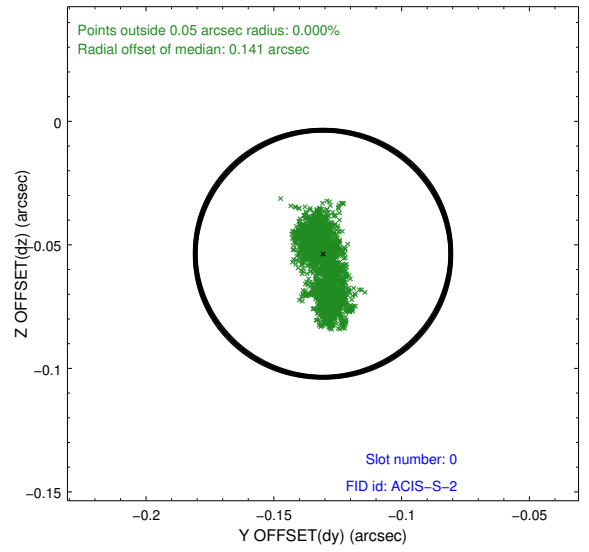
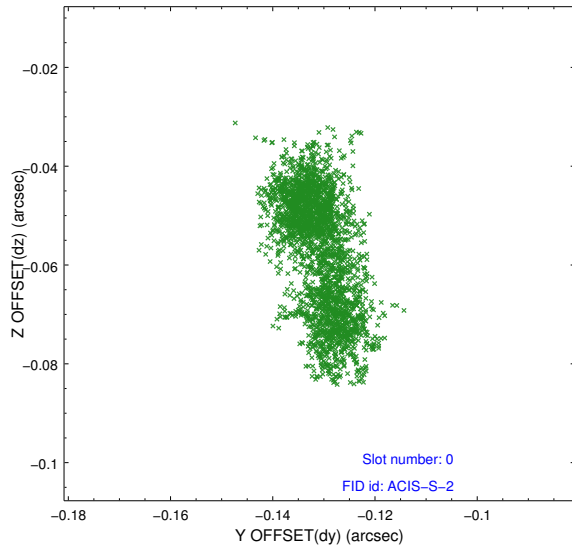


2.4.5 Slot 7

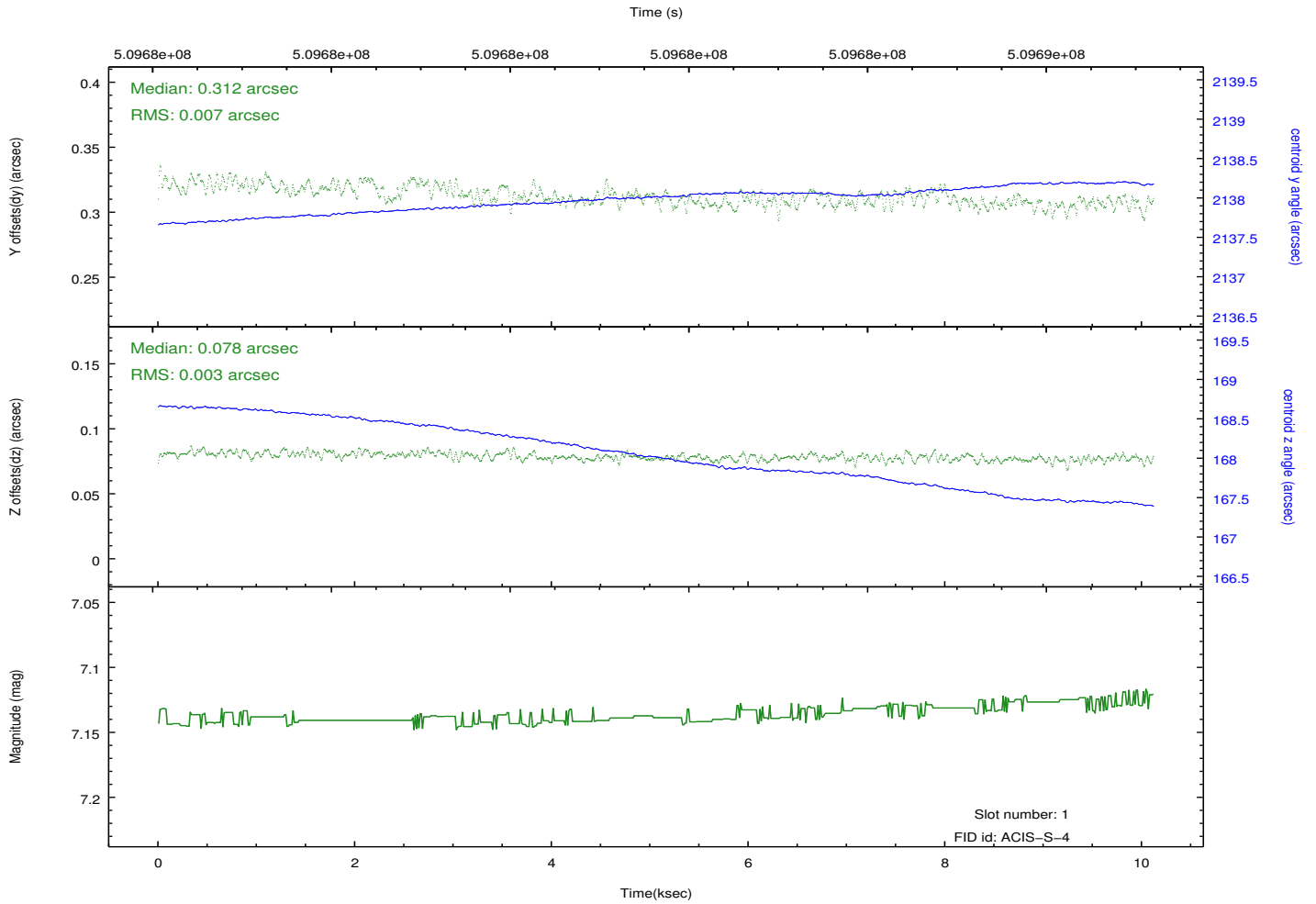
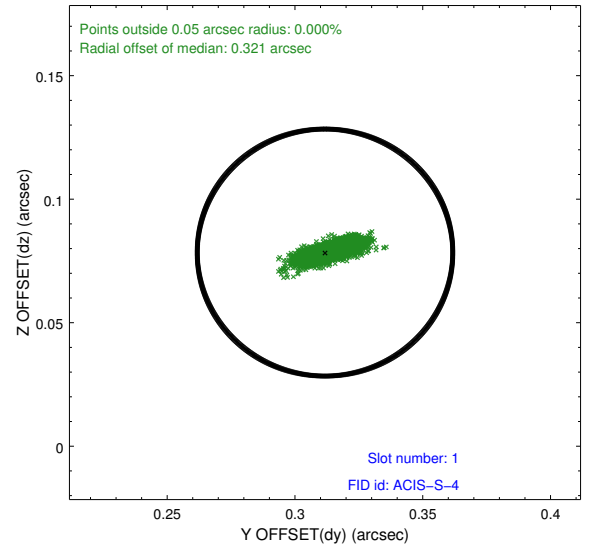
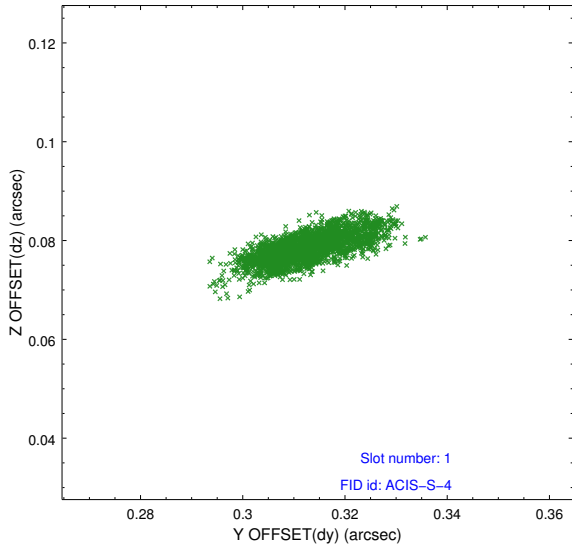


2.5 FID Slots

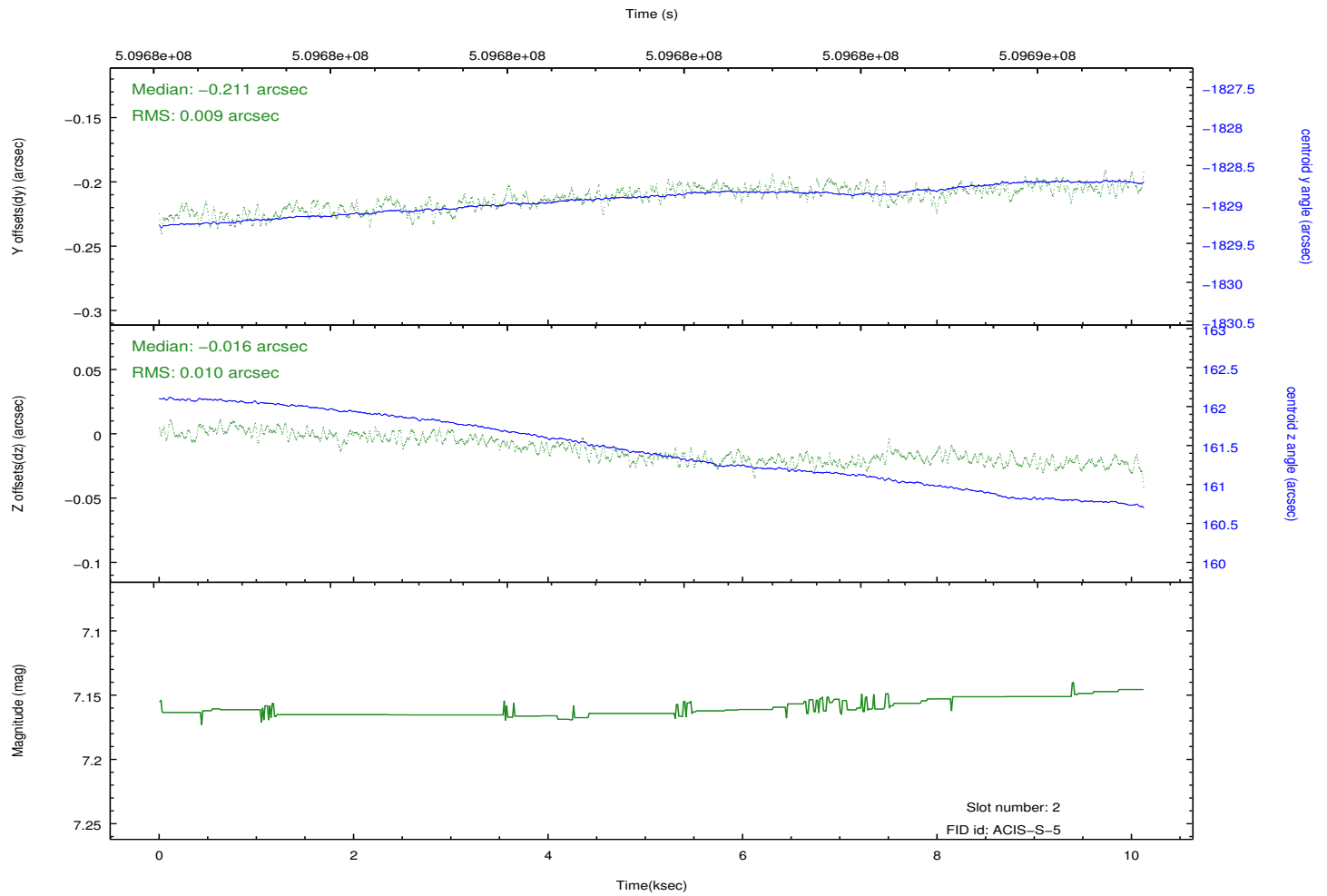
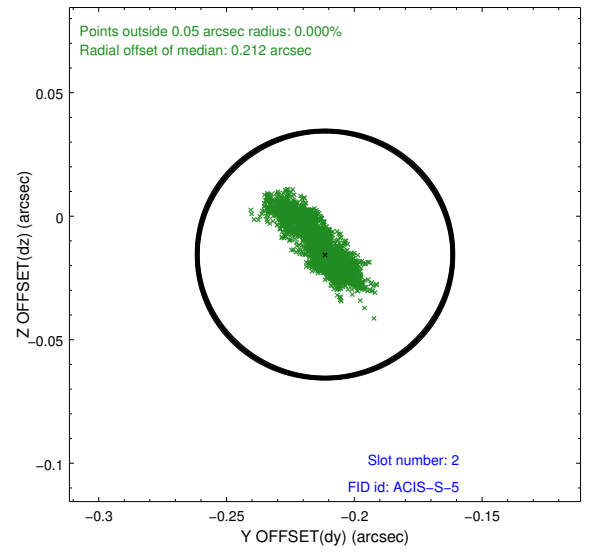
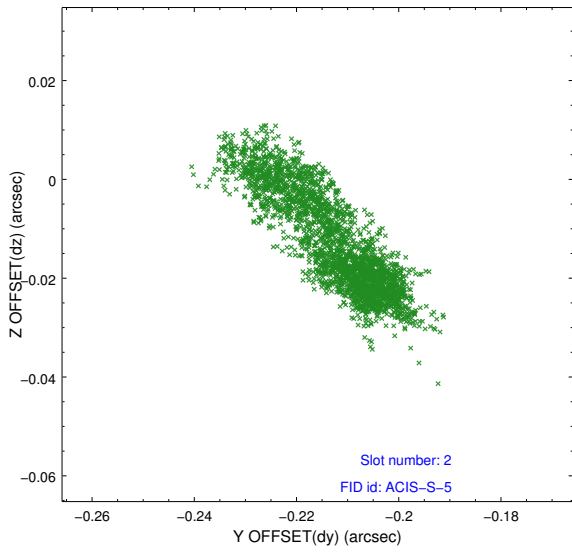
2.5.1 Slot 0



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)	2014.12.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.069199399829

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.