

V&V Reference Report

L2 ASCDS Version : 10

Observation 14703 - L2 Version 2
Chandra X-Ray Center

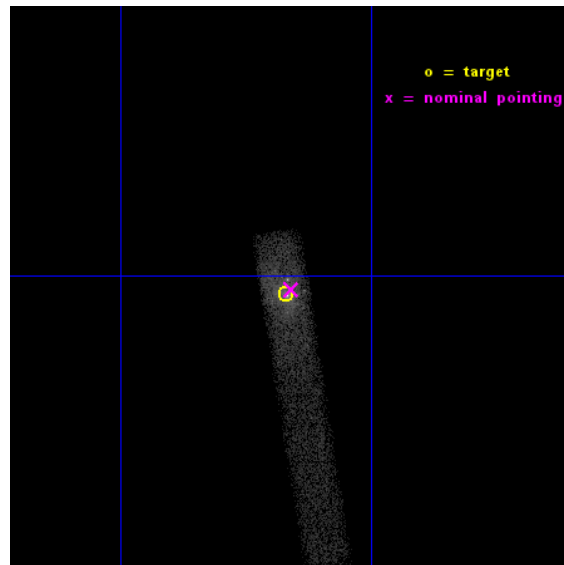
L2 Processing Date : Dec 3 2014

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1 Front

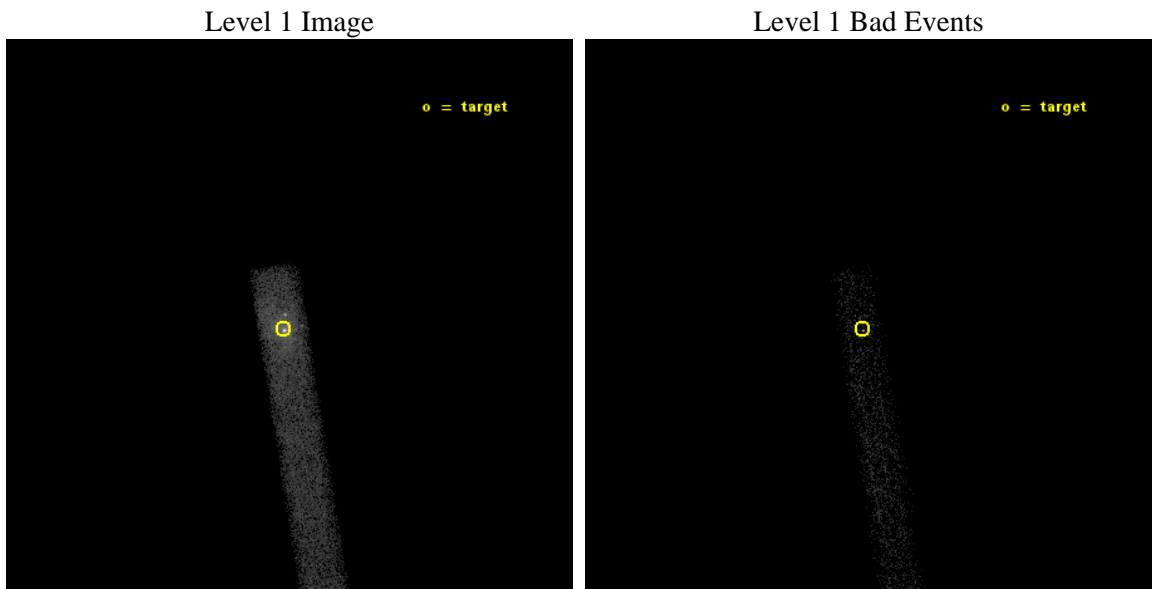
seq_num	501831	Sequence number
obs_id	14703	Observation id
title	PROMPT STUDY OF MAGNETAR OUTBURSTS WITH CHANDRA	Proposal title
observer	Dr. Nanda Rea	Principal investigator
object	NEWMAGNETAR	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.417458	Observer's specified target RA [deg]
dec_targ	-29.007889	Observer's specified target Dec [deg]
ra_nom	266.41489406885	Nominal RA [deg]
dec_nom	-29.005878730131	Nominal Dec [deg]
roll_nom	80.715401348364	Nominal Roll [deg]
revision	2	Processing version of data
ontime	18567.998893261	Sum of GTIs [s]
livetime	16840.194896845	Livetime [s]
ontime7	18567.998893261	Sum of GTIs [s]
l2events	26829	Number of level 2 events



2 OBI

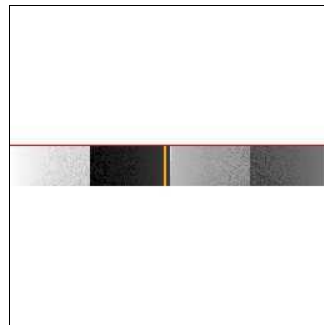
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18500.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	18567.998893261	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	18567.998893261	Sum of GTIs [s]
date	2014-12-03T12:20:16	Date and time of file creation	l1events	36384	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

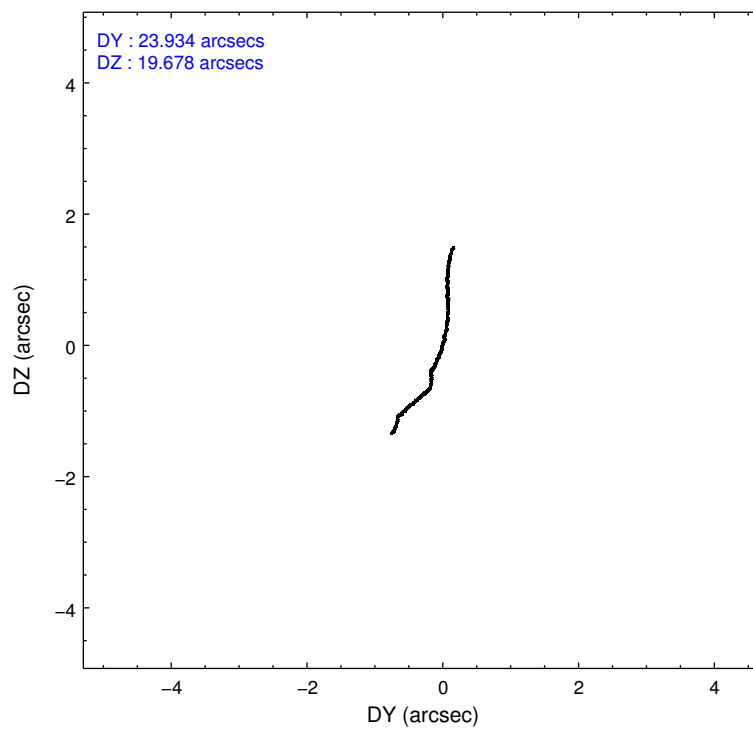
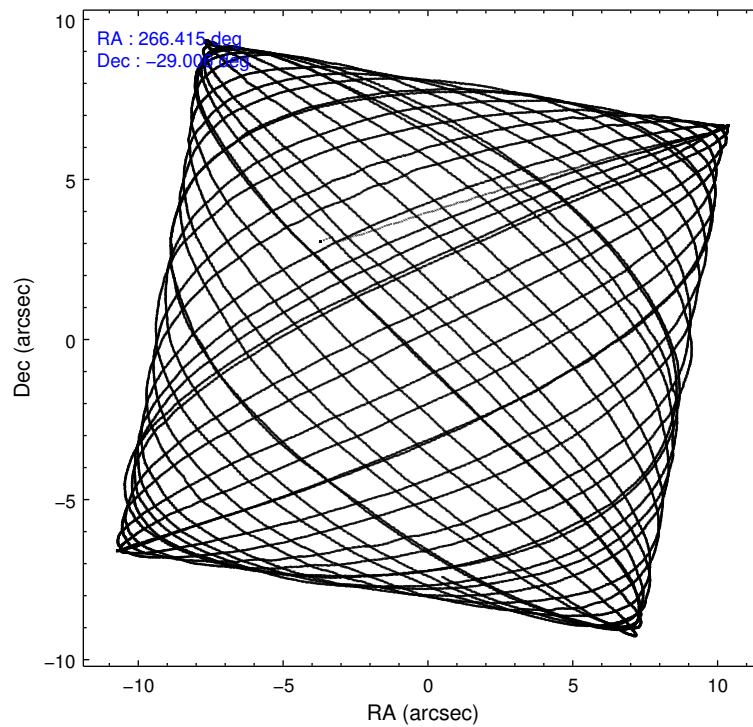
	ccd 7
level 1 events	36384
rejected events	9147
rejected %	25%

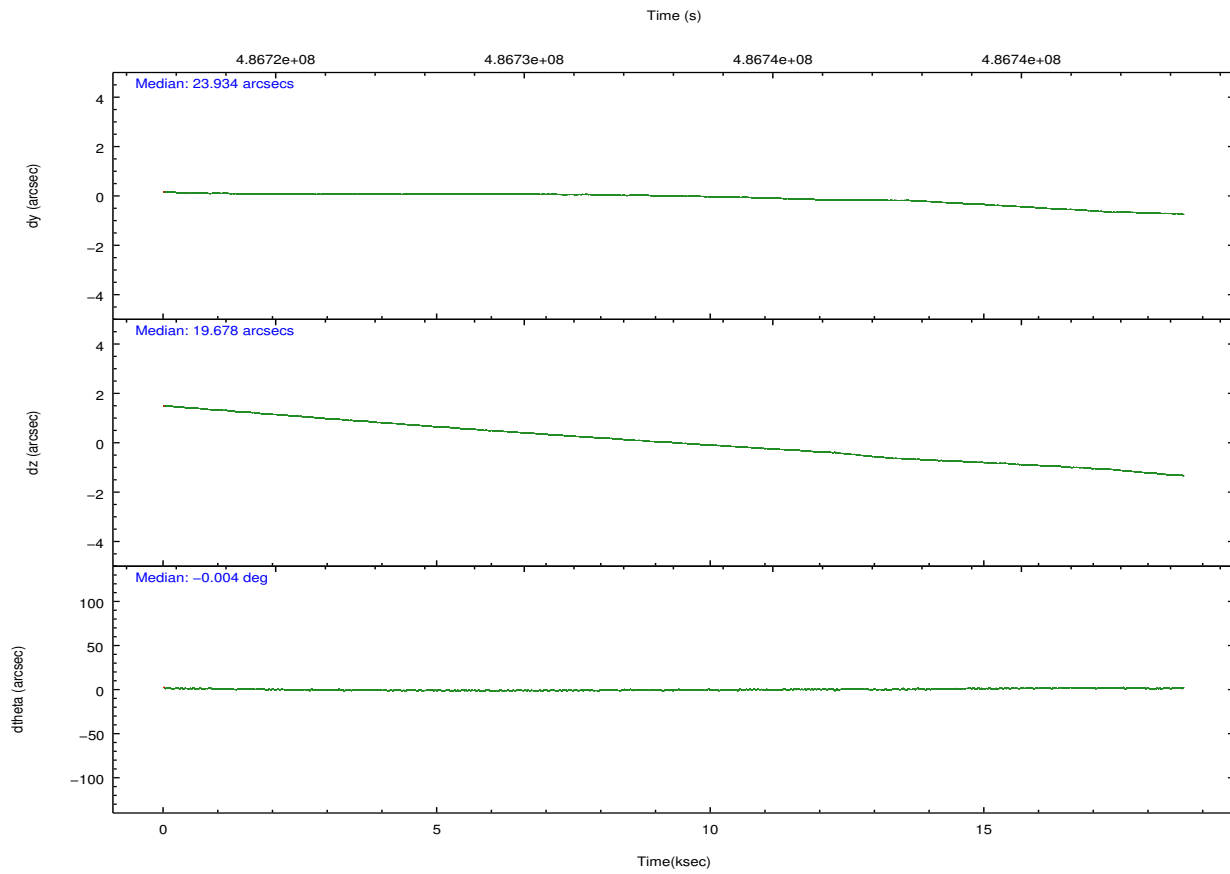
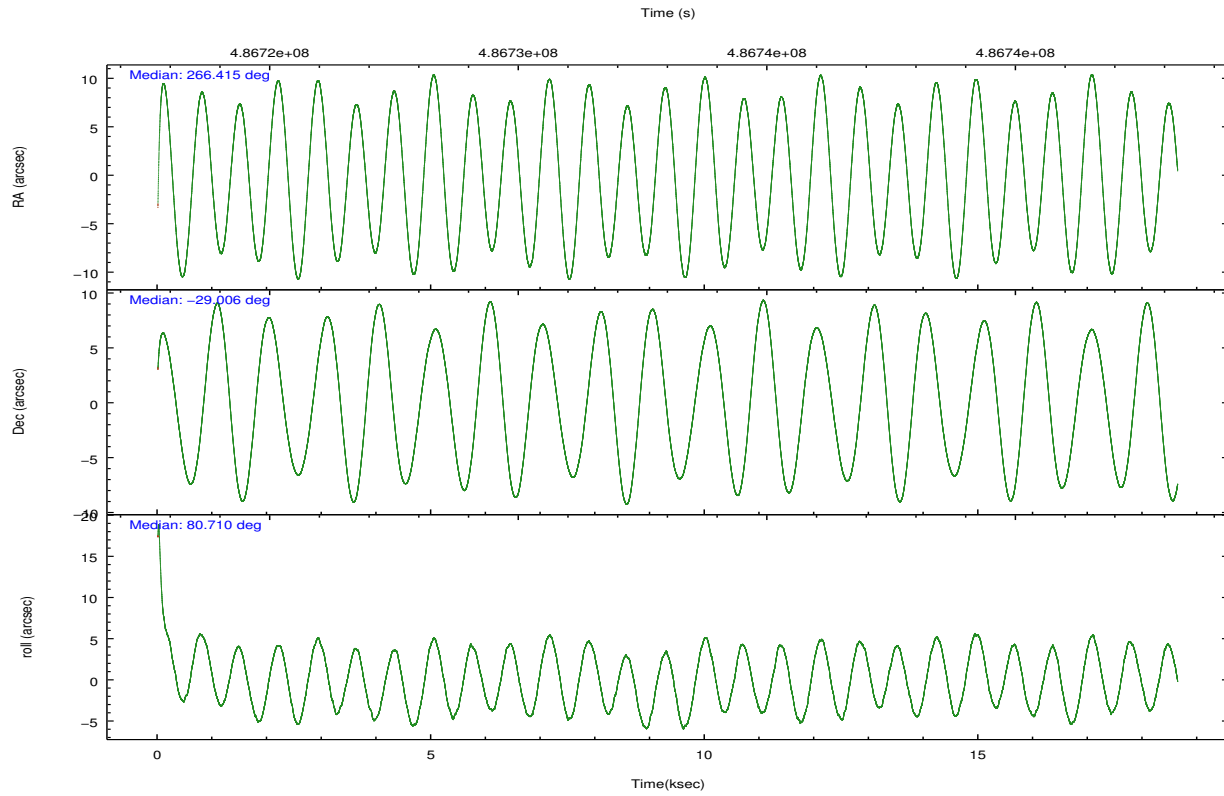
	ccd 7
grade 0 events	4406
	12%
grade 1 events	50
	0%
grade 2 events	6121
	16%
grade 3 events	3109
	8%
grade 4 events	3104
	8%
grade 5 events	1943
	5%
grade 6 events	10497
	28%
grade 7 events	7154
	19%

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	266.426333	266.4148940688503	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-29.031320	-29.00587873013125	Subarray start row	449	449
[deg] Pointing Roll	80.564311	80.71540134836353	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)	486723834.184000	486722716.71264			
Observation start date	2013-06-04T09:02:47	2013-06-04T08:45:16			
[s] Observation end time (MET)	486742334.184000	486743355.08876			
Observation end date	2013-06-04T14:11:07	2013-06-04T14:29:15			
Read mode	TIMED	TIMED			

2.3 Aspect





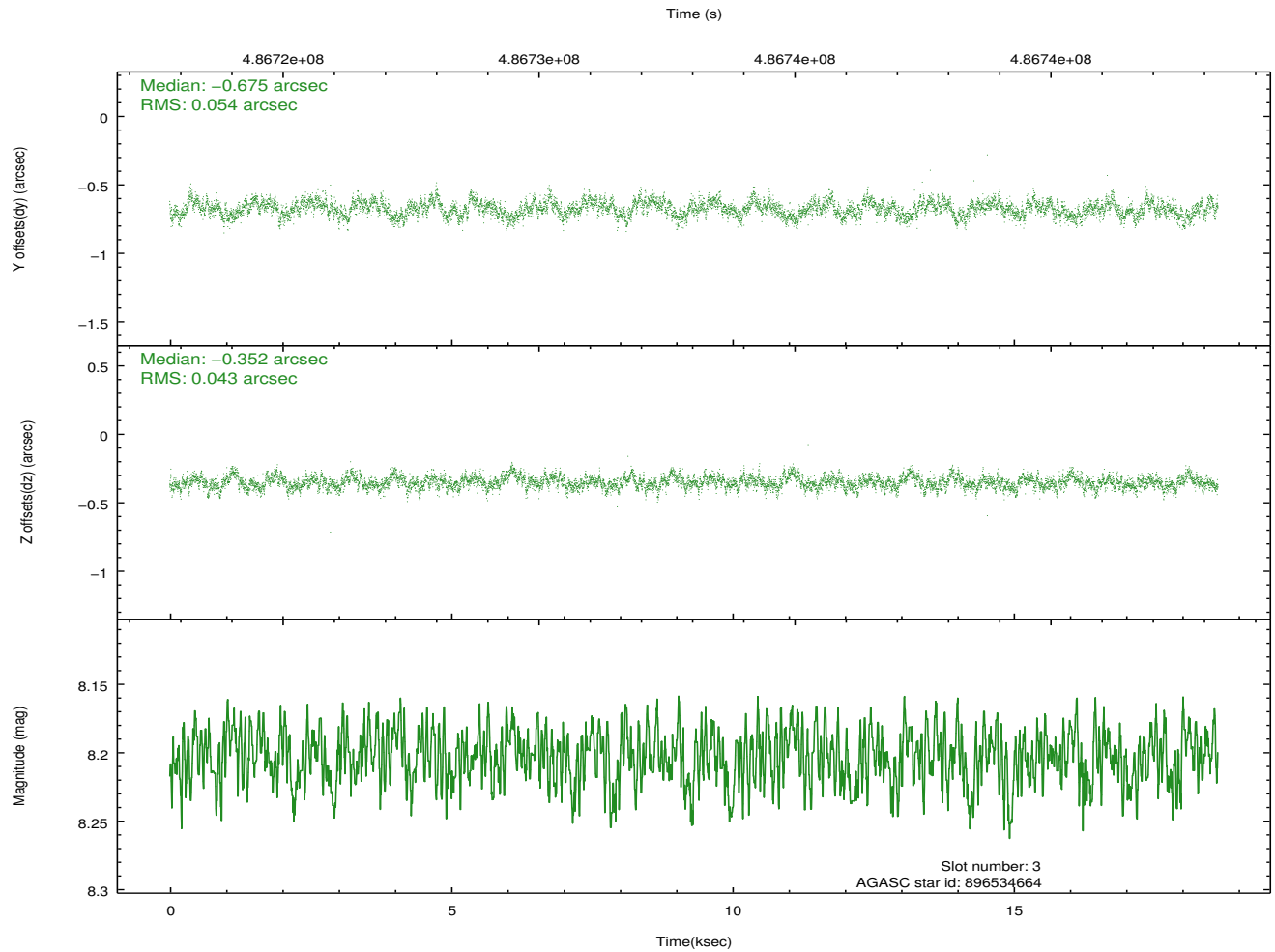
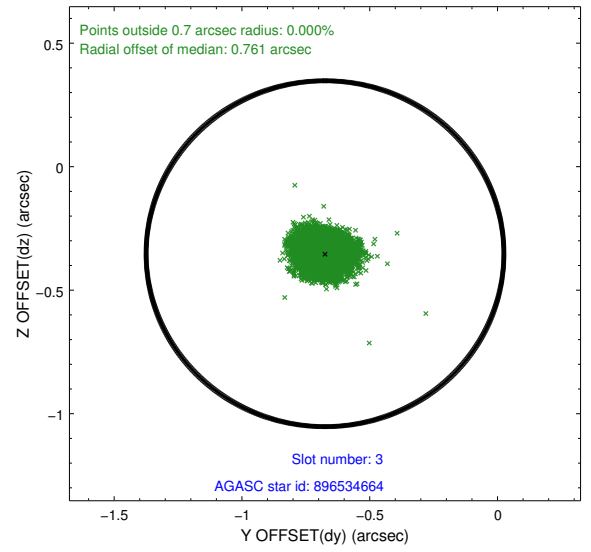
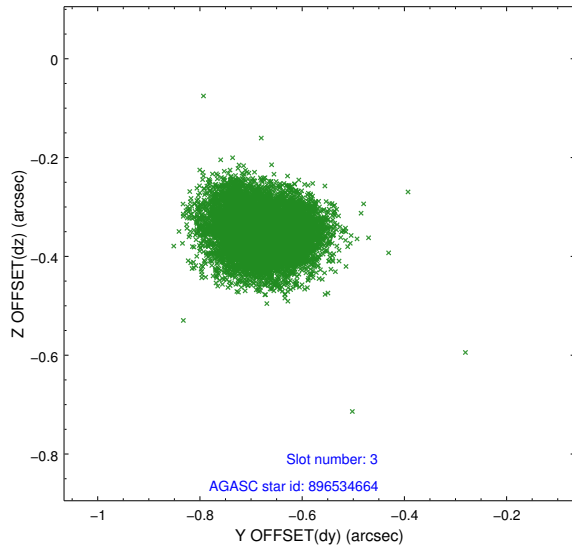
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.92	4546	-0.155	-0.035	0.025	0.042	0.000000	0.000000	-777.18	-1741.19
1	FID		ACIS-S-4	7.00	4546	0.342	0.083	0.011	0.036	0.000000	0.000000	2136.49	167.17
2	FID		ACIS-S-5	7.03	4546	-0.217	-0.044	0.020	0.039	0.000000	0.000000	-1829.81	160.98
3	GUIDE	used	896534664	8.20	9088	-0.675	-0.352	0.073	0.118	266.405570	-28.407461	2204.06	433.22
4	GUIDE	used	896537776	7.53	9092	0.307	0.263	0.055	0.086	266.655684	-29.665673	-2135.16	-1081.88
5	GUIDE	used	896538208	7.99	9091	0.023	0.207	0.076	0.128	267.176969	-28.671626	1658.77	-2127.32
6	GUIDE	used	896541360	7.73	9089	0.238	0.215	0.068	0.115	266.684478	-29.453744	-1367.80	-1047.58
7	GUIDE	used	896403224	8.28	9089	0.105	-0.328	0.077	0.126	265.612825	-29.438915	-1874.88	2273.56

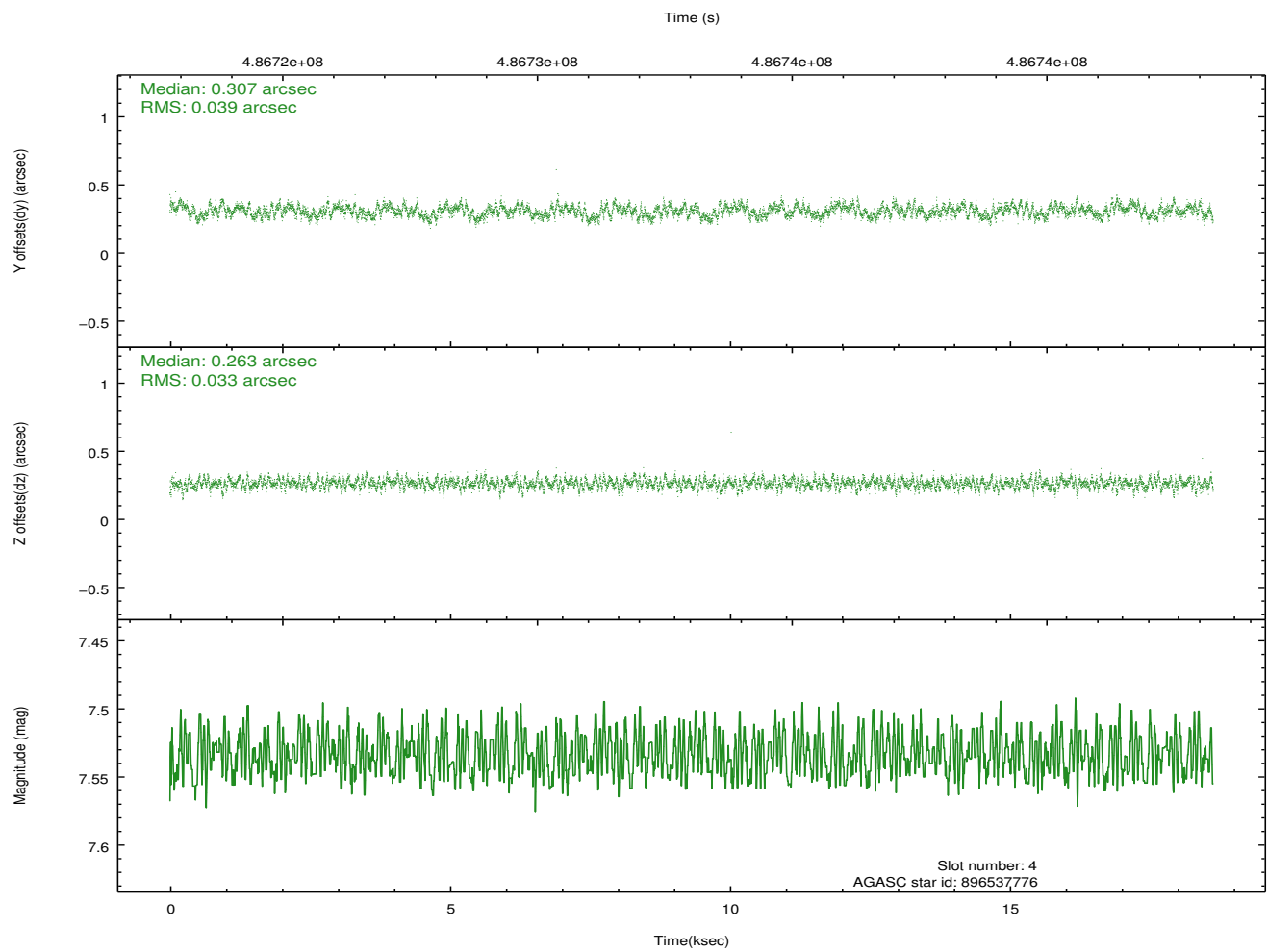
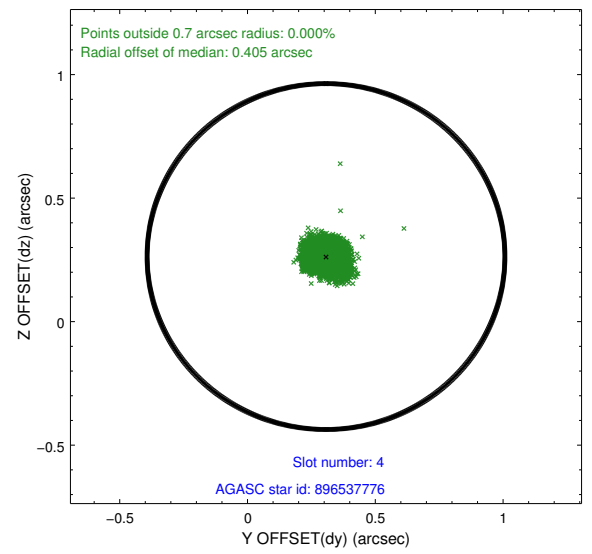
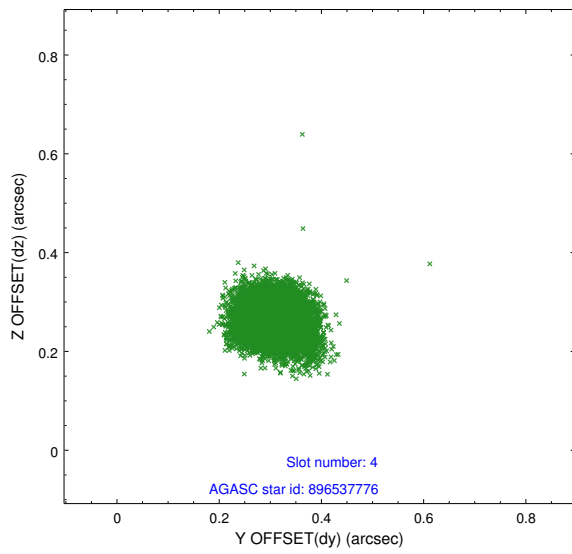
∞

2.4 Star Slots

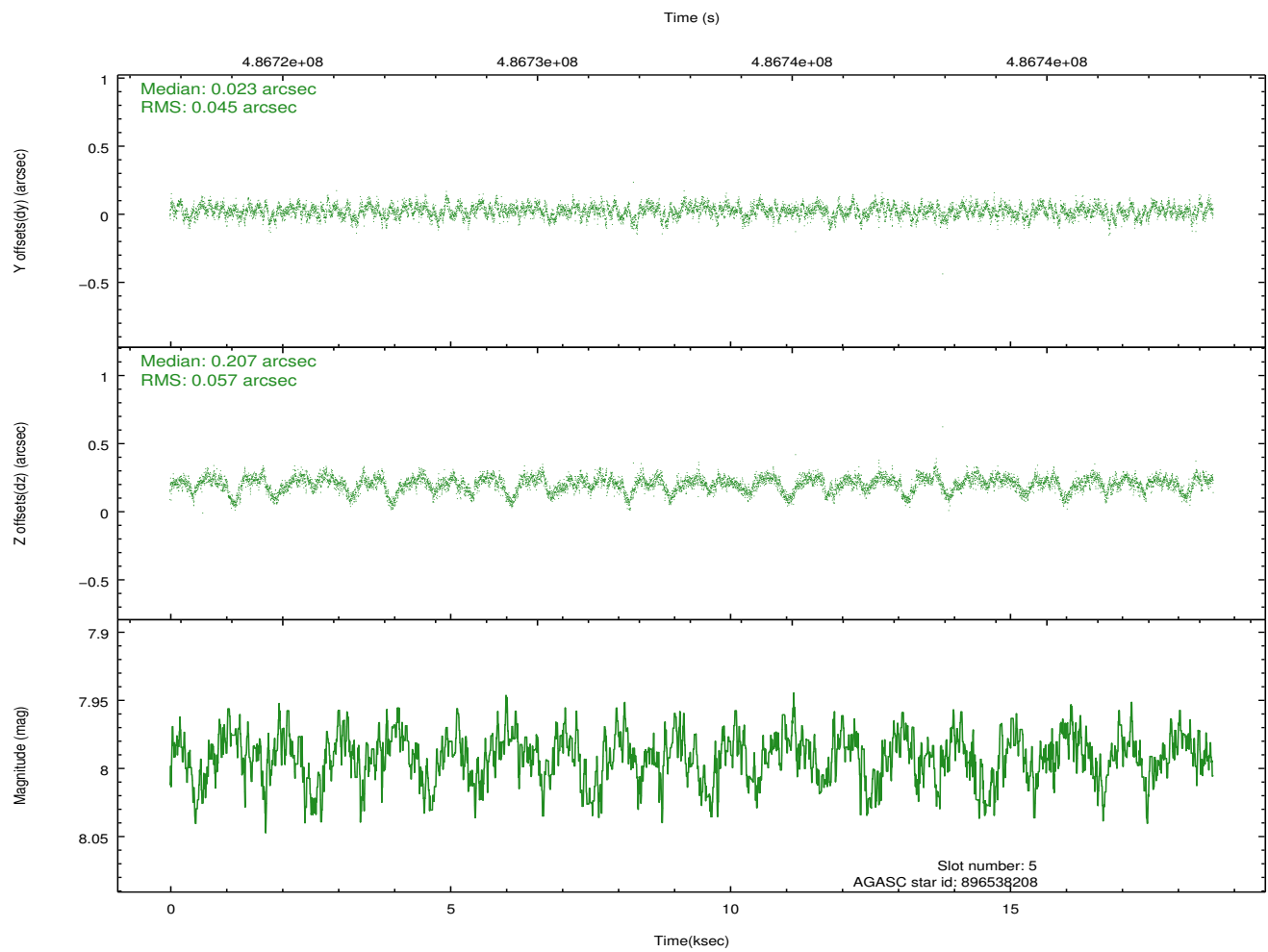
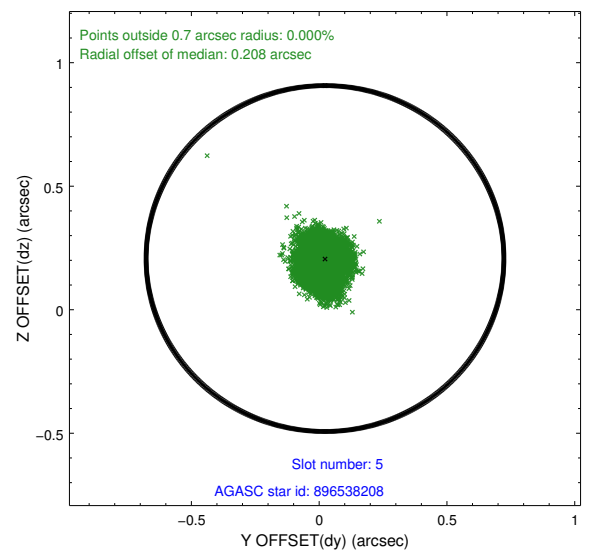
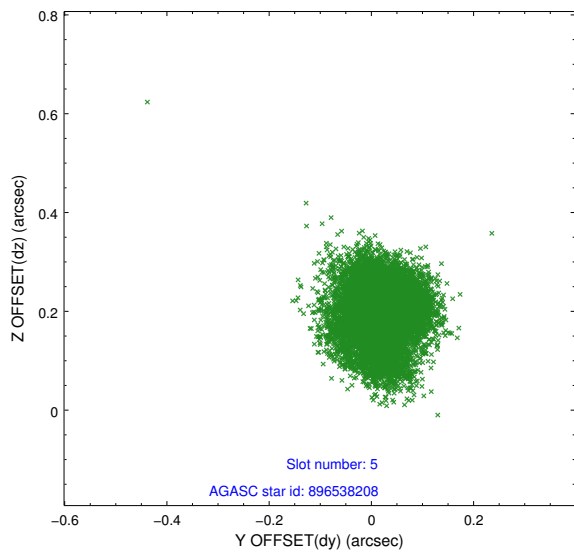
2.4.1 Slot 3



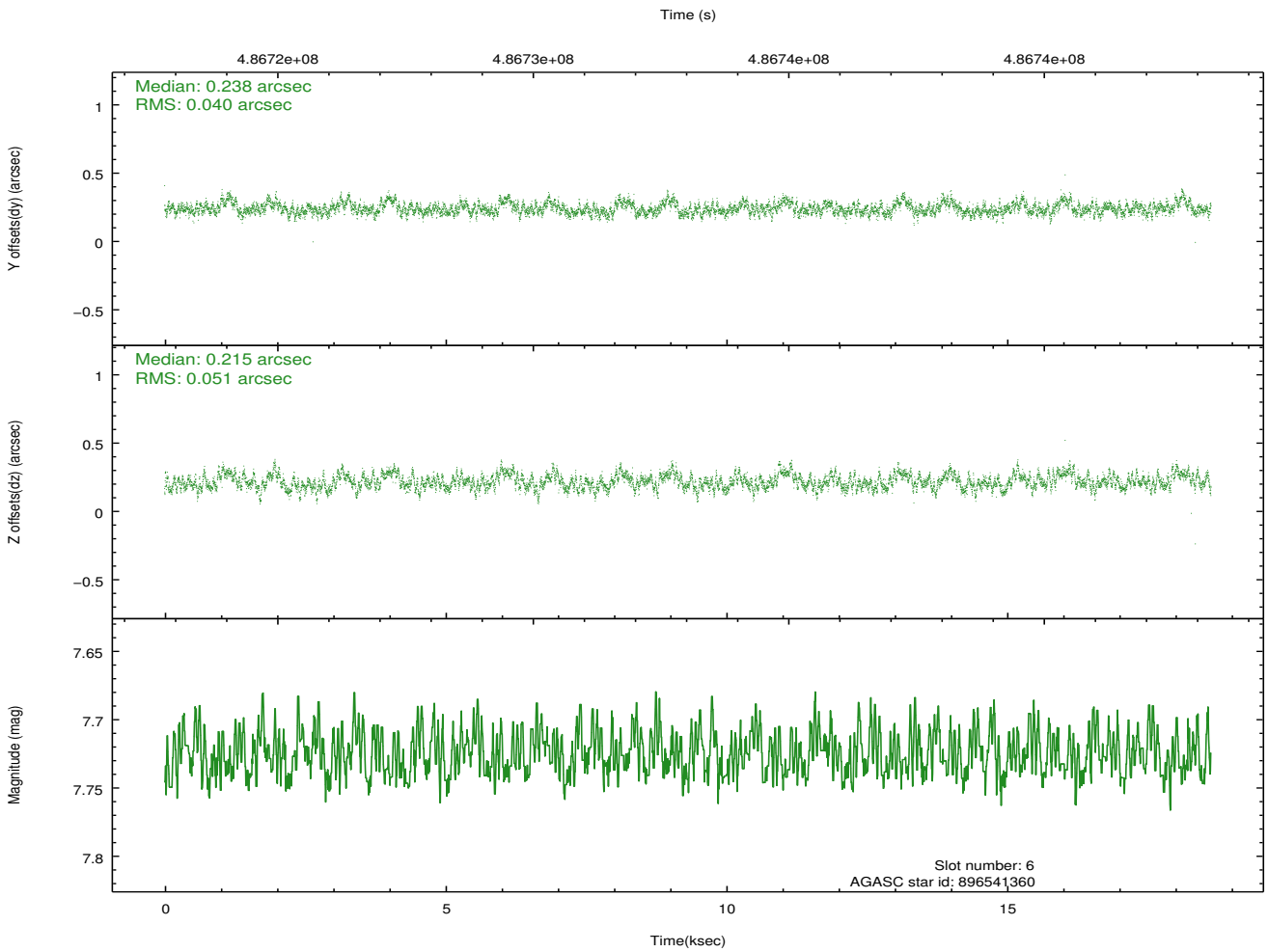
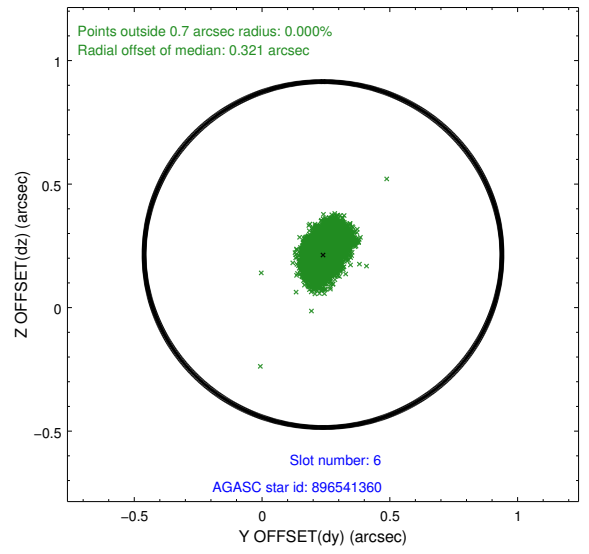
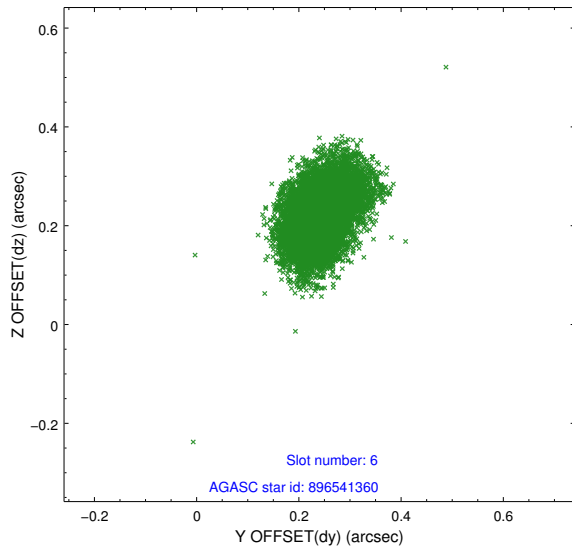
2.4.2 Slot 4



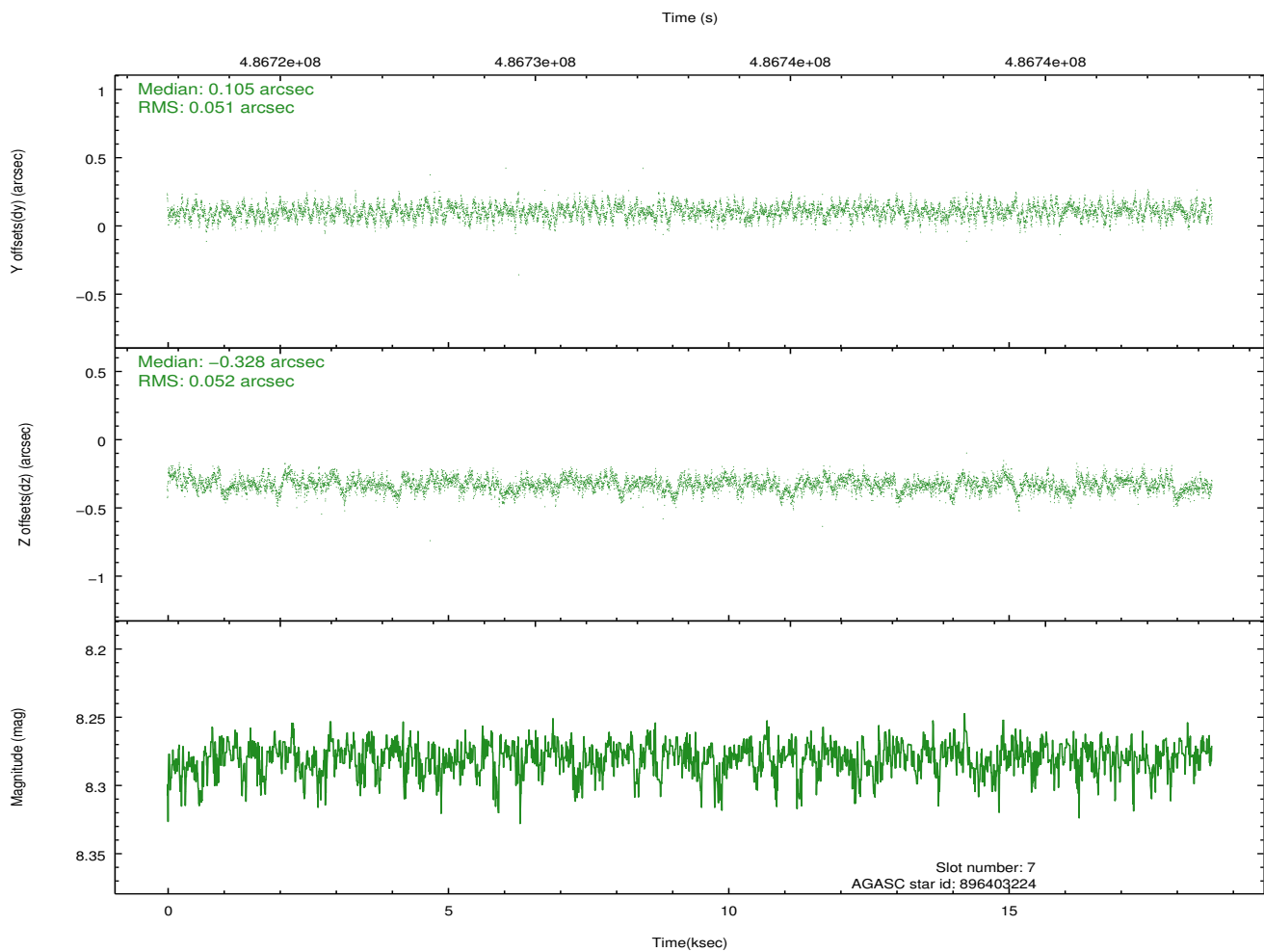
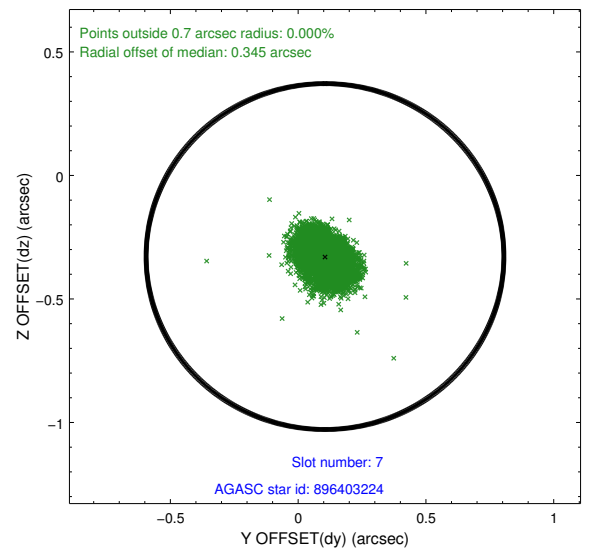
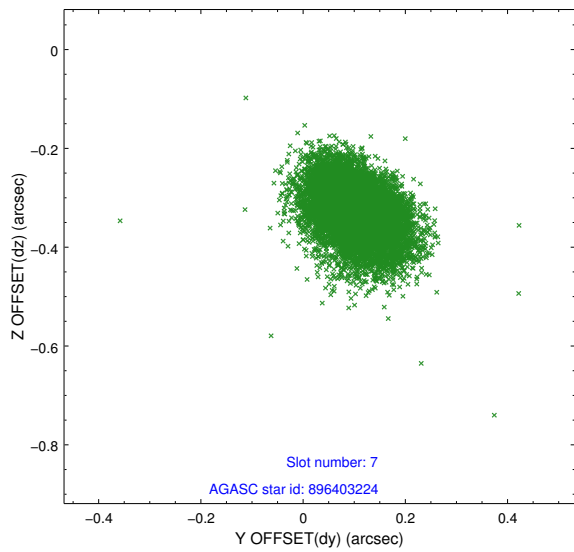
2.4.3 Slot 5



2.4.4 Slot 6

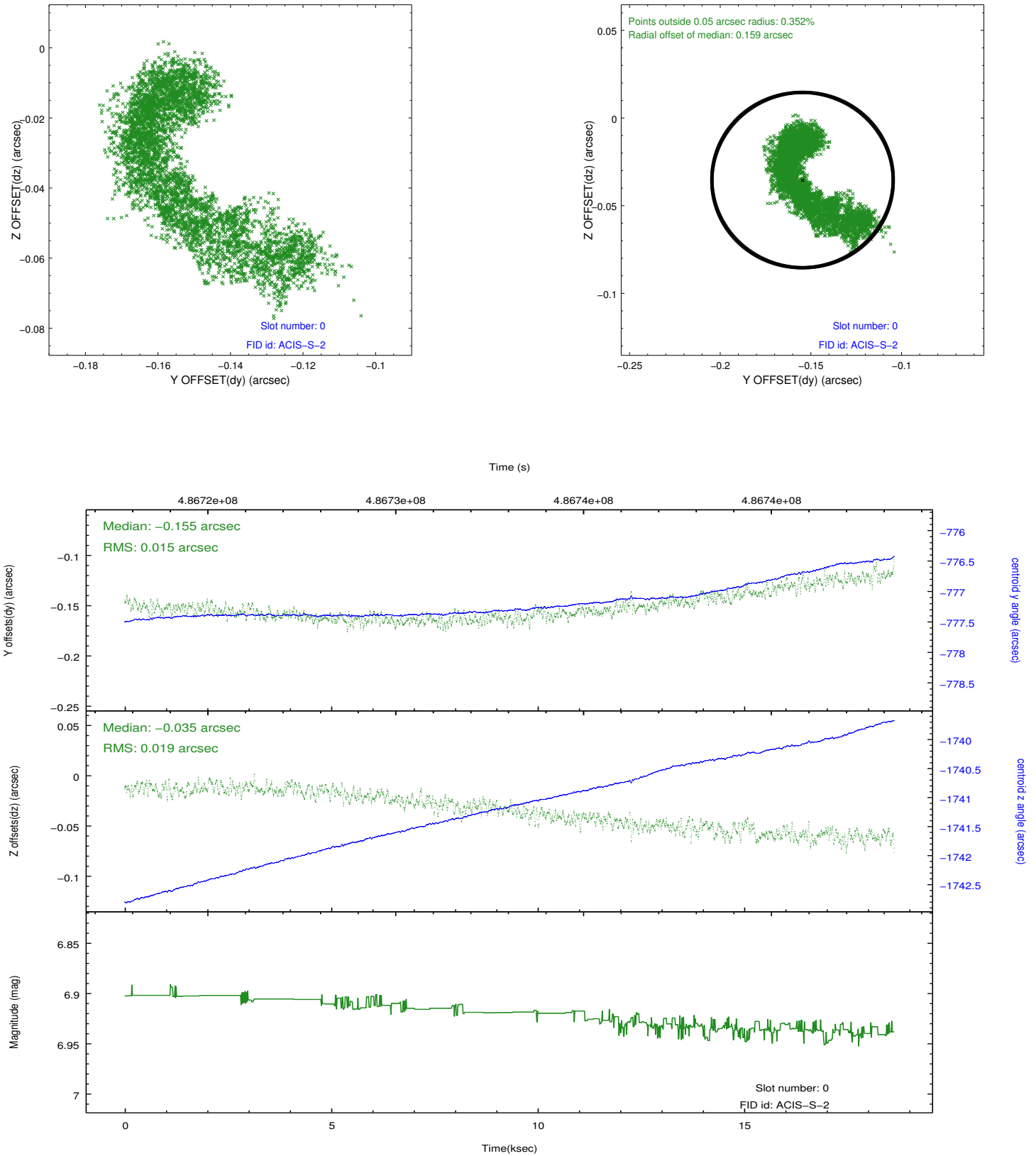


2.4.5 Slot 7

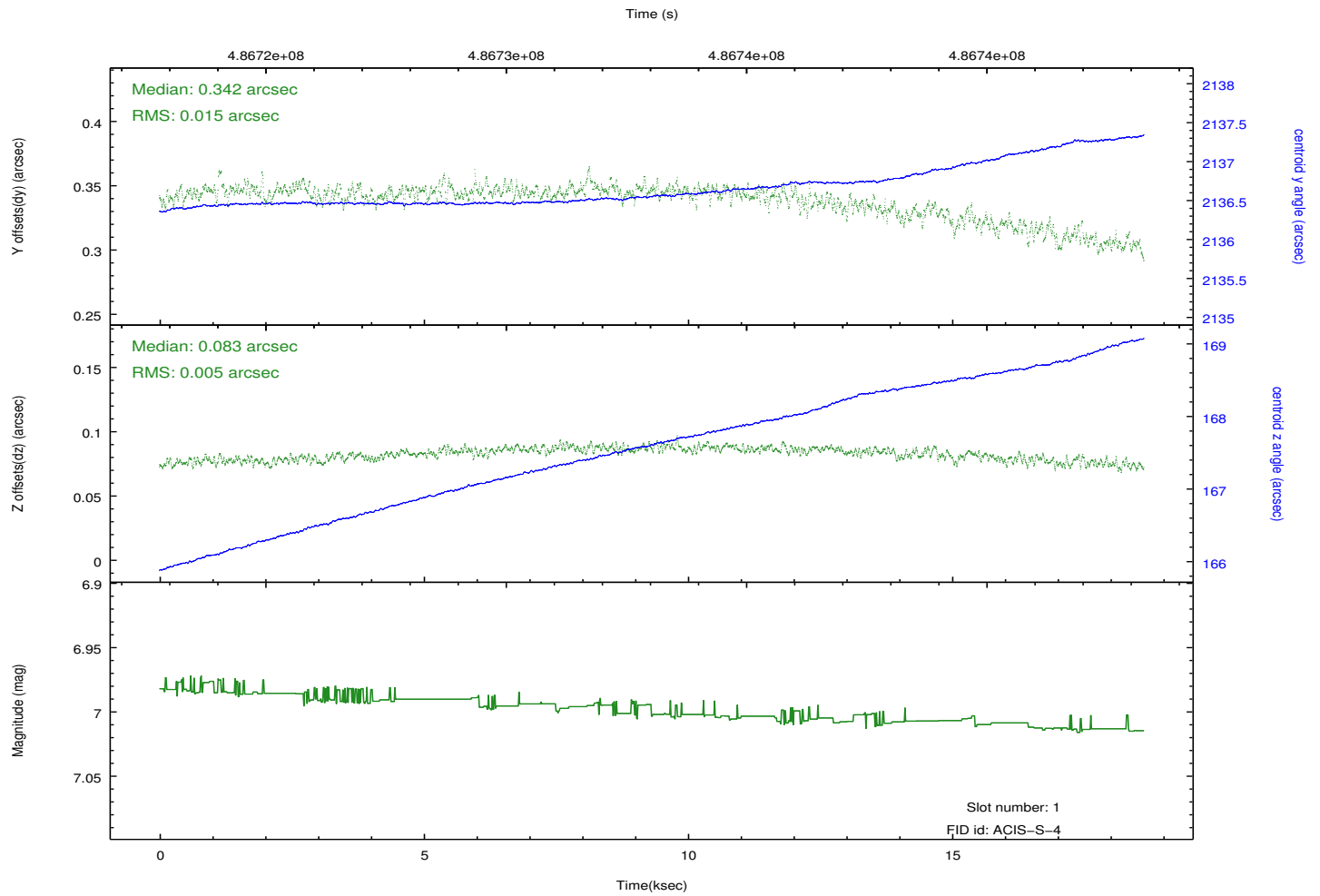
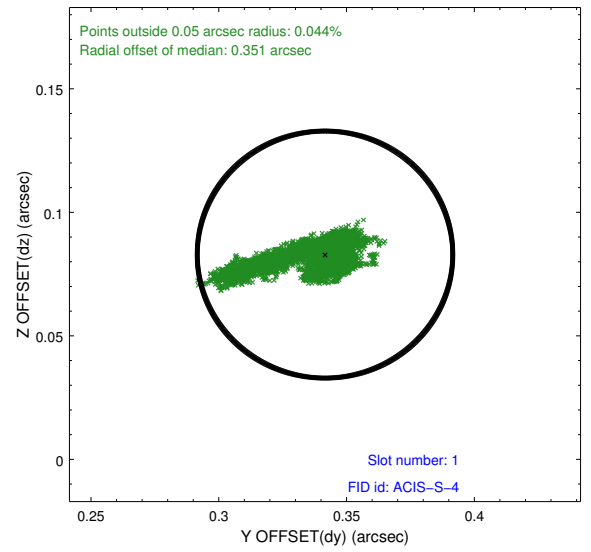
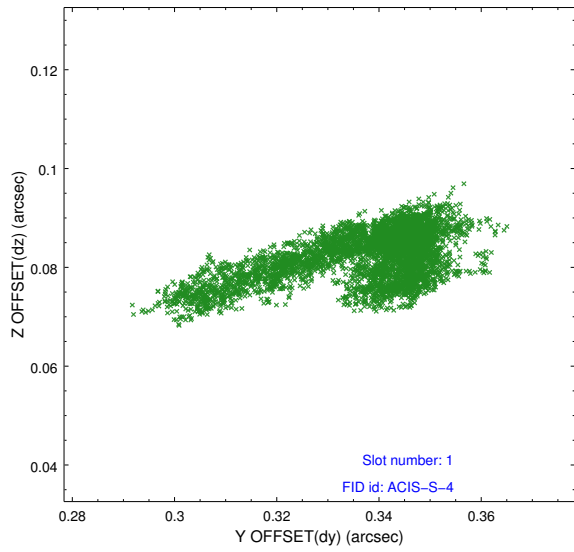


2.5 FID Slots

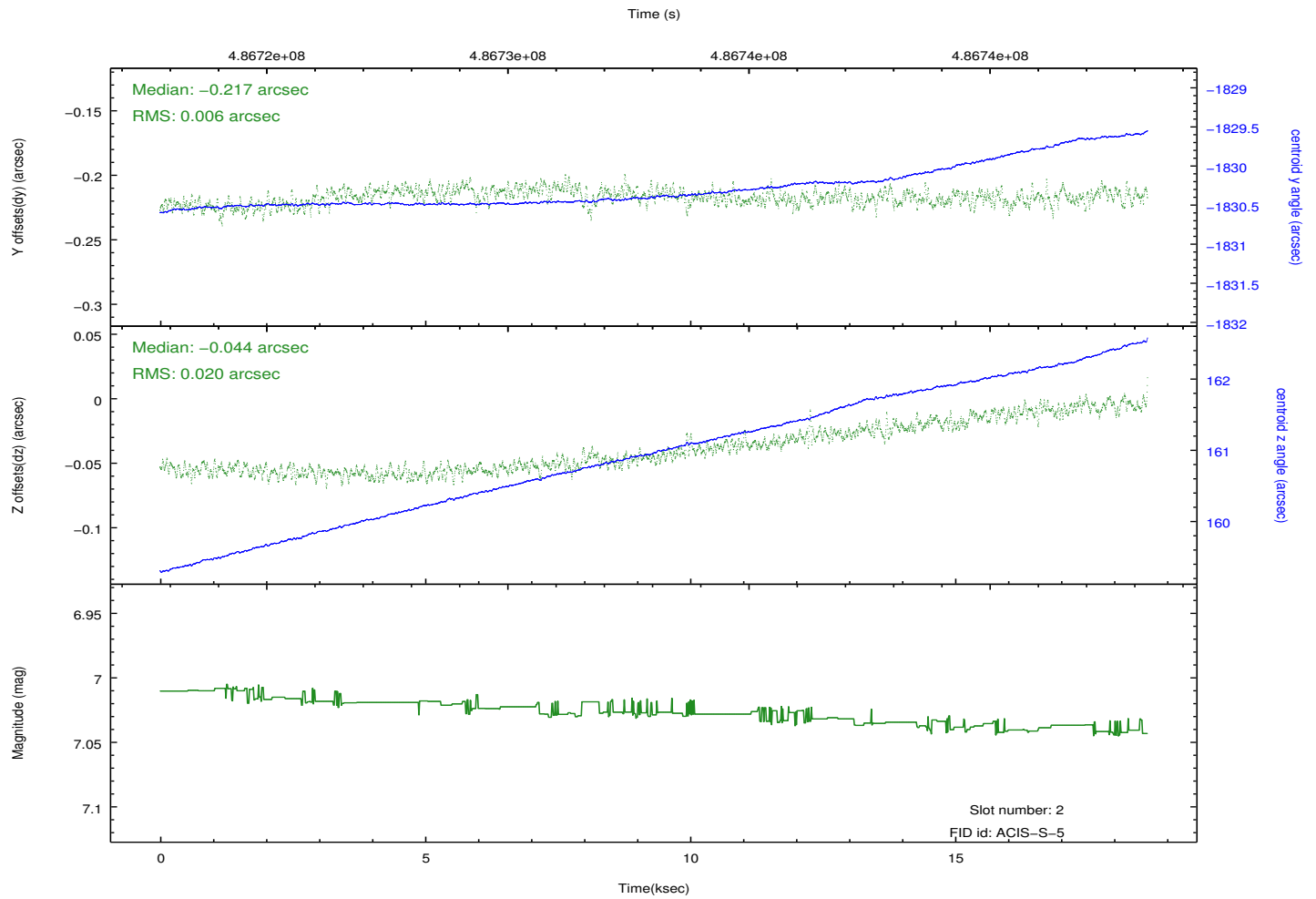
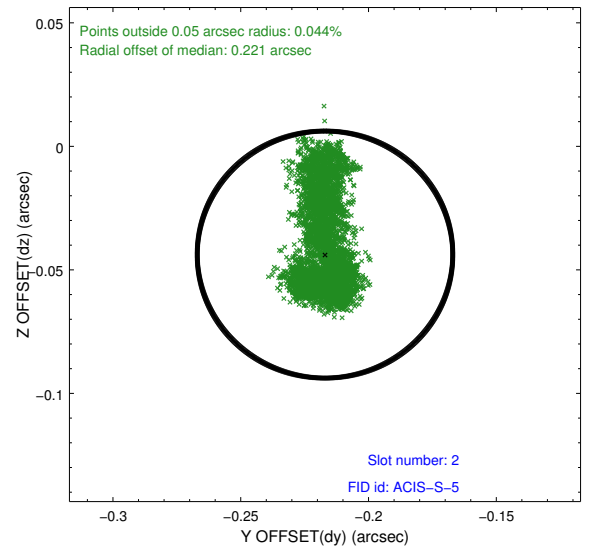
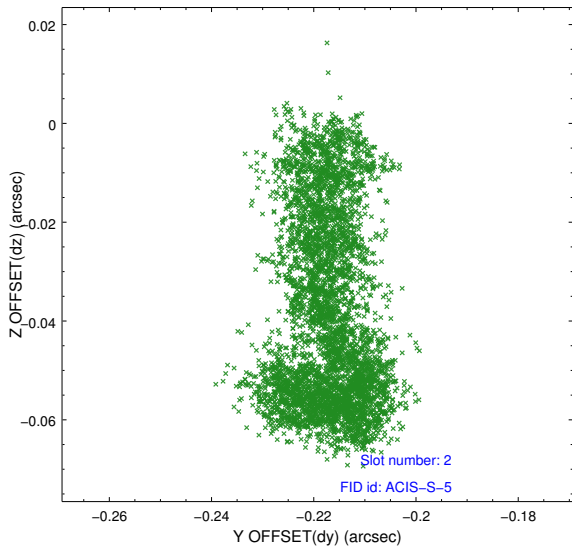
2.5.1 Slot 0



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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.567998893261

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.