

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12748 - L2 Version 2
Chandra X-Ray Center

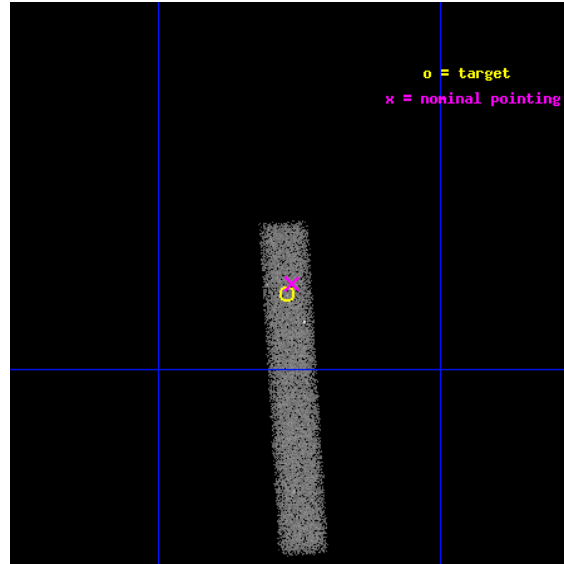
L2 Processing Date : Feb 4 2012

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1 Front

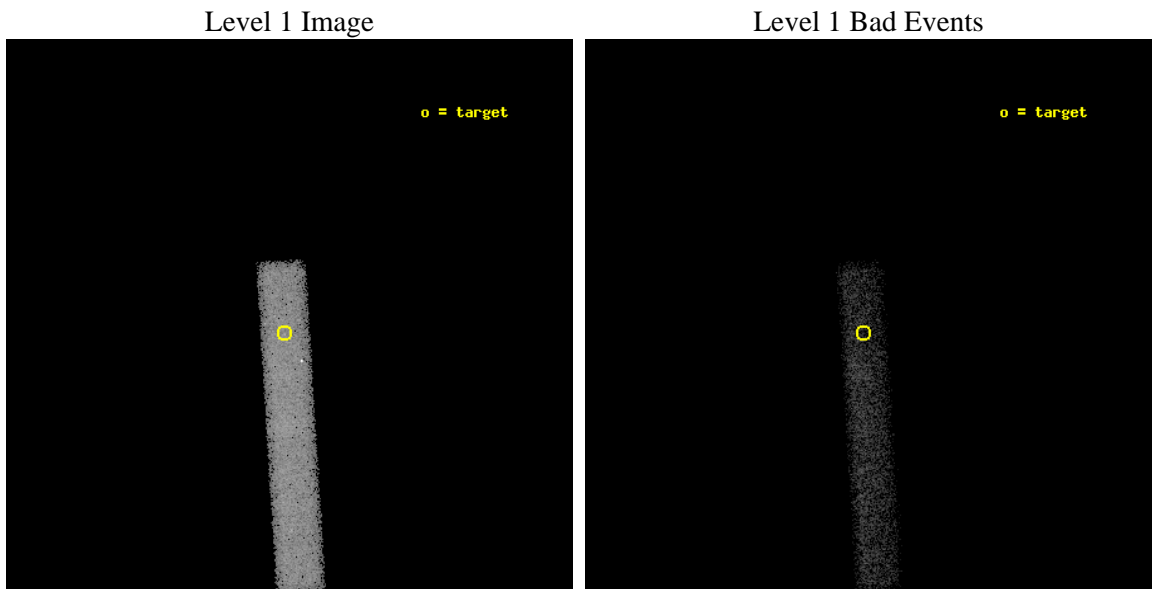
seq_num	702384	Sequence number
obs_id	12748	Observation id
title	SPTIZER DISCOVERS THE MOST LUMINOUS AGN IN A TRULY BULGELESS DISK GALAXY? THE CHANDRA VIEW OF NGC 4178	Proposal title
observer	Dr. Shobita Satyapal	Principal investigator
object	NGC 4178	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	183.193333	Observer's specified target RA [deg]
dec_targ	10.865833	Observer's specified target Dec [deg]
ra_nom	183.1909937325	Nominal RA [deg]
dec_nom	10.870101435855	Nominal Dec [deg]
roll_nom	86.468907778552	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40008.397615314	Sum of GTIs [s]
livetime	36285.504820709	Livetime [s]
ontime7	40008.397615314	Sum of GTIs [s]
l2events	22974	Number of level 2 events



2 OBI

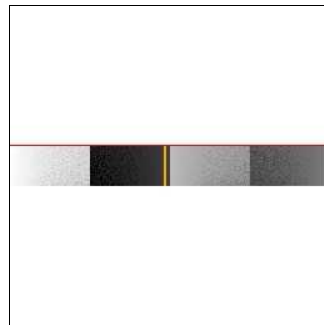
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	40008.397615314	Sum of GTIs [s]
caldbver	4.4.7	 	ontime7	40008.397615314	Sum of GTIs [s]
date	2012-02-04T20:47:39	Date and time of file creation	l1events	46736	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

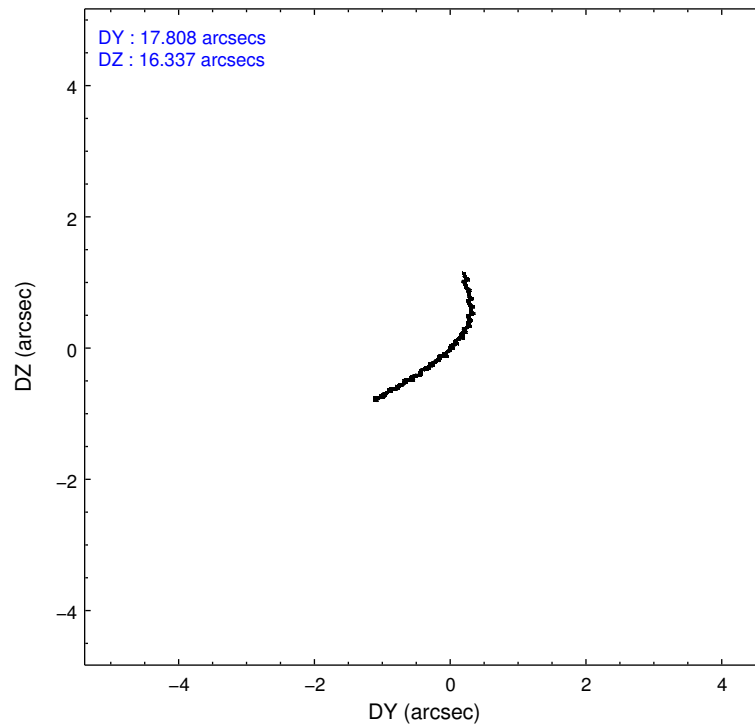
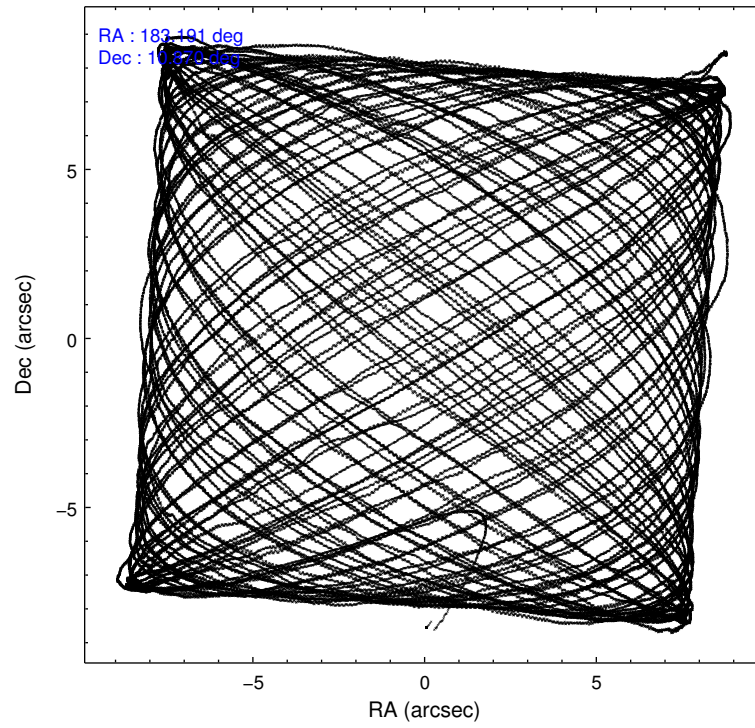
	ccd 7
level 1 events	46736
rejected events	22717
rejected %	48%

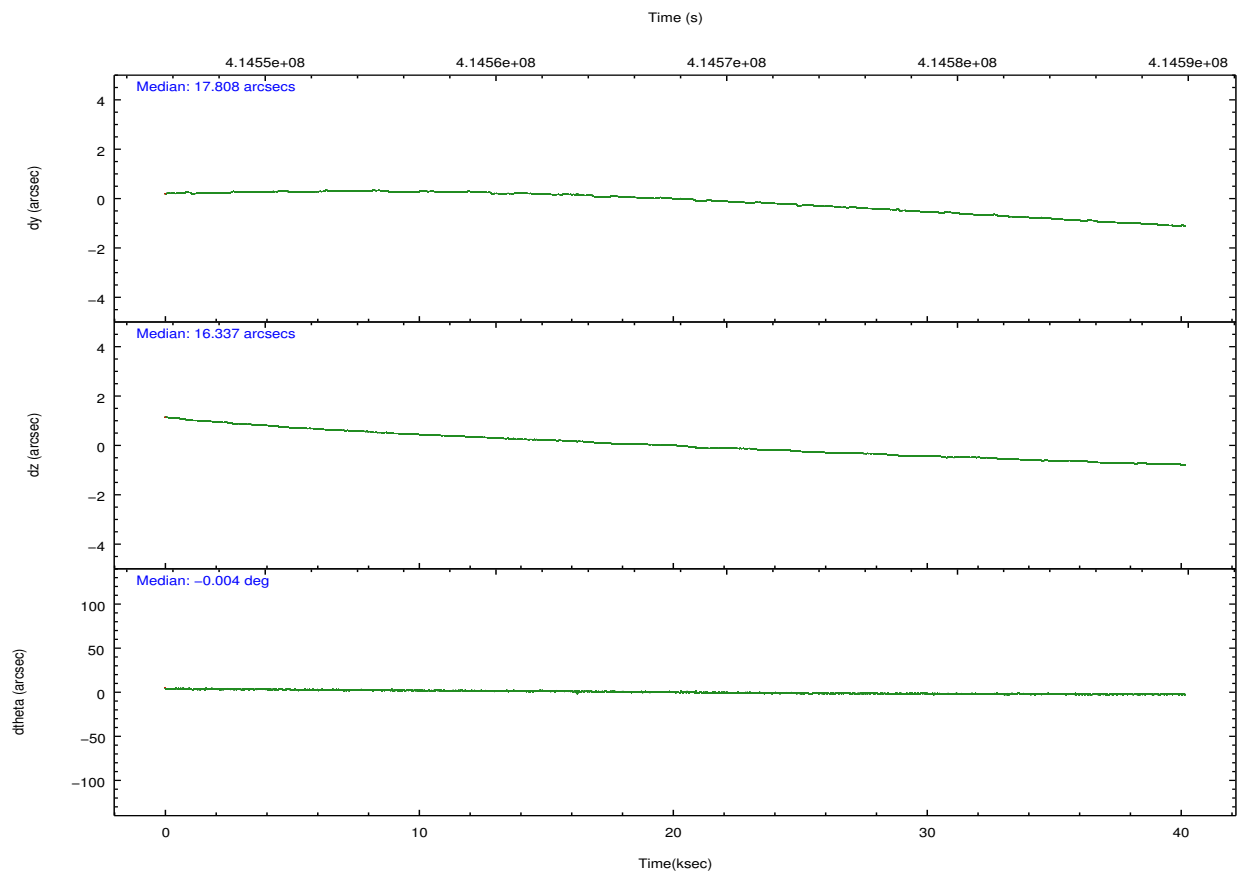
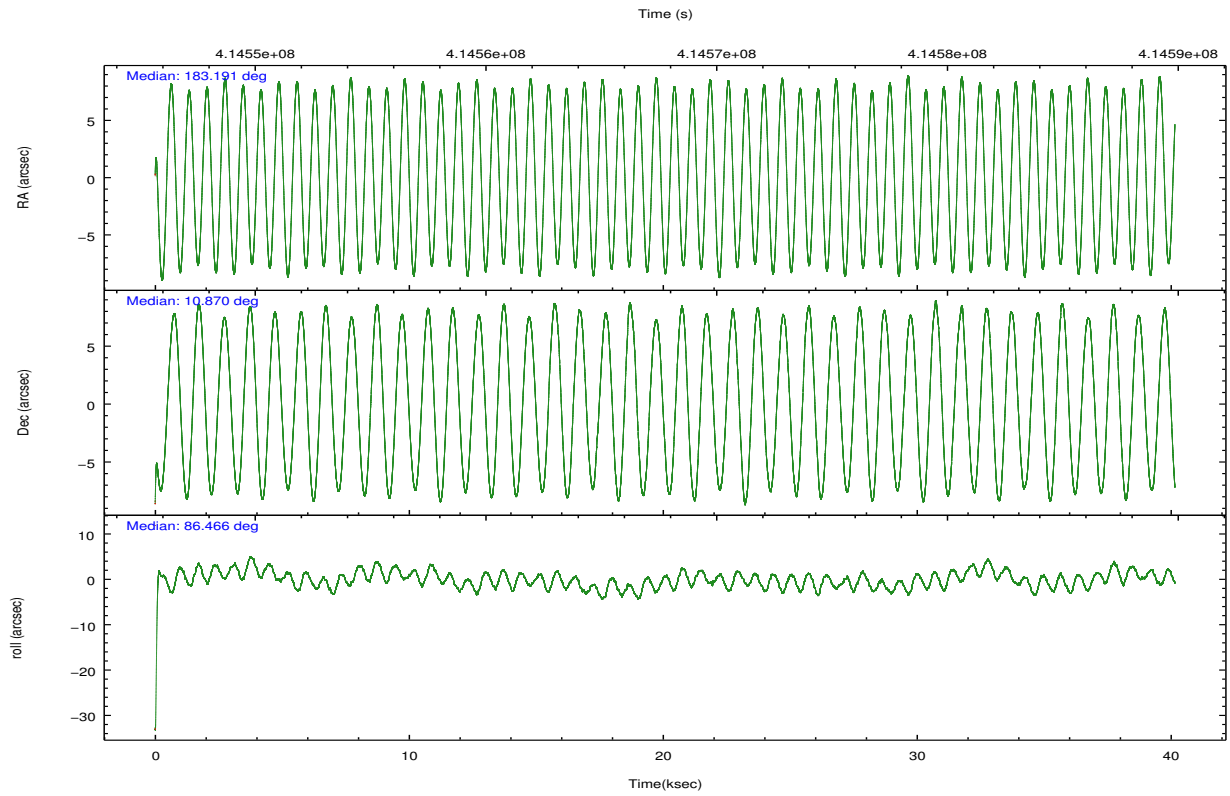
	ccd 7
grade 0 events	2567
	5%
grade 1 events	76
	0%
grade 2 events	4670
	9%
grade 3 events	3251
	6%
grade 4 events	3148
	6%
grade 5 events	4791
	10%
grade 6 events	10383
	22%
grade 7 events	17850
	38%

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	183.203750	183.1909937325045	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	10.845798	10.87010143585451	Subarray start row	449	449
[deg] Pointing Roll	86.309883	86.46890777855195	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)	414547828.184000	414546891.05848			
Observation start date	2011-02-20T00:09:22	2011-02-19T23:54:51			
[s] Observation end time (MET)	414587828.184000	414588780.76065			
Observation end date	2011-02-20T11:16:02	2011-02-20T11:33:00			
Read mode	TIMED	TIMED			

2.3 Aspect



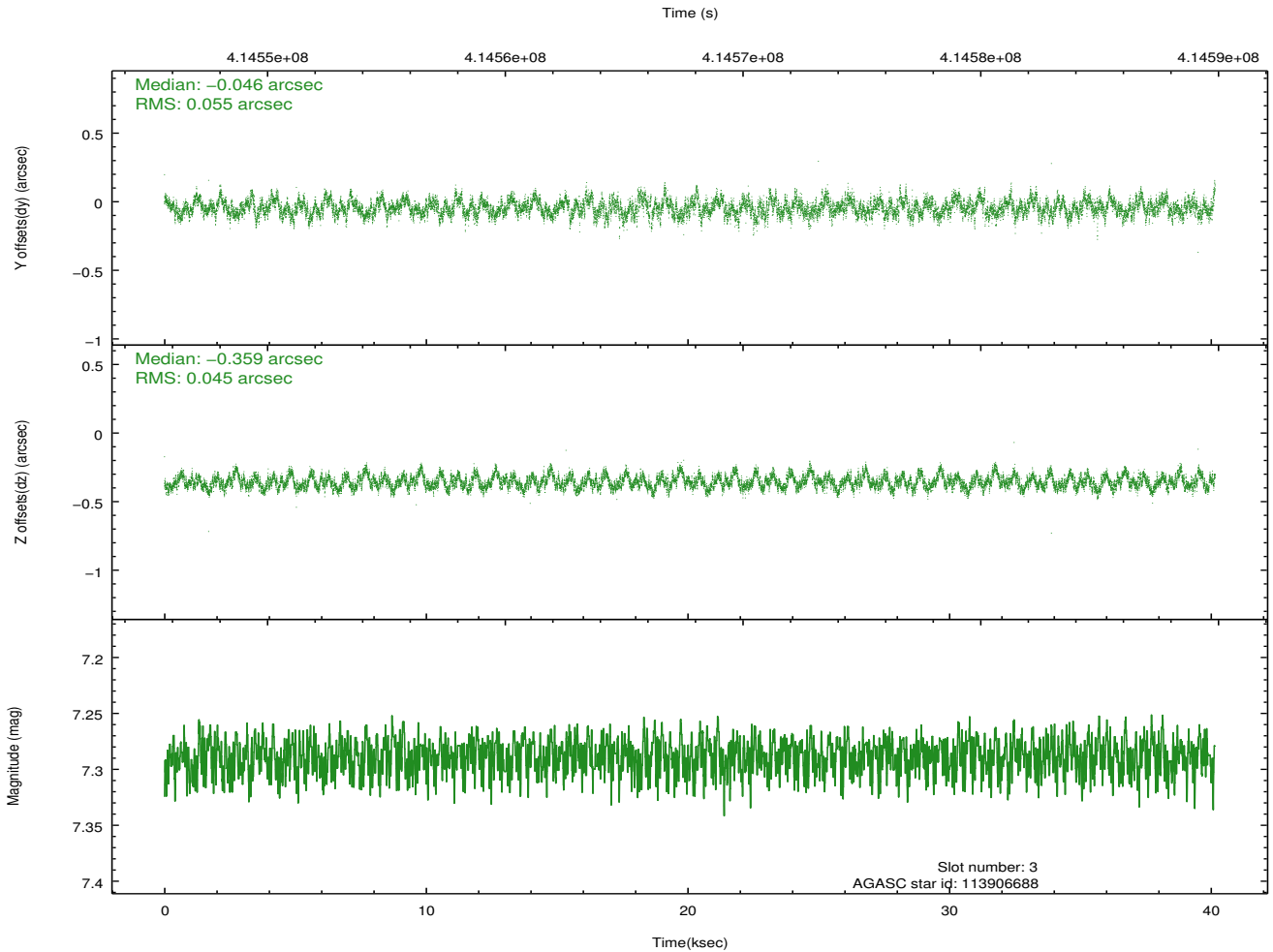
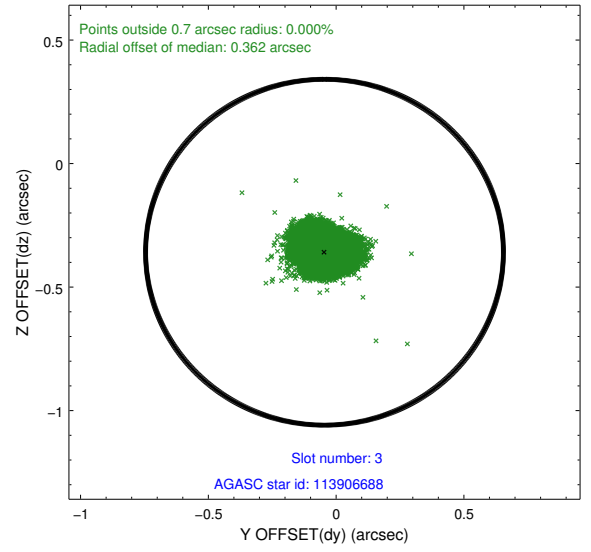
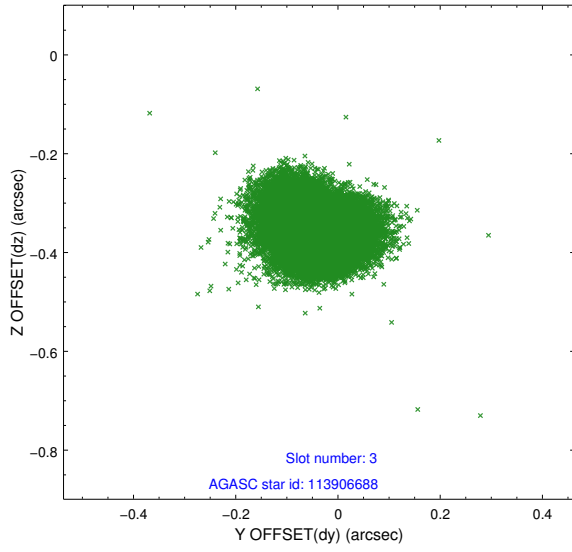


Slot Statistics

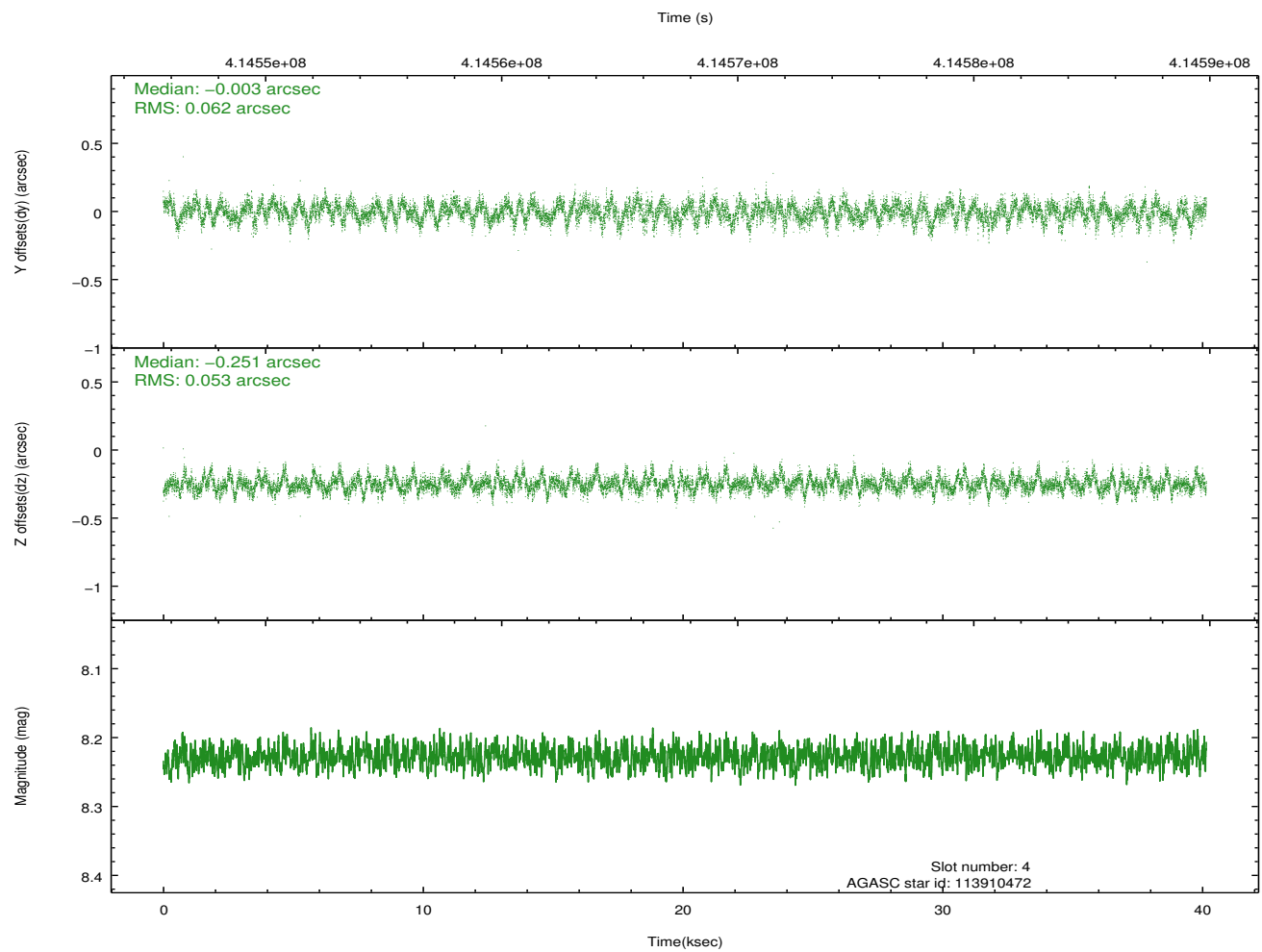
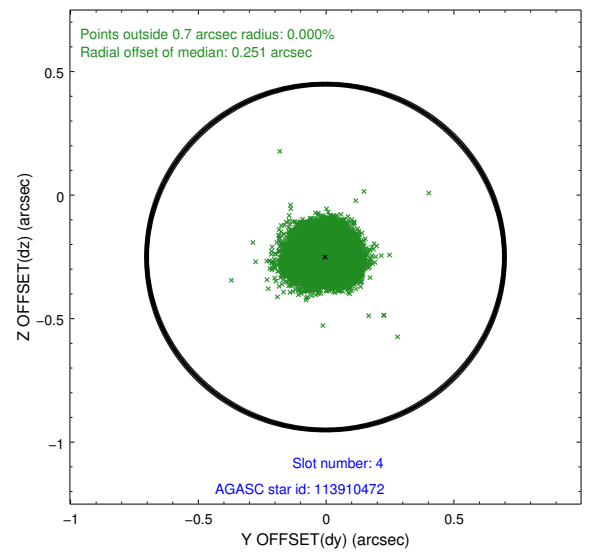
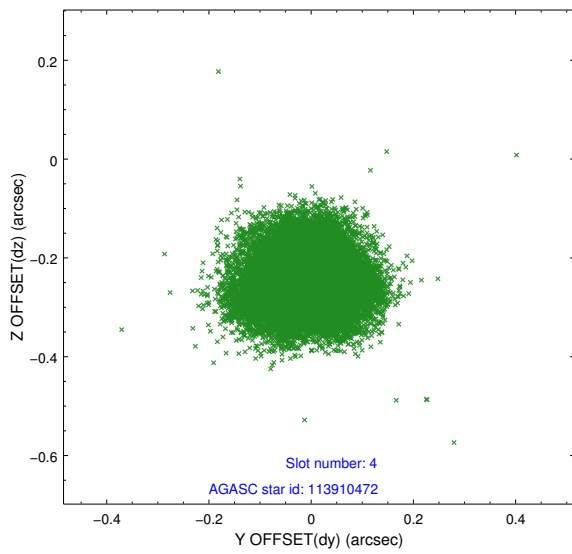
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.94	9795	-0.076	-0.011	0.018	0.027	0.000000	0.000000	-770.76	-1737.74
1	FID	ACIS-S-4	7.02	9795	0.186	0.040	0.011	0.022	0.000000	0.000000	2142.77	170.78
2	FID	ACIS-S-5	7.05	9792	-0.147	-0.020	0.025	0.046	0.000000	0.000000	-1823.65	164.41
3	GUIDE	113906688	7.29	19584	-0.046	-0.359	0.076	0.120	183.194115	11.111362	951.99	95.42
4	GUIDE	113910472	8.23	19576	-0.003	-0.251	0.087	0.139	182.994765	11.292167	1556.72	839.82
5	GUIDE	113910864	6.19	19589	0.149	0.169	0.086	0.146	183.358076	10.262342	-2060.34	-679.56
6	GUIDE	114825048	9.81	19476	0.068	0.327	0.200	0.325	183.904746	11.291802	1765.06	-2365.21
7	GUIDE	113910392	7.02	19586	-0.170	0.106	0.063	0.102	183.308697	11.516347	2433.11	-213.89

2.4 Star Slots

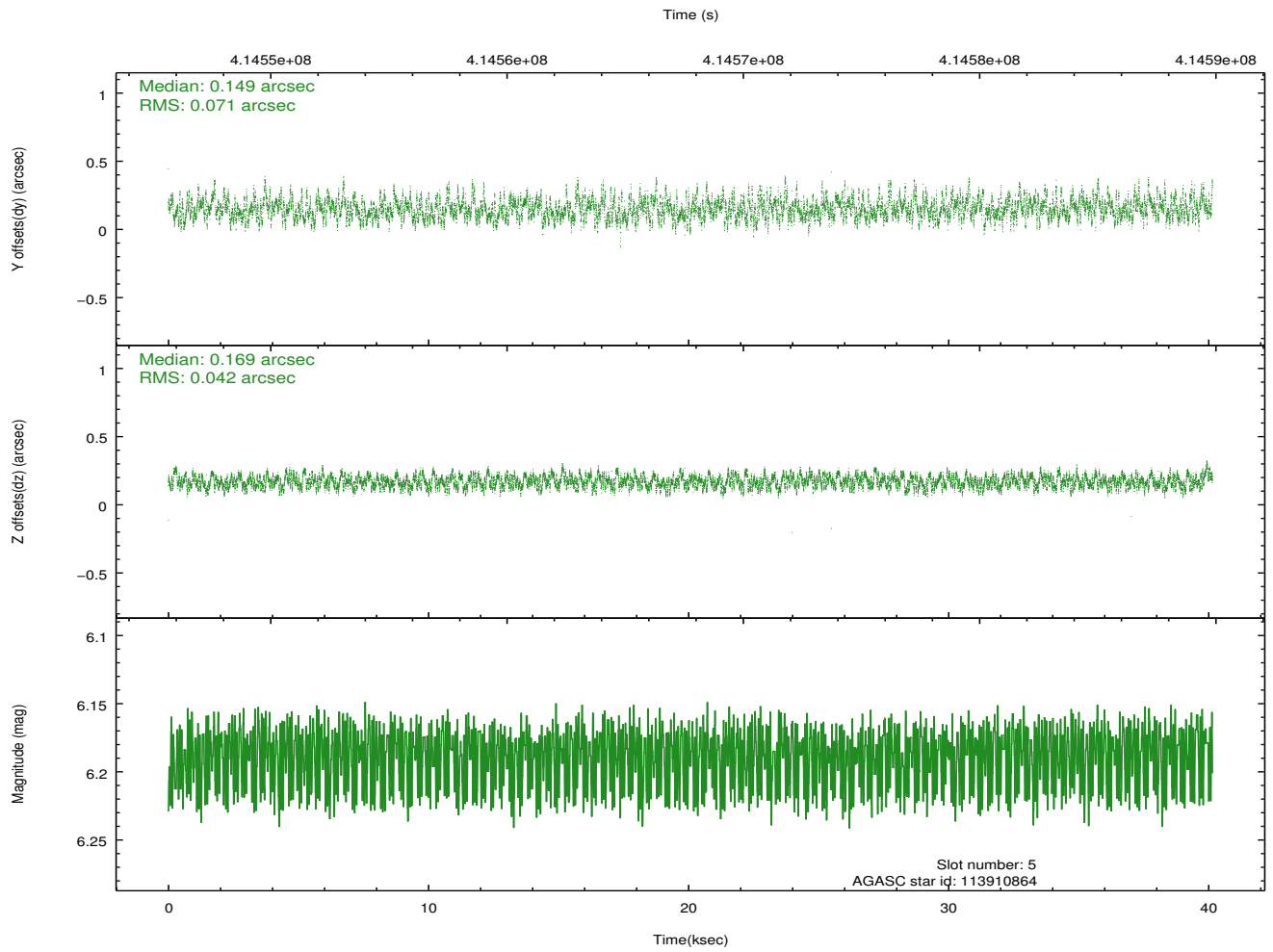
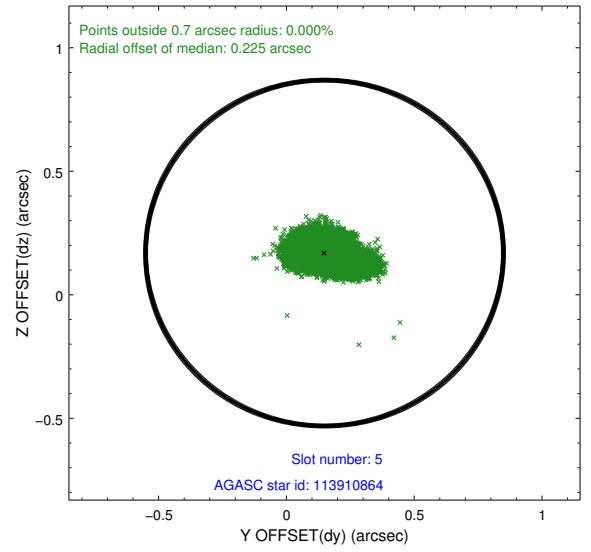
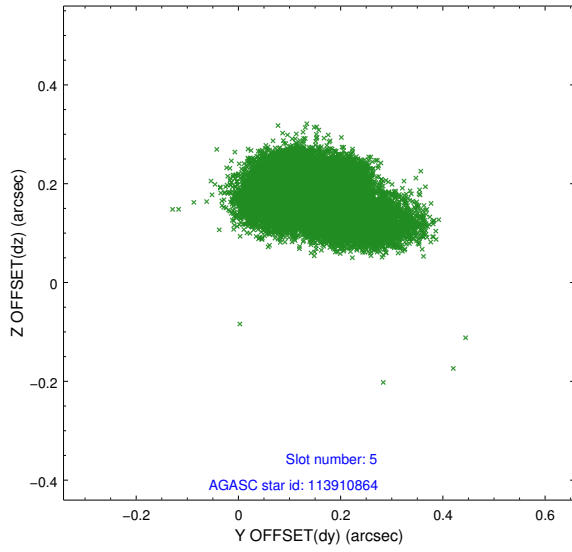
2.4.1 Slot 3



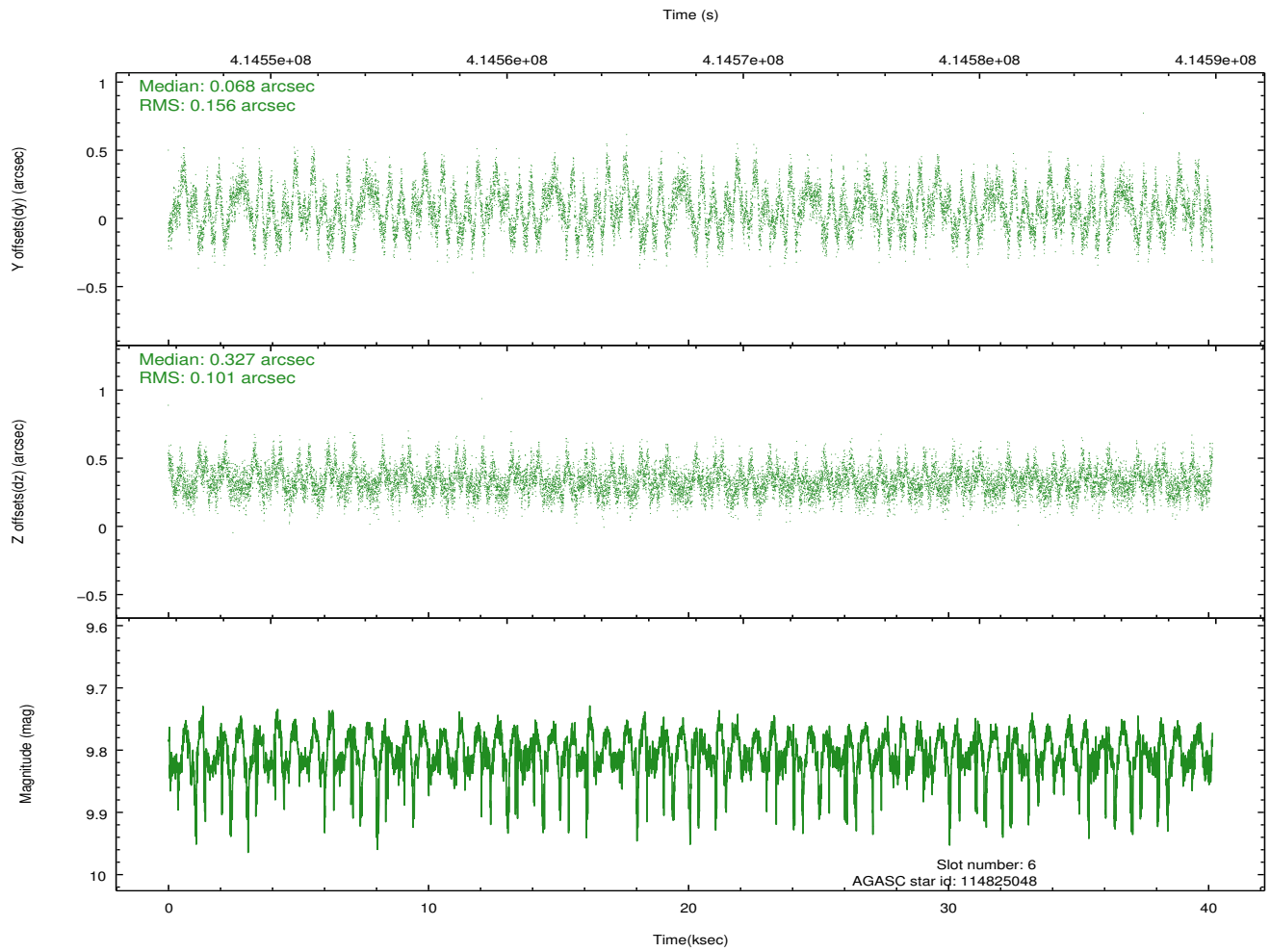
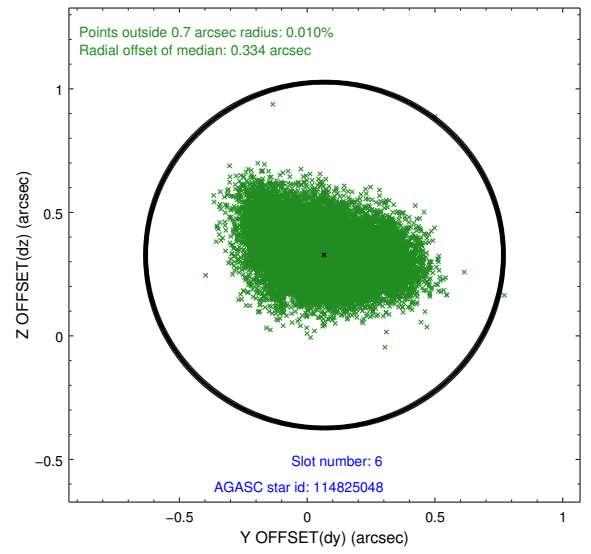
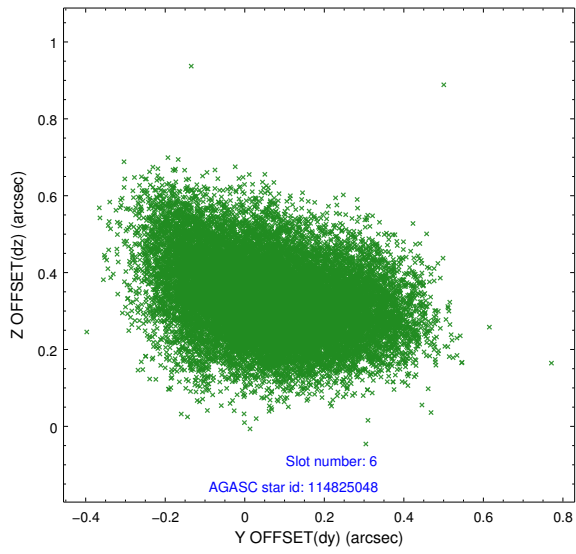
2.4.2 Slot 4



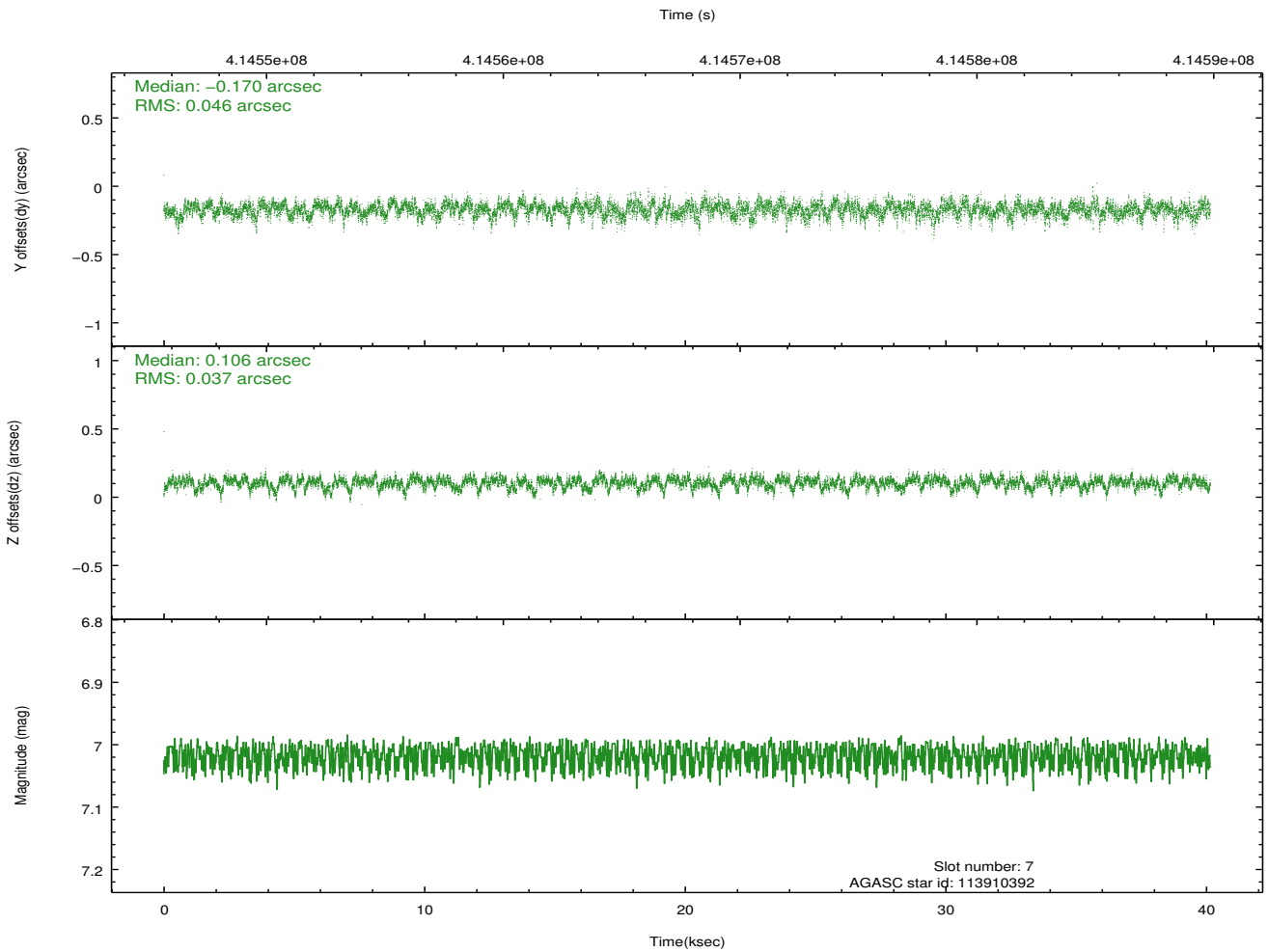
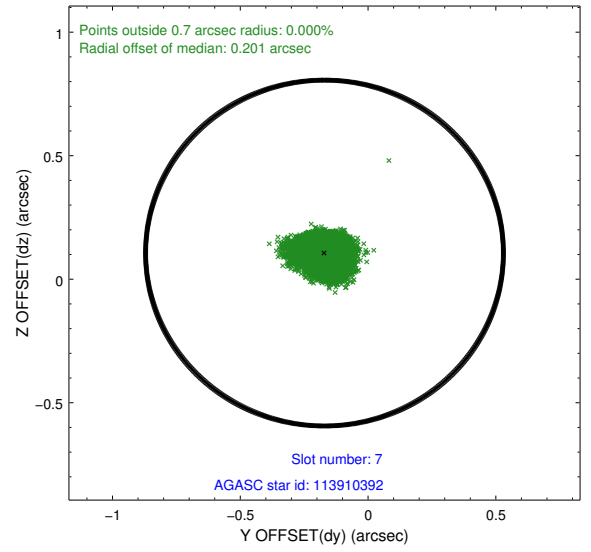
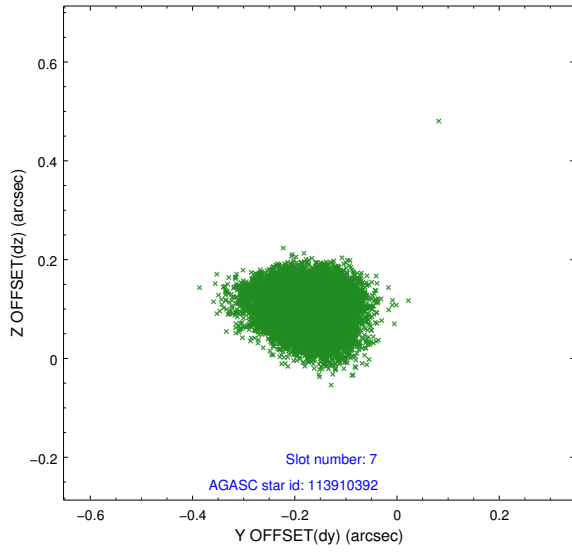
2.4.3 Slot 5



2.4.4 Slot 6

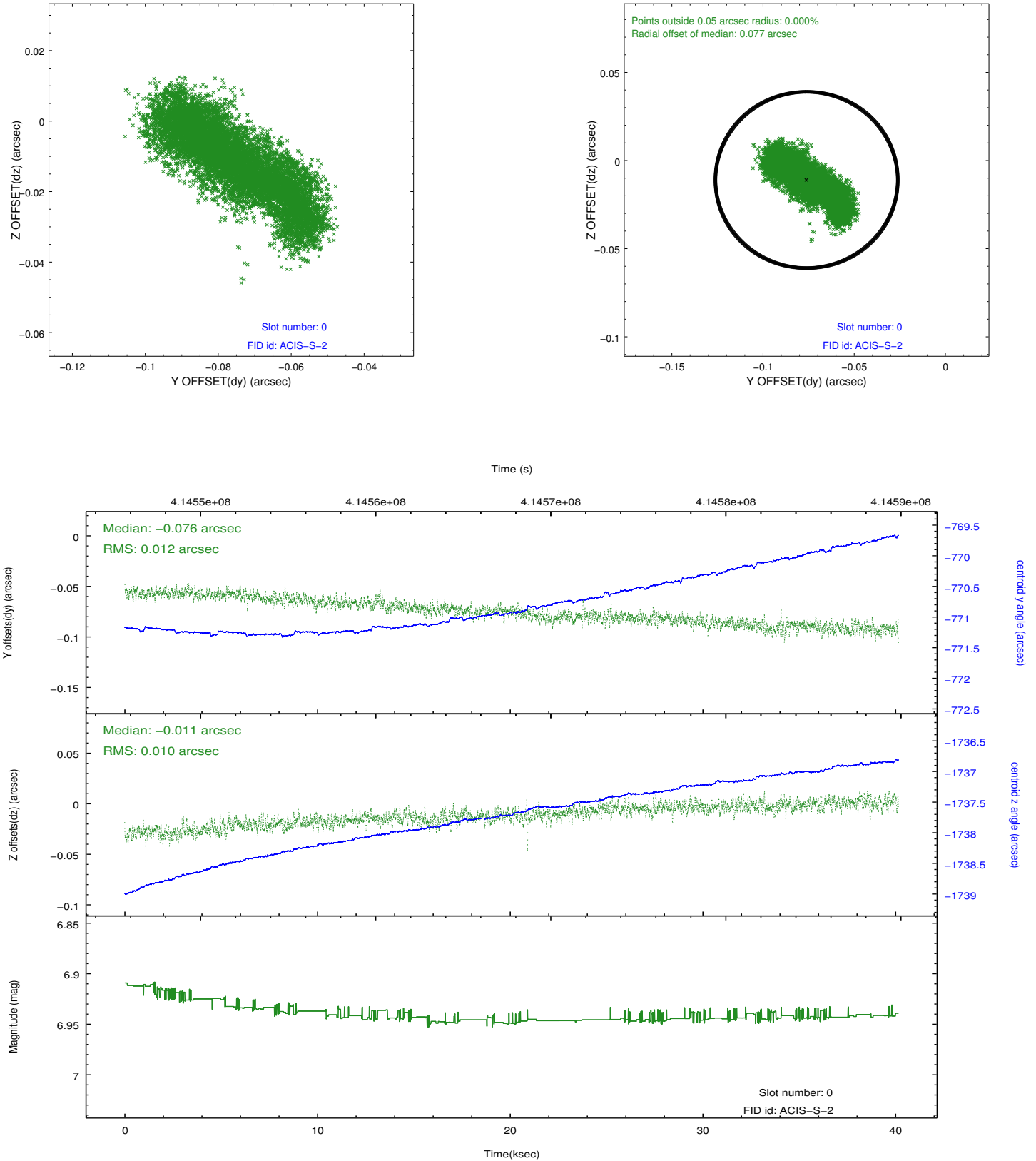


2.4.5 Slot 7

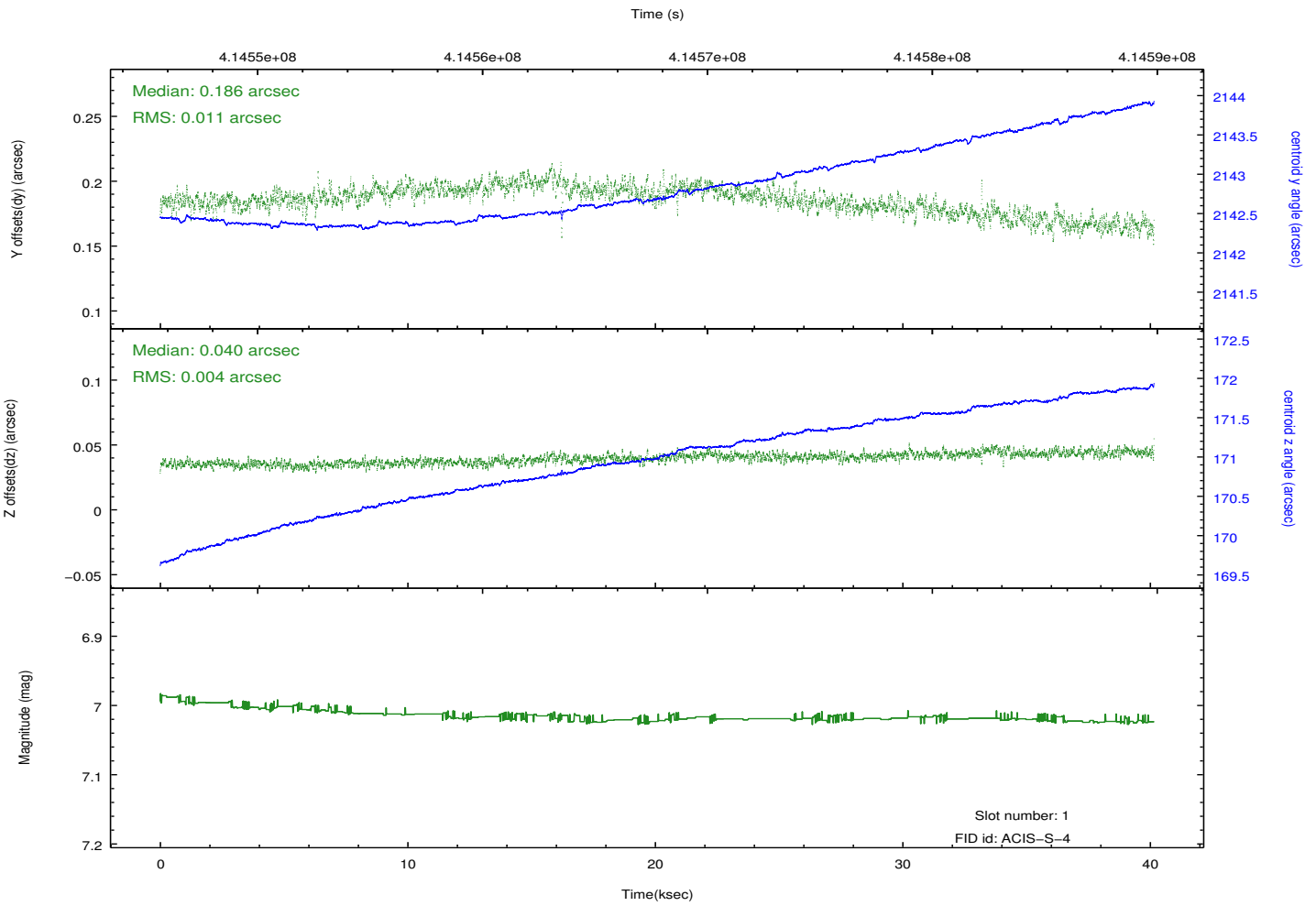
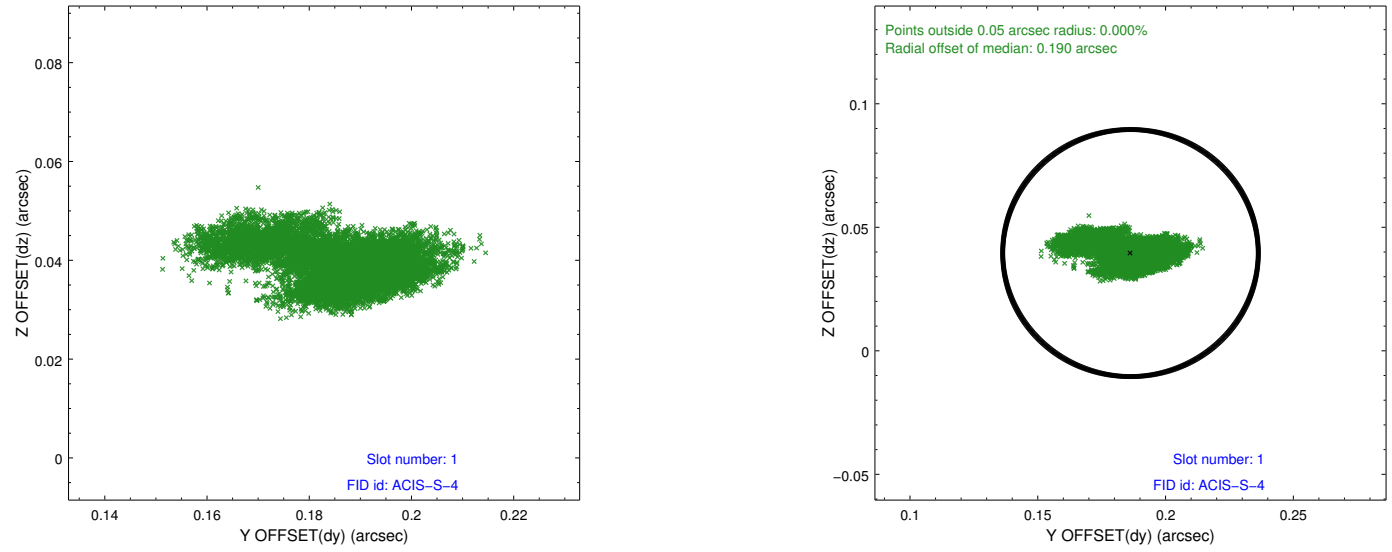


2.5 FID Slots

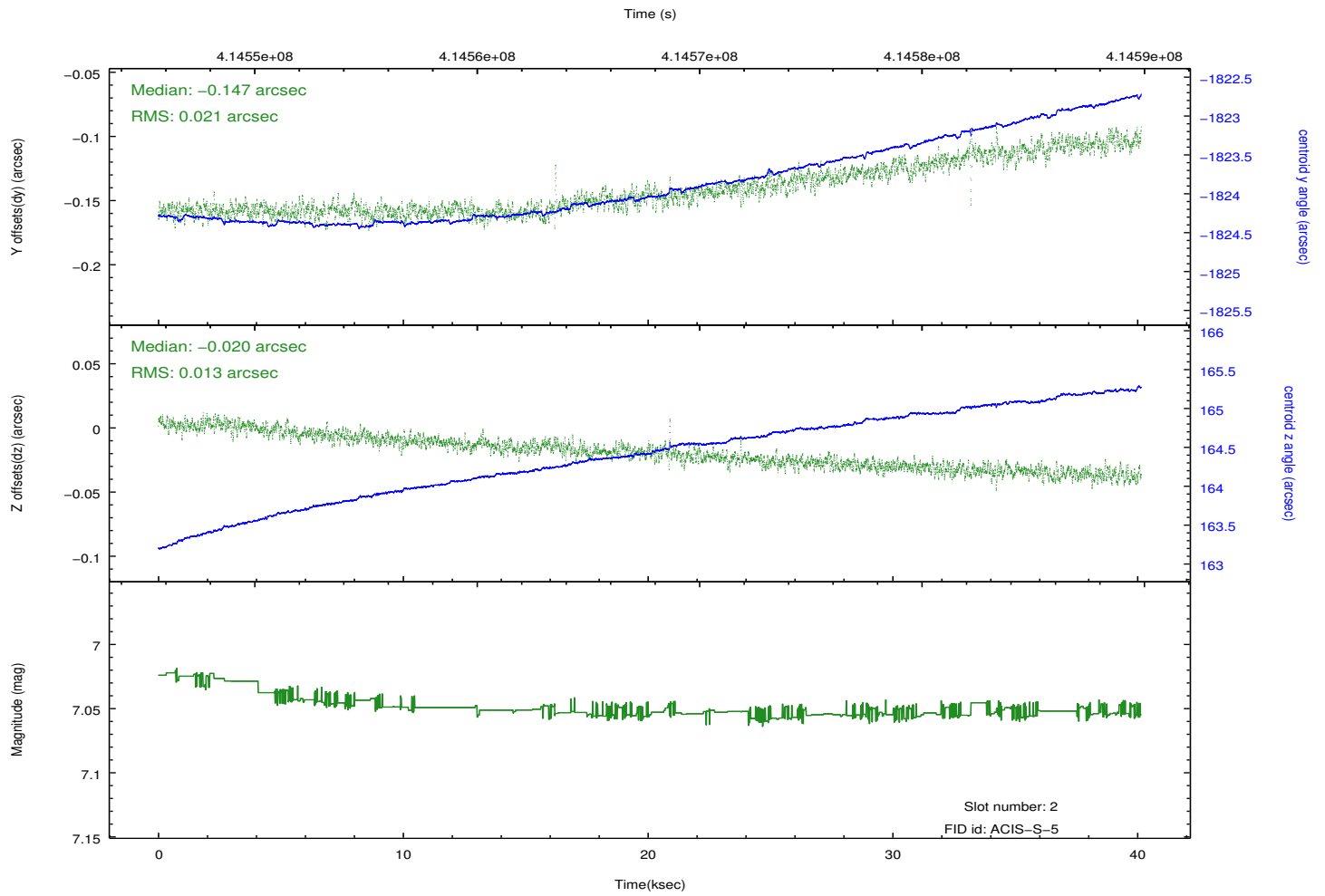
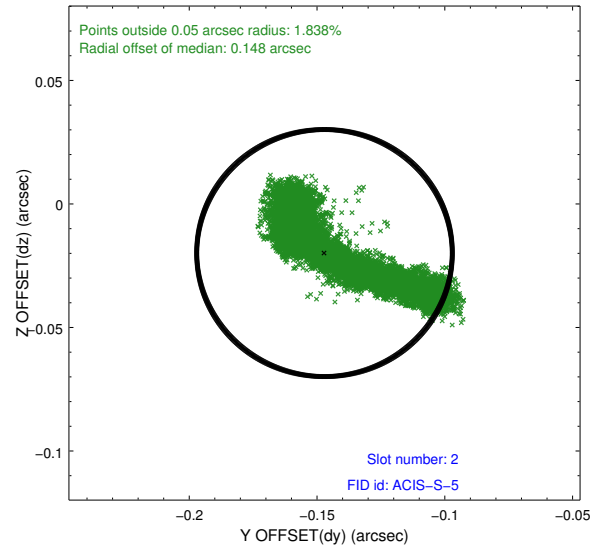
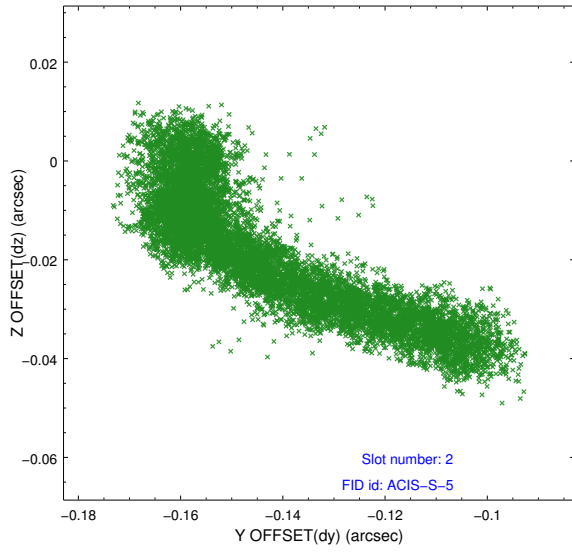
2.5.1 Slot 0



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)	2012.02.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.008397615314

A.2 Comments

The data for this observation have been processed using the 'EDSER' sub-pixel event-repositioning algorithm of Li et al. (2004, ApJ, 610, 1204). Small-scale features should become sharper for sources near the aim point. The improvement will be less noticeable for off-axis sources where the size of the point-spread function is comparable to or larger than the size of an ACIS pixel. To take full advantage of the improvement, images should be binned on spatial scales smaller than the size of an ACIS pixel. Note that, at present, the point-spread function has not been calibrated for data to which the EDSEr algorithm has been applied. If dither was disabled for the observation, then the algorithm can introduce artificial aliasing effects on spatial scales smaller than a pixel. If you would prefer to use no sub-pixel adjustment or to apply a coordinate randomization, then use `acis_process_events` to reprocess the data with the parameter `pix_adj=NONE` or `RANDOMIZE`, respectively.