

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16432 - L2 Version 2
Chandra X-Ray Center

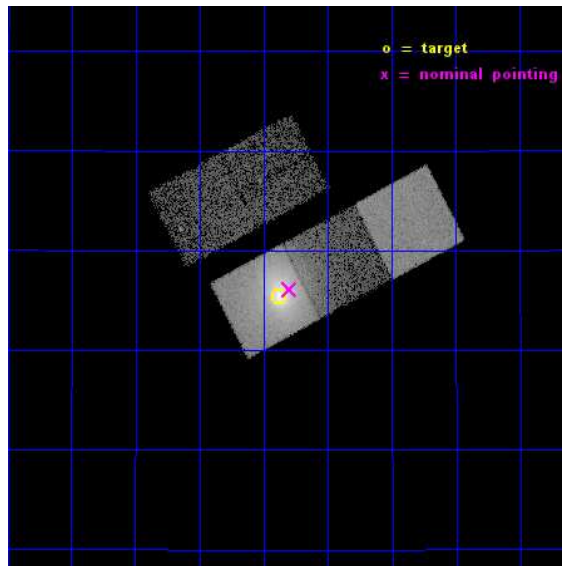
L2 Processing Date : Dec 10 2014

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1 Front

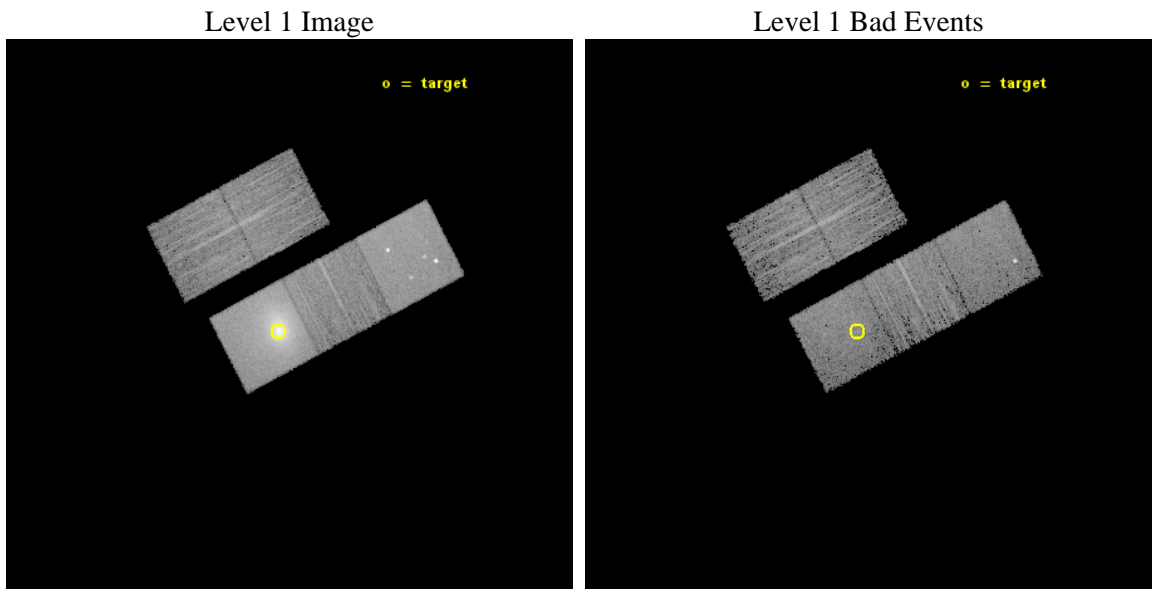
seq_num	890079	Sequence number
obs_id	16432	Observation id
title	AO-15 Calibration Observations of A1795	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.19994855771	Nominal RA [deg]
dec_nom	26.601968229108	Nominal Dec [deg]
roll_nom	152.28782956366	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10068.800077438	Sum of GTIs [s]
livetime	9937.2437918838	Livetime [s]
ontime2	10062.36317116	Sum of GTIs [s]
ontime3	10068.686231971	Sum of GTIs [s]
ontime5	10068.768311977	Sum of GTIs [s]
ontime6	10068.727271974	Sum of GTIs [s]
ontime7	10068.800077438	Sum of GTIs [s]
l2events	177254	Number of level 2 events



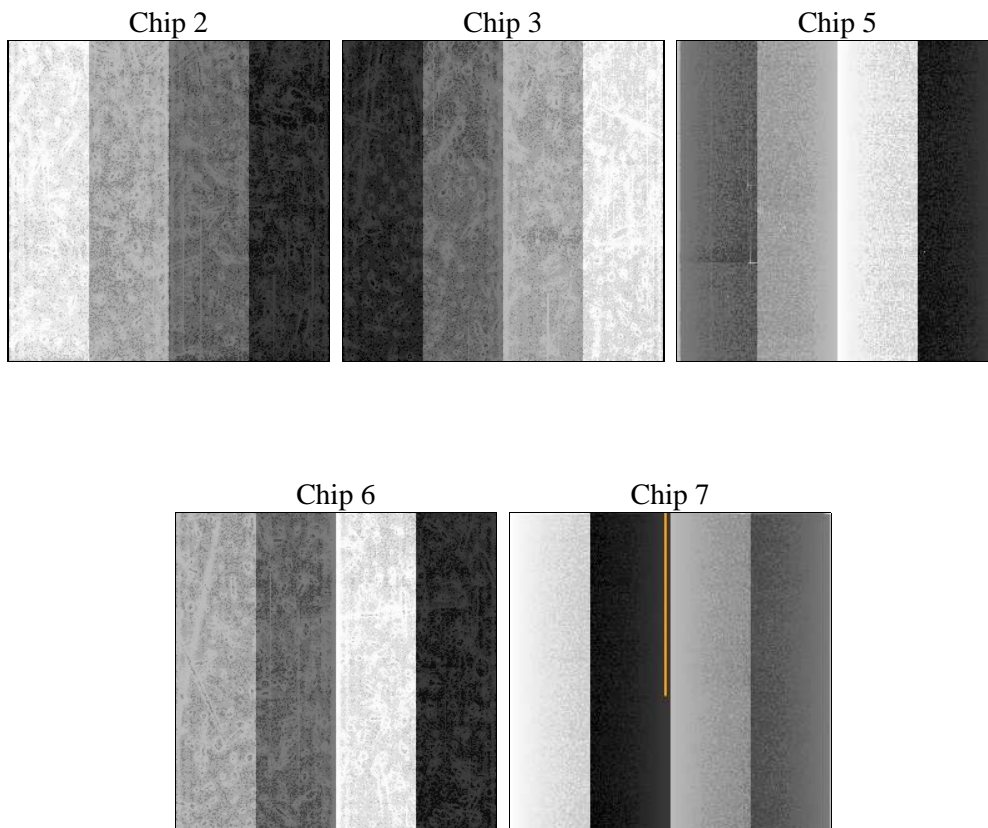
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



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	10068.800077438	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	10062.363171116	Sum of GTIs [s]
date	2014-12-10T18:50:19	Date and time of file creation	ontime3	10068.686231971	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	10068.768311977	Sum of GTIs [s]
			ontime6	10068.727271974	Sum of GTIs [s]
			ontime7	10068.800077438	Sum of GTIs [s]
			l1events	395641	Number of level 1 events

2.1.4 Events

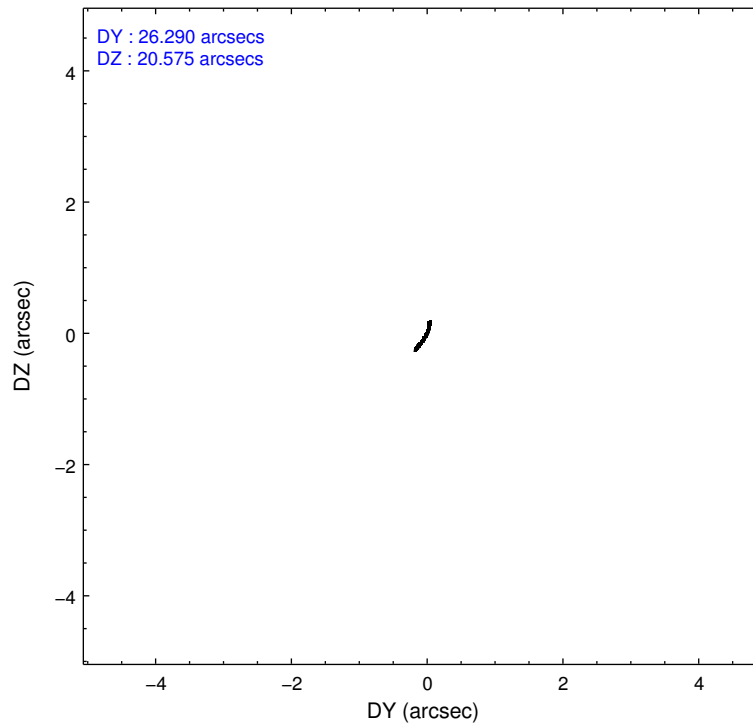
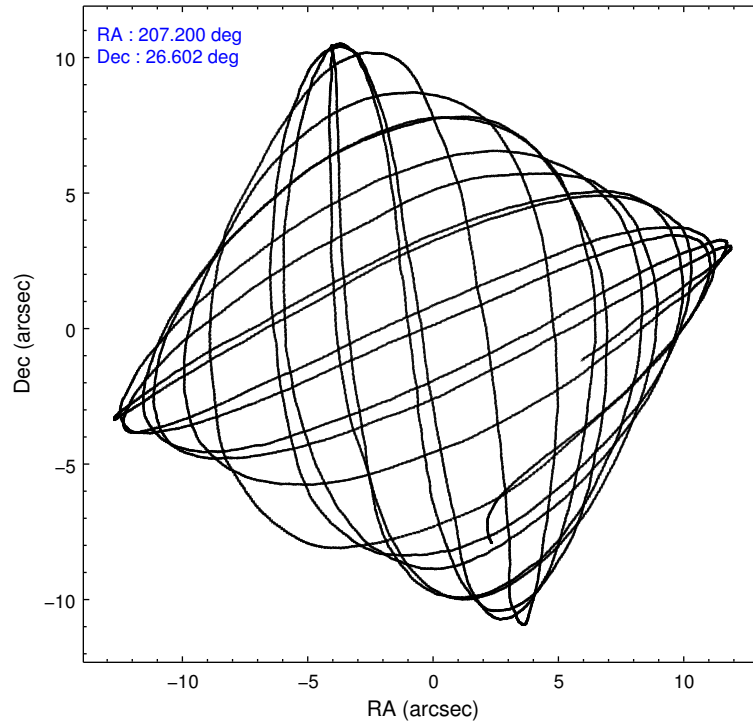
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	48390	47154	86252	54809	159036
rejected events	42124	41159	43778	43246	38459
rejected %	87%	87%	50%	78%	24%

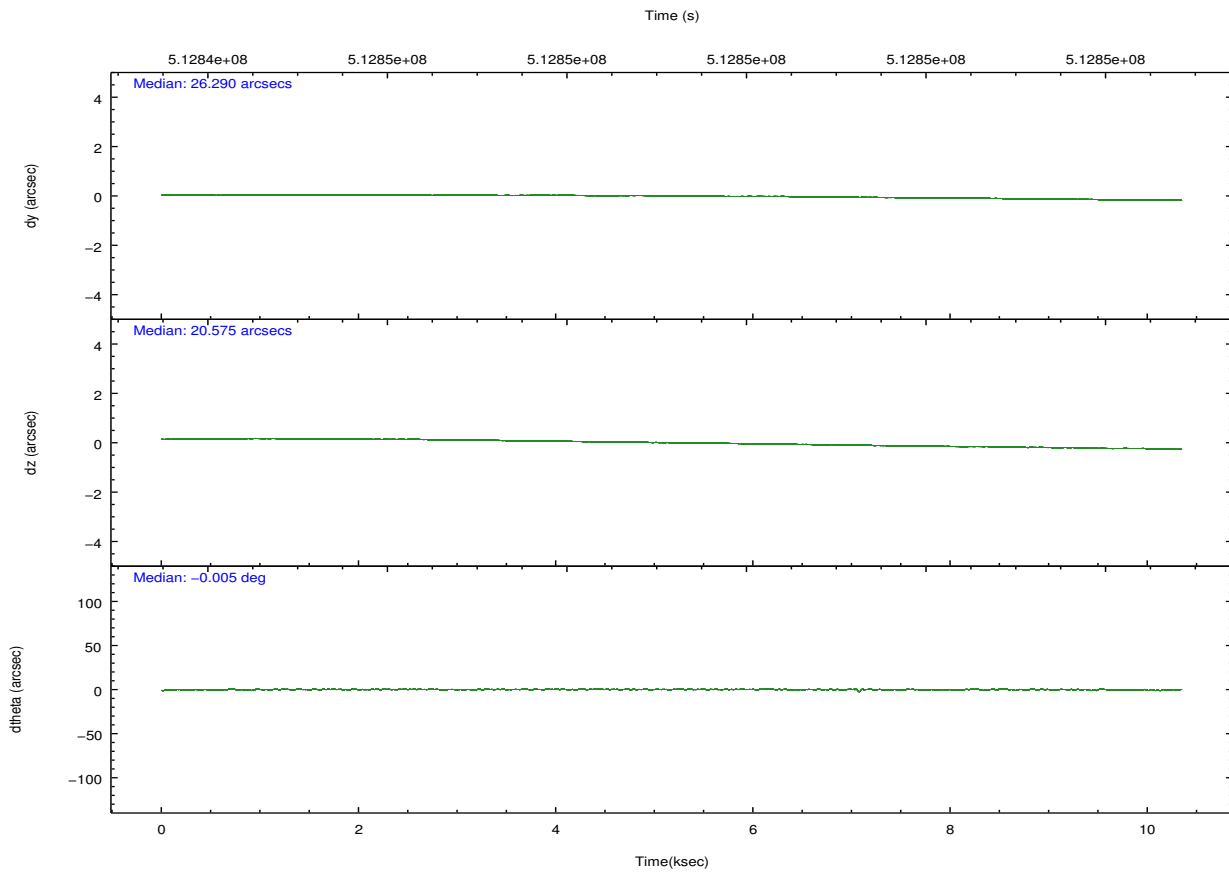
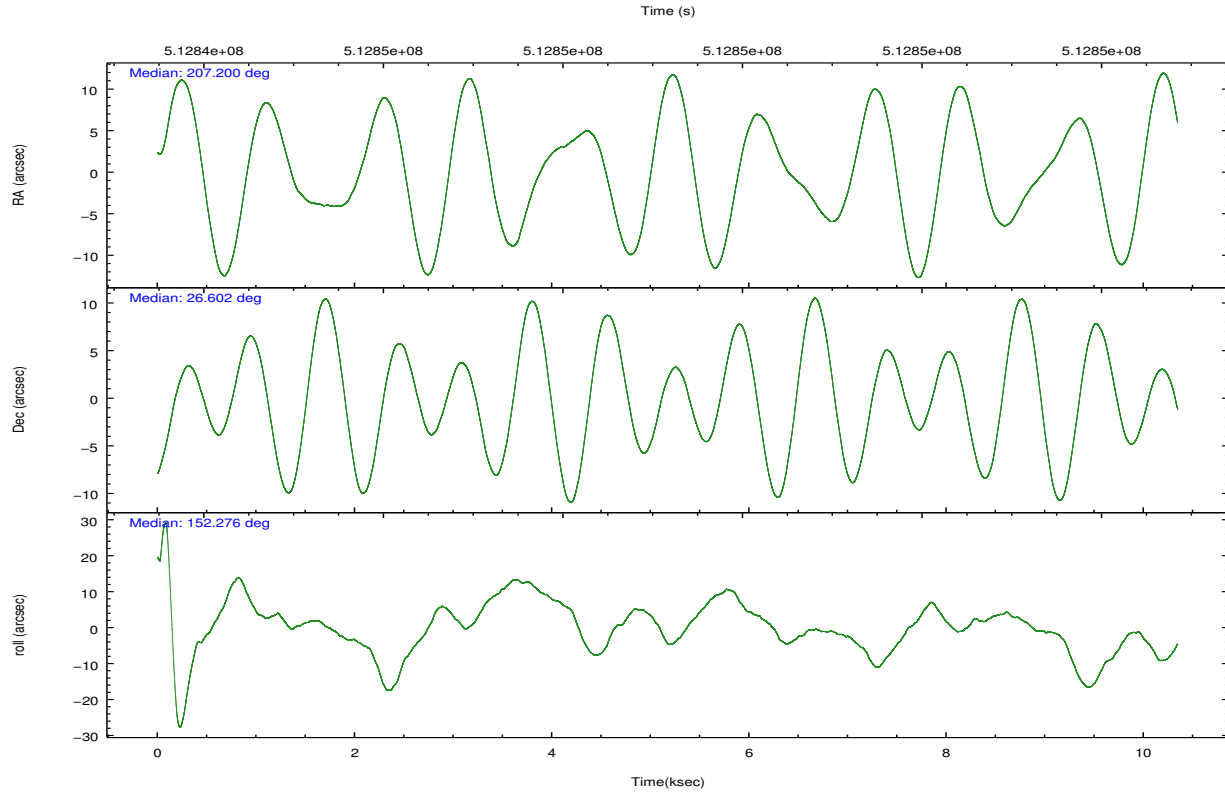
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	2589	2377	5863	6509	29502
	5%	5%	6%	11%	18%
grade 1 events	20	32	128	46	104
	0%	0%	0%	0%	0%
grade 2 events	1444	1277	13126	1905	30053
	2%	2%	15%	3%	18%
grade 3 events	598	596	1408	765	12854
	1%	1%	1%	1%	8%
grade 4 events	587	600	1316	793	12785
	1%	1%	1%	1%	8%
grade 5 events	2147	2598	6297	2658	7295
	4%	5%	7%	4%	4%
grade 6 events	1049	1147	20769	1594	35415
	2%	2%	24%	2%	22%
grade 7 events	39956	38527	37345	40539	31028
	82%	81%	43%	73%	19%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	207.230416	207.1999485577124	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.603434	26.60196822910806	Alternating exposures requested	N	N
[deg] Pointing Roll	152.117573	152.2878295636569	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	512697667.184000	512697667.184000			
[s] Window stop time (MET)	515203267.184000	515203267.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	512844350.184000	512843329.2175			
Observation start date	2014-04-02T16:44:43	2014-04-02T16:28:49			
[s] Observation end time (MET)	512854350.184000	512854484.29312			
Observation end date	2014-04-02T19:31:23	2014-04-02T19:34:44			
Read mode	TIMED	TIMED			

2.3 Aspect





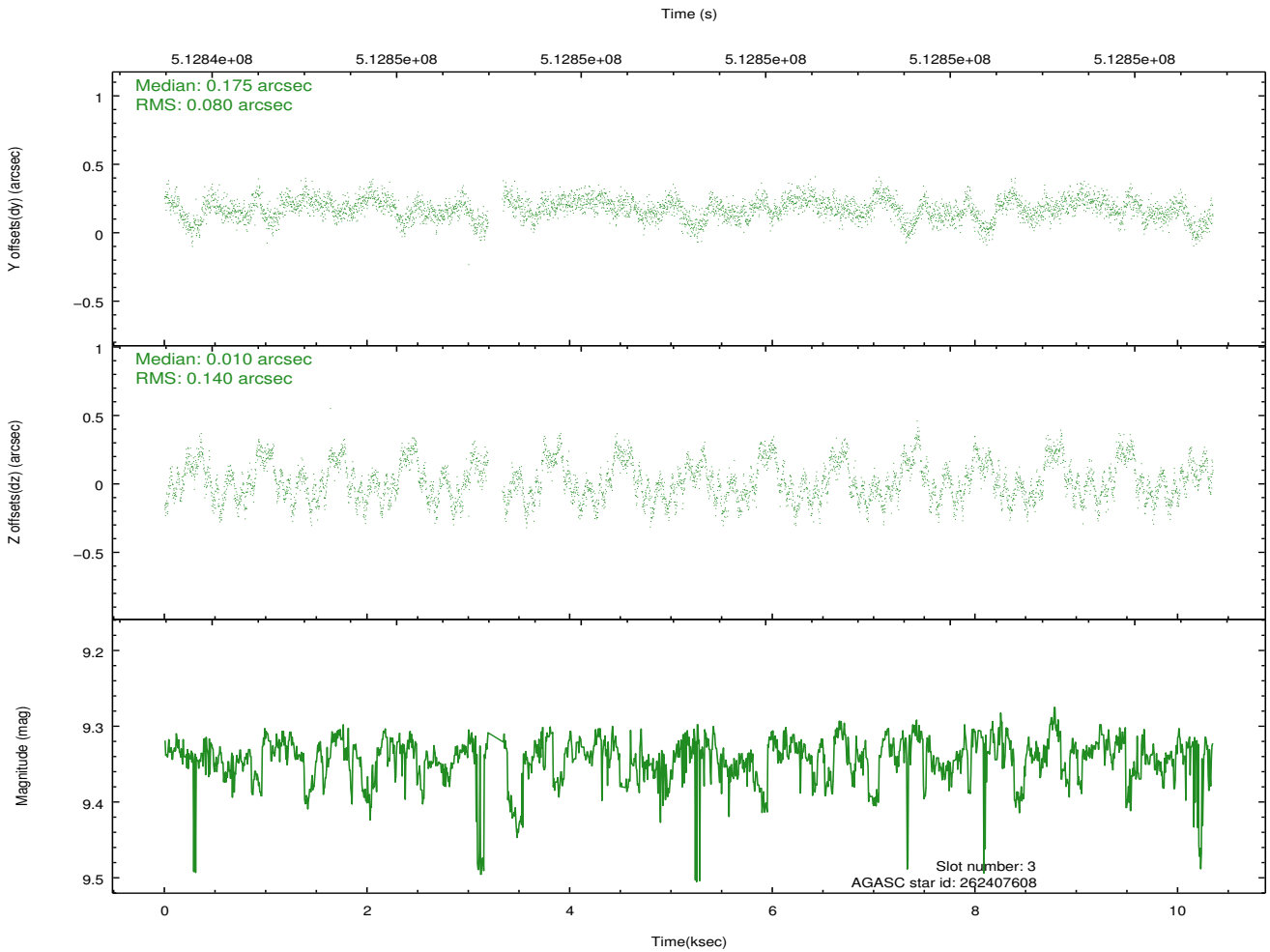
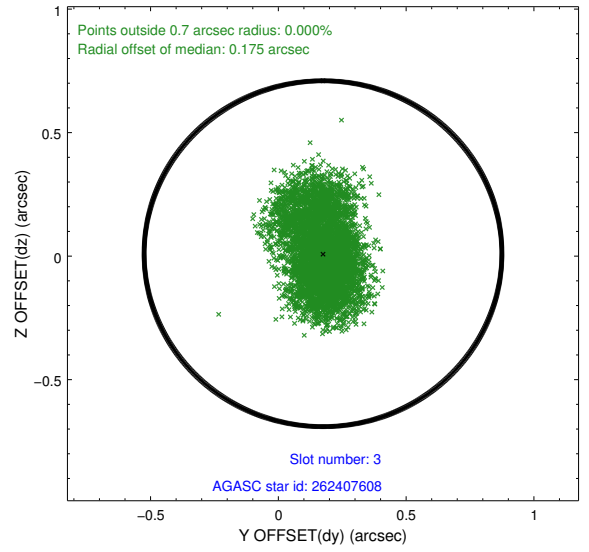
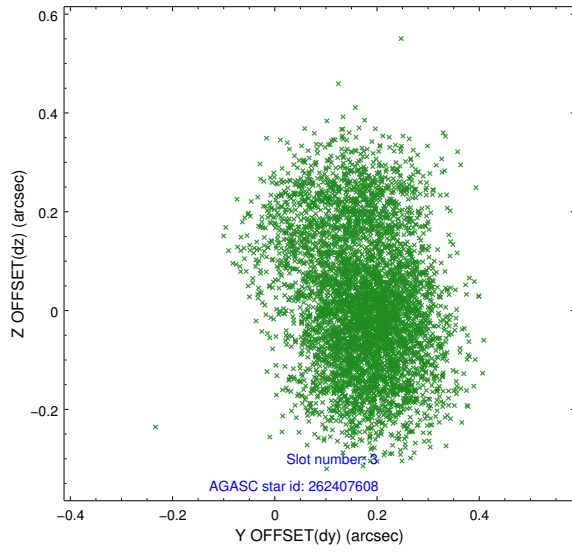
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	2523	-0.187	0.012	0.007	0.012	0.000000	0.000000	-779.71	-1742.09
1	FID		ACIS-S-4	7.02	2523	0.347	0.087	0.006	0.013	0.000000	0.000000	2133.85	165.97
2	FID		ACIS-S-5	7.05	2524	-0.191	-0.090	0.007	0.012	0.000000	0.000000	-1831.93	160.00
3	GUIDE	used	262407608	9.34	4972	0.175	0.010	0.177	0.277	207.378401	26.435507	-703.82	311.29
4	GUIDE	used	262407800	10.06	4868	-0.099	0.238	0.225	0.369	207.321181	27.251762	837.66	-2196.57
5	GUIDE	used	262408096	9.33	5044	-0.153	-0.194	0.144	0.232	207.011678	26.515421	475.99	609.00
6	GUIDE	used	262408936	9.70	5042	-0.019	0.087	0.226	0.326	207.154731	26.726554	422.86	-277.27
7	GUIDE	used	262411960	9.66	5042	0.097	-0.162	0.238	0.351	207.327895	25.881727	-1493.73	2148.70

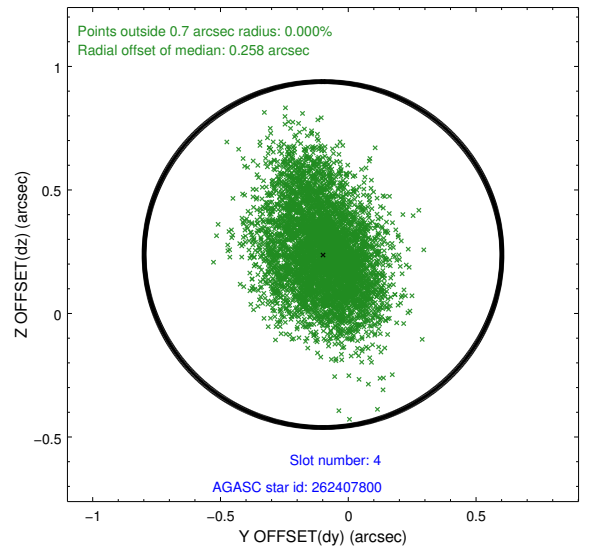
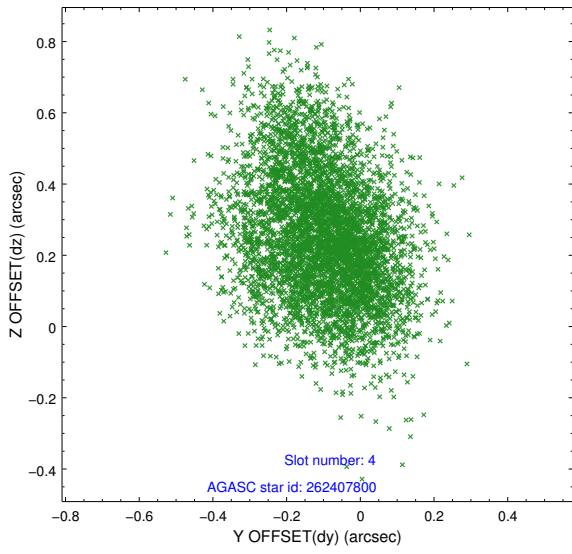
∞

2.4 Star Slots

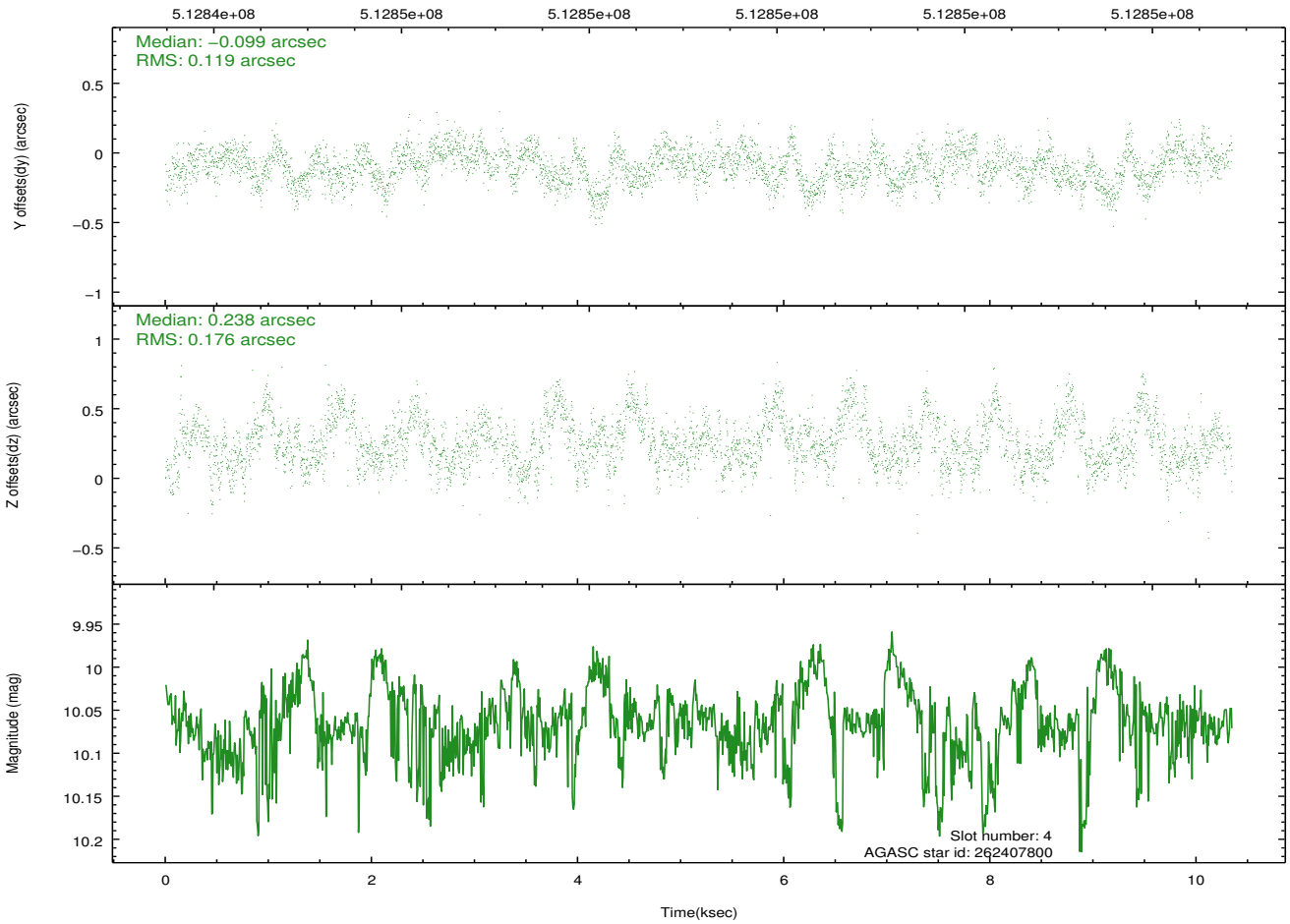
2.4.1 Slot 3



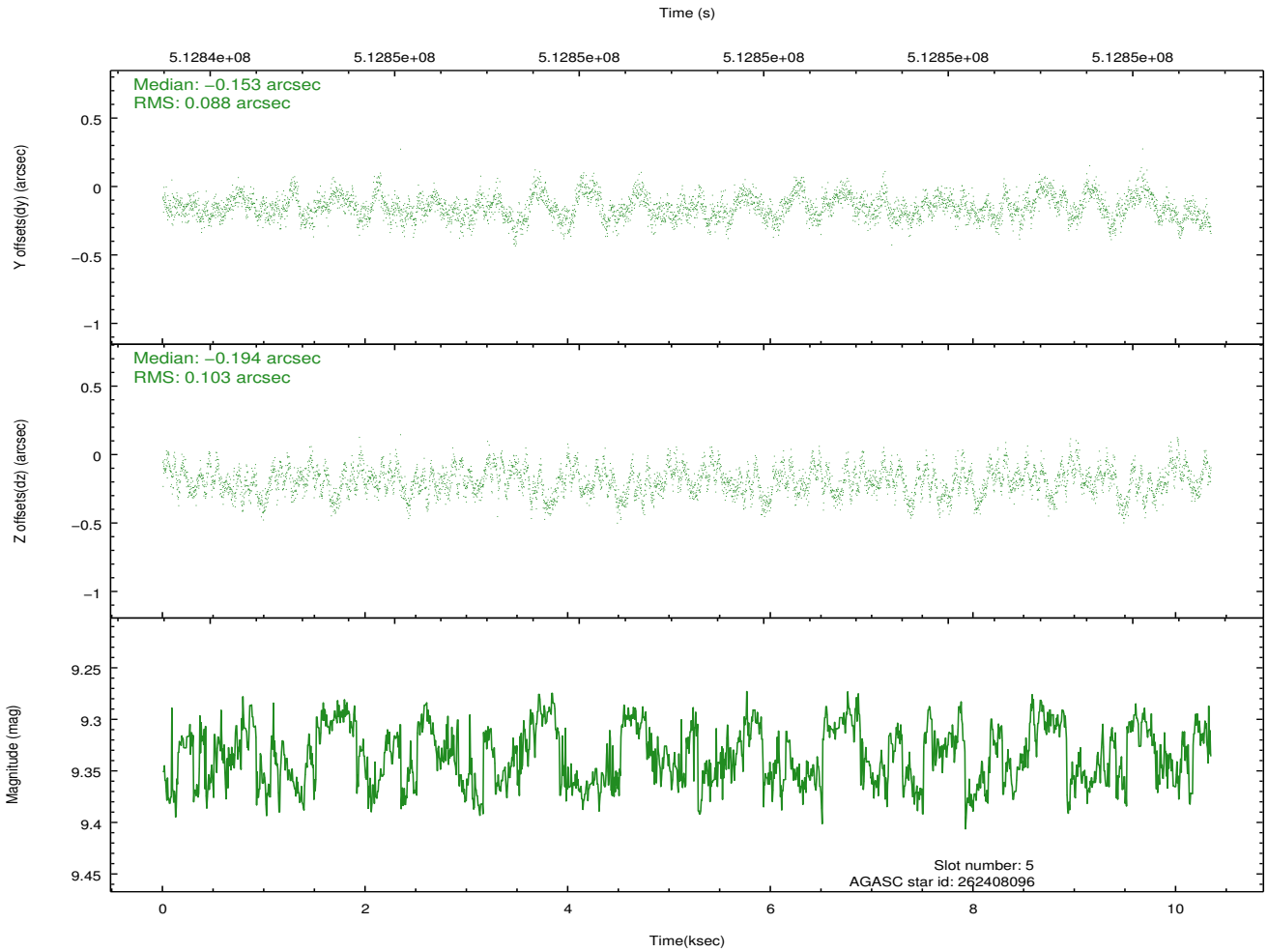
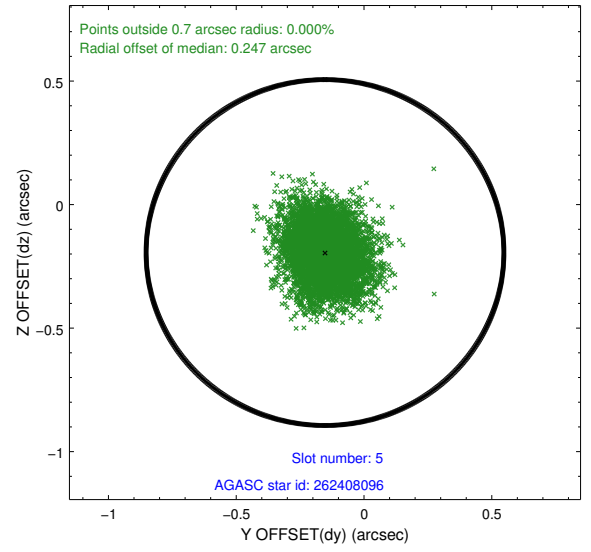
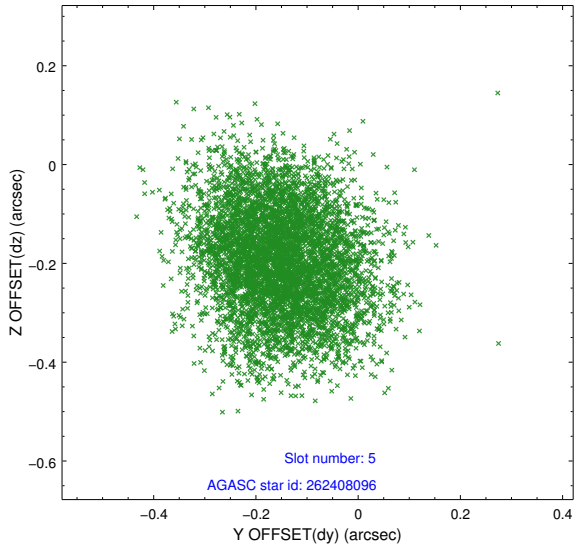
2.4.2 Slot 4



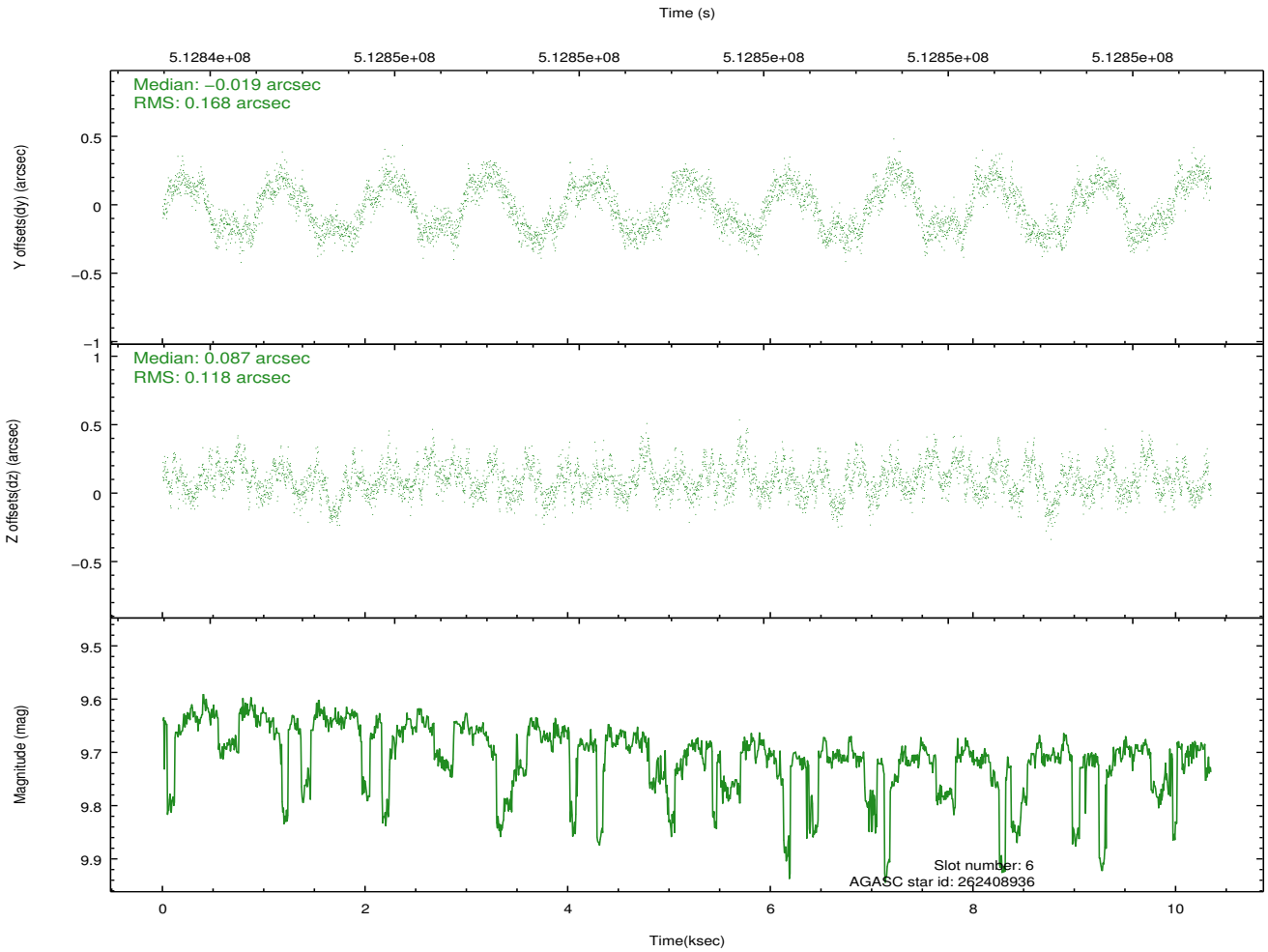
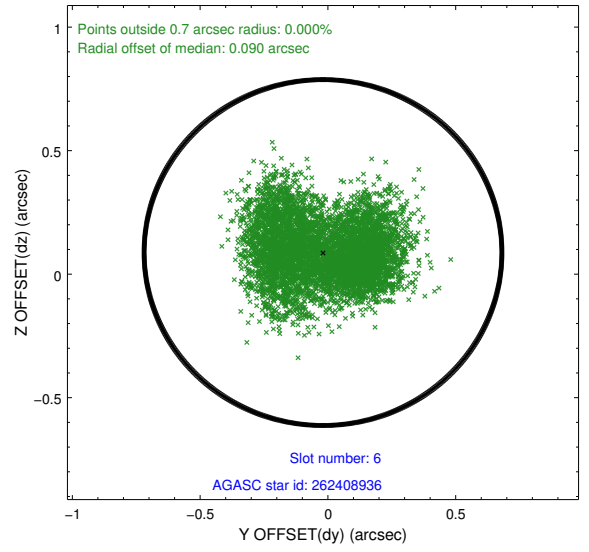
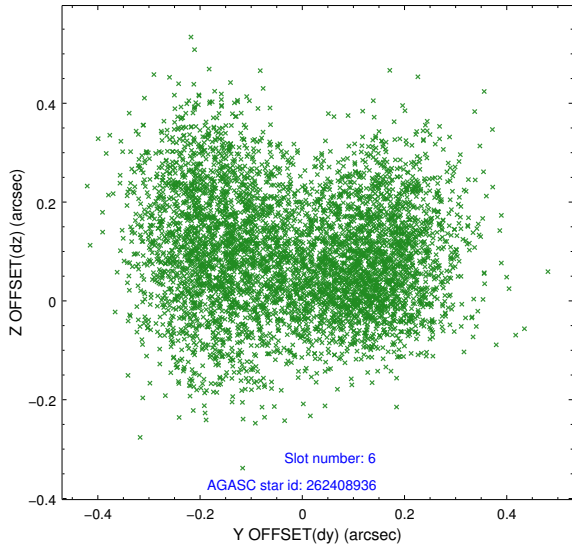
Time (s)



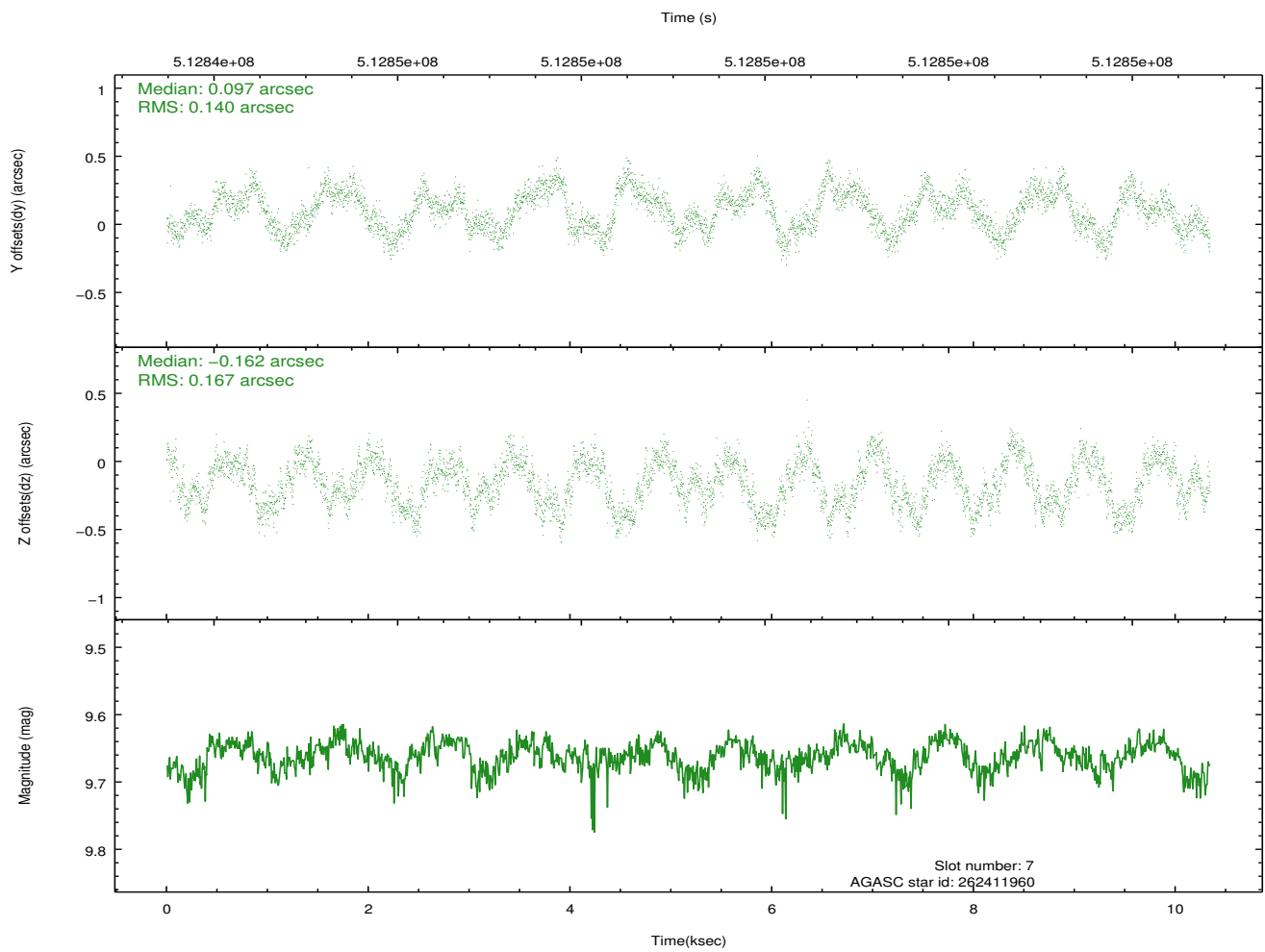
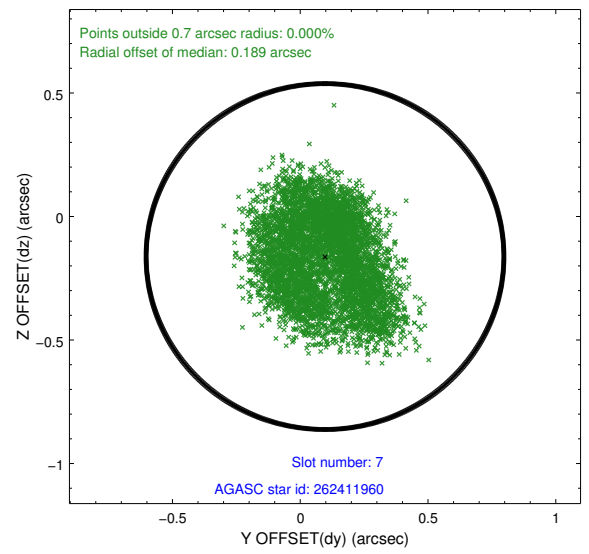
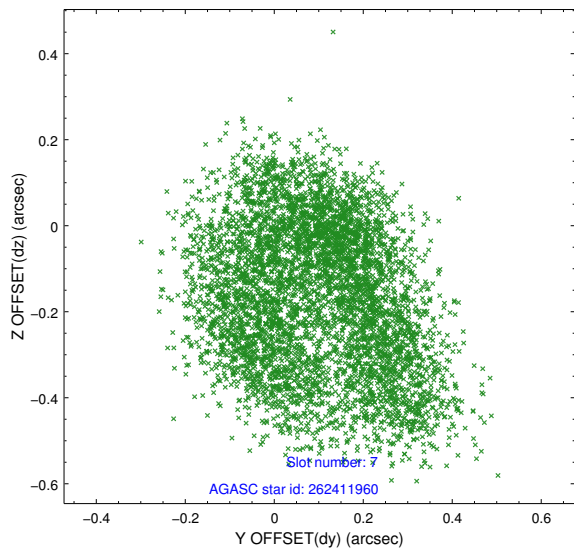
2.4.3 Slot 5



2.4.4 Slot 6

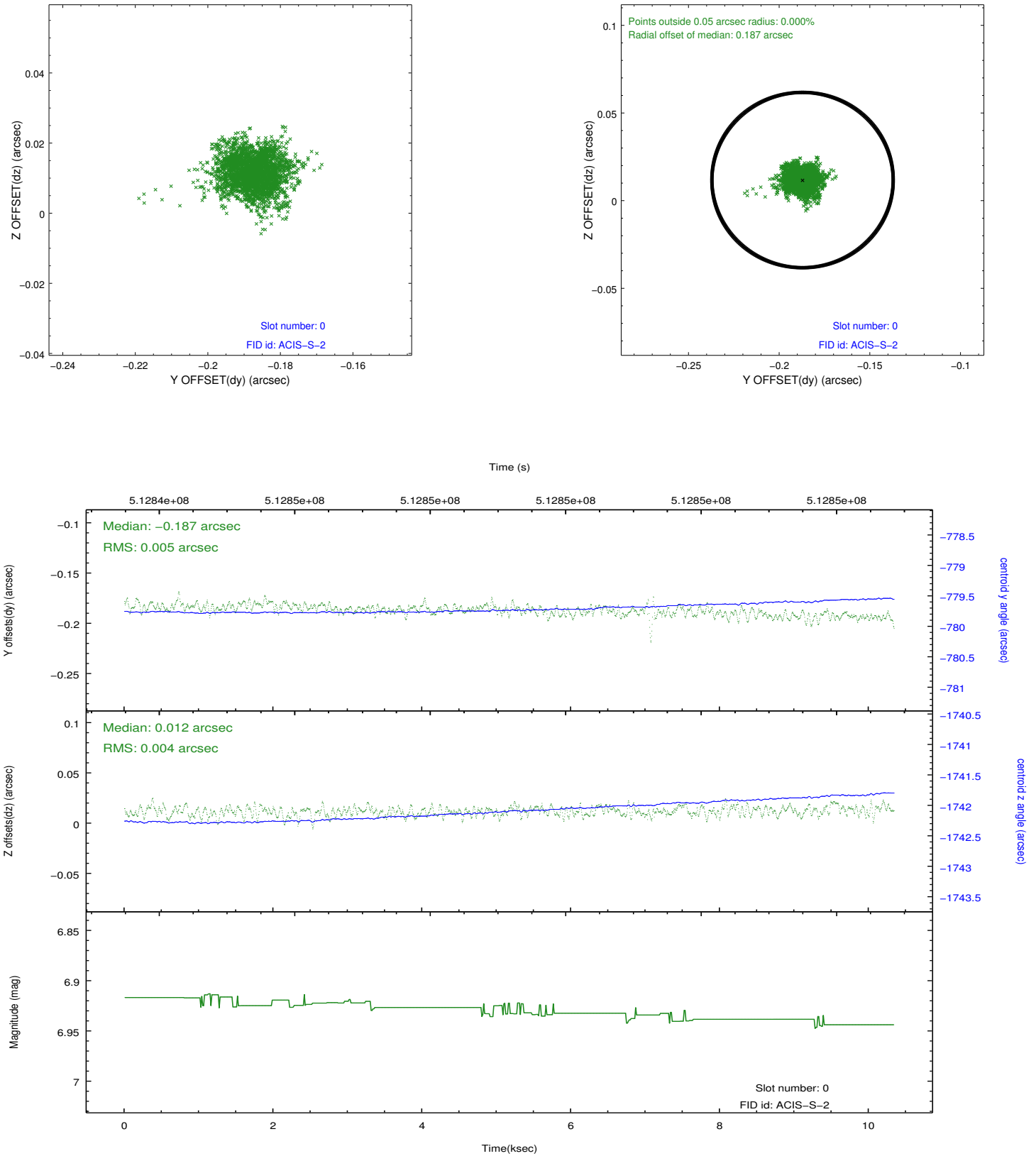


2.4.5 Slot 7

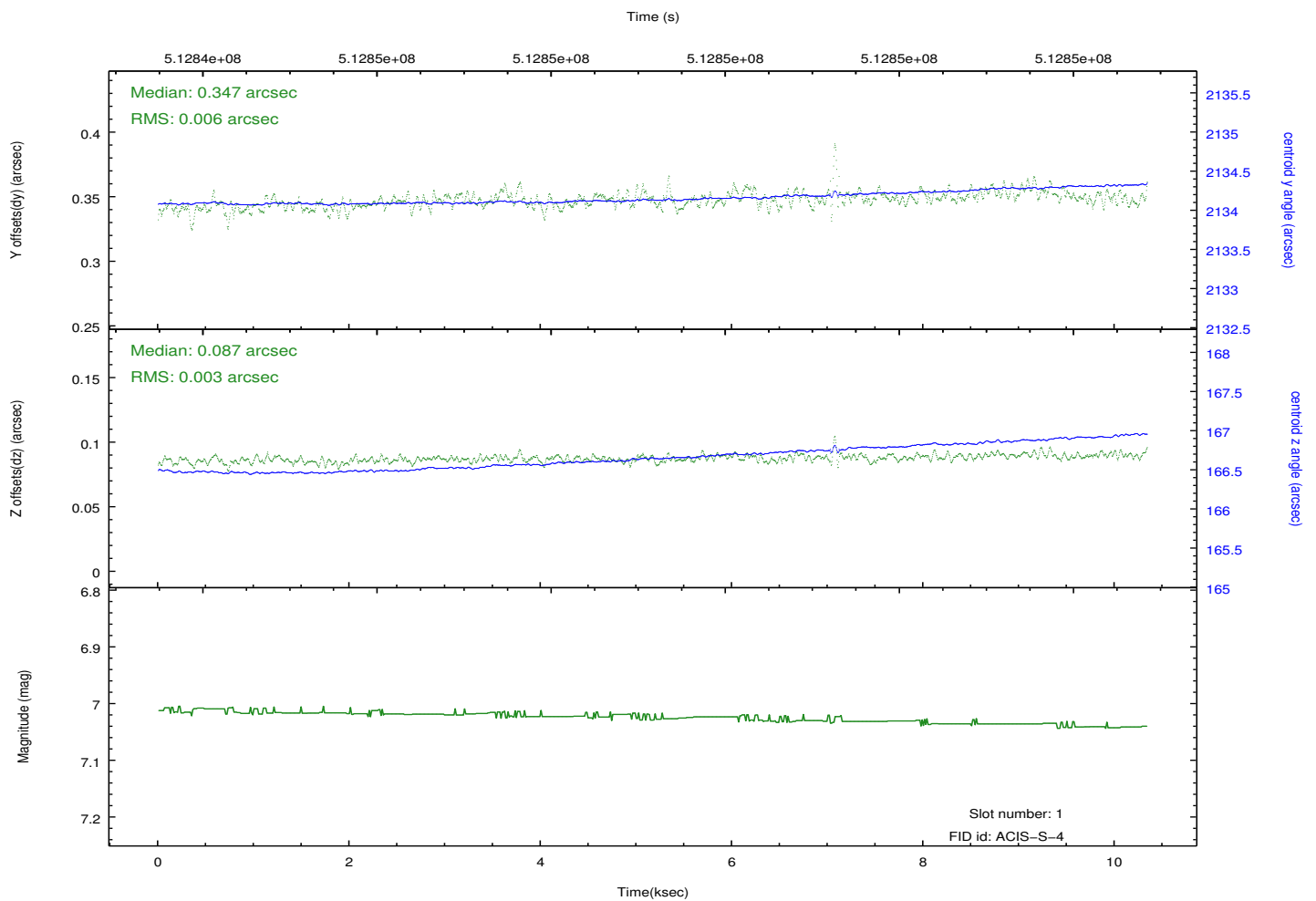
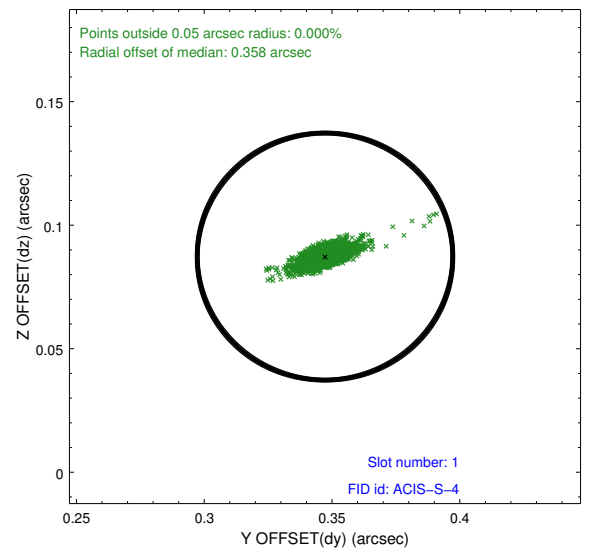
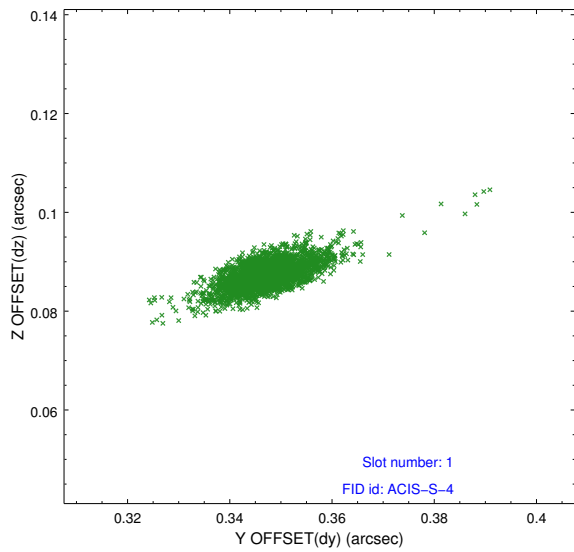


2.5 FID Slots

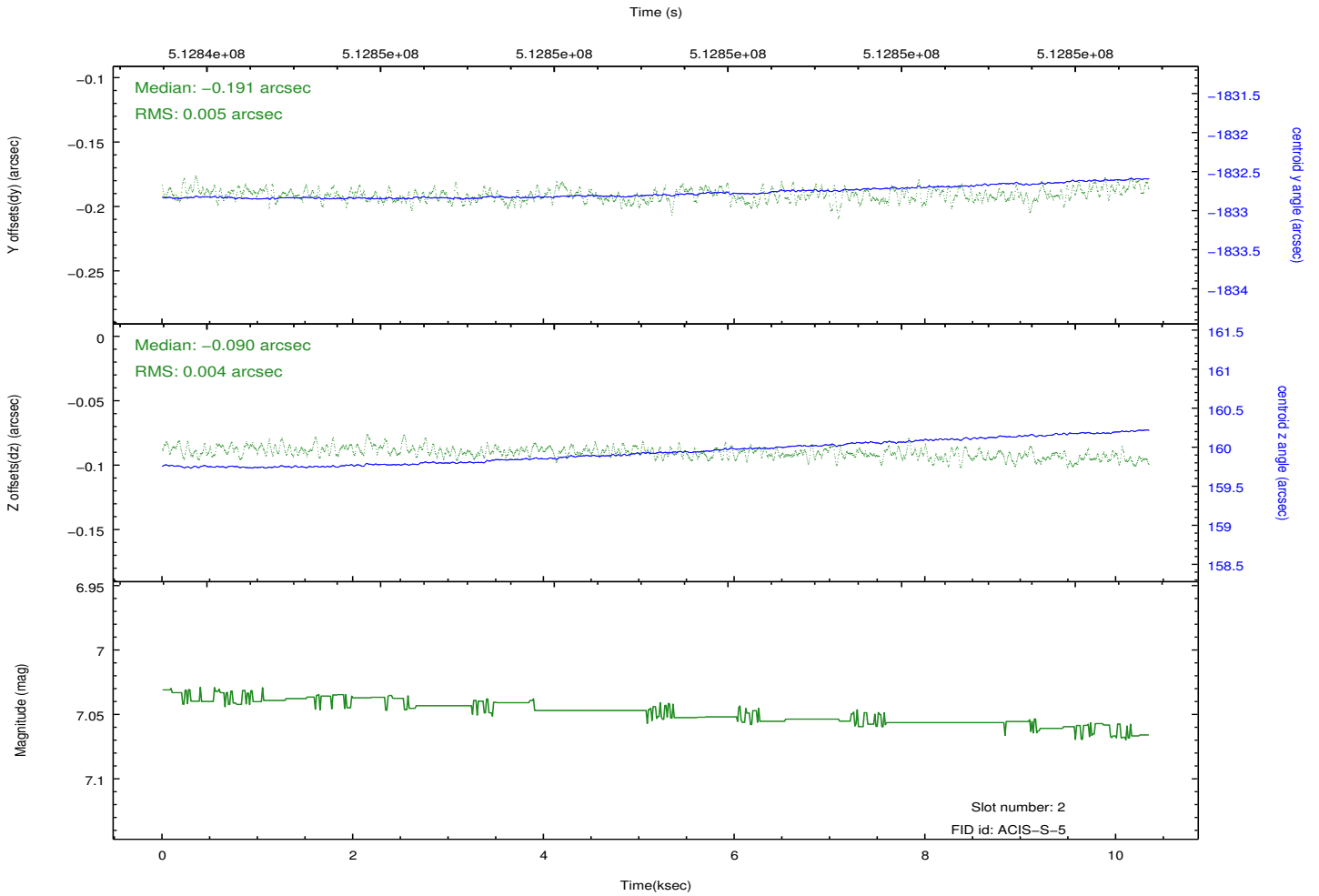
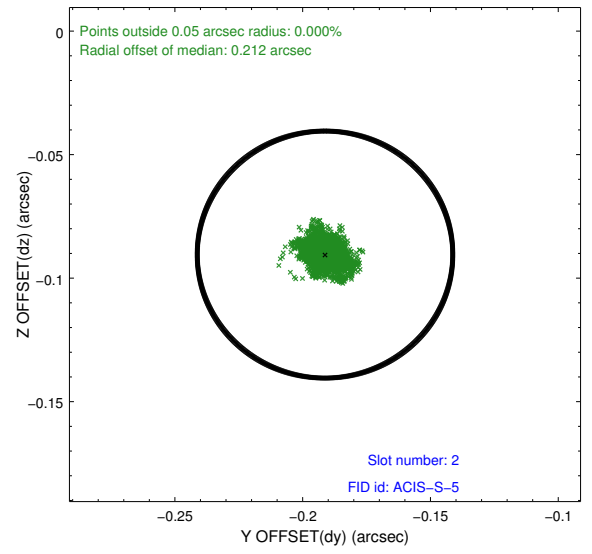
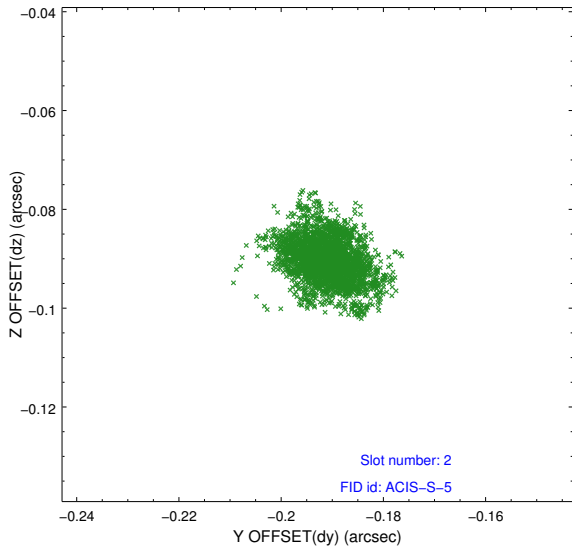
2.5.1 Slot 0



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)	2014.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.068800077438

A.2 Comments

Window preference met.

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.