

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16330 - L2 Version 2
Chandra X-Ray Center

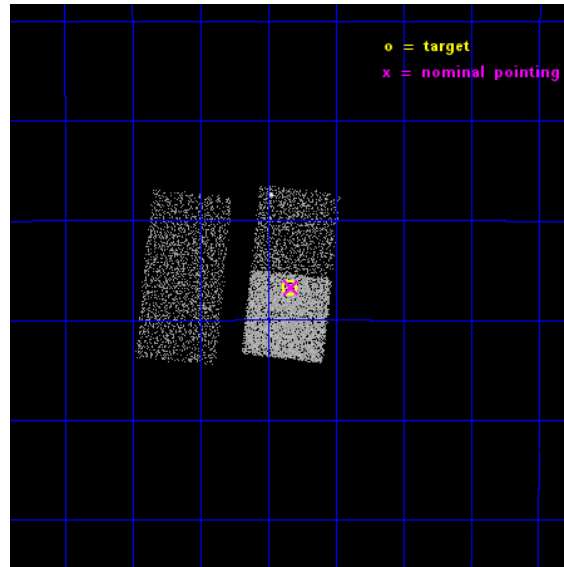
L2 Processing Date : Dec 11 2014

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1 Front

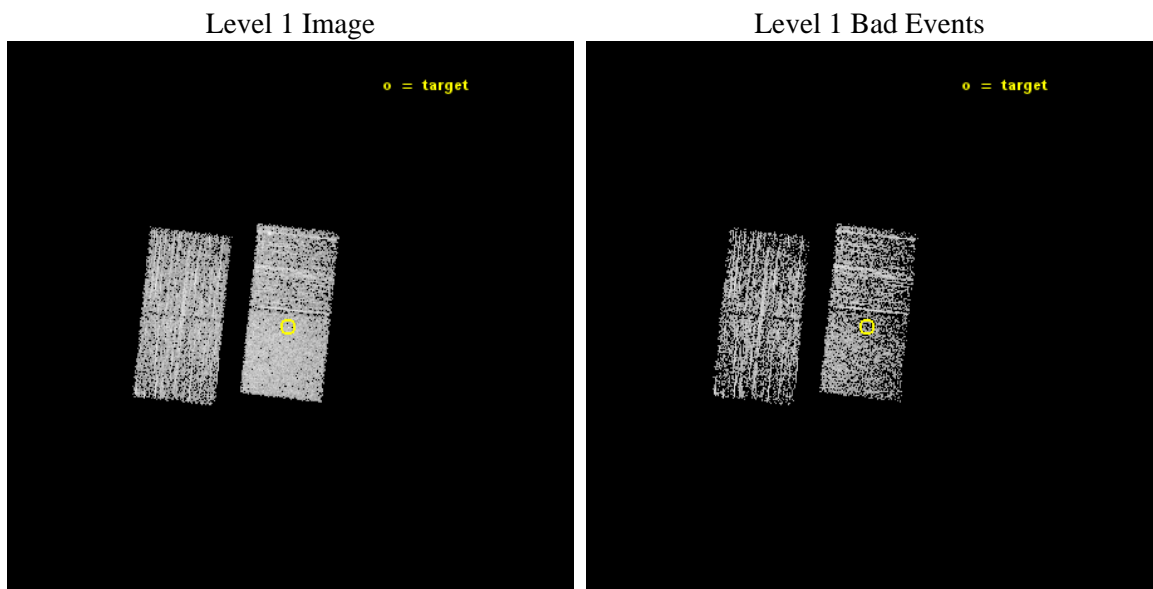
seq_num	200956	Sequence number
obs_id	16330	Observation id
title	X-rays and Disks around Upper Sco Stars	Proposal title
observer	Prof. Gordon Garmire	Principal investigator
object	US 16142029-1906481	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	243.584583	Observer's specified target RA [deg]
dec_targ	-19.113361	Observer's specified target Dec [deg]
ra_nom	243.58182965457	Nominal RA [deg]
dec_nom	-19.112052343516	Nominal Dec [deg]
roll_nom	96.155723005849	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3080.3603851199	Sum of GTIs [s]
livetime	3040.11320896	Livetime [s]
ontime2	3080.23726511	Sum of GTIs [s]
ontime3	3080.2783051133	Sum of GTIs [s]
ontime6	3080.3193451166	Sum of GTIs [s]
ontime7	3080.3603851199	Sum of GTIs [s]
l2events	12611	Number of level 2 events



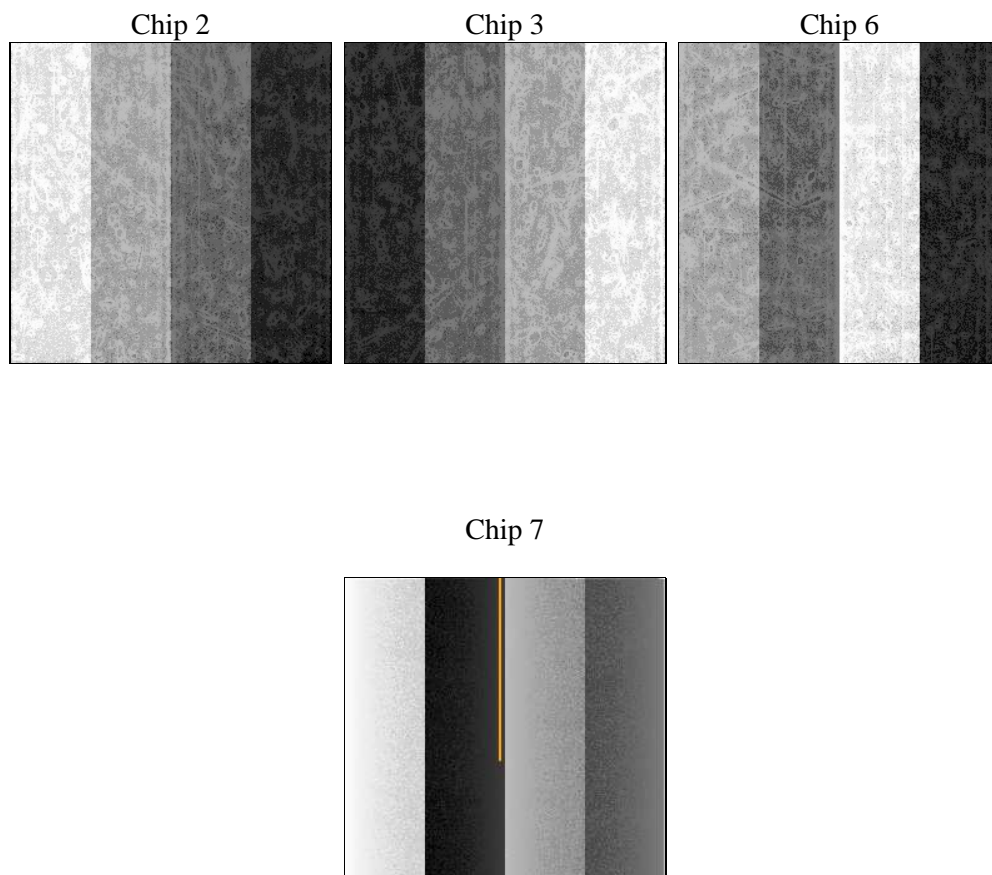
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.668000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	3080.3603851199	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	3080.23726511	Sum of GTIs [s]
date	2014-12-11T05:40:50	Date and time of file creation	ontime3	3080.2783051133	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3080.3193451166	Sum of GTIs [s]
			ontime7	3080.3603851199	Sum of GTIs [s]
			l1events	63372	Number of level 1 events

2.1.4 Events

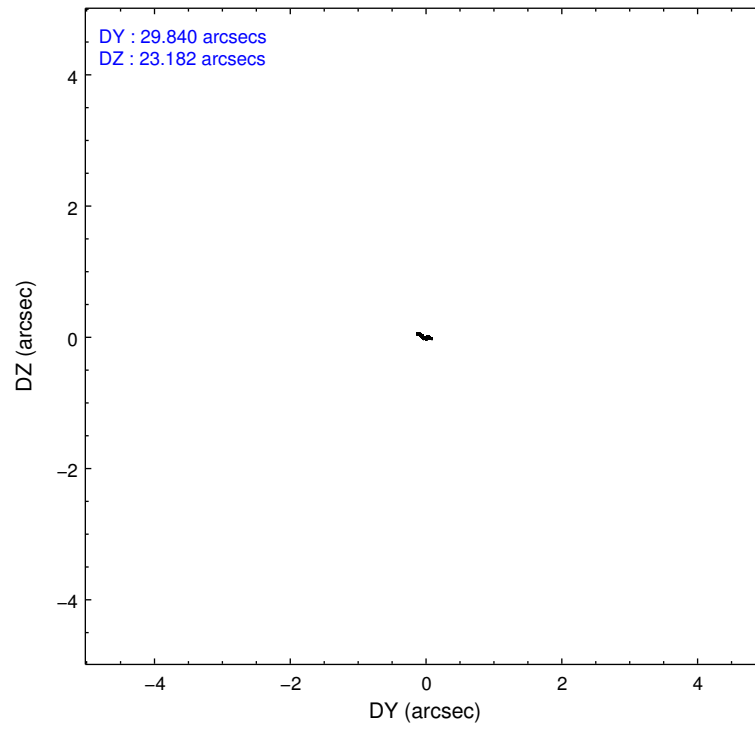
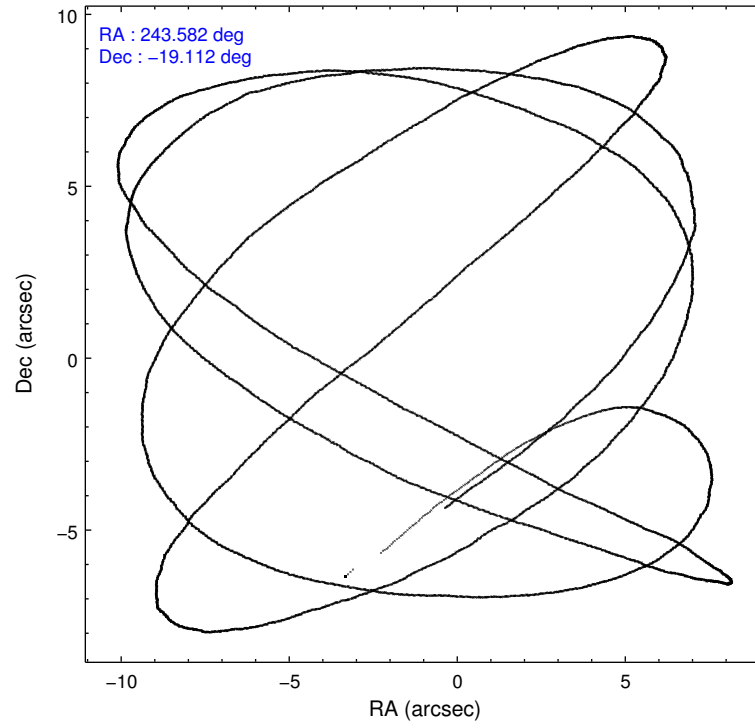
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	14630	14011	15271	19460
rejected events	12994	12498	13374	10975
rejected %	88%	89%	87%	56%

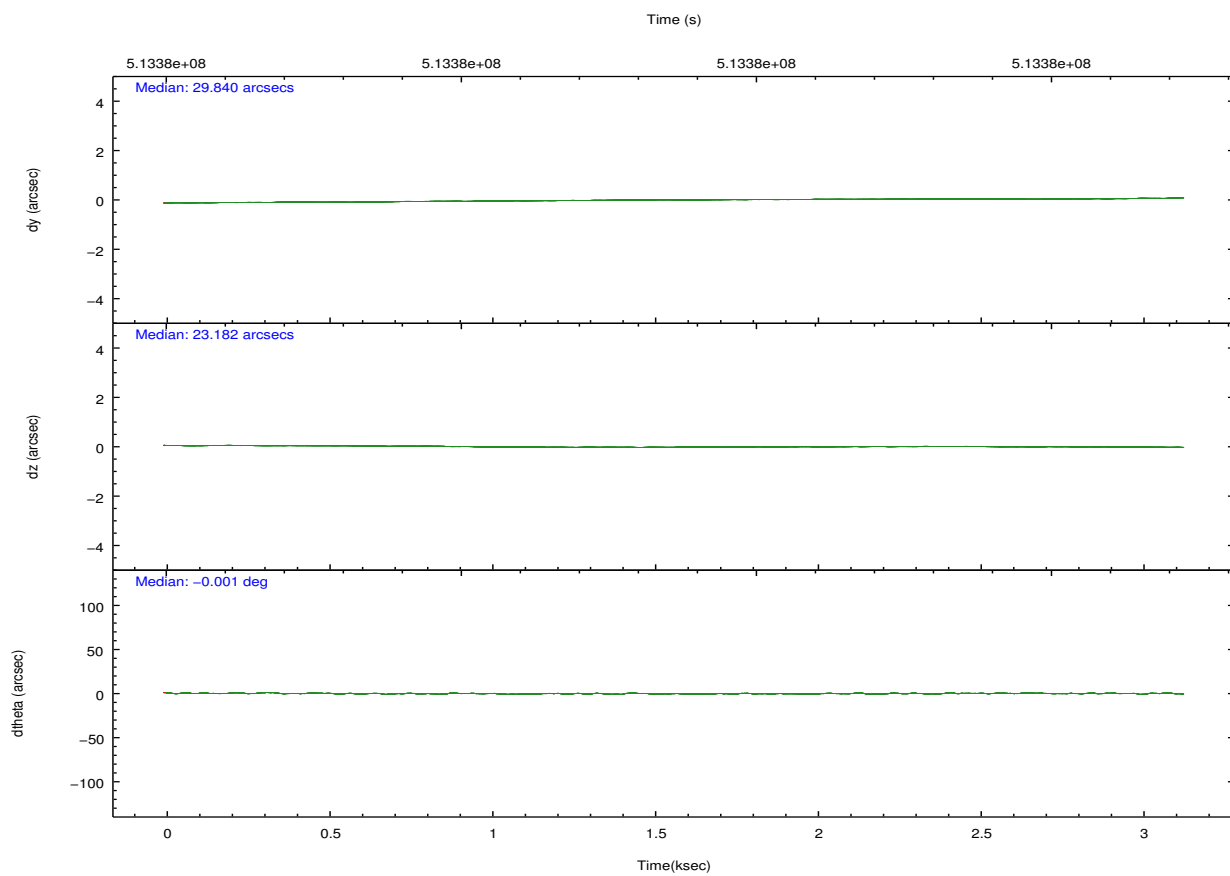
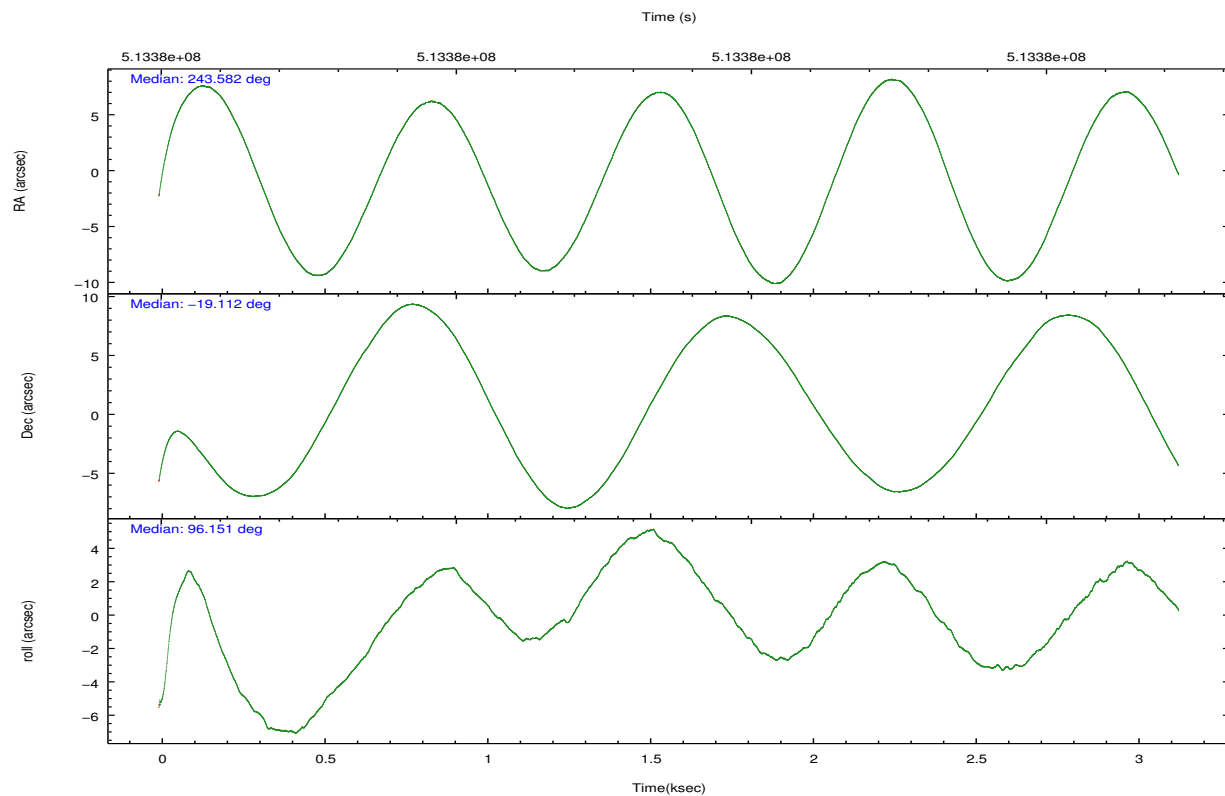
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	582	509	760	760
	3%	3%	4%	3%
grade 1 events	9	11	15	26
	0%	0%	0%	0%
grade 2 events	383	343	412	1747
	2%	2%	2%	8%
grade 3 events	147	172	188	717
	1%	1%	1%	3%
grade 4 events	190	159	153	727
	1%	1%	1%	3%
grade 5 events	616	728	808	1973
	4%	5%	5%	10%
grade 6 events	336	330	386	4545
	2%	2%	2%	23%
grade 7 events	12367	11759	12549	8965
	84%	83%	82%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	243.599098	243.5818296545723	Subarray requested	NONE	NONE
[deg] Pointing Dec	-19.133870	-19.11205234351576	Alternating exposures requested	N	N
[deg] Pointing Roll	96.004755	96.15572300584904	[s] Primary exposure time	0.000000	3.1
[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)	513377274.184000	513375536.92186			
Observation start date	2014-04-08T20:46:47	2014-04-08T20:18:56			
[s] Observation end time (MET)	513380275.184000	513380500.48463			
Observation end date	2014-04-08T21:36:48	2014-04-08T21:41:40			
Read mode	TIMED	TIMED			

2.3 Aspect



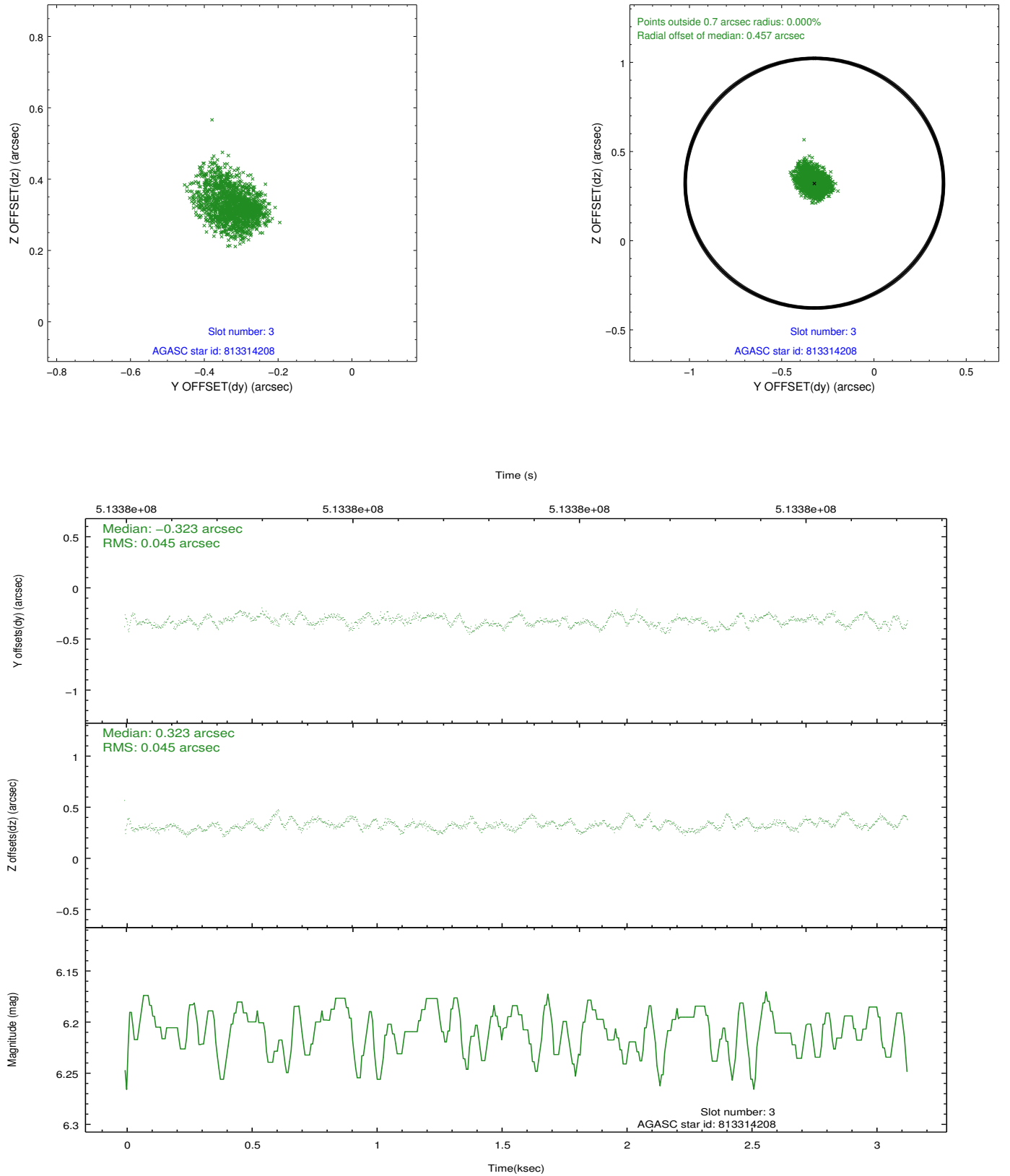


Slot Statistics

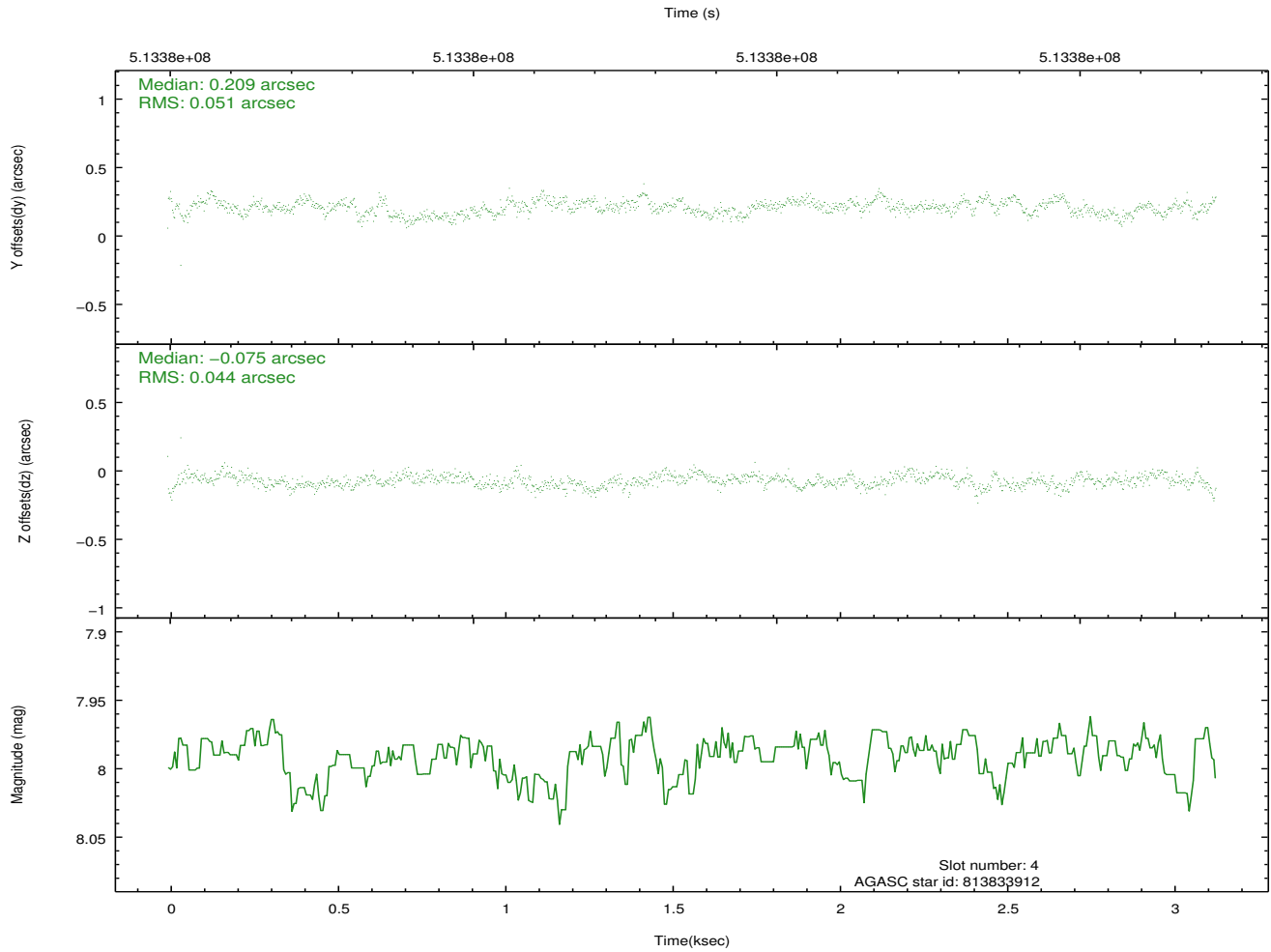
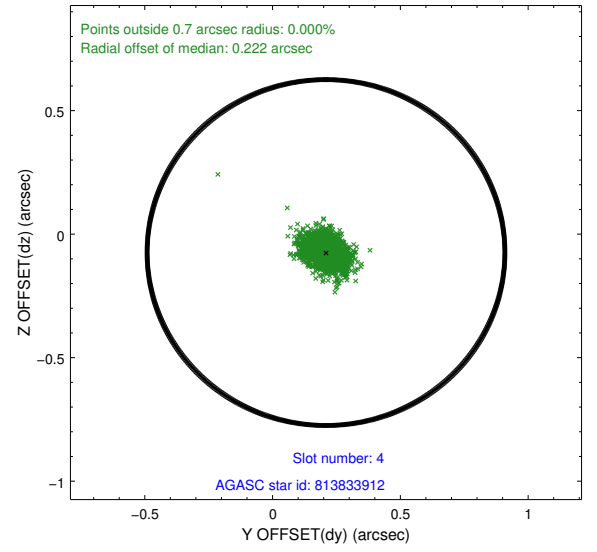
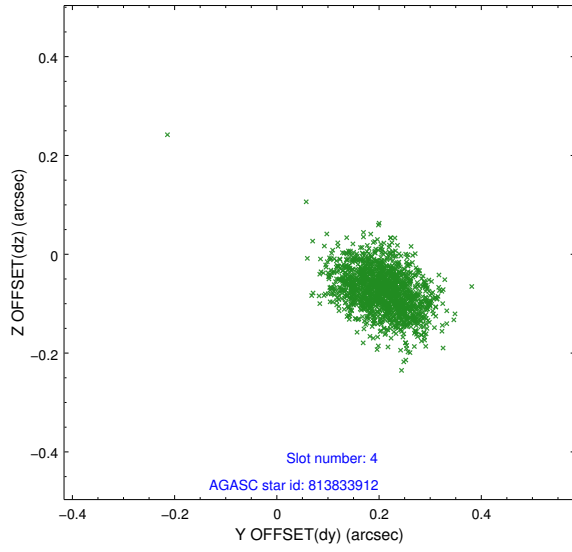
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.89	765	-0.256	-0.144	0.006	0.011	0.000000	0.000000	-783.54	-1744.89
1	FID		ACIS-S-4	6.97	765	0.271	0.166	0.006	0.010	0.000000	0.000000	2129.41	161.64
2	FID		ACIS-S-6	7.11	765	-0.042	-0.015	0.007	0.011	0.000000	0.000000	381.37	801.25
3	GUIDE	used	813314208	6.21	1529	-0.323	0.323	0.069	0.109	243.663521	-18.535646	2117.11	-441.50
4	GUIDE	used	813833912	7.99	1529	0.209	-0.075	0.070	0.112	243.090962	-19.579045	-1414.70	1882.21
5	GUIDE	used	813834112	8.20	1527	-0.122	-0.279	0.090	0.146	243.024975	-19.062329	456.02	1917.82
6	GUIDE	used	813836688	8.68	1528	0.063	-0.031	0.094	0.148	243.555491	-18.836806	1077.86	36.80
7	GUIDE	used	813838352	7.93	1528	0.174	0.056	0.067	0.113	243.183752	-19.502876	-1174.71	1541.48

2.4 Star Slots

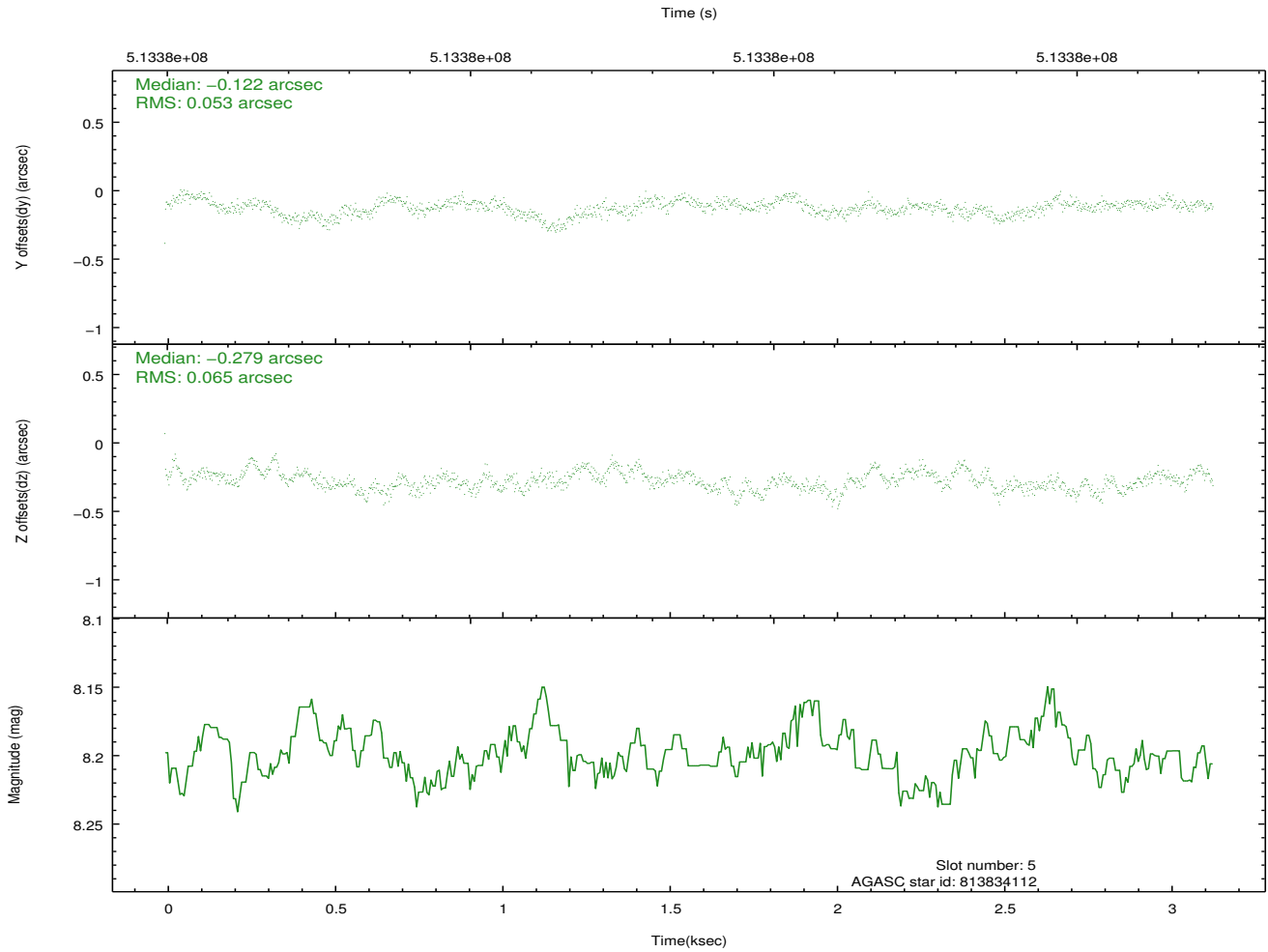
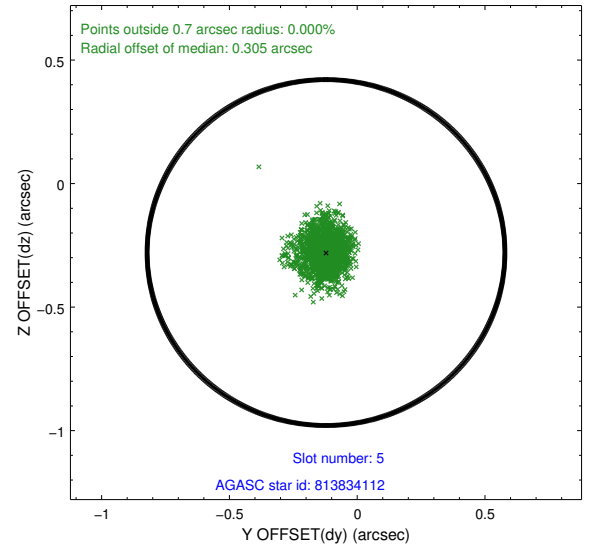
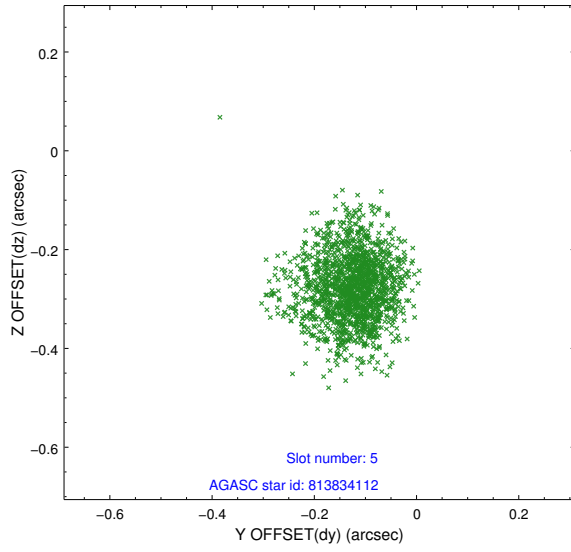
2.4.1 Slot 3



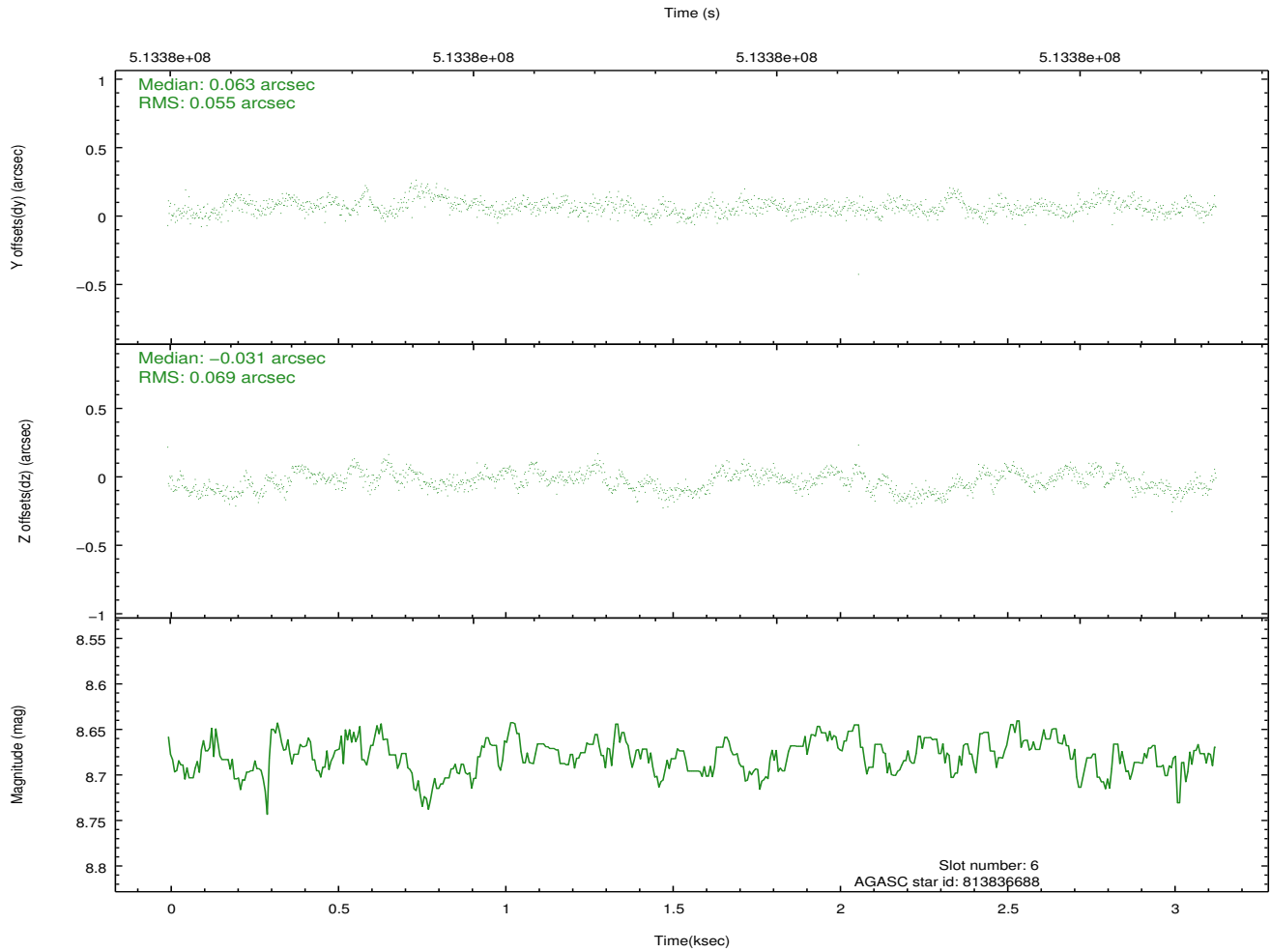
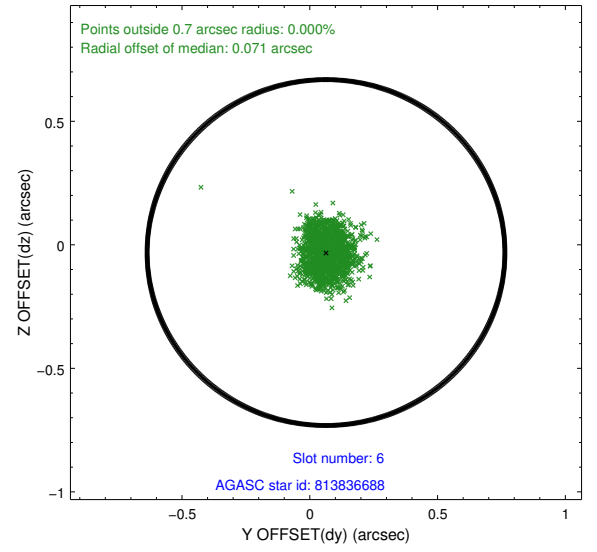
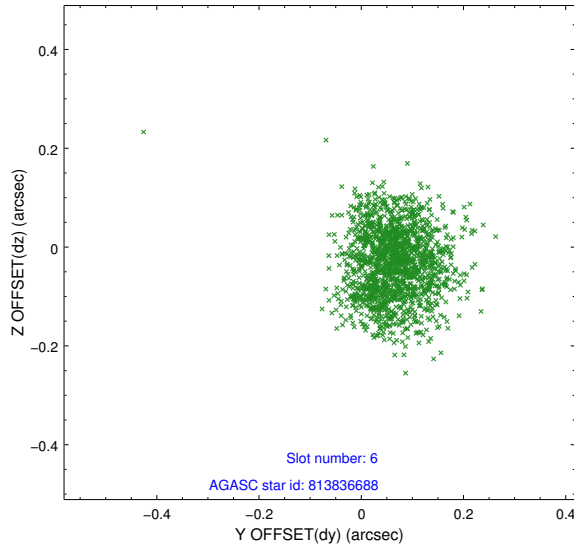
2.4.2 Slot 4



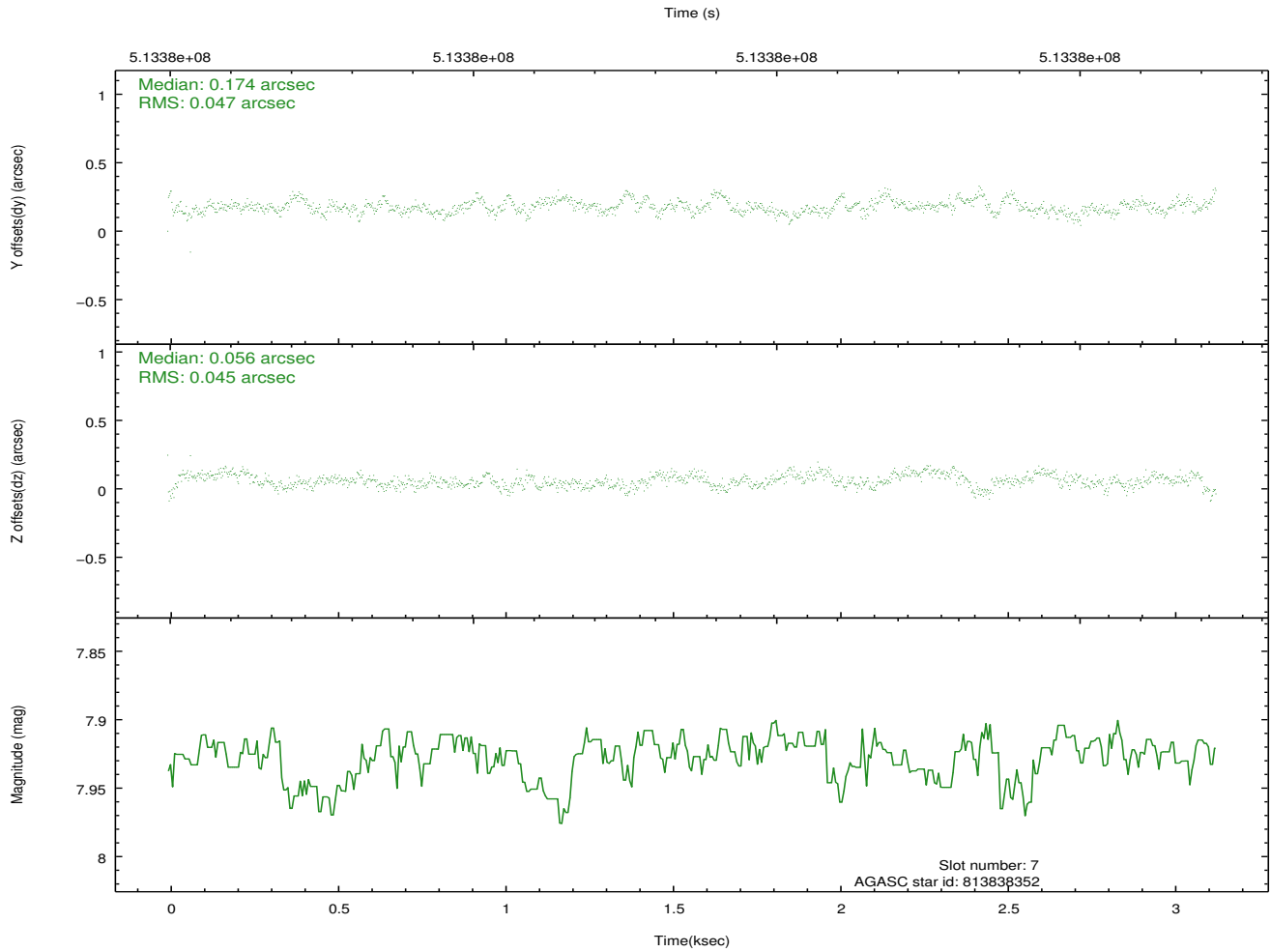
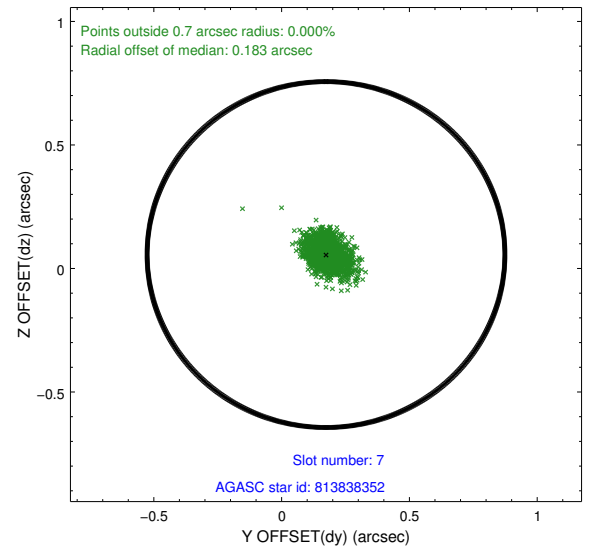
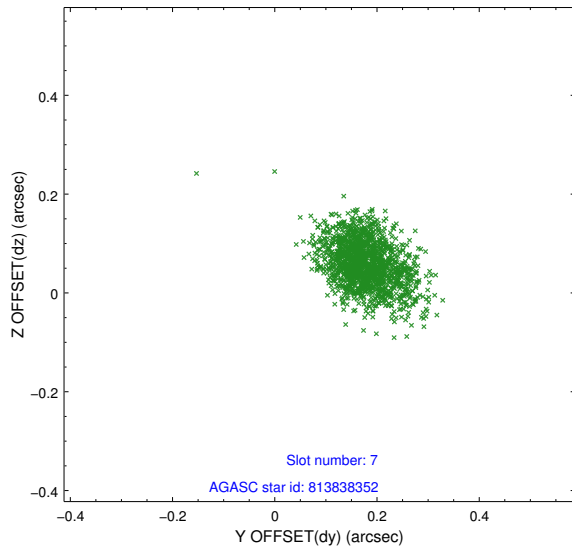
2.4.3 Slot 5



2.4.4 Slot 6

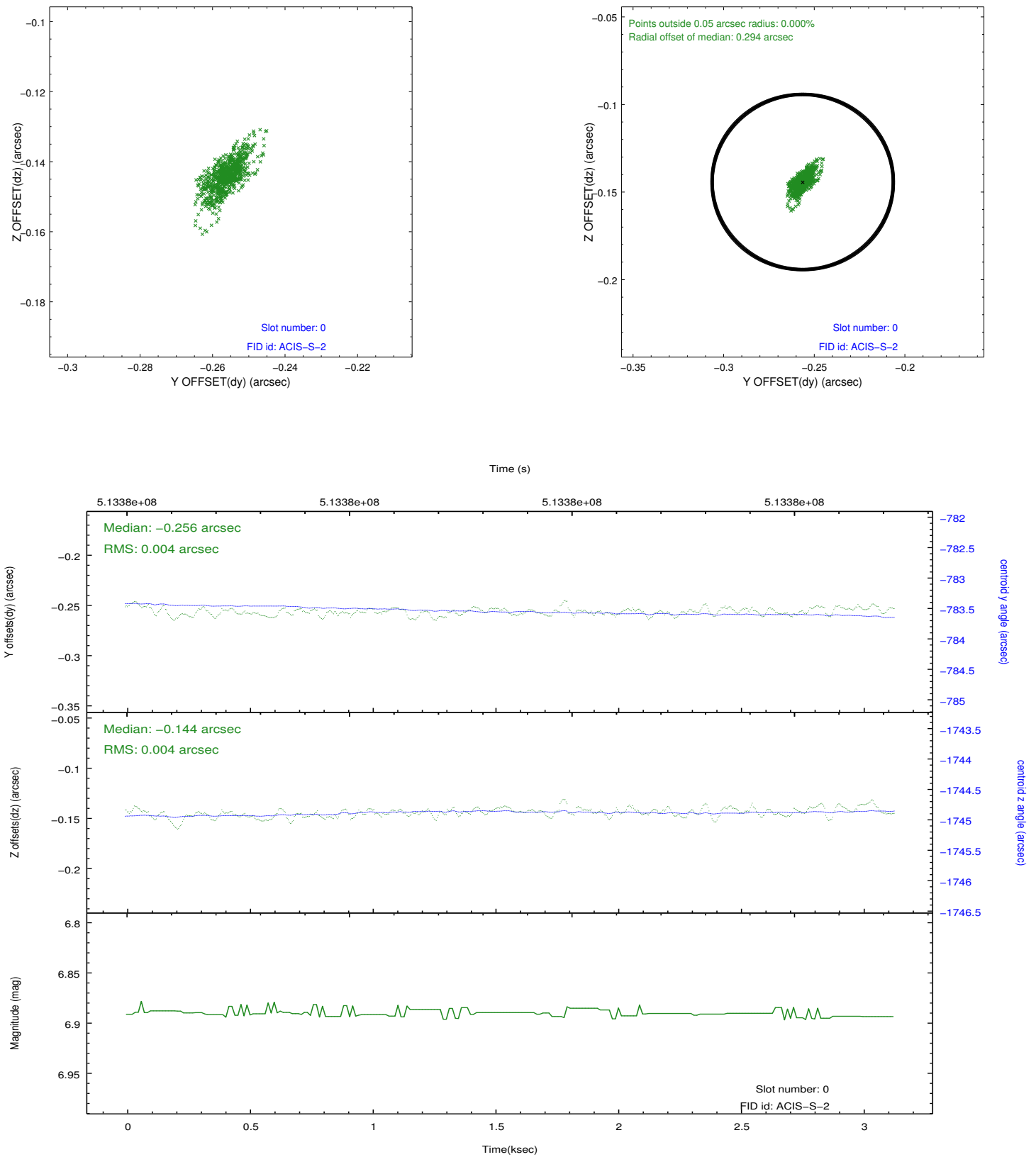


2.4.5 Slot 7

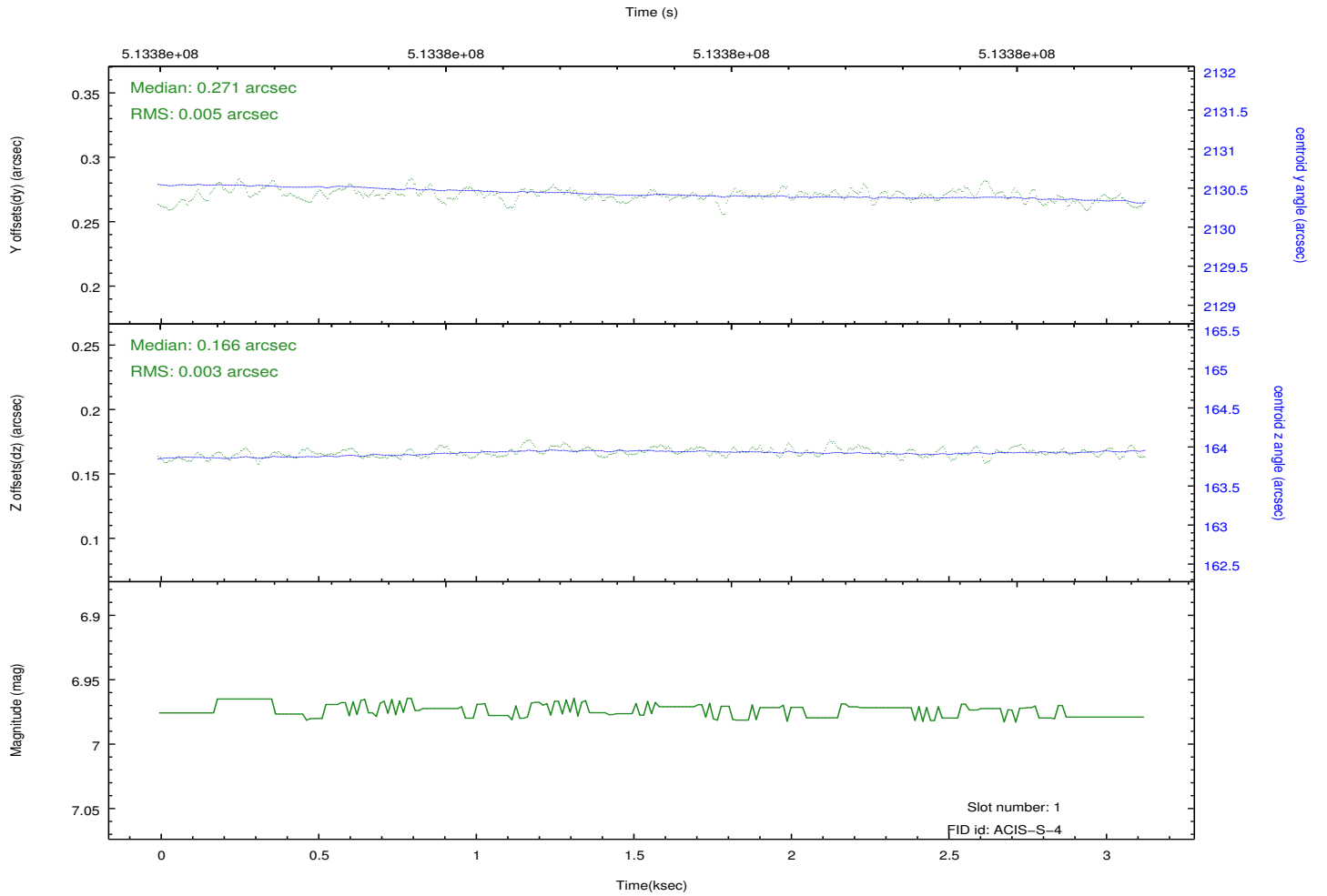
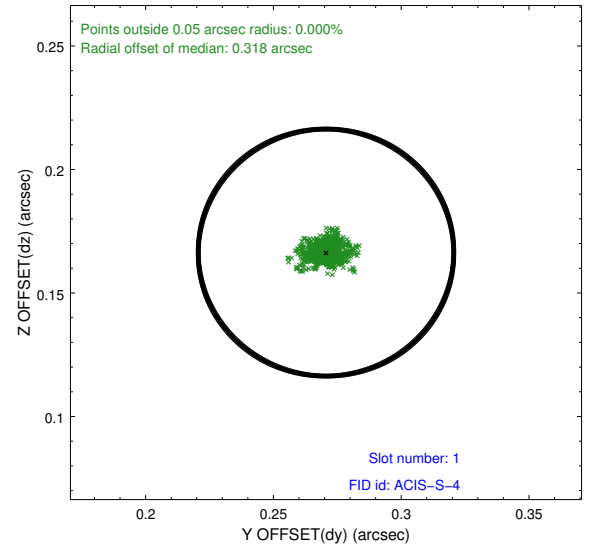
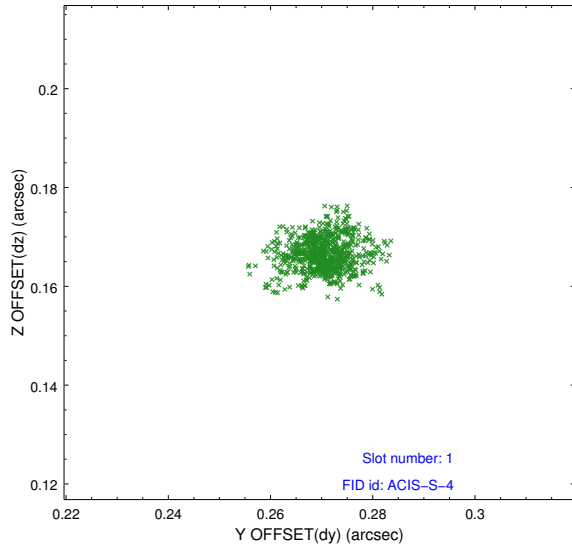


2.5 FID Slots

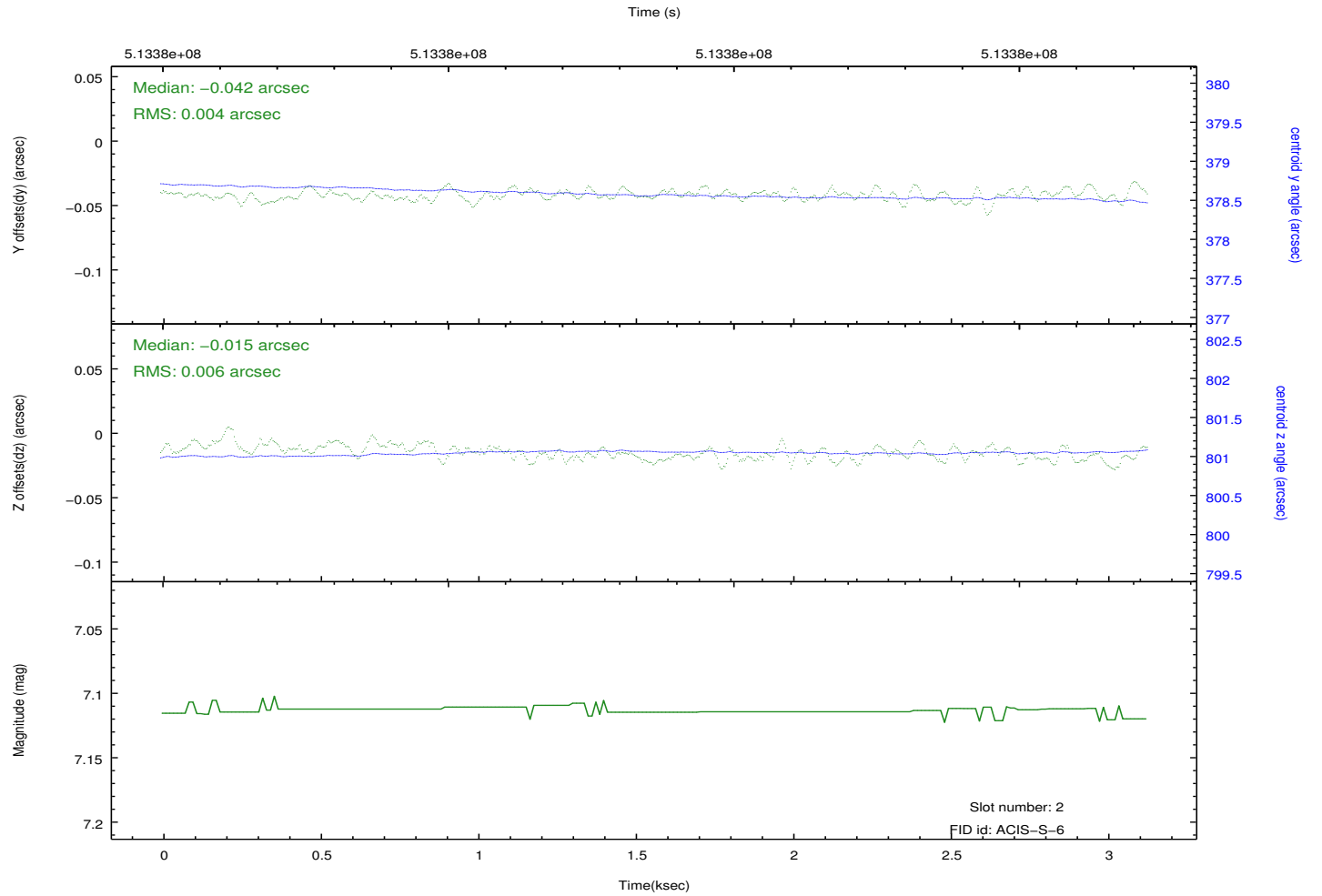
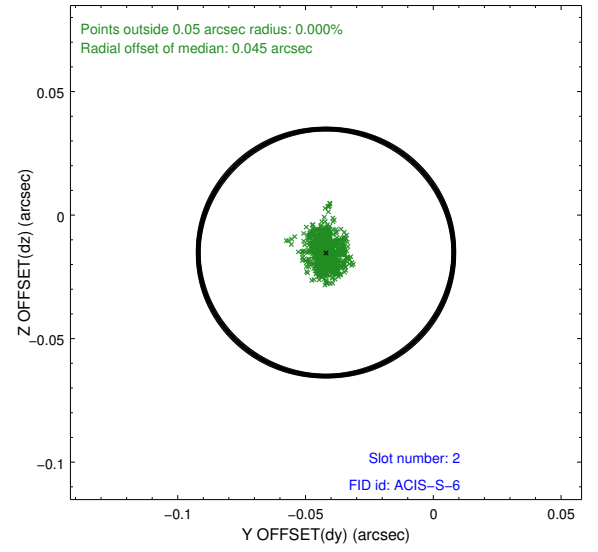
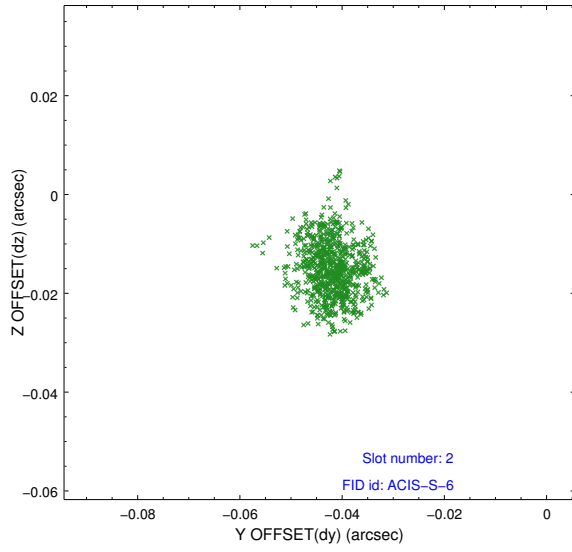
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.0803603851199

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.