

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 15350 - L2 Version 3
Chandra X-Ray Center

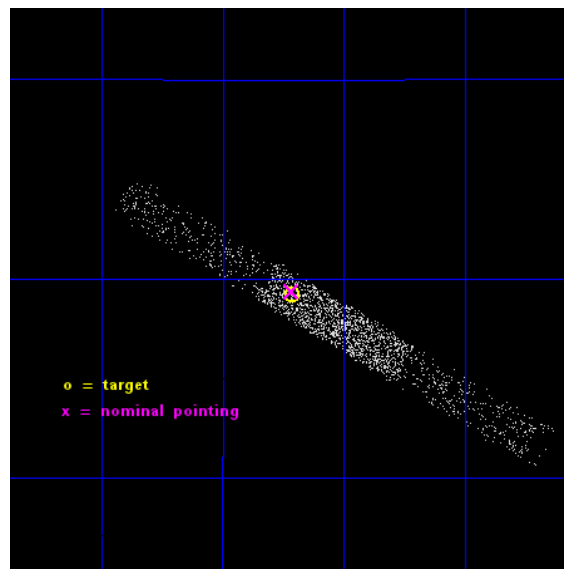
L2 Processing Date : Nov 30 2014

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1 Front

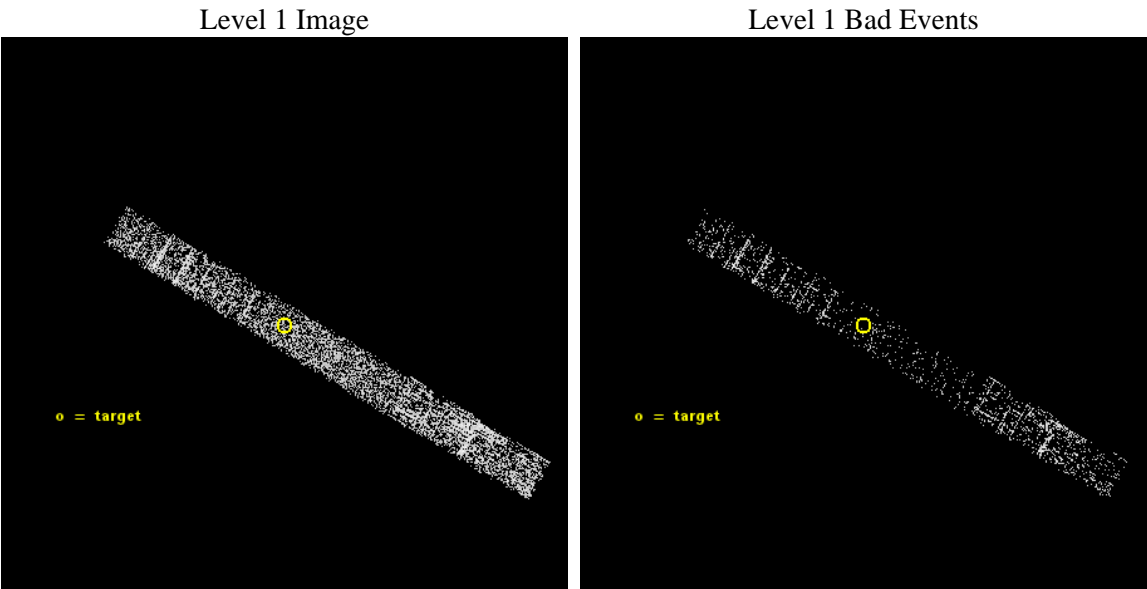
seq_num	702910	Sequence number
obs_id	15350	Observation id
title	Clarifying the Nature of Weak-Line Quasars with Chandra Spectroscopy and Snapshots	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1303+3219	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	195.80375	Observer's specified target RA [deg]
dec_targ	32.319833	Observer's specified target Dec [deg]
ra_nom	195.80392302042	Nominal RA [deg]
dec_nom	32.322941751681	Nominal Dec [deg]
roll_nom	30.156442911545	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2094.1922572851	Sum of GTIs [s]
livetime	2002.8617609842	Livetime [s]
ontime6	2094.1512172818	Sum of GTIs [s]
ontime7	2094.1922572851	Sum of GTIs [s]
ontime8	2094.1101772785	Sum of GTIs [s]
l2events	2136	Number of level 2 events



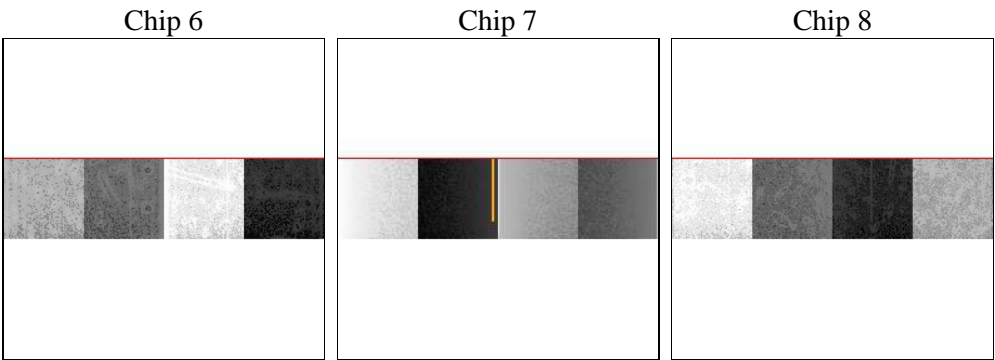
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	2094.1922572851	Sum of GTIs [s]
caldsver	4.6.4	 	ontime6	2094.1512172818	Sum of GTIs [s]
date	2014-11-30T23:46:24	Date and time of file creation	ontime7	2094.1922572851	Sum of GTIs [s]
revision	3	Processing version of data	ontime8	2094.1101772785	Sum of GTIs [s]
			l1events	10822	Number of level 1 events

2.1.4 Events

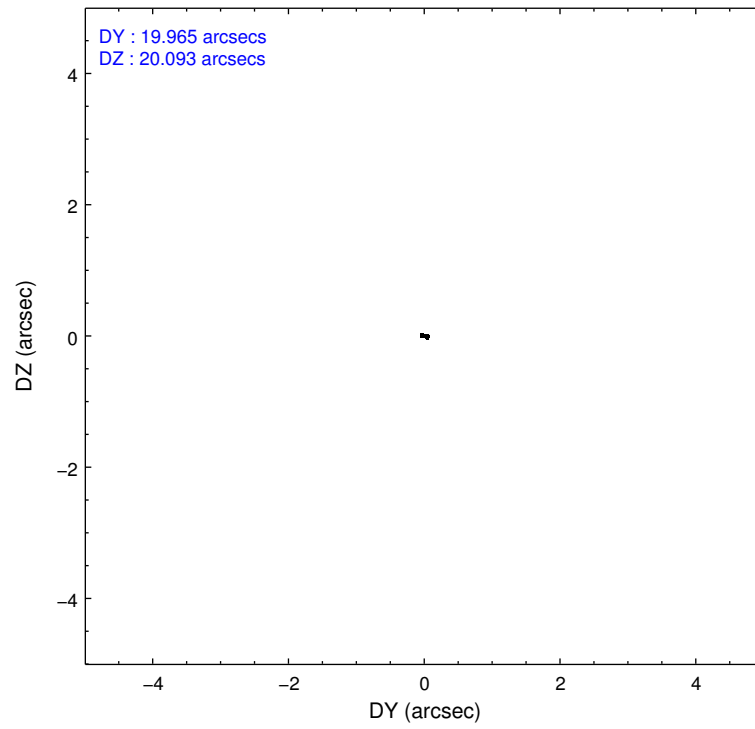
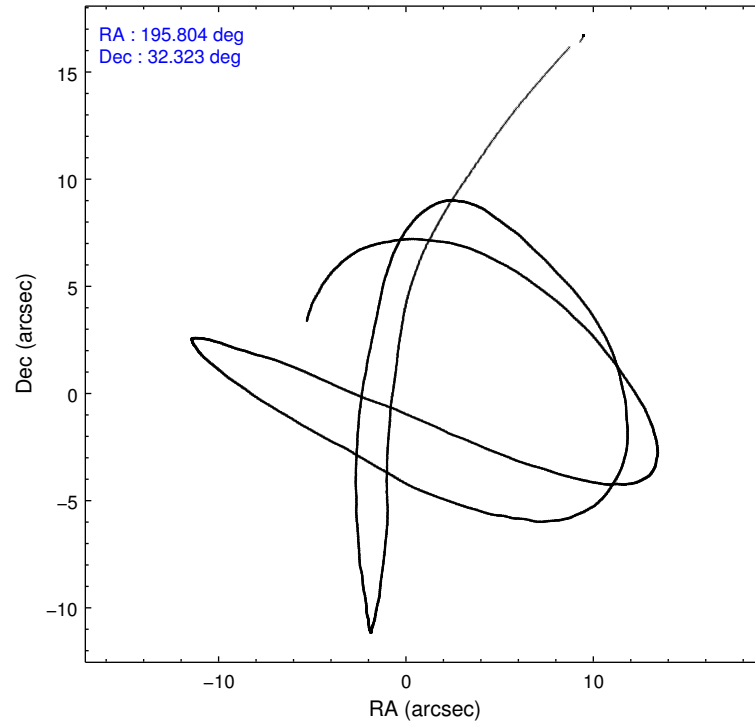
	ccd 6	ccd 7	ccd 8
level 1 events	3229	3061	4532
rejected events	2849	1493	3376
rejected %	88%	48%	74%

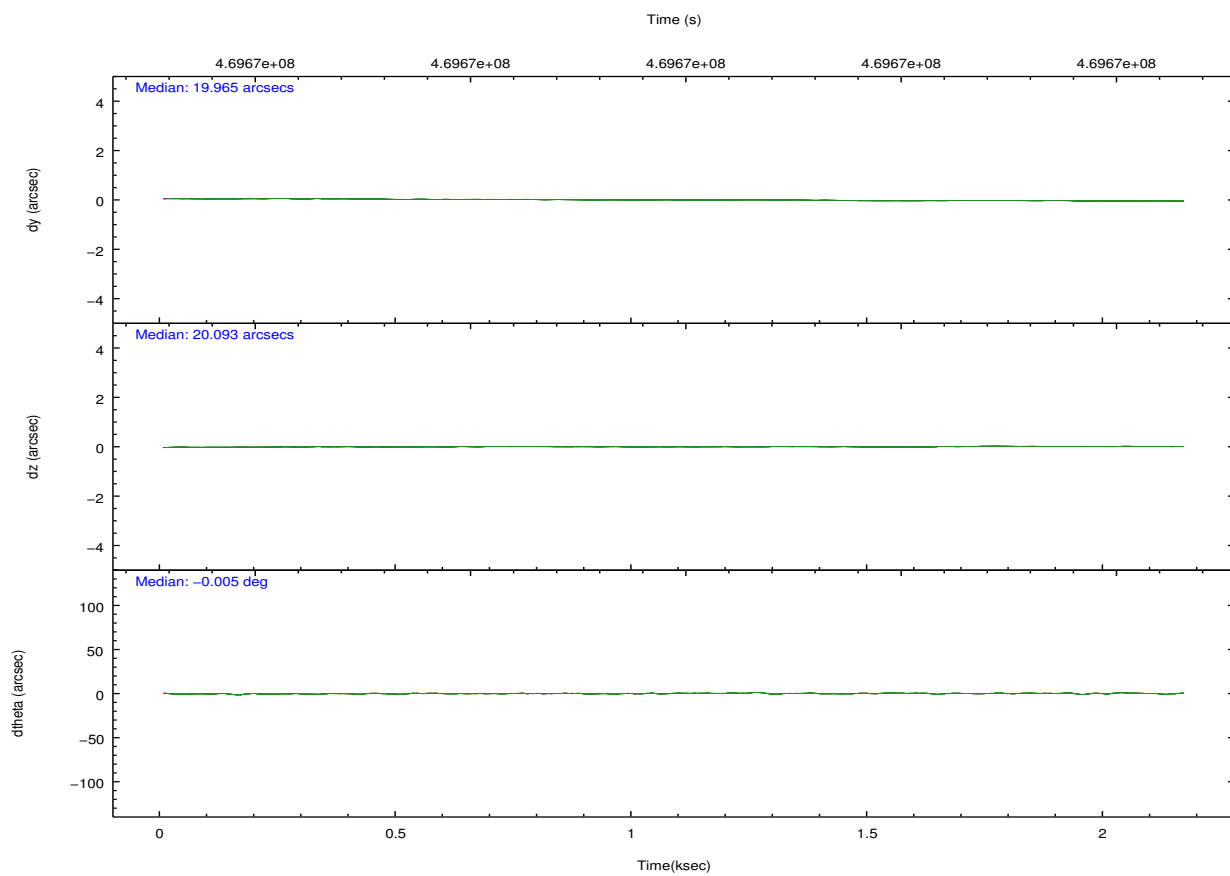
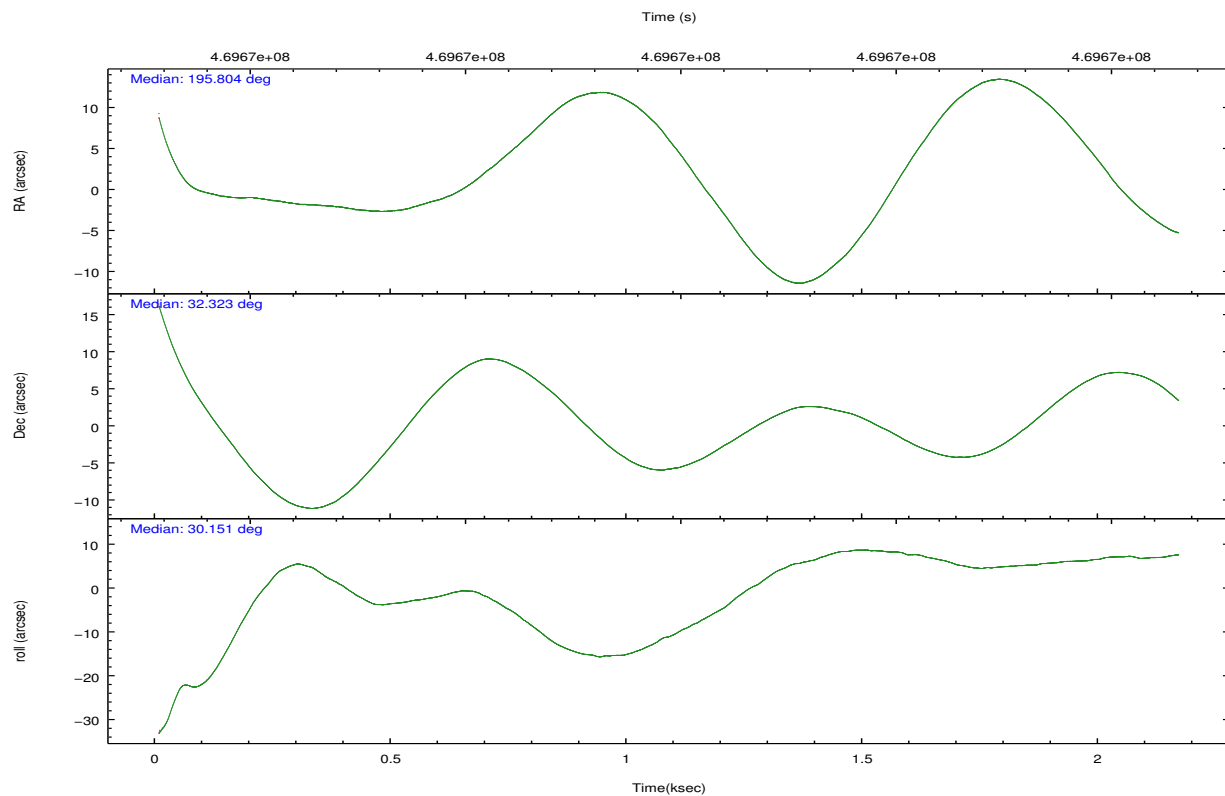
	ccd 6	ccd 7	ccd 8
grade 0 events	136	155	277
	4%	5%	6%
grade 1 events	1	6	2
	0%	0%	0%
grade 2 events	86	342	242
	2%	11%	5%
grade 3 events	39	177	153
	1%	5%	3%
grade 4 events	60	169	148
	1%	5%	3%
grade 5 events	116	313	192
	3%	10%	4%
grade 6 events	60	726	336
	1%	23%	7%
grade 7 events	2731	1173	3182
	84%	38%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	195.788184	195.8039230204201	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	32.298962	32.32294175168077	Subarray start row	385	385
[deg] Pointing Roll	30.008315	30.15644291154454	Subarray row count	256	256
[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	0.9
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	469672558.184000	469671549.69133			
Observation start date	2012-11-19T00:34:51	2012-11-19T00:19:09			
[s] Observation end time (MET)	469674558.184000	469675492.86655			
Observation end date	2012-11-19T01:08:11	2012-11-19T01:24:52			
Read mode	TIMED	TIMED			

2.3 Aspect



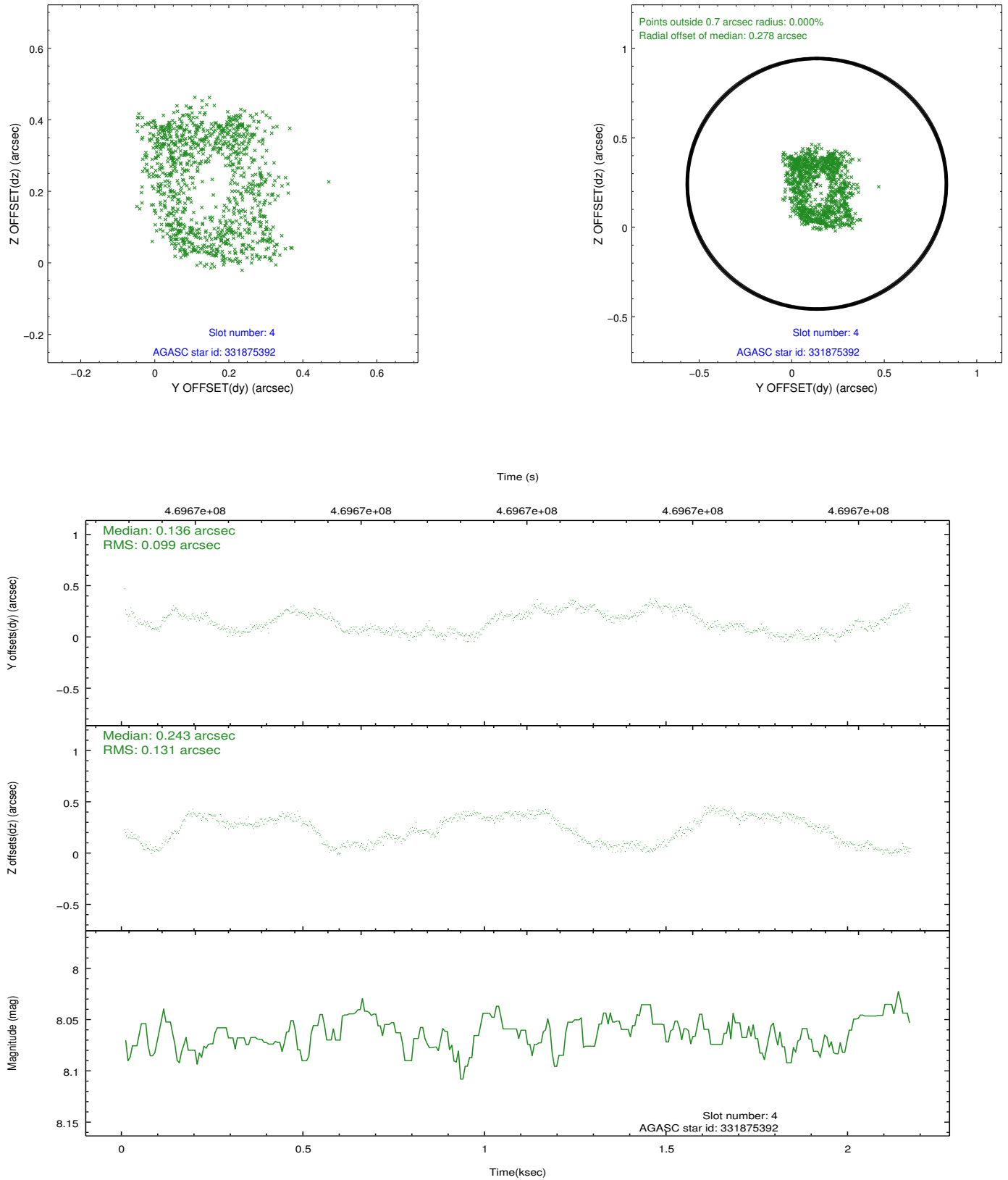


Slot Statistics

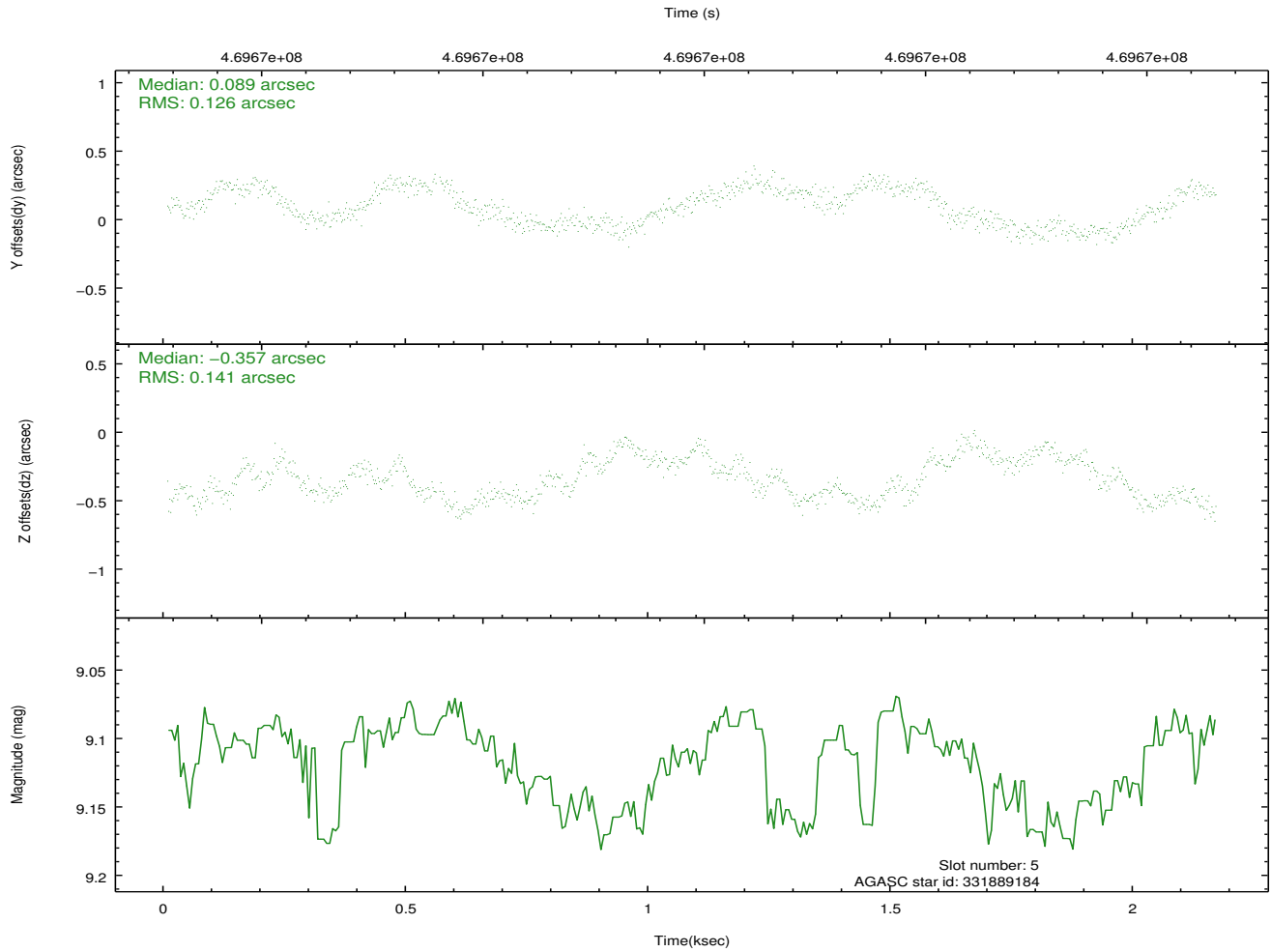
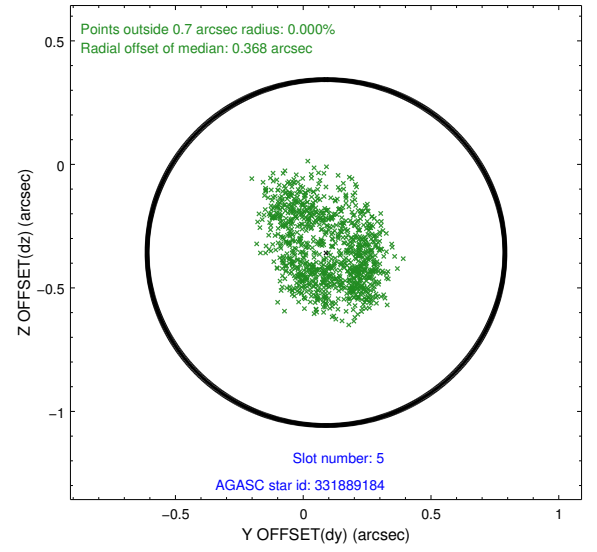
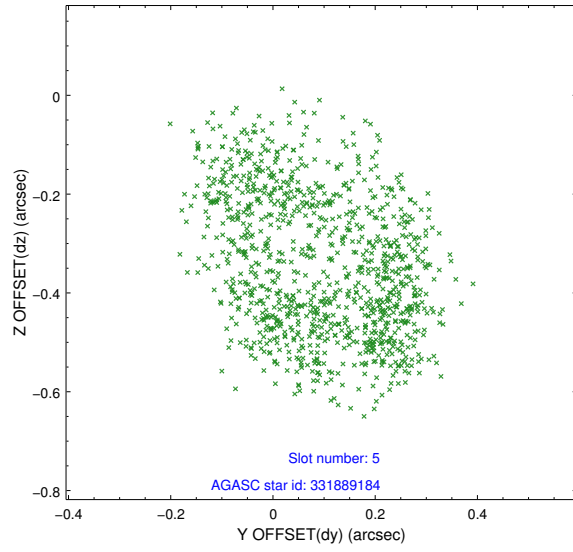
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.01	528	0.158	0.003	0.006	0.010	0.000000	0.000000	2140.43	167.14
1	FID		ACIS-S-5	7.05	528	-0.199	-0.002	0.007	0.012	0.000000	0.000000	-1822.26	160.85
2	FID		ACIS-S-6	7.15	528	0.014	0.014	0.007	0.013	0.000000	0.000000	385.26	804.63
3	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
4	GUIDE	used	331875392	8.06	1056	0.136	0.243	0.177	0.246	196.271647	32.025952	787.72	-1585.55
5	GUIDE	used	331889184	9.11	1052	0.089	-0.357	0.205	0.295	195.971564	32.920476	1599.34	1659.48
6	GUIDE	used	331889400	10.28	1055	-0.839	0.375	0.241	0.387	194.991181	32.600624	-1545.60	2159.26
7	GUIDE	used	331885264	10.44	1029	0.572	-0.261	0.375	0.564	194.888440	32.601792	-1813.58	2320.76

2.4 Star Slots

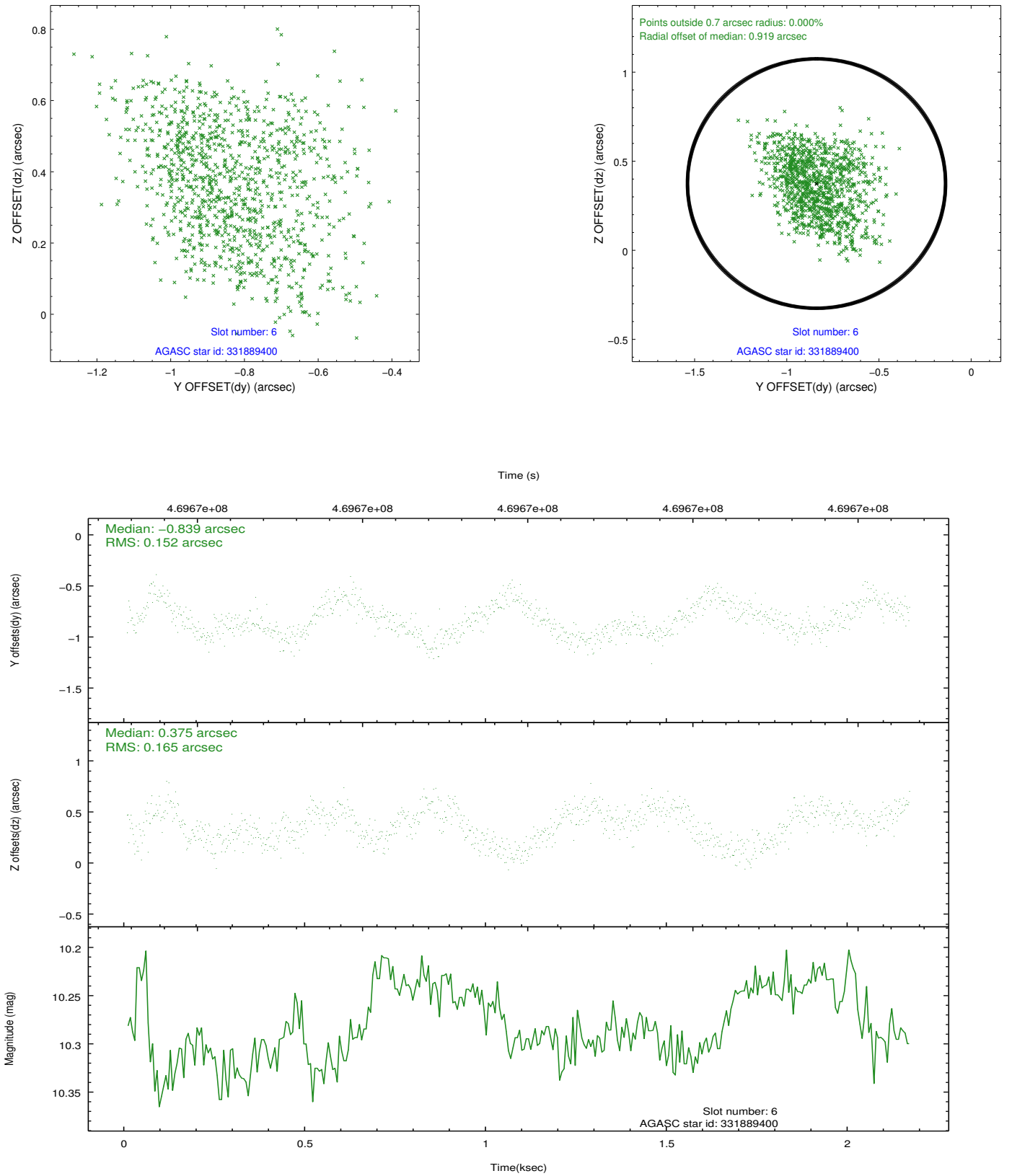
2.4.1 Slot 4



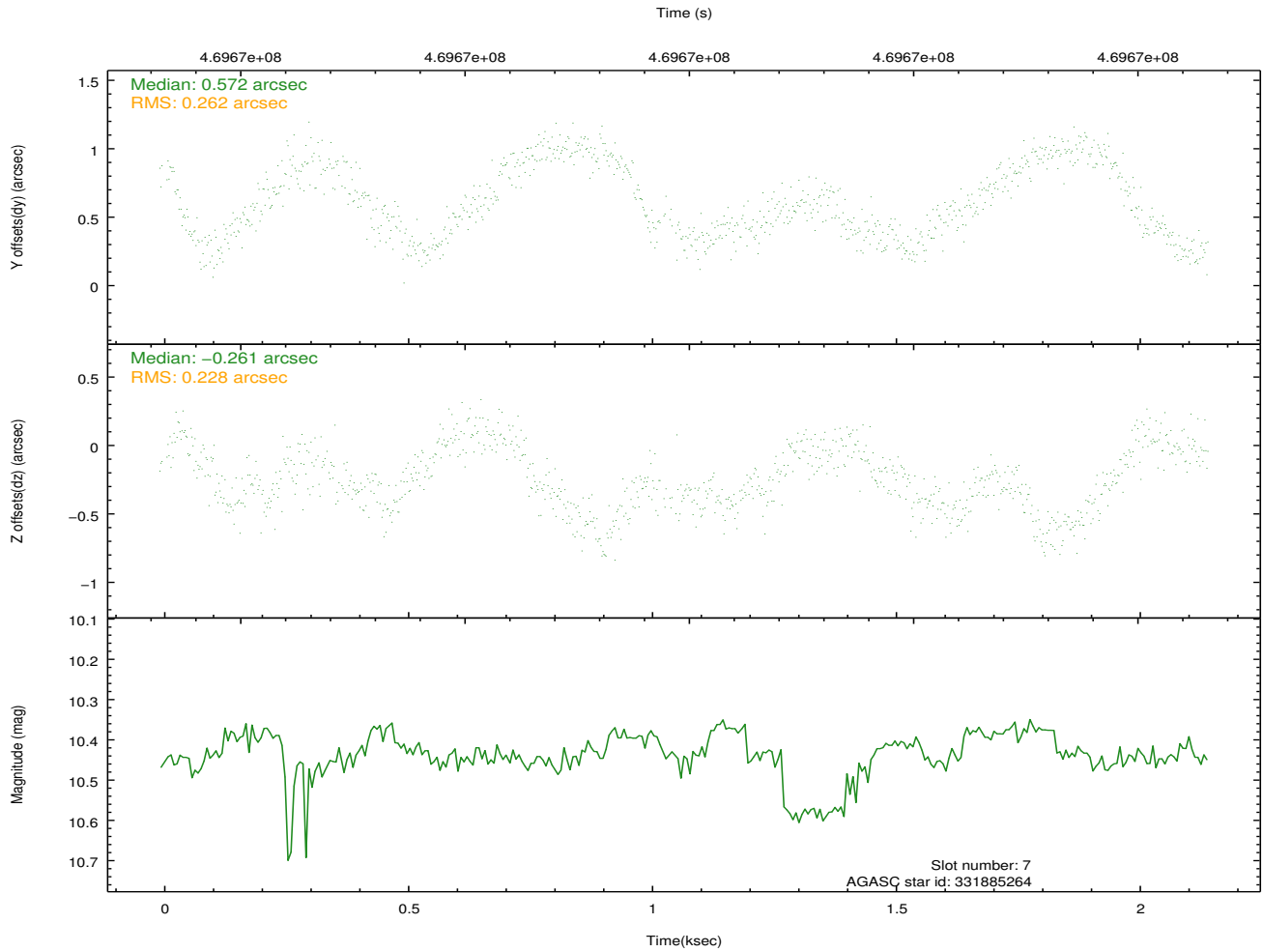
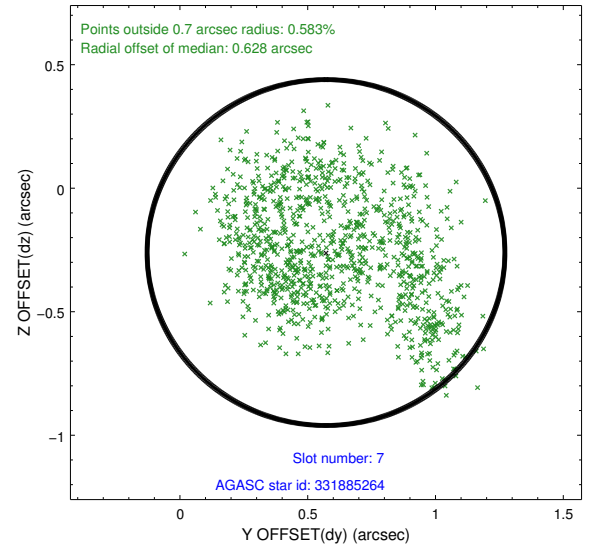
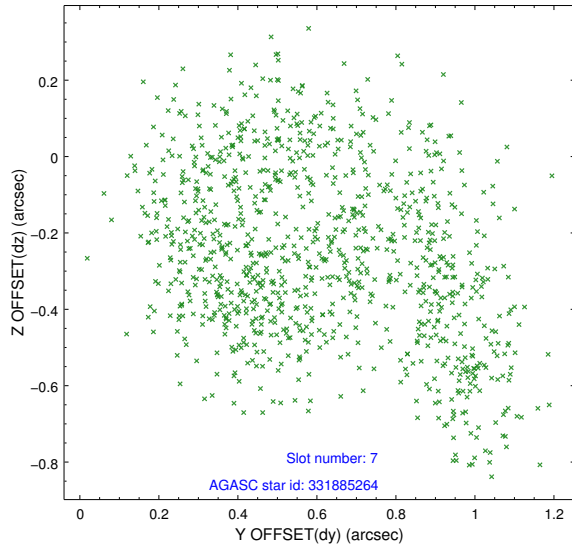
2.4.2 Slot 5



2.4.3 Slot 6

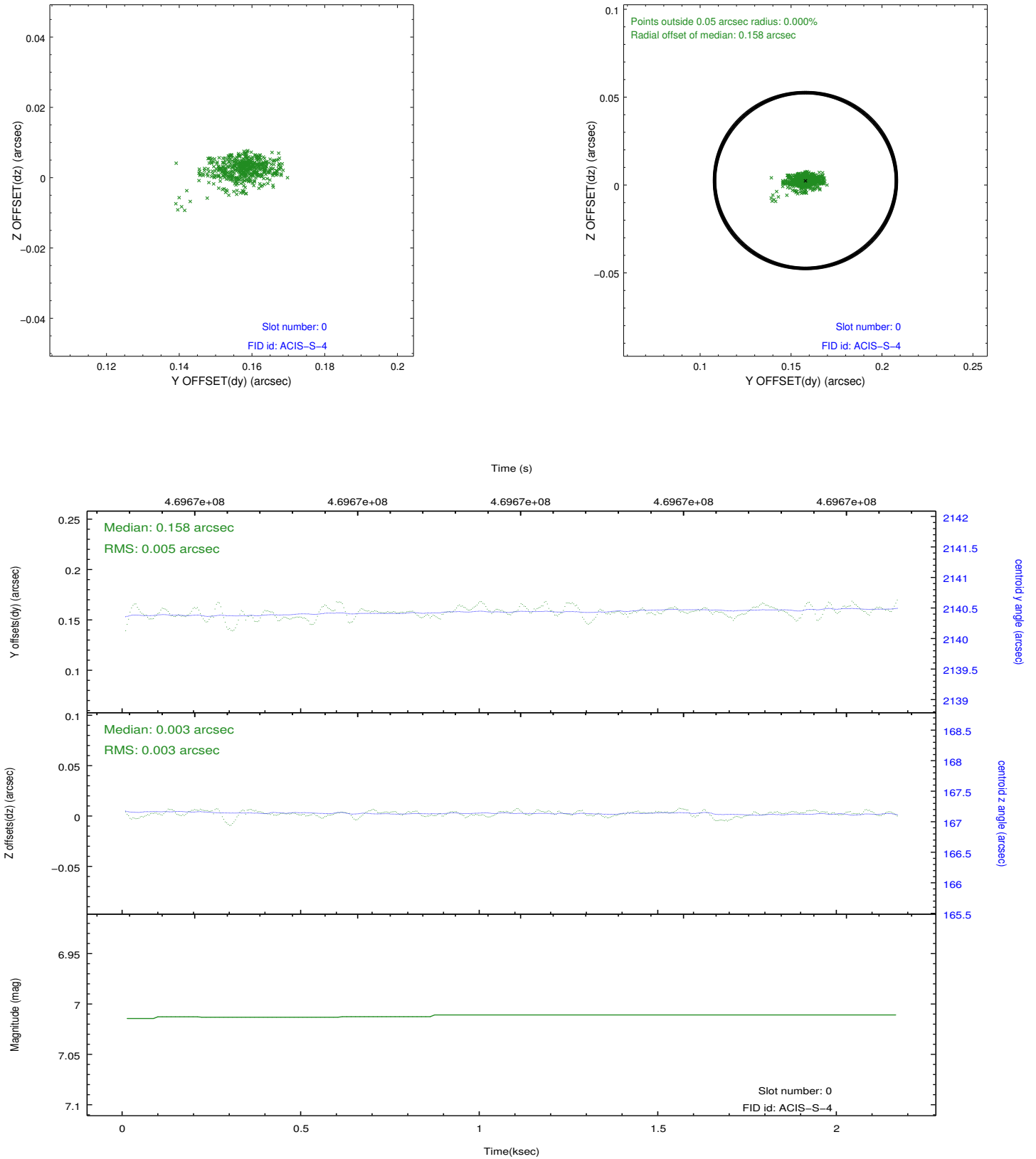


2.4.4 Slot 7

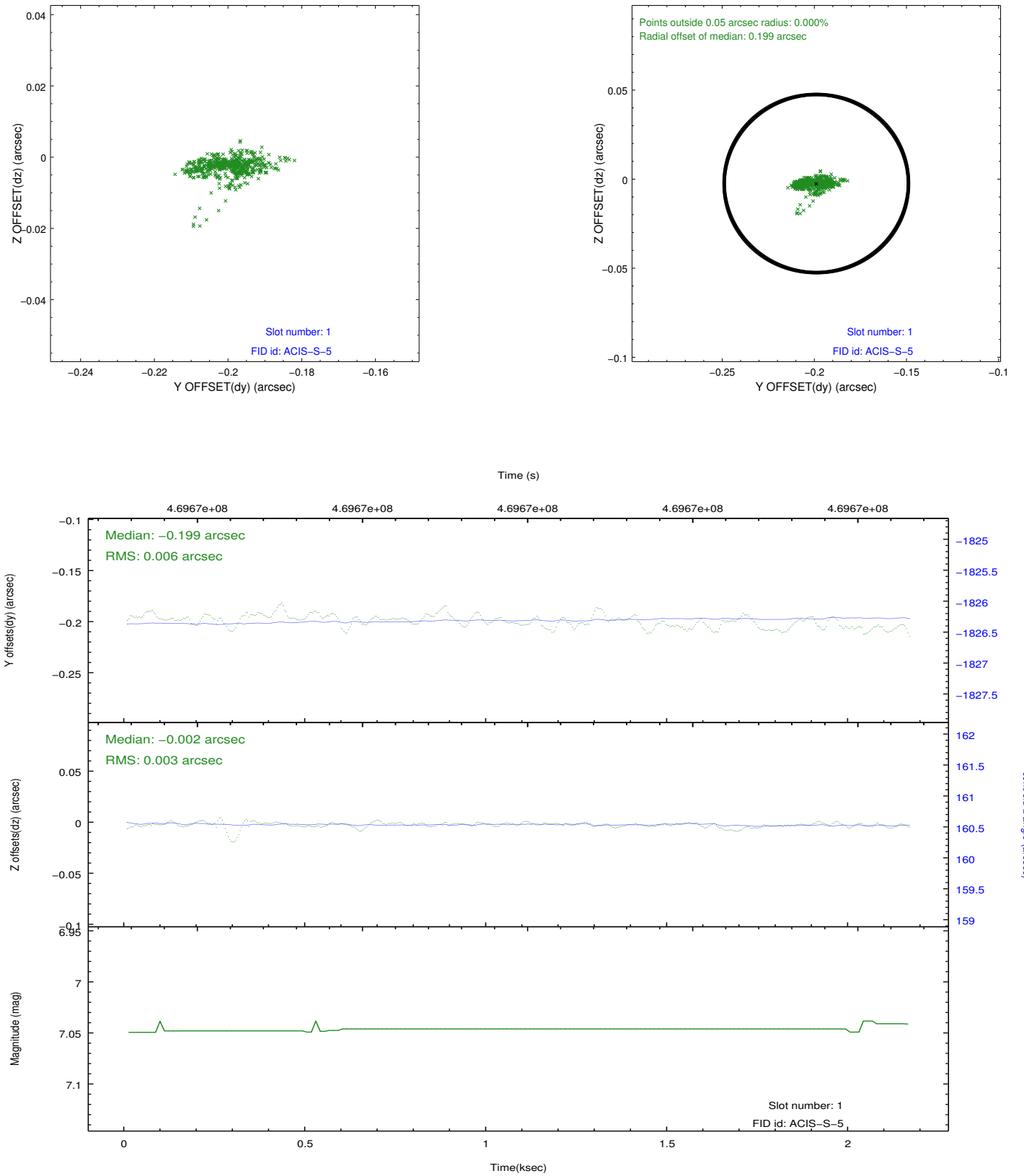


2.5 FID Slots

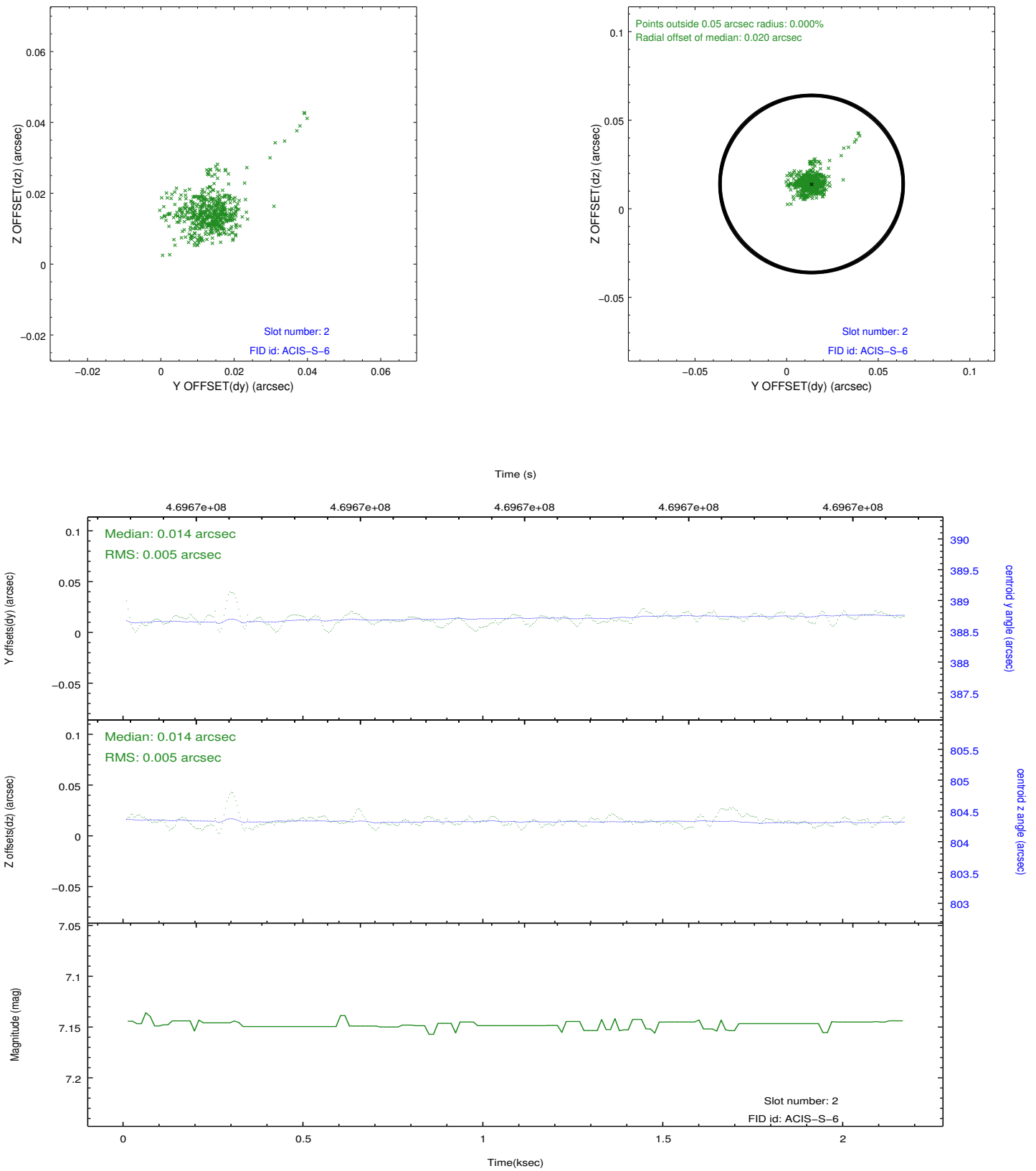
2.5.1 Slot 0



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)	2014.12.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.0941922572851

A.2 Comments

The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.

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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.