

V&V Reference Report

L2 ASCDS Version : 10

Observation 15295 - L2 Version 2
Chandra X-Ray Center

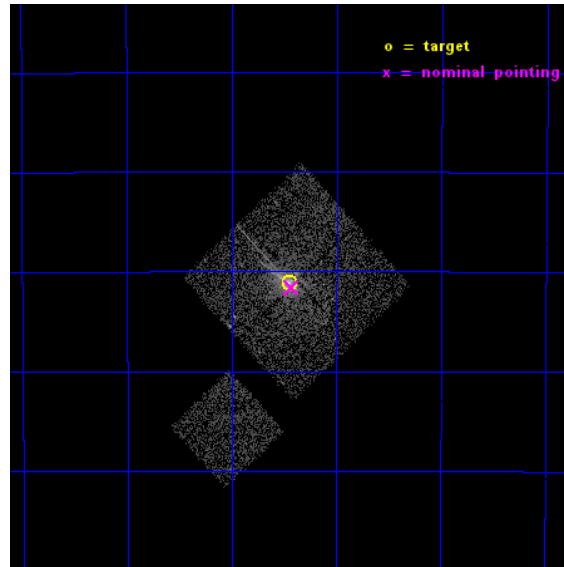
L2 Processing Date : Dec 6 2014

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1 Front

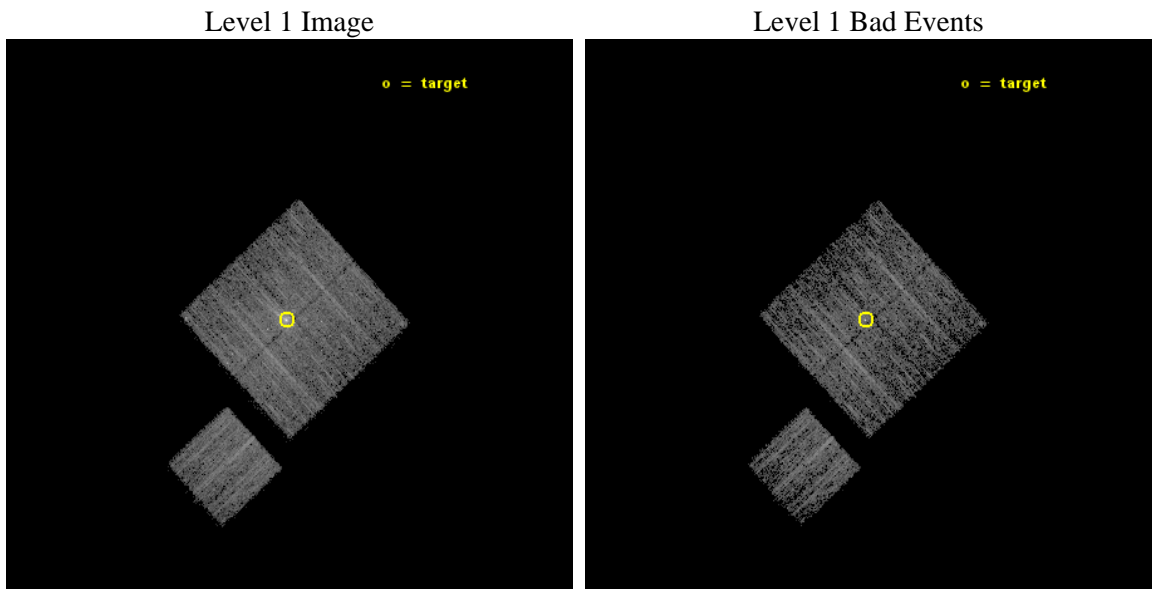
seq_num	702891	Sequence number
obs_id	15295	Observation id
title	Longterm Monitoring of the Jet in Centaurus A	Proposal title
observer	Dr Stephen Murray	Principal investigator
object	Centaurus A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	201.3625	Observer's specified target RA [deg]
dec_targ	-43.018889	Observer's specified target Dec [deg]
ra_nom	201.35767573663	Nominal RA [deg]
dec_nom	-43.026627952893	Nominal Dec [deg]
roll_nom	226.97328211842	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5353.3392879367	Sum of GTIs [s]
livetime	5283.3939690687	Livetime [s]
ontime0	5353.2161679268	Sum of GTIs [s]
ontime1	5353.2572079301	Sum of GTIs [s]
ontime2	5353.2982479334	Sum of GTIs [s]
ontime3	5353.3392879367	Sum of GTIs [s]
ontime6	5353.1751279235	Sum of GTIs [s]
l2events	22900	Number of level 2 events



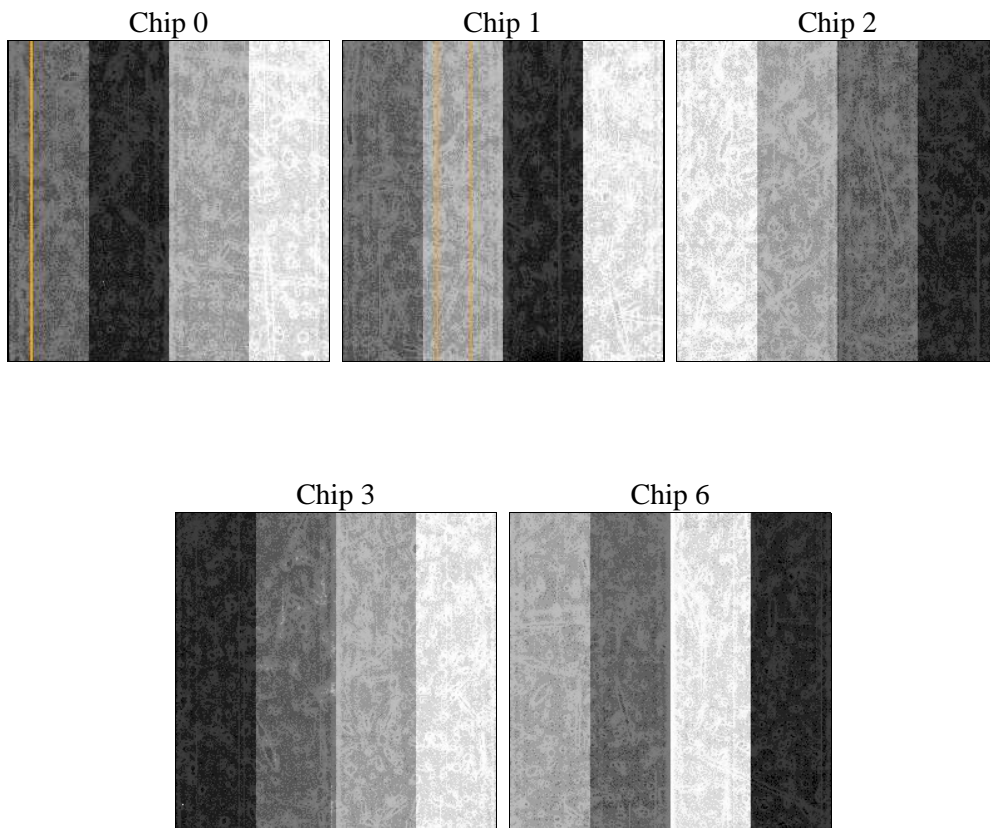
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5500.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	5353.3392879367	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	5353.2161679268	Sum of GTIs [s]
date	2014-12-06T08:21:28	Date and time of file creation	ontime1	5353.2572079301	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5353.2982479334	Sum of GTIs [s]
			ontime3	5353.3392879367	Sum of GTIs [s]
			ontime6	5353.1751279235	Sum of GTIs [s]
			l1events	138202	Number of level 1 events

2.1.4 Events

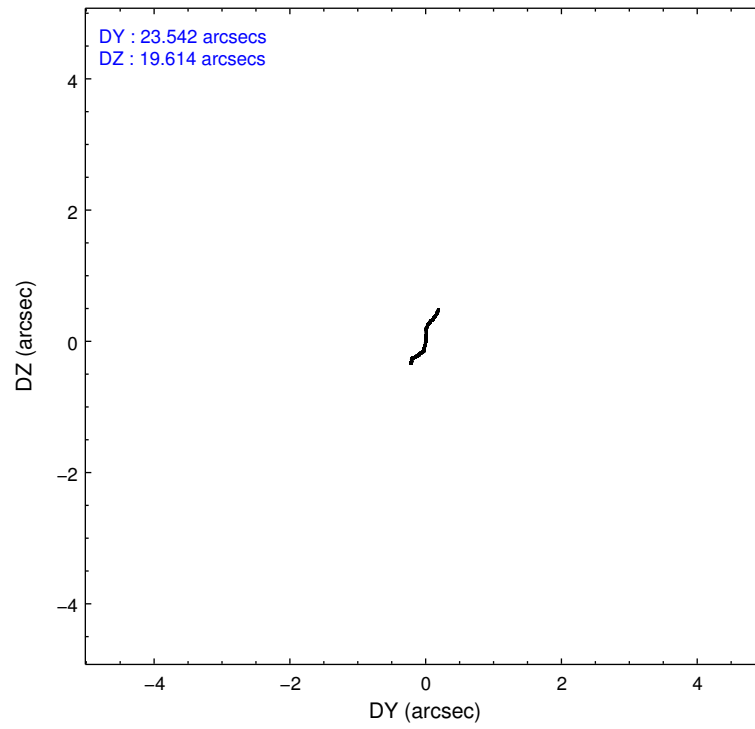
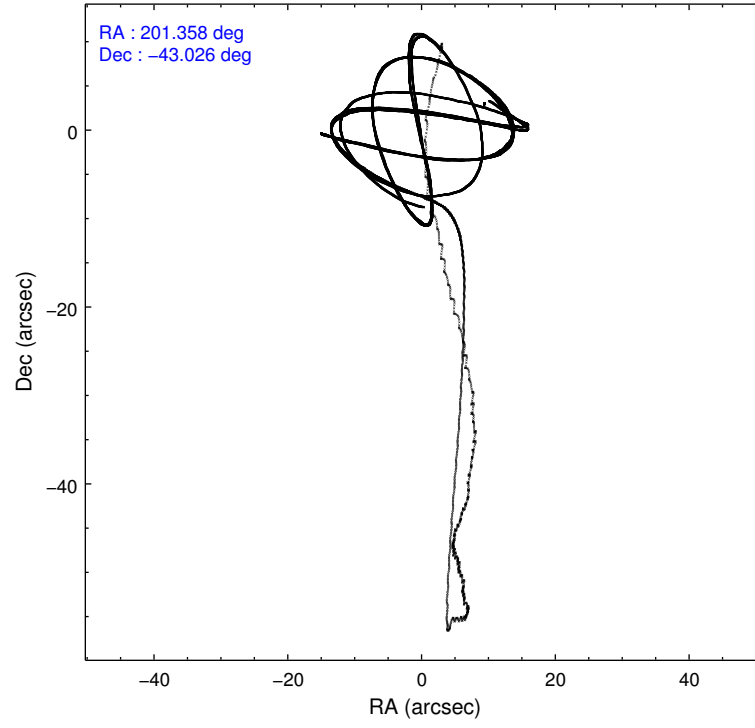
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	24492	25417	28089	33268	26936
rejected events	20554	21070	23328	23819	23610
rejected %	83%	82%	83%	71%	87%

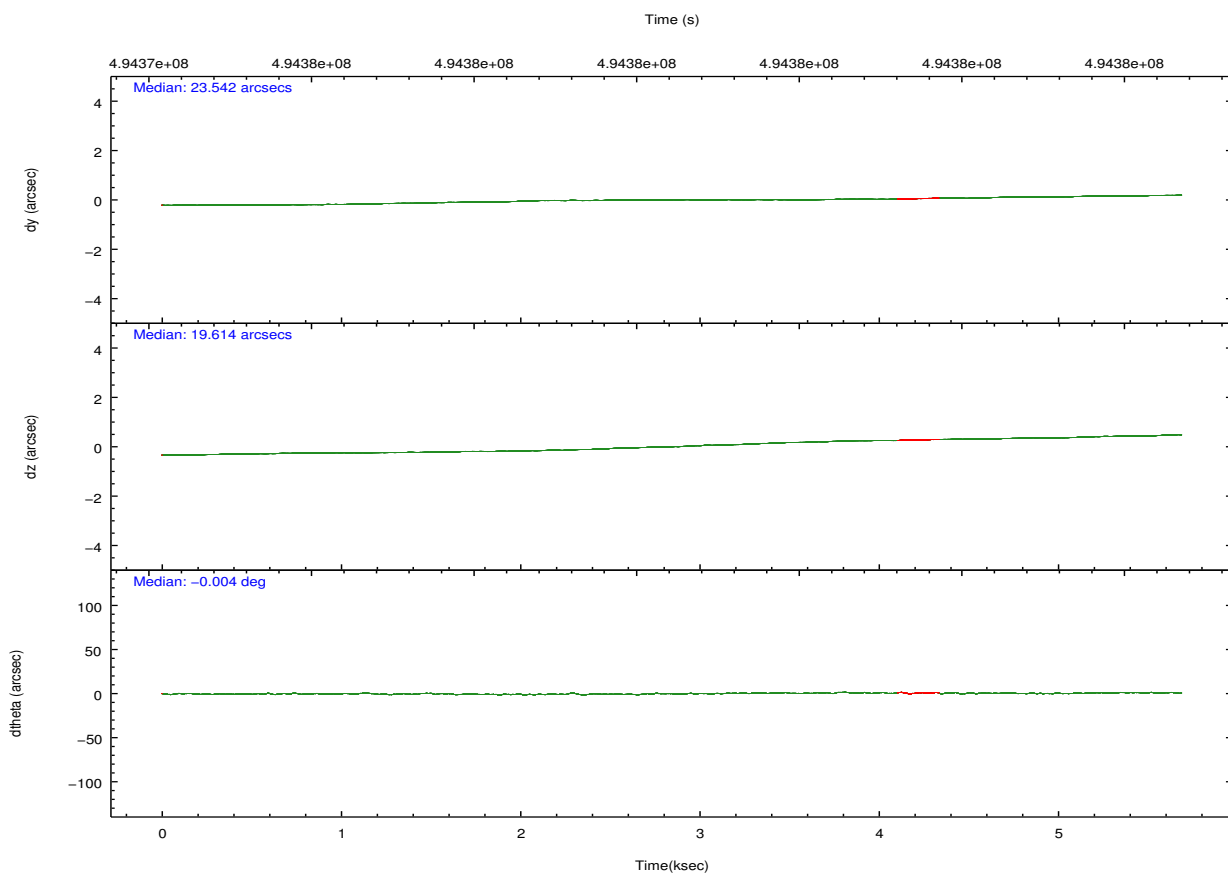
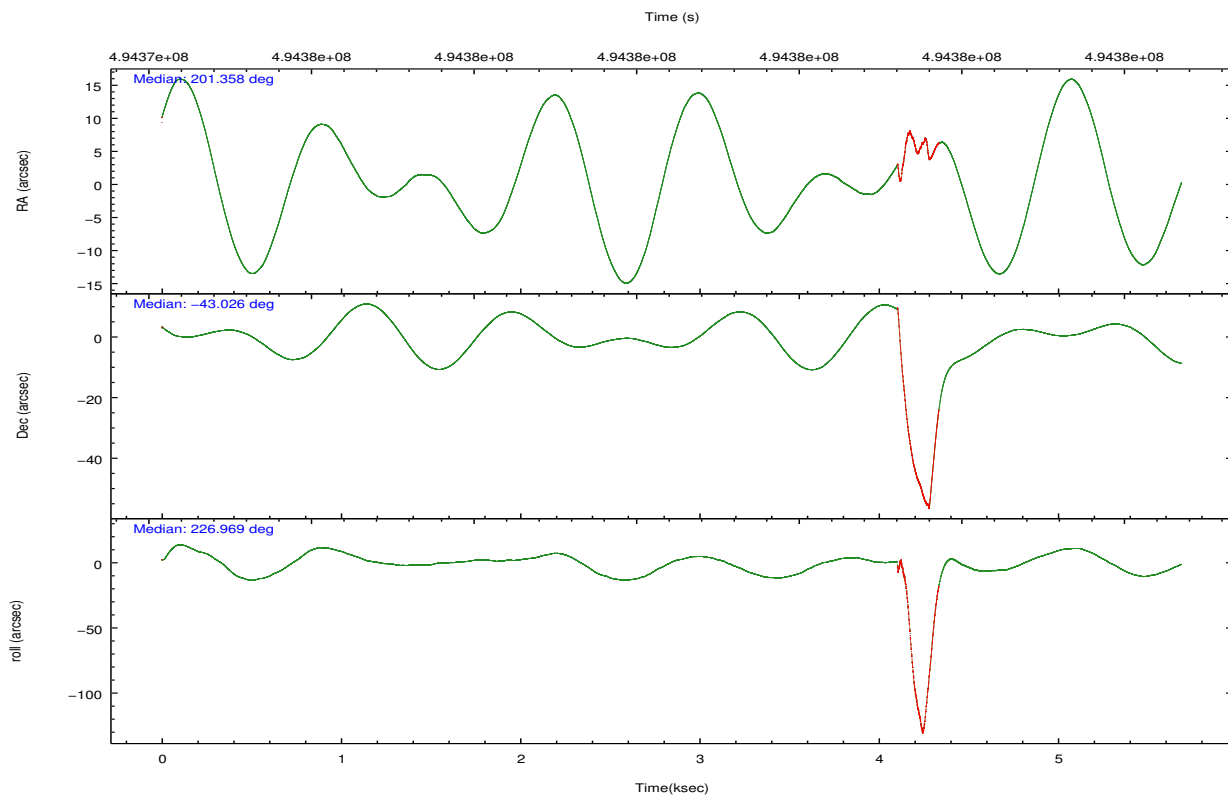
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1882	2030	2571	5837	1295
	7%	7%	9%	17%	4%
grade 1 events	15	12	31	169	12
	0%	0%	0%	0%	0%
grade 2 events	835	992	997	1461	724
	3%	3%	3%	4%	2%
grade 3 events	411	400	373	614	347
	1%	1%	1%	1%	1%
grade 4 events	316	369	350	659	355
	1%	1%	1%	1%	1%
grade 5 events	1195	1330	1128	1668	1393
	4%	5%	4%	5%	5%
grade 6 events	679	808	653	1264	763
	2%	3%	2%	3%	2%
grade 7 events	19159	19476	21986	21596	22047
	78%	76%	78%	64%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	201.366037	201.3576757366282	Subarray requested	NONE	NONE
[deg] Pointing Dec	-42.999353	-43.02662795289327	Alternating exposures requested	N	N
[deg] Pointing Roll	226.771085	226.9732821184242	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	494374554.184000	494373540.0665			
Observation start date	2013-08-31T22:14:47	2013-08-31T21:59:00			
[s] Observation end time (MET)	494380054.184000	494380968.75441			
Observation end date	2013-08-31T23:46:27	2013-09-01T00:02:48			
Read mode	TIMED	TIMED			

2.3 Aspect



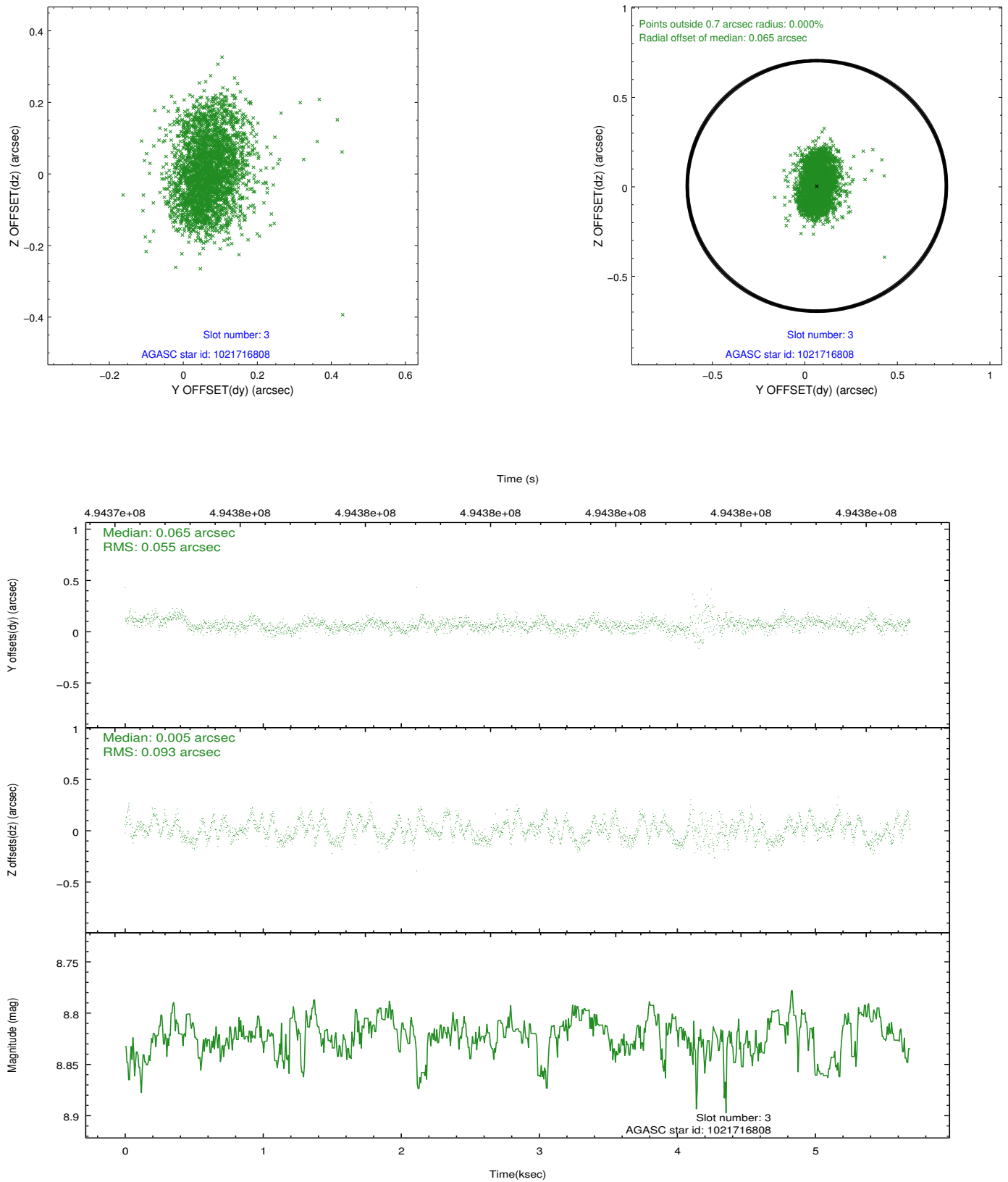


Slot Statistics

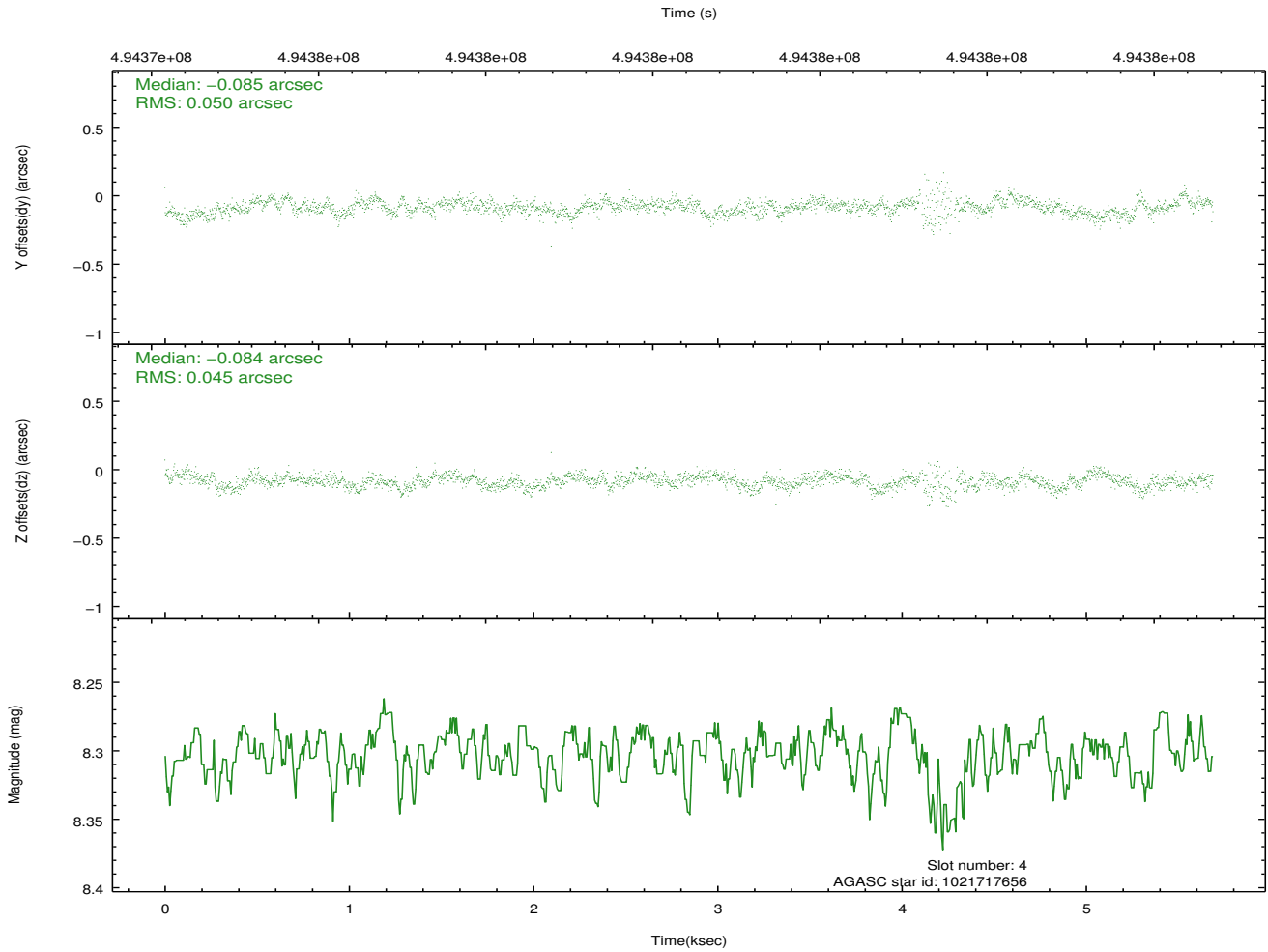
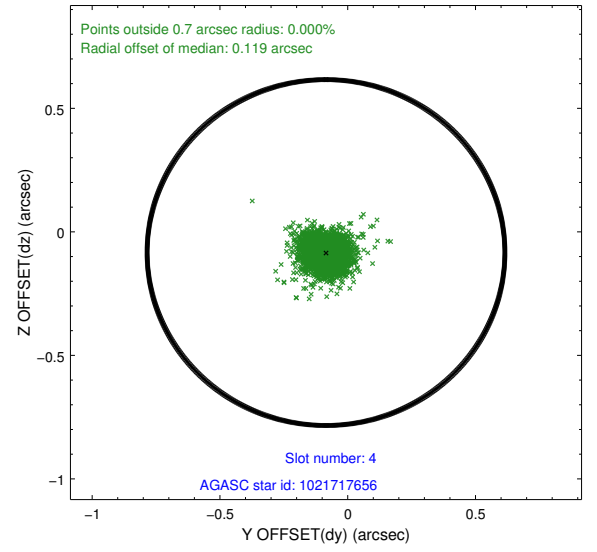
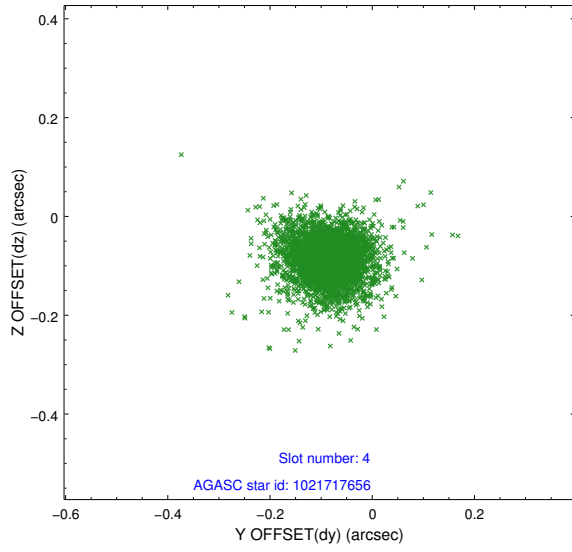
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.09	1388	0.045	0.007	0.016	0.026	0.000000	0.000000	915.79	-843.32
1	FID		ACIS-I-5	7.08	1388	-0.286	0.032	0.006	0.011	0.000000	0.000000	-1832.15	1053.55
2	FID		ACIS-I-6	7.09	1388	0.150	0.033	0.014	0.021	0.000000	0.000000	380.18	1699.34
3	GUIDE	used	1021716808	8.82	2765	0.065	0.005	0.114	0.184	200.901189	-42.531395	-380.46	-2050.98
4	GUIDE	used	1021717656	8.30	2756	-0.085	-0.084	0.069	0.116	201.139642	-43.082878	626.52	-228.81
5	GUIDE	used	1021719704	7.59	2763	-0.016	-0.078	0.091	0.159	200.511976	-43.050426	1680.84	-1503.88
6	GUIDE	used	1021721672	9.50	2750	-0.055	-0.064	0.165	0.251	201.740358	-43.079729	-461.80	915.28
7	GUIDE	used	1022235840	9.42	2746	0.097	0.214	0.162	0.266	201.679306	-43.544276	869.67	1940.14

2.4 Star Slots

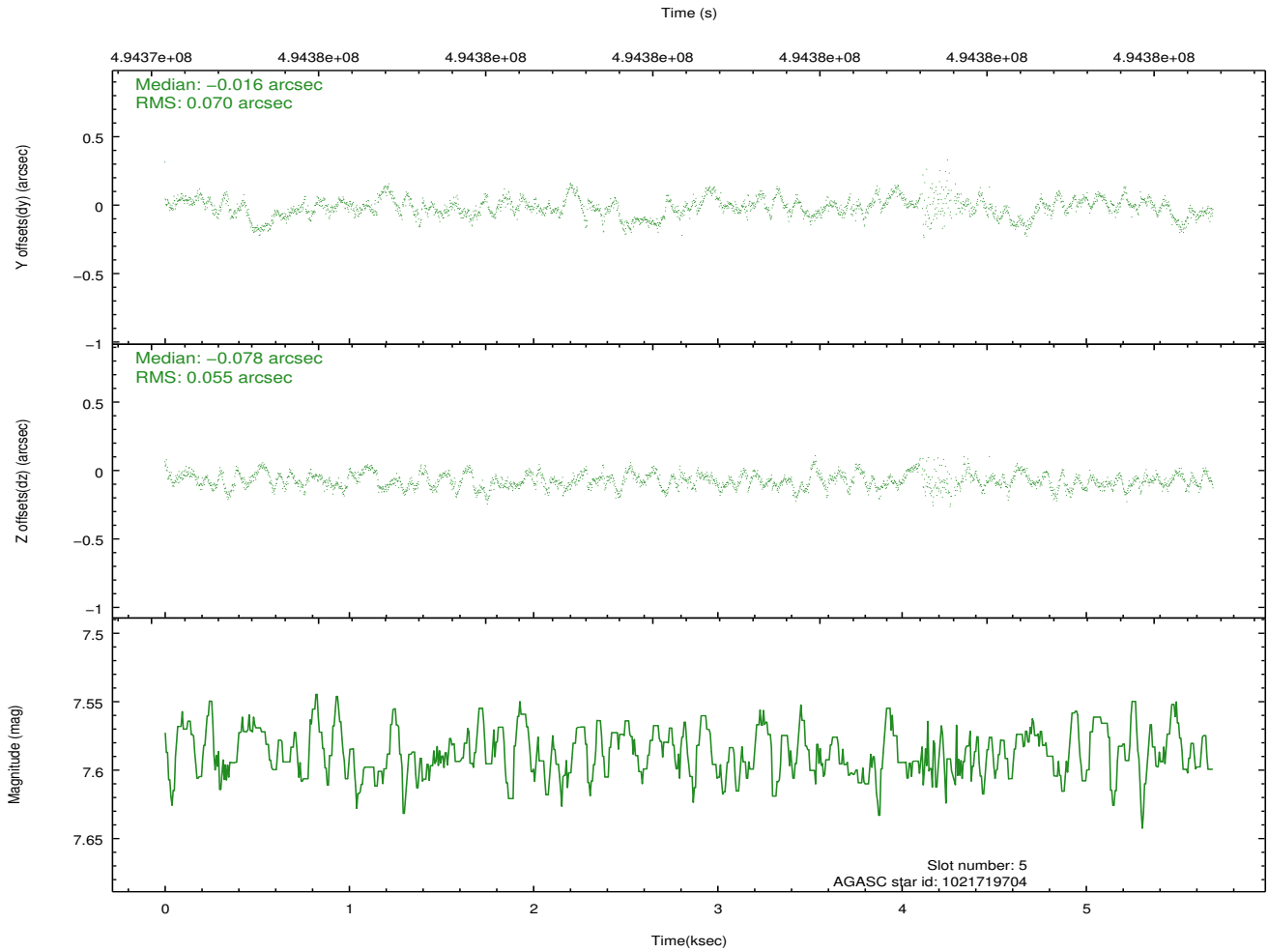
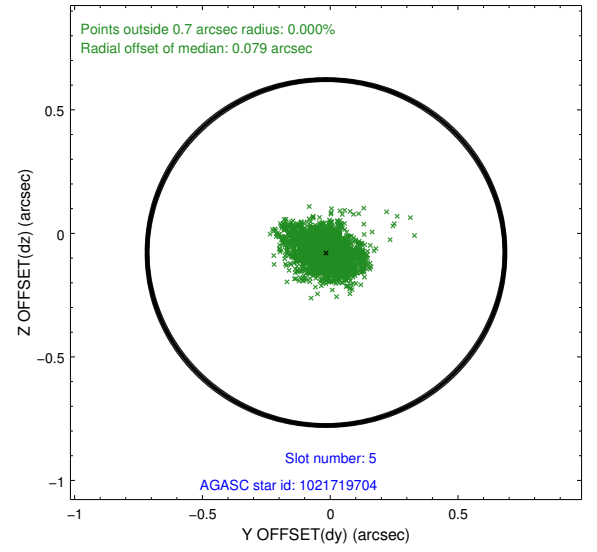
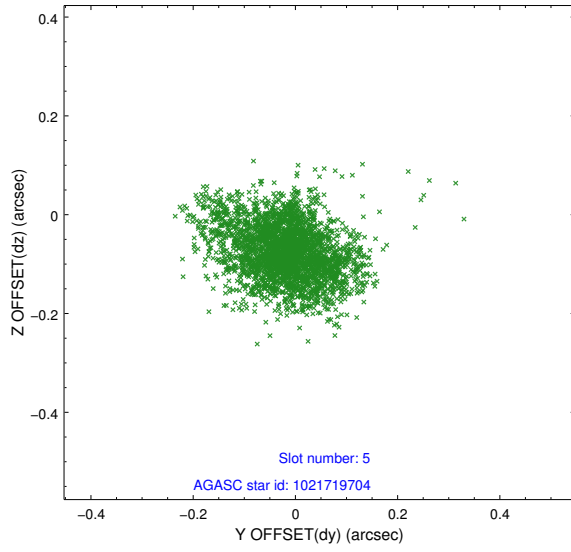
2.4.1 Slot 3



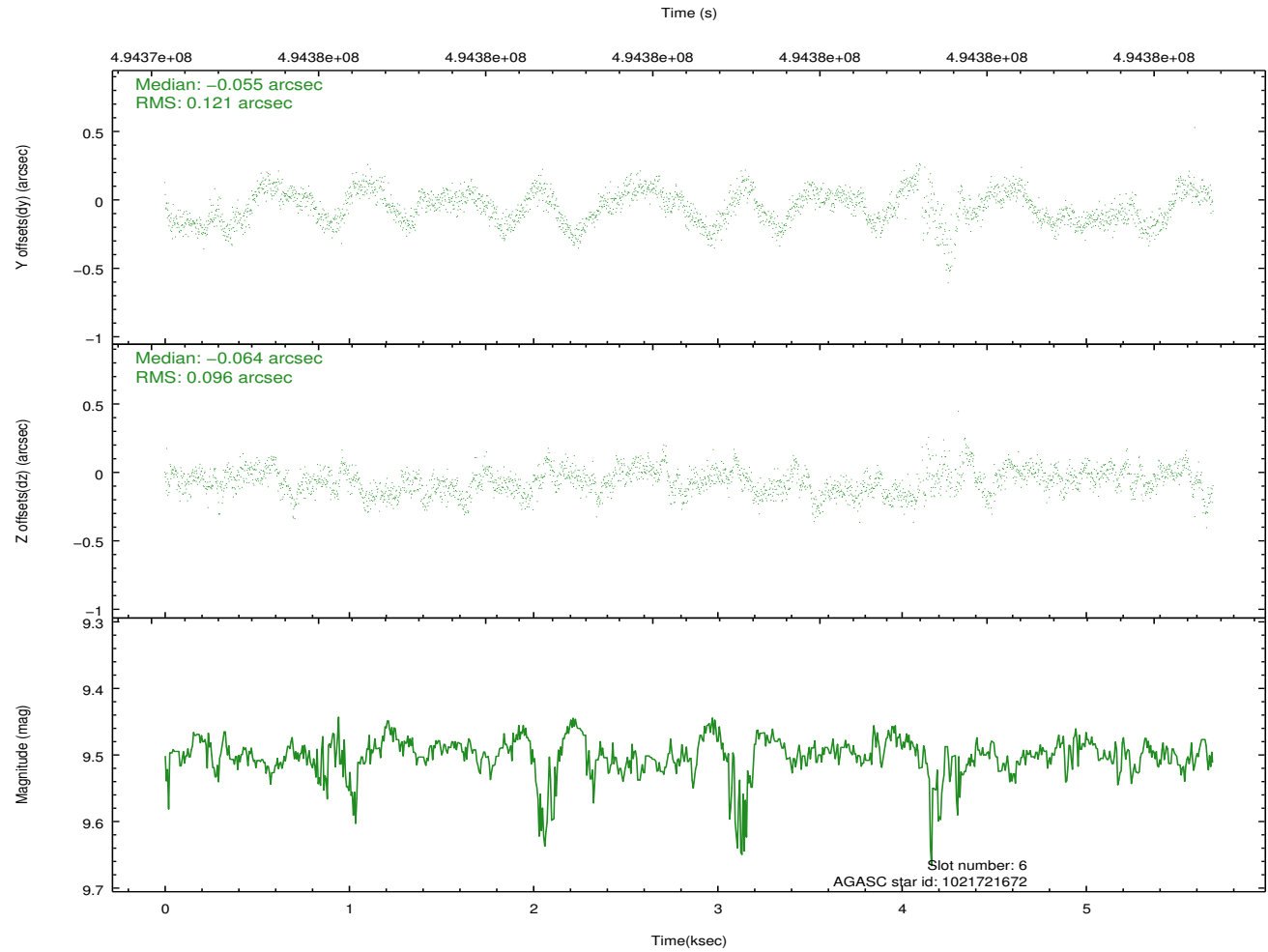
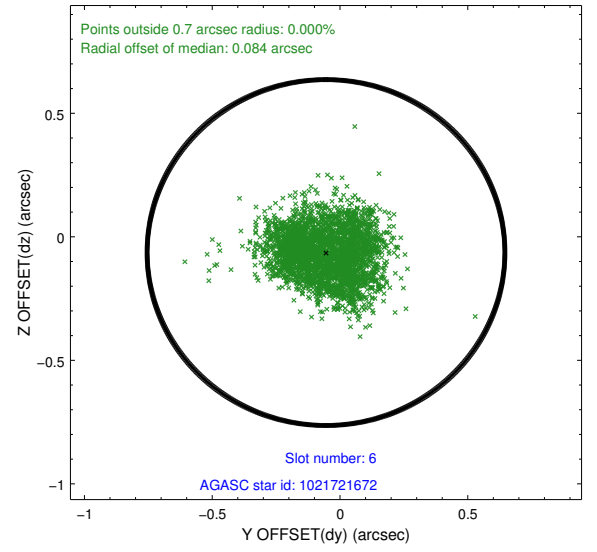
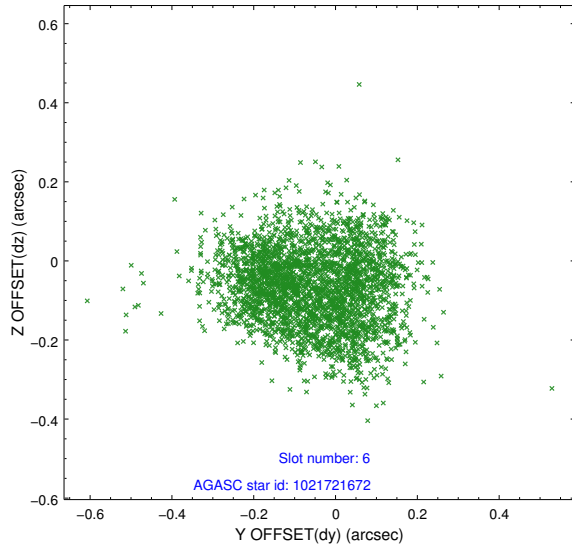
2.4.2 Slot 4



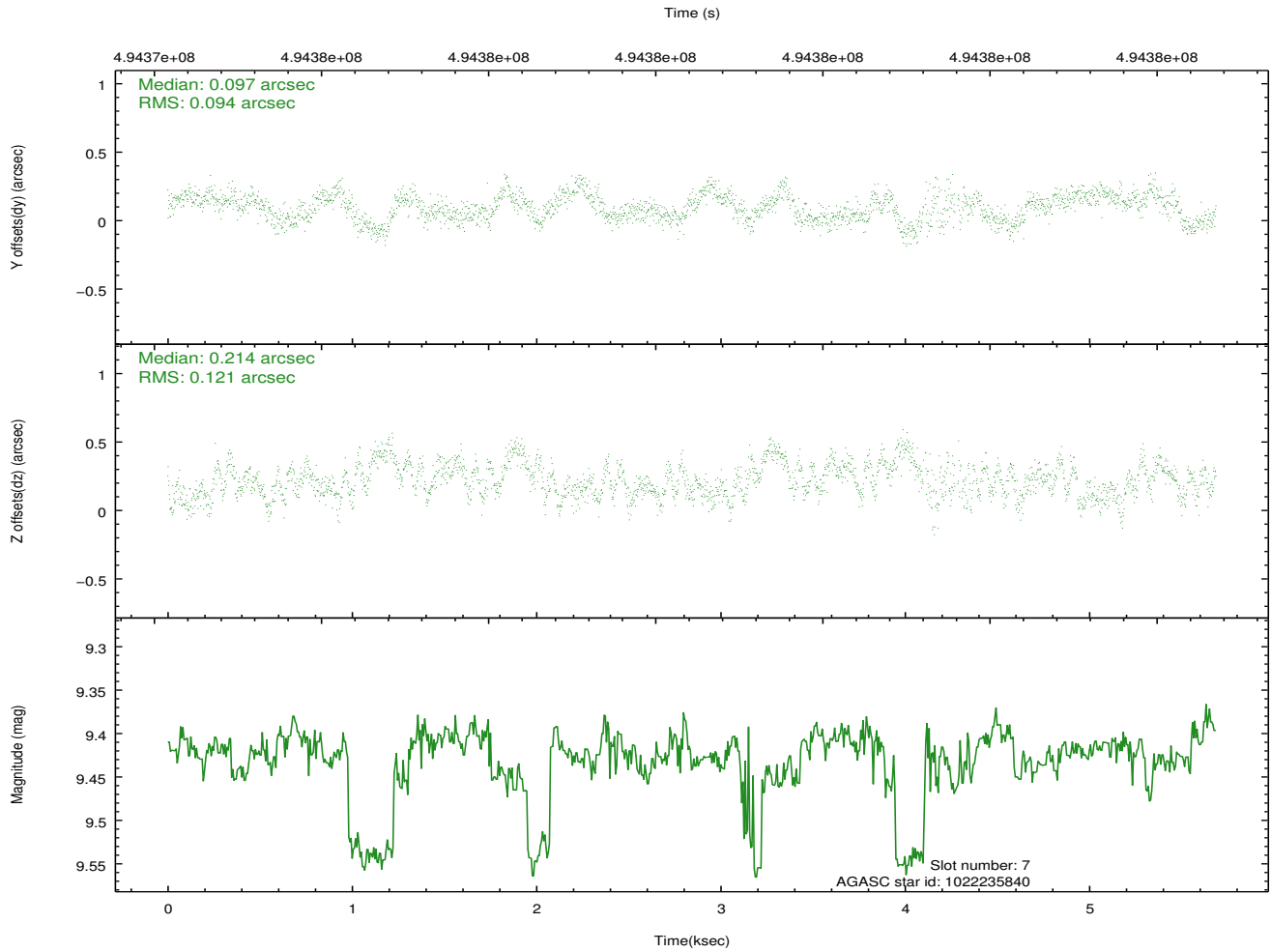
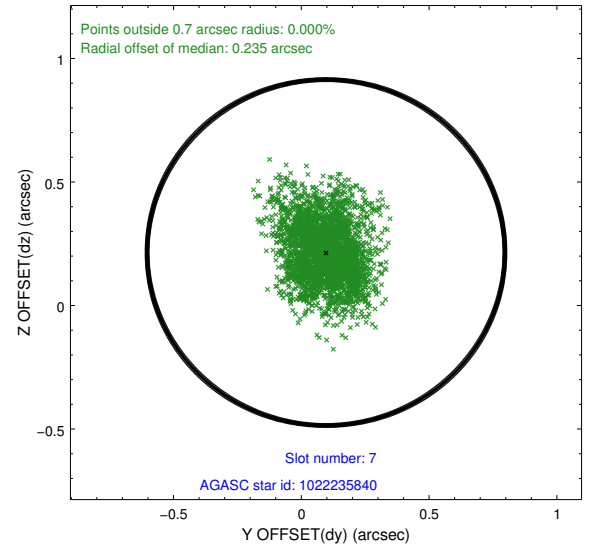
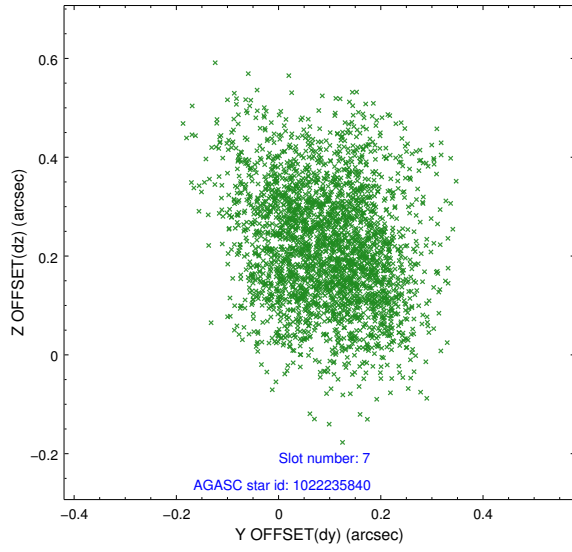
2.4.3 Slot 5



2.4.4 Slot 6

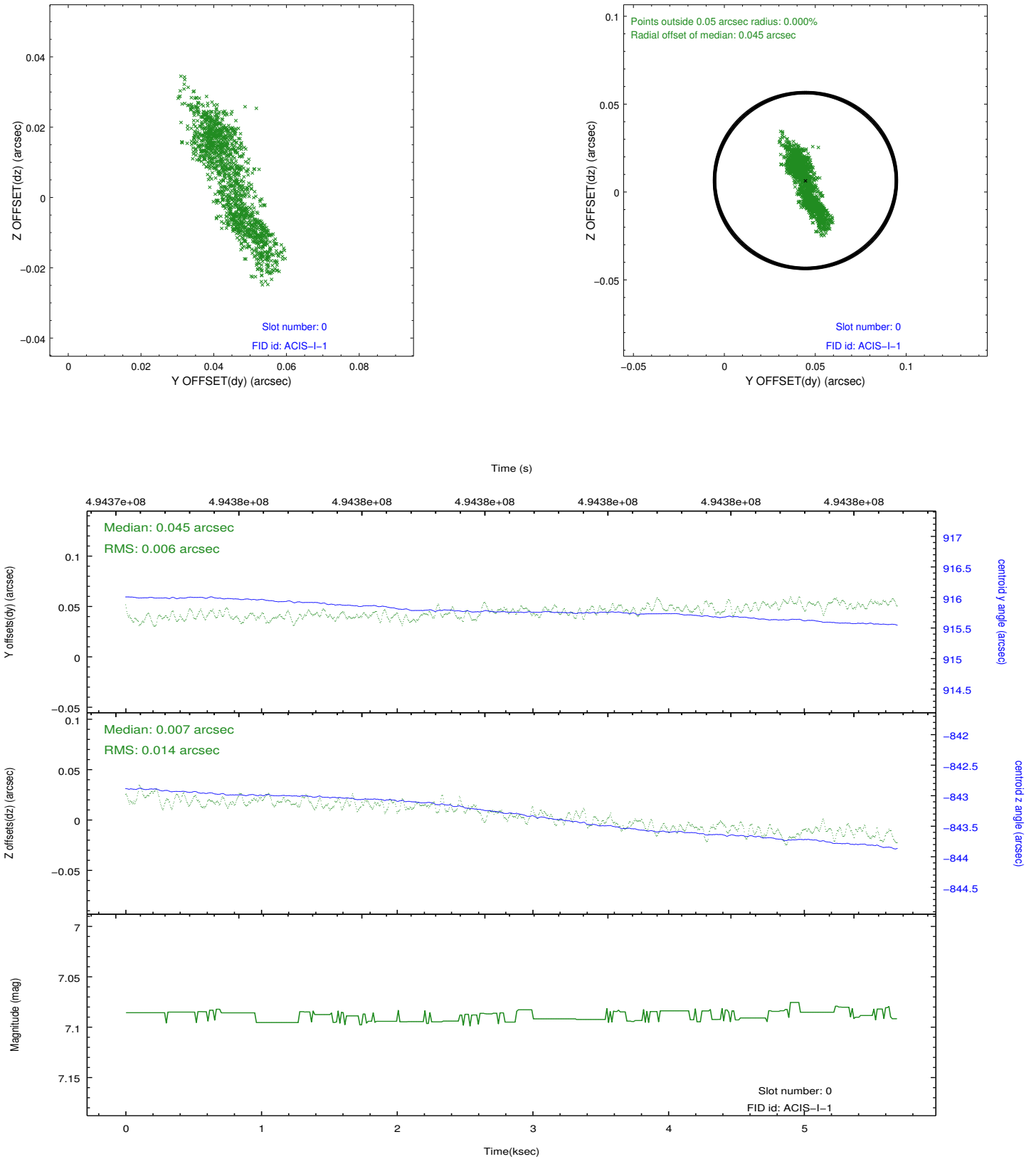


2.4.5 Slot 7

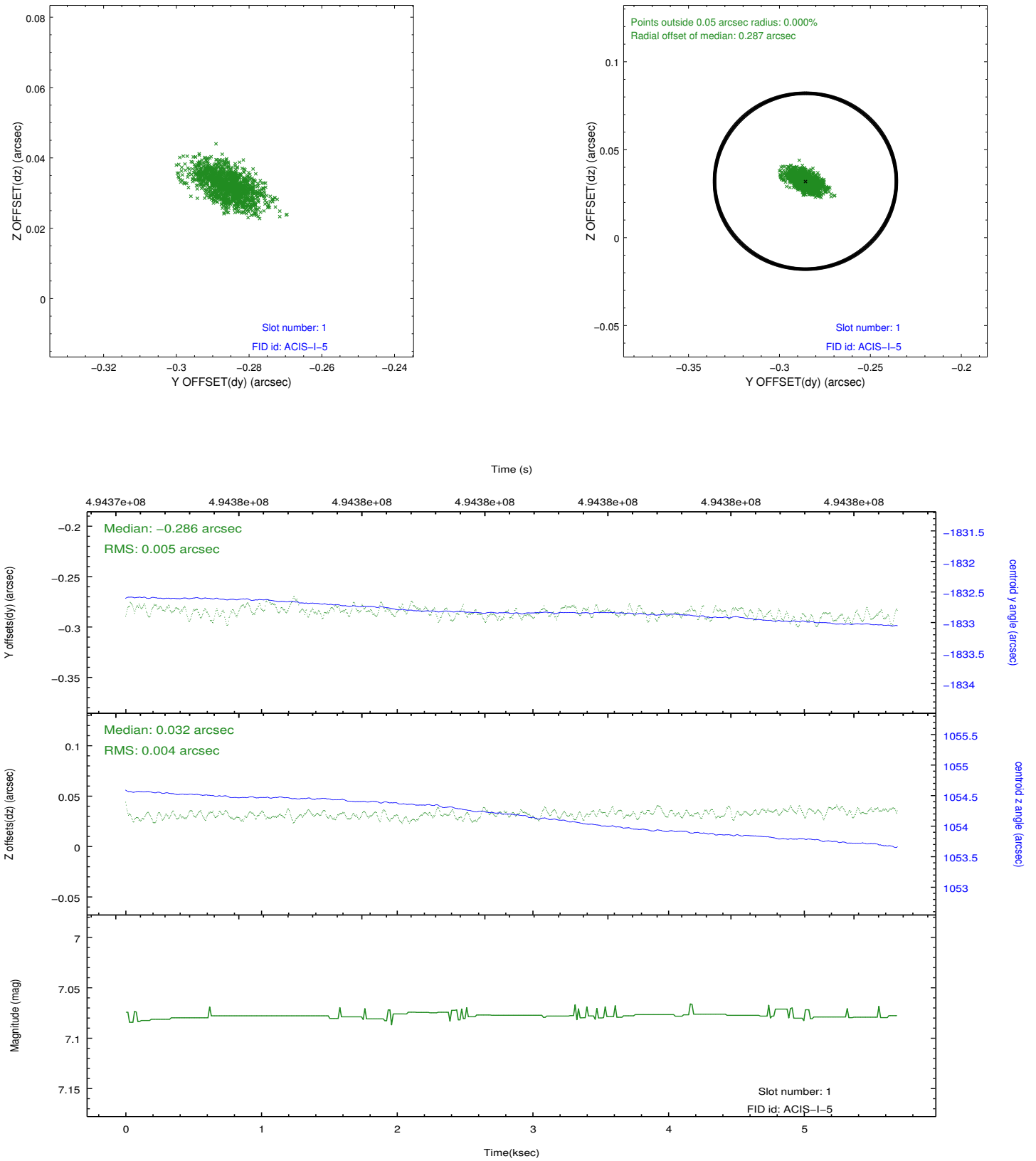


2.5 FID Slots

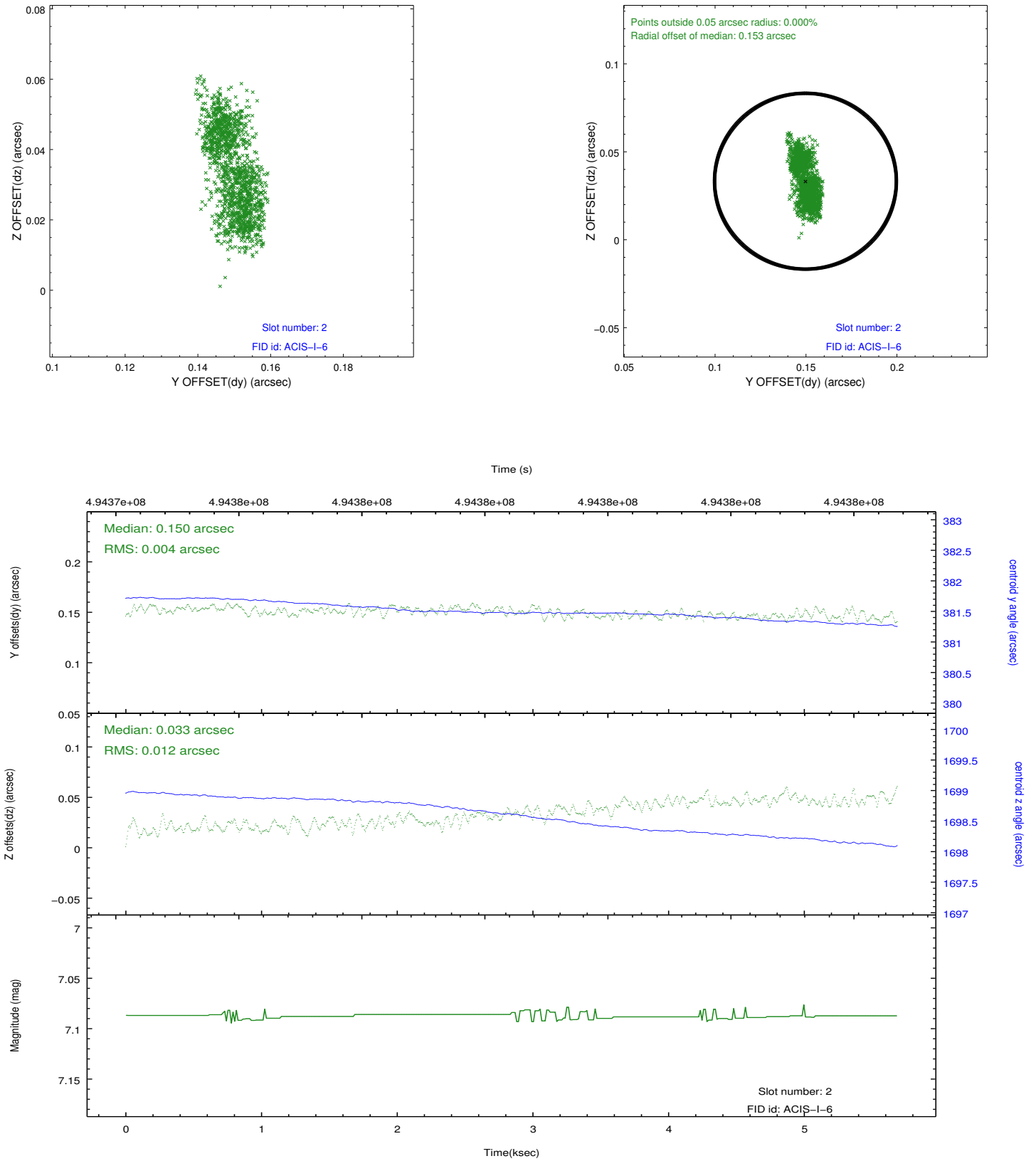
2.5.1 Slot 0



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)	2014.12.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.4153392884135

A.2 Comments

Charge time for this ObsId remains at previous value of 5.415 ks although with the current processing the charge time would have been 5.353 ksec.

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Obsid 15295 includes a momentum dump. While there is a little more noise in the residuals during the recovery from the dump, the star tracking looks good and the dump itself has been excluded from good time. This is OK for Aspect.

=====

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.