

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13575 - L2 Version 2
Chandra X-Ray Center

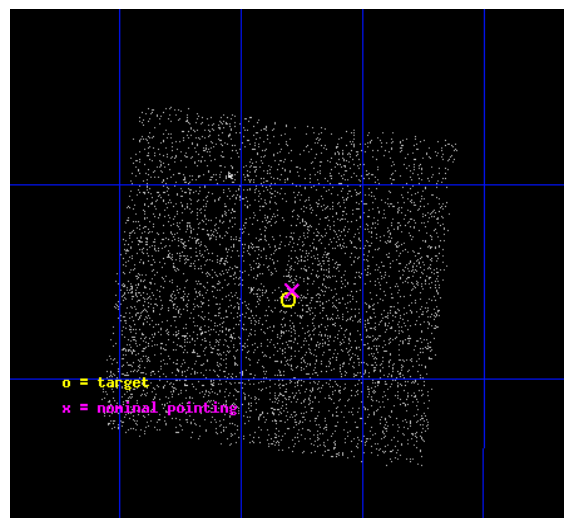
L2 Processing Date : Feb 16 2012

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1 Front

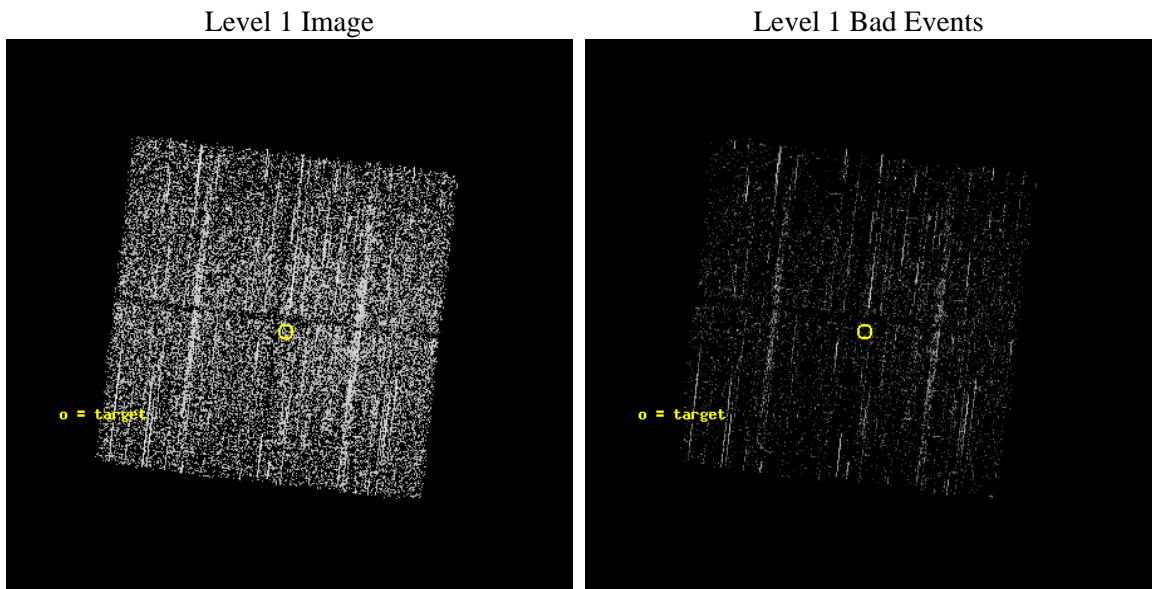
seq_num	401351	Sequence number
obs_id	13575	Observation id
title	Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr P Jonker	Principal investigator
object	GBS13-5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.20165	Observer's specified target RA [deg]
dec_targ	-32.098411	Observer's specified target Dec [deg]
ra_nom	266.1976972559	Nominal RA [deg]
dec_nom	-32.091252935504	Nominal Dec [deg]
roll_nom	96.704894637648	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1971.6000151634	Sum of GTIs [s]
livetime	1945.8396094945	Livetime [s]
ontime0	1971.6000151634	Sum of GTIs [s]
ontime1	1971.6000151634	Sum of GTIs [s]
ontime2	1971.6000151634	Sum of GTIs [s]
ontime3	1971.6000151634	Sum of GTIs [s]
l2events	5231	Number of level 2 events



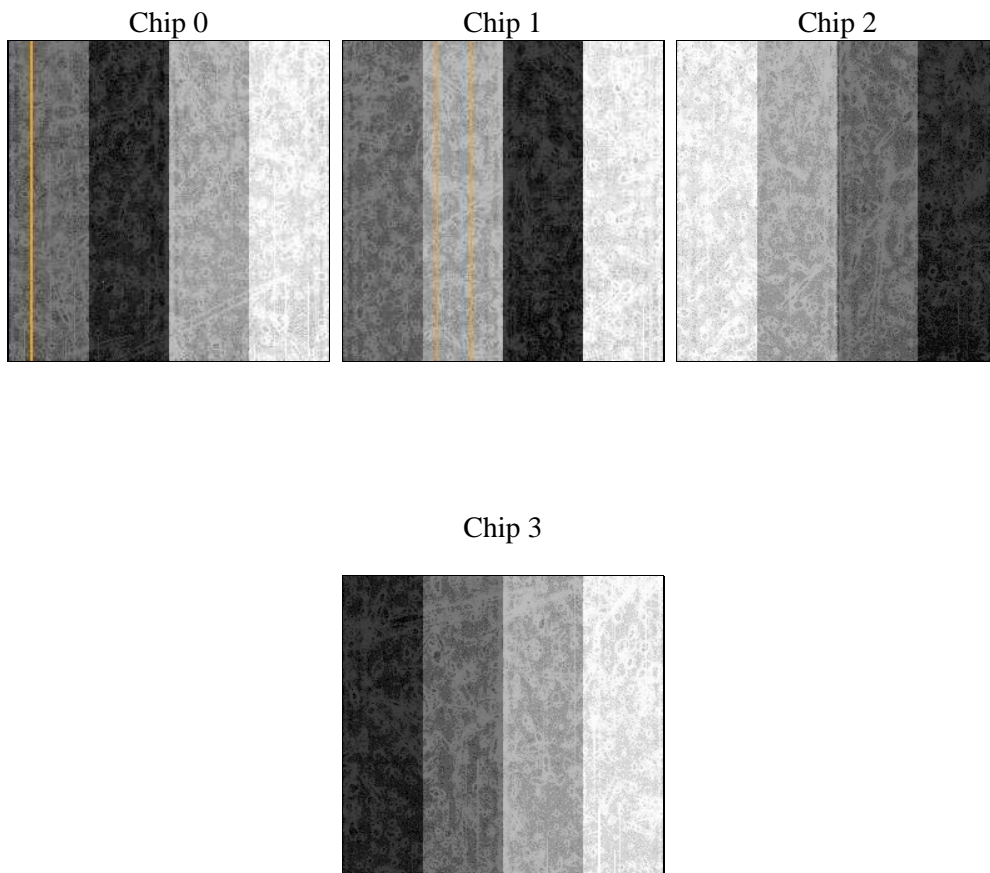
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	1971.6000151634	Sum of GTIs [s]
caldsver	4.4.7	 	ontime0	1971.6000151634	Sum of GTIs [s]
date	2012-02-16T04:44:09	Date and time of file creation	ontime1	1971.6000151634	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1971.6000151634	Sum of GTIs [s]
			ontime3	1971.6000151634	Sum of GTIs [s]
			l1events	46956	Number of level 1 events

2.1.4 Events

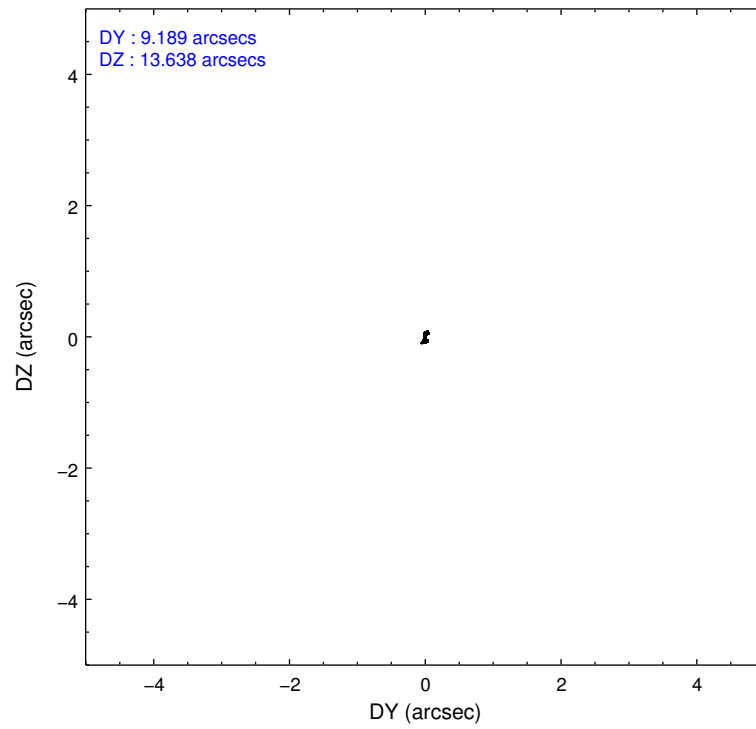
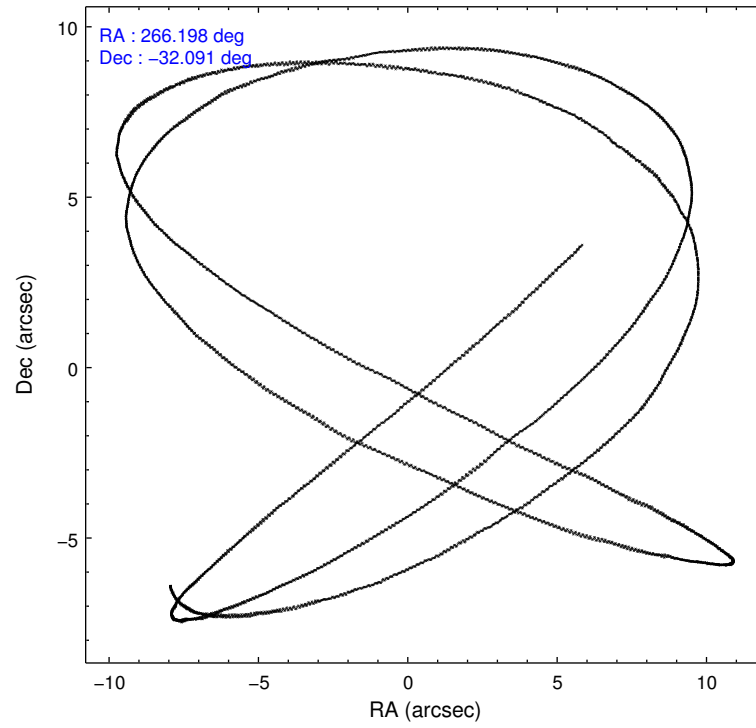
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	10801	11228	12571	12356
rejected events	9213	9570	11120	10877
rejected %	85%	85%	88%	88%

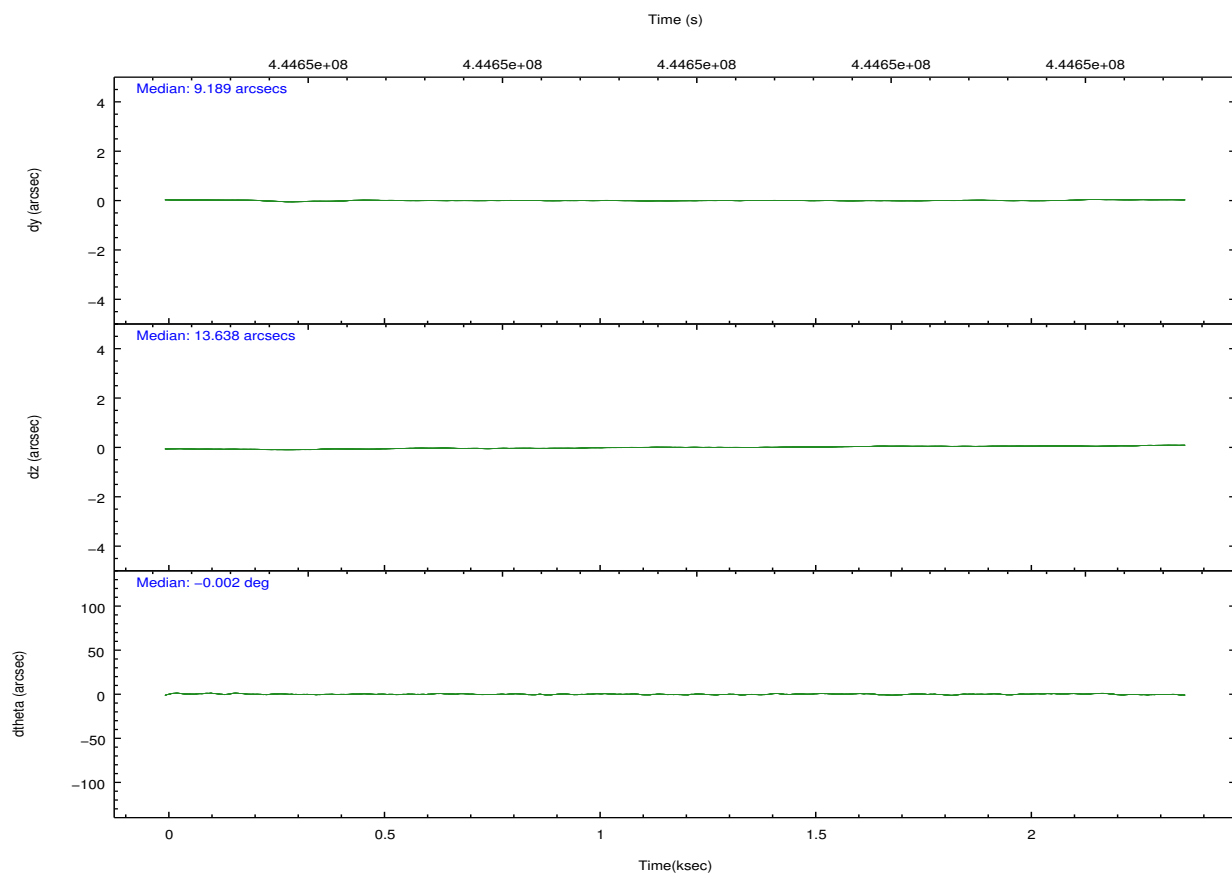
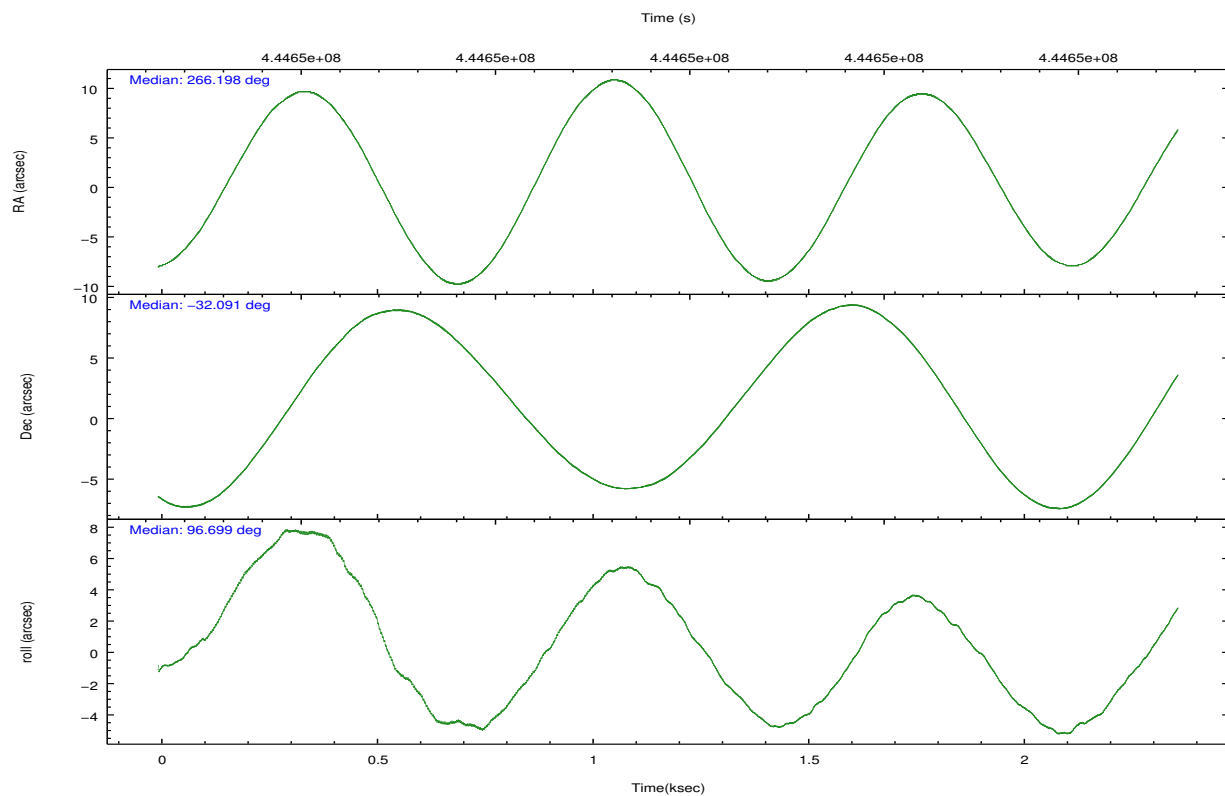
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	662	659	557	671
	6%	5%	4%	5%
grade 1 events	6	6	10	7
	0%	0%	0%	0%
grade 2 events	356	373	310	281
	3%	3%	2%	2%
grade 3 events	161	150	124	152
	1%	1%	0%	1%
grade 4 events	141	168	151	143
	1%	1%	1%	1%
grade 5 events	508	534	527	571
	4%	4%	4%	4%
grade 6 events	271	317	313	240
	2%	2%	2%	1%
grade 7 events	8696	9021	10579	10291
	80%	80%	84%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	266.217271	266.197697255903	Subarray requested	NONE	NONE
[deg] Pointing Dec	-32.113001	-32.09125293550395	Alternating exposures requested	N	N
[deg] Pointing Roll	96.506627	96.70489463764795	[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)	444645937.184000	444645560.92321			
Observation start date	2012-02-03T08:44:31	2012-02-03T08:39:20			
[s] Observation end time (MET)	444648117.184000	444649170.9734			
Observation end date	2012-02-03T09:20:51	2012-02-03T09:39:30			
Read mode	TIMED	TIMED			

2.3 Aspect



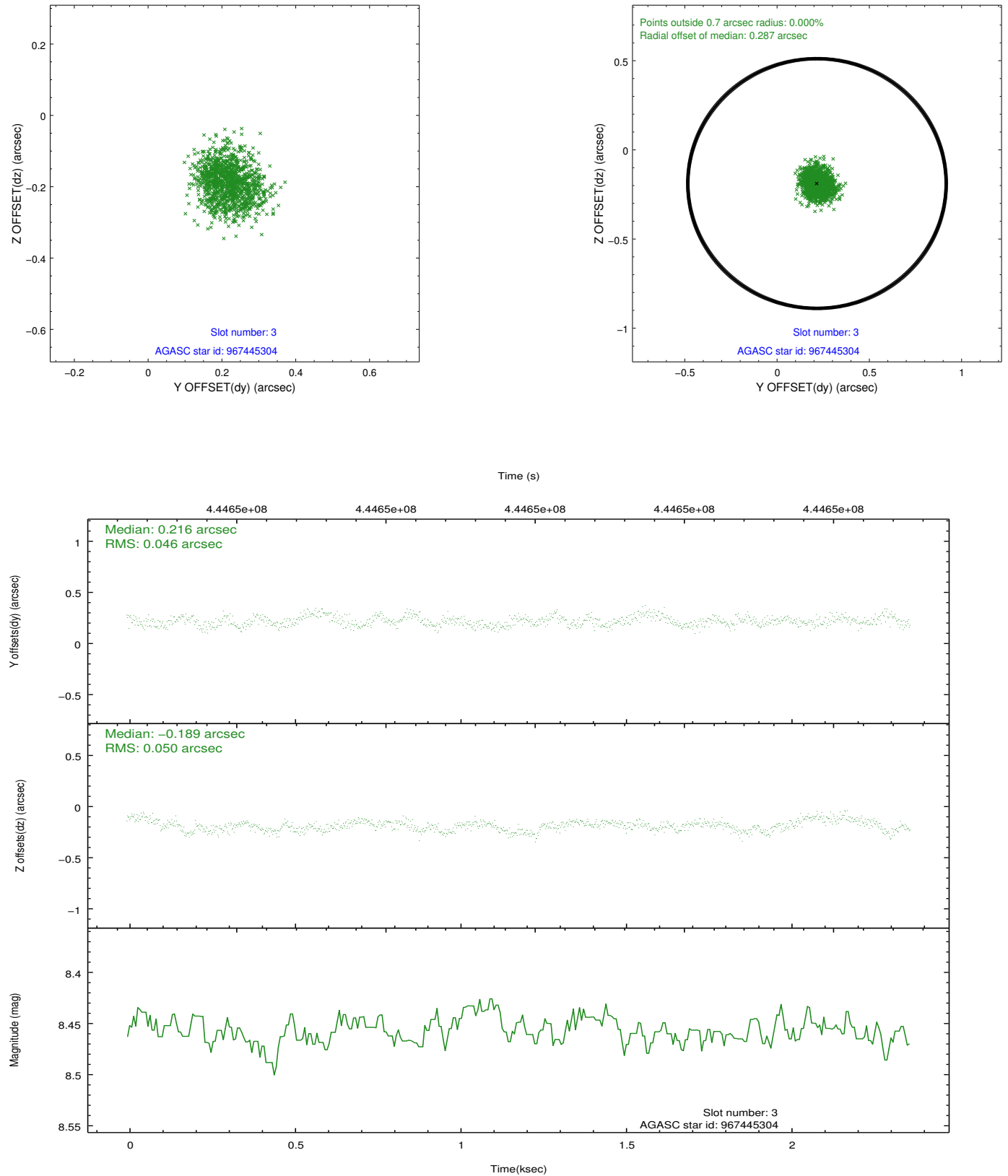


Slot Statistics

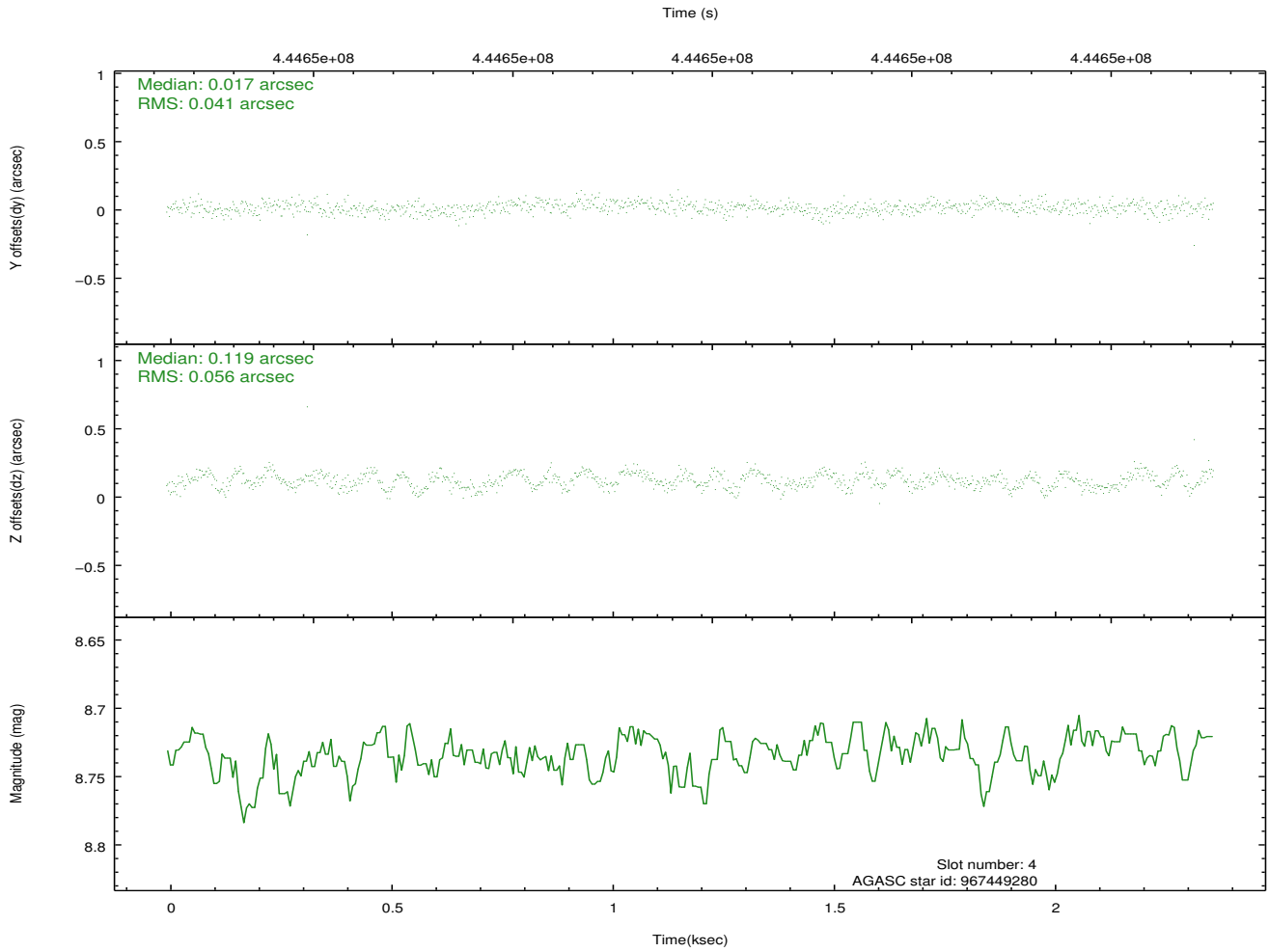
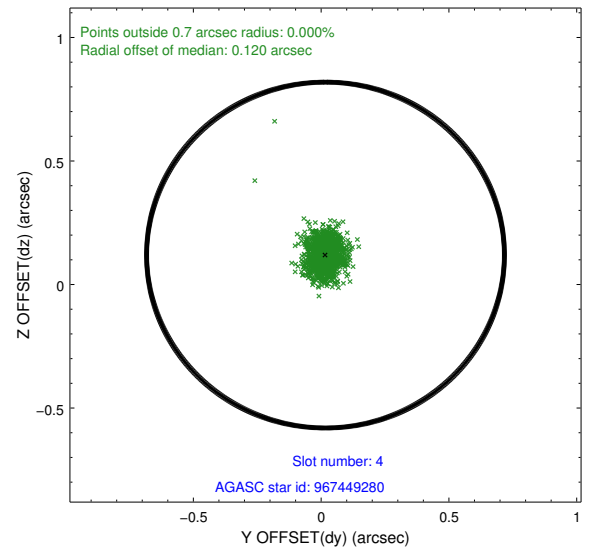
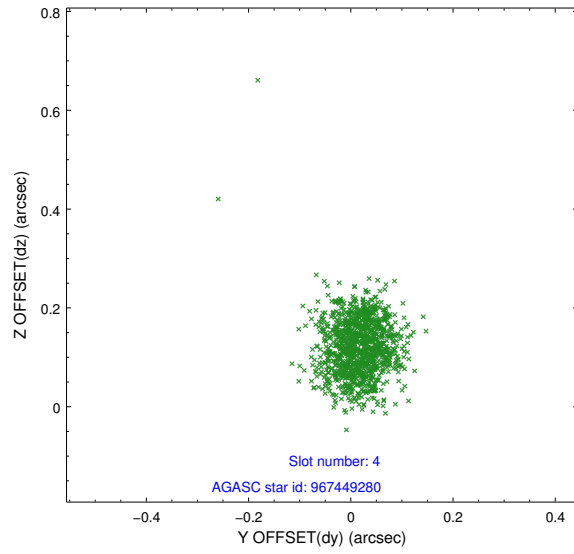
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.08	577	0.078	-0.016	0.006	0.010	0.000000	0.000000	930.51	-837.21
1	FID	ACIS-I-5	7.06	578	-0.219	0.084	0.006	0.011	0.000000	0.000000	-1816.38	1058.99
2	FID	ACIS-I-6	7.07	577	0.050	0.002	0.007	0.011	0.000000	0.000000	393.03	1706.53
3	GUIDE	967445304	8.46	1155	0.216	-0.189	0.074	0.115	265.658967	-32.404354	-853.36	1804.92
4	GUIDE	967449280	8.73	1155	0.017	0.119	0.072	0.113	266.690713	-32.455990	-1392.70	-1287.28
5	GUIDE	966926896	9.20	1152	-0.043	0.118	0.086	0.141	266.197771	-31.663459	1614.29	-125.03
6	GUIDE	967447552	8.75	1154	-0.280	-0.248	0.091	0.140	265.515186	-32.048669	467.70	2102.57
7	GUIDE	967446352	7.74	1153	0.087	0.214	0.080	0.129	267.069988	-32.671157	-2298.40	-2336.70

2.4 Star Slots

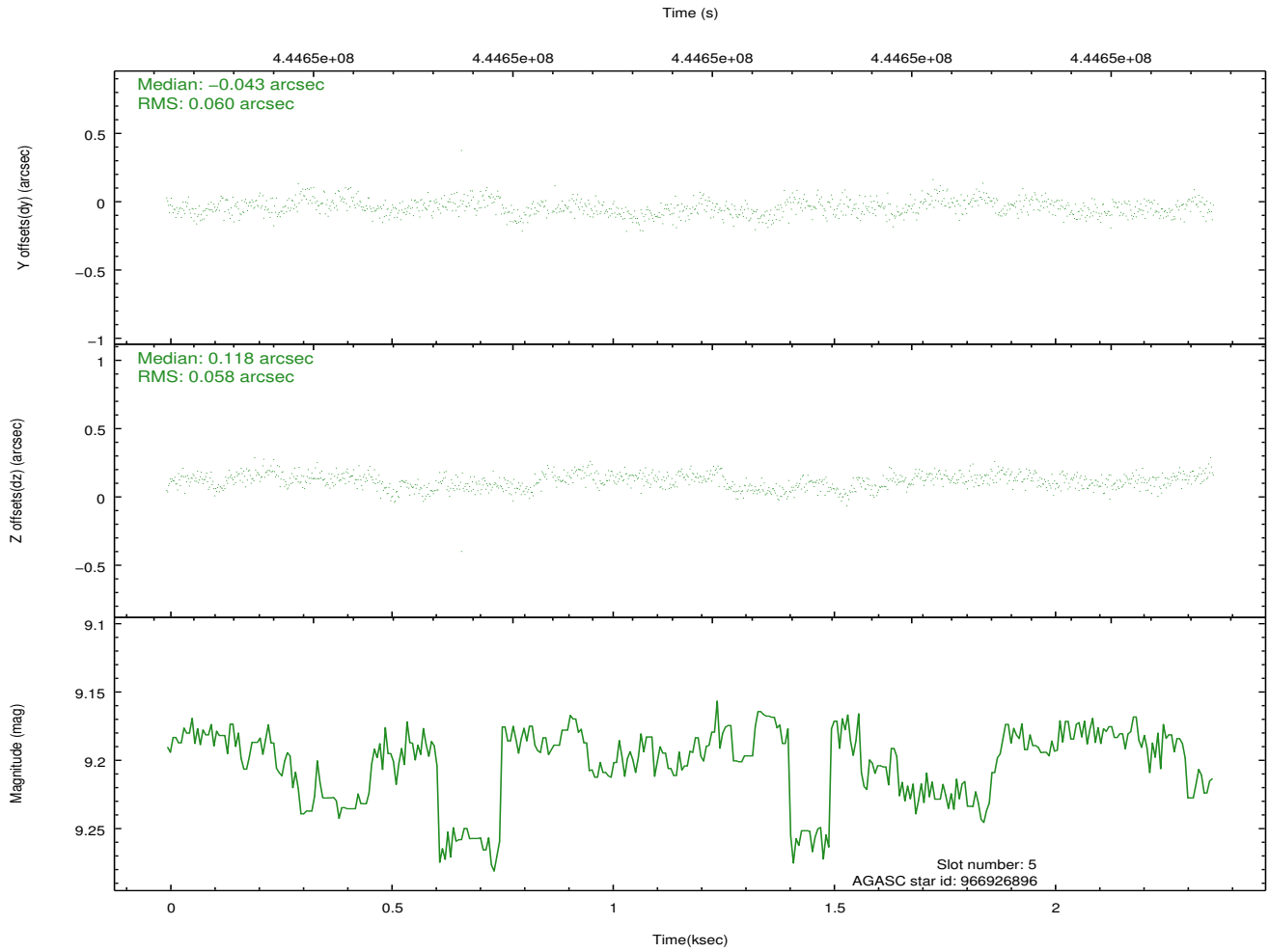
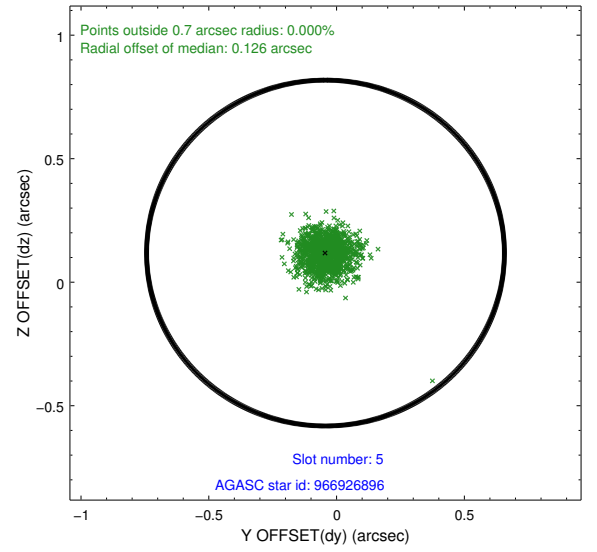
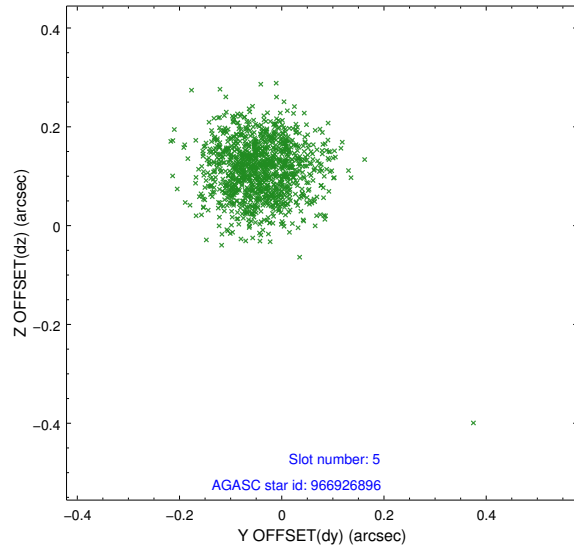
2.4.1 Slot 3



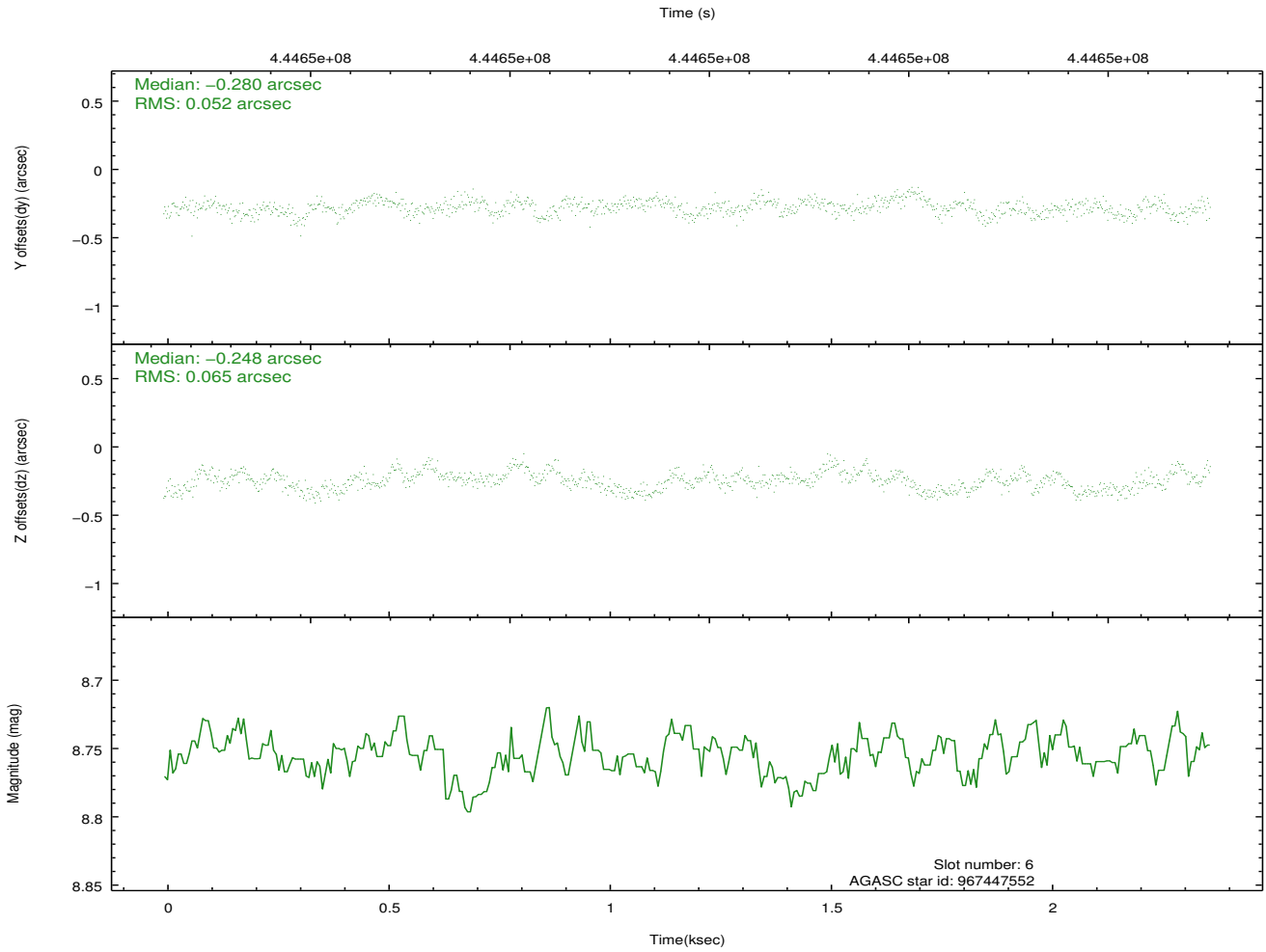
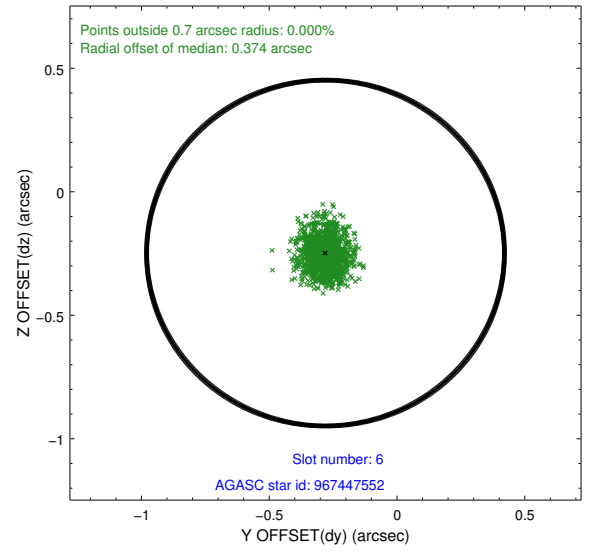
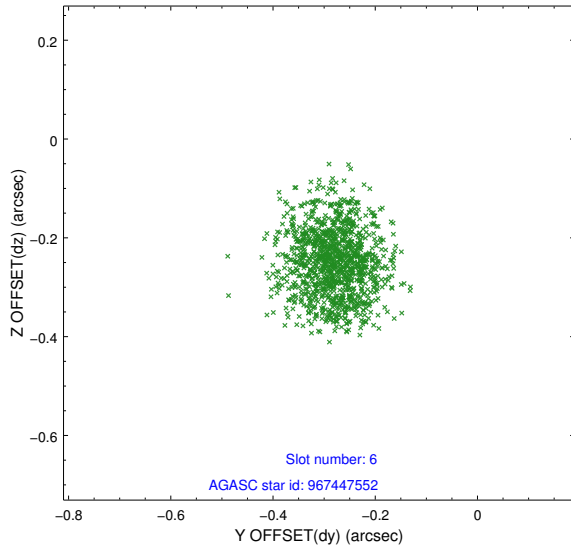
2.4.2 Slot 4



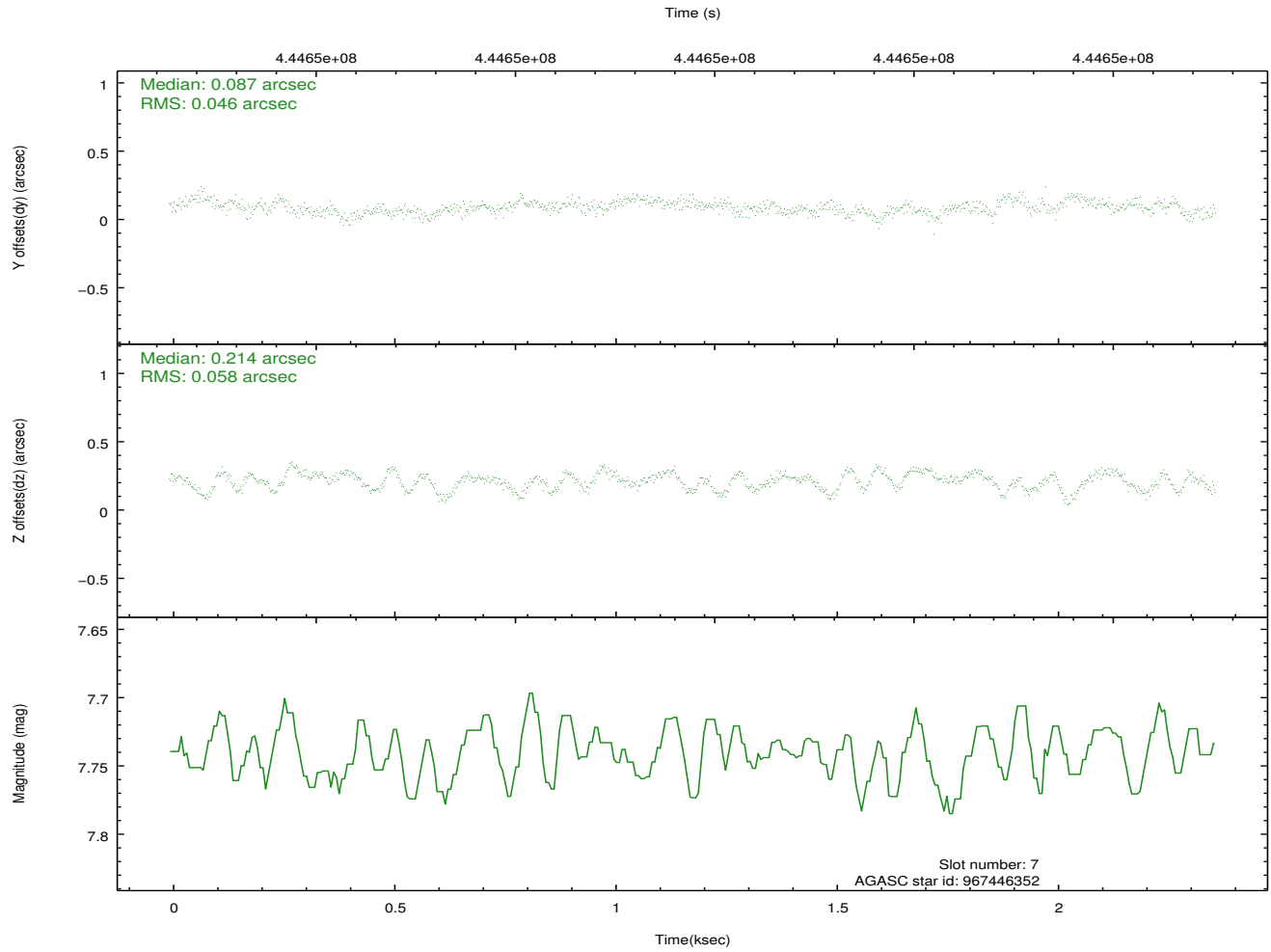
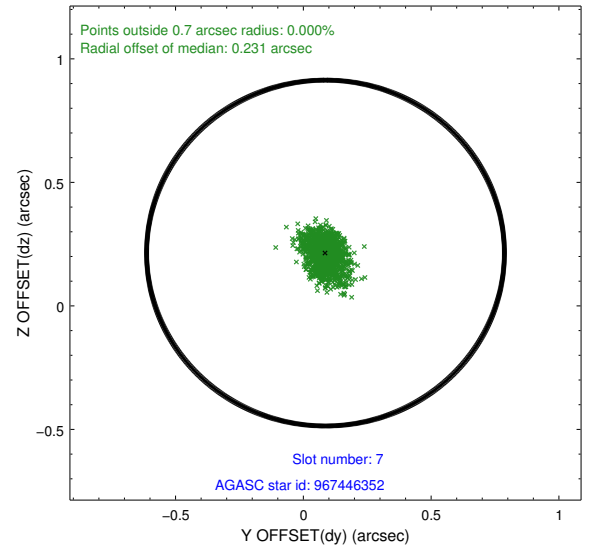
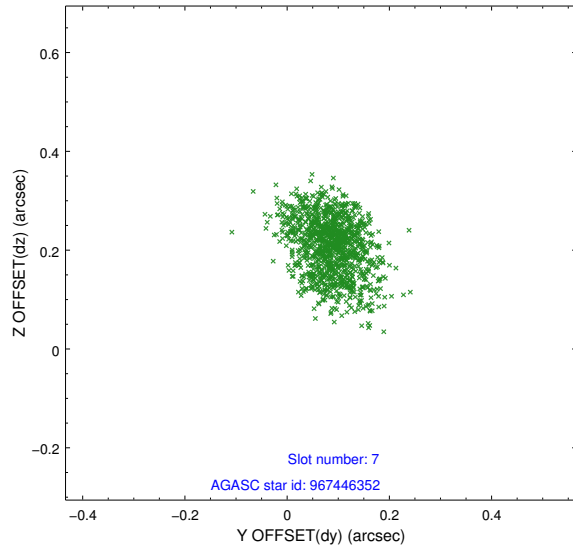
2.4.3 Slot 5



2.4.4 Slot 6

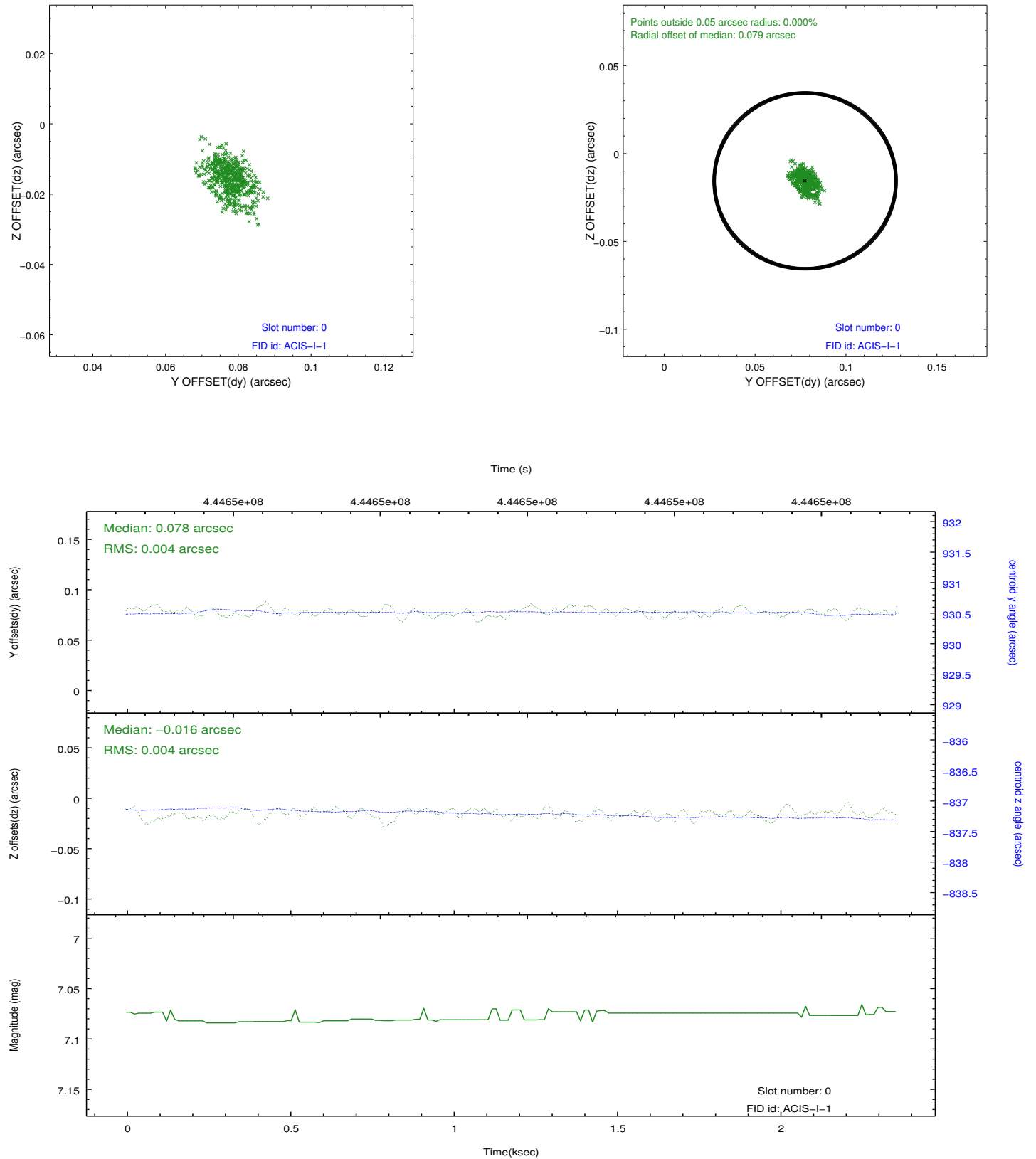


2.4.5 Slot 7

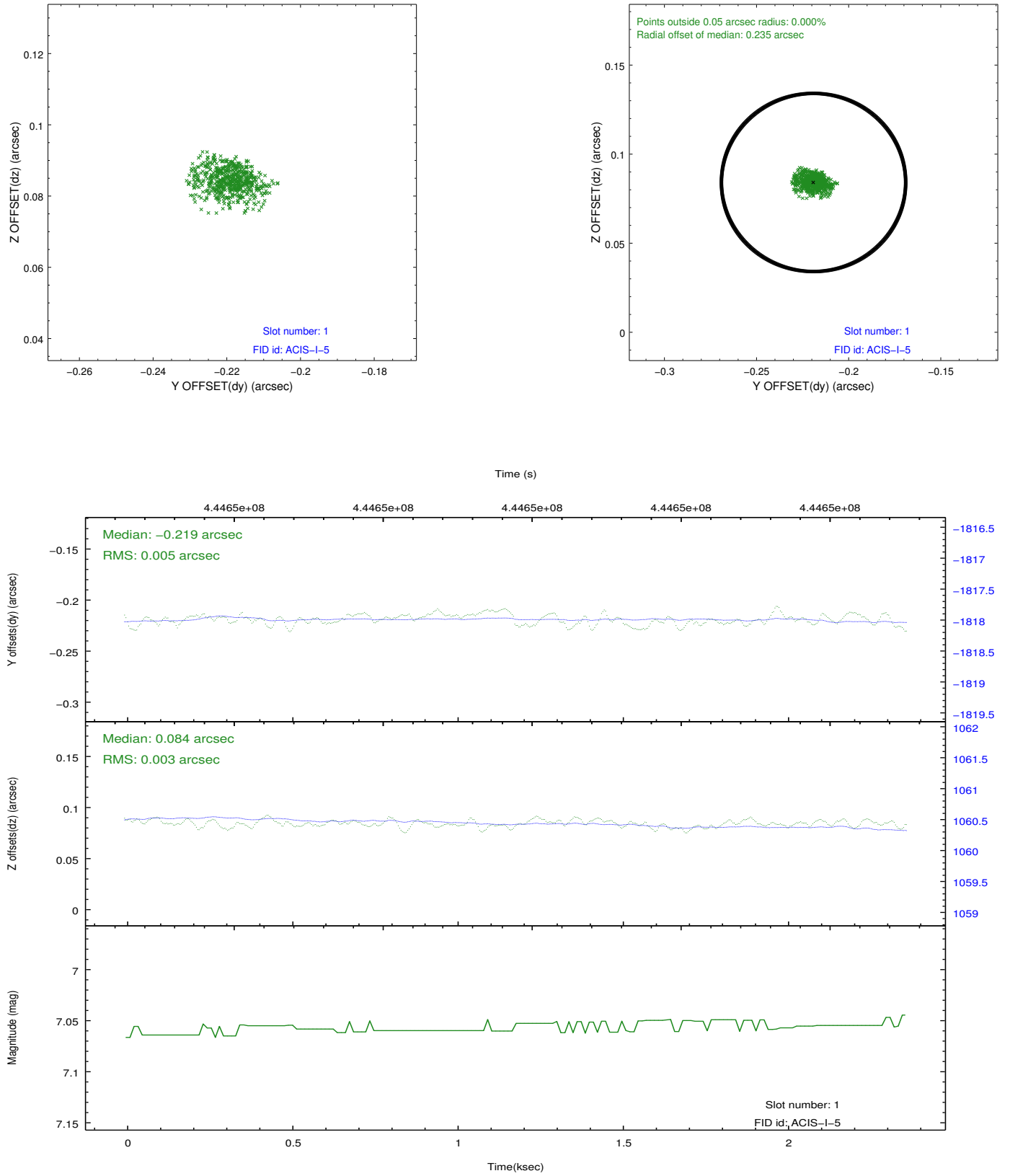


2.5 FID Slots

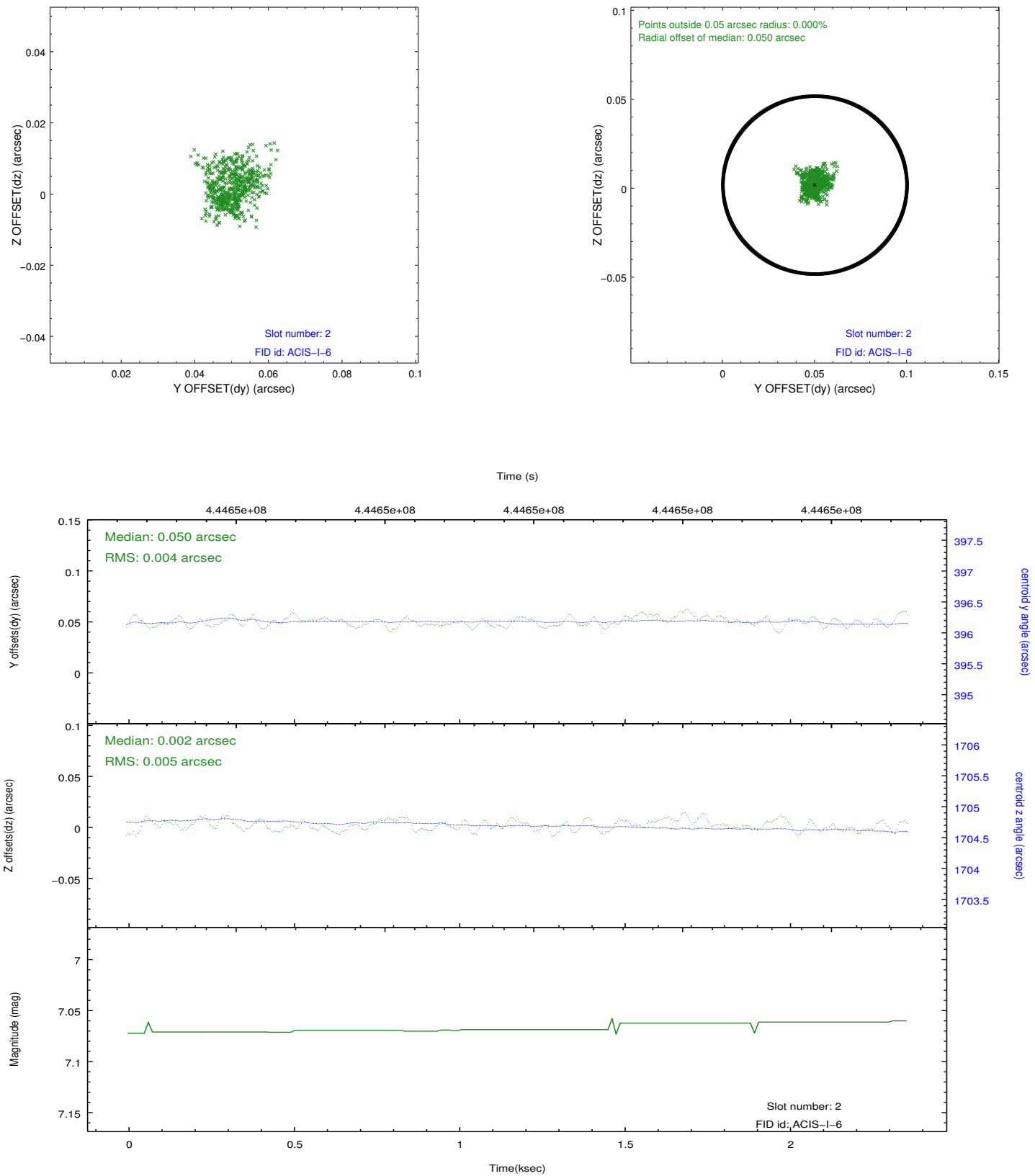
2.5.1 Slot 0



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)	2012.02.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9716000151634

A.2 Comments

A spatial region of the original bias map for CCD = 3 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~ 20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 3 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:
(266.12186,-32.23762),(266.12490,-32.23732),(266.11436,-32.16094),(266.11167,-32.16381)

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Joint Proposal: NOAO