

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 6409 - L2 Version 3
Chandra X-Ray Center

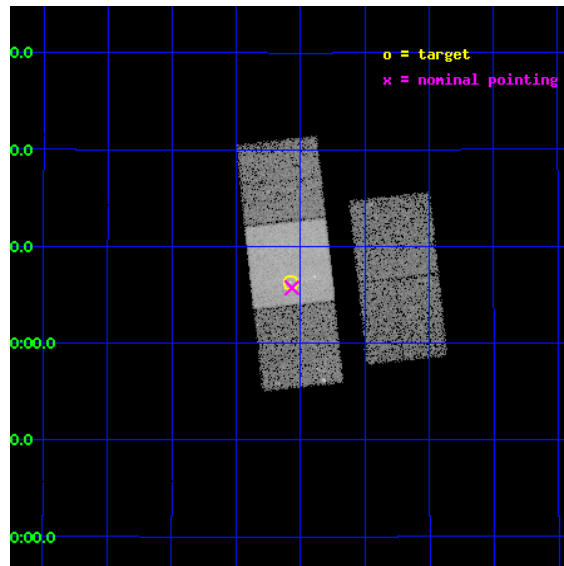
L2 Processing Date : May 2 2012

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1 Front

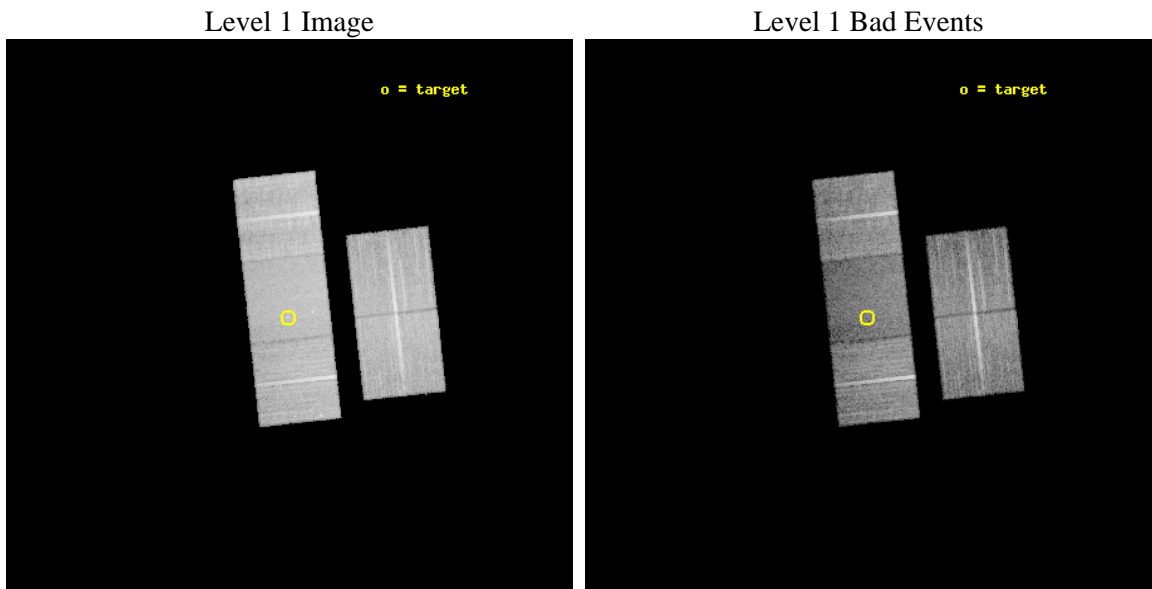
seq_num	200384	Sequence number
obs_id	6409	Observation id
title	DG Tauri: A T Tauri Star with an X-Ray Jet?	Proposal title
observer	Prof. Manuel Guedel	Principal investigator
object	DG Tau	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	66.77	Observer's specified target RA [deg]
dec_targ	26.104694	Observer's specified target Dec [deg]
ra_nom	66.766994912535	Nominal RA [deg]
dec_nom	26.095407799813	Nominal Dec [deg]
roll_nom	263.75794938087	Nominal Roll [deg]
revision	3	Processing version of data
ontime	16467.199968308	Sum of GTIs [s]
livetime	16252.043877746	Livetime [s]
ontime2	16464.058978051	Sum of GTIs [s]
ontime3	16467.199968308	Sum of GTIs [s]
ontime6	16467.199968308	Sum of GTIs [s]
ontime7	16467.199968308	Sum of GTIs [s]
ontime8	16460.918137312	Sum of GTIs [s]
l2events	92598	Number of level 2 events



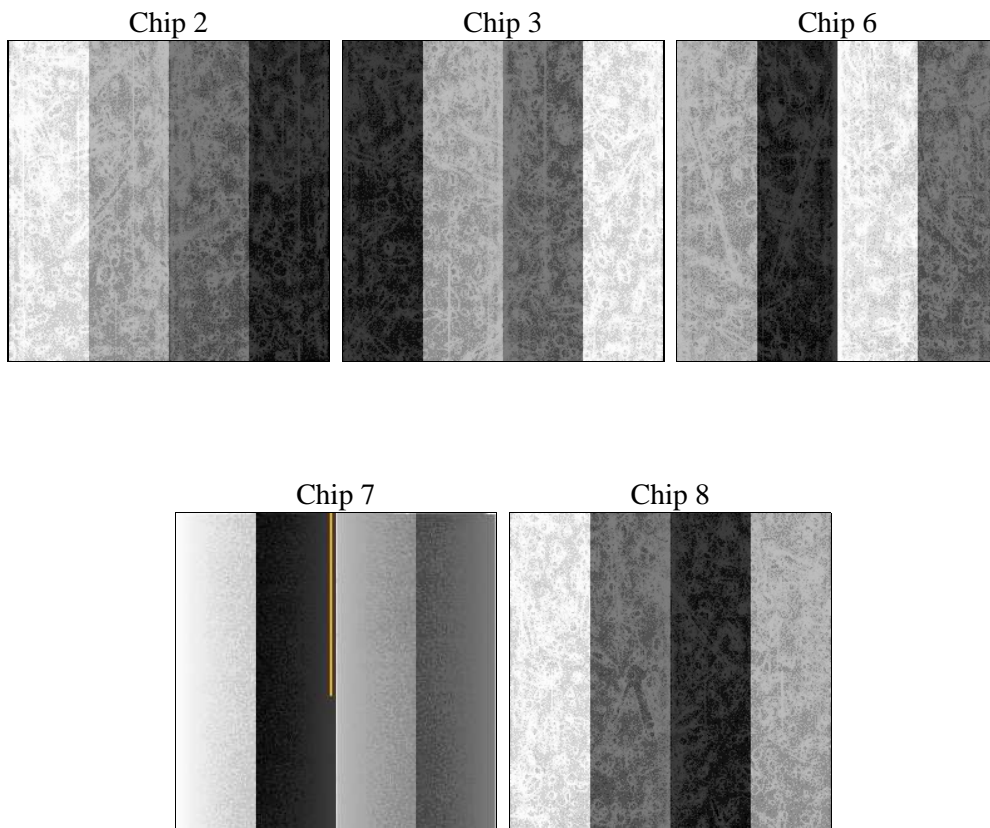
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	16300.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	16467.199968308	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	16464.058978051	Sum of GTIs [s]
date	2012-05-02T17:42:25	Date and time of file creation	ontime3	16467.199968308	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	16467.199968308	Sum of GTIs [s]
			ontime7	16467.199968308	Sum of GTIs [s]
			ontime8	16460.918137312	Sum of GTIs [s]
			l1events	623517	Number of level 1 events

2.1.4 Events

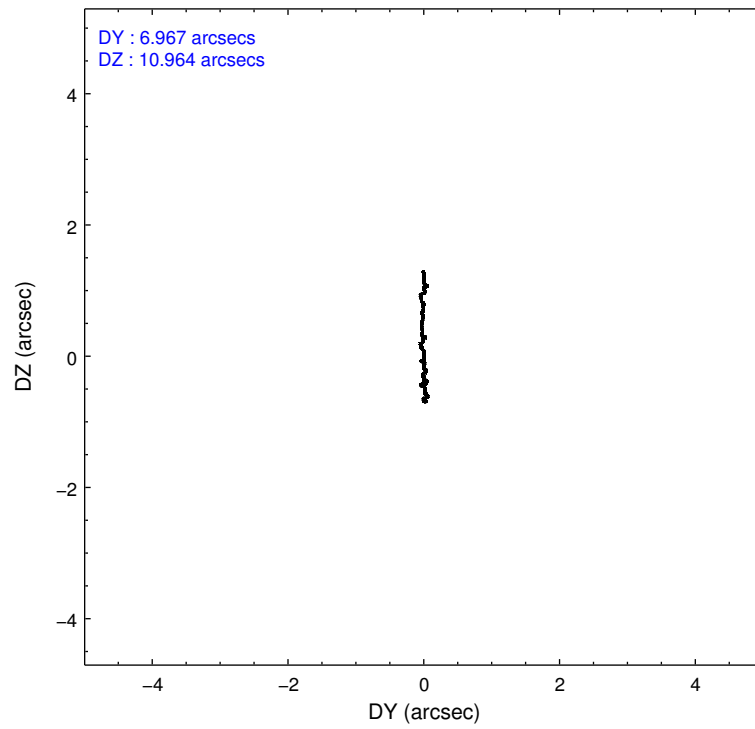
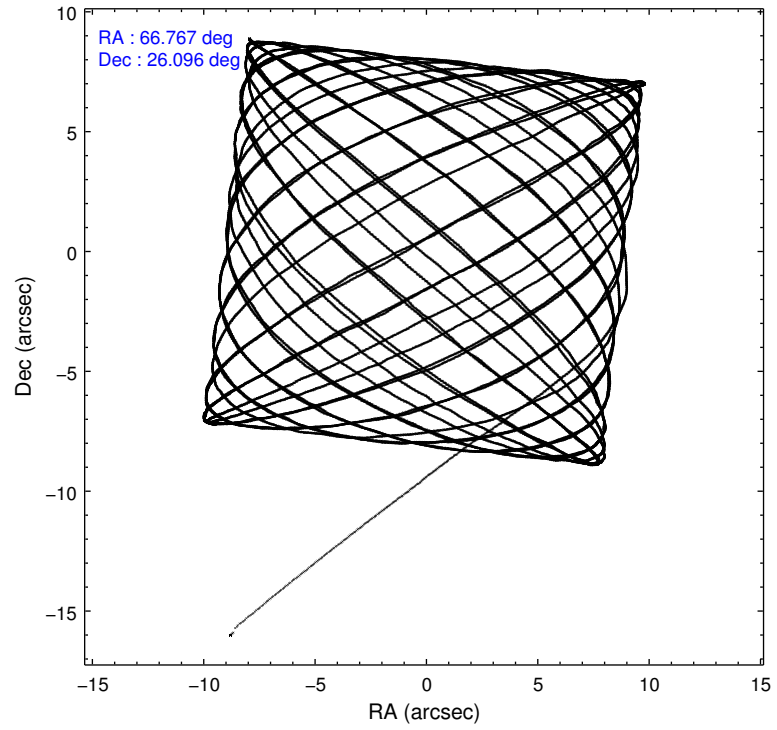
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	119968	113303	119489	125988	144769
rejected events	109508	103192	107834	70885	112958
rejected %	91%	91%	90%	56%	78%

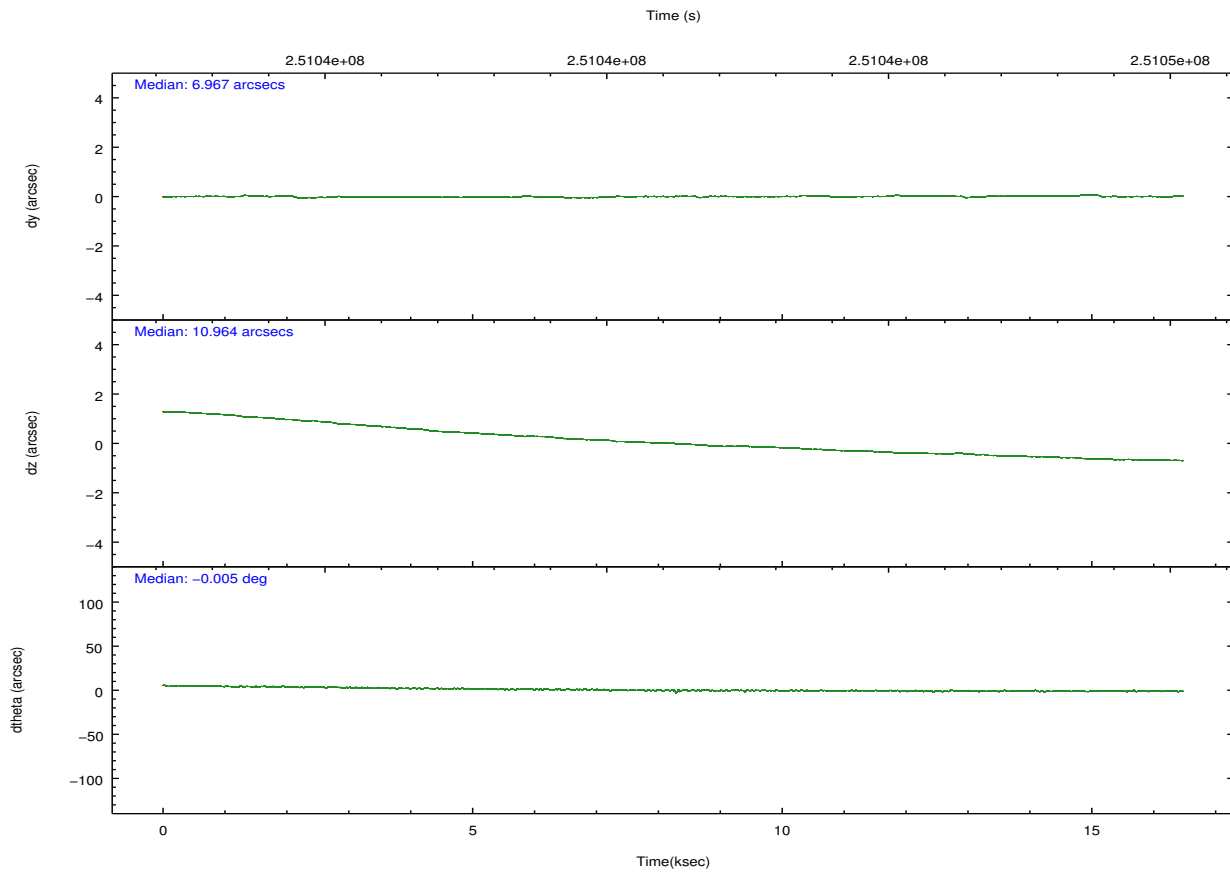
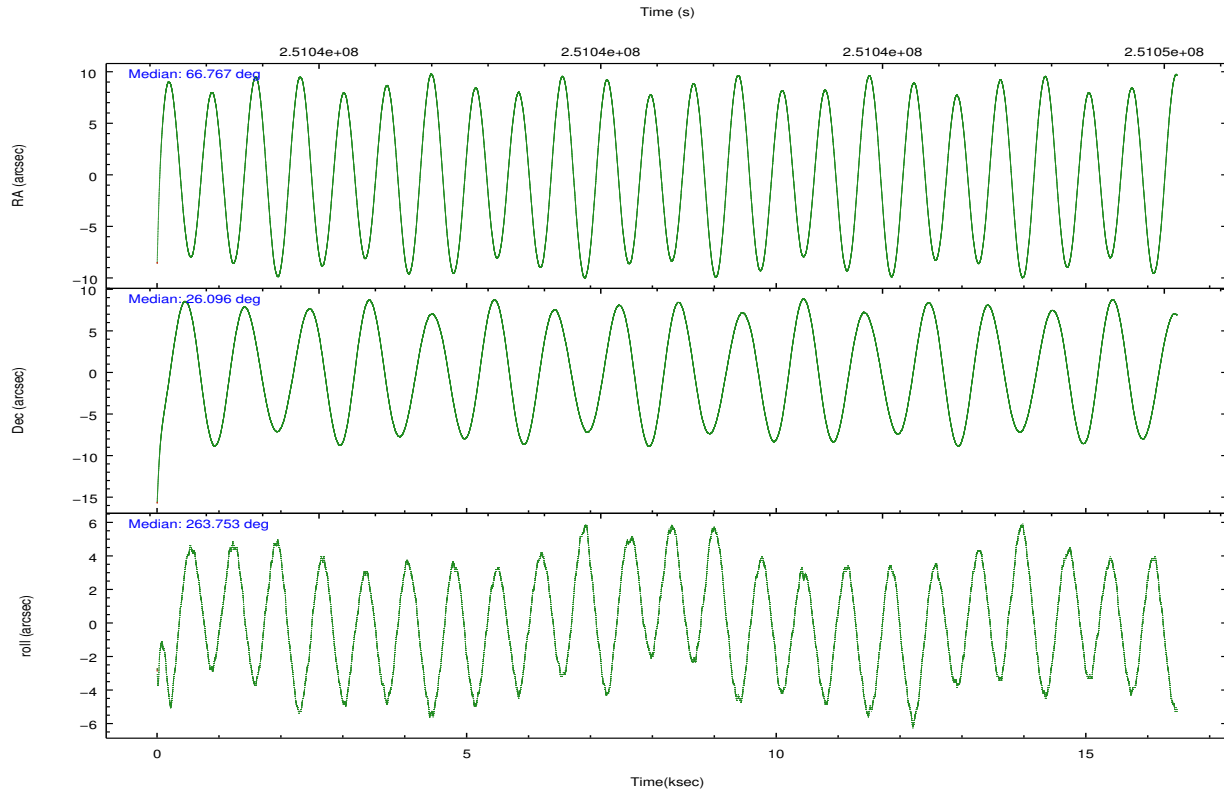
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3801	3585	4246	5061	9829
	3%	3%	3%	4%	6%
grade 1 events	47	62	45	94	107
	0%	0%	0%	0%	0%
grade 2 events	2577	2328	2715	11584	7523
	2%	2%	2%	9%	5%
grade 3 events	1214	1248	1349	5486	3673
	1%	1%	1%	4%	2%
grade 4 events	1234	1229	1310	5456	3486
	1%	1%	1%	4%	2%
grade 5 events	3534	4487	4673	13527	6783
	2%	3%	3%	10%	4%
grade 6 events	2019	2124	2498	29699	8649
	1%	1%	2%	23%	5%
grade 7 events	105542	98240	102653	55081	104719
	87%	86%	85%	43%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	66.754376	66.76699491253507	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.120185	26.09540779981347	Alternating exposures requested	N	N
[deg] Pointing Roll	263.606880	263.7579493808654	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	251033117.184000	251031794.3748			
Observation start date	2005-12-15T11:24:13	2005-12-15T11:03:14			
[s] Observation end time (MET)	251049417.184000	251050621.06317			
Observation end date	2005-12-15T15:55:53	2005-12-15T16:17:01			
Read mode	TIMED	TIMED			

2.3 Aspect



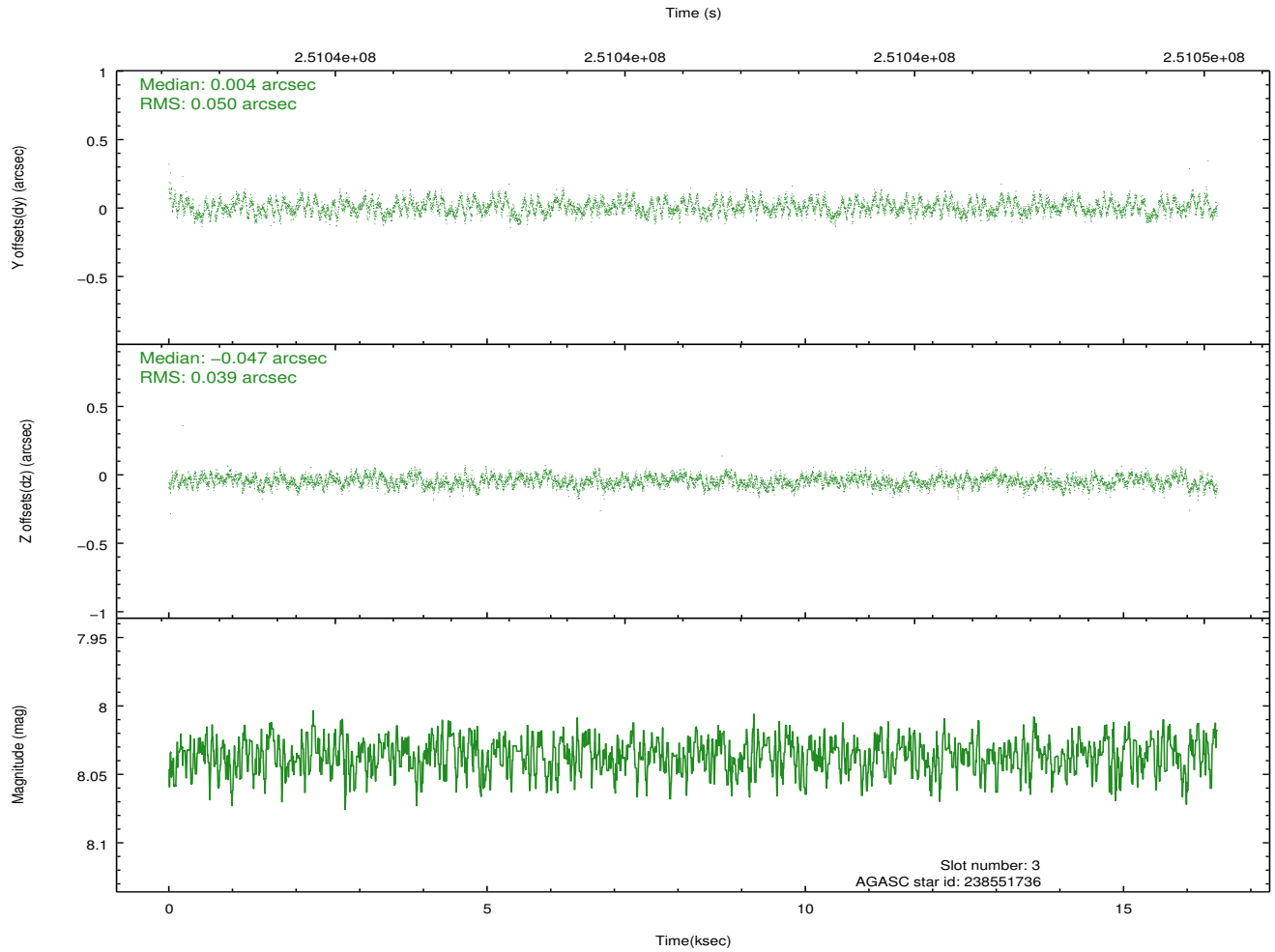
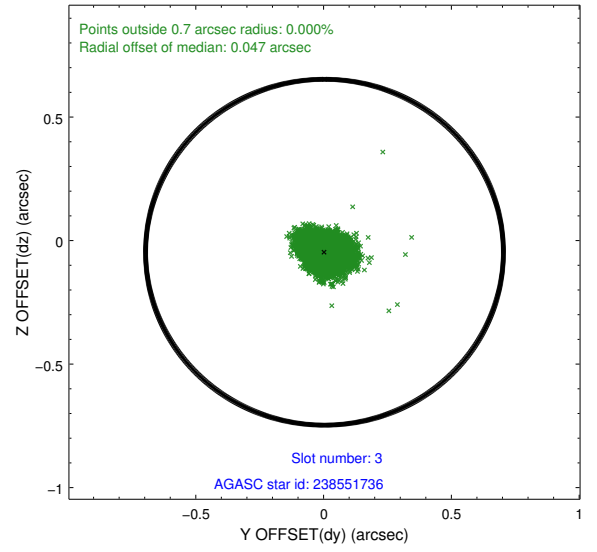
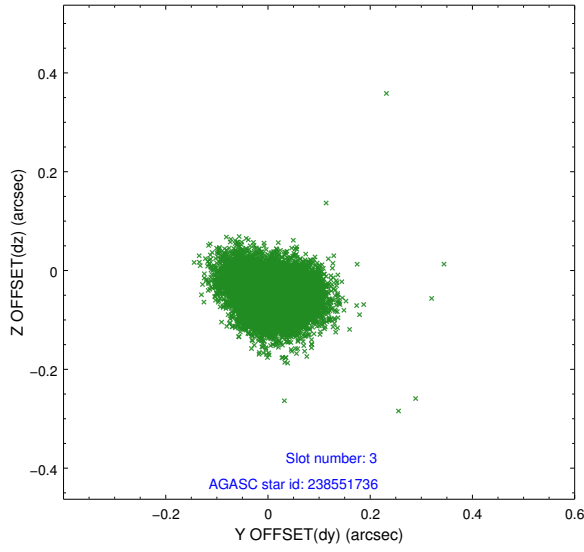


Slot Statistics

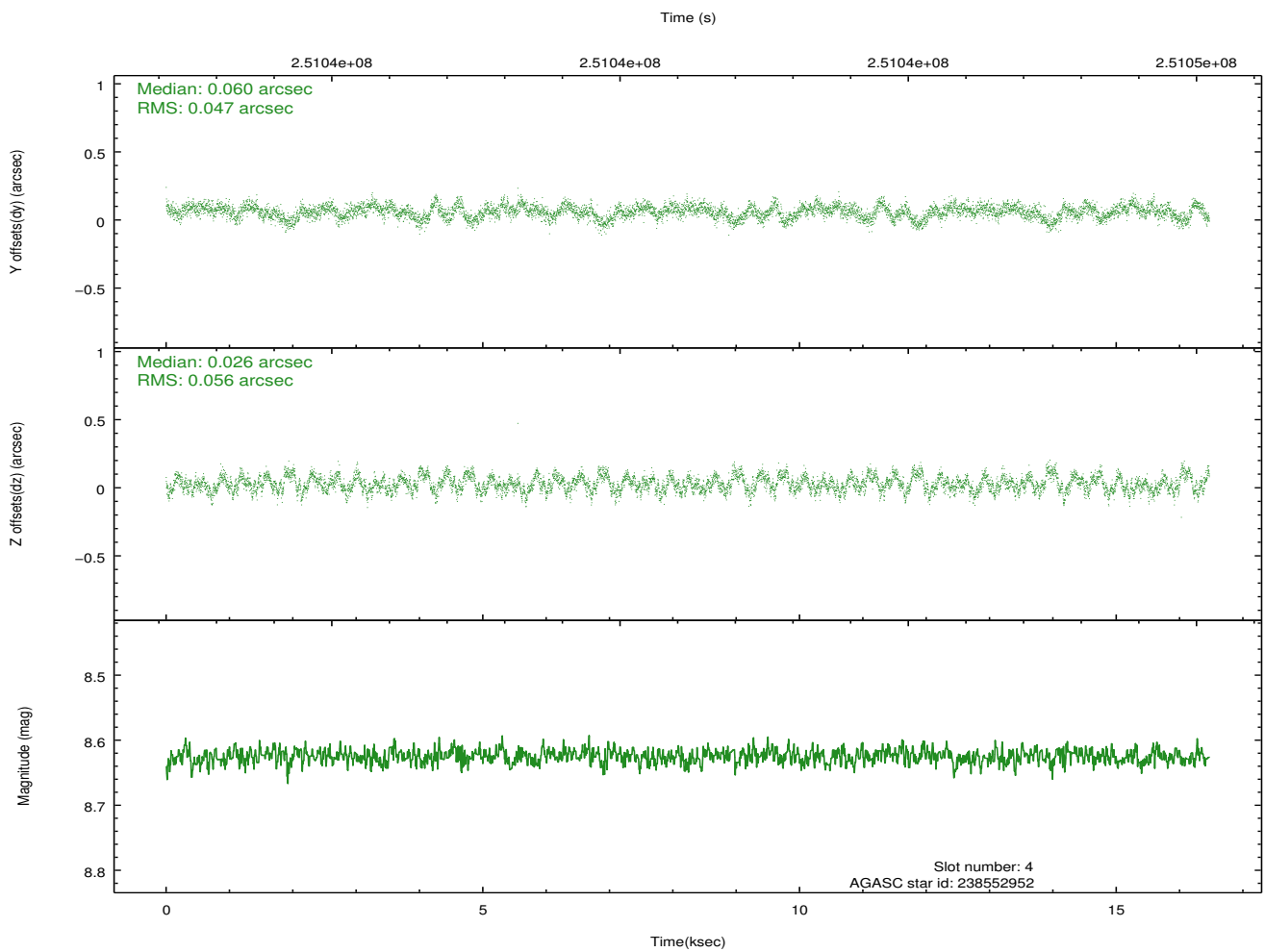
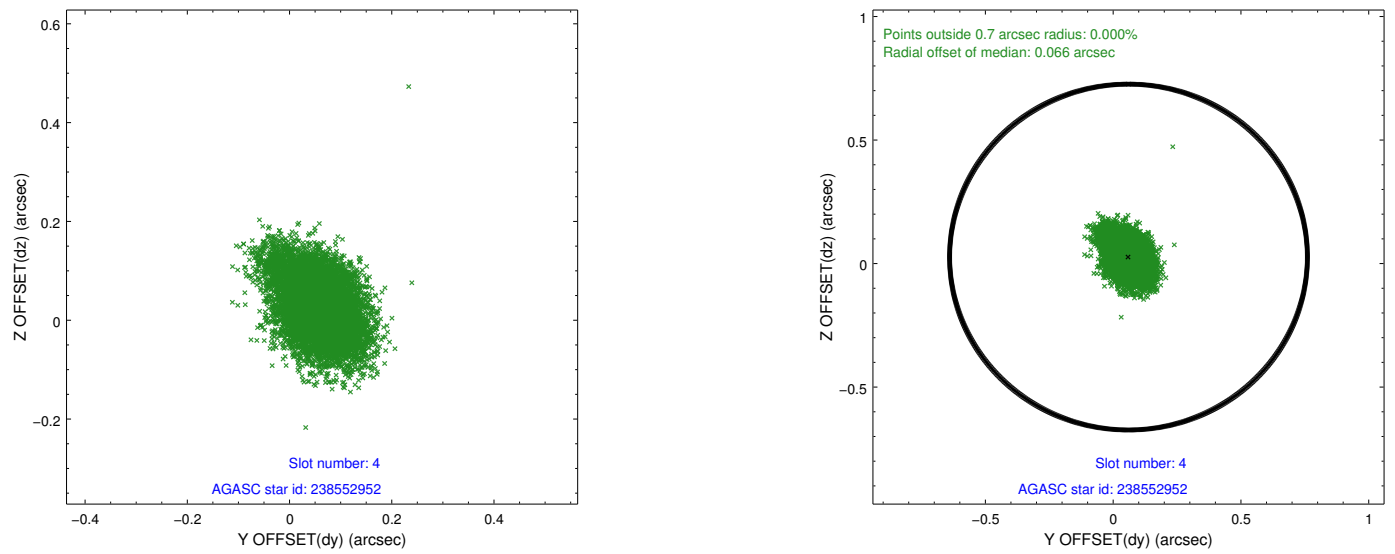
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	4017	-0.055	-0.027	0.012	0.027	0.000000	0.000000	-759.74	-1732.34
1	FID	ACIS-S-4	7.21	4018	0.095	0.033	0.012	0.020	0.000000	0.000000	2153.53	175.98
2	FID	ACIS-S-5	7.23	4017	-0.073	0.002	0.009	0.021	0.000000	0.000000	-1812.30	169.86
3	GUIDE	238551736	8.04	8035	0.004	-0.047	0.067	0.105	66.295103	25.749175	1491.13	-1331.02
4	GUIDE	238552952	8.63	8031	0.060	0.026	0.076	0.128	66.435210	25.897396	911.55	-937.99
5	GUIDE	238560976	7.90	8031	-0.066	0.020	0.059	0.101	66.476513	25.572013	2061.14	-676.84
6	GUIDE	240257560	8.71	8031	-0.022	0.004	0.066	0.109	66.998185	25.718771	1347.85	946.92
7	GUIDE	240781424	9.17	8029	0.032	-0.008	0.092	0.151	67.378197	26.671551	-2200.29	1773.40

2.4 Star Slots

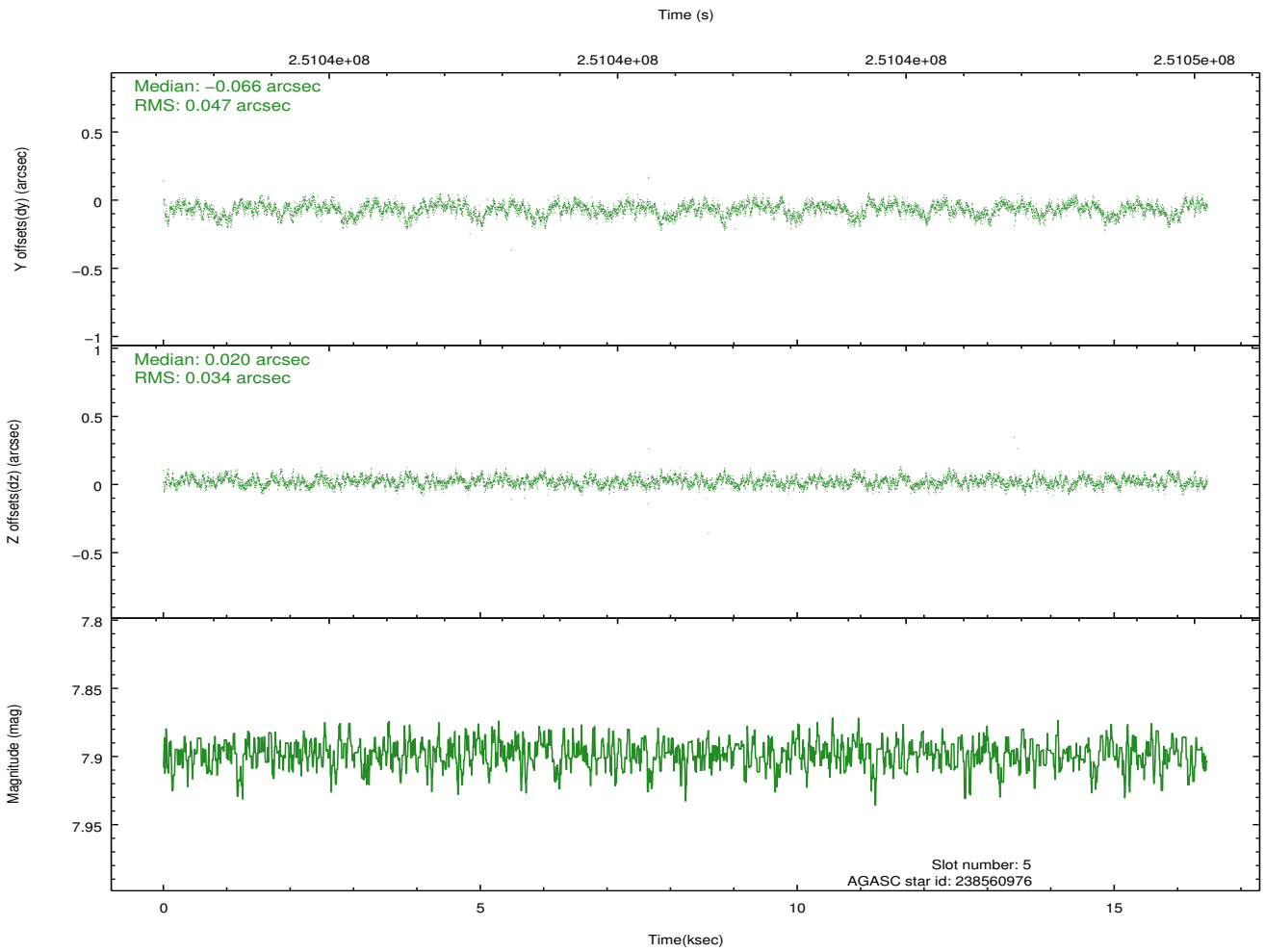
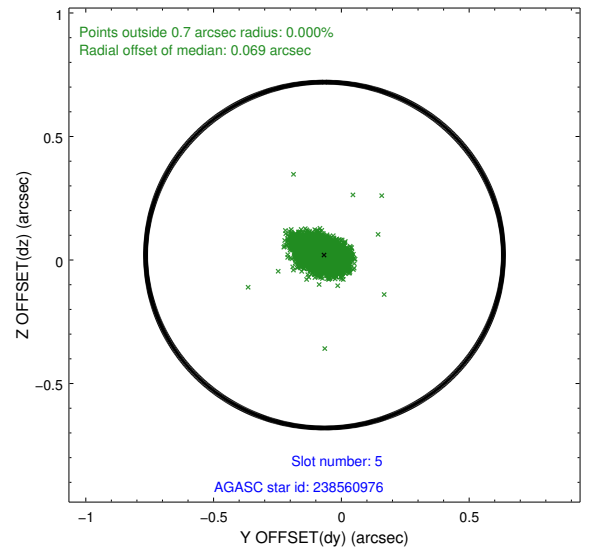
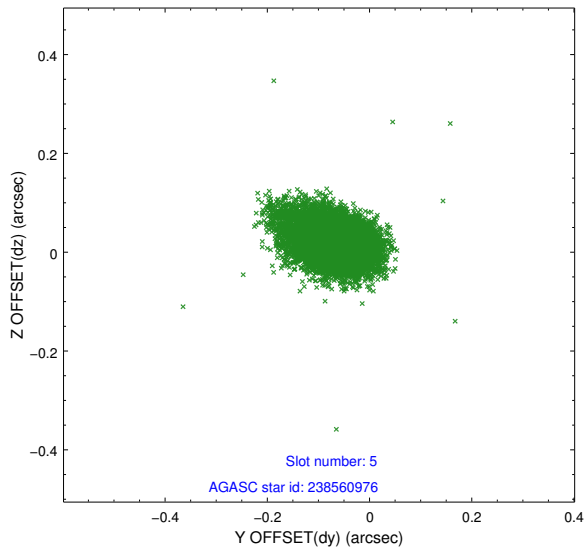
2.4.1 Slot 3



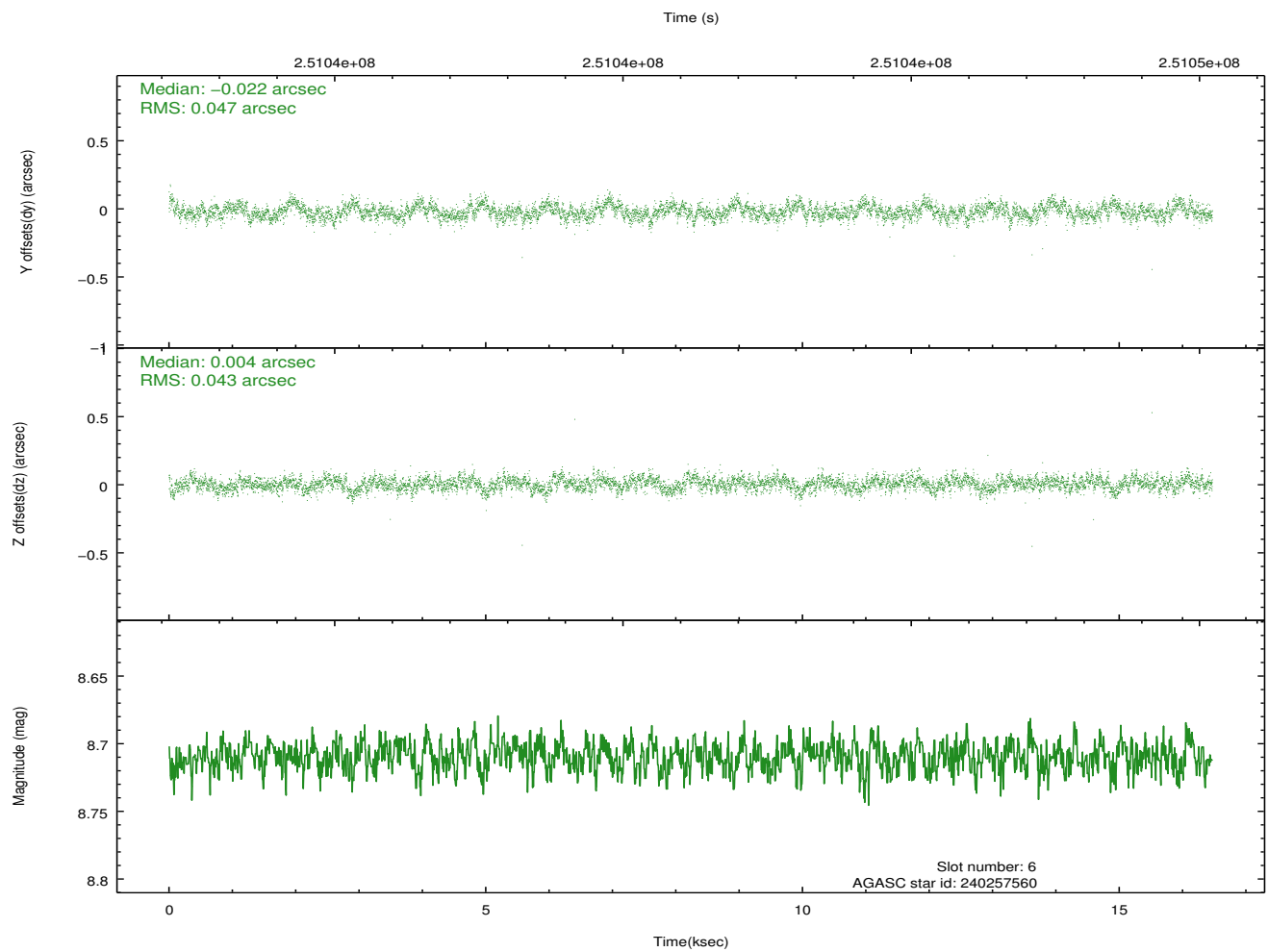
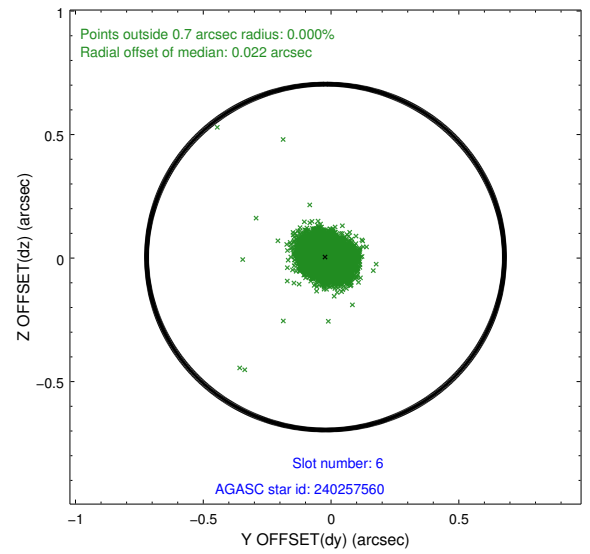
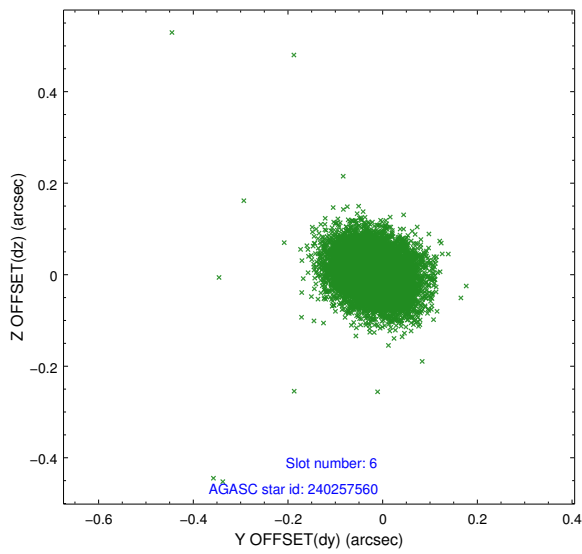
2.4.2 Slot 4



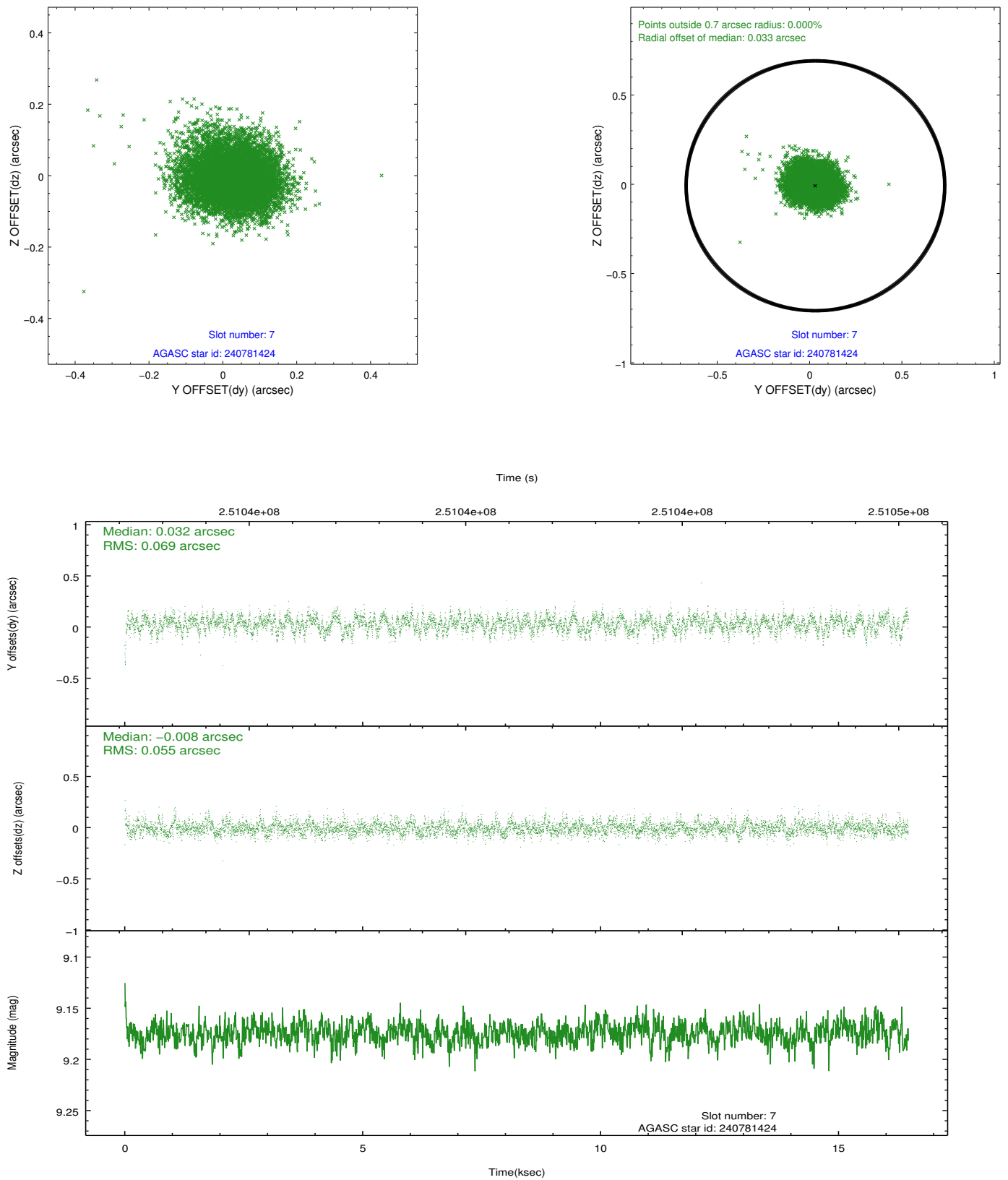
2.4.3 Slot 5



2.4.4 Slot 6

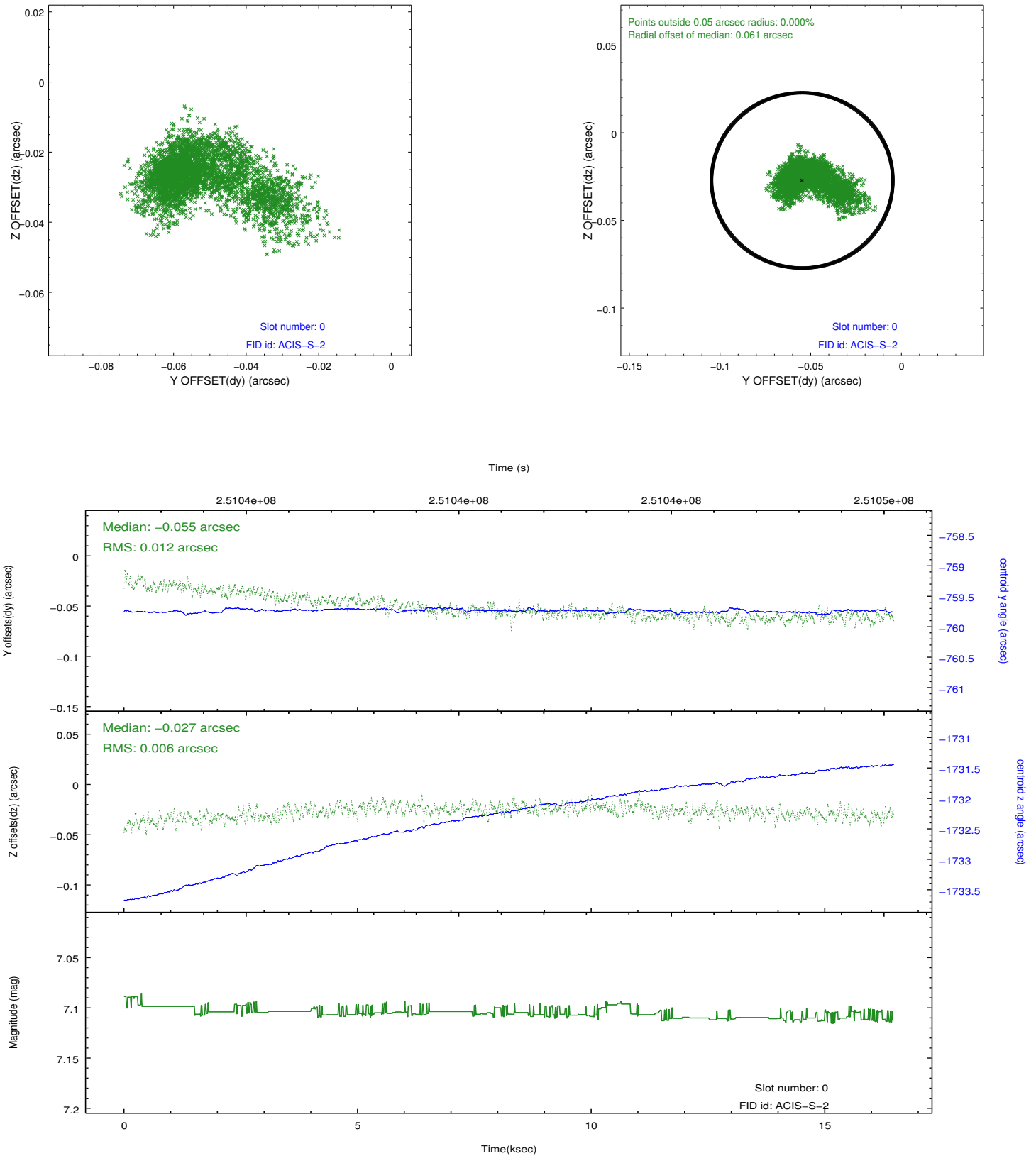


2.4.5 Slot 7

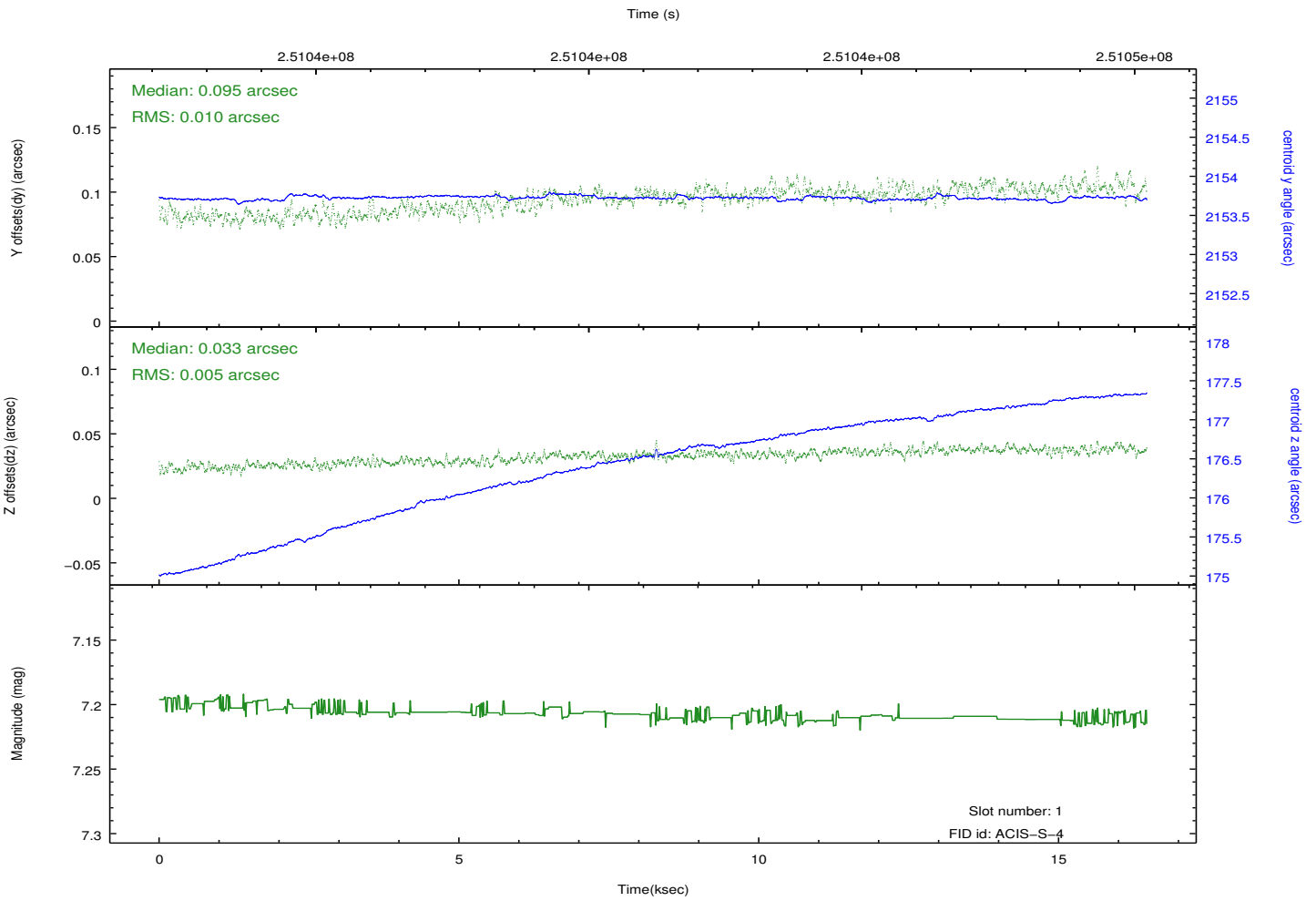
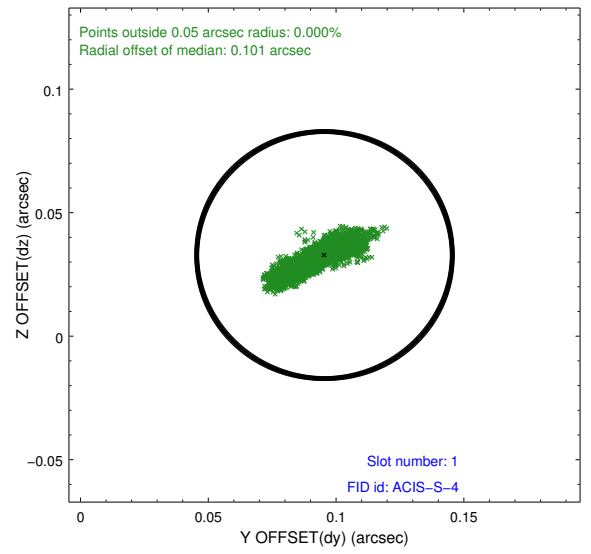
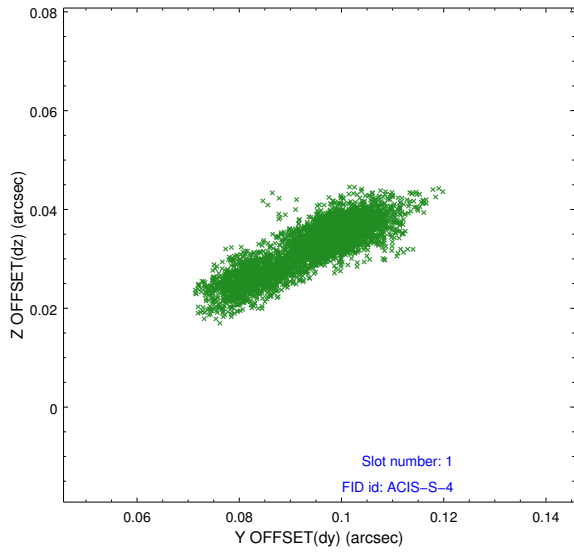


2.5 FID Slots

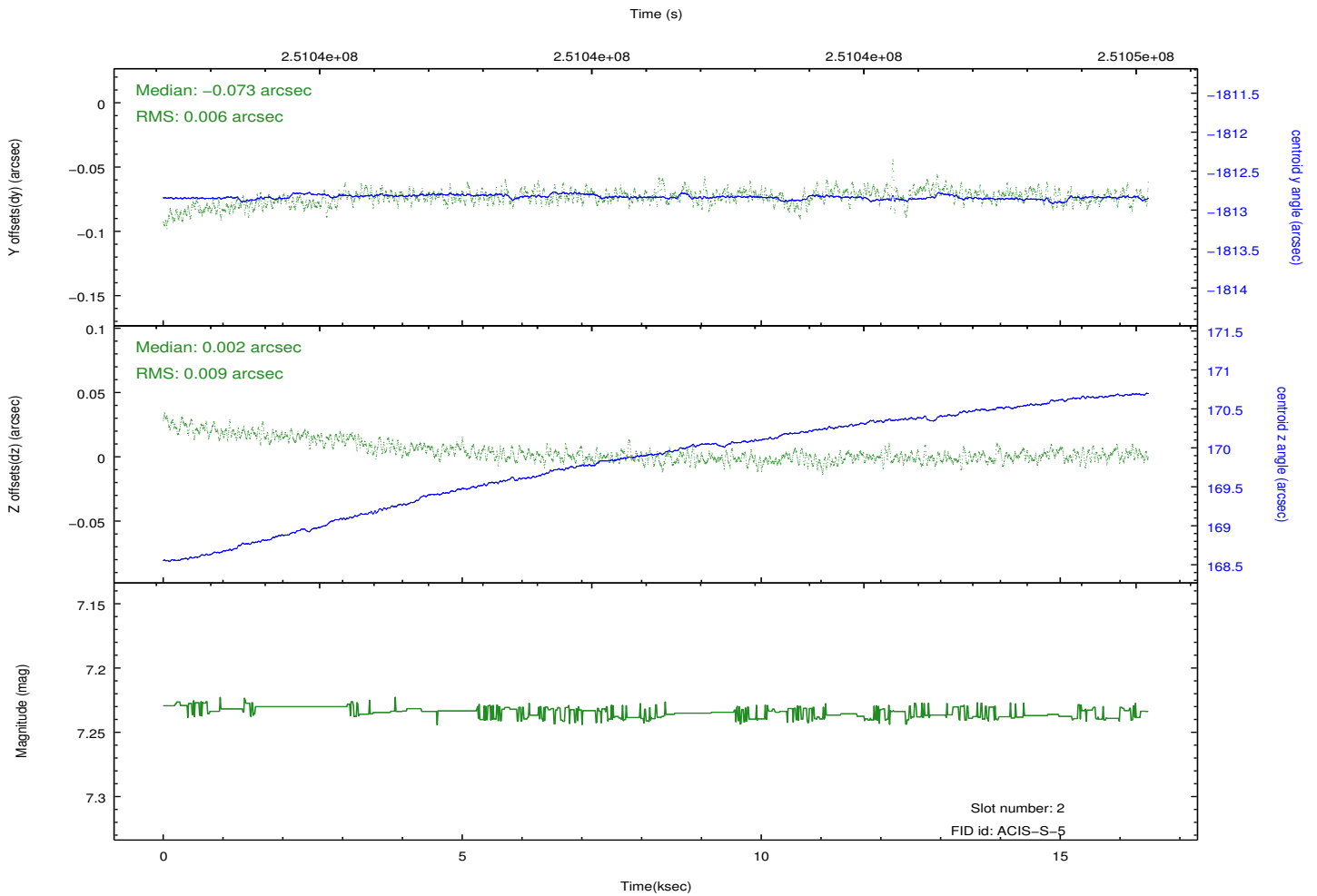
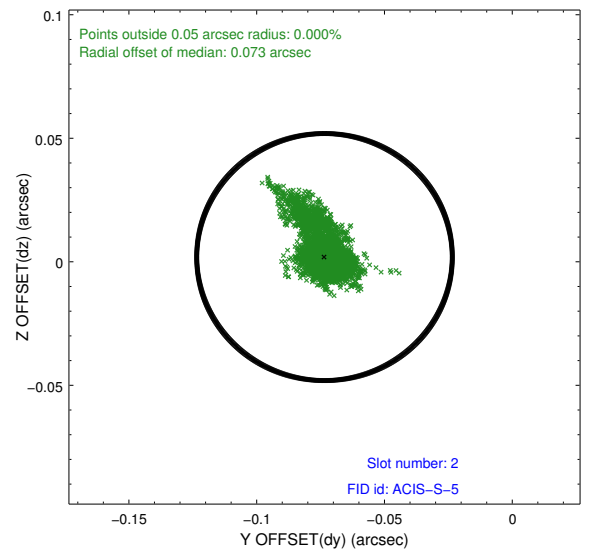
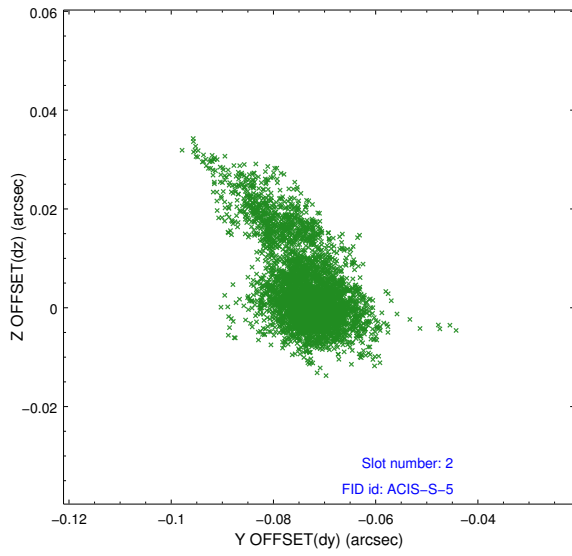
2.5.1 Slot 0



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)	2012.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.46719

A.2 Comments

A spatial region of the original bias map for CCD = 2 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 = 2 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: (66.55102,26.06247), (66.56475,26.06117), (66.56962,26.10170), (66.55624,26.10597)