

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1998 - L2 Version 4
Chandra X-Ray Center

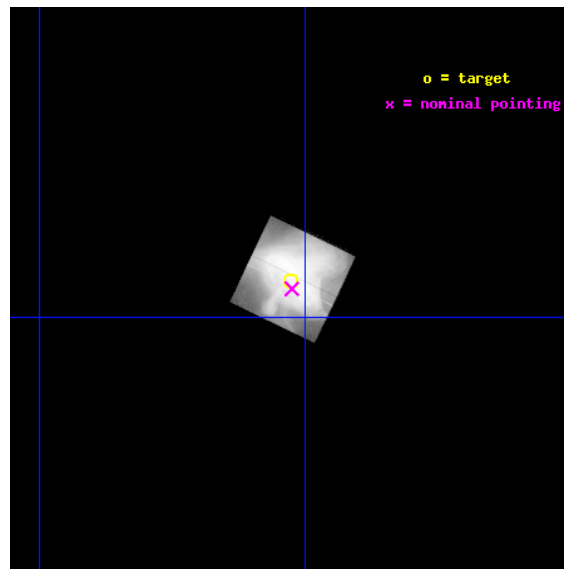
L2 Processing Date : Sep 5 2012

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1 Front

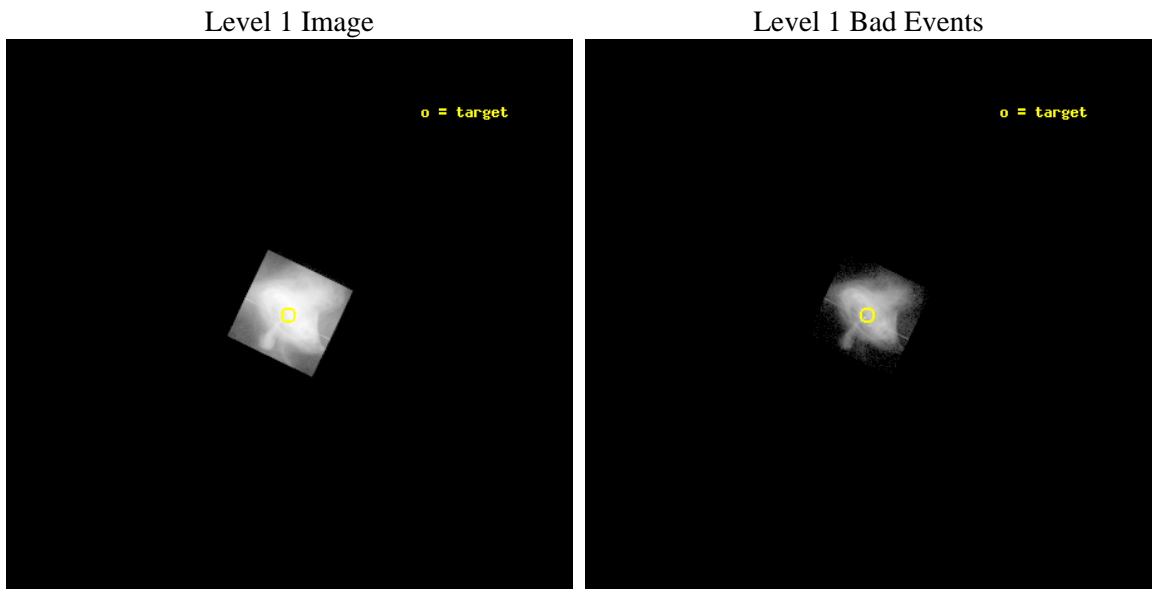
seq_num	500175	Sequence number
obs_id	1998	Observation id
title	COORDINATED CHANDRA/HST OBSERVATIONS OF THE CRAB NEBULA	Proposal t
observer	PROF. JEFF HESTER	Principal investigator
object	CRAB NEBULA	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.631667	Observer's specified target RA [deg]
dec_targ	22.015667	Observer's specified target Dec [deg]
ra_nom	83.631284704744	Nominal RA [deg]
dec_nom	22.012339485473	Nominal Dec [deg]
roll_nom	295.56634209162	Nominal Roll [deg]
revision	4	Processing version of data
ontime	15458.989624903	Sum of GTIs [s]
livetime	2703.8495863334	Livetime [s]
ontime7	15458.989624903	Sum of GTIs [s]
l2events	9168607	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	15458.989624903	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime7	15458.989624903	Sum of GTIs [s]
date	2012-09-05T07:07:57	Date and time of file creation	l1events	10421198	Number of level 1 events
revision	4	Processing version of data			

2.1.3 Events

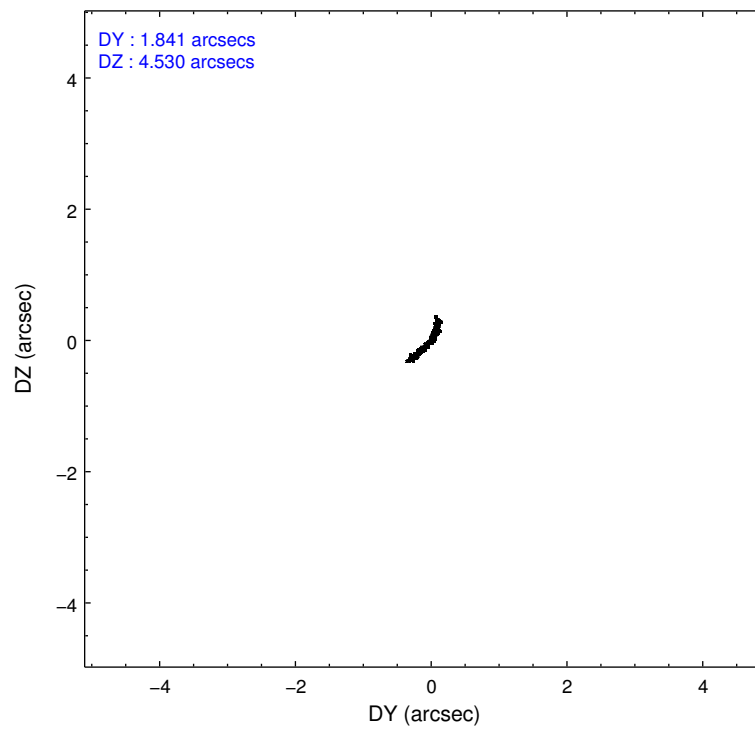
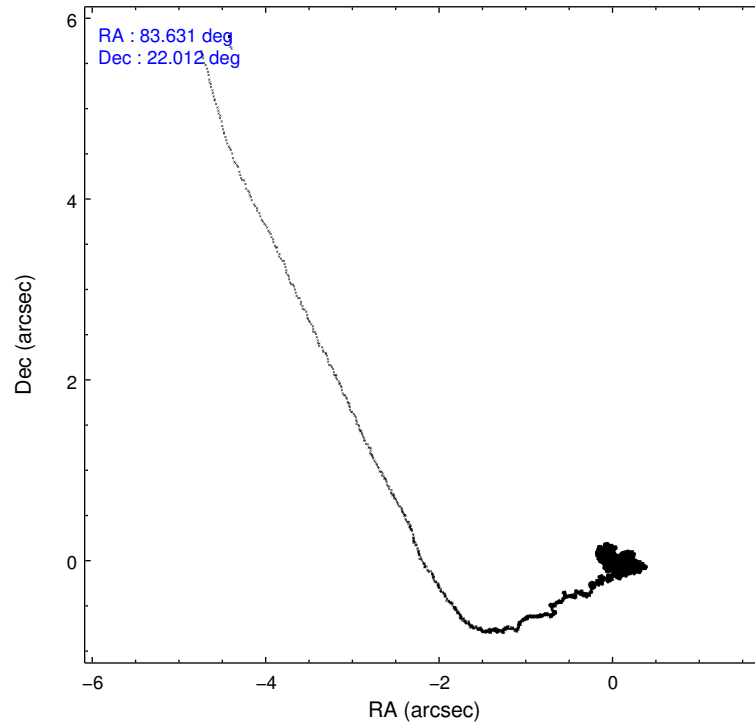
	ccd 7
level 1 events	10421198
rejected events	1120954
rejected %	10%

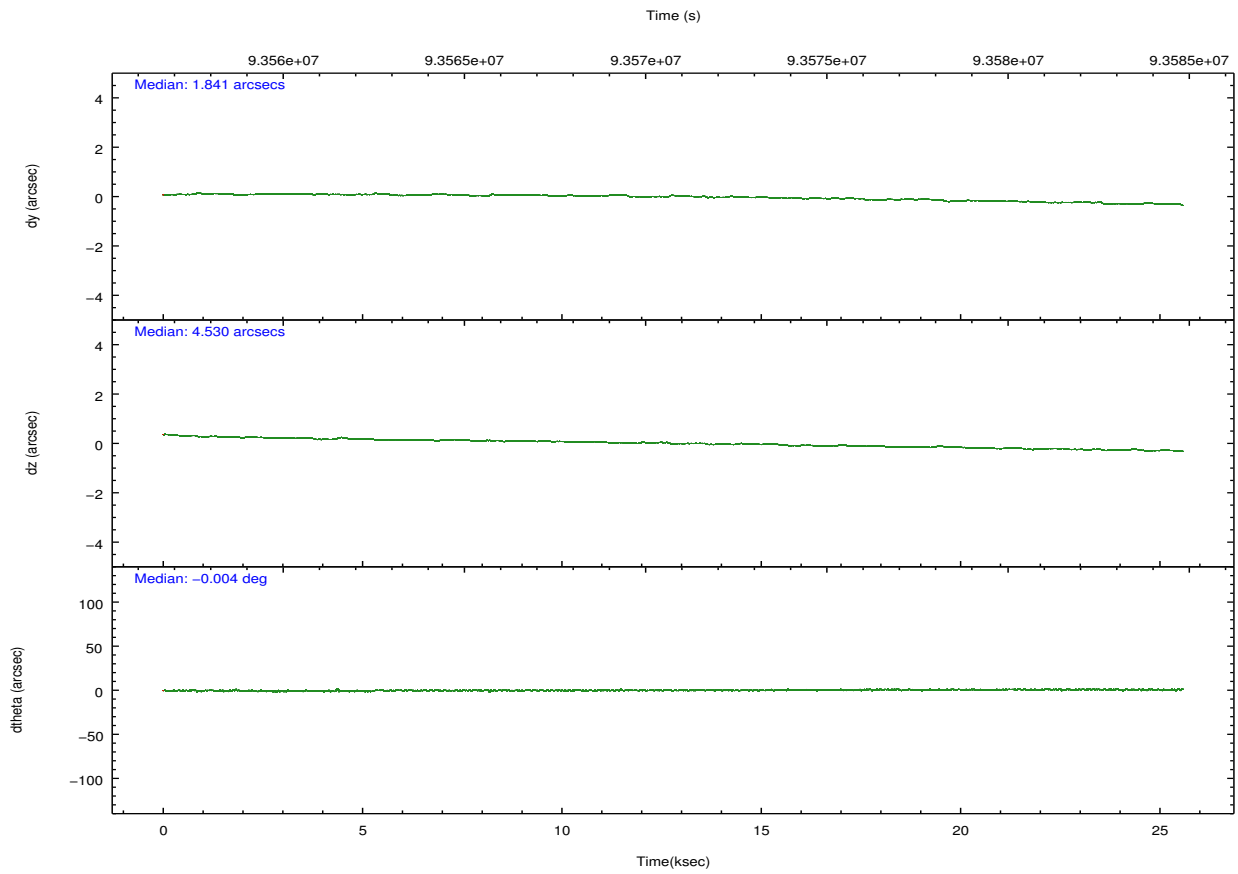
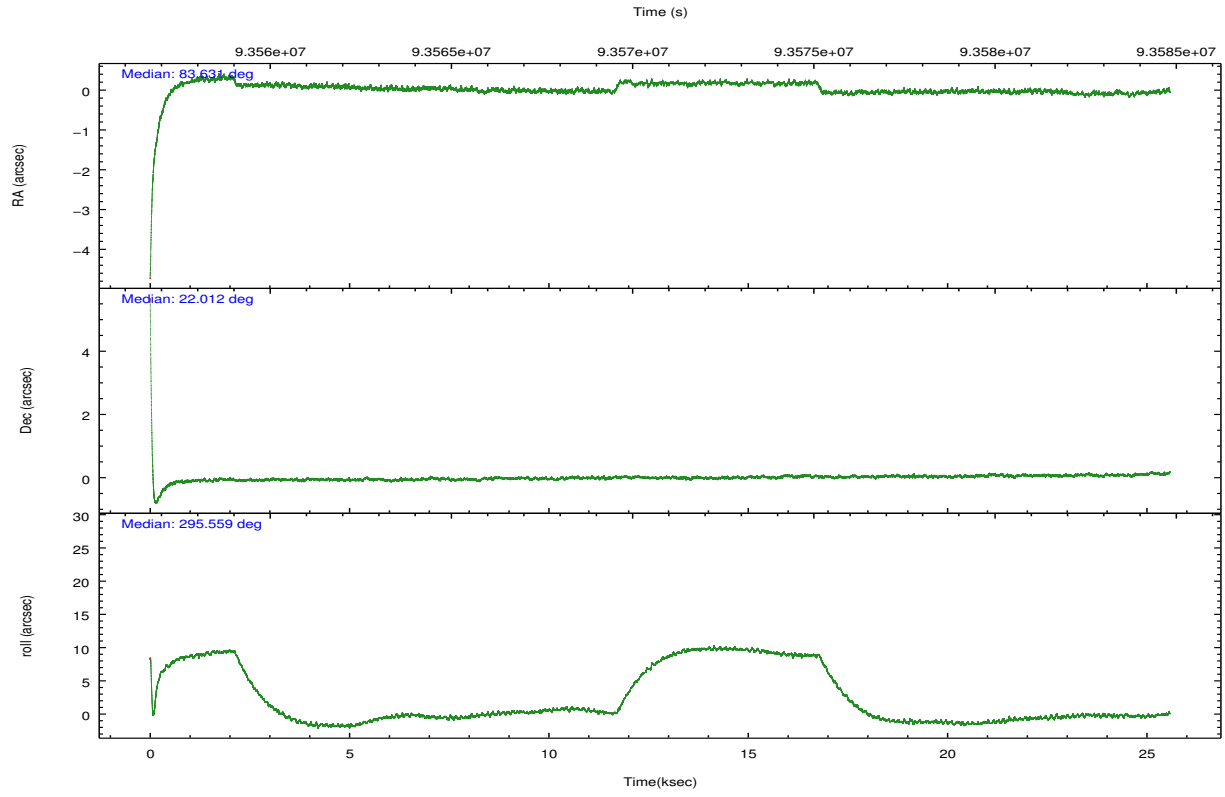
	ccd 7
grade 0 events	2132931
	20%
grade 1 events	140628
	1%
grade 2 events	2484995
	23%
grade 3 events	1097004
	10%
grade 4 events	1068958
	10%
grade 5 events	385383
	3%
grade 6 events	2586497
	24%
grade 7 events	524802
	5%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	83.606836	83.63128470474356	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	22.027611	22.01233948547348	Subarray start row	29	29
[deg] Pointing Roll	295.418872	295.5663420916188	Subarray row count	300	300
[s] Window start time (MET)	93420064.184000	93420064.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	93618064.184000	93618064.184000	[s] Primary exposure time	0.000000	0.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-182.132523	-182.1344861297048			
[mm] SIM translation stage offset	-8	-7.998036453302973			
[s] Observation start time (MET)	93558544.184000	93557389.195251			
Observation start date	2000-12-18T20:28:00	2000-12-18T20:09:49			
[s] Observation end time (MET)	93583544.184000	93583998.708768			
Observation end date	2000-12-19T03:24:40	2000-12-19T03:33:18			
Read mode	TIMED	TIMED			

2.3 Aspect



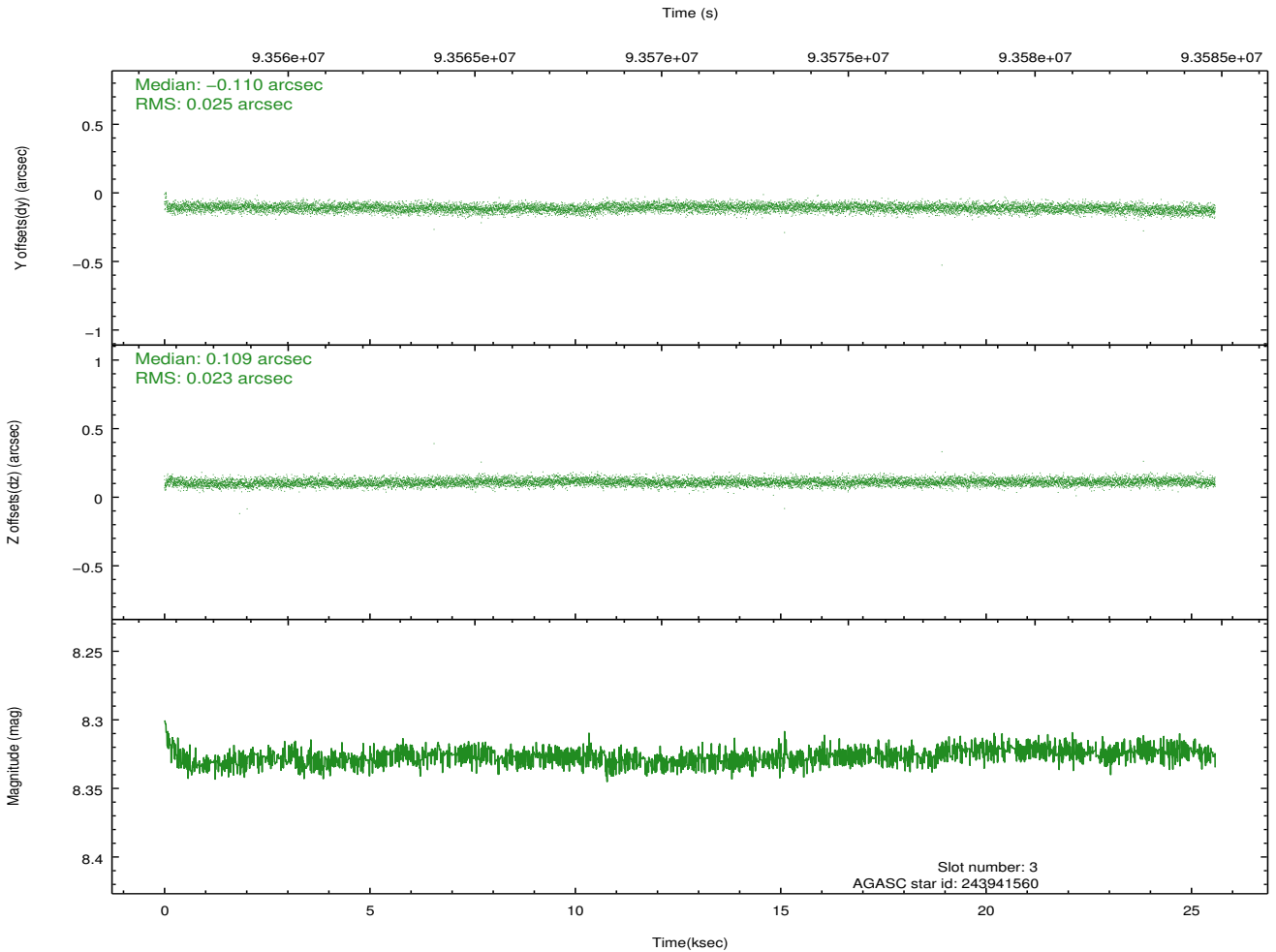
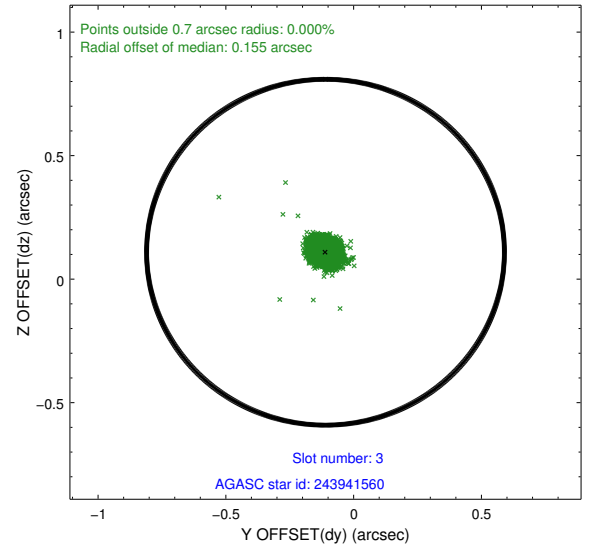
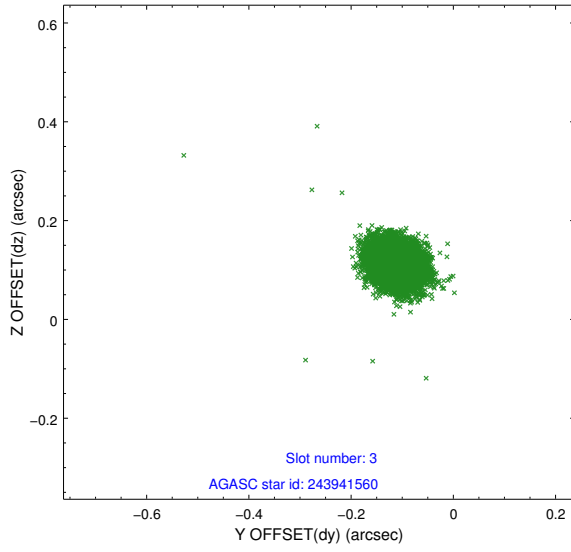


Slot Statistics

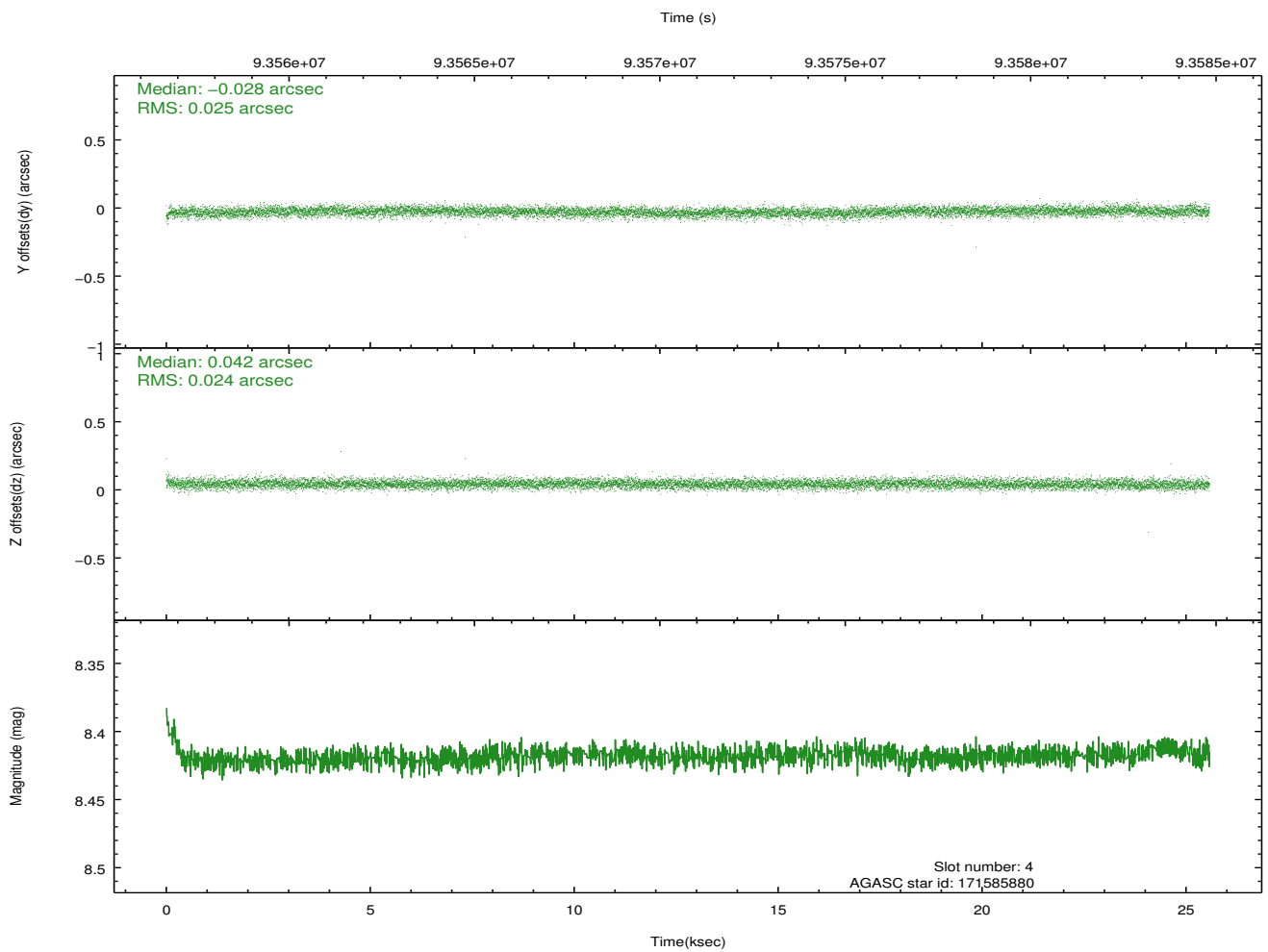
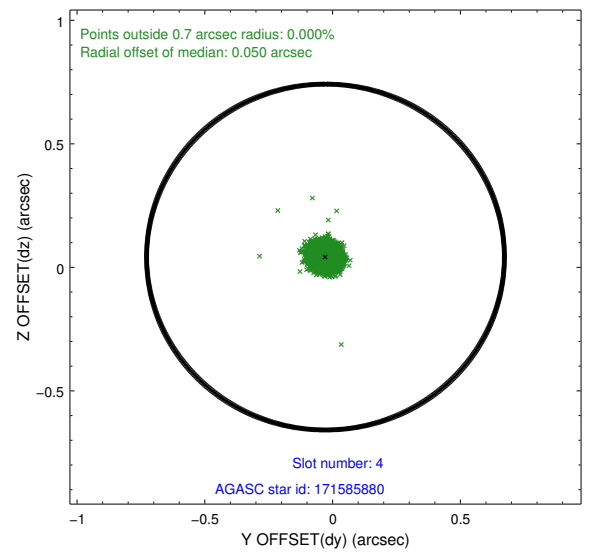
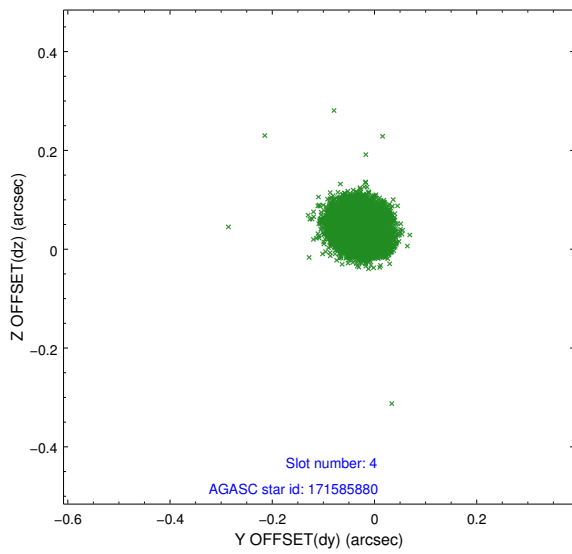
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	6239	-0.078	-0.059	0.007	0.033	0.000000	0.000000	-753.92	-1890.45
1	FID	ACIS-S-4	7.18	6237	0.047	0.047	0.007	0.021	0.000000	0.000000	2159.44	17.98
2	FID	ACIS-S-6	7.42	6237	0.005	0.019	0.008	0.016	0.000000	0.000000	408.30	655.48
3	GUIDE	243941560	8.33	12475	-0.110	0.109	0.035	0.058	83.733264	22.568598	-1578.99	1215.31
4	GUIDE	171585880	8.42	12476	-0.028	0.042	0.037	0.060	83.676260	22.176319	-384.40	438.69
5	GUIDE	171586976	8.50	12478	-0.099	-0.099	0.037	0.062	83.857953	22.438065	-976.79	1388.83
6	GUIDE	171713696	8.87	12477	0.132	-0.284	0.045	0.074	84.473197	21.894804	1666.48	2411.90
7	GUIDE	171597832	9.16	12474	0.106	0.230	0.055	0.093	83.183230	21.366702	1538.21	-2302.82

2.4 Star Slots

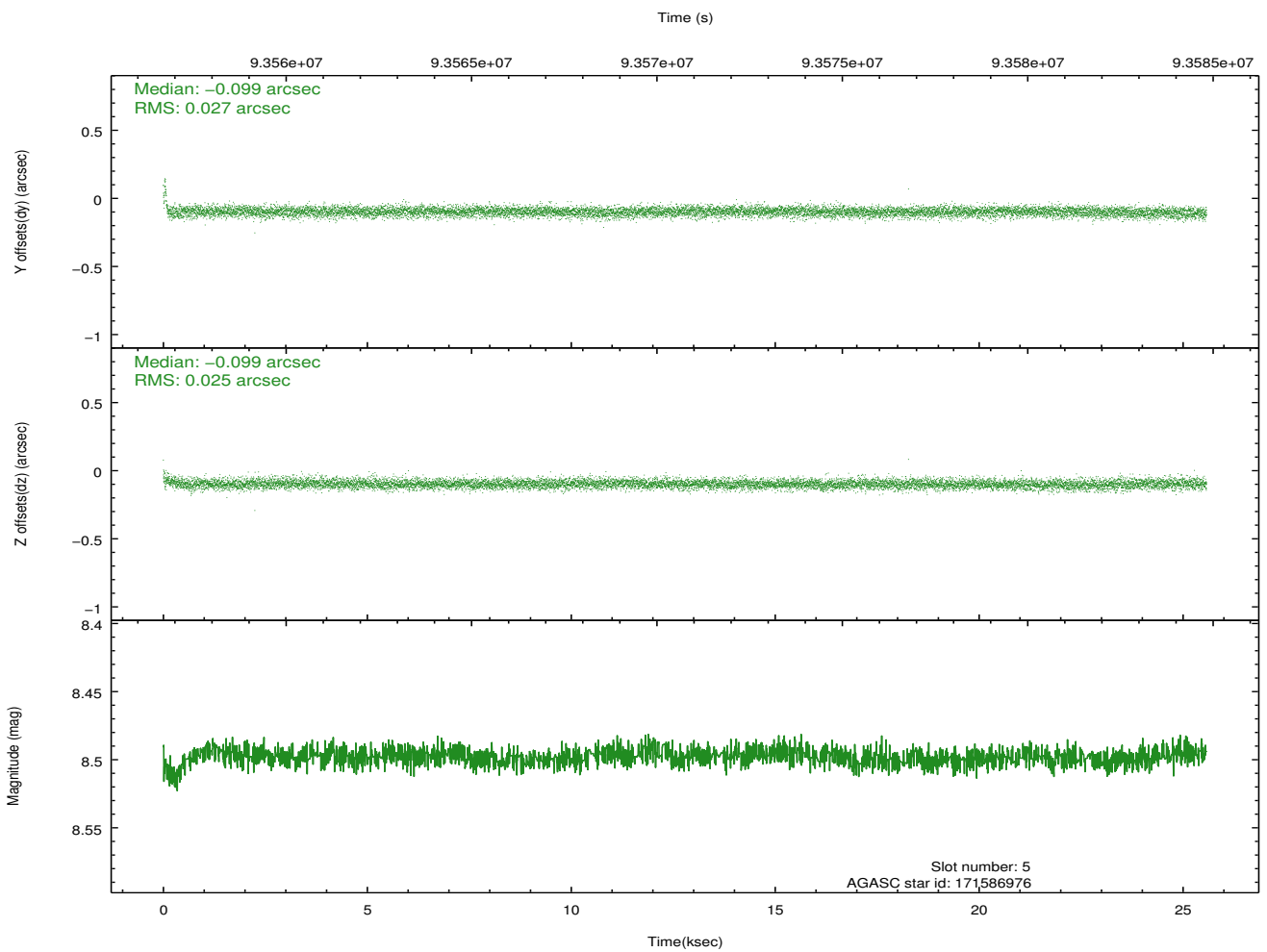
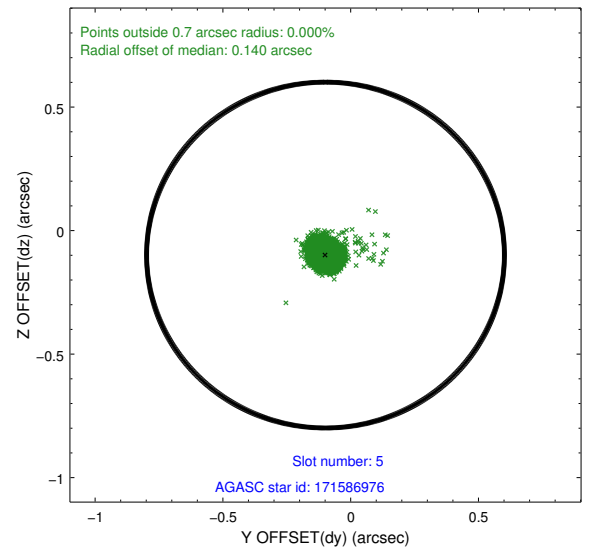
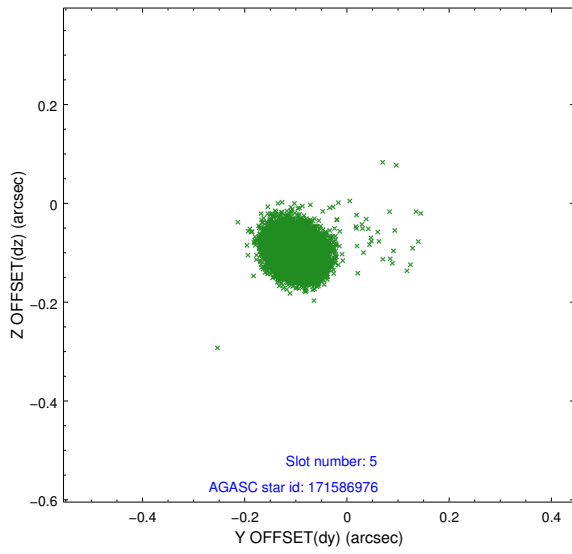
2.4.1 Slot 3



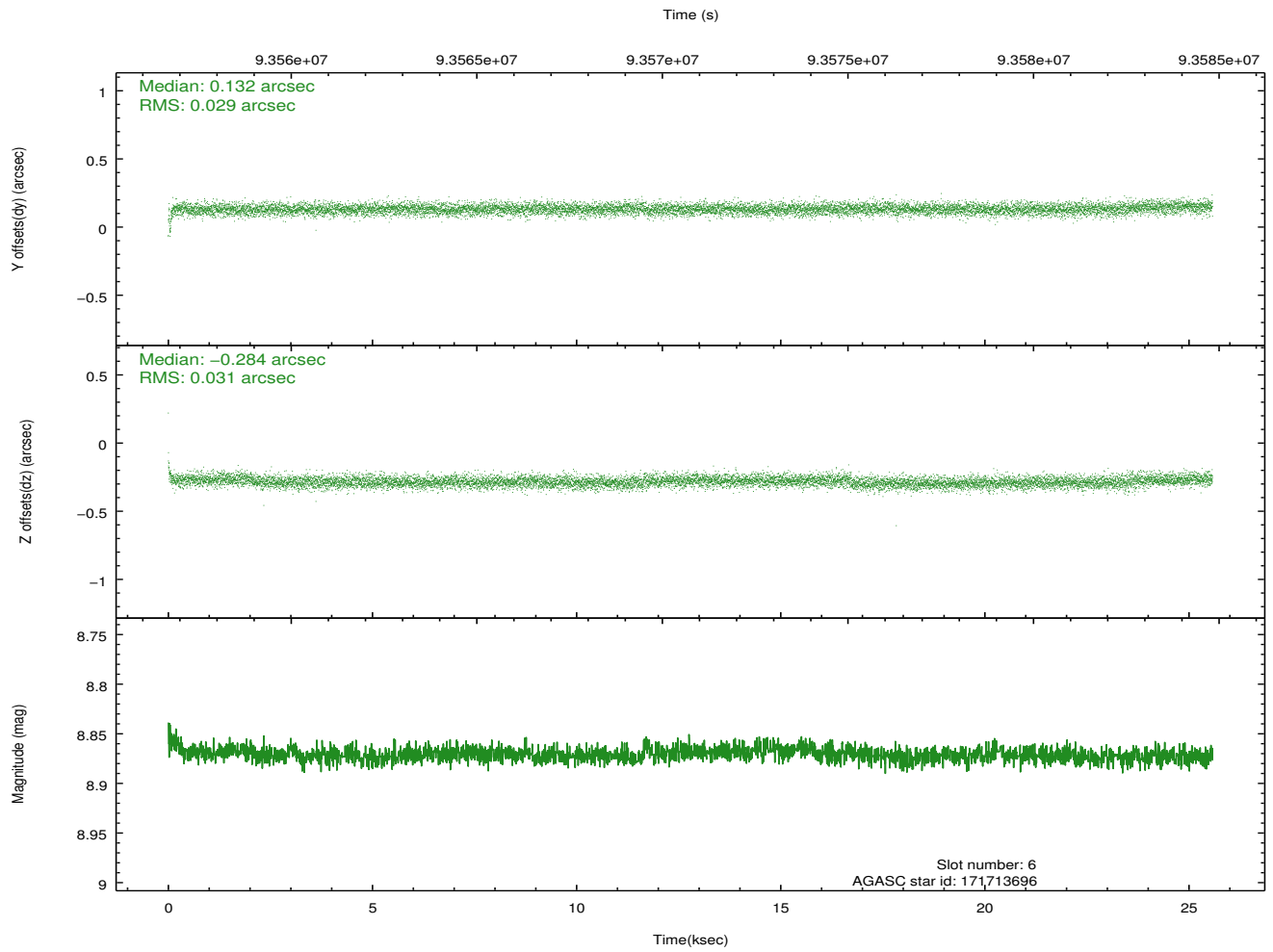
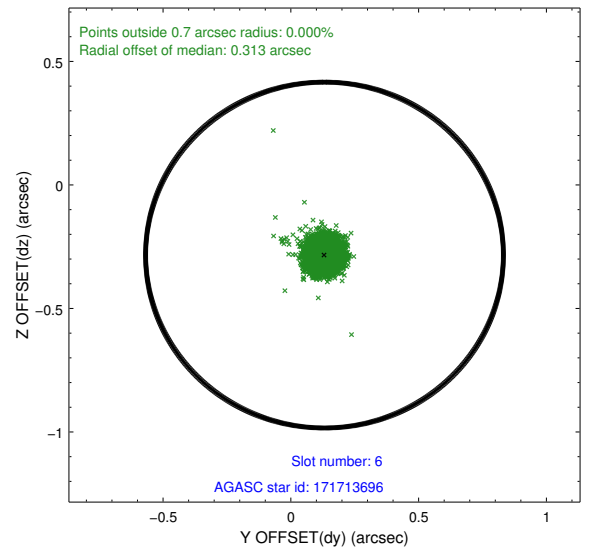
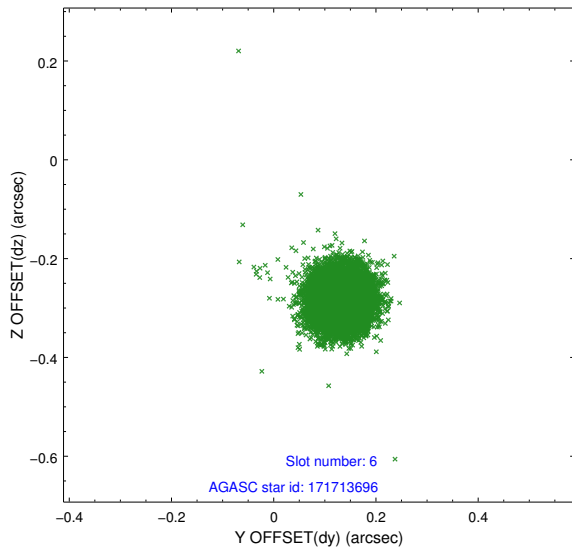
2.4.2 Slot 4



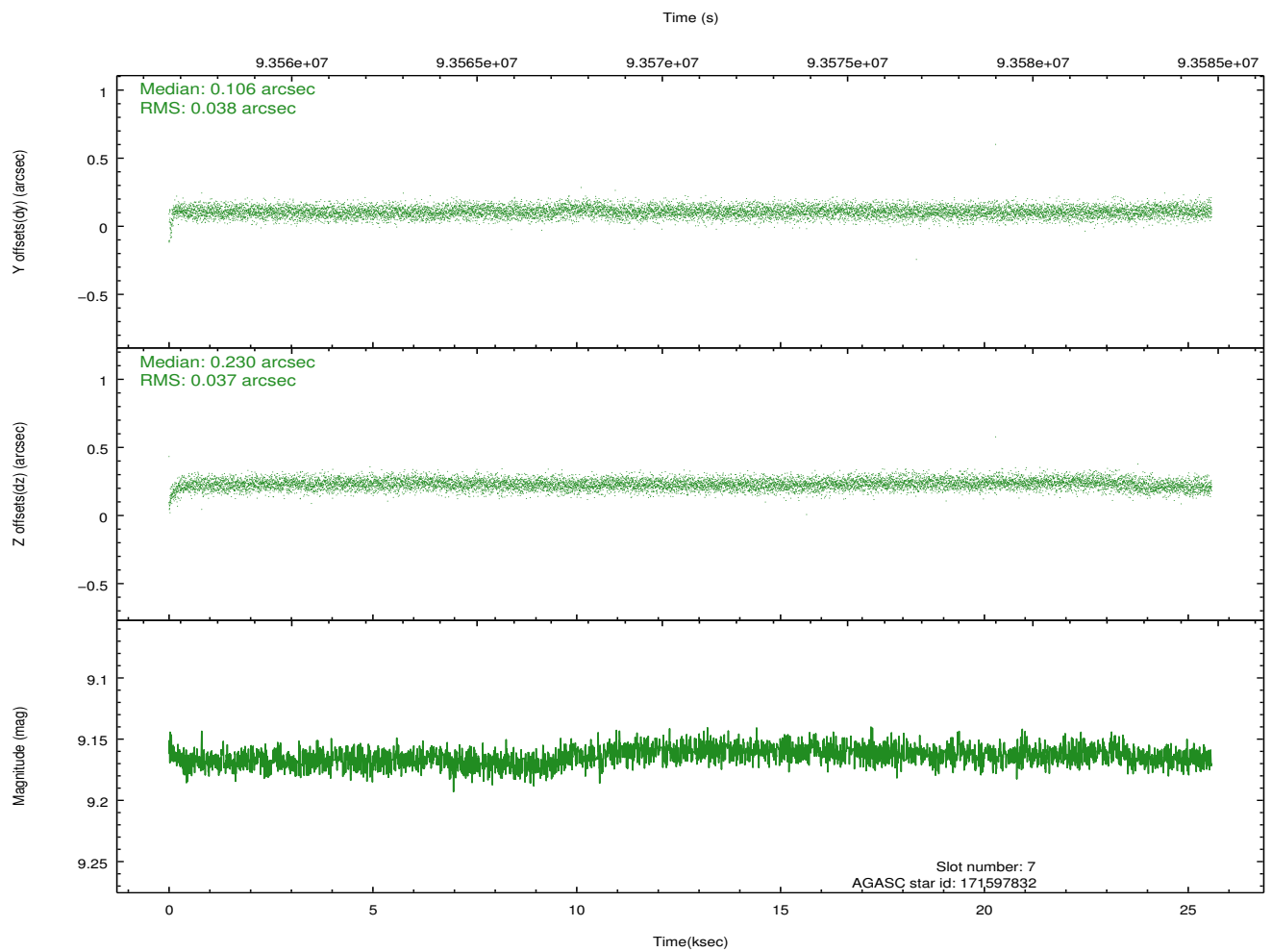
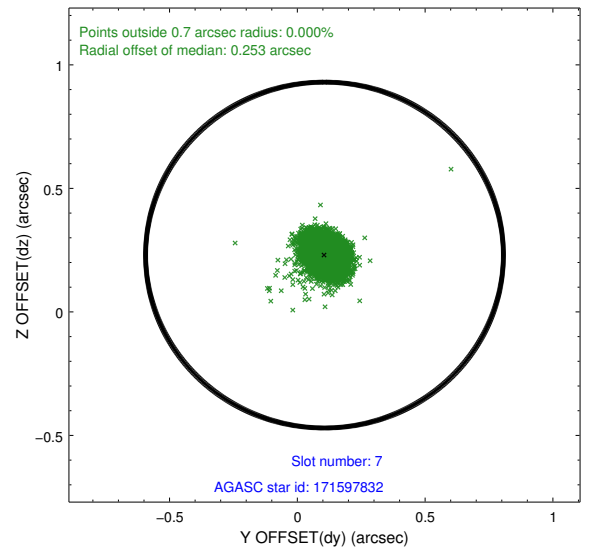
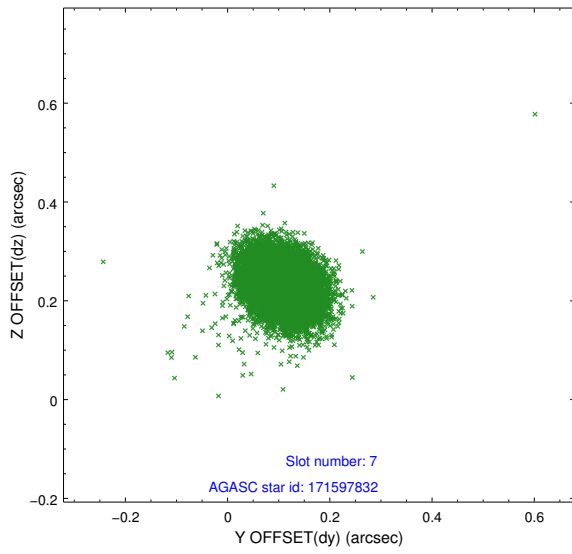
2.4.3 Slot 5



2.4.4 Slot 6

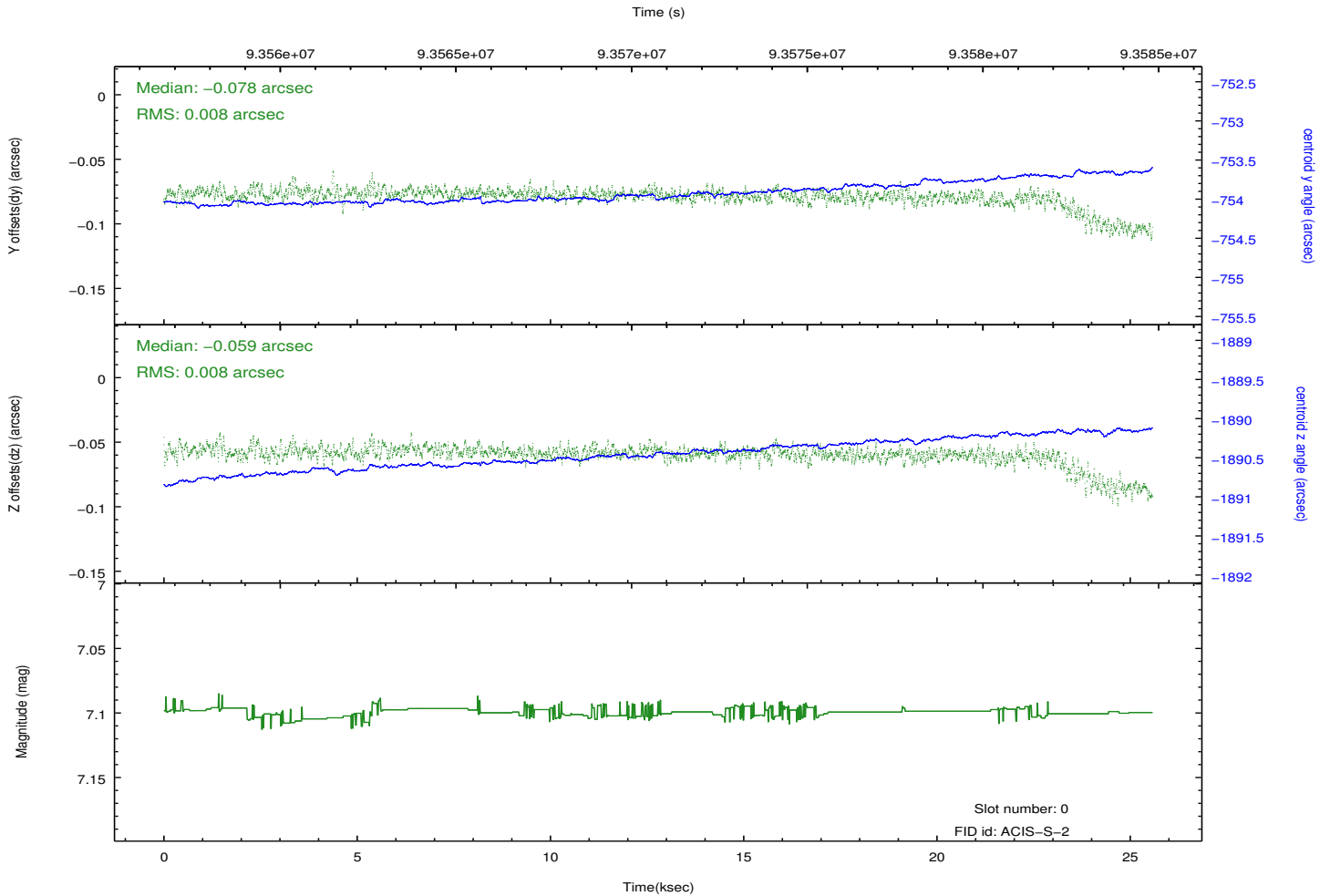
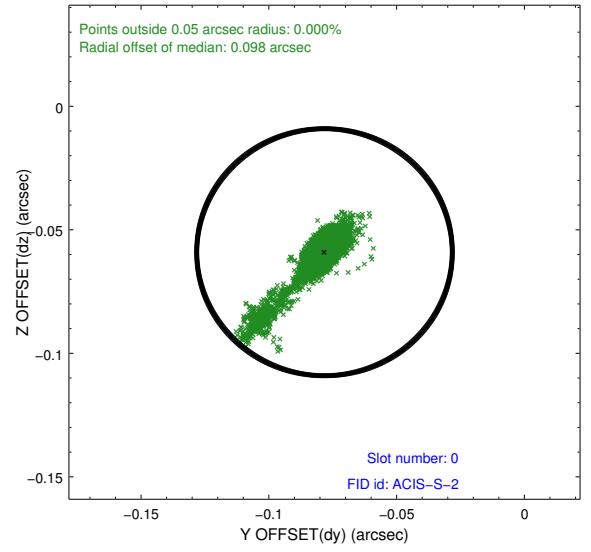
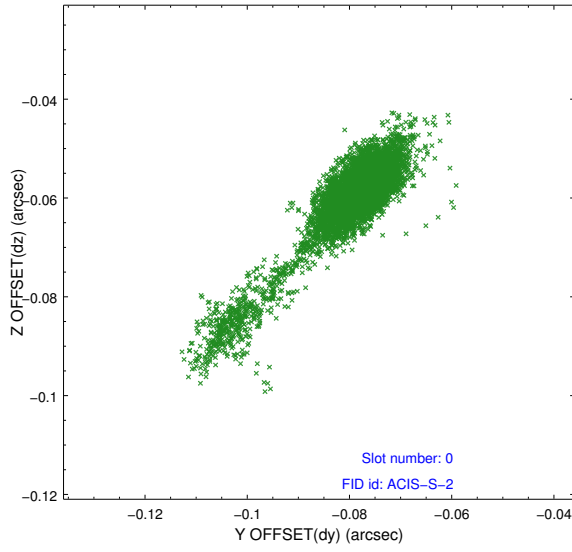


2.4.5 Slot 7

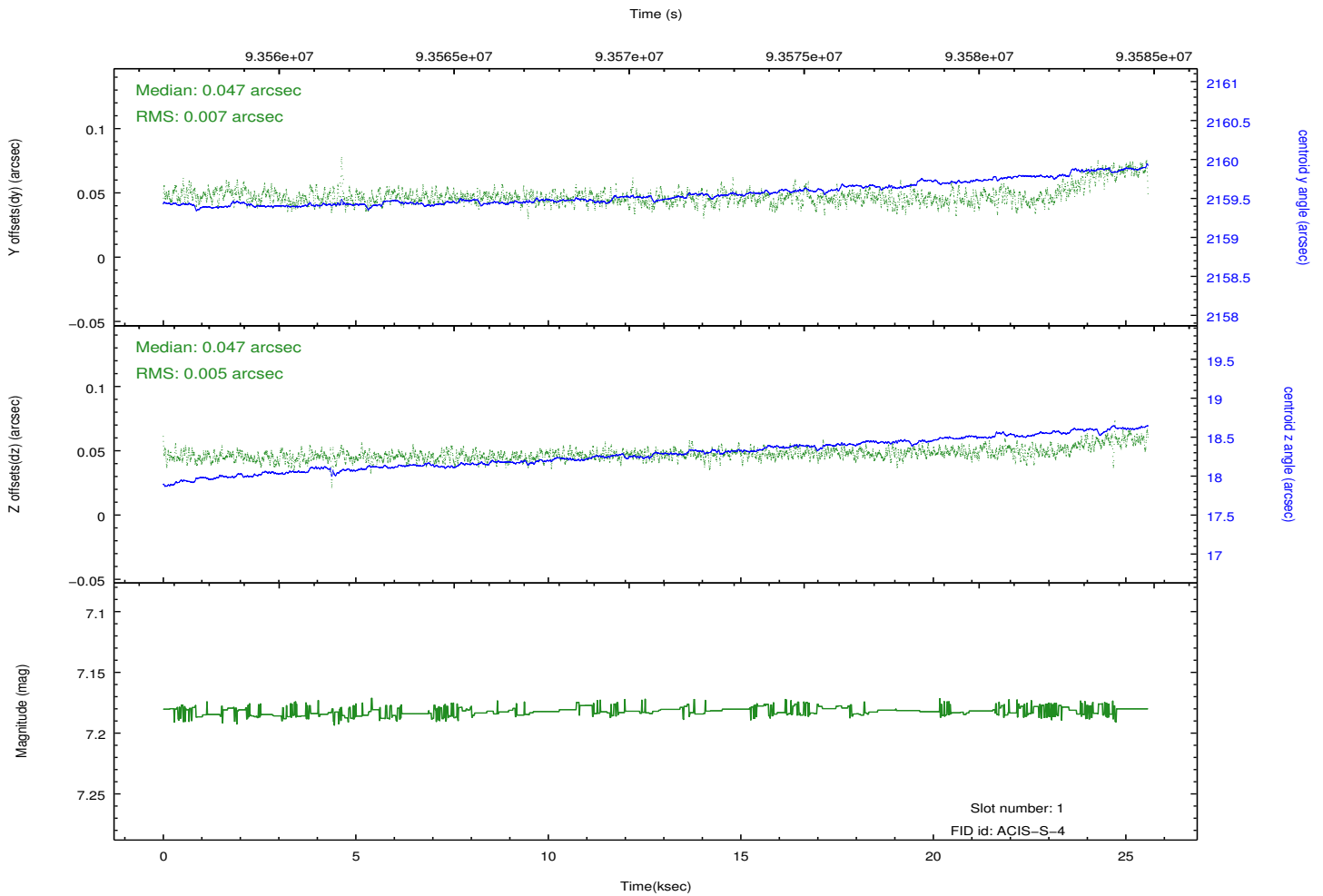
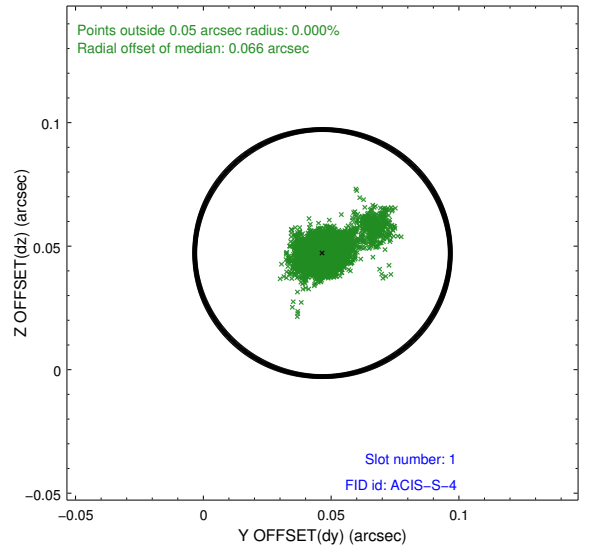
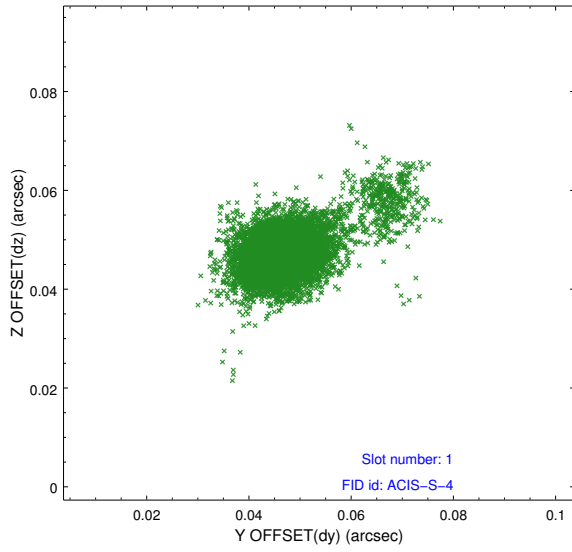


2.5 FID Slots

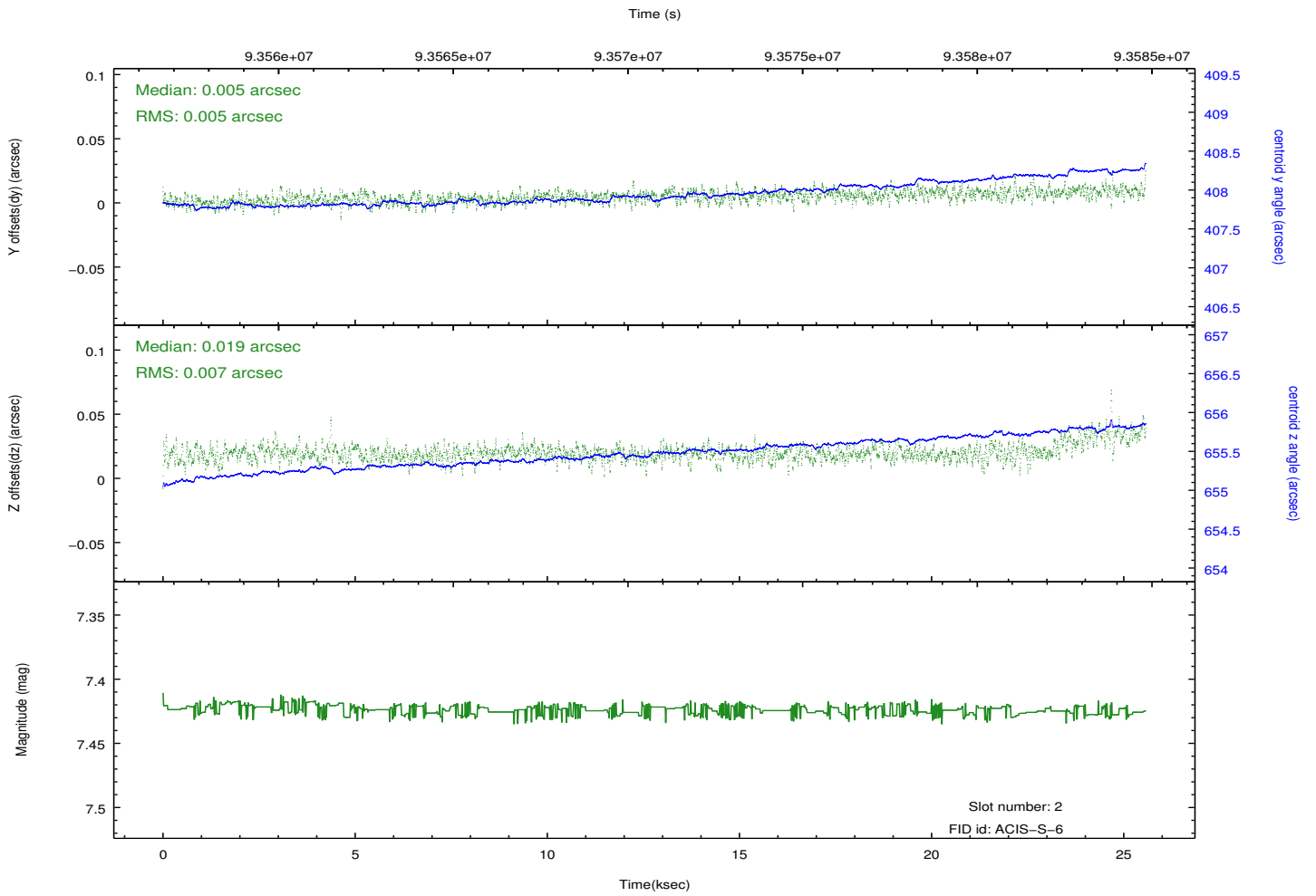
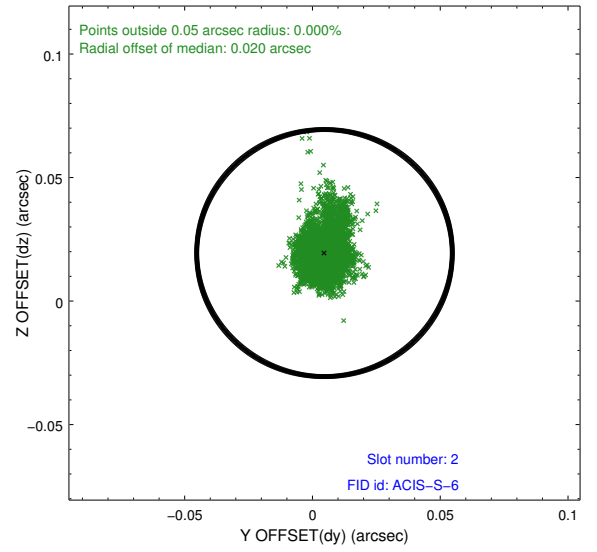
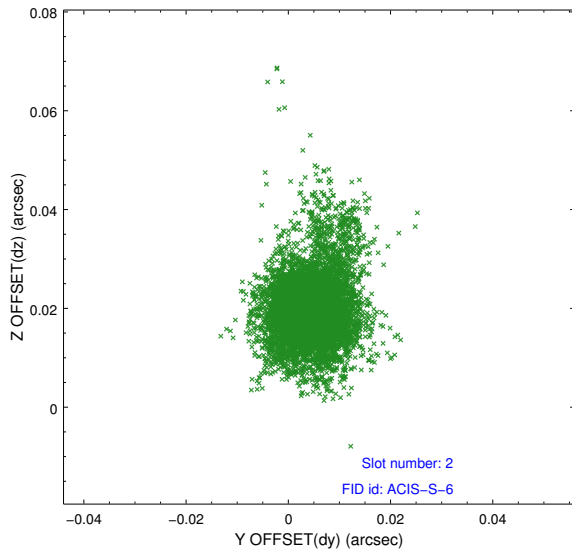
2.5.1 Slot 0



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)	2012.09.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.8

A.2 Comments

Charge time for this observation remains at original value of 23.8 ks, although with the current processing the charge time would have been 15.4 ksec. The high count rate resulted in telemetry saturation and a large number of dropped exposures. The ONTIME value reflects the lost exposure time.

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Window constraint met. Dither is not enabled for this observation.