

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12942 - L2 Version 2
Chandra X-Ray Center

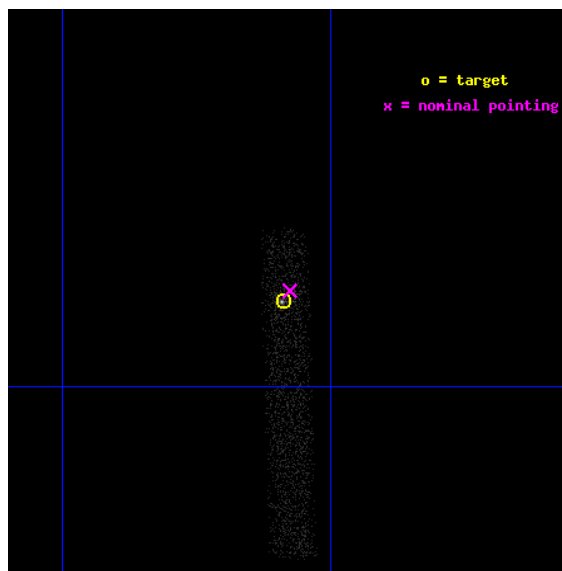
L2 Processing Date : Feb 8 2012

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1 Front

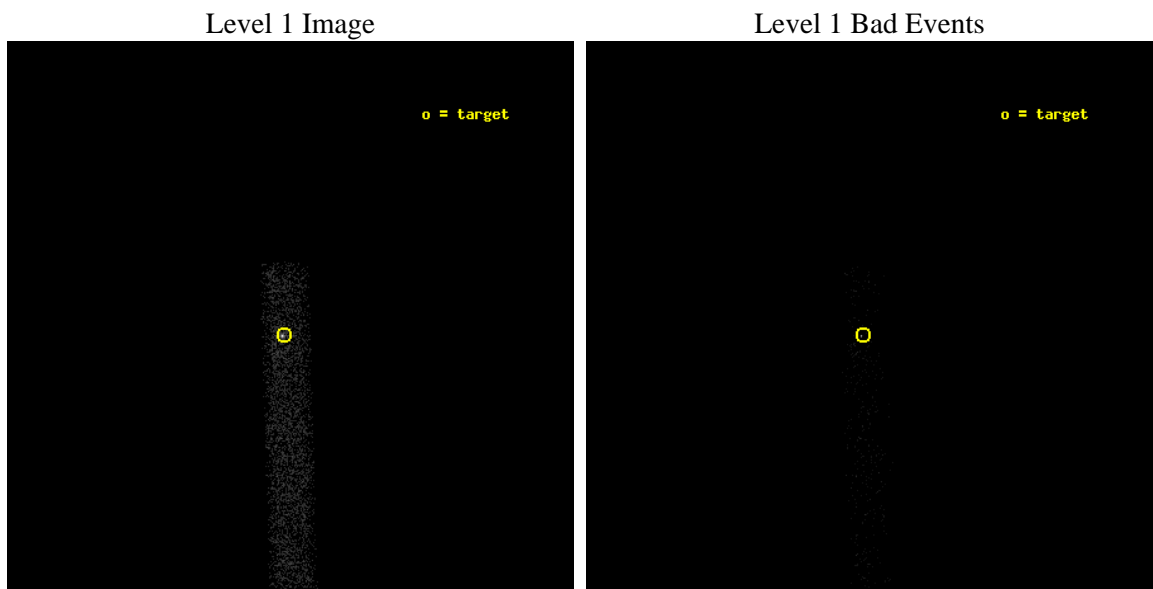
seq_num	900974	Sequence number
obs_id	12942	Observation id
title	Chandra Studies of Unidentified X-ray Sources in the Galactic Bulge	
observer	Dr. Hideyuki Mori	Principal investigator
object	1RXS J171405.2-202747	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	258.521667	Observer's specified target RA [deg]
dec_targ	-20.463056	Observer's specified target Dec [deg]
ra_nom	258.51900207875	Nominal RA [deg]
dec_nom	-20.458951928515	Nominal Dec [deg]
roll_nom	88.253645278094	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4009.5997610092	Sum of GTIs [s]
livetime	3636.4953392066	Livetime [s]
ontime7	4009.5997610092	Sum of GTIs [s]
l2events	5210	Number of level 2 events



2 OBI

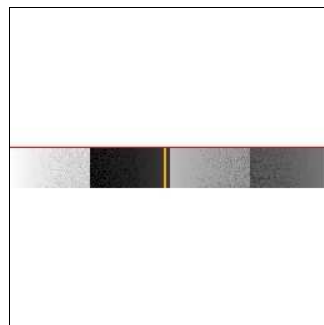
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	4009.5997610092	Sum of GTIs [s]
caldsver	4.4.7	 	ontime7	4009.5997610092	Sum of GTIs [s]
date	2012-02-08T22:10:11	Date and time of file creation	l1events	7898	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

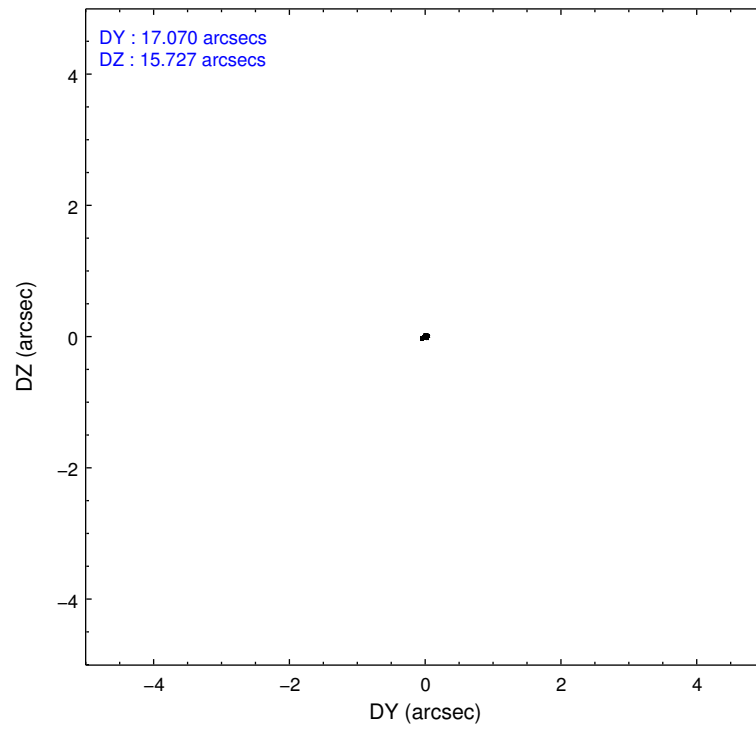
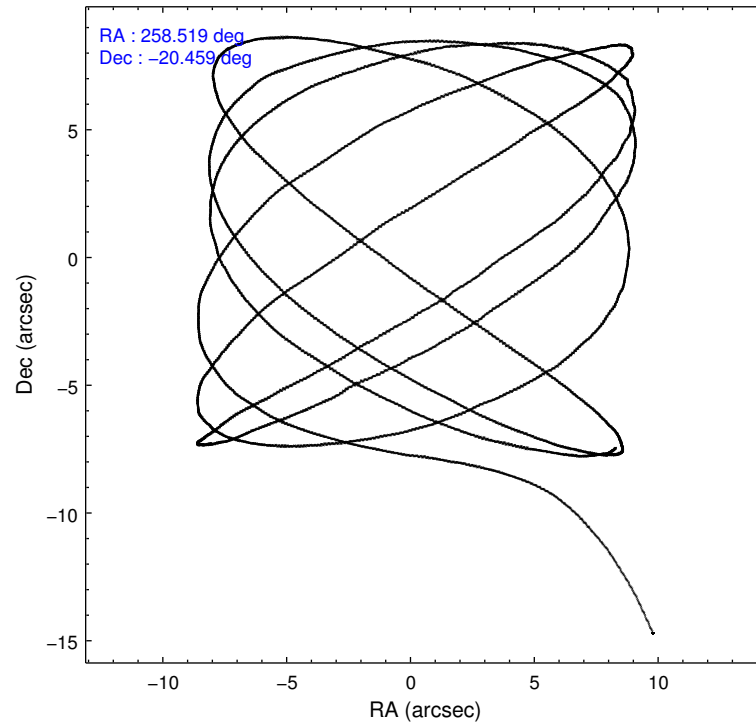
	ccd 7
level 1 events	7898
rejected events	2605
rejected %	32%

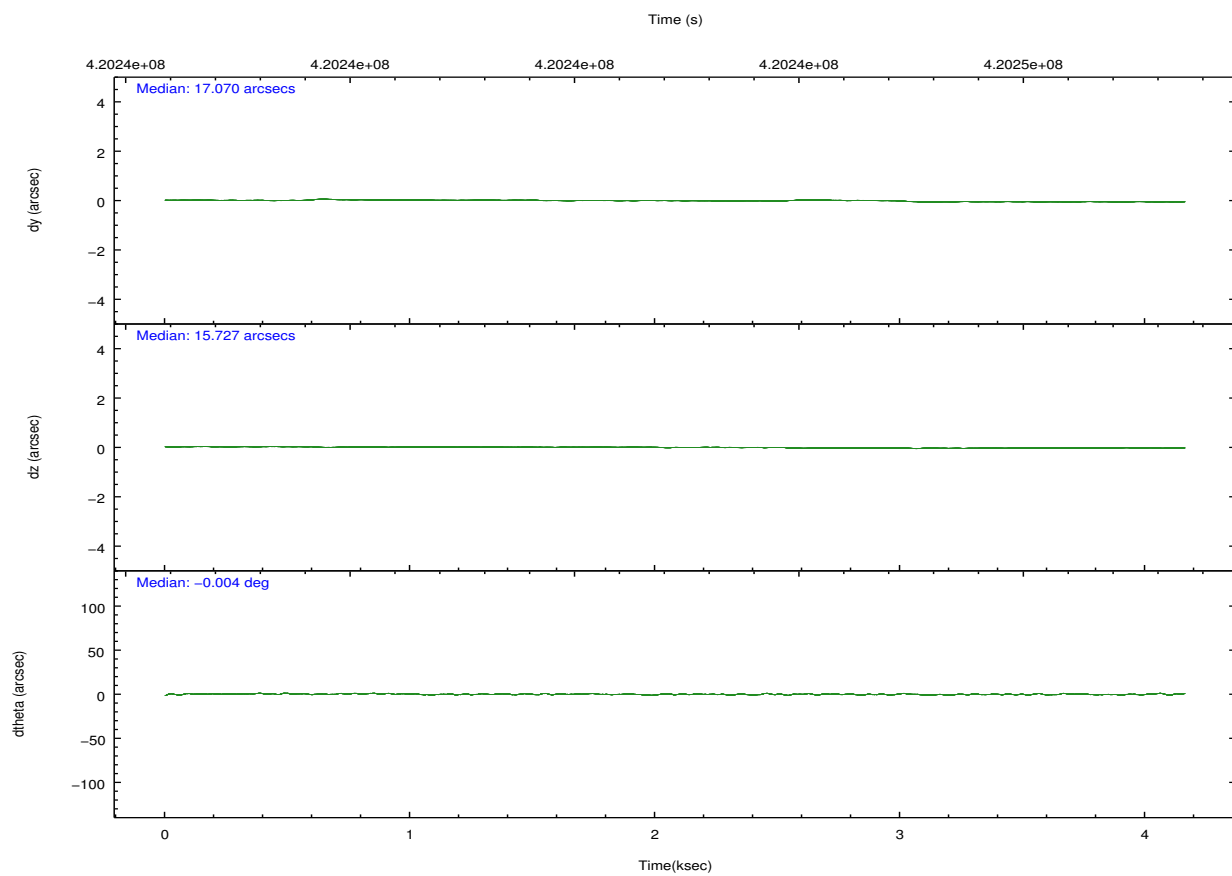
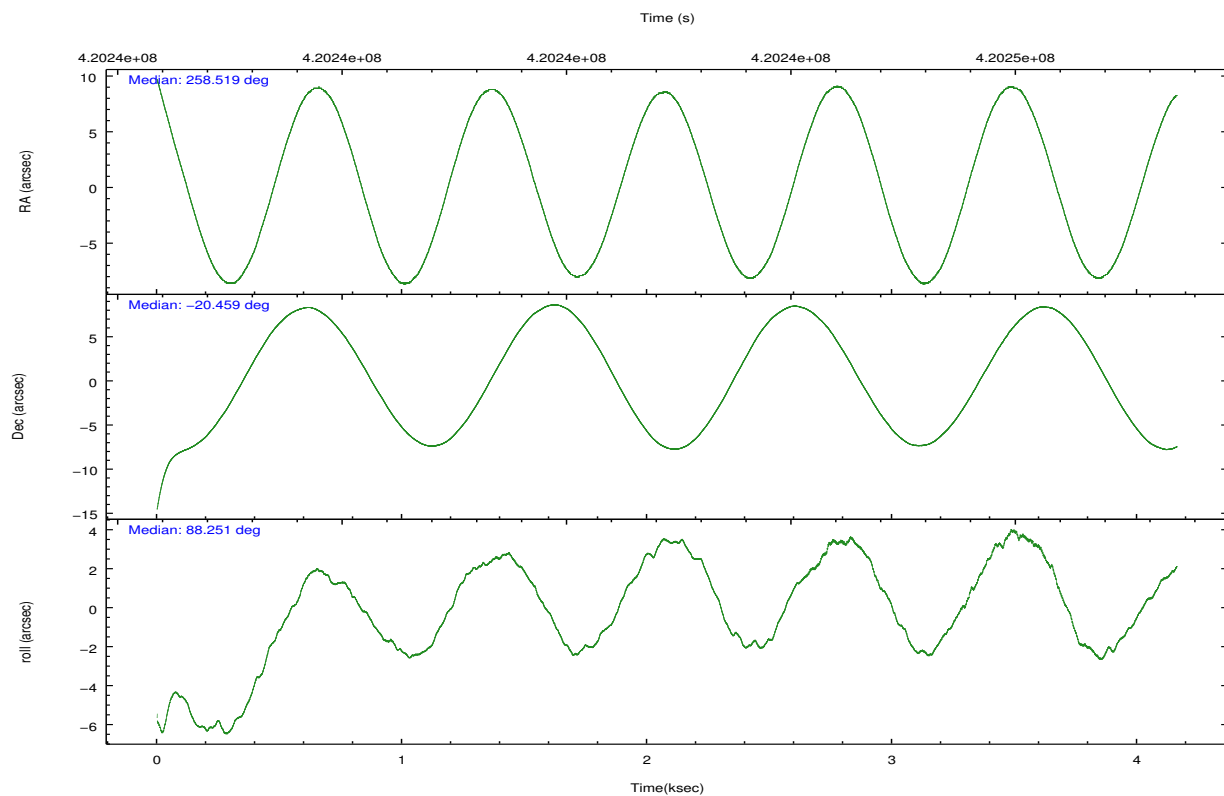
	ccd 7
grade 0 events	1031
	13%
grade 1 events	32
	0%
grade 2 events	1188
	15%
grade 3 events	645
	8%
grade 4 events	623
	7%
grade 5 events	581
	7%
grade 6 events	1809
	22%
grade 7 events	1989
	25%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	258.533254	258.5190020787466	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-20.482757	-20.45895192851512	Subarray start row	449	449
[deg] Pointing Roll	88.101999	88.2536452780941	Subarray row count	128	128
[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	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	420242534.184000	420241152.26609			
Observation start date	2011-04-26T22:01:08	2011-04-26T21:39:12			
[s] Observation end time (MET)	420246534.184000	420247307.39141			
Observation end date	2011-04-26T23:07:48	2011-04-26T23:21:47			
Read mode	TIMED	TIMED			

2.3 Aspect



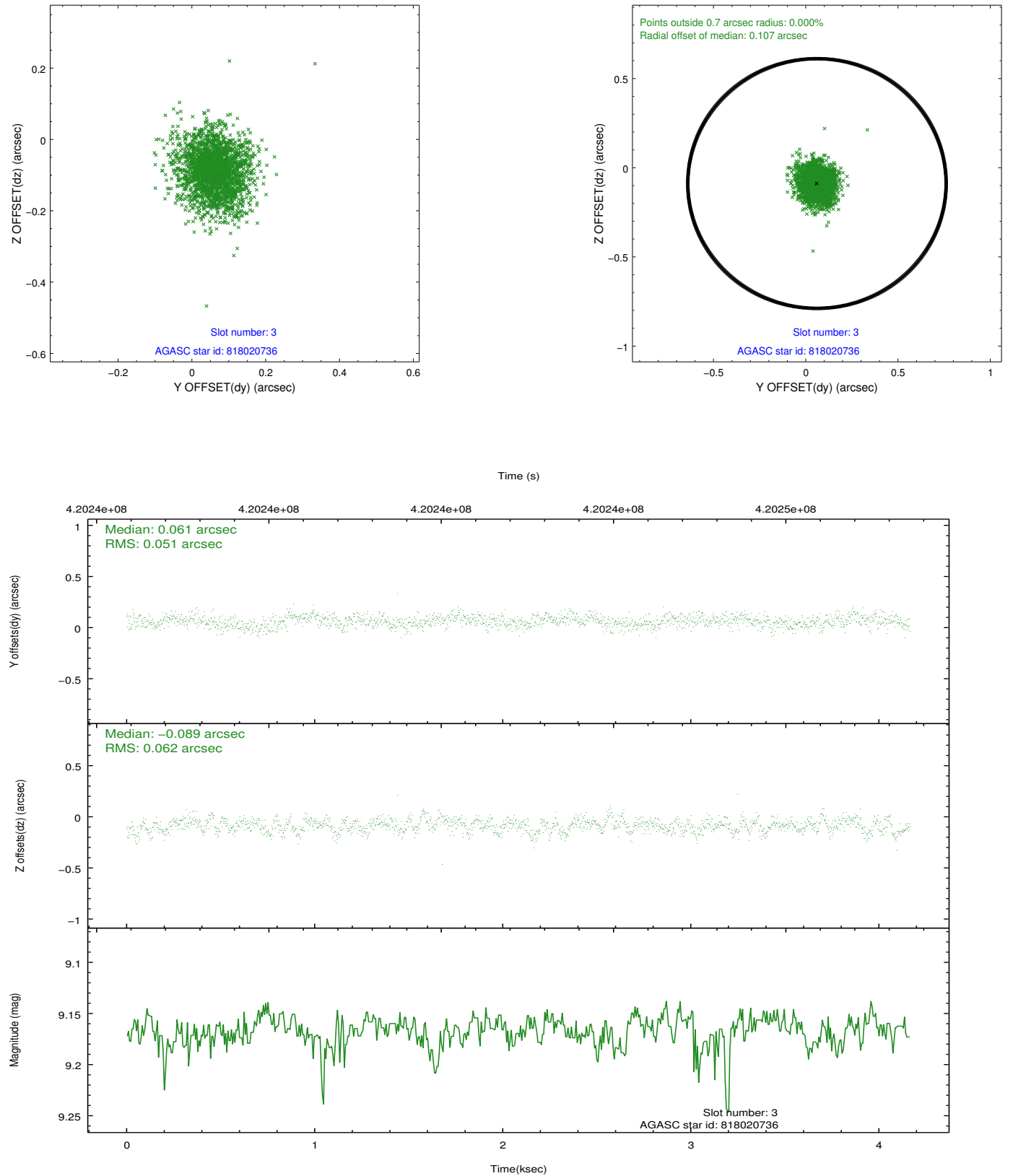


Slot Statistics

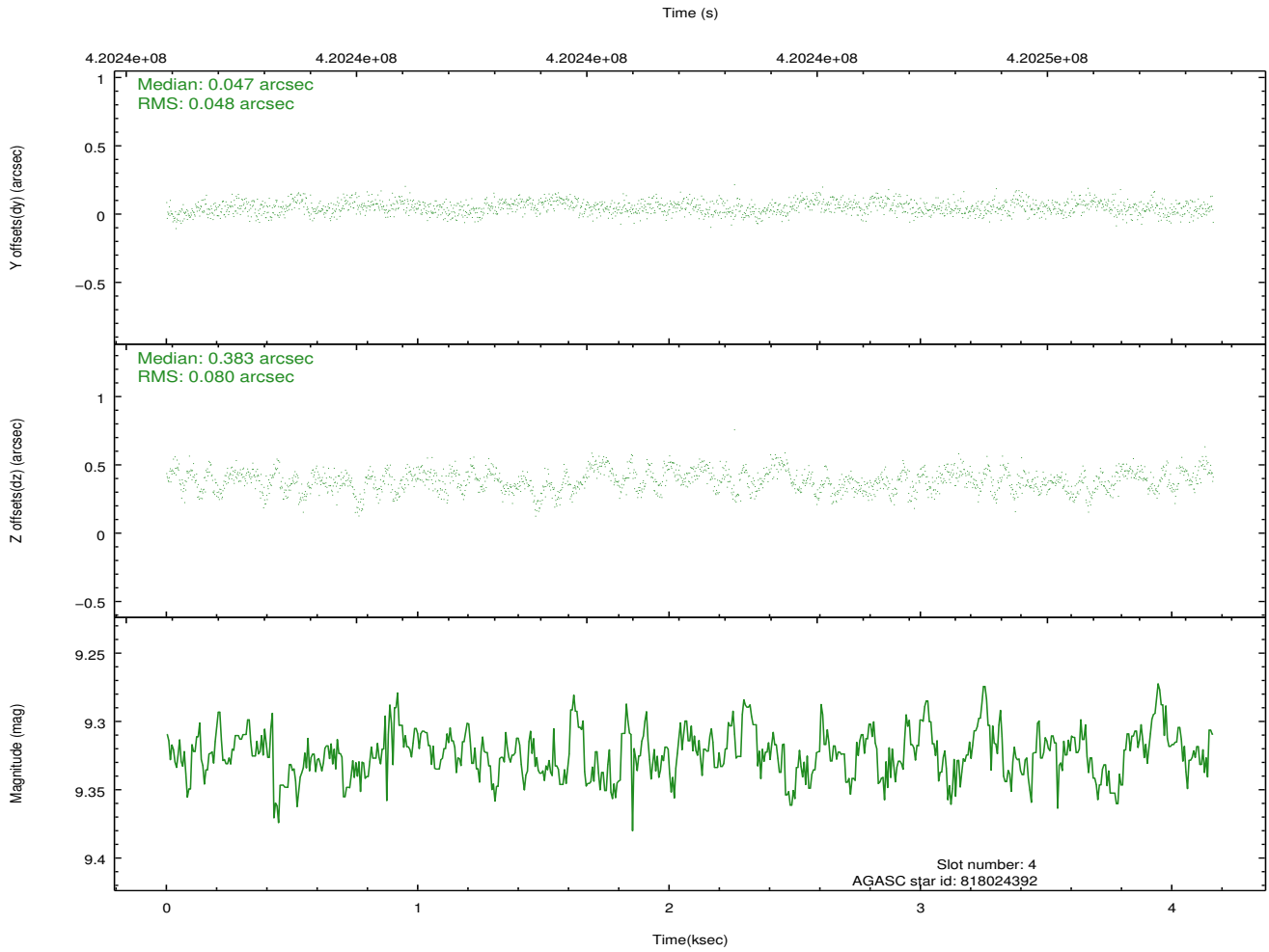
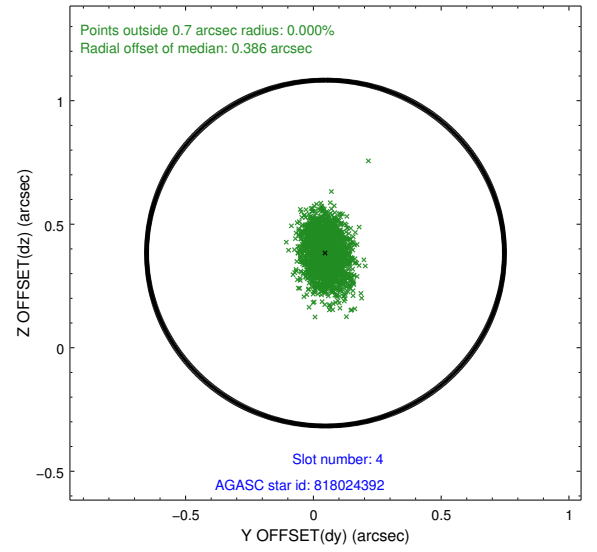
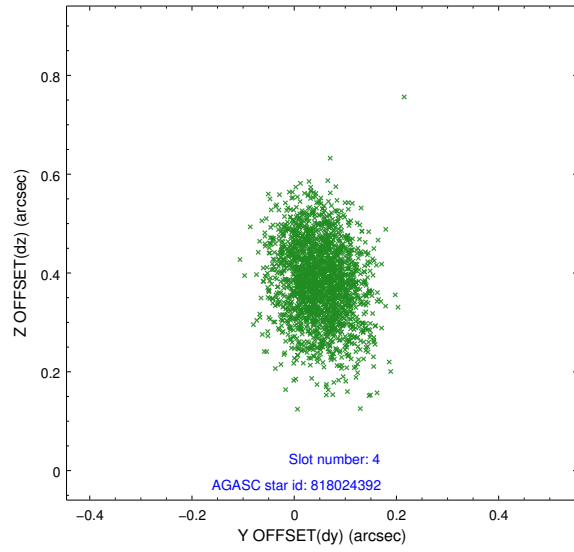
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.01	1016	-0.100	-0.066	0.006	0.010	0.000000	0.000000	-770.19	-1737.19
1	FID	ACIS-S-4	7.09	1016	0.158	0.032	0.006	0.010	0.000000	0.000000	2142.66	169.84
2	FID	ACIS-S-6	7.23	1016	-0.085	0.042	0.007	0.011	0.000000	0.000000	393.72	808.95
3	GUIDE	818020736	9.17	2029	0.061	-0.089	0.084	0.137	258.330874	-20.587921	-400.93	668.83
4	GUIDE	818024392	9.32	2032	0.047	0.383	0.098	0.163	259.215766	-20.604237	-365.37	-2312.73
5	GUIDE	818025512	9.34	2018	0.002	-0.060	0.086	0.142	258.366840	-19.927722	1978.31	627.81
6	GUIDE	818547776	7.03	2032	0.067	0.148	0.062	0.097	258.721964	-20.969509	-1729.22	-691.87
7	GUIDE	817896840	7.79	2029	-0.180	-0.389	0.066	0.111	257.841617	-20.424711	125.73	2338.00

2.4 Star Slots

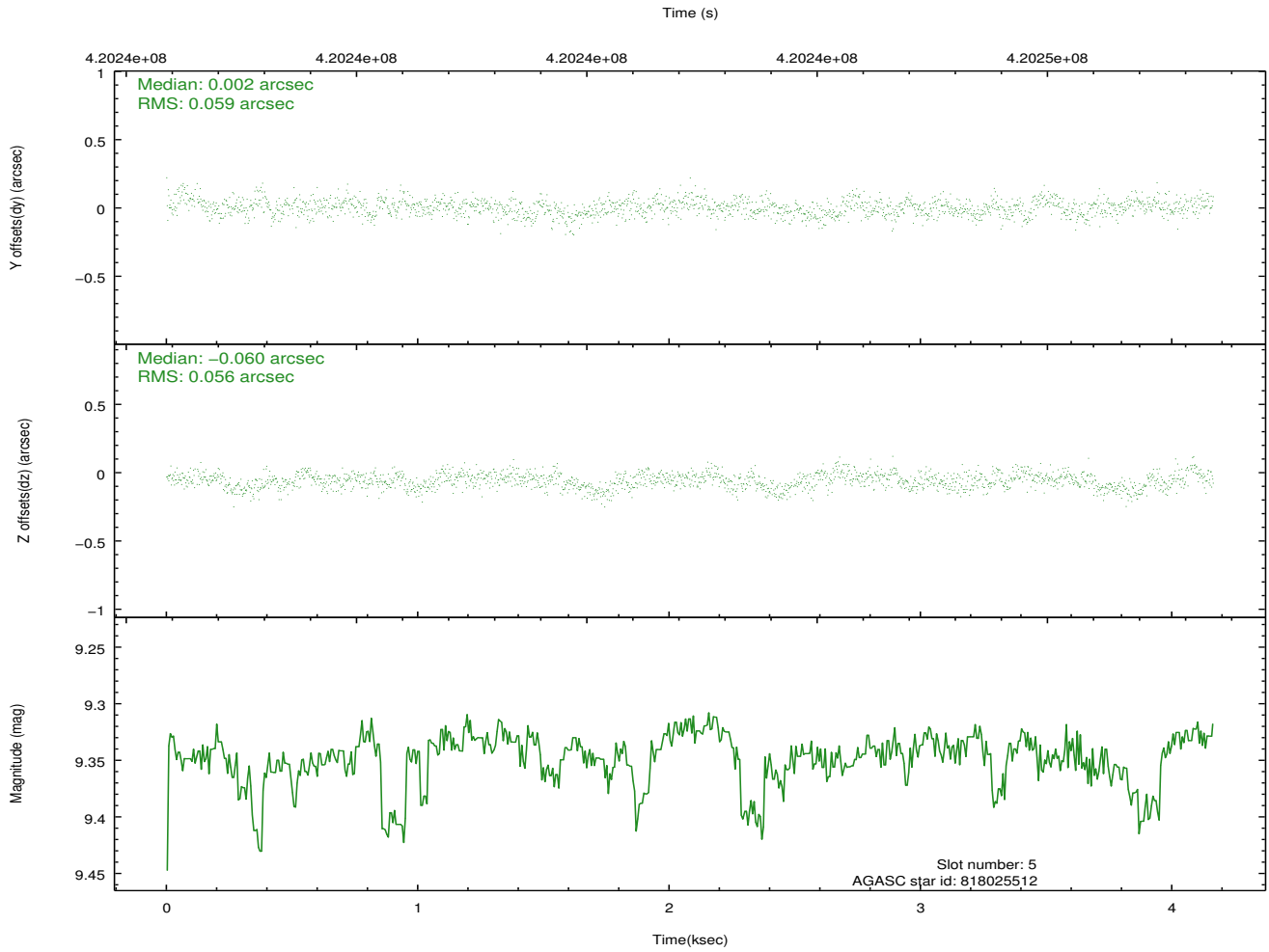
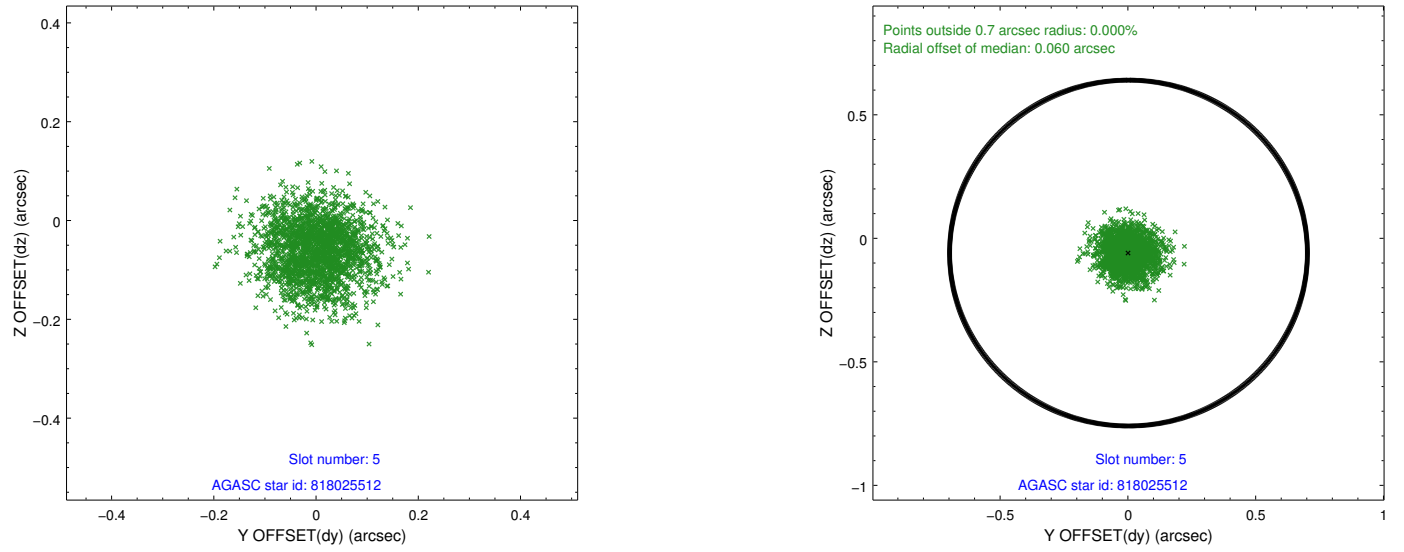
2.4.1 Slot 3



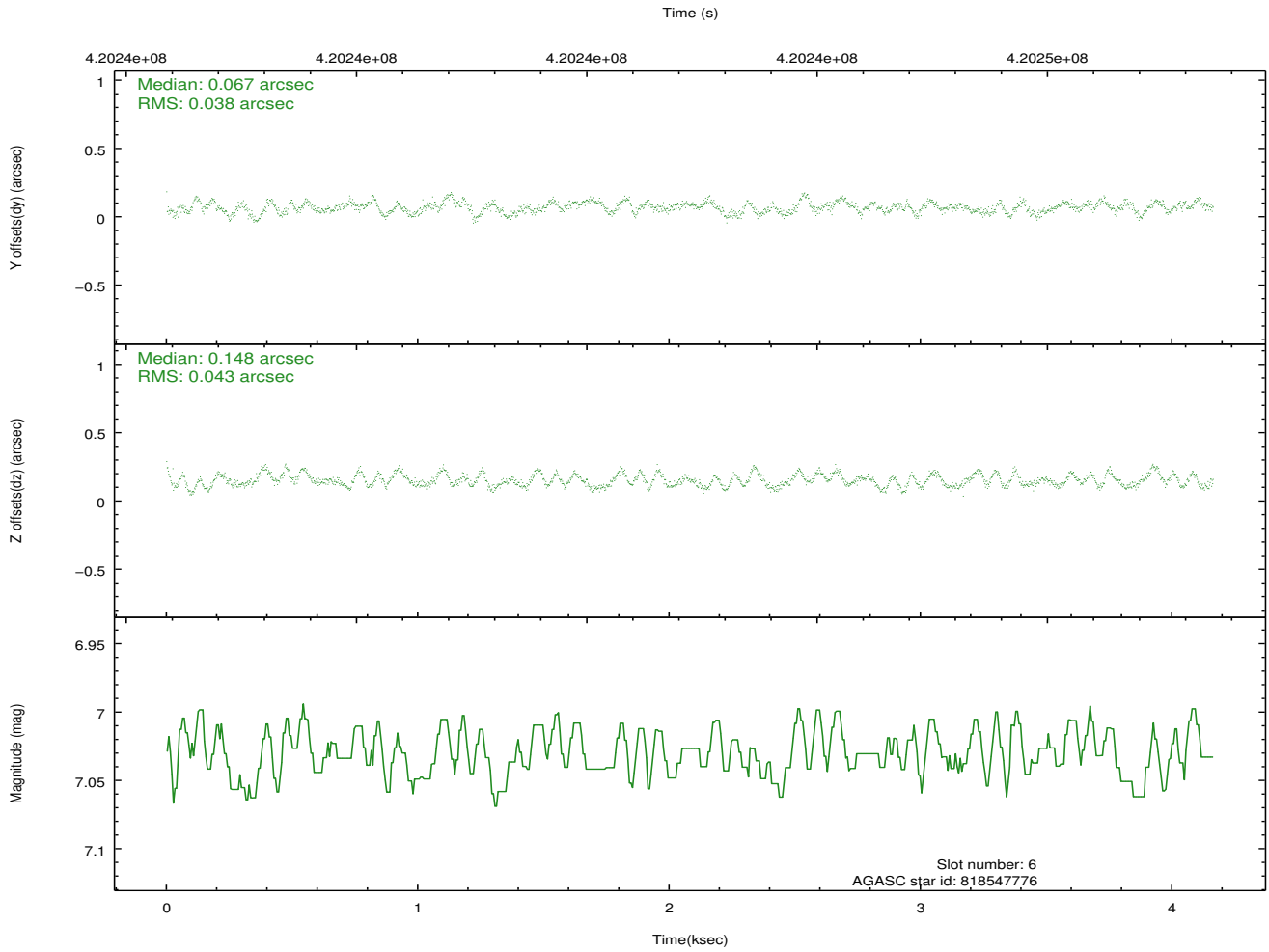
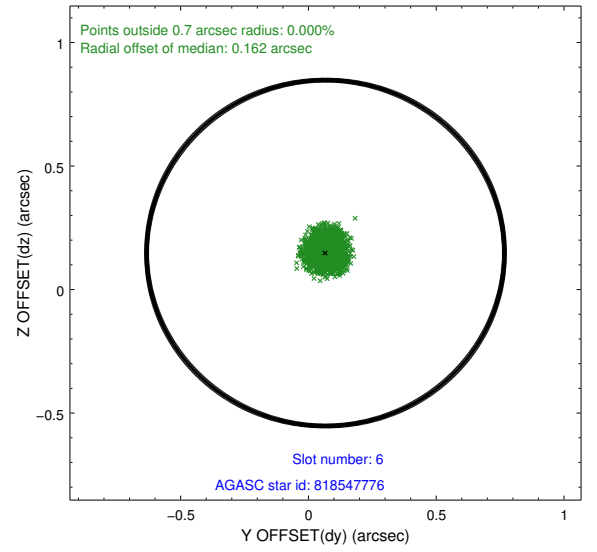
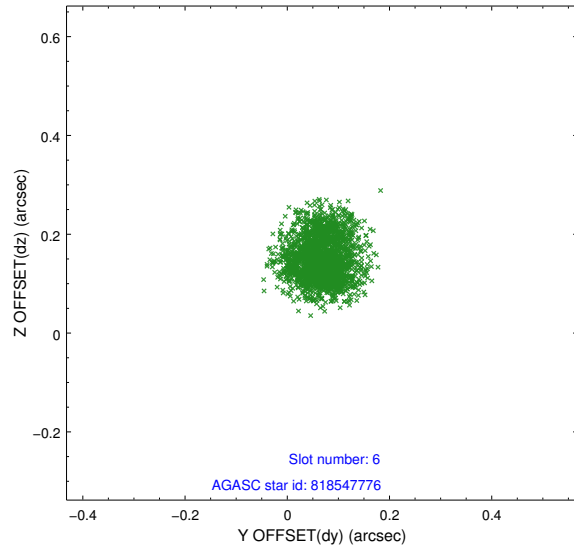
2.4.2 Slot 4



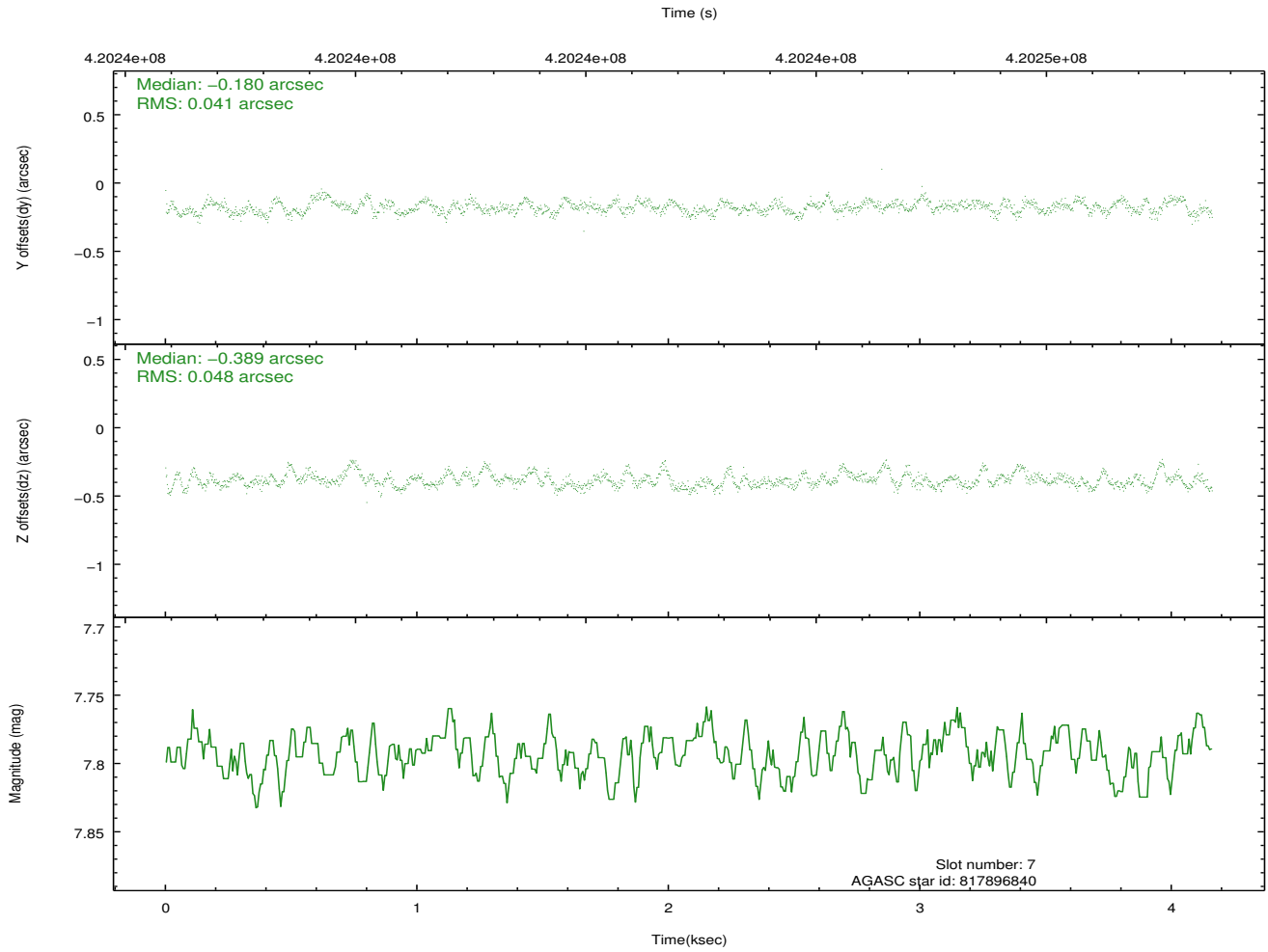
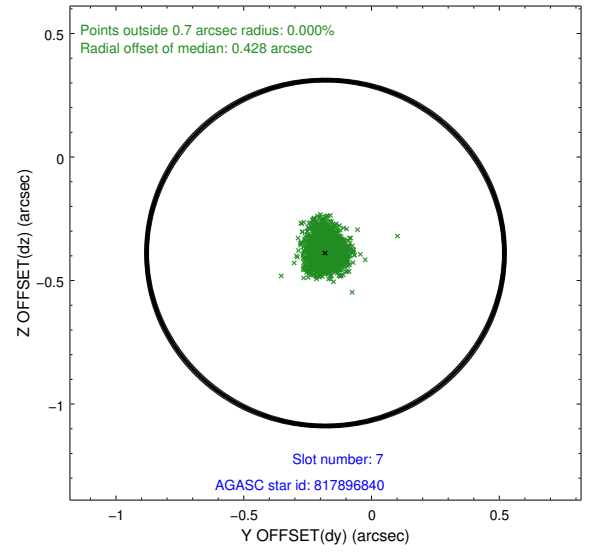
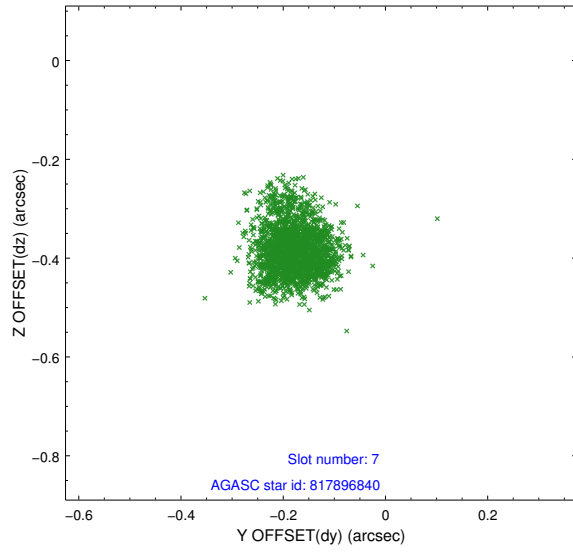
2.4.3 Slot 5



2.4.4 Slot 6

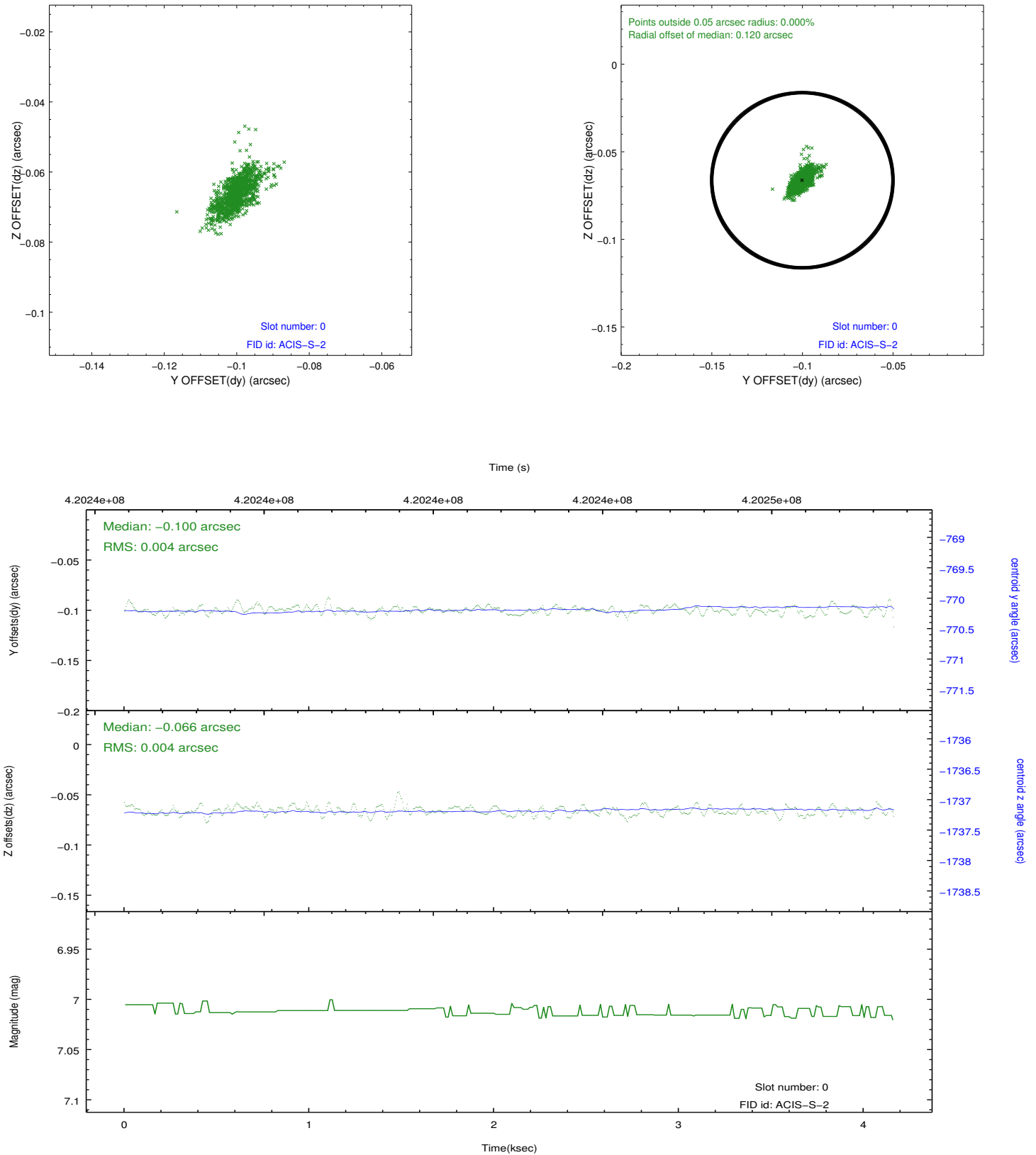


2.4.5 Slot 7

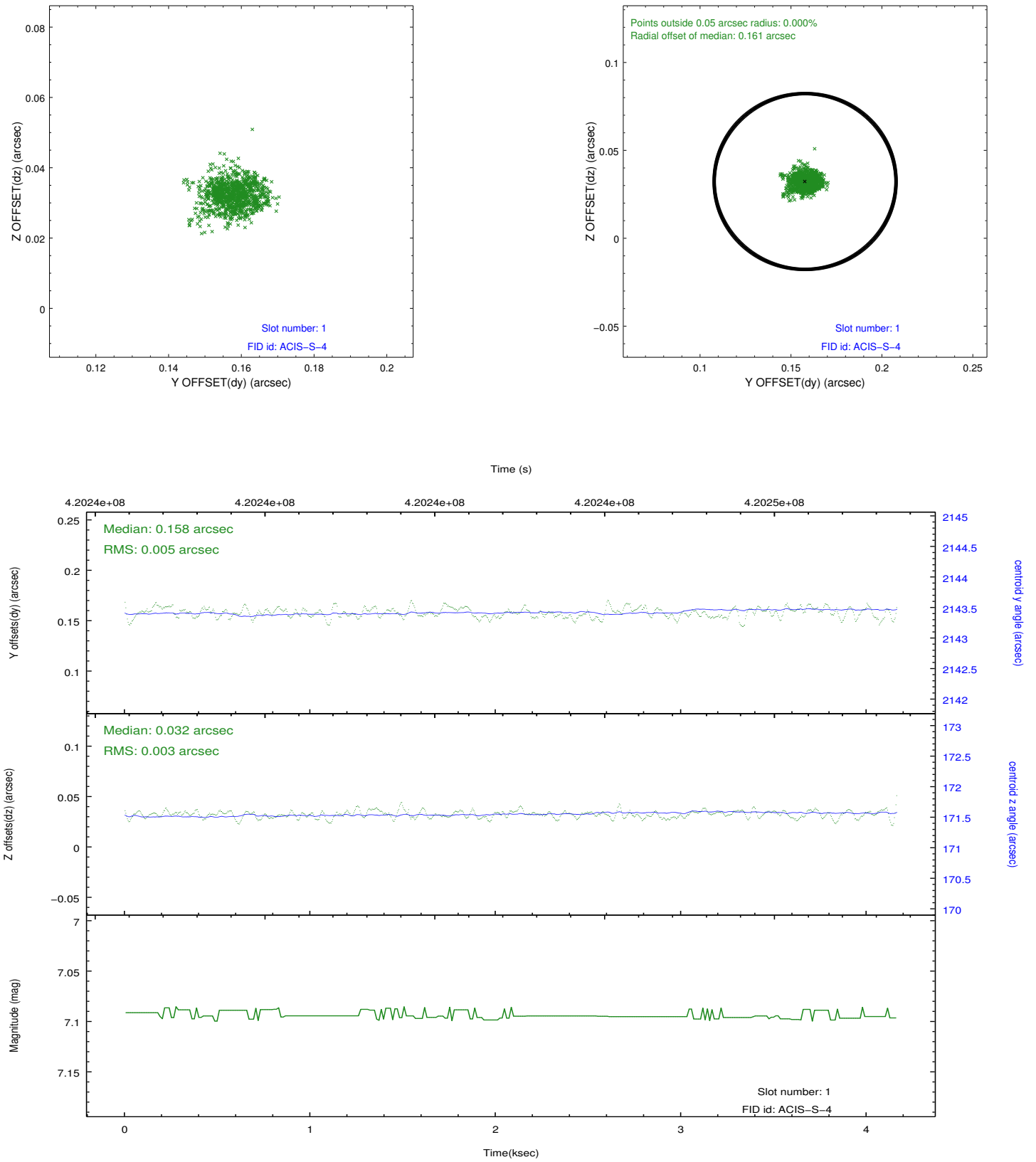


2.5 FID Slots

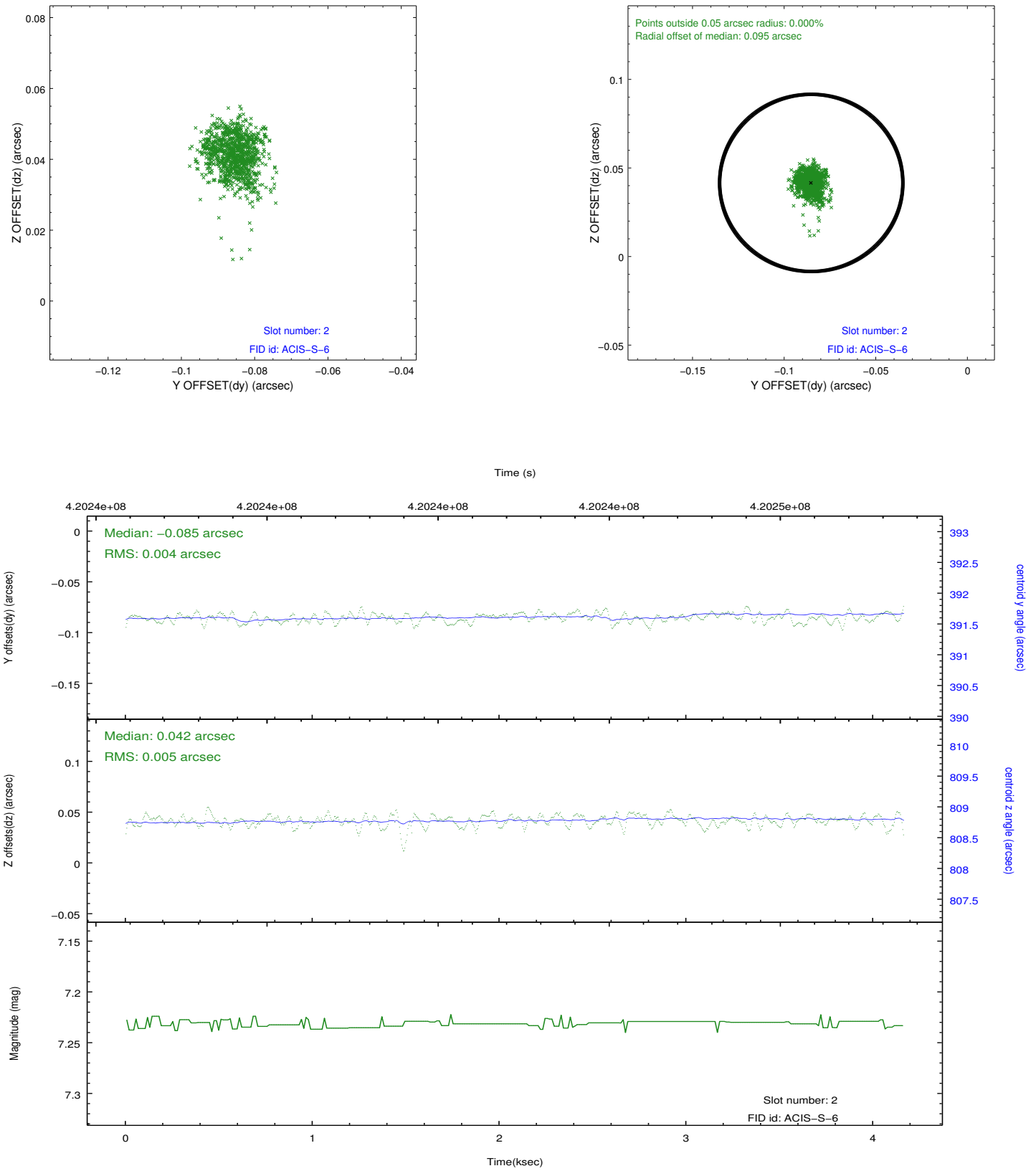
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.0095997610092

A.2 Comments

The data for this observation have been processed using the 'EDSER' sub-pixel event-repositioning algorithm of Li et al. (2004, ApJ, 610, 1204). Small-scale features should become sharper for sources near the aim point. The improvement will be less noticeable for off-axis sources where the size of the point-spread function is comparable to or larger than the size of an ACIS pixel. To take full advantage of the improvement, images should be binned on spatial scales smaller than the size of an ACIS pixel. Note that, at present, the point-spread function has not been calibrated for data to which the EDSER algorithm has been applied. If dither was disabled for the observation, then the algorithm can introduce artificial aliasing effects on spatial scales smaller than a pixel. If you would prefer to use no sub-pixel adjustment or to apply a coordinate randomization, then use `acis_process_events` to reprocess the data with the parameter `pix_adj=NONE` or `RANDOMIZE`, respectively.