

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 1112 - L2 Version 4
Chandra X-Ray Center

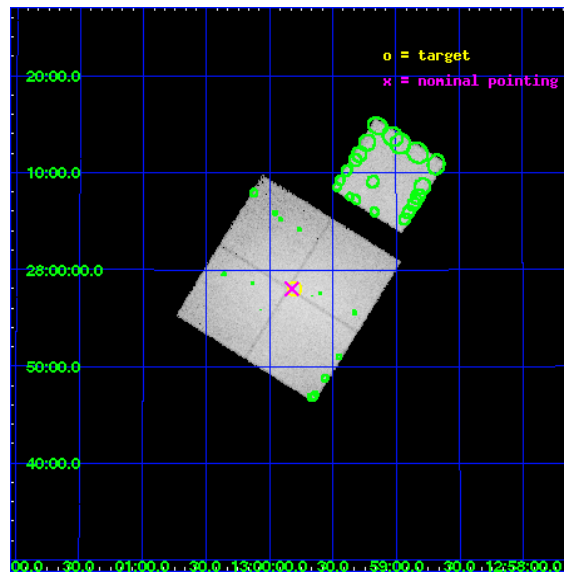
L2 Processing Date : Nov 21 2009

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1 Front

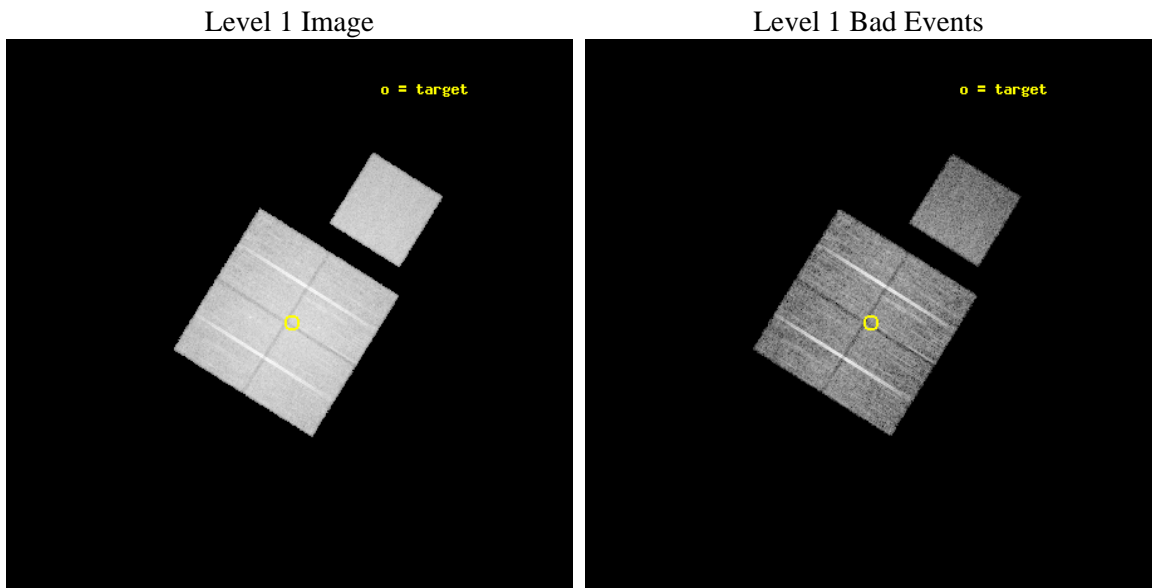
seq_num	880062	Sequence number
obs_id	1112	Observation id
title	 	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	COMA CLUSTER	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.95	Observer's specified target RA
dec_targ	27.966667	Observer's specified target Dec
ra_nom	194.95594677663	Nominal RA
dec_nom	27.967501413089	Nominal Dec
roll_nom	31.955704479186	Nominal Roll
revision	4	Processing version of data
ontime	9776.0000091046	Sum of GTIs [s]
livetime	9652.2104105888	Livetime [s]
ontime0	9776.0000091046	Sum of GTIs [s]
ontime1	9776.0000091046	Sum of GTIs [s]
ontime2	9776.0000091046	Sum of GTIs [s]
ontime3	9776.0000091046	Sum of GTIs [s]
ontime7	9776.0000091046	Sum of GTIs [s]
l2events	277021	Number of level 2 events



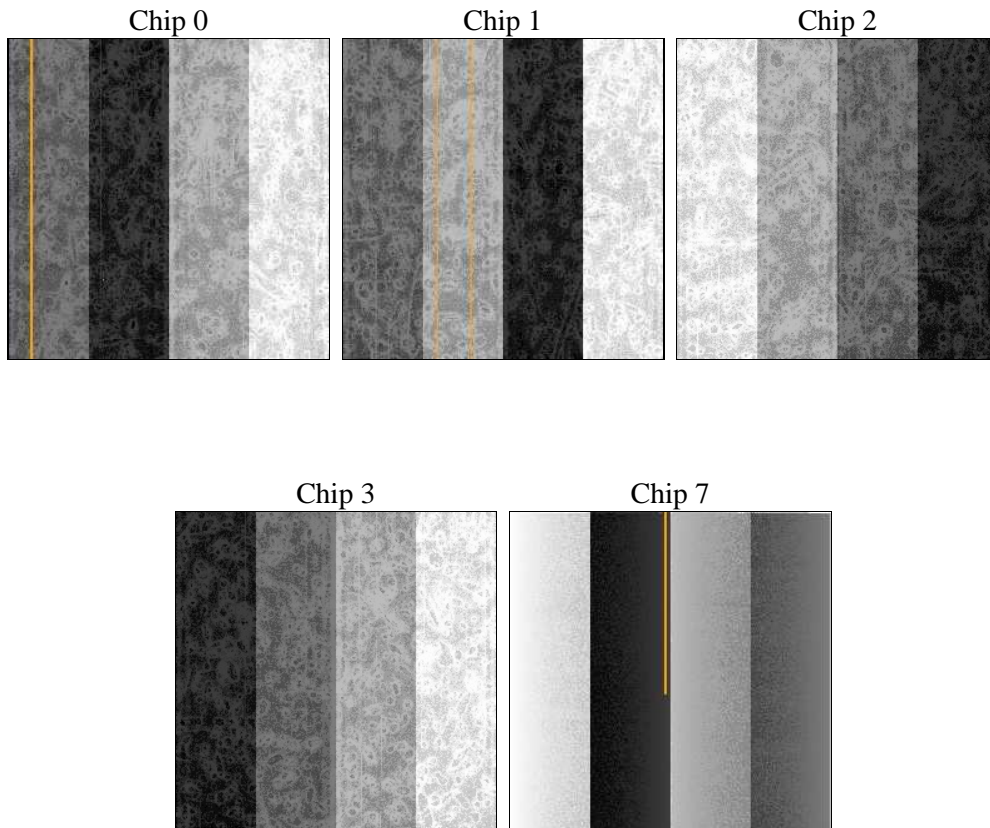
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10000.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	9776.0000091046	Sum of GTIs [s]
caldbver	4.1.4	 	ontime0	9776.0000091046	Sum of GTIs [s]
date	2009-11-21T10:19:32	Date and time of file creation	ontime1	9776.0000091046	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	9776.0000091046	Sum of GTIs [s]
			ontime3	9776.0000091046	Sum of GTIs [s]
			ontime7	9776.0000091046	Sum of GTIs [s]
			ll events	665395	Number of level 1 events

2.1.4 Events

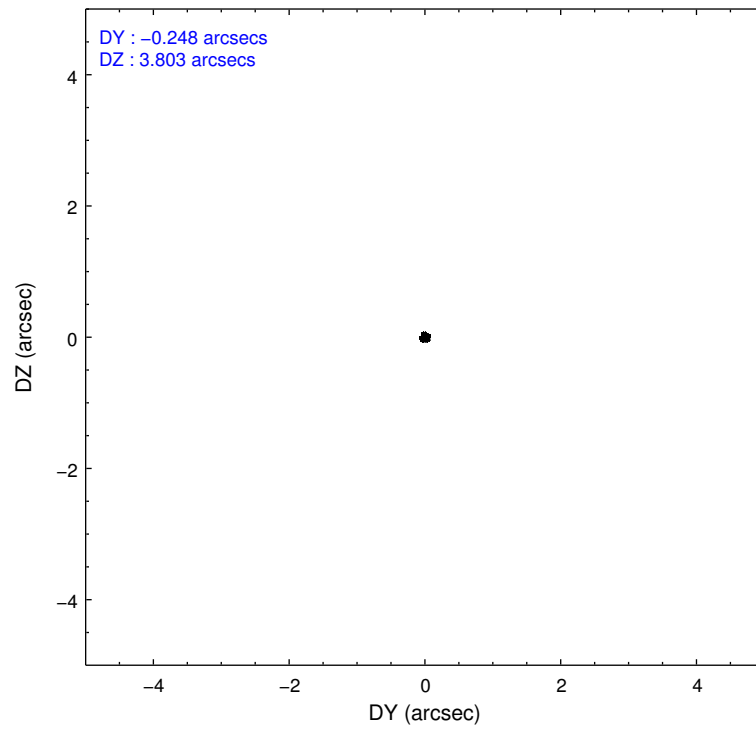
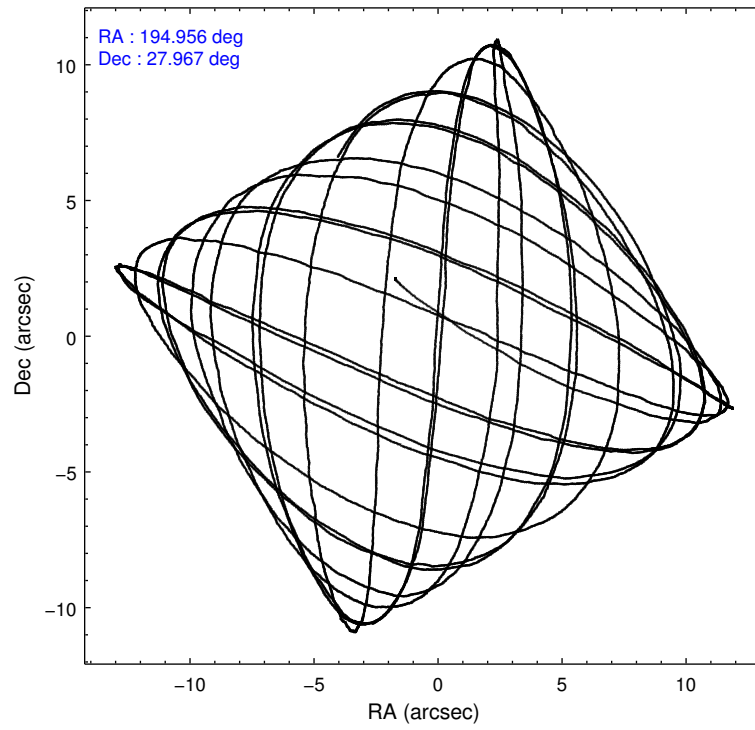
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	132235	146243	128850	145380	112687
rejected events	75861	77322	86520	83505	58527
rejected %	57%	52%	67%	57%	51%

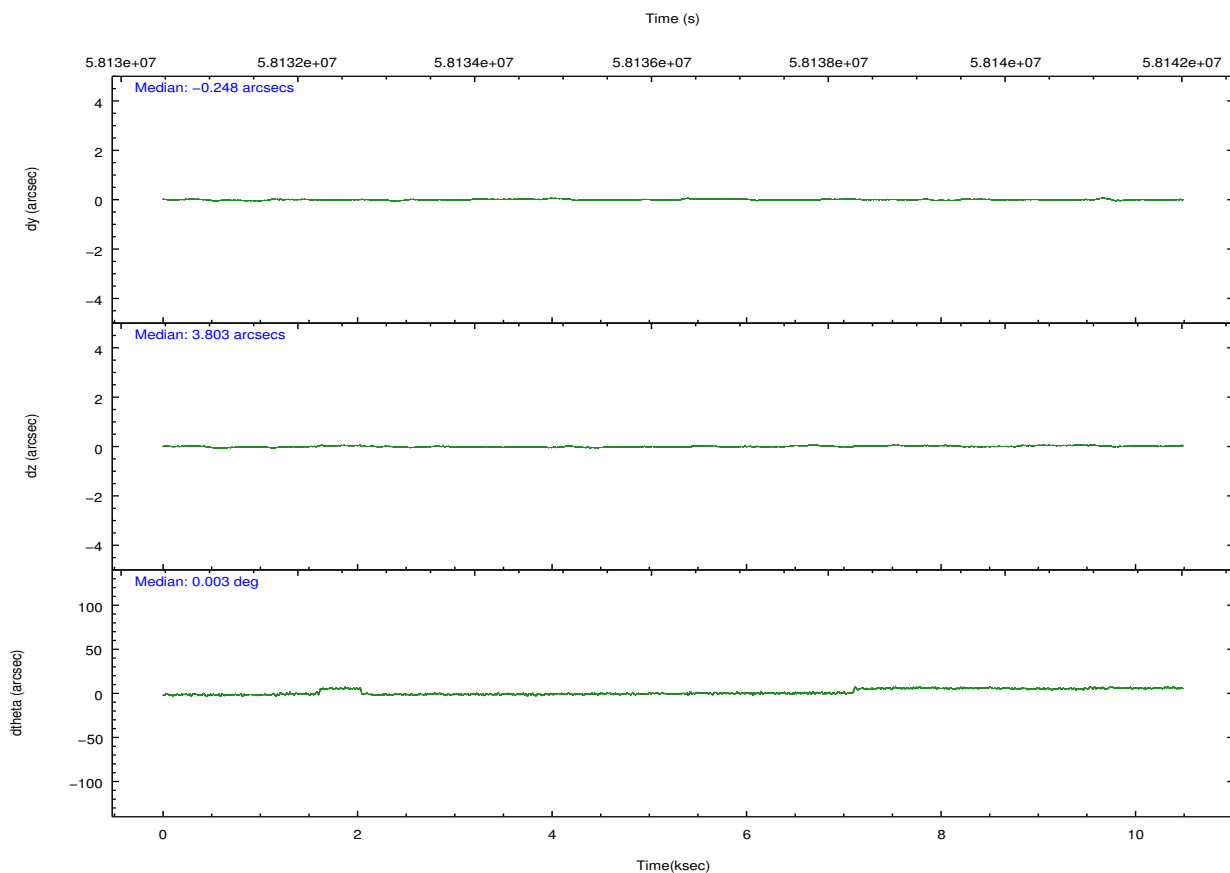
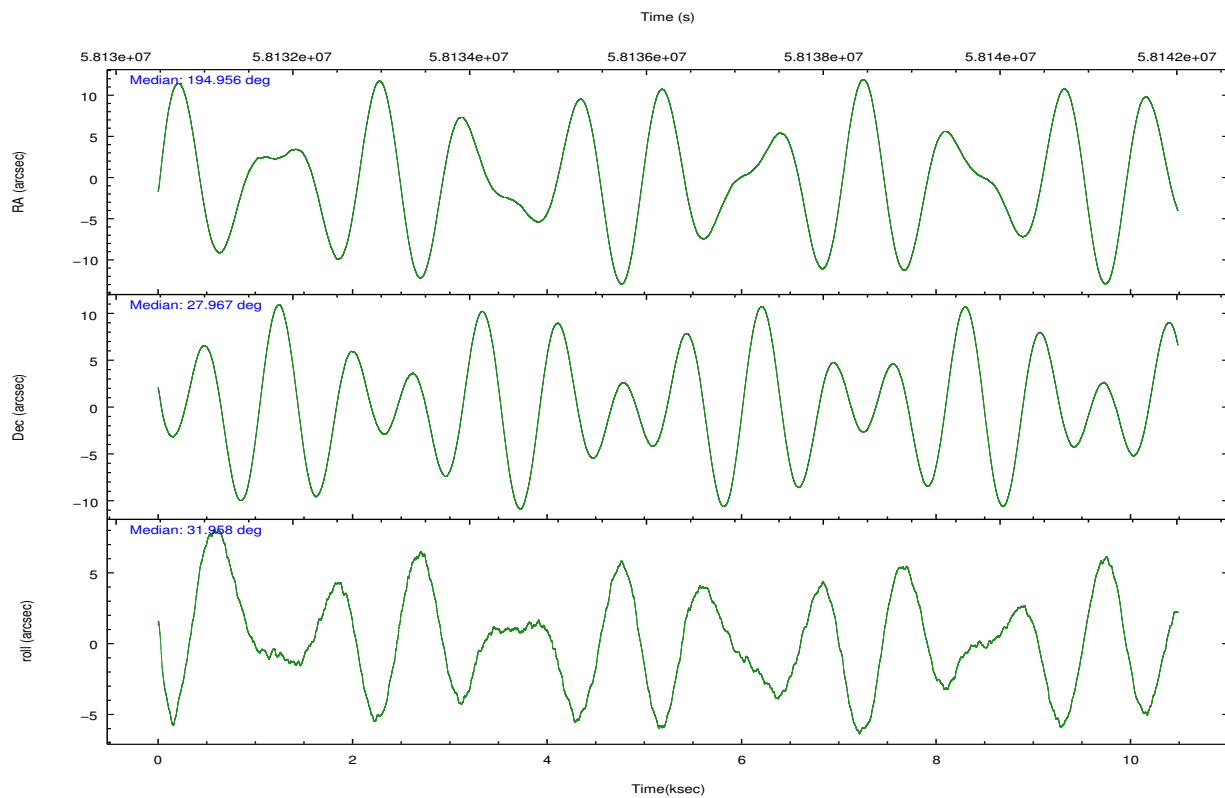
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	34919	44001	23208	37307	7721
	26%	30%	18%	25%	6%
grade 1 events	117	156	70	119	54
	0%	0%	0%	0%	0%
grade 2 events	14533	16466	13507	17164	12464
	10%	11%	10%	11%	11%
grade 3 events	1694	2133	1245	1770	4024
	1%	1%	0%	1%	3%
grade 4 events	1686	2034	1171	1762	3723
	1%	1%	0%	1%	3%
grade 5 events	1982	2011	1648	1948	6034
	1%	1%	1%	1%	5%
grade 6 events	3587	4331	3220	3917	26261
	2%	2%	2%	2%	23%
grade 7 events	73717	75111	84781	81393	52406
	55%	51%	65%	55%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-01237	ACIS-01237	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
Pointing RA	194.940717	194.9559467766332	Subarray requested	NONE	NONE
Pointing Dec	27.943166	27.967501413089	Alternating exposures requested	N	N
Pointing Roll	31.754164	31.95570447918644	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-234.592463	-234.5931605814527			
SIM translation stage offset (mm)	1	1.000707578522992			
Observation start time	58131487.184000	58130821.231657			
Observation start date	1999-11-04T19:37:03	1999-11-04T19:27:01			
Observation end time	58141487.184000	58141621.144547			
Observation end date	1999-11-04T22:23:43	1999-11-04T22:27:01			
Read mode	TIMED	TIMED			

2.3 Aspect



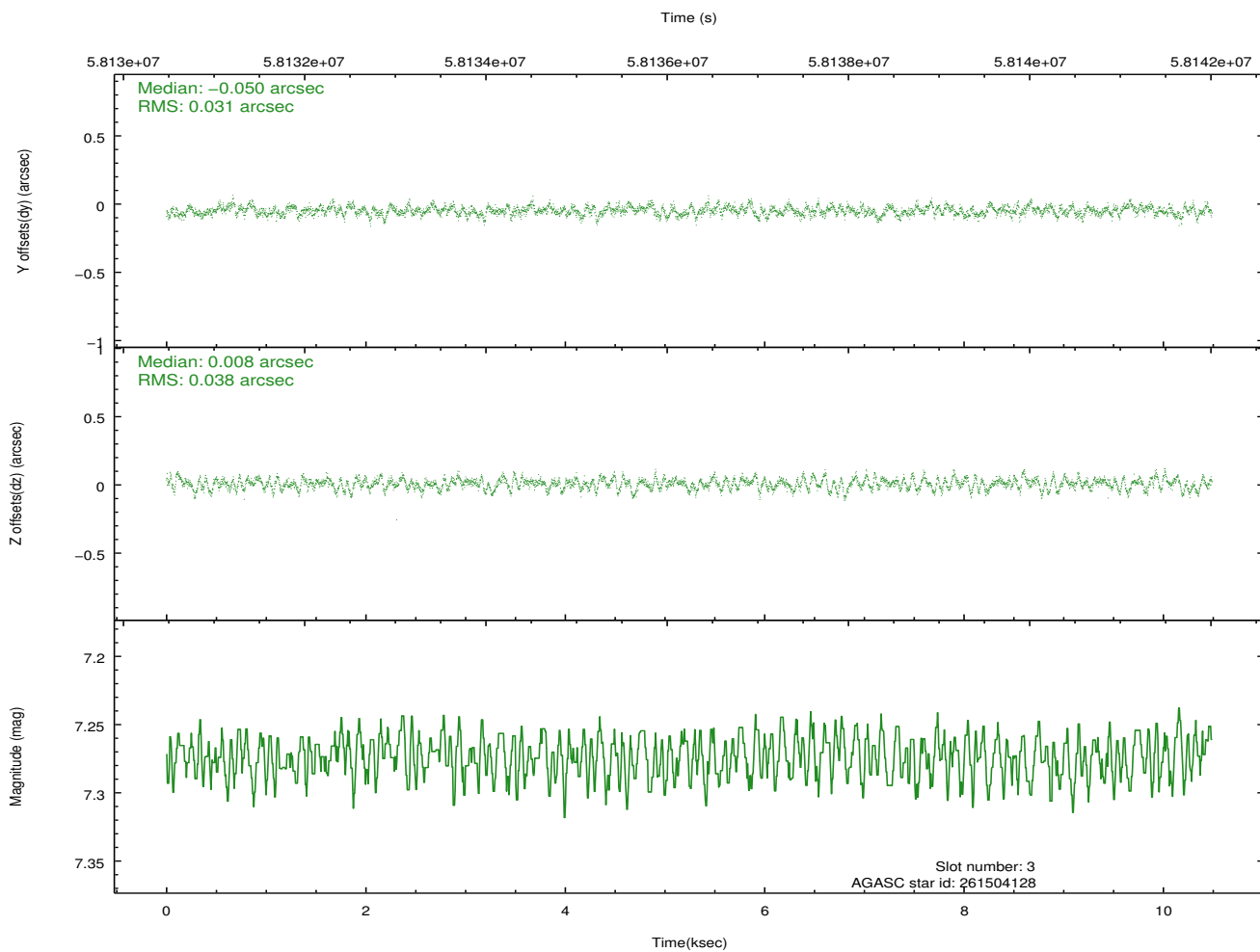
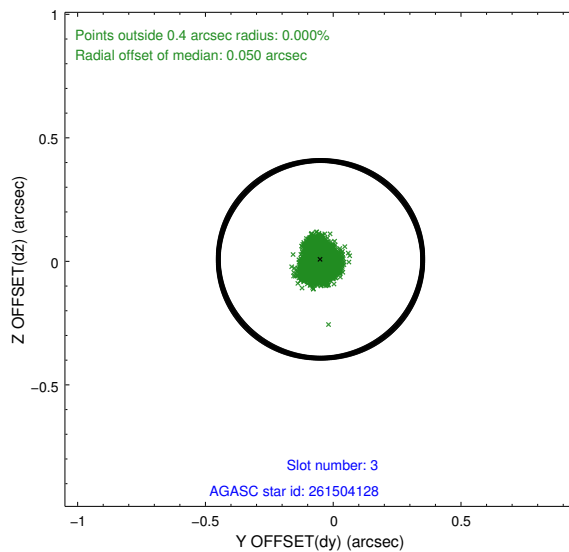
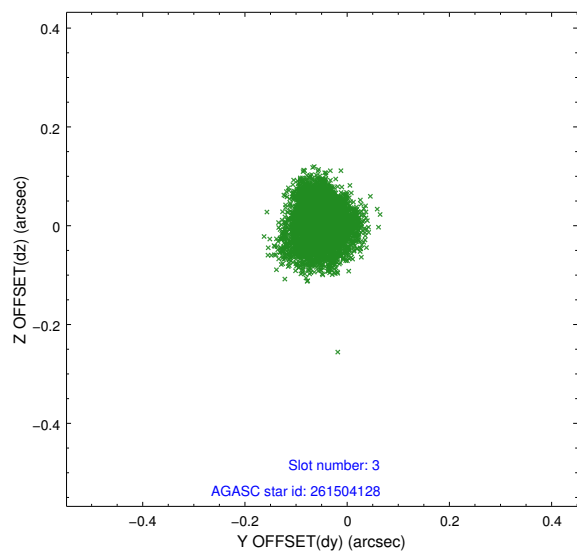


Slot Statistics

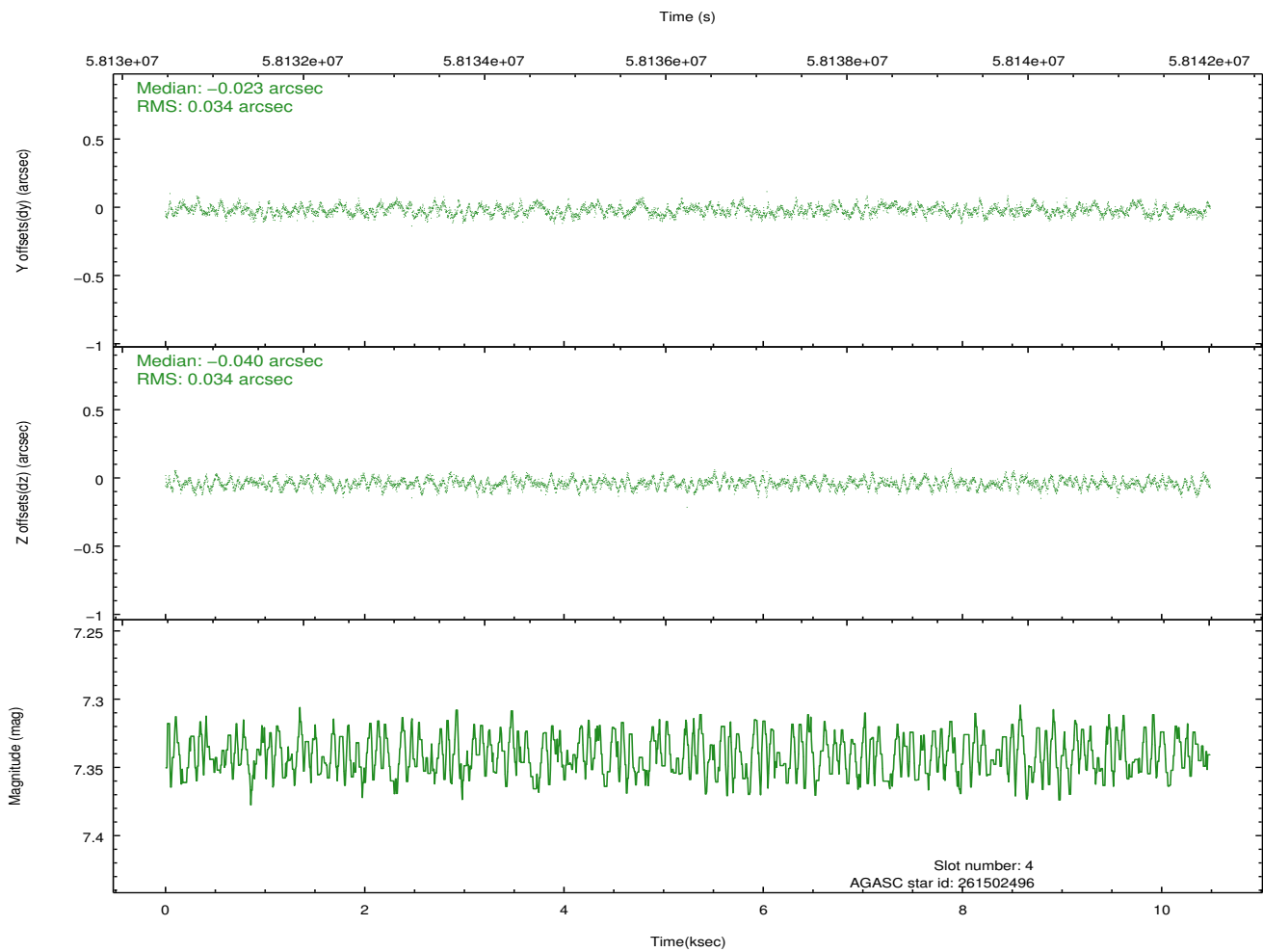
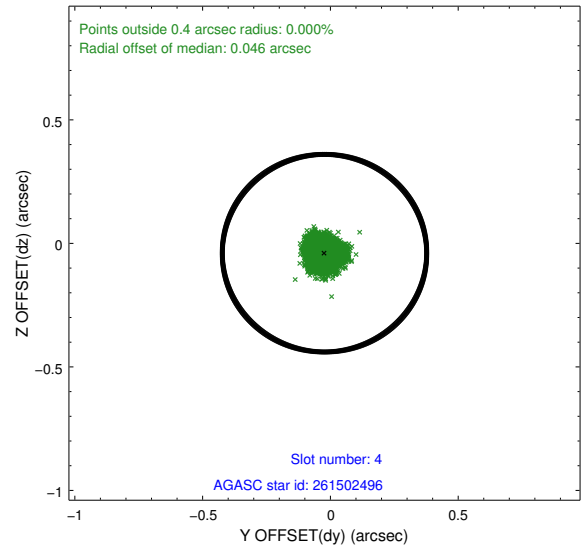
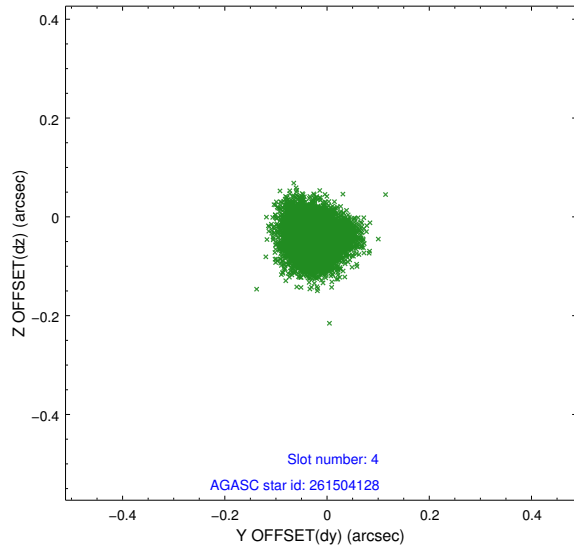
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.20	5116	-0.022	0.051	0.025	0.059	0.000000	0.000000	-754.07	-812.81
1	FID	ACIS-I-4	7.24	5114	0.111	0.010	0.016	0.031	0.000000	0.000000	2160.23	1092.94
2	FID	ACIS-I-5	7.23	5116	-0.191	0.009	0.024	0.040	0.000000	0.000000	-1807.72	1091.51
3	GUIDE	261504128	7.27	5115	-0.050	0.008	0.052	0.085	194.640935	28.319570	-93.99	1653.37
4	GUIDE	261502496	7.34	5117	-0.023	-0.040	0.053	0.079	194.887297	28.065668	87.87	464.77
5	GUIDE	261498392	8.30	5116	-0.014	0.017	0.063	0.097	194.888587	28.238913	419.88	992.61
6	GUIDE	261492080	9.29	5116	-0.069	-0.027	0.087	0.136	194.976344	28.631585	1400.23	2048.40
7	GUIDE	261505232	9.78	5112	0.155	0.037	0.122	0.193	194.216553	27.802521	-2223.20	789.62

2.4 Star Slots

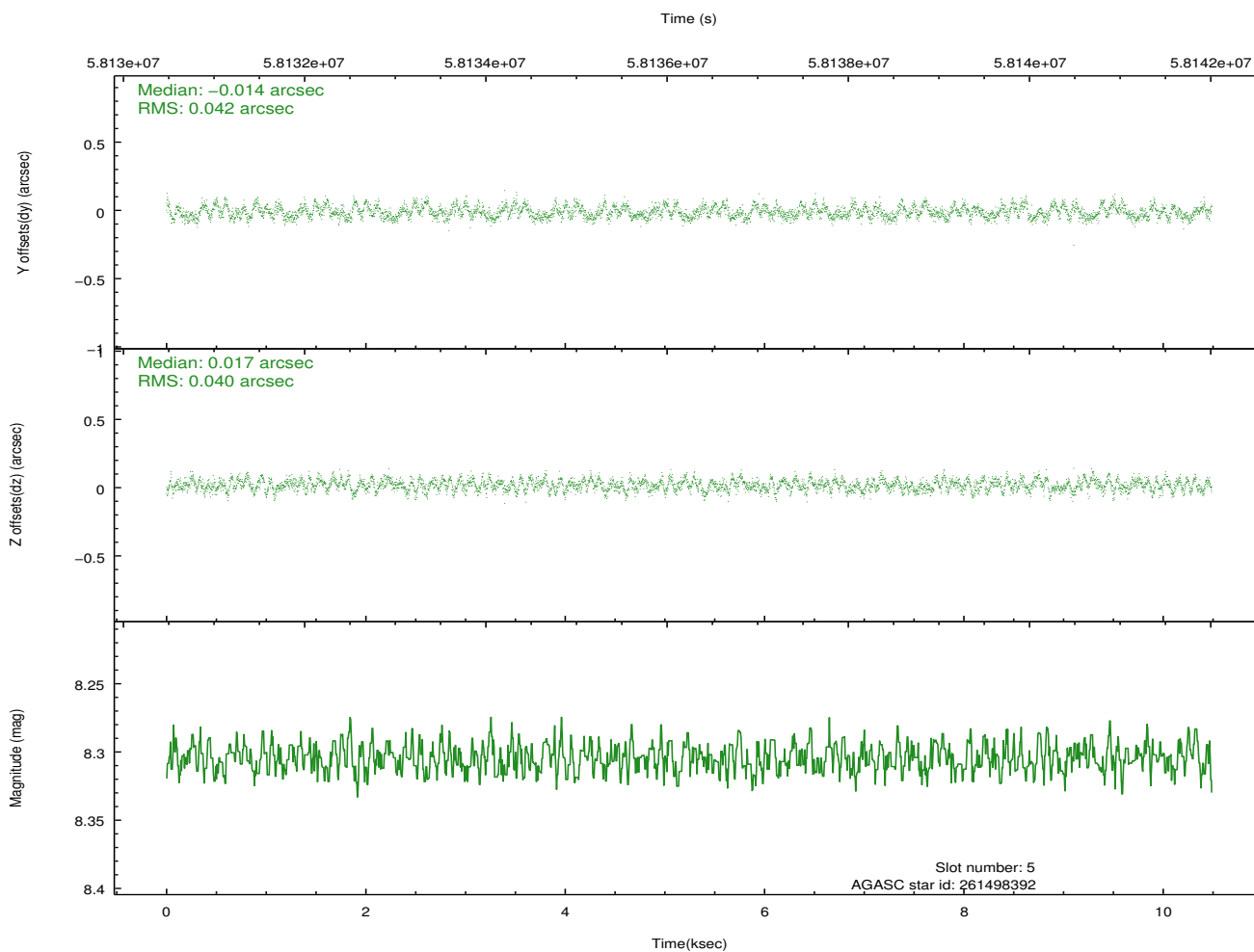
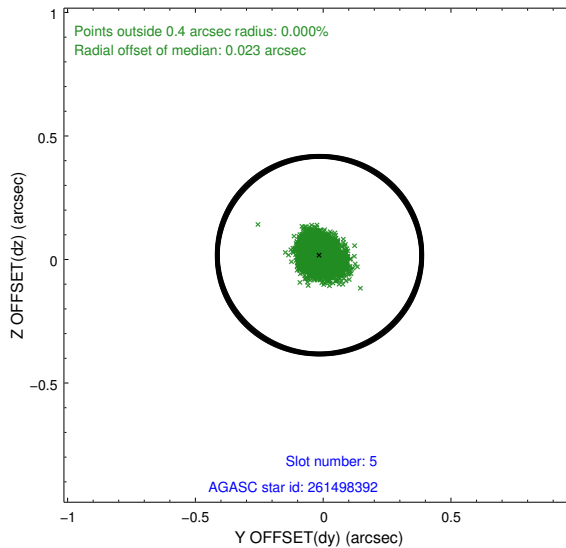
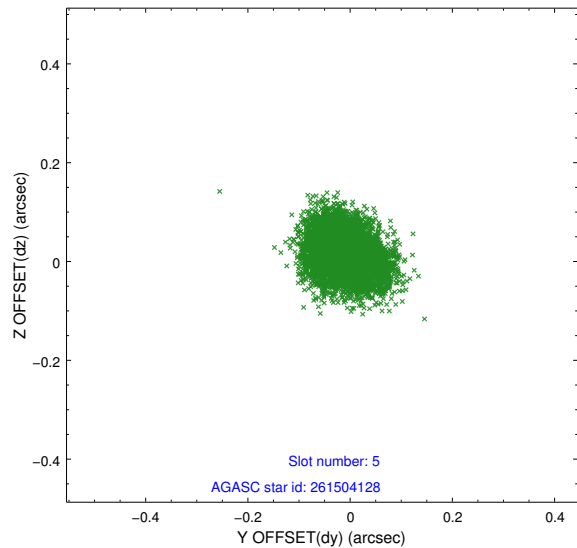
2.4.1 Slot 3



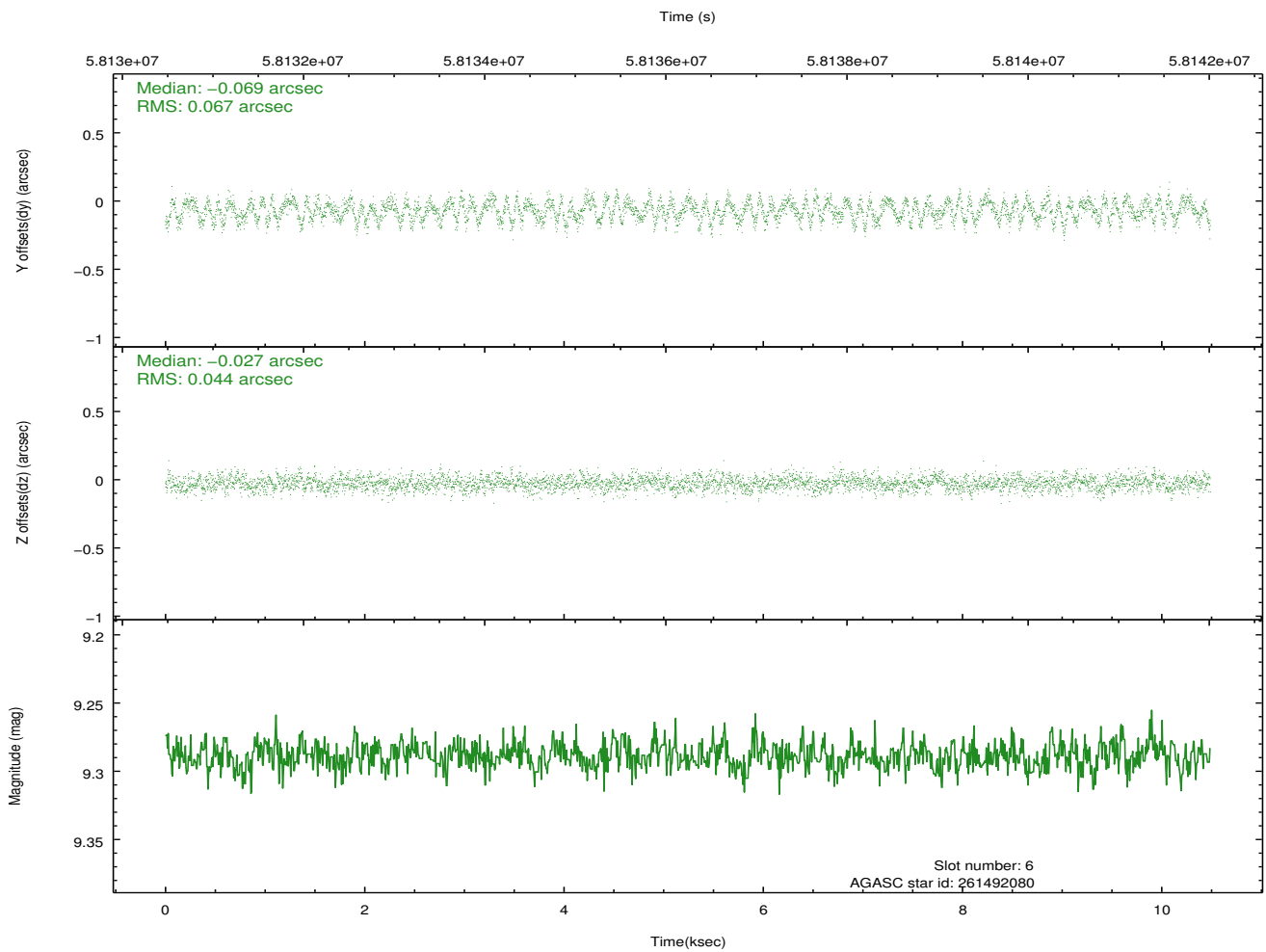
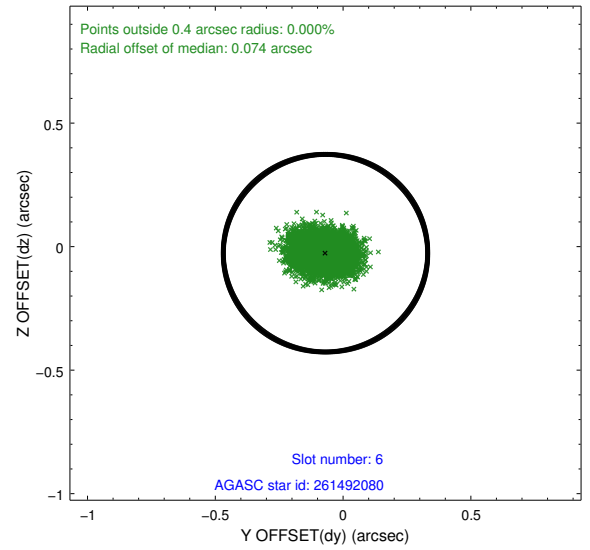
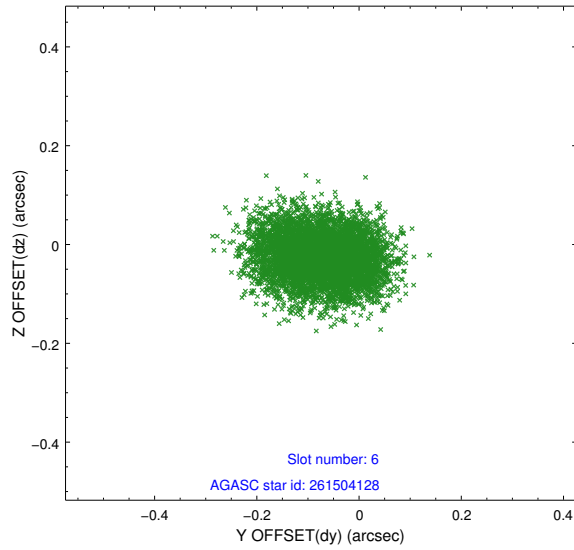
2.4.2 Slot 4



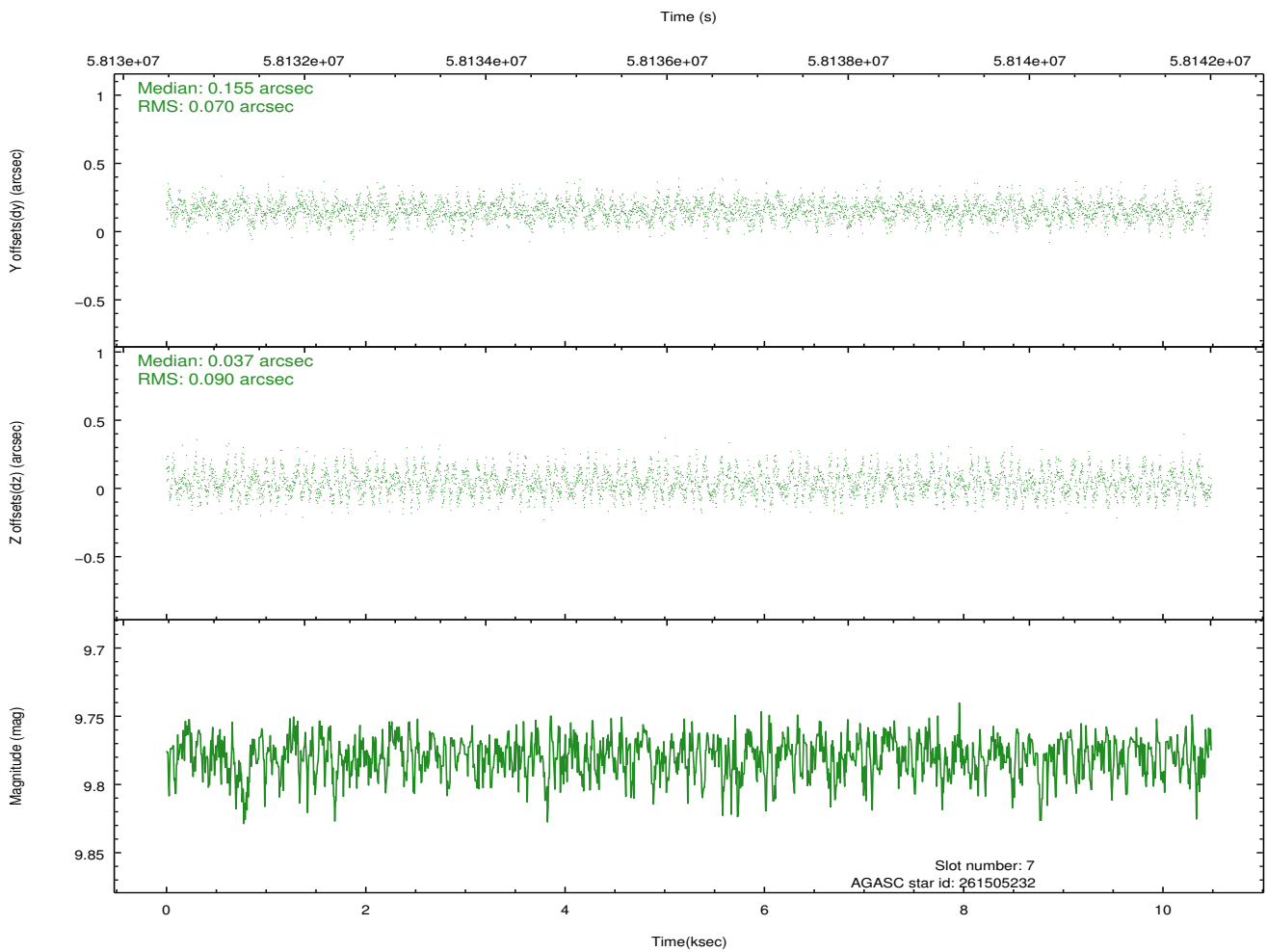
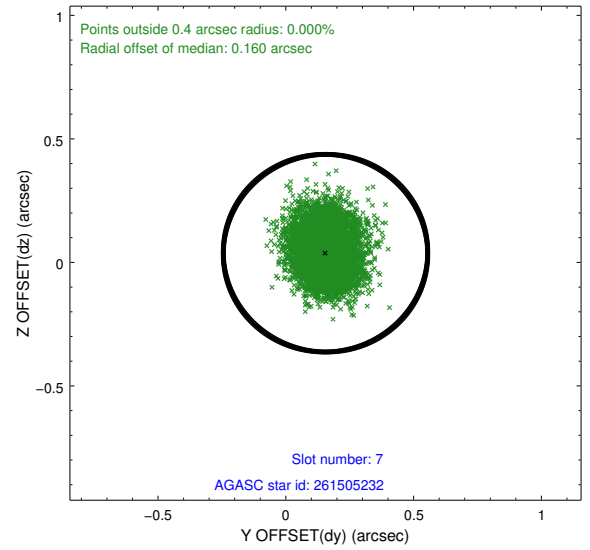
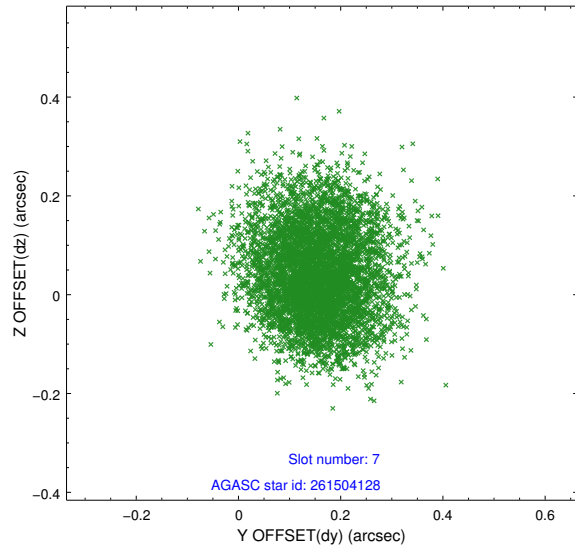
2.4.3 Slot 5



2.4.4 Slot 6

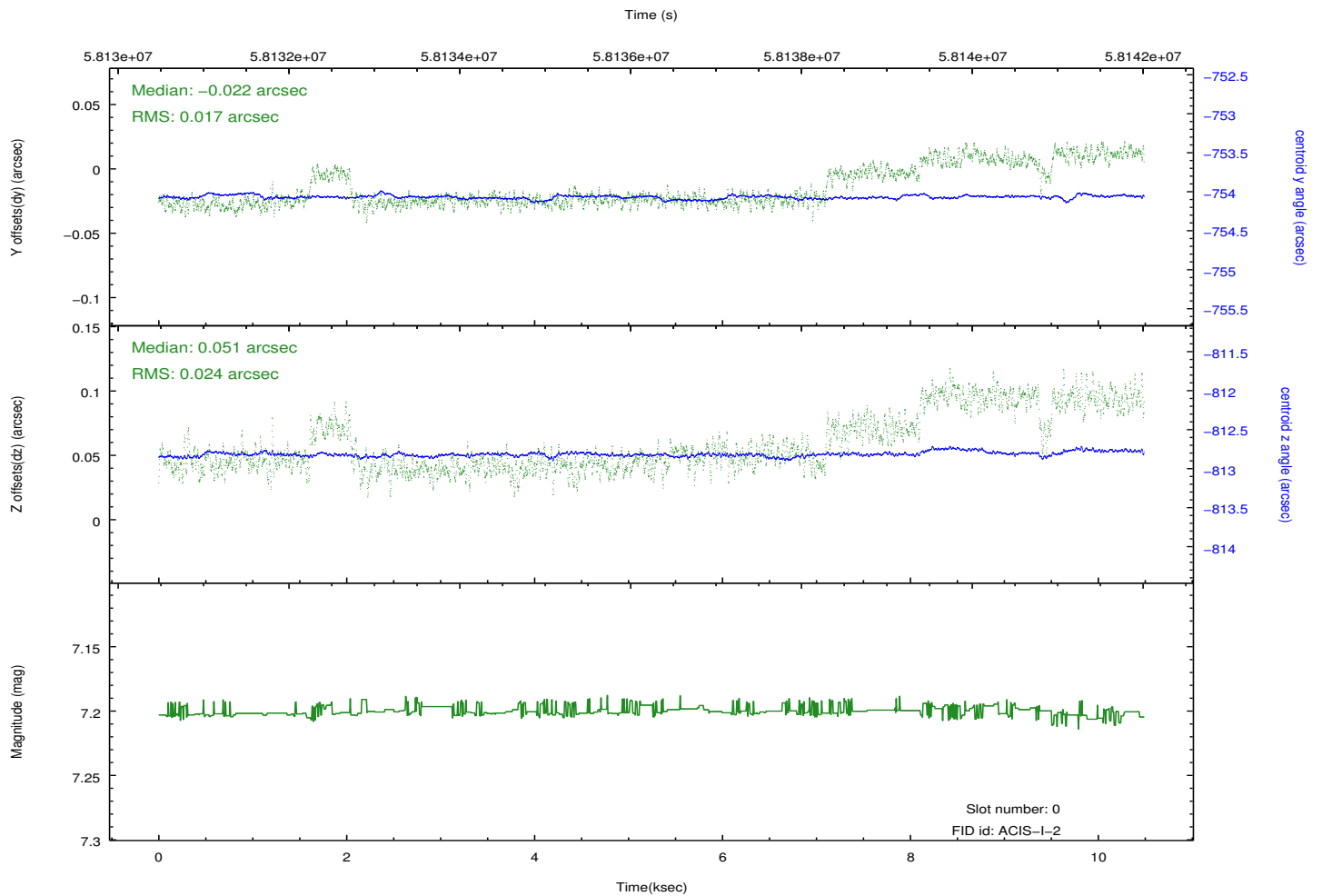
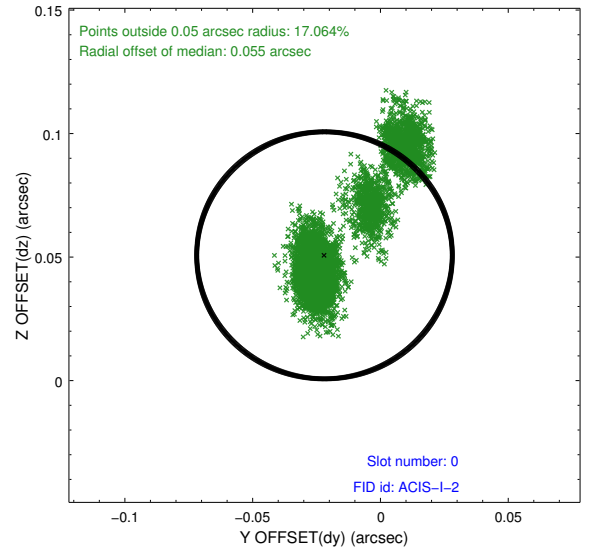
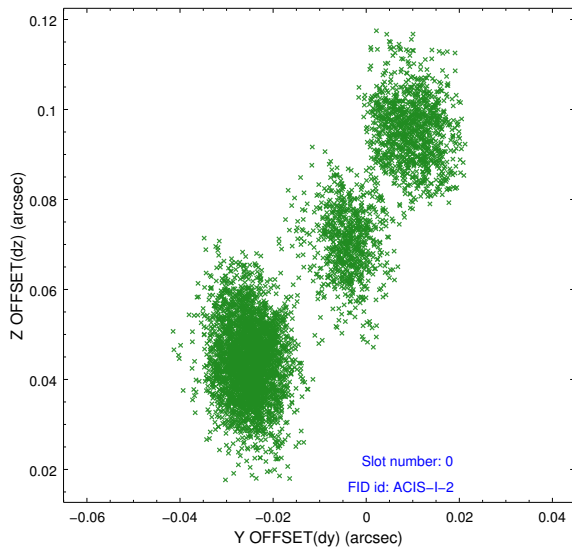


2.4.5 Slot 7

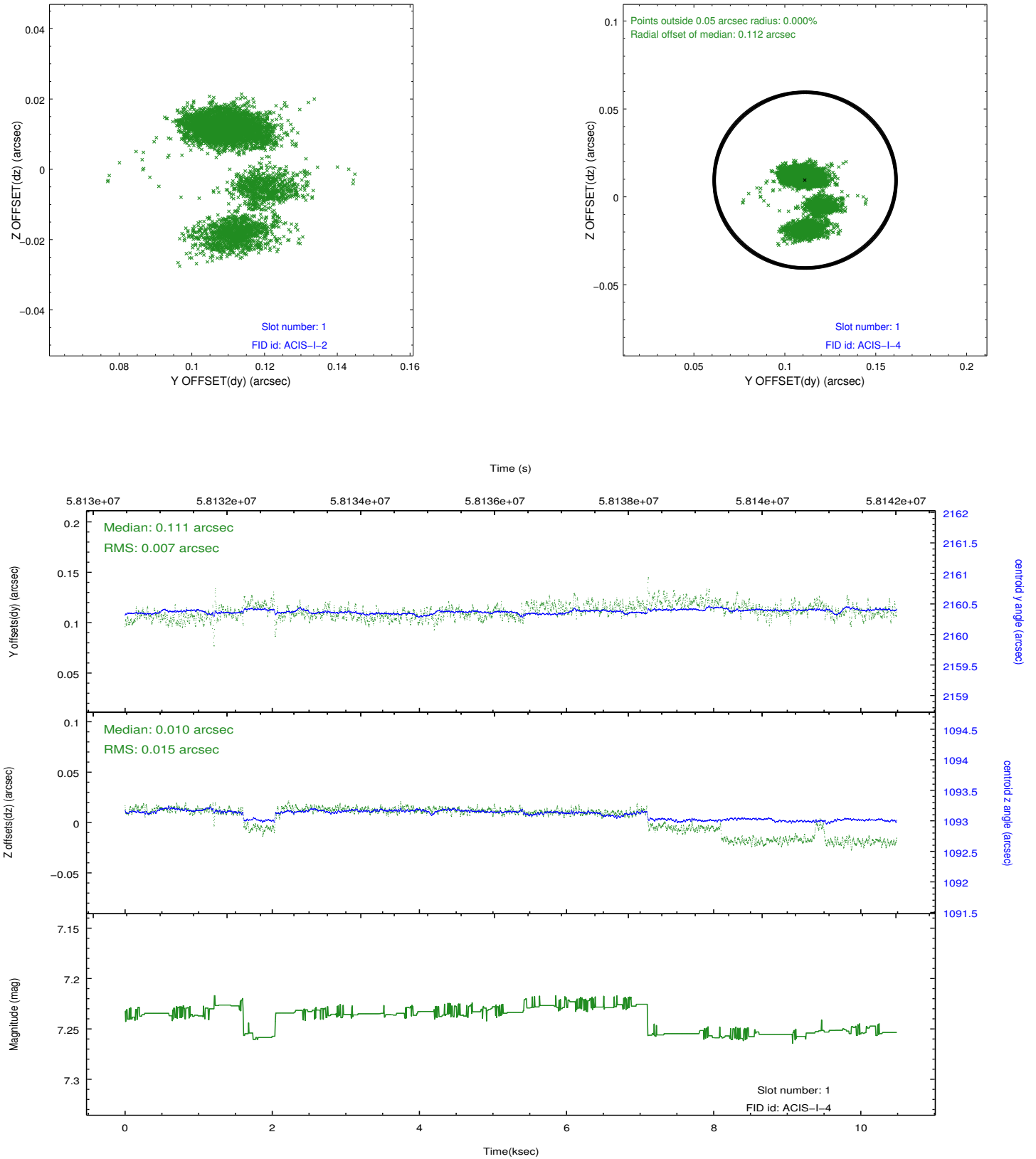


2.5 FID Slots

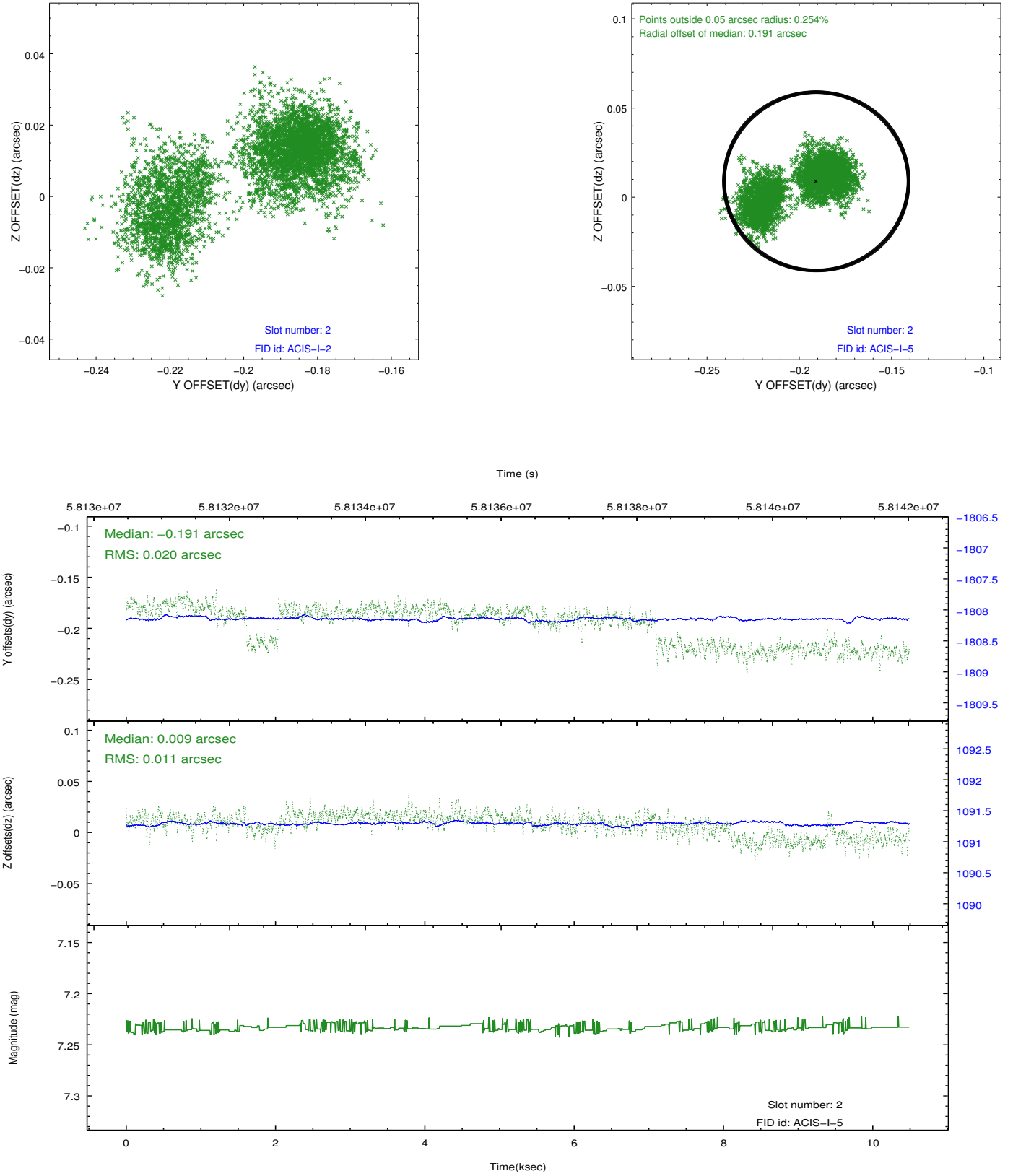
2.5.1 Slot 0



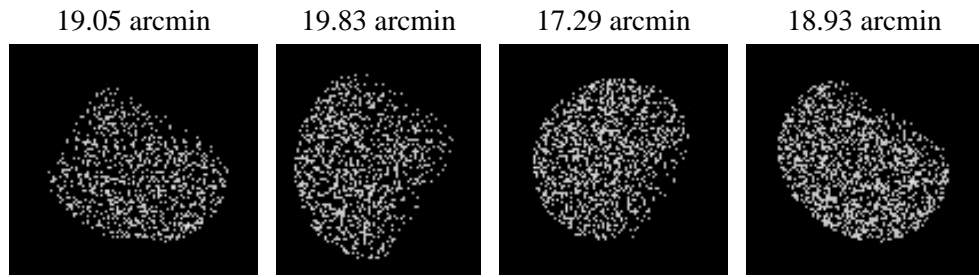
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.07.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.776

A.2 Comments

ACIS imaging on I array.

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The focal plane temperature is approximately -110 C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.