

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10906 - L2 Version 2
Chandra X-Ray Center

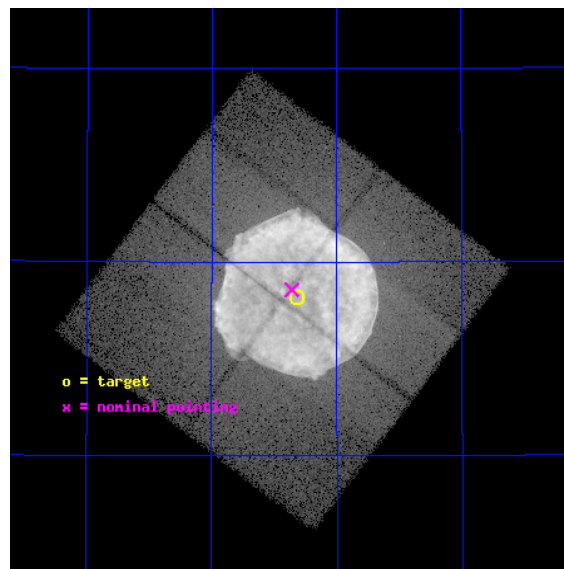
L2 Processing Date : Jun 6 2012

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1 Front

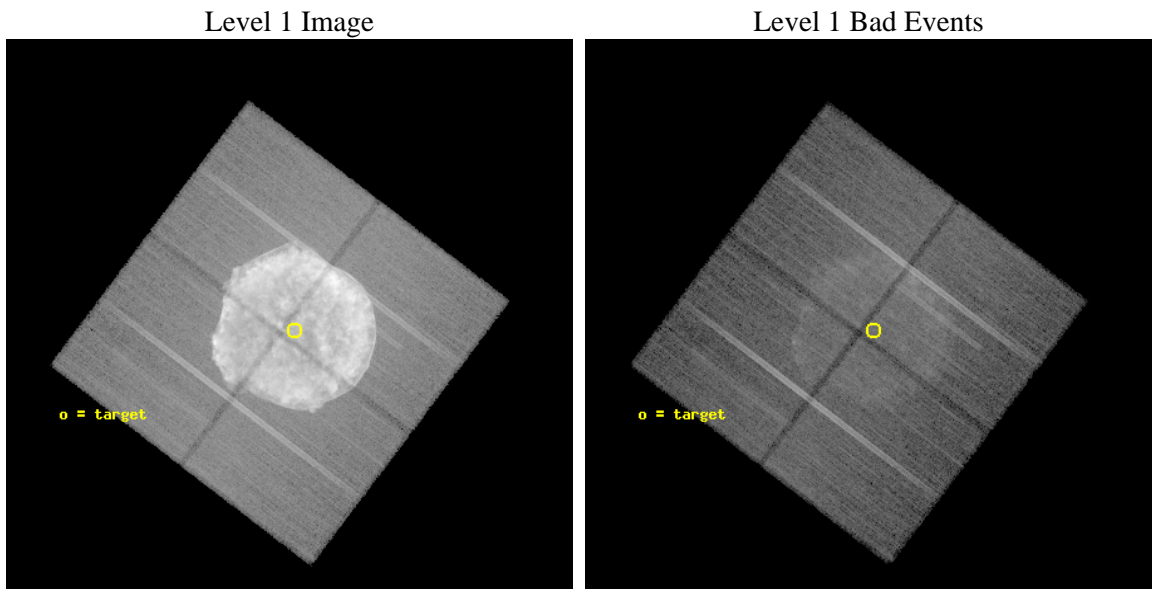
seq_num	501025	Sequence number
obs_id	10906	Observation id
title	A Deep Cycle 10 Chandra Observation of the Tycho Supernova Remnant	
observer	Prof. John Hughes	Principal investigator
object	Tycho's SNR	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	6.329167	Observer's specified target RA [deg]
dec_targ	64.136111	Observer's specified target Dec [deg]
ra_nom	6.339908734339	Nominal RA [deg]
dec_nom	64.142677430882	Nominal Dec [deg]
roll_nom	37.199022381851	Nominal Roll [deg]
revision	2	Processing version of data
ontime	41667.100320458	Sum of GTIs [s]
livetime	41122.688979899	Livetime [s]
ontime0	41667.100320458	Sum of GTIs [s]
ontime1	41667.100320458	Sum of GTIs [s]
ontime2	41663.959370196	Sum of GTIs [s]
ontime3	41667.100320458	Sum of GTIs [s]
l2events	2790735	Number of level 2 events



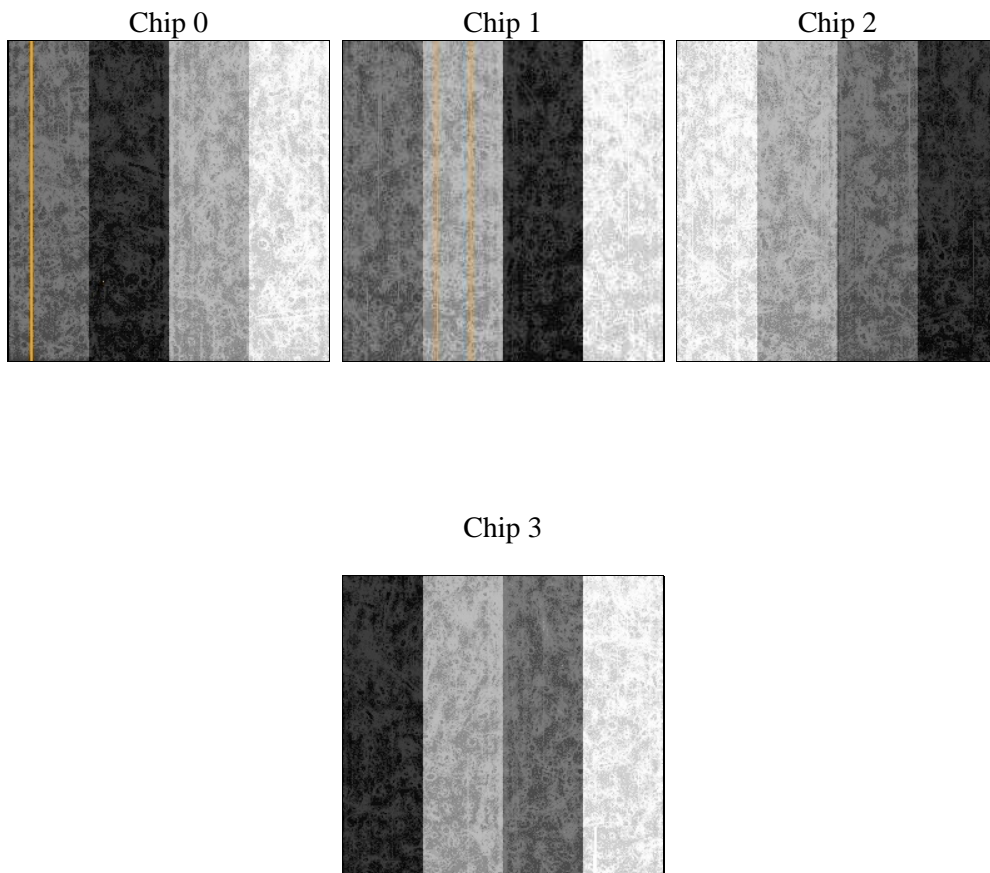
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	41610.435000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	41667.100320458	Sum of GTIs [s]
caldbver	4.4.10	 	ontime0	41667.100320458	Sum of GTIs [s]
date	2012-06-06T07:45:12	Date and time of file creation	ontime1	41667.100320458	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	41663.959370196	Sum of GTIs [s]
			ontime3	41667.100320458	Sum of GTIs [s]
			l1events	4230578	Number of level 1 events

2.1.4 Events

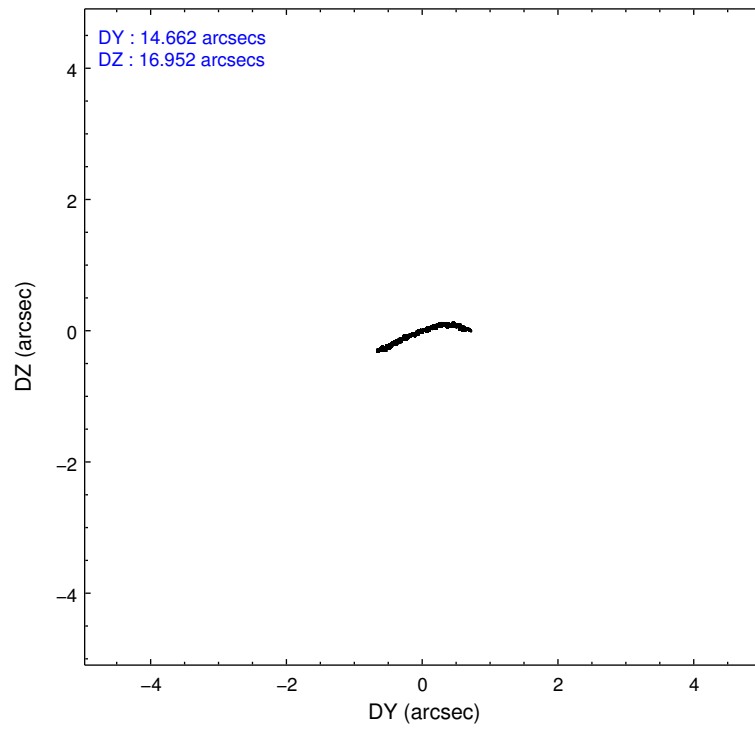
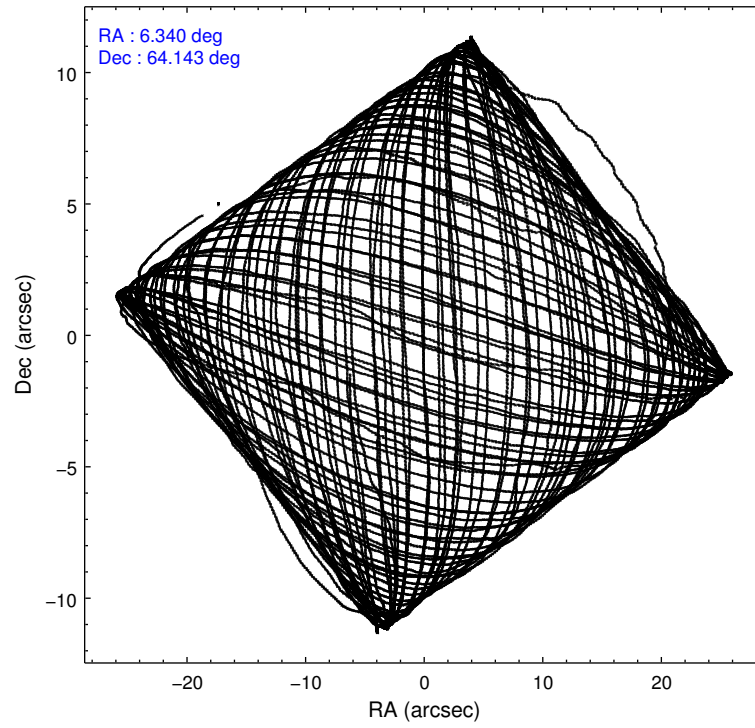
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	714534	852999	1189692	1473353
rejected events	295231	300388	350140	337124
rejected %	41%	35%	29%	22%

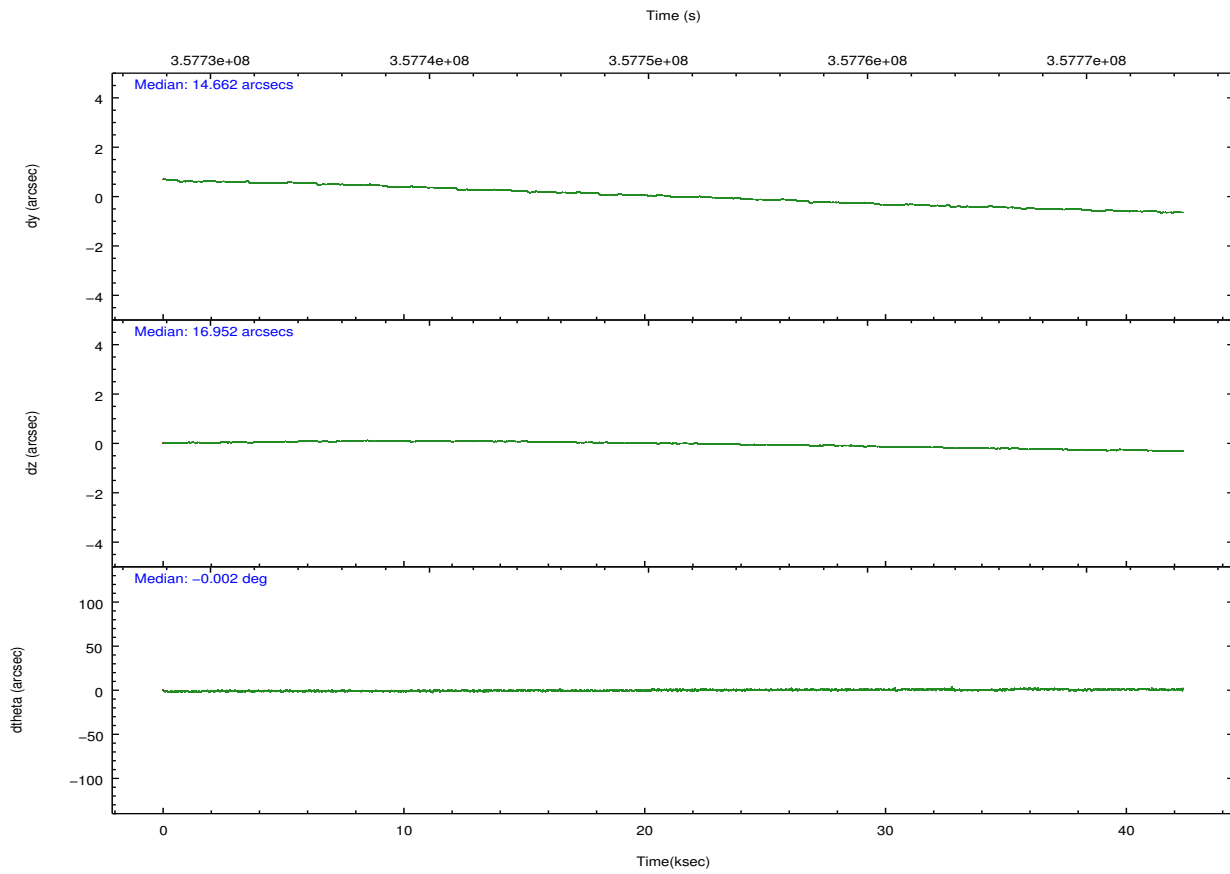
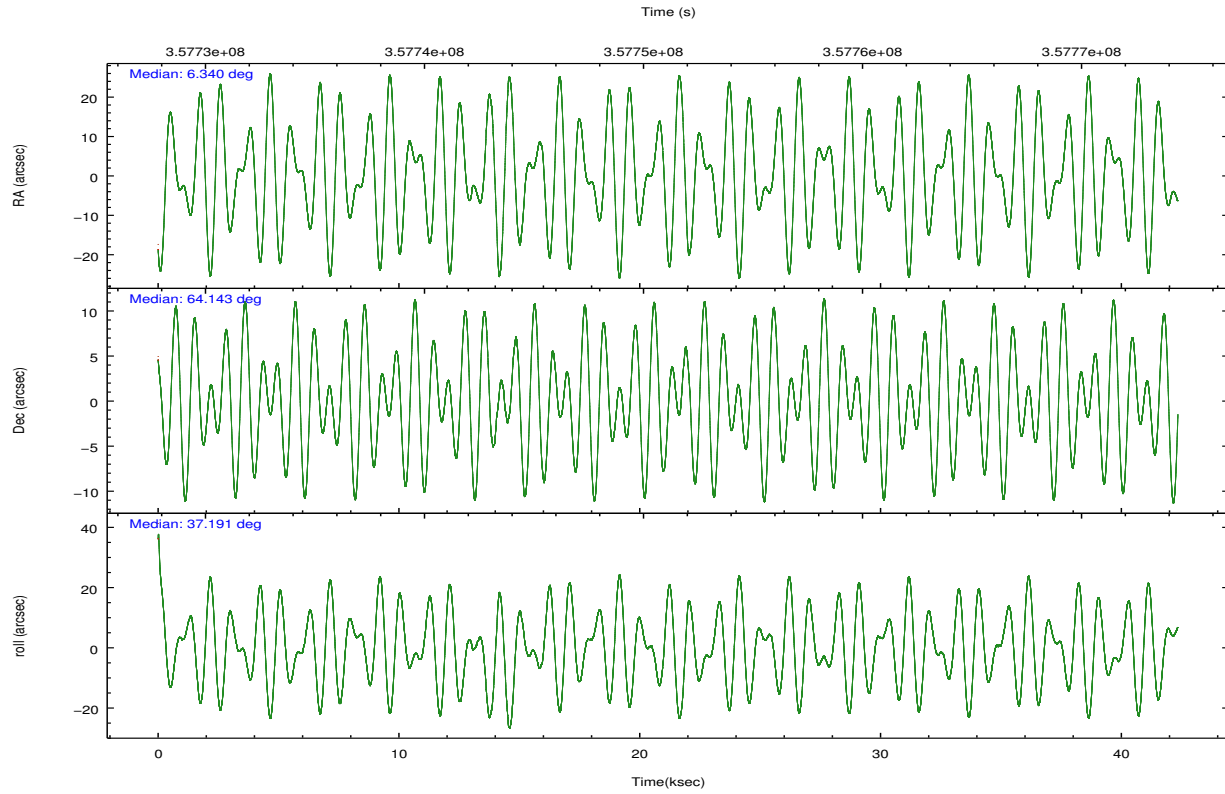
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	334692	441353	695513	943493
	46%	51%	58%	64%
grade 1 events	2535	2868	6102	7718
	0%	0%	0%	0%
grade 2 events	44556	58531	78198	105688
	6%	6%	6%	7%
grade 3 events	13701	18206	24058	32429
	1%	2%	2%	2%
grade 4 events	13616	17922	24120	32169
	1%	2%	2%	2%
grade 5 events	12164	13811	13484	17199
	1%	1%	1%	1%
grade 6 events	12765	16652	17718	22510
	1%	1%	1%	1%
grade 7 events	280505	283656	330499	312147
	39%	33%	27%	21%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	6.315743	6.339908734338962	Subarray requested	NONE	NONE
[deg] Pointing Dec	64.117283	64.14267743088232	Alternating exposures requested	N	N
[deg] Pointing Roll	37.012084	37.19902238185052	[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)	357730690.184000	357729544.81011			
Observation start date	2009-05-03T09:37:04	2009-05-03T09:19:04			
[s] Observation end time (MET)	357772301.184000	357772534.33725			
Observation end date	2009-05-03T21:10:35	2009-05-03T21:15:34			
Read mode	TIMED	TIMED			

2.3 Aspect



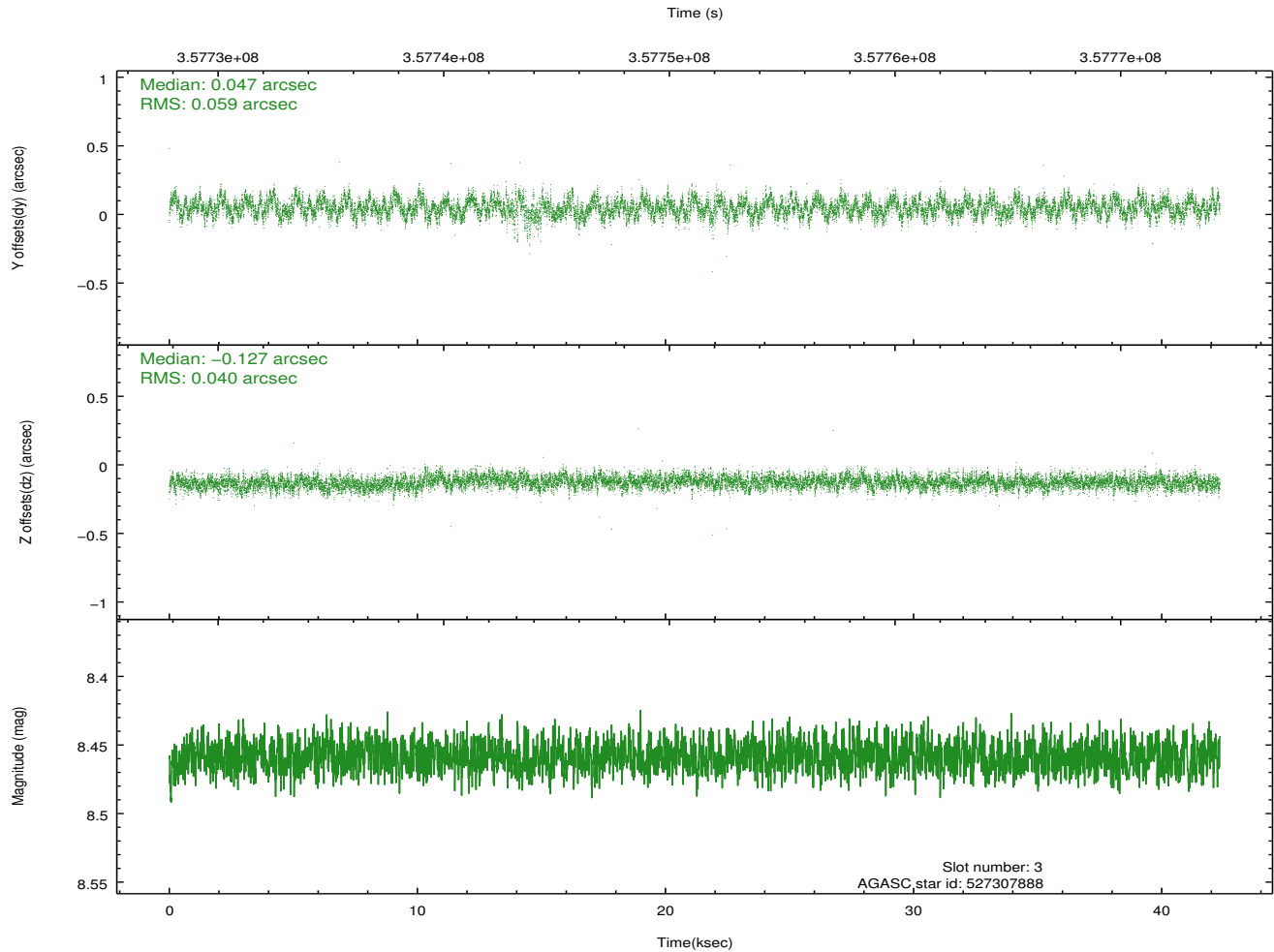
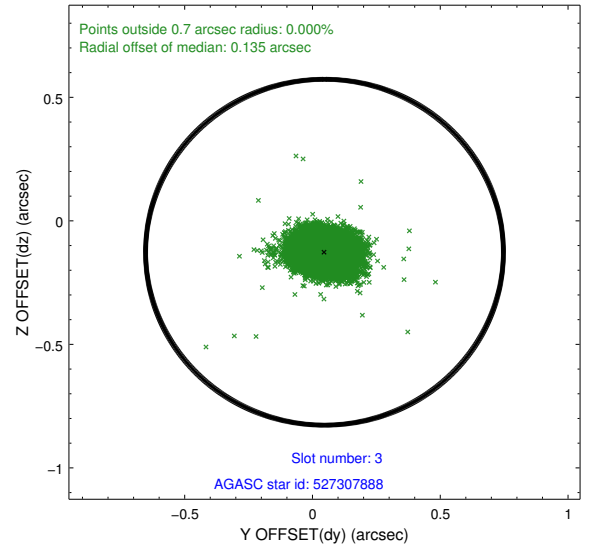
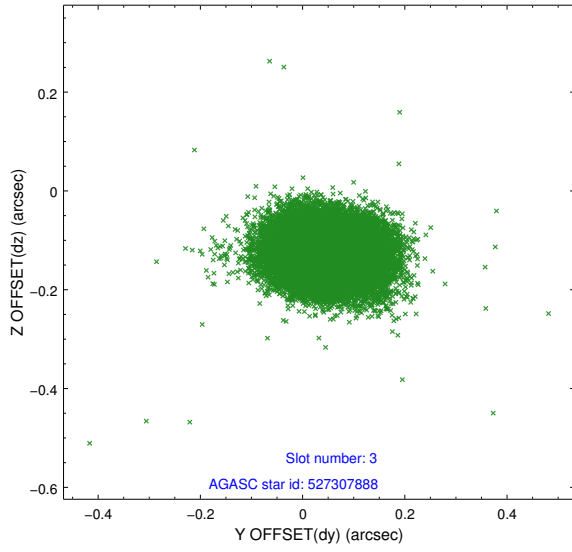


Slot Statistics

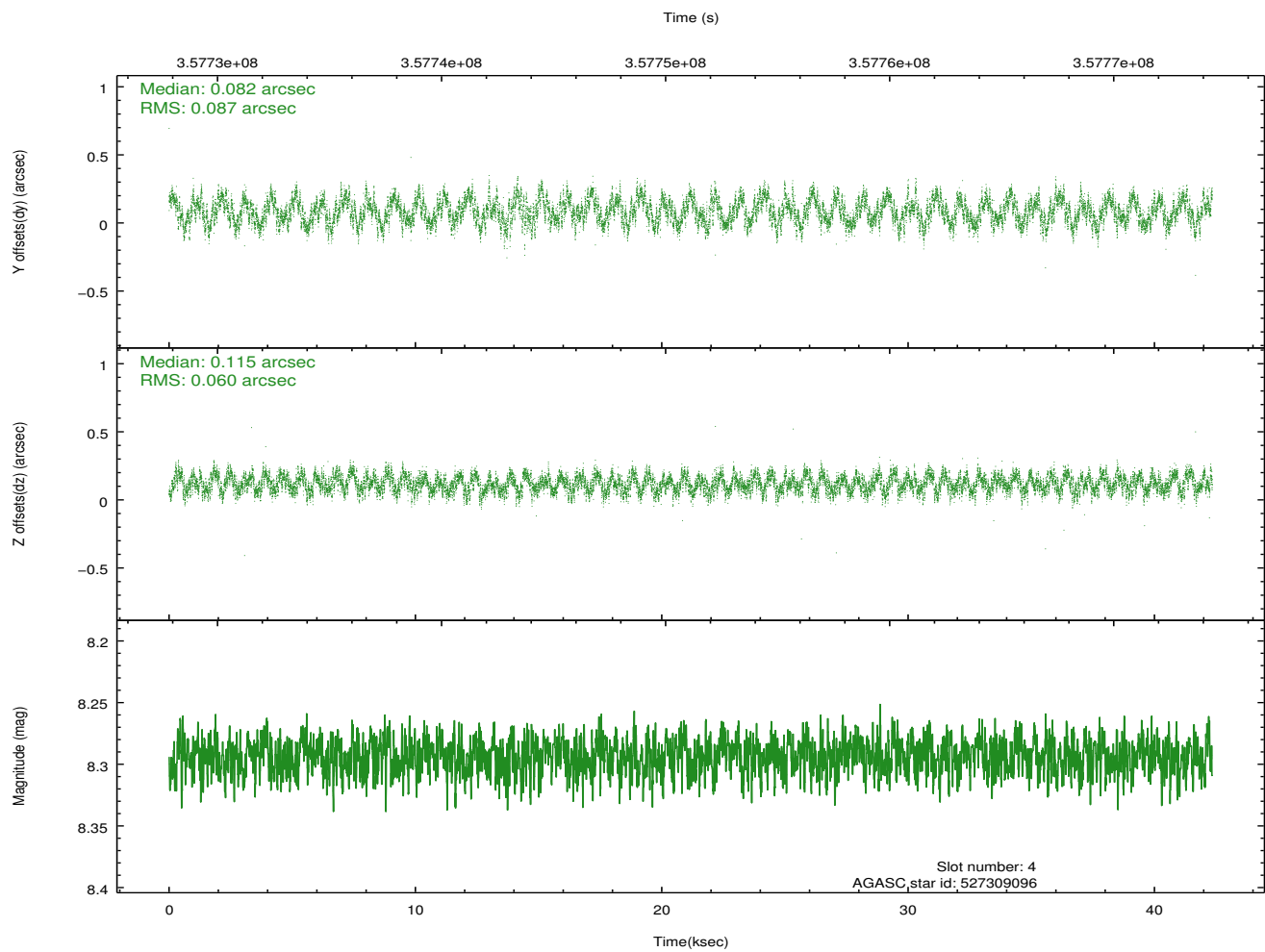
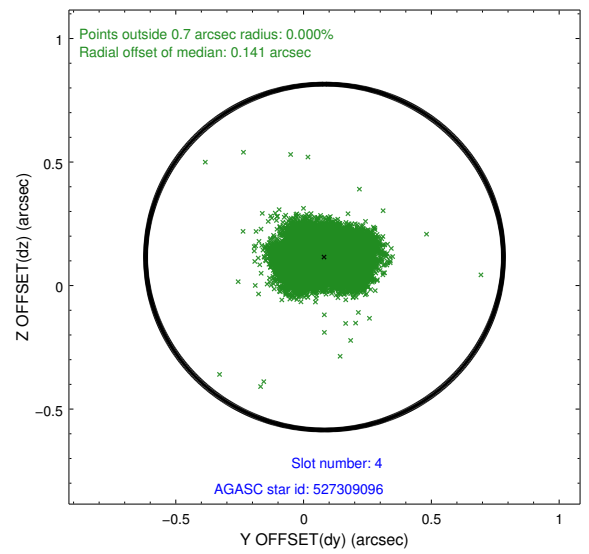
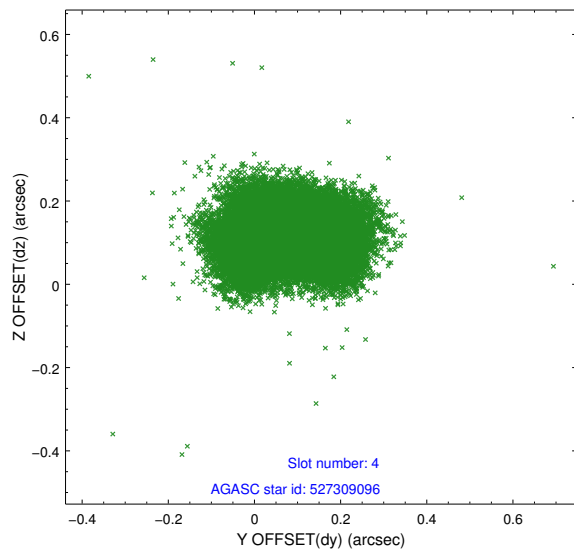
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	10328	0.002	-0.089	0.009	0.016	0.000000	0.000000	924.80	-840.64
1	FID	ACIS-I-4	6.95	10328	0.128	0.085	0.014	0.022	0.000000	0.000000	2144.97	1059.34
2	FID	ACIS-I-5	7.00	10329	-0.231	0.076	0.013	0.027	0.000000	0.000000	-1823.43	1057.18
3	GUIDE	527307888	8.46	20647	0.047	-0.127	0.075	0.122	4.965121	64.287990	-1300.85	1778.24
4	GUIDE	527309096	8.29	20653	0.082	0.115	0.115	0.176	7.726277	64.064373	1673.90	-1468.74
5	GUIDE	527310400	7.73	20652	-0.074	-0.225	0.059	0.095	6.292387	64.638680	1101.28	1520.53
6	GUIDE	526789120	8.90	20635	0.055	0.056	0.075	0.122	5.233481	63.667511	-2345.46	-240.92
7	GUIDE	526791328	8.61	20638	-0.107	0.182	0.102	0.155	7.600207	63.681314	704.99	-2470.43

2.4 Star Slots

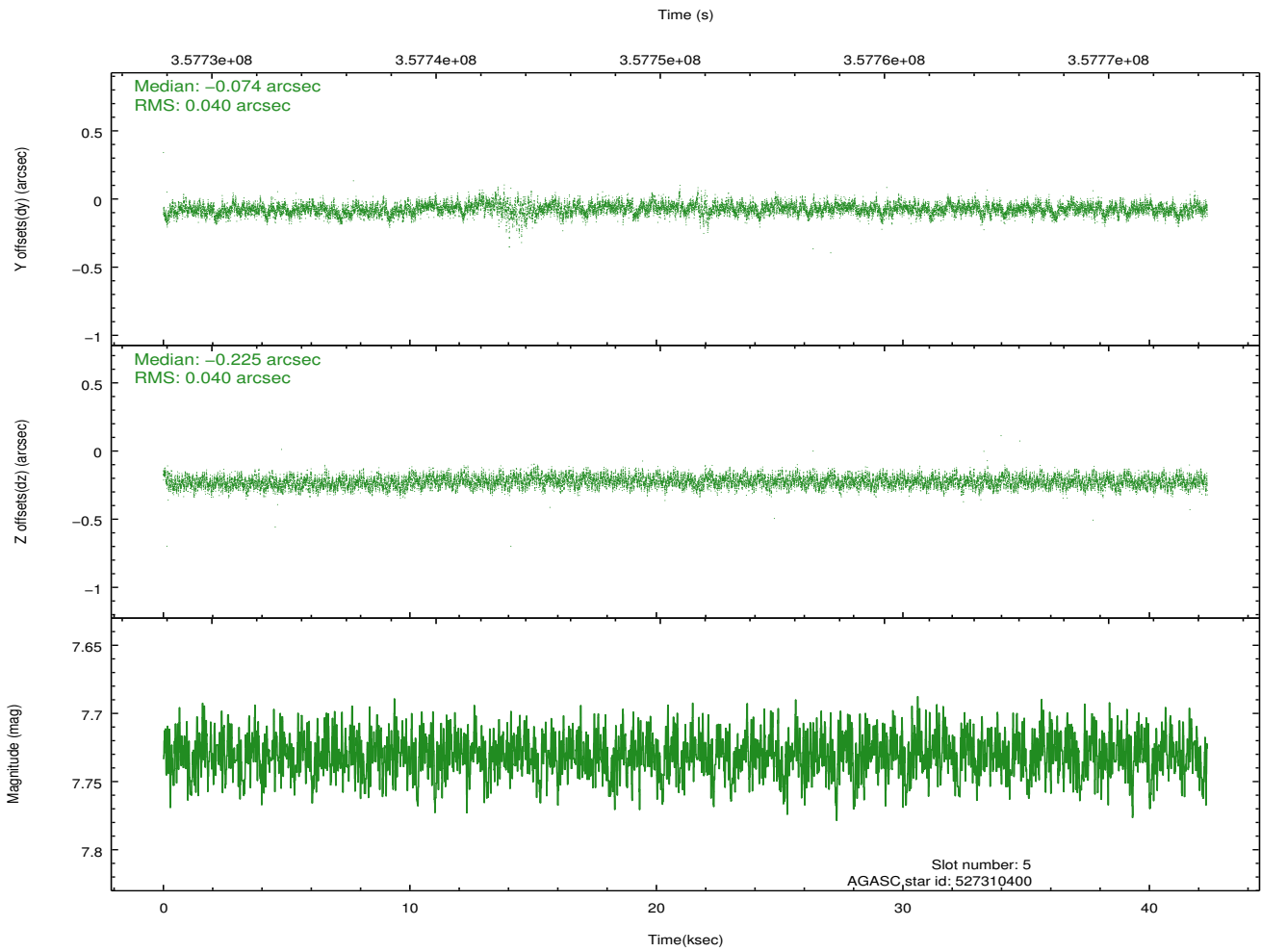
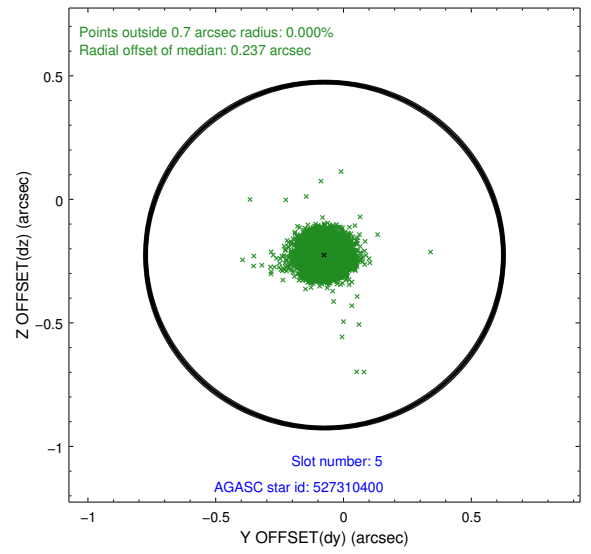
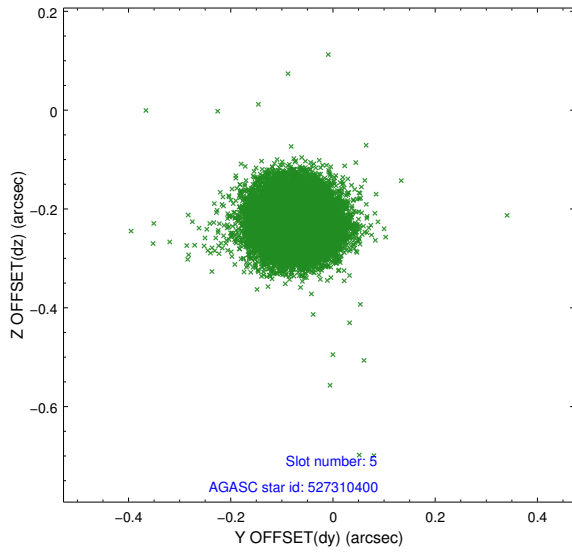
2.4.1 Slot 3



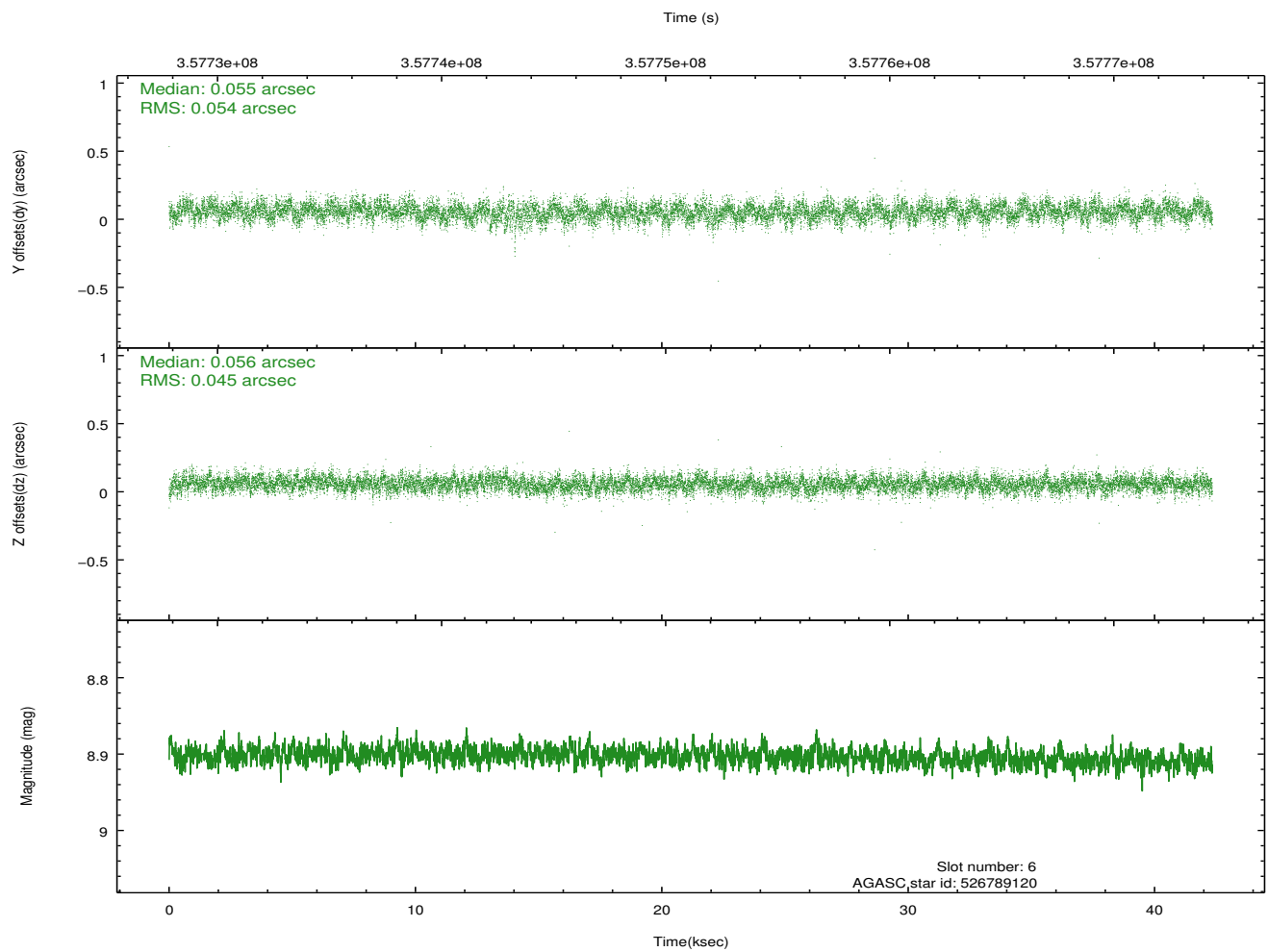
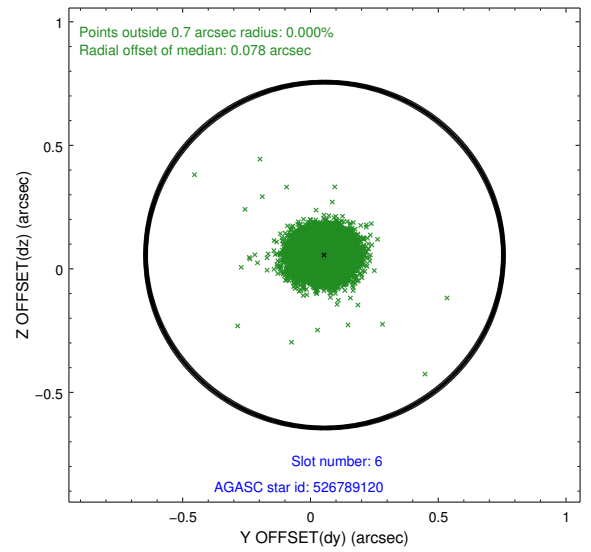
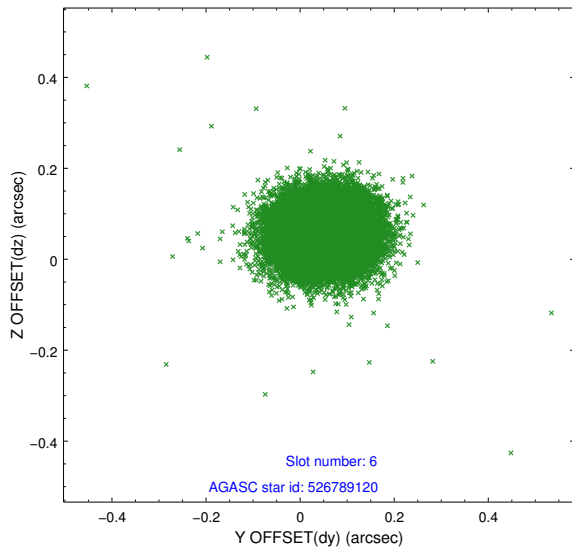
2.4.2 Slot 4



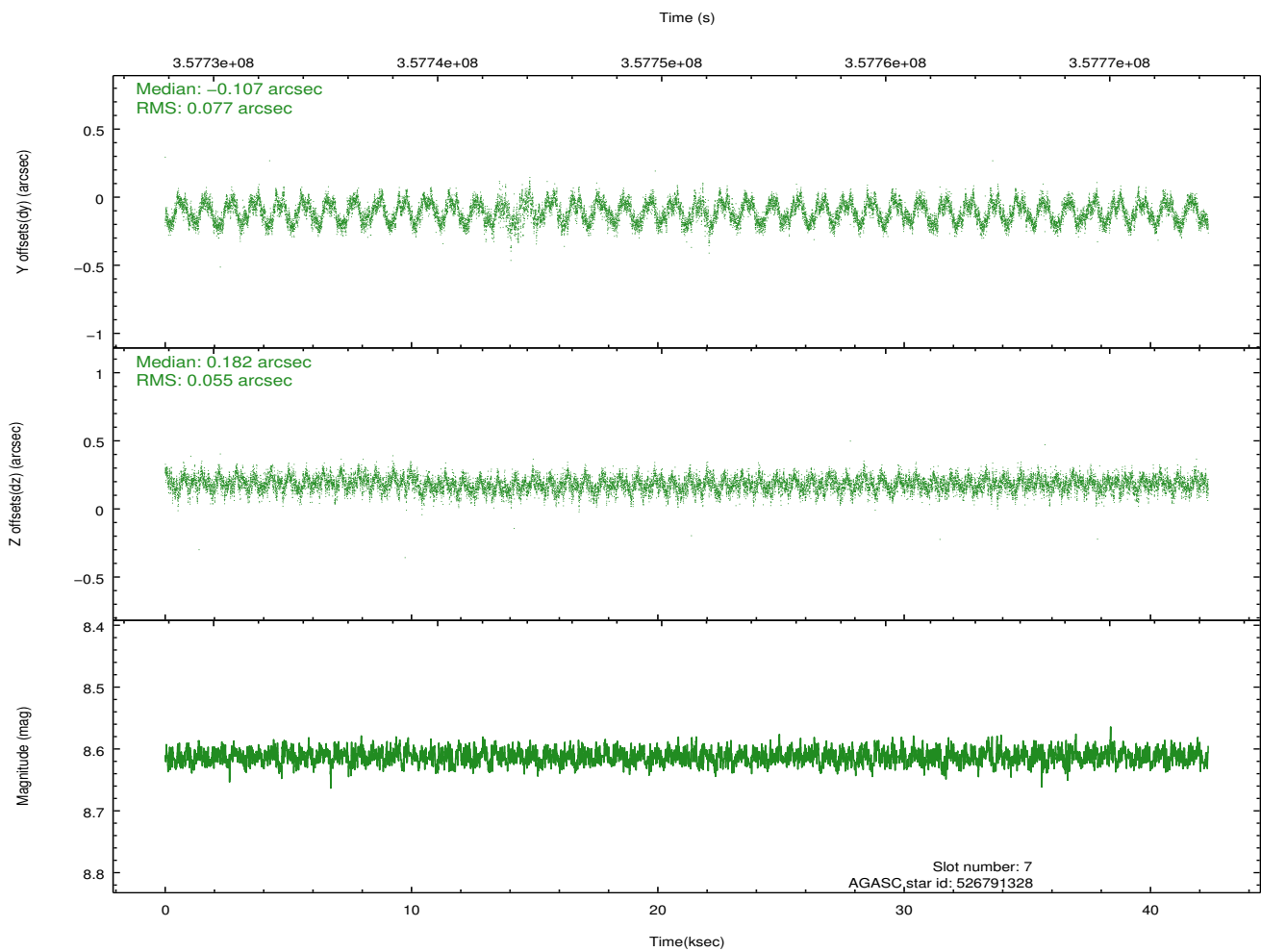
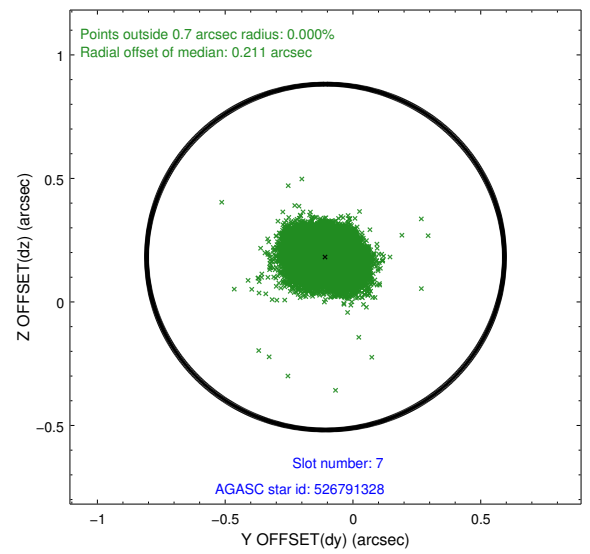
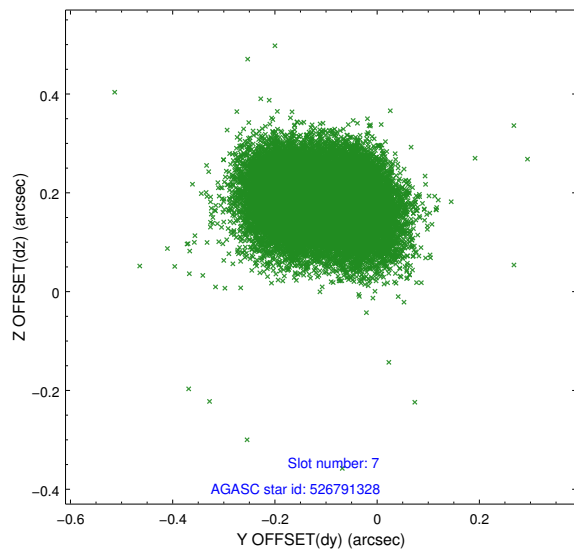
2.4.3 Slot 5



2.4.4 Slot 6

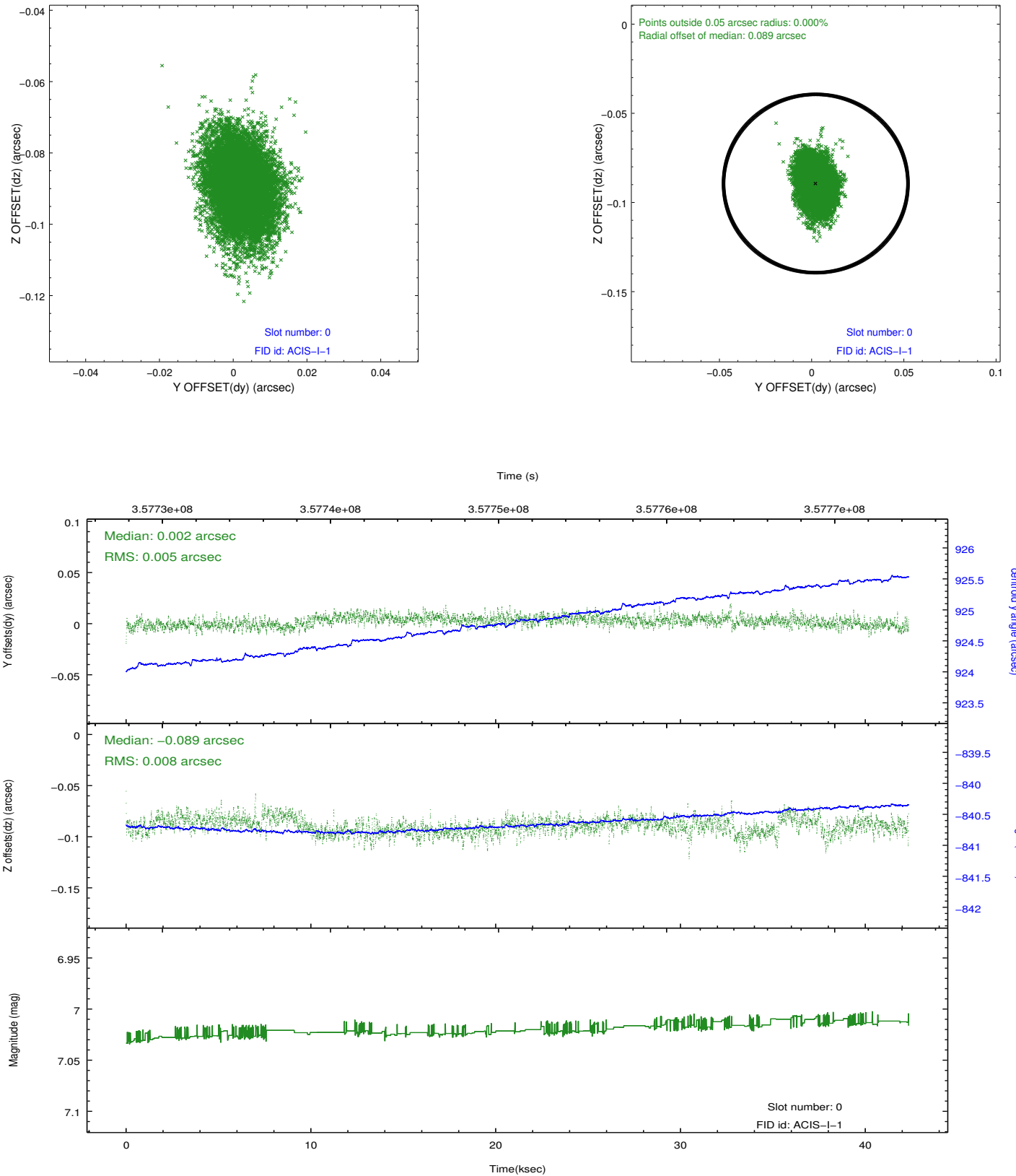


2.4.5 Slot 7

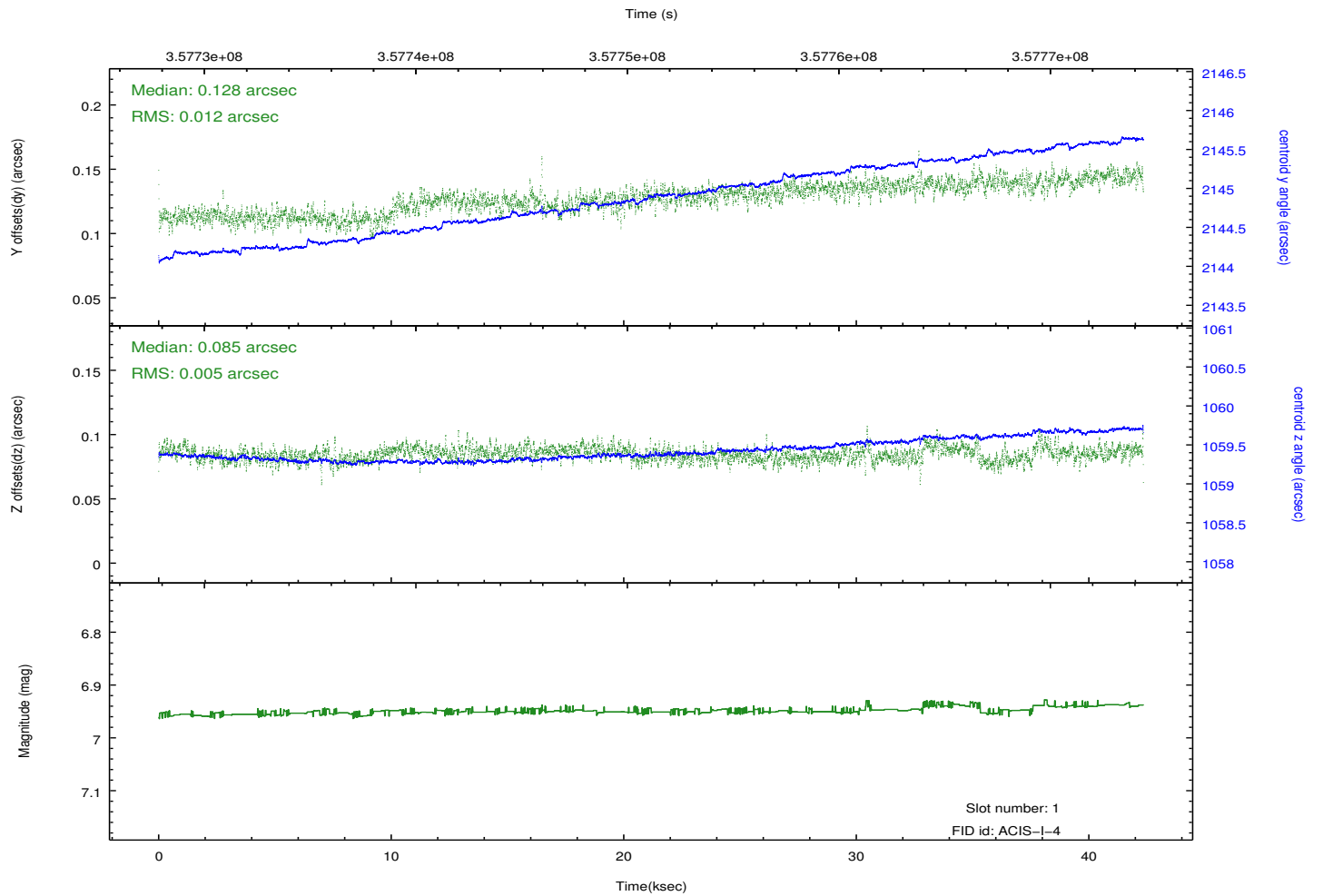
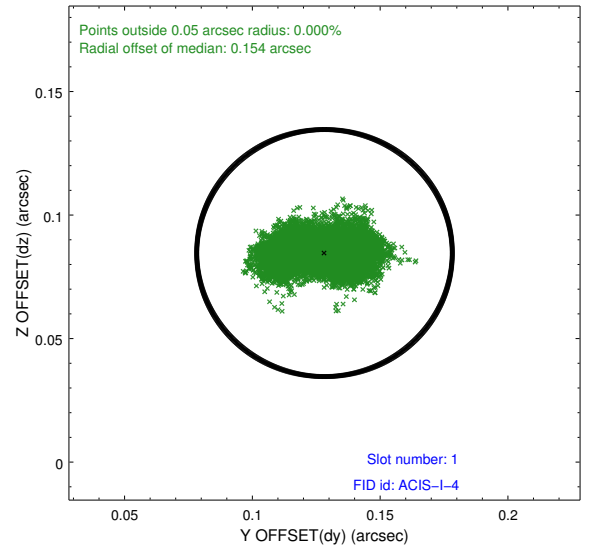
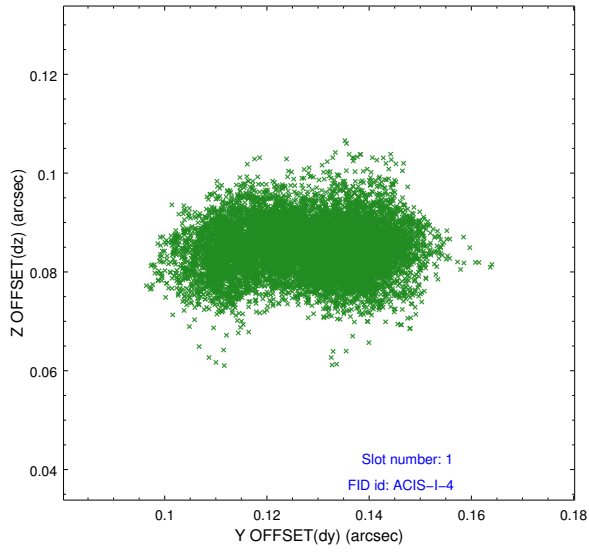


2.5 FID Slots

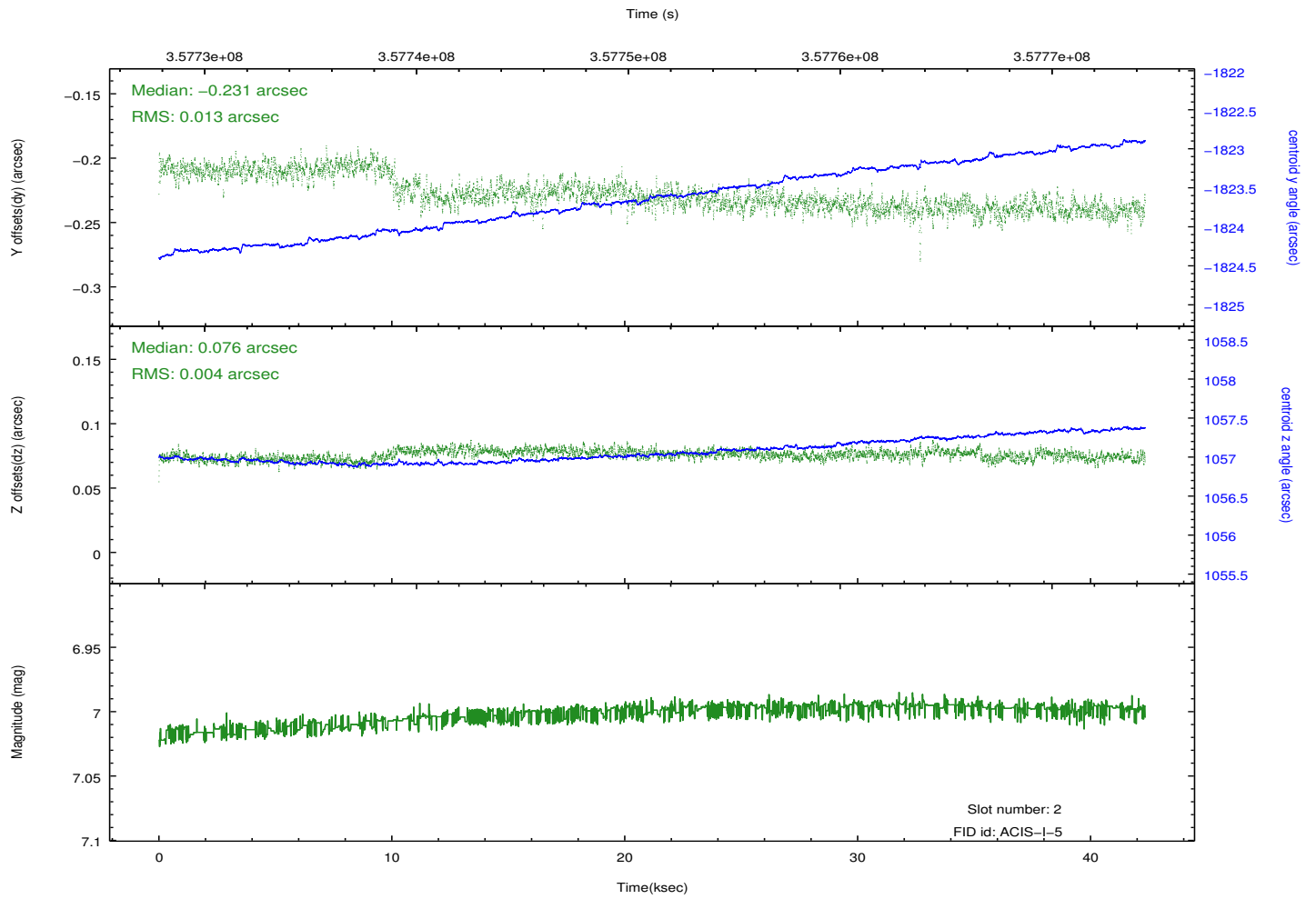
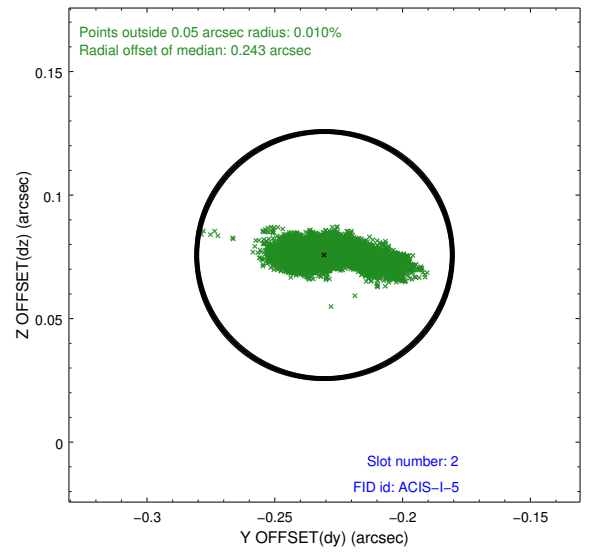
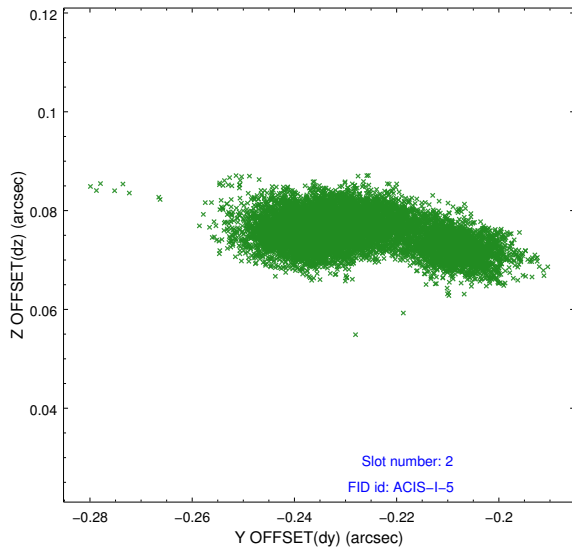
2.5.1 Slot 0



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)	2012.06.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.6671003

A.2 Comments