

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11710 - L2 Version 2
Chandra X-Ray Center

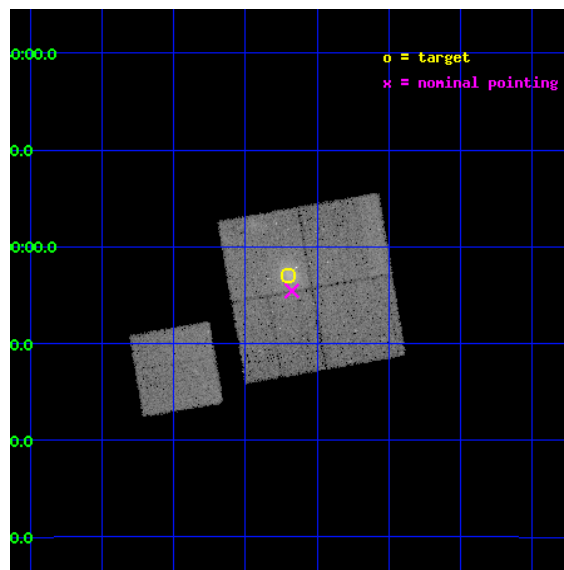
L2 Processing Date : Jun 13 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

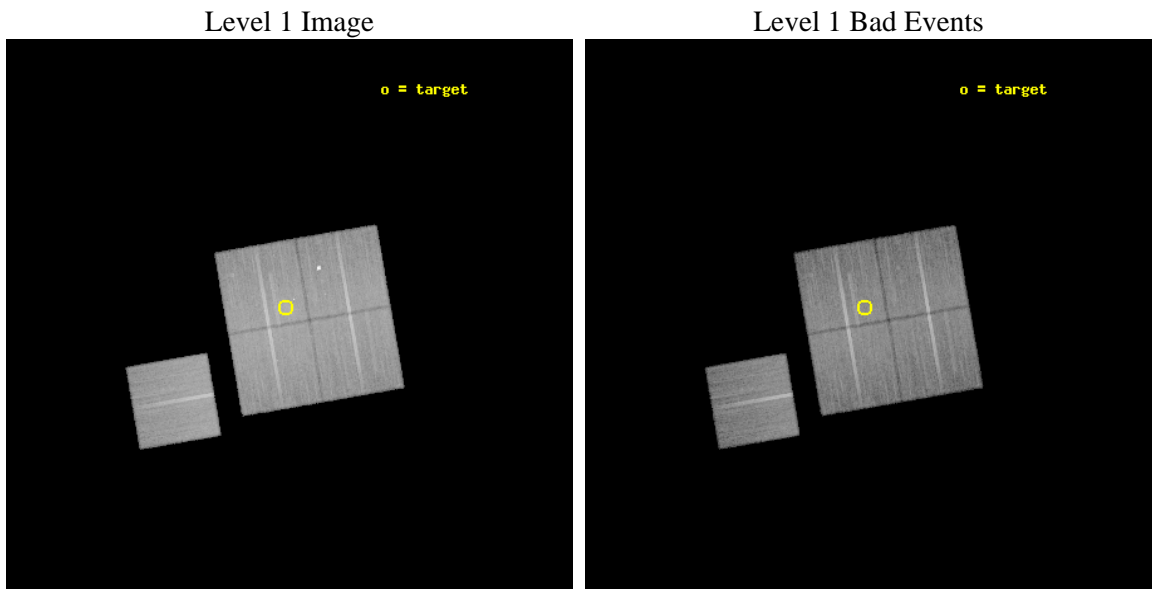
seq_num	800852	Sequence number
obs_id	11710	Observation id
title	The distribution and interactions of luminous and dark matter in strong-lensing clusters at $z > 0.3$	Proposal title
observer	Dr. Harald Ebeling	Principal investigator
object	MACSJ2135.2-0102	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	323.800417	Observer's specified target RA [deg]
dec_targ	-1.048889	Observer's specified target Dec [deg]
ra_nom	323.79389250726	Nominal RA [deg]
dec_nom	-1.0758986313295	Nominal Dec [deg]
roll_nom	260.19261178477	Nominal Roll [deg]
revision	2	Processing version of data
ontime	27028.777147055	Sum of GTIs [s]
liveltime	26675.626275332	Livetime [s]
ontime0	27031.918187261	Sum of GTIs [s]
ontime1	27035.05918771	Sum of GTIs [s]
ontime2	27031.918167353	Sum of GTIs [s]
ontime3	27028.777147055	Sum of GTIs [s]
ontime6	27038.200207949	Sum of GTIs [s]
l2events	112387	Number of level 2 events



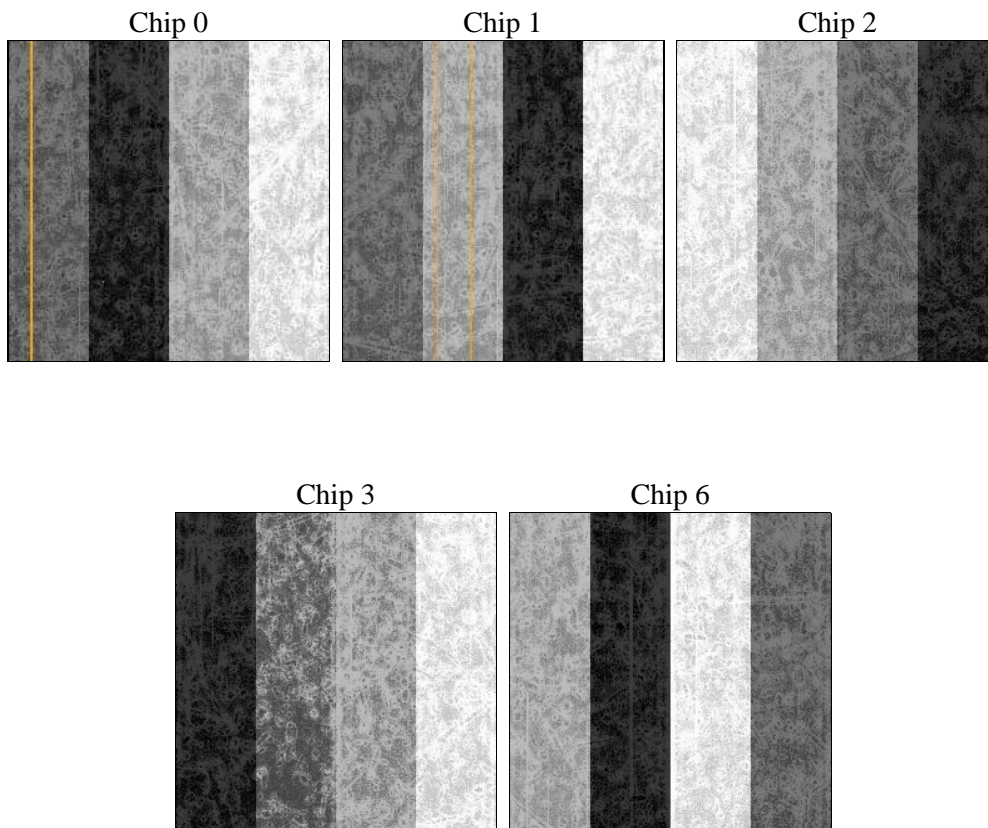
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	27028.777147055	Sum of GTIs [s]
caldbver	4.4.10	 	ontime0	27031.918187261	Sum of GTIs [s]
date	2012-06-13T03:38:44	Date and time of file creation	ontime1	27035.05918771	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	27031.918167353	Sum of GTIs [s]
			ontime3	27028.777147055	Sum of GTIs [s]
			ontime6	27038.200207949	Sum of GTIs [s]
			l1events	1193886	Number of level 1 events

2.1.4 Events

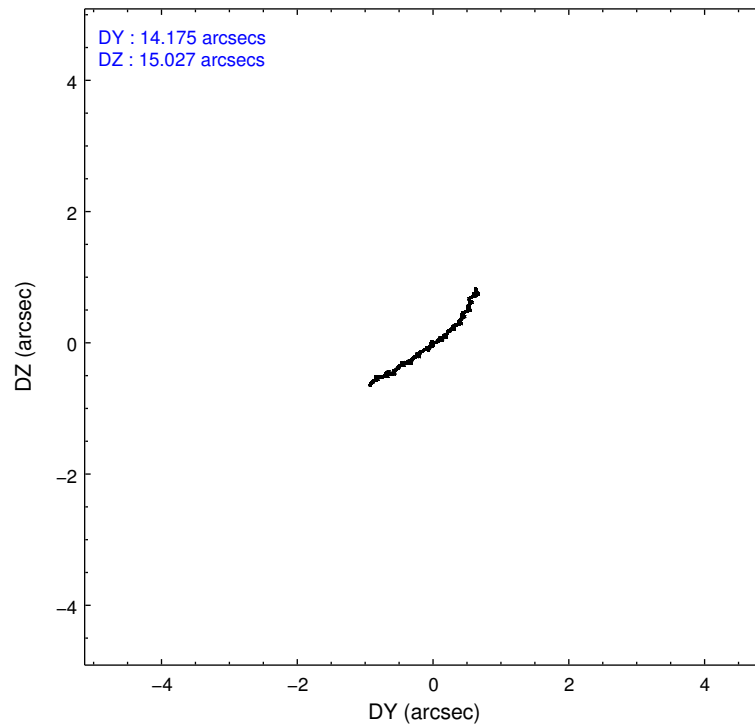
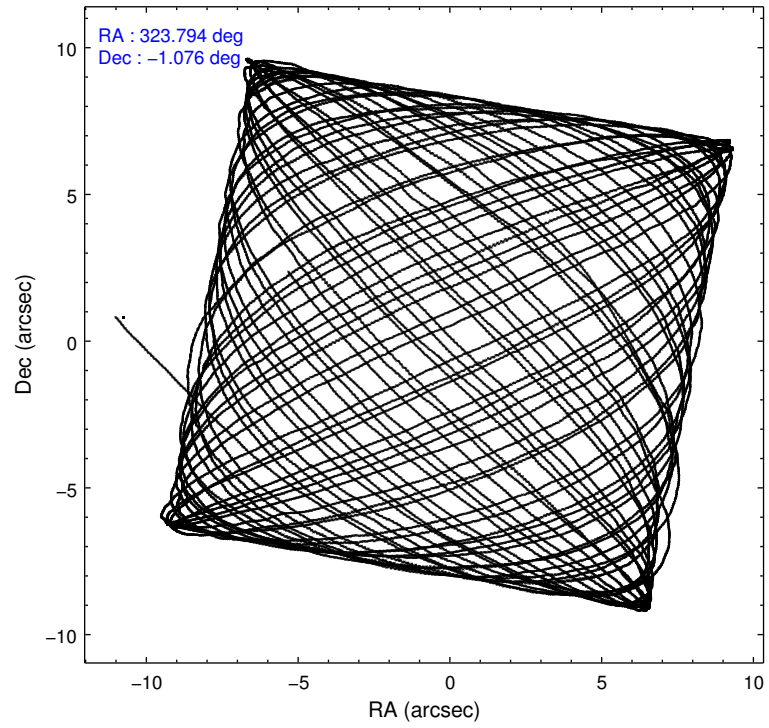
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	225063	234565	245988	247299	240971
rejected events	200592	198903	221561	215281	215947
rejected %	89%	84%	90%	87%	89%

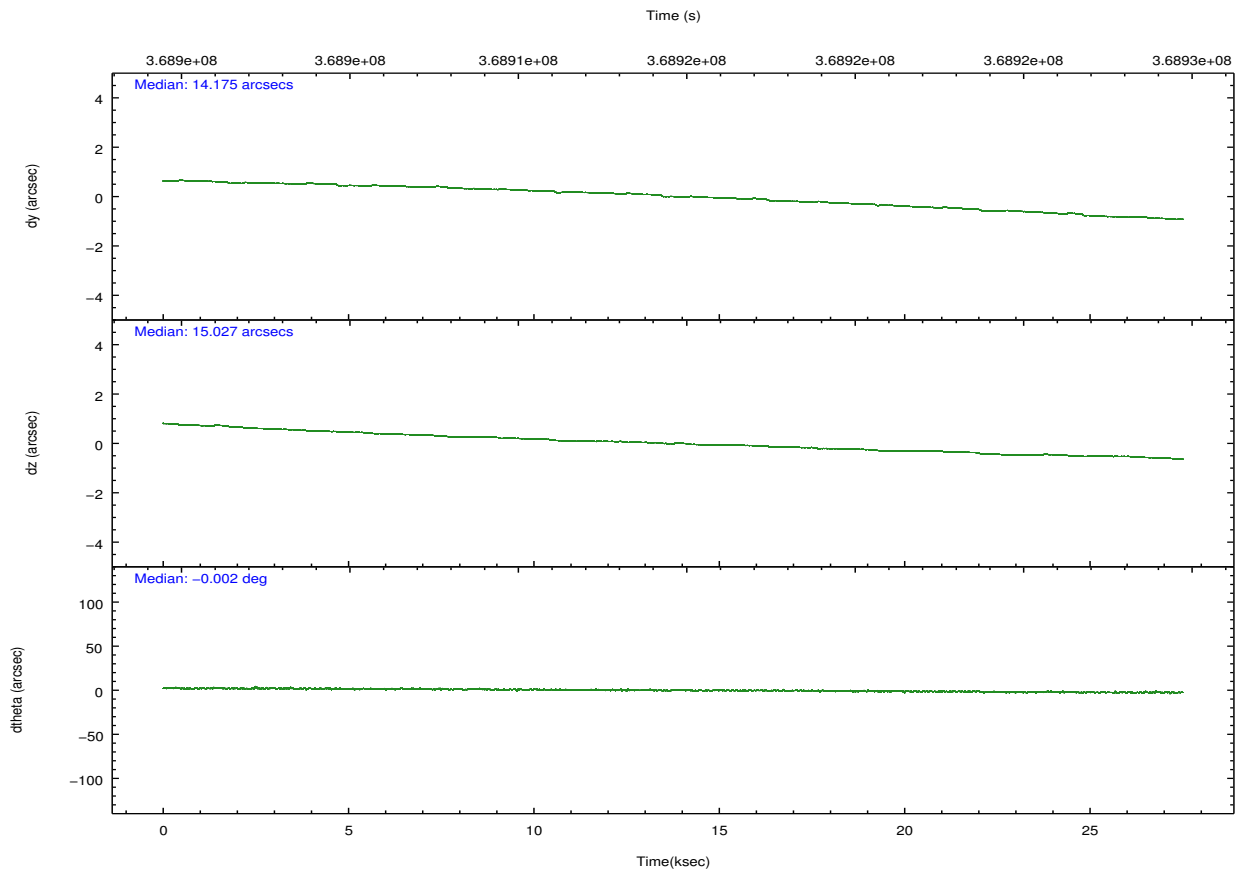
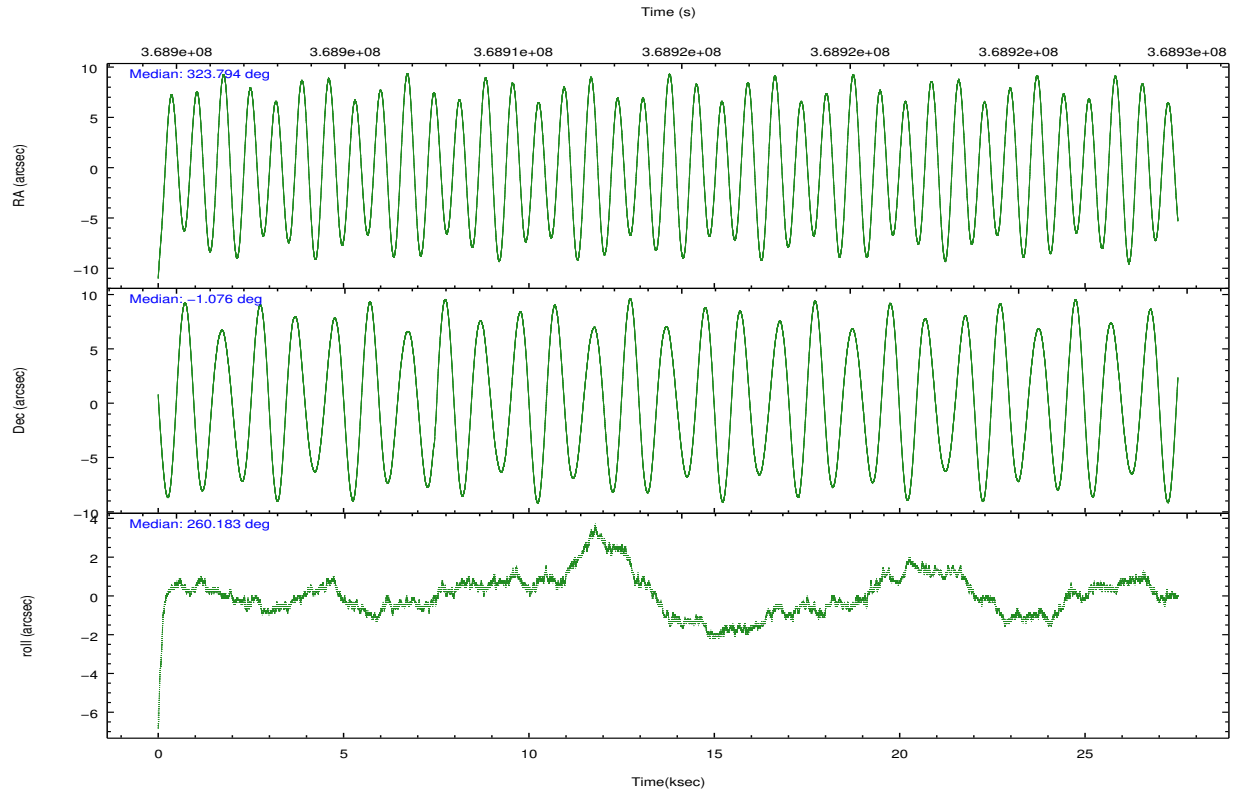
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8520	18051	9132	15242	8643
	3%	7%	3%	6%	3%
grade 1 events	137	220	149	216	121
	0%	0%	0%	0%	0%
grade 2 events	6014	6388	5725	6001	5595
	2%	2%	2%	2%	2%
grade 3 events	2657	2911	2551	2894	2584
	1%	1%	1%	1%	1%
grade 4 events	2445	2826	2588	2862	2730
	1%	1%	1%	1%	1%
grade 5 events	8621	9376	8499	10141	9826
	3%	3%	3%	4%	4%
grade 6 events	4842	5492	4433	5026	5479
	2%	2%	1%	2%	2%
grade 7 events	191827	189301	212911	204917	205993
	85%	80%	86%	82%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	323.784289	323.7938925072593	Subarray requested	NONE	NONE
[deg] Pointing Dec	-1.050104	-1.075898631329533	Alternating exposures requested	N	N
[deg] Pointing Roll	259.983745	260.1926117847696	[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	-229.442463	-229.4438428438578			
[mm] SIM translation stage offset	-4.15	-4.148610159071865			
[s] Observation start time (MET)	368901337.184000	368900248.54344			
Observation start date	2009-09-09T16:34:31	2009-09-09T16:17:28			
[s] Observation end time (MET)	368928337.184000	368929144.31989			
Observation end date	2009-09-10T00:04:31	2009-09-10T00:19:04			
Read mode	TIMED	TIMED			

2.3 Aspect



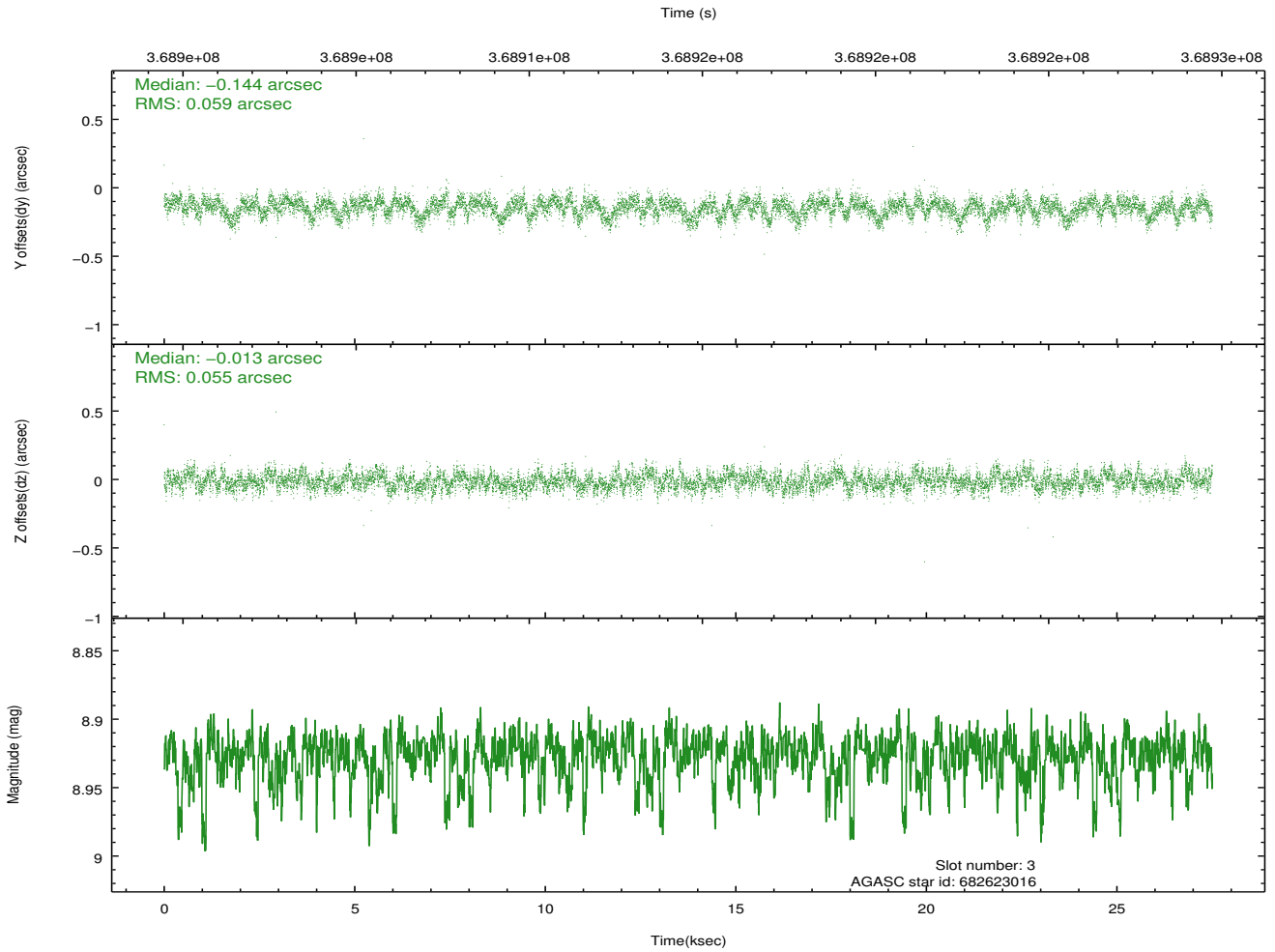
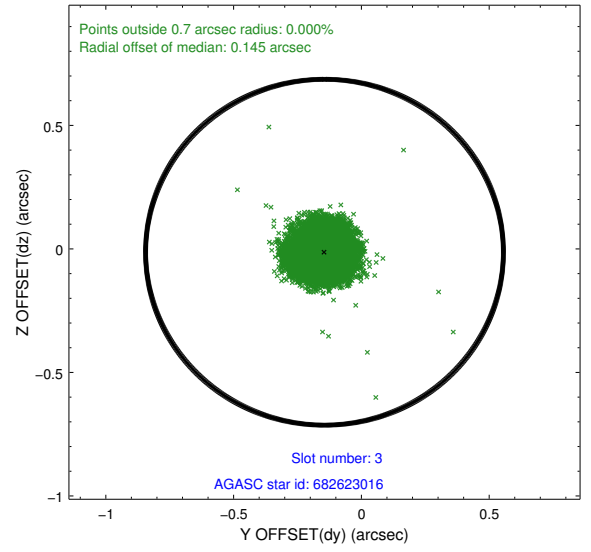
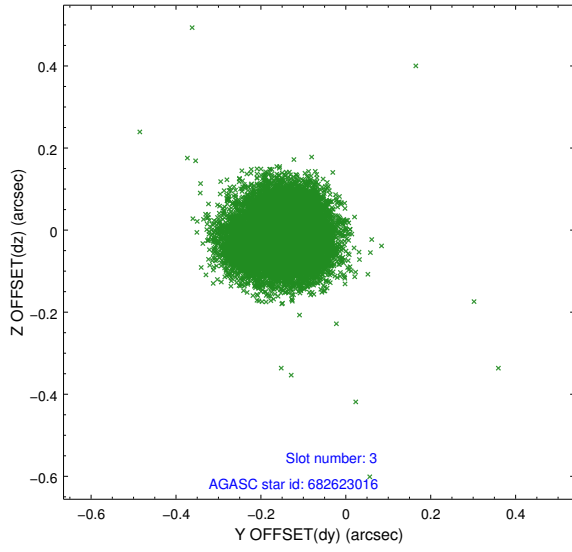


Slot Statistics

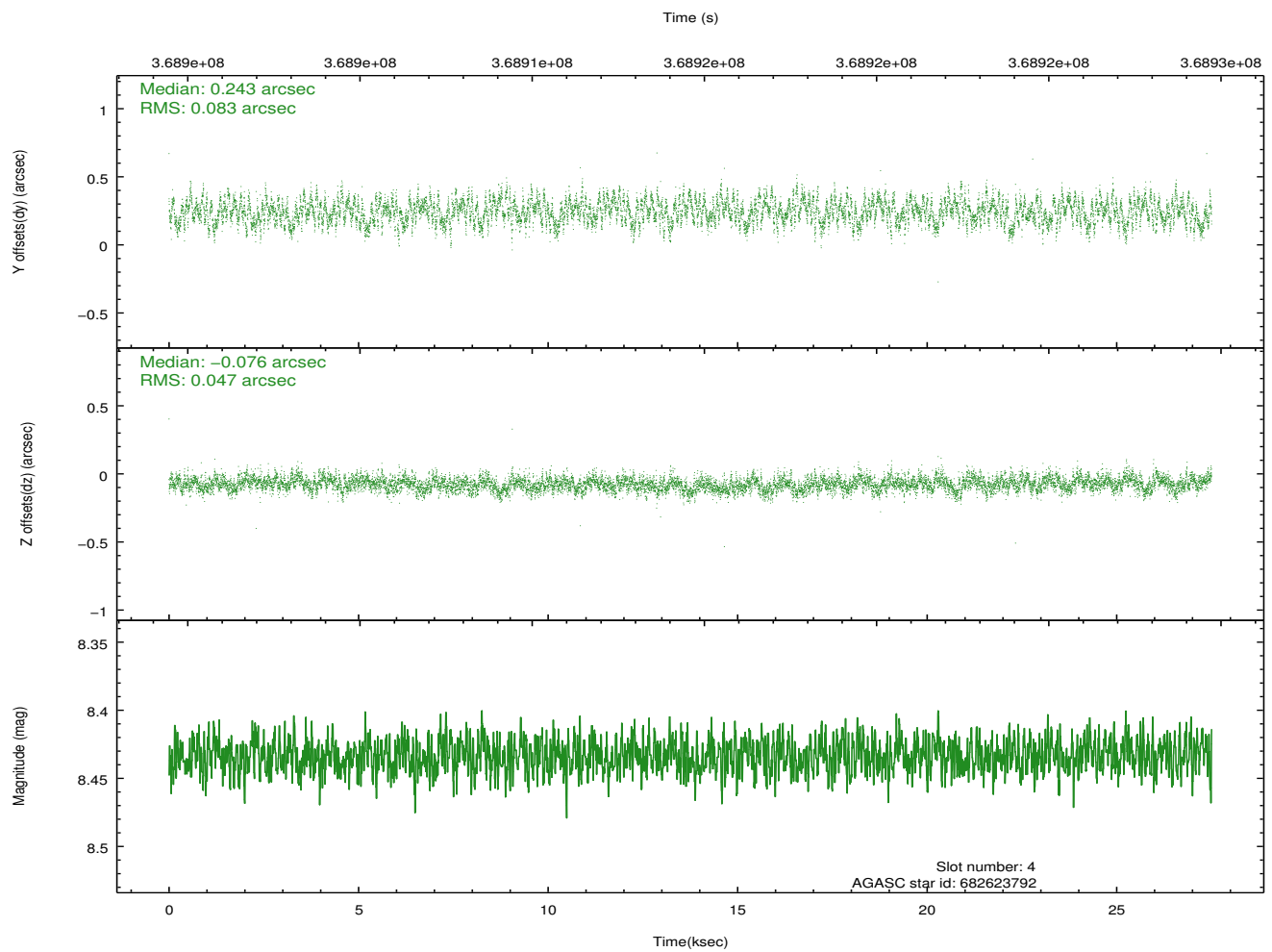
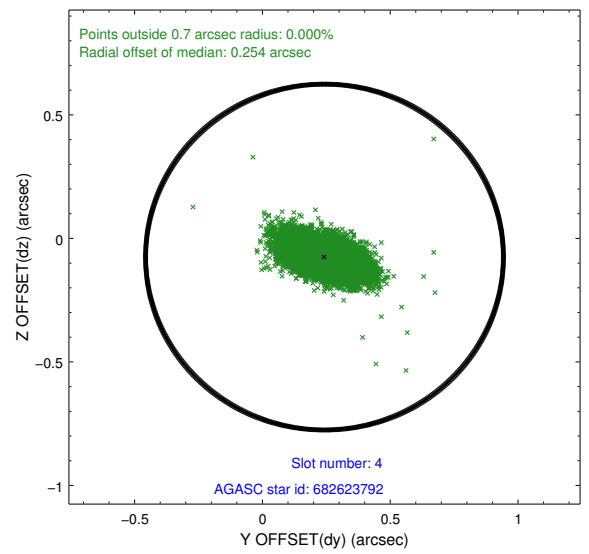
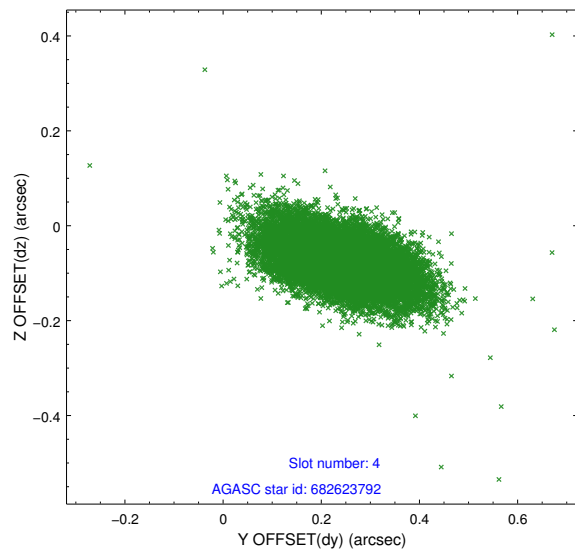
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.04	6709	0.103	-0.047	0.020	0.042	0.000000	0.000000	925.36	-923.81
1	FID	ACIS-I-5	7.04	6709	-0.264	0.090	0.017	0.033	0.000000	0.000000	-1823.06	973.75
2	FID	ACIS-I-6	7.04	6708	0.073	0.027	0.011	0.021	0.000000	0.000000	390.77	1618.31
3	GUIDE	682623016	8.93	13413	-0.144	-0.013	0.086	0.136	323.277710	-1.353202	1392.21	-1605.36
4	GUIDE	682623792	8.43	13403	0.243	-0.076	0.099	0.169	323.021646	-1.542889	2225.84	-2393.98
5	GUIDE	682623856	8.80	13345	0.041	0.095	0.093	0.149	323.527756	-1.561498	1974.55	-588.73
6	GUIDE	682624152	6.86	13418	-0.141	-0.028	0.054	0.098	323.168529	-1.608321	2365.62	-1832.25
7	GUIDE	682759560	8.70	13416	0.009	0.021	0.079	0.123	324.469595	-0.769931	-1421.99	2253.72

2.4 Star Slots

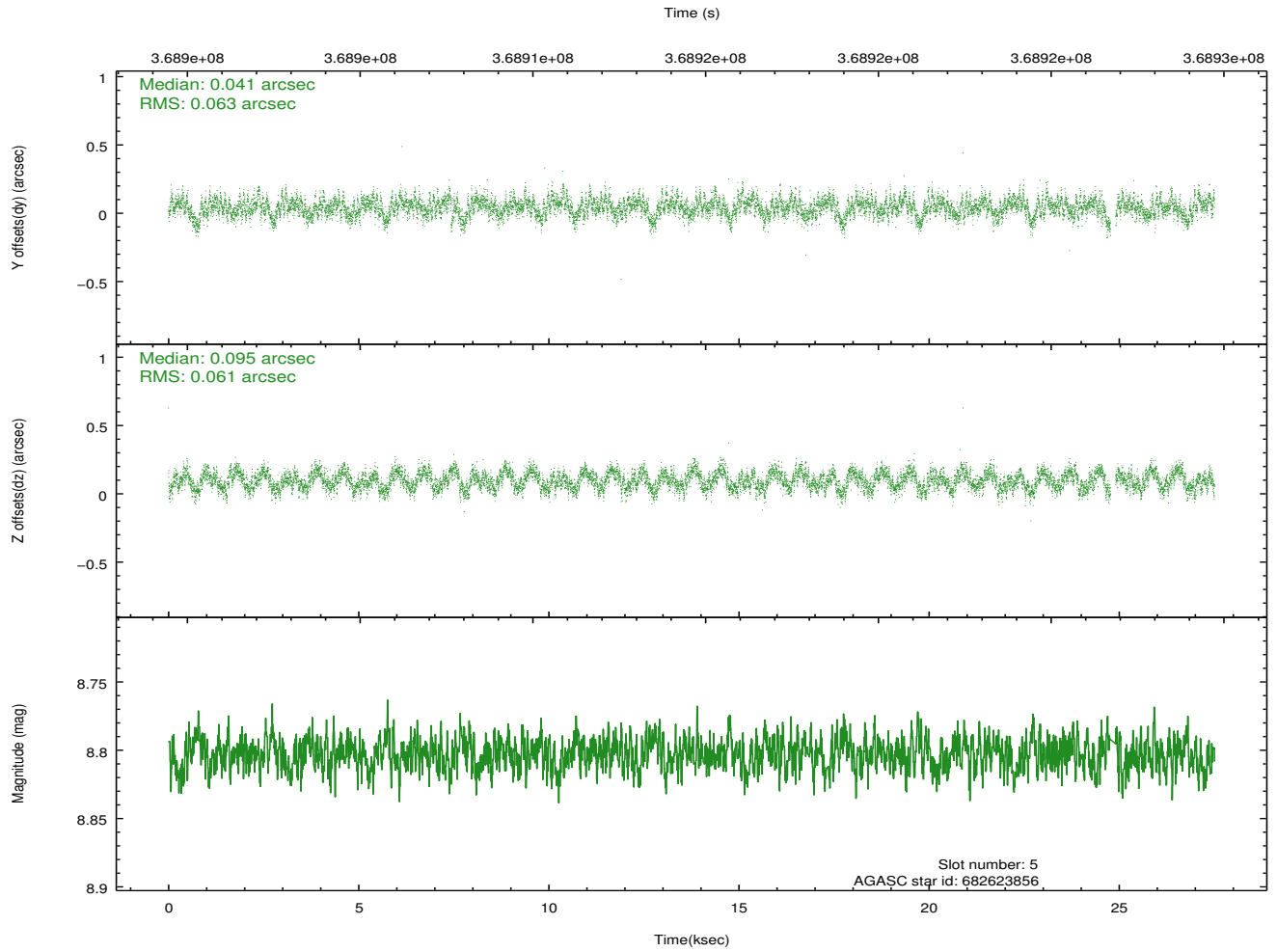
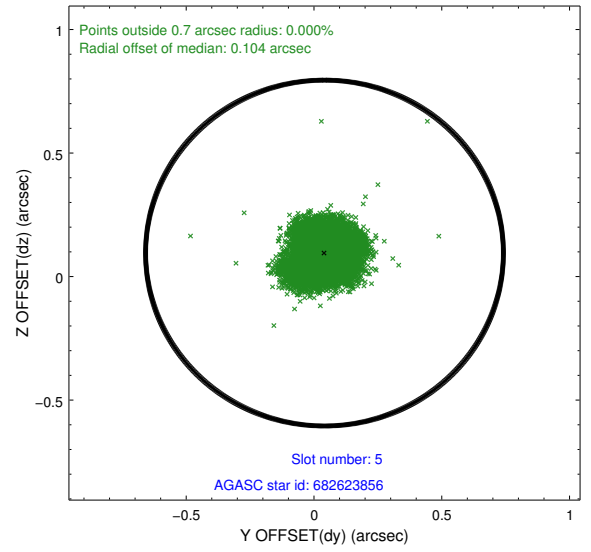
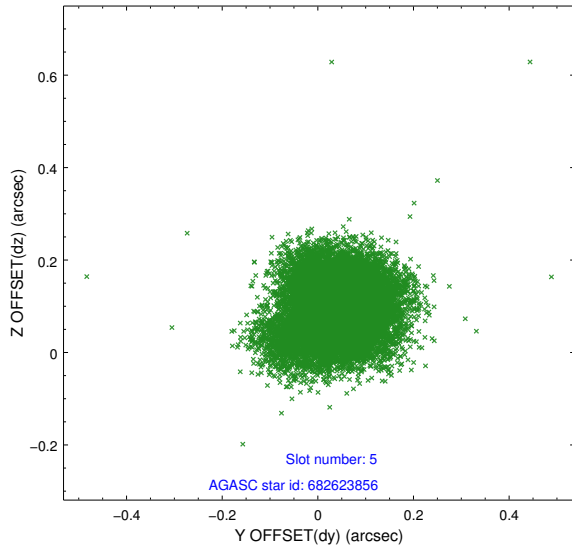
2.4.1 Slot 3



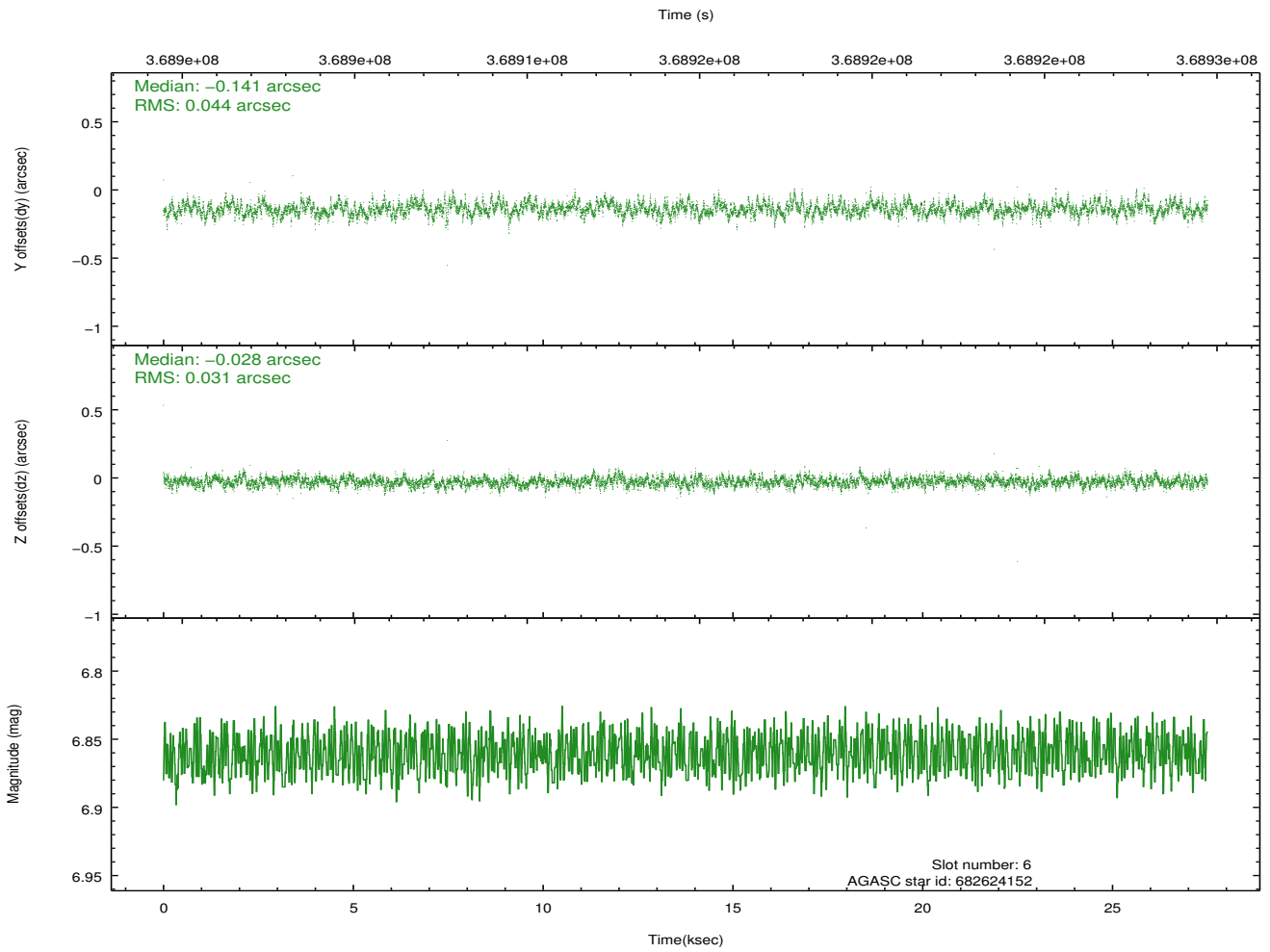
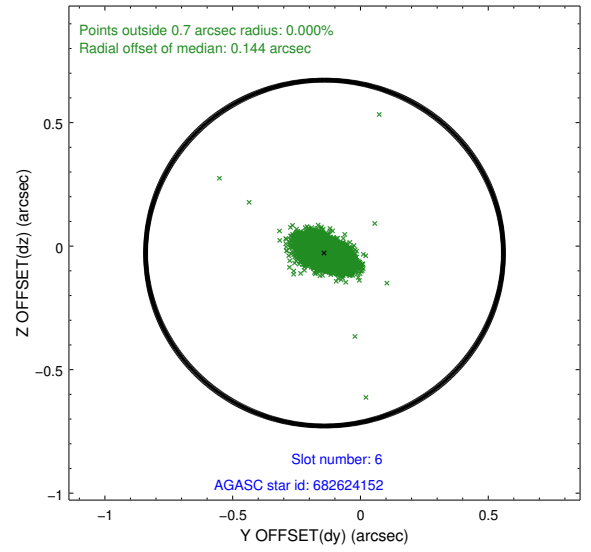
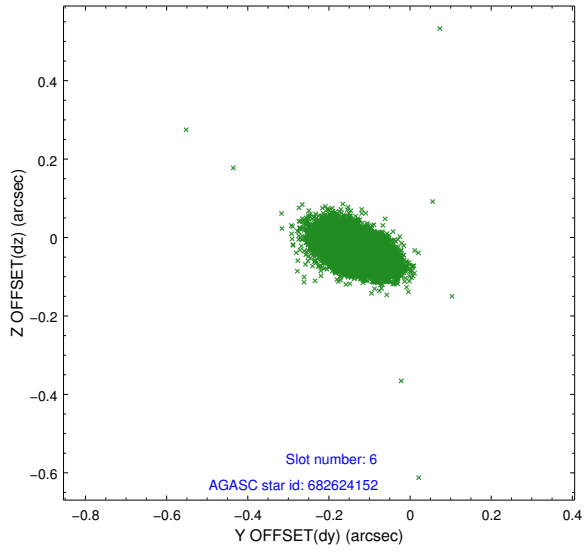
2.4.2 Slot 4



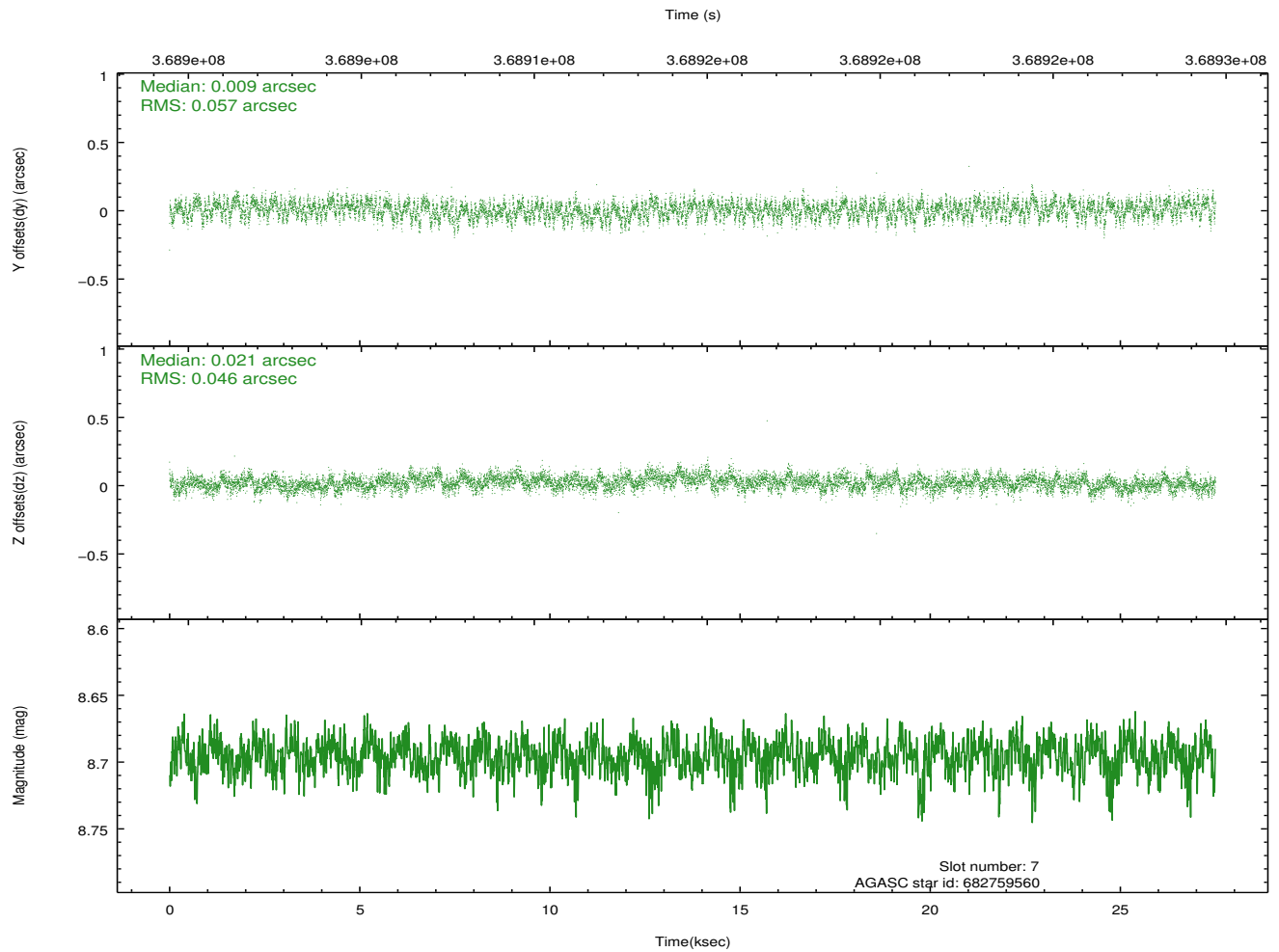
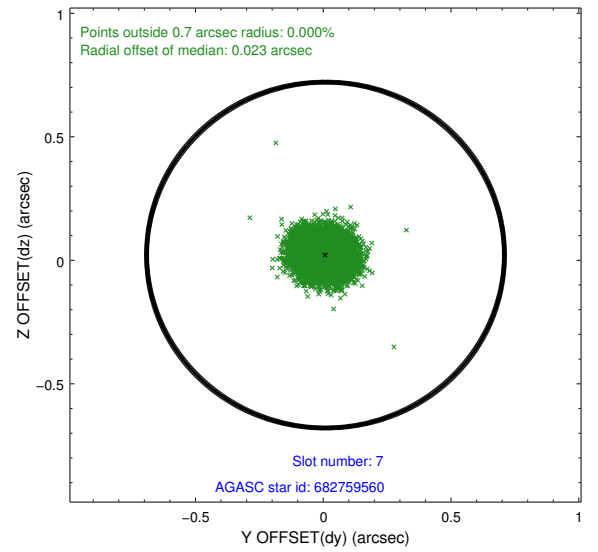
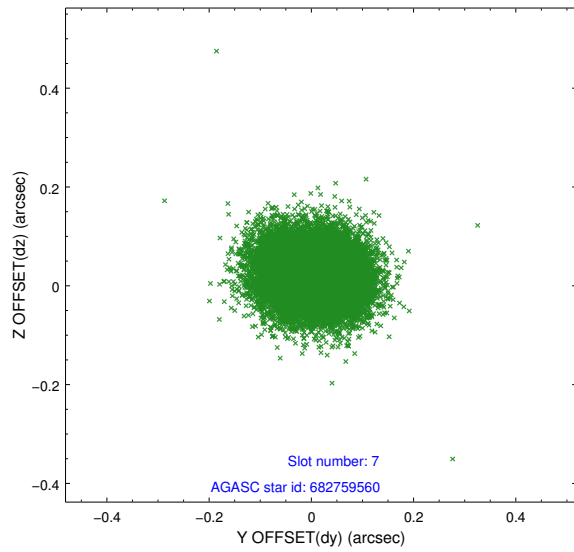
2.4.3 Slot 5



2.4.4 Slot 6

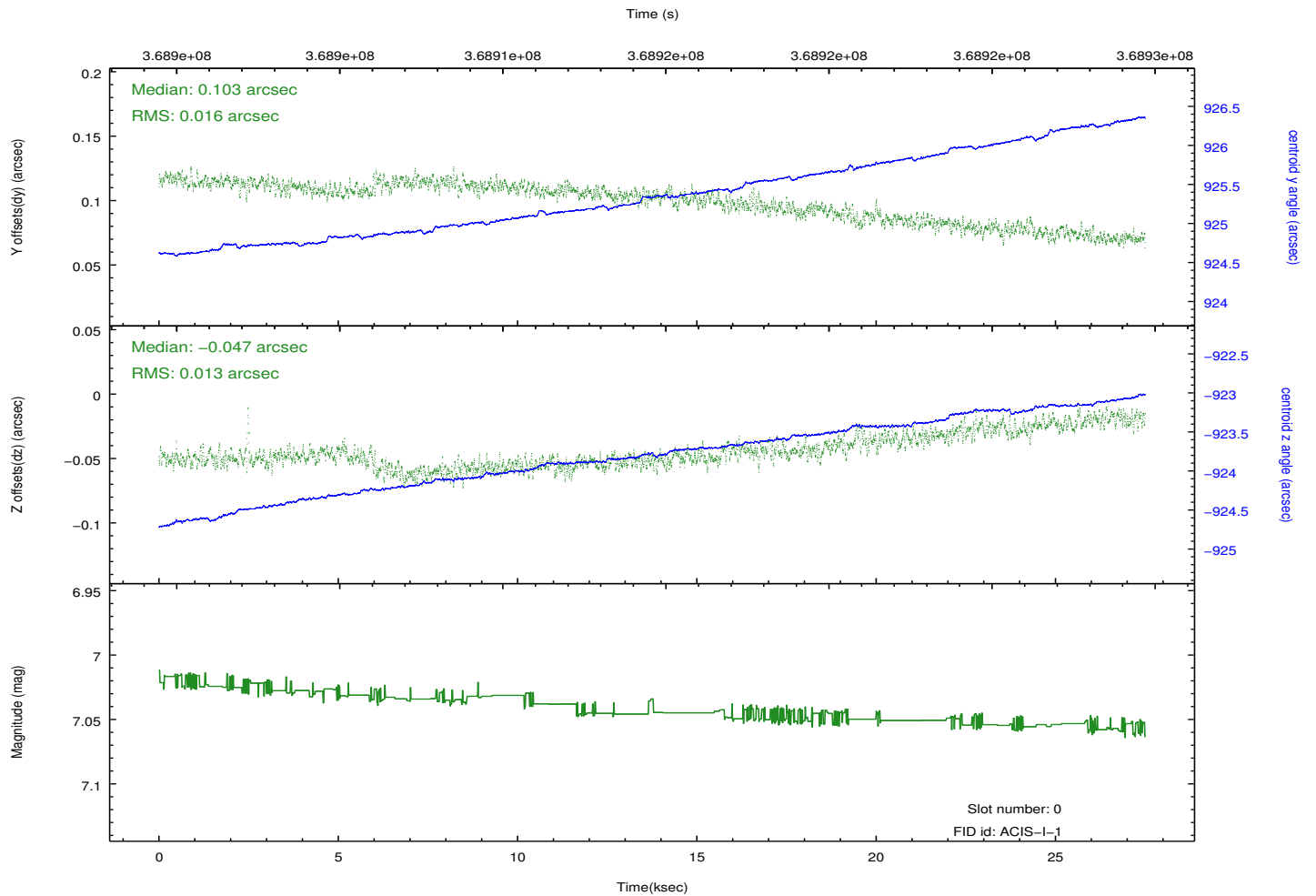
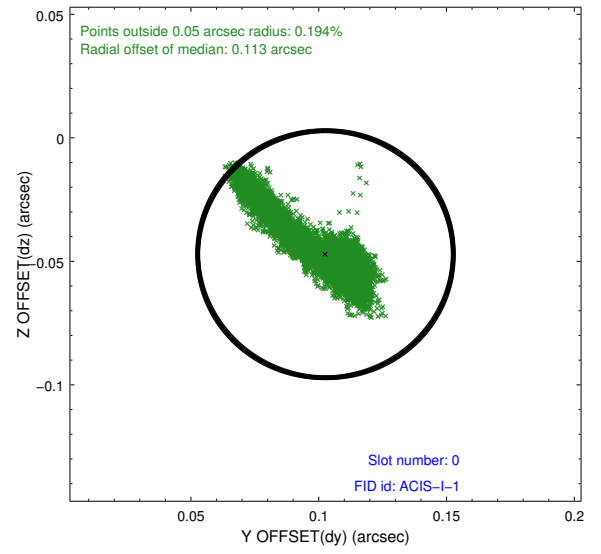
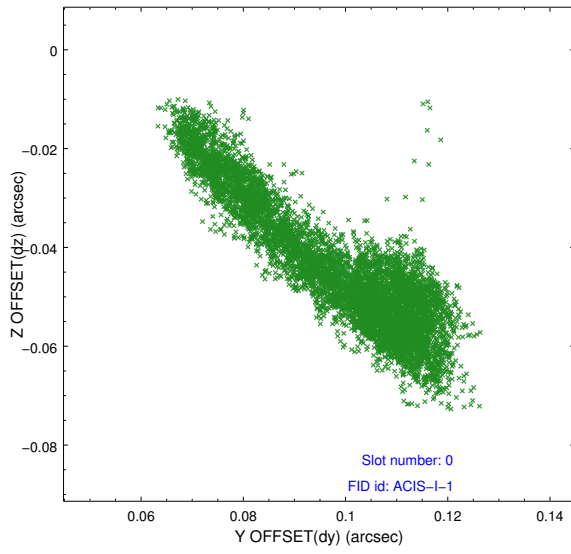


2.4.5 Slot 7

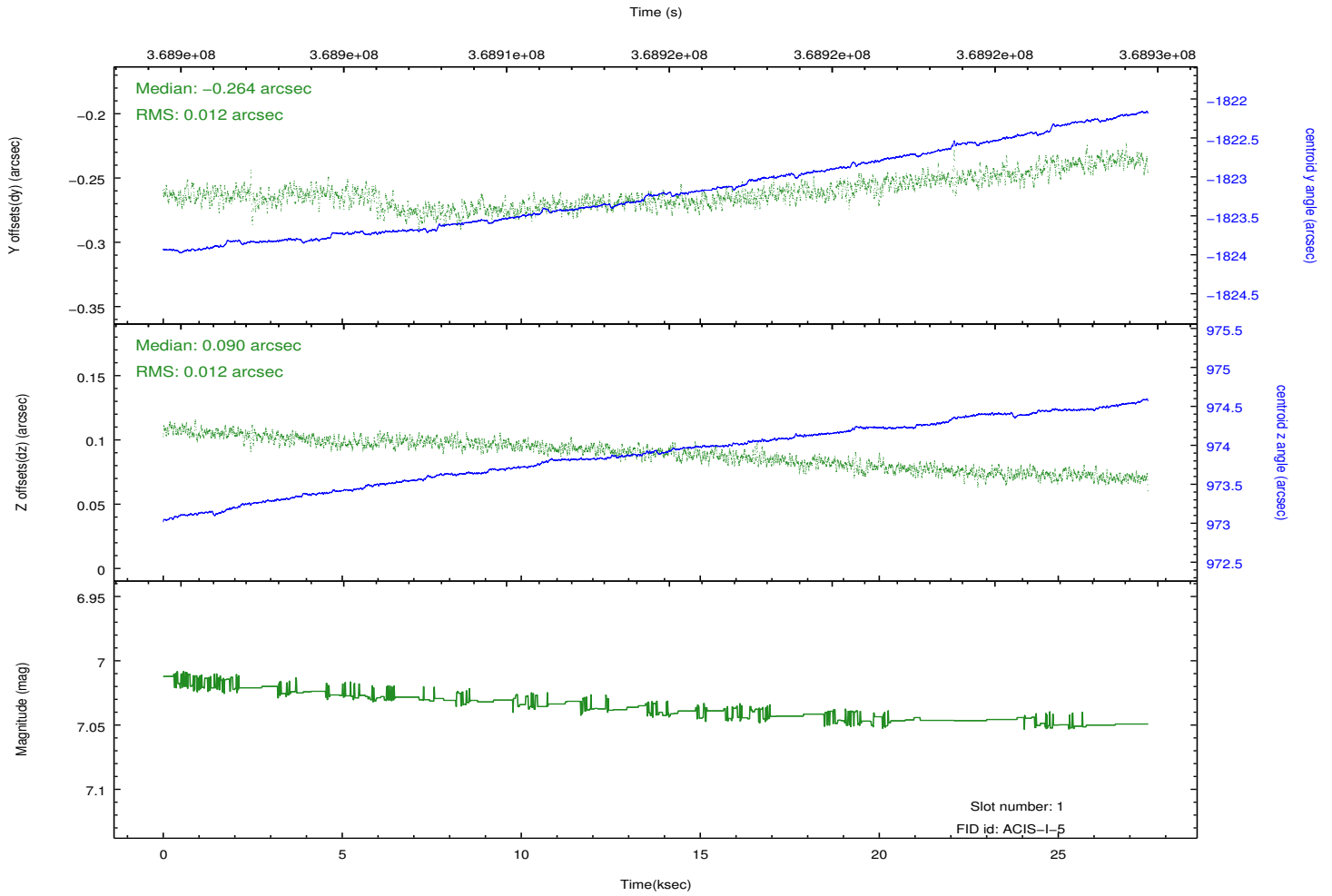
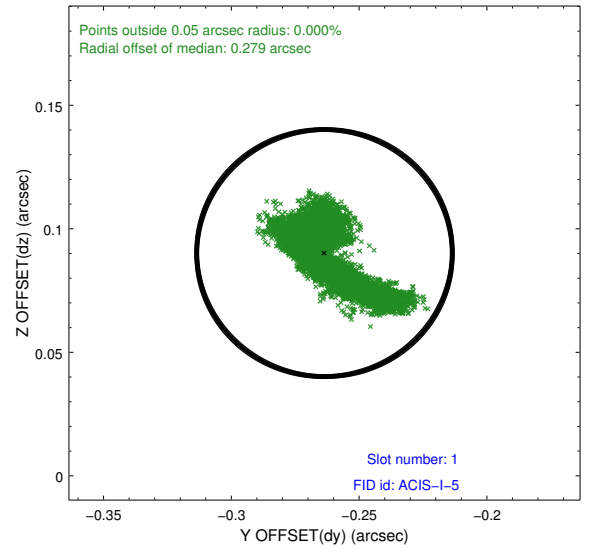
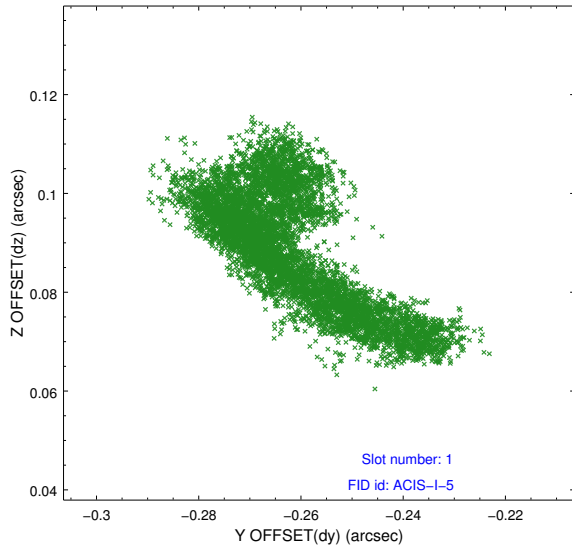


2.5 FID Slots

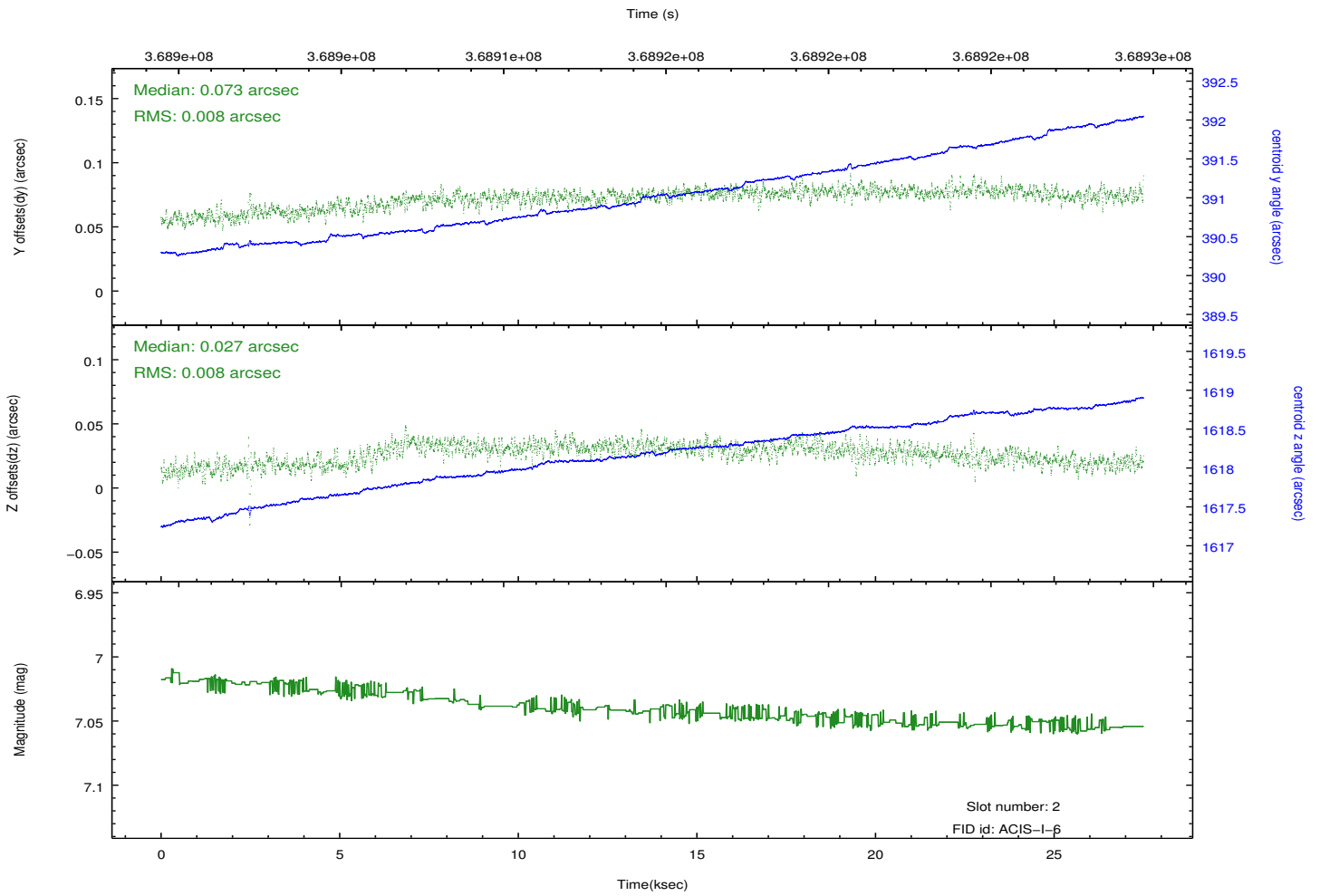
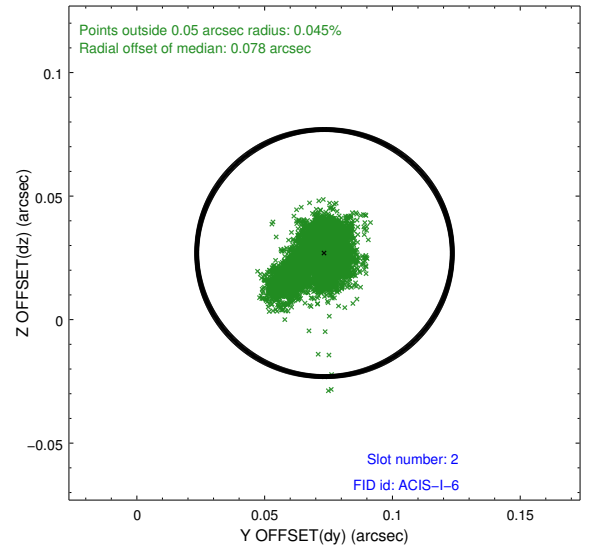
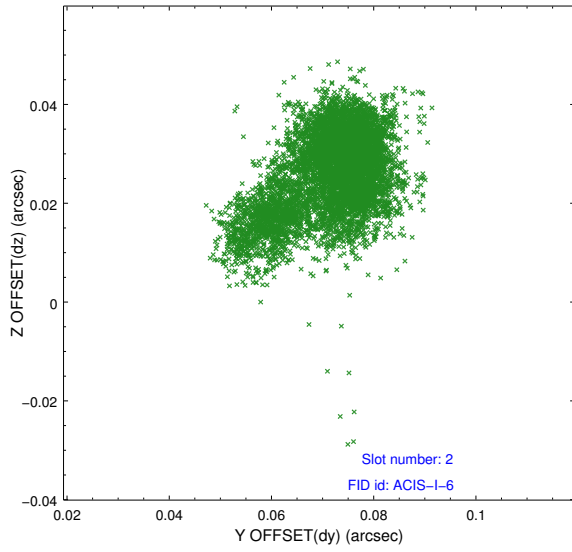
2.5.1 Slot 0



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)	2012.06.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.028777147055

A.2 Comments