

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 7703 - L2 Version 3
Chandra X-Ray Center

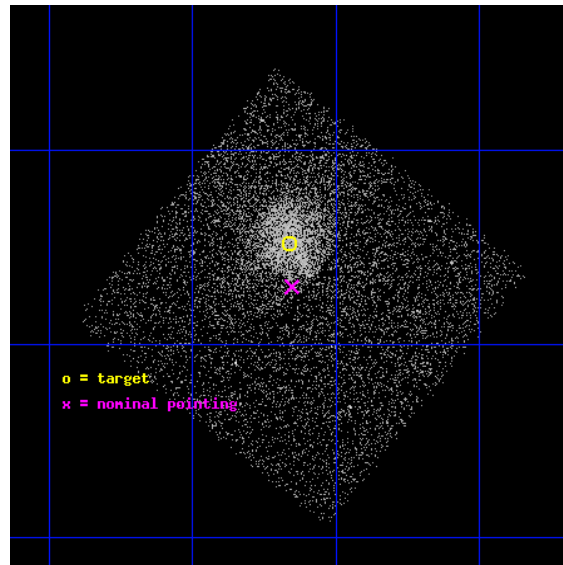
L2 Processing Date : Apr 16 2012

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

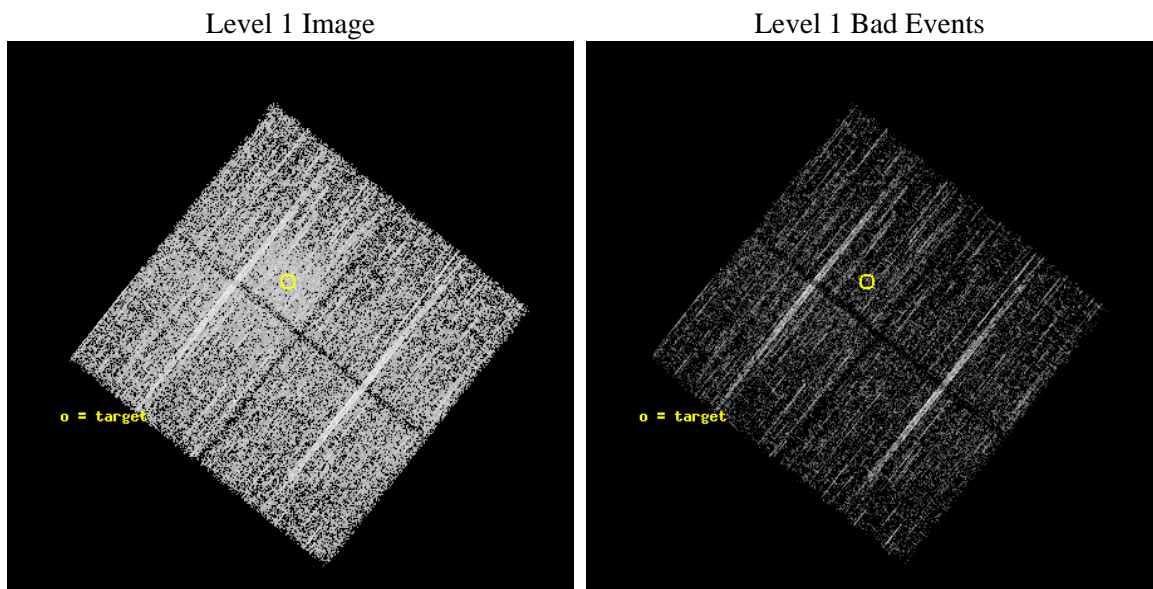
seq_num	701371	Sequence number
obs_id	7703	Observation id
title	Snapshot Survey for X-ray Outbursts in Rich Clusters of Galaxies	P
observer	Professor Gordon Garmire	Principal investigator
object	ABELL520	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	73.540833	Observer's specified target RA [deg]
dec_targ	2.92	Observer's specified target Dec [deg]
ra_nom	73.53855601973	Nominal RA [deg]
dec_nom	2.8827389578423	Nominal Dec [deg]
roll_nom	308.6994938645	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5148.422409296	Sum of GTIs [s]
livetime	5081.1544803051	Livetime [s]
ontime0	5151.4402894378	Sum of GTIs [s]
ontime1	5151.4813294411	Sum of GTIs [s]
ontime2	5151.5223694444	Sum of GTIs [s]
ontime3	5148.422409296	Sum of GTIs [s]
l2events	13763	Number of level 2 events



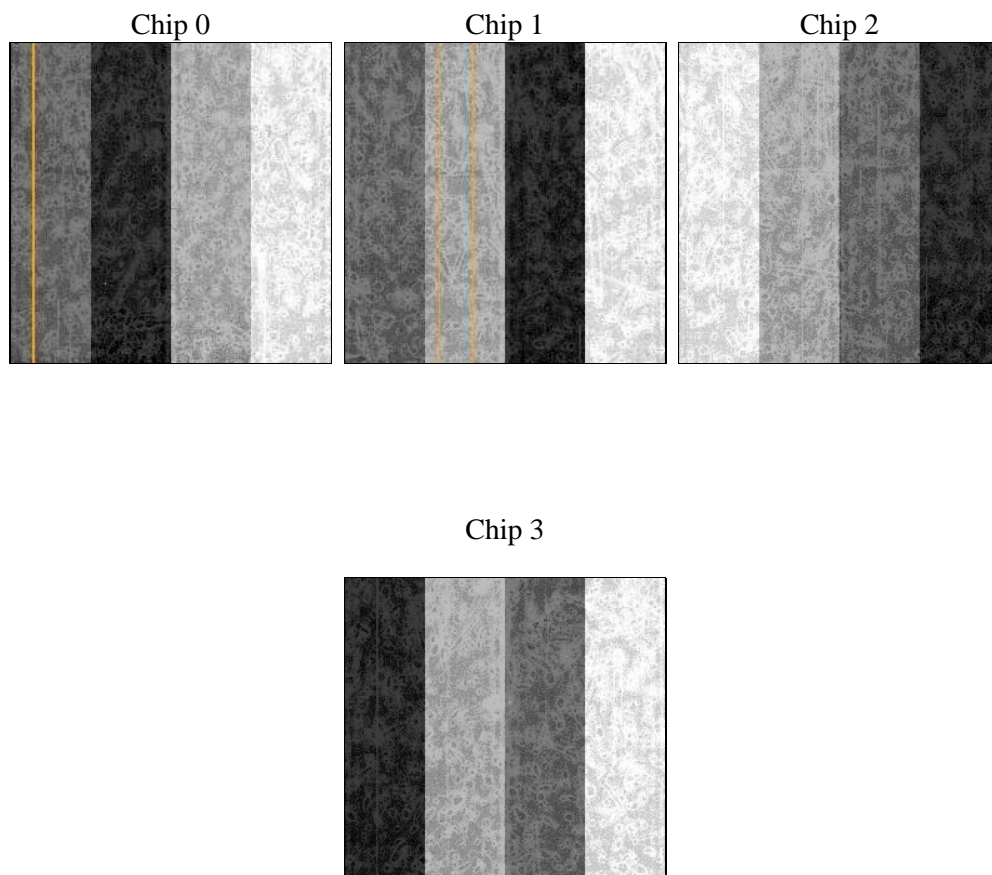
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	5148.422409296	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	5151.4402894378	Sum of GTIs [s]
date	2012-04-16T13:14:48	Date and time of file creation	ontime1	5151.4813294411	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	5151.5223694444	Sum of GTIs [s]
			ontime3	5148.422409296	Sum of GTIs [s]
			l1events	137452	Number of level 1 events

2.1.4 Events

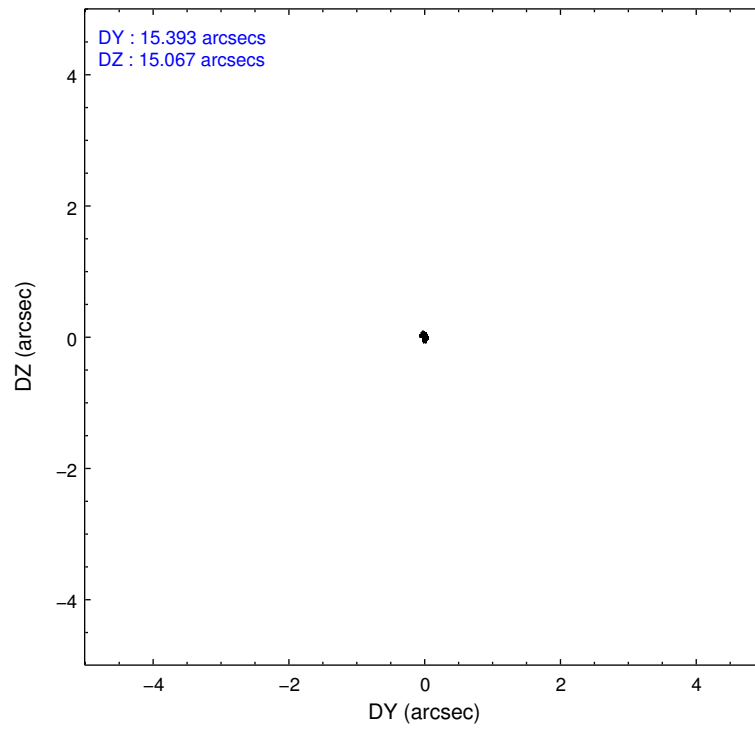
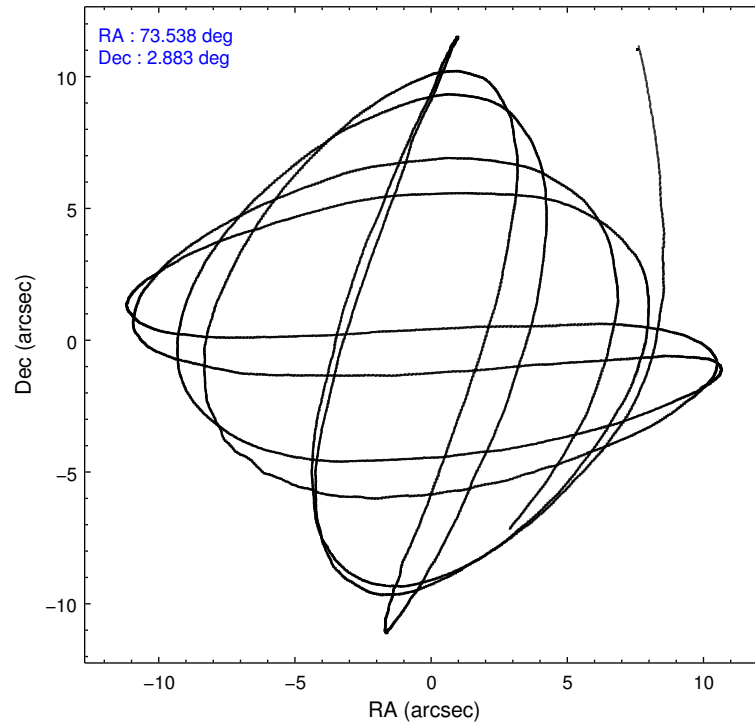
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	31318	31433	37284	37417
rejected events	28350	28156	34027	30455
rejected %	90%	89%	91%	81%

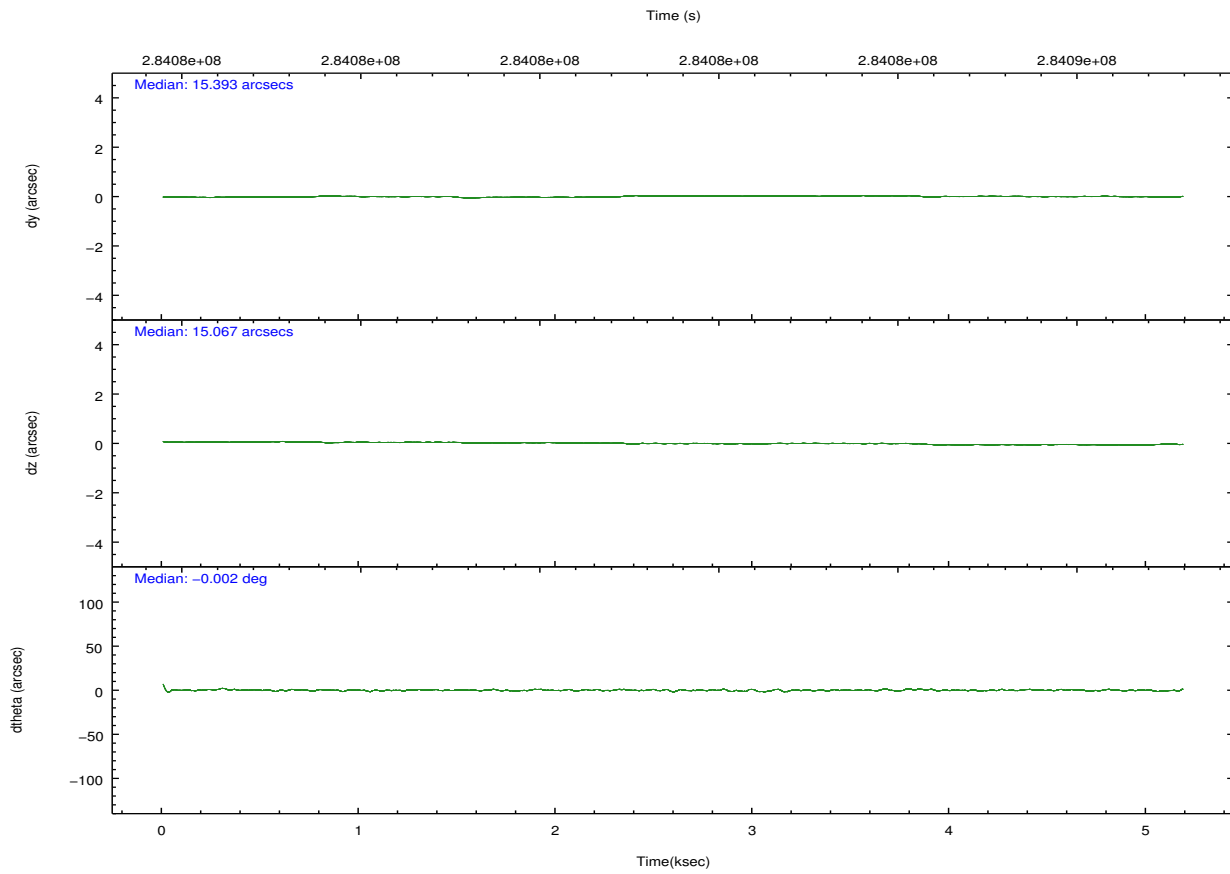
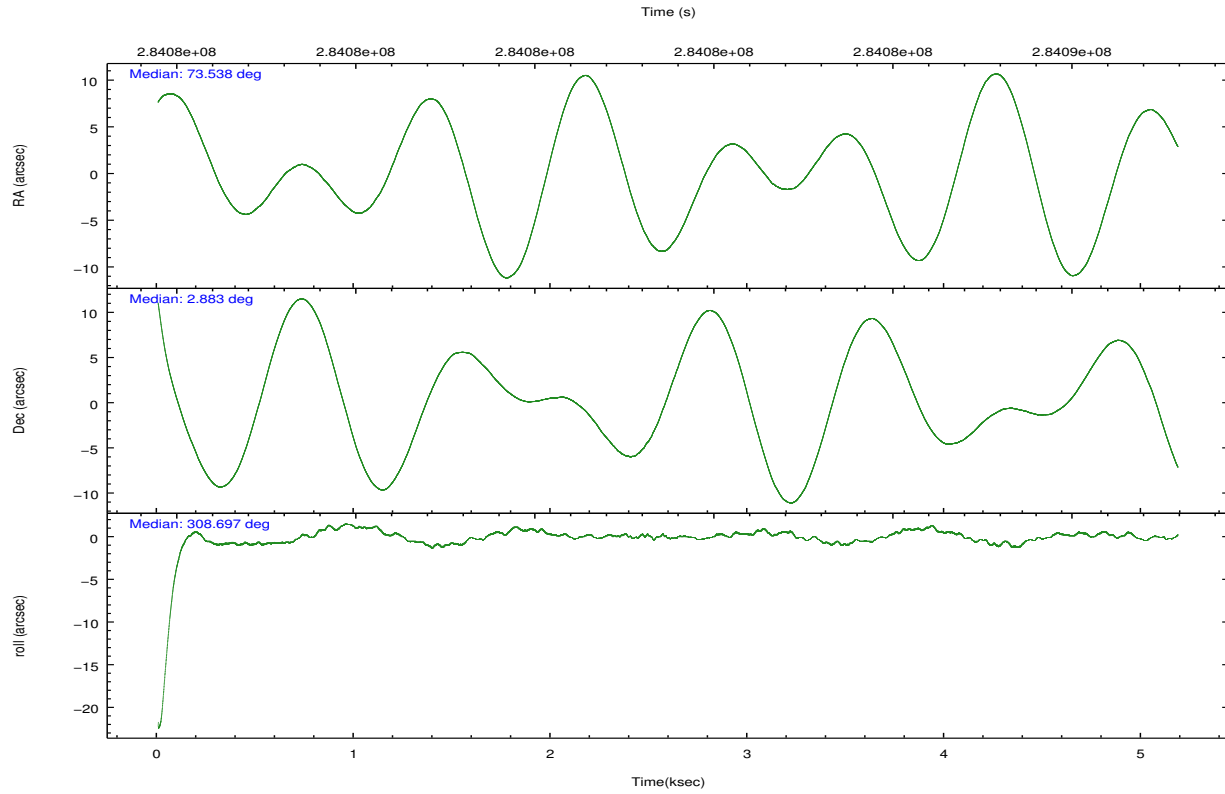
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1221	1423	1518	4636
	3%	4%	4%	12%
grade 1 events	21	19	19	44
	0%	0%	0%	0%
grade 2 events	715	662	684	954
	2%	2%	1%	2%
grade 3 events	312	384	325	426
	0%	1%	0%	1%
grade 4 events	317	346	318	430
	1%	1%	0%	1%
grade 5 events	506	623	526	669
	1%	1%	1%	1%
grade 6 events	406	471	414	522
	1%	1%	1%	1%
grade 7 events	27820	27505	33480	29736
	88%	87%	89%	79%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	73.512762	73.53855601973021	Subarray requested	NONE	NONE
[deg] Pointing Dec	2.892591	2.882738957842318	Alternating exposures requested	N	N
[deg] Pointing Roll	308.492146	308.6994938644978	[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)	284081343.184000	284080363.54656			
Observation start date	2007-01-01T23:27:58	2007-01-01T23:12:43			
[s] Observation end time (MET)	284086343.184000	284087583.6469			
Observation end date	2007-01-02T00:51:18	2007-01-02T01:13:03			
Read mode	TIMED	TIMED			

2.3 Aspect



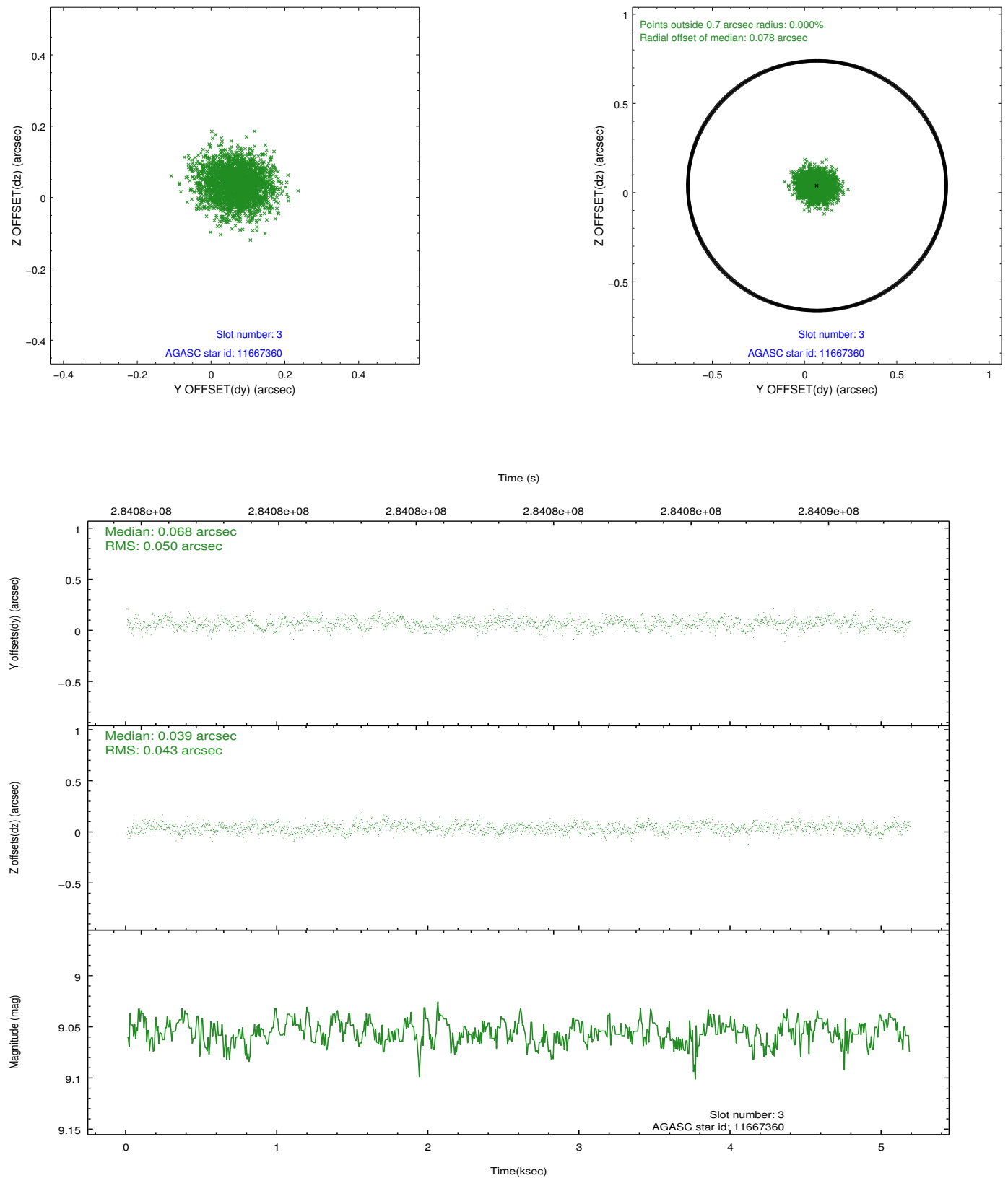


Slot Statistics

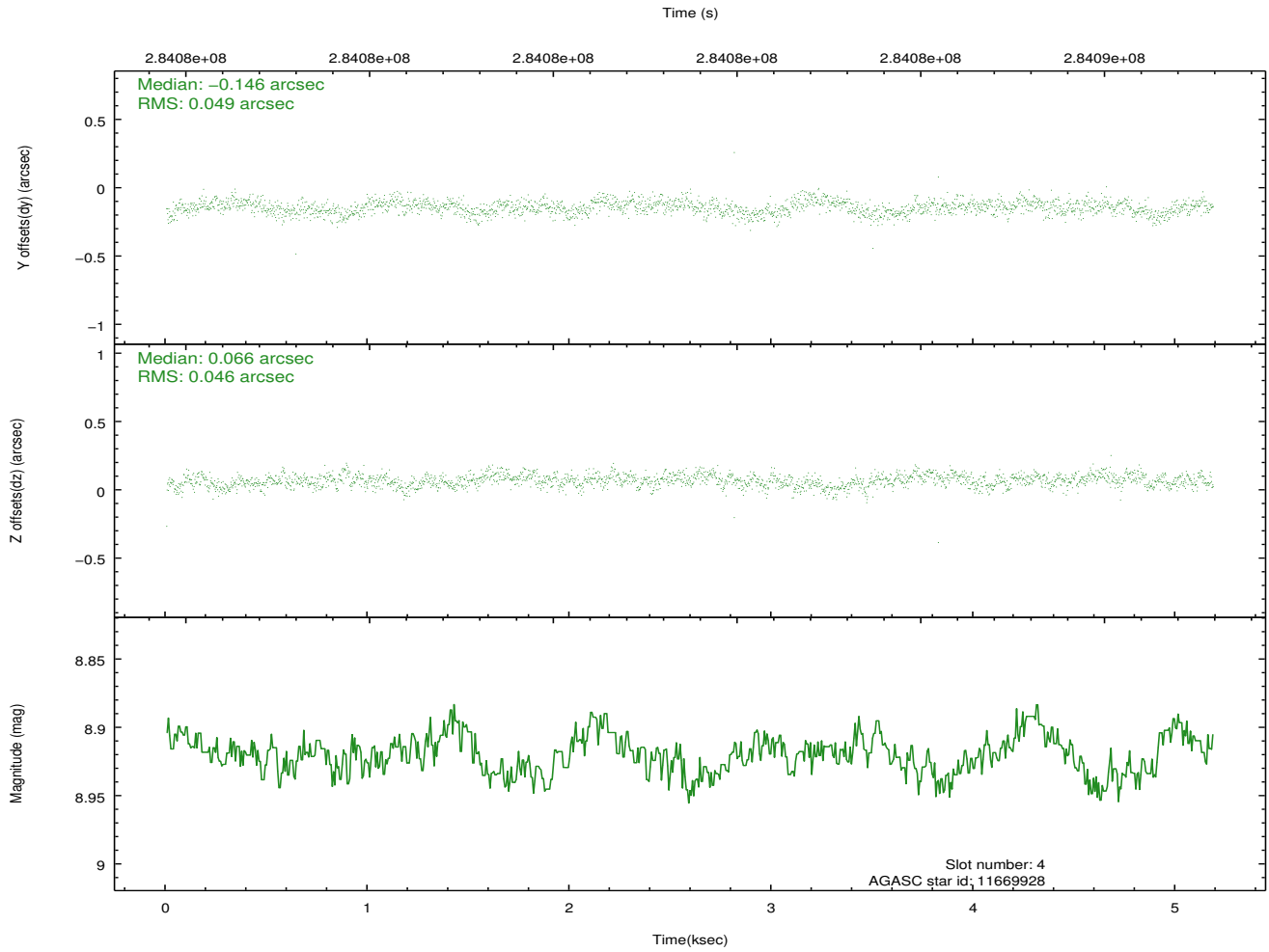
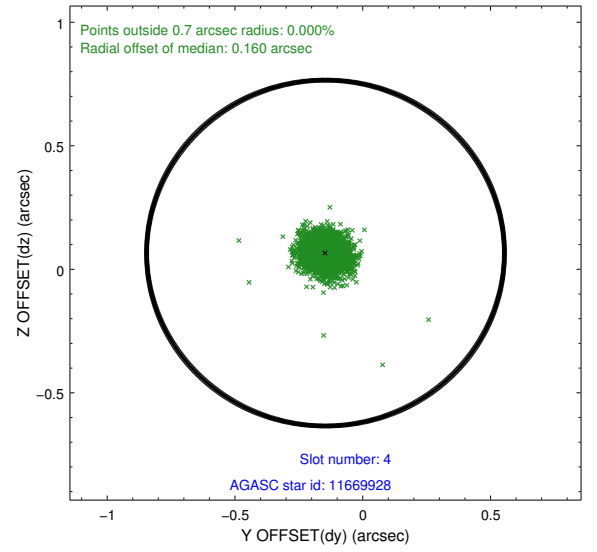
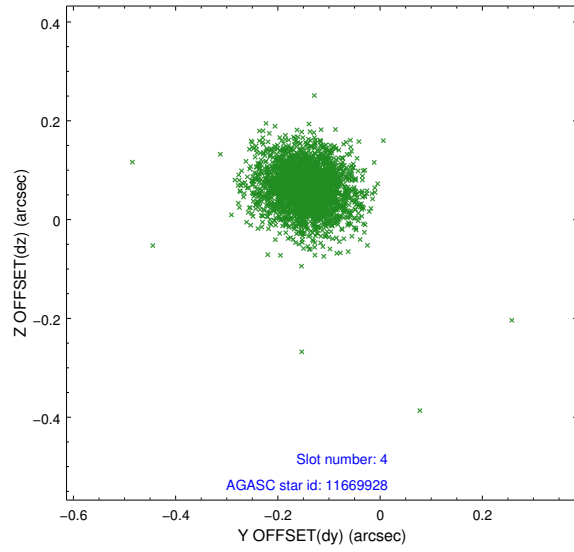
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	1264	-0.074	-0.085	0.008	0.014	0.000000	0.000000	-770.19	-845.11
1	FID	ACIS-I-4	7.17	1264	0.200	0.070	0.006	0.010	0.000000	0.000000	2143.61	1060.62
2	FID	ACIS-I-5	7.22	1265	-0.226	0.084	0.008	0.014	0.000000	0.000000	-1822.67	1059.81
3	GUIDE	11667360	9.06	2527	0.068	0.039	0.071	0.114	73.657776	2.357171	1833.62	-791.49
4	GUIDE	11669928	8.92	2529	-0.146	0.066	0.068	0.114	73.336883	3.436182	-1924.35	722.95
5	GUIDE	11671056	8.75	2529	0.054	-0.020	0.068	0.110	73.483760	3.096575	-640.17	375.61
6	GUIDE	11676640	7.62	2529	0.017	-0.016	0.052	0.087	74.238422	2.780087	1940.62	1790.79
7	GUIDE	11666968	8.95	2524	0.006	-0.063	0.077	0.121	73.353686	2.574659	540.76	-1159.56

2.4 Star Slots

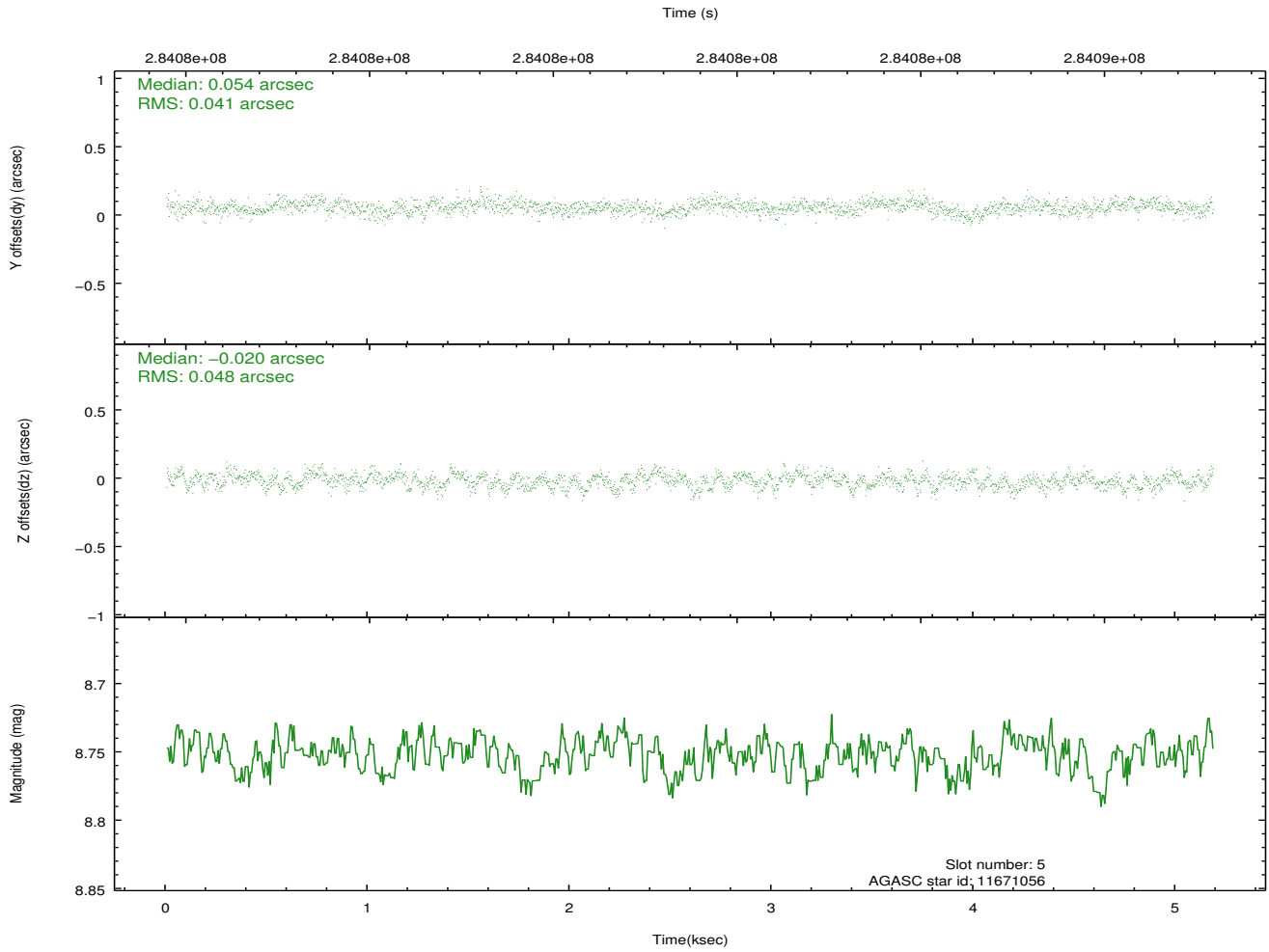
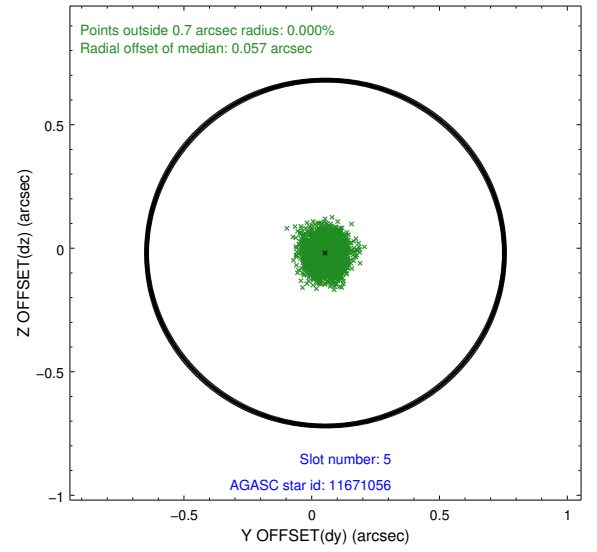
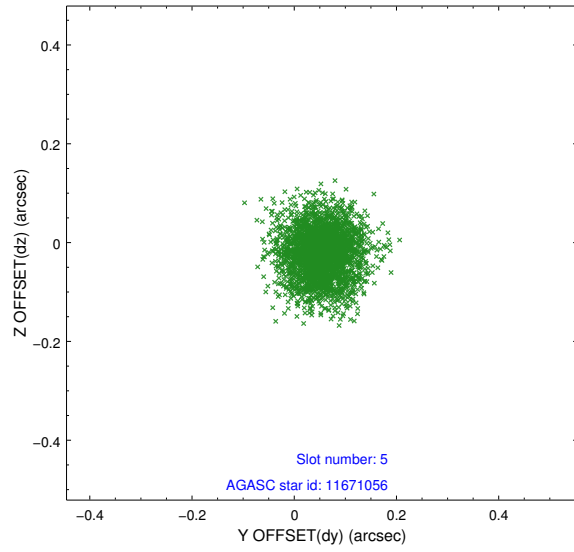
2.4.1 Slot 3



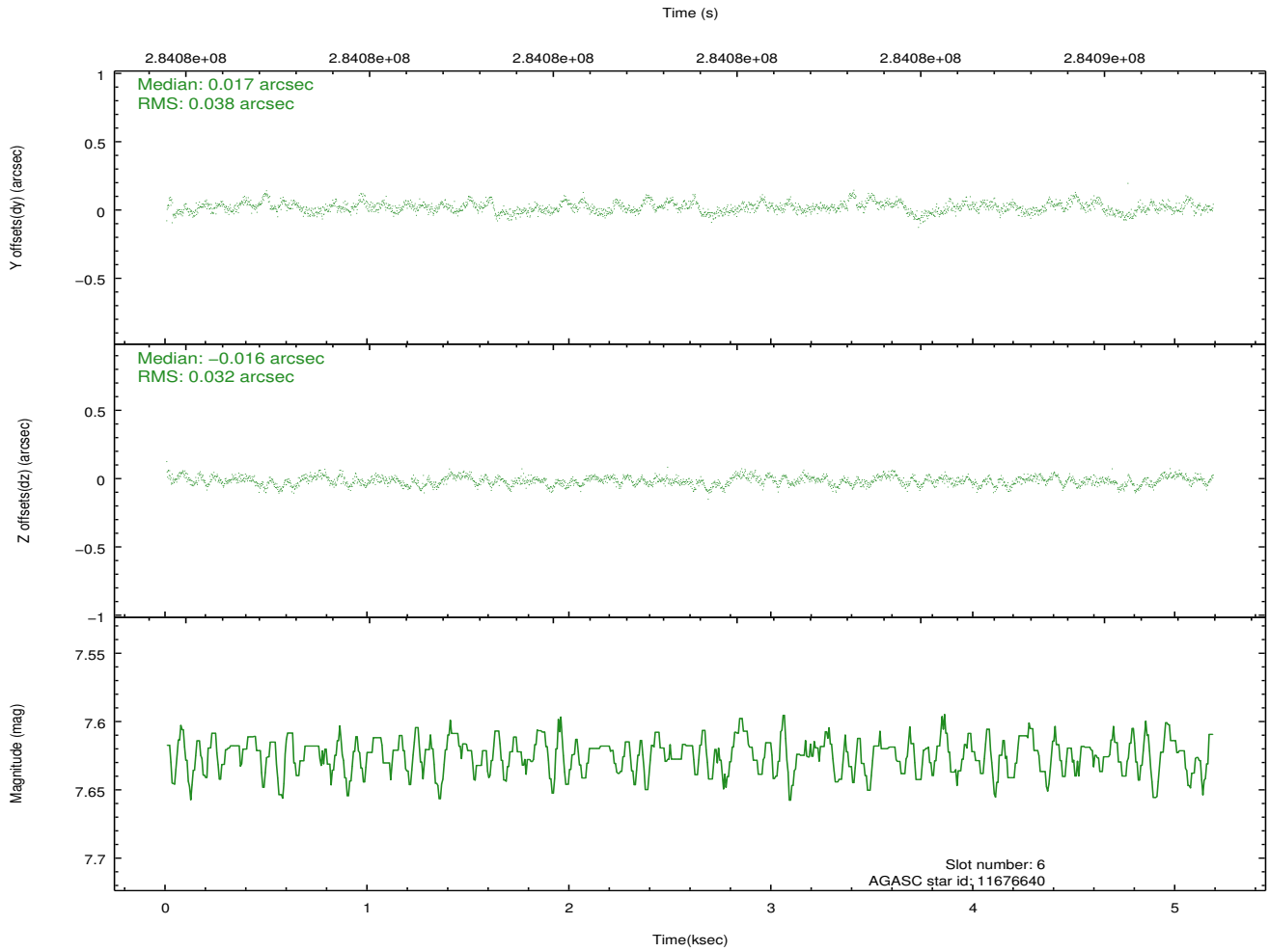
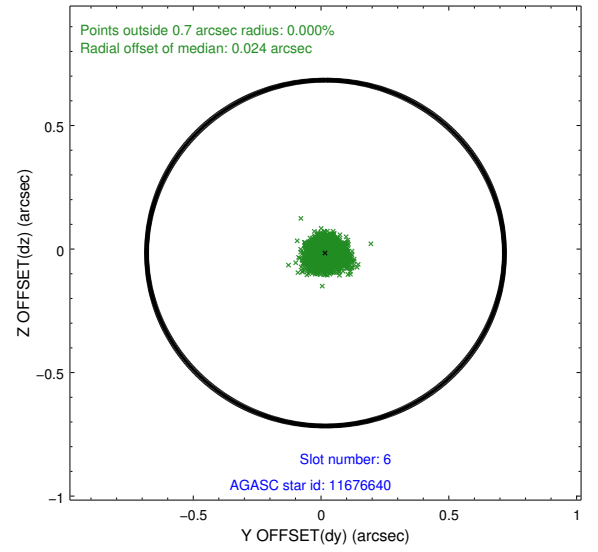
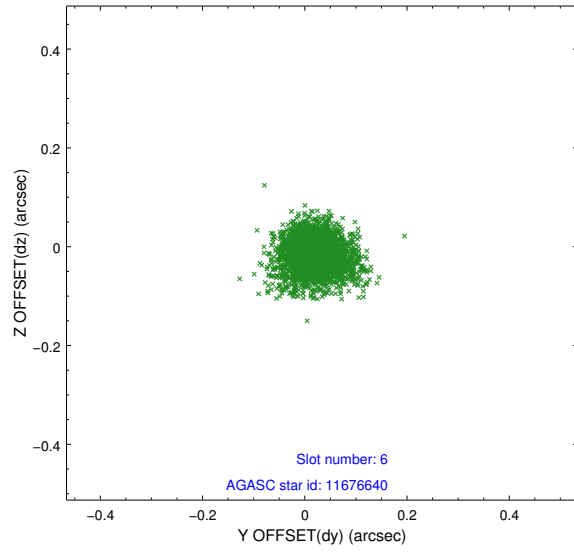
2.4.2 Slot 4



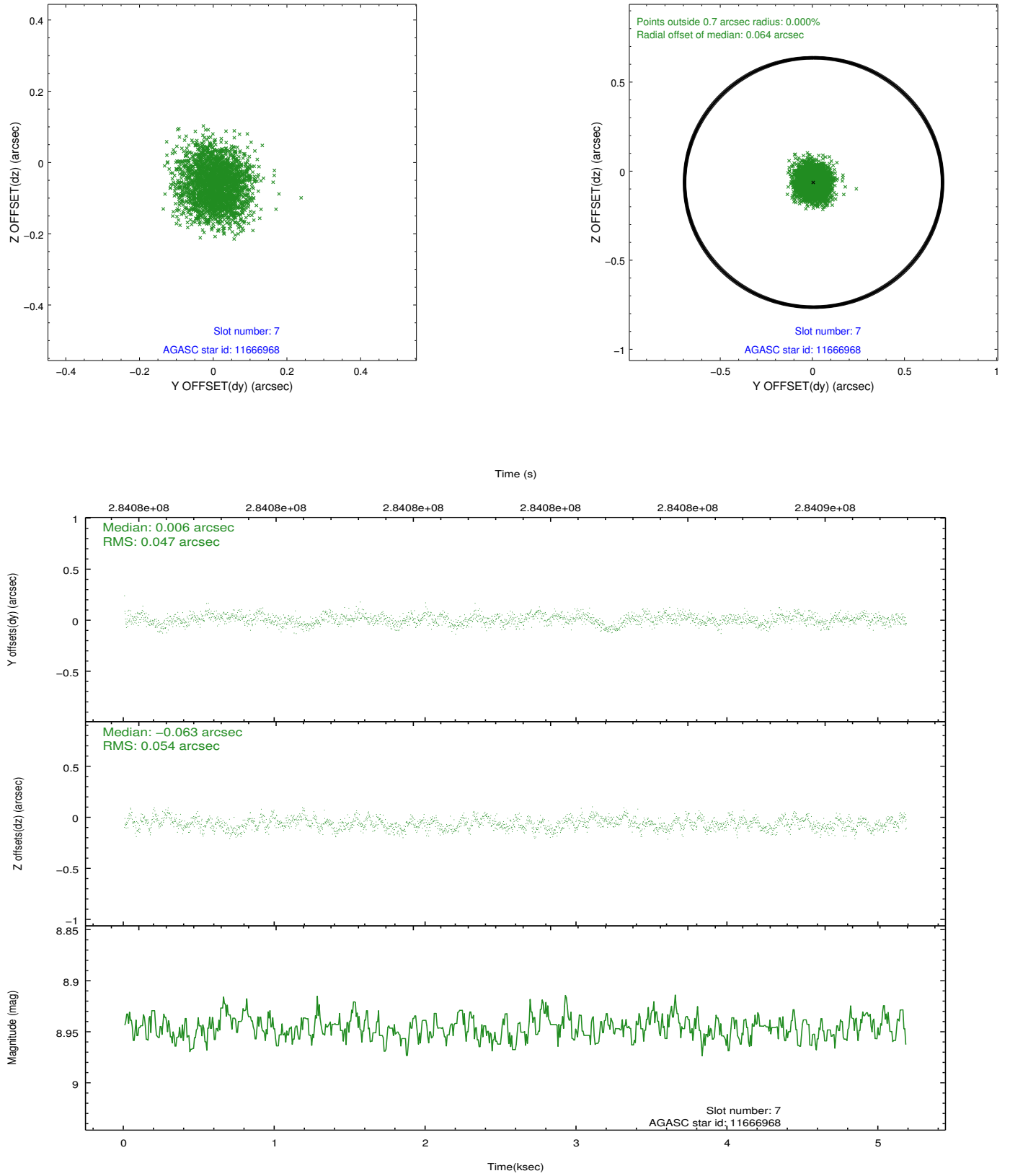
2.4.3 Slot 5



2.4.4 Slot 6

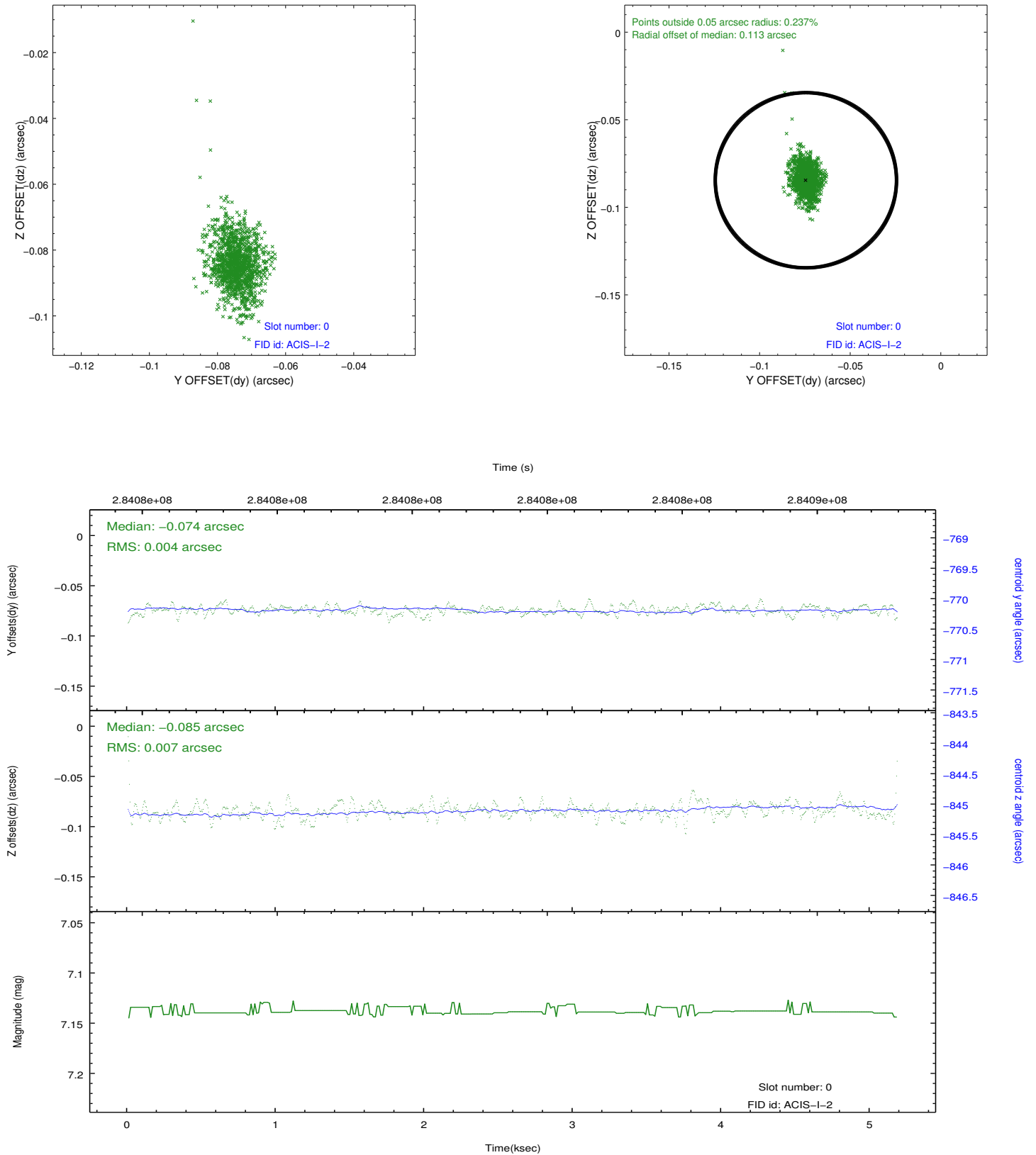


2.4.5 Slot 7

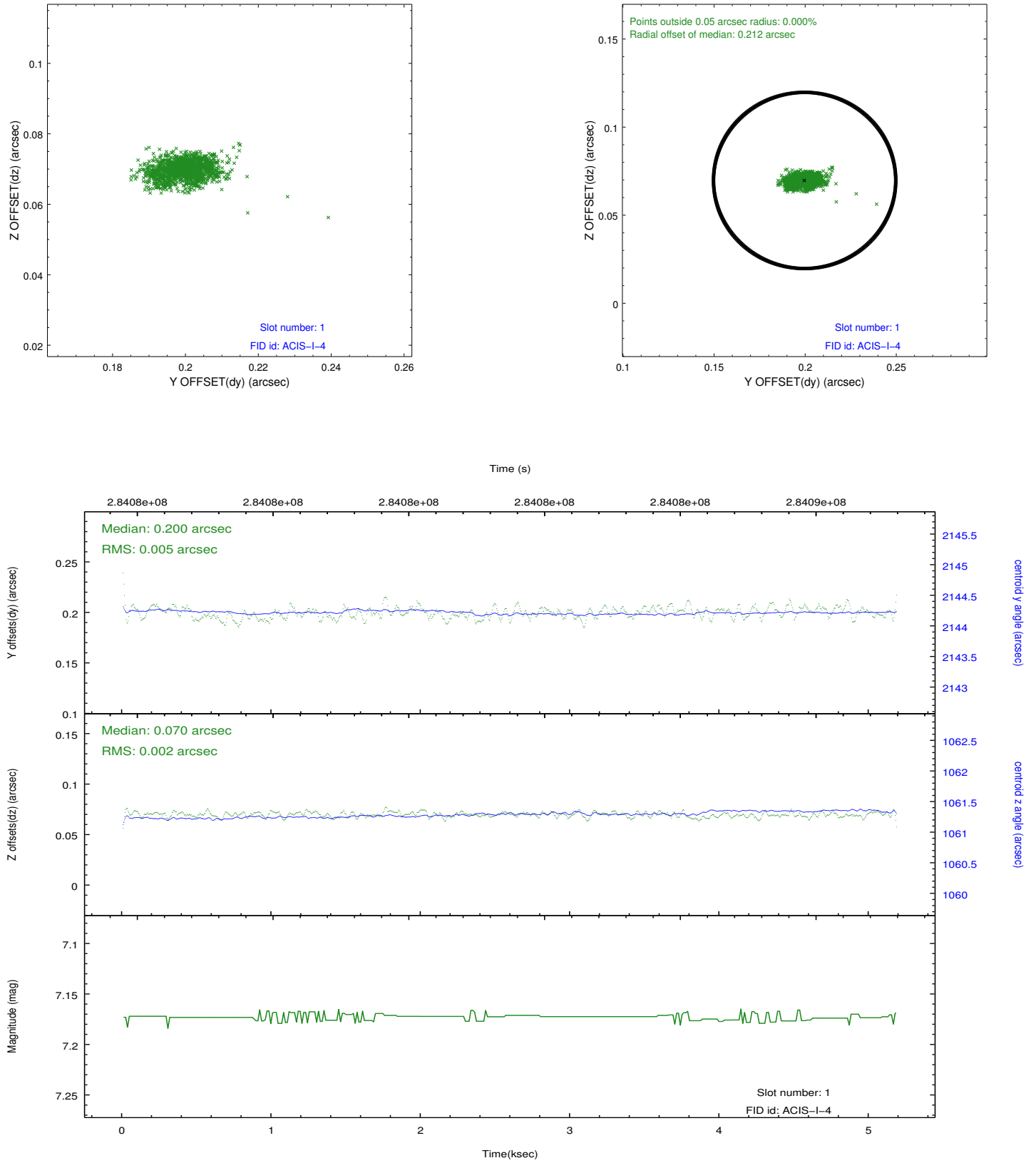


2.5 FID Slots

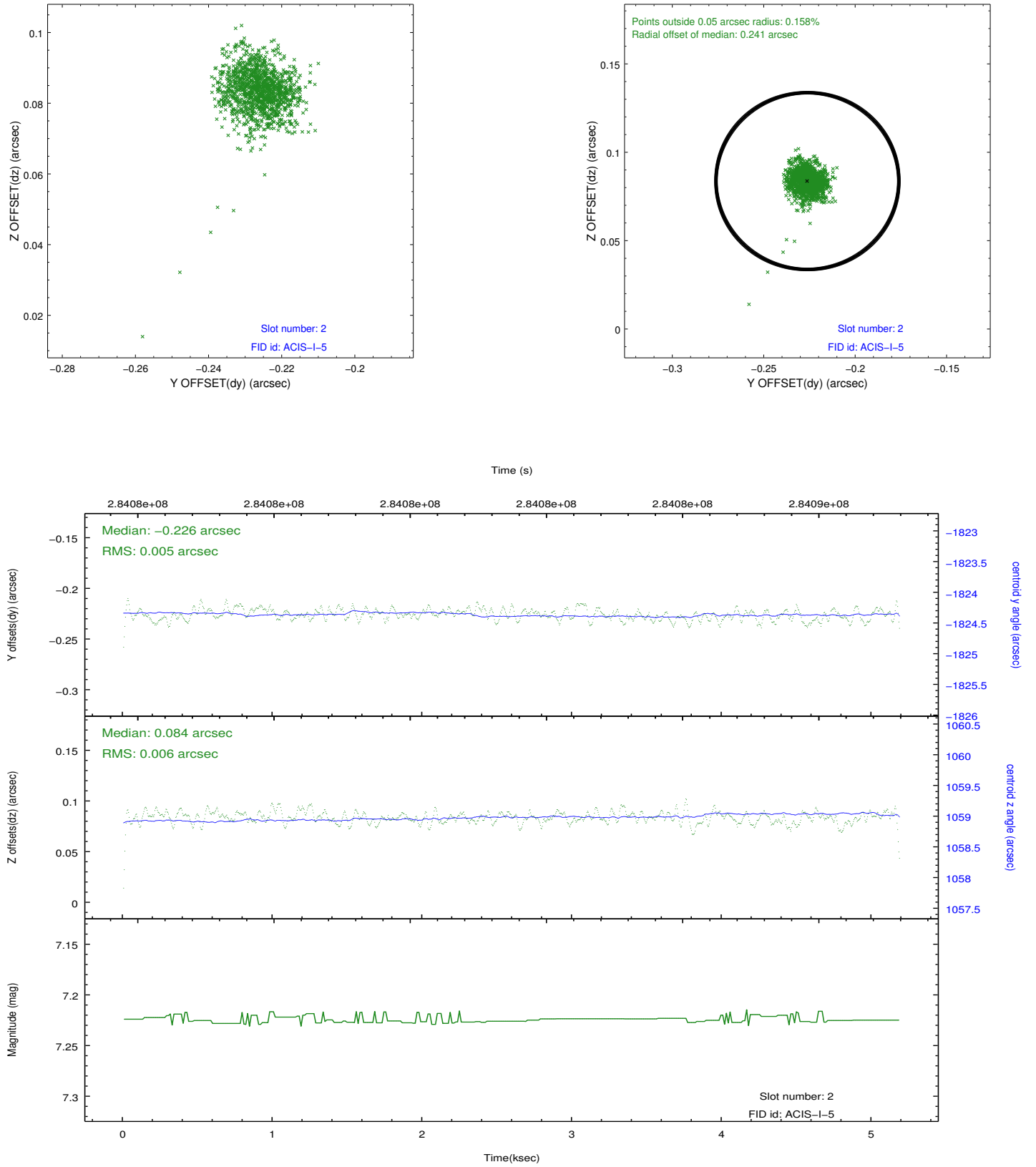
2.5.1 Slot 0



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)	2012.04.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.14905903

A.2 Comments