

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 17741 - L2 Version 1
Chandra X-Ray Center

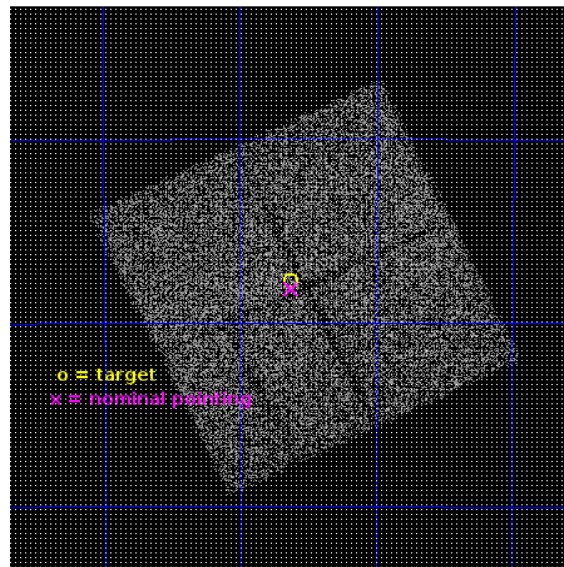
L2 Processing Date : Jul 8 2016

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1 Front

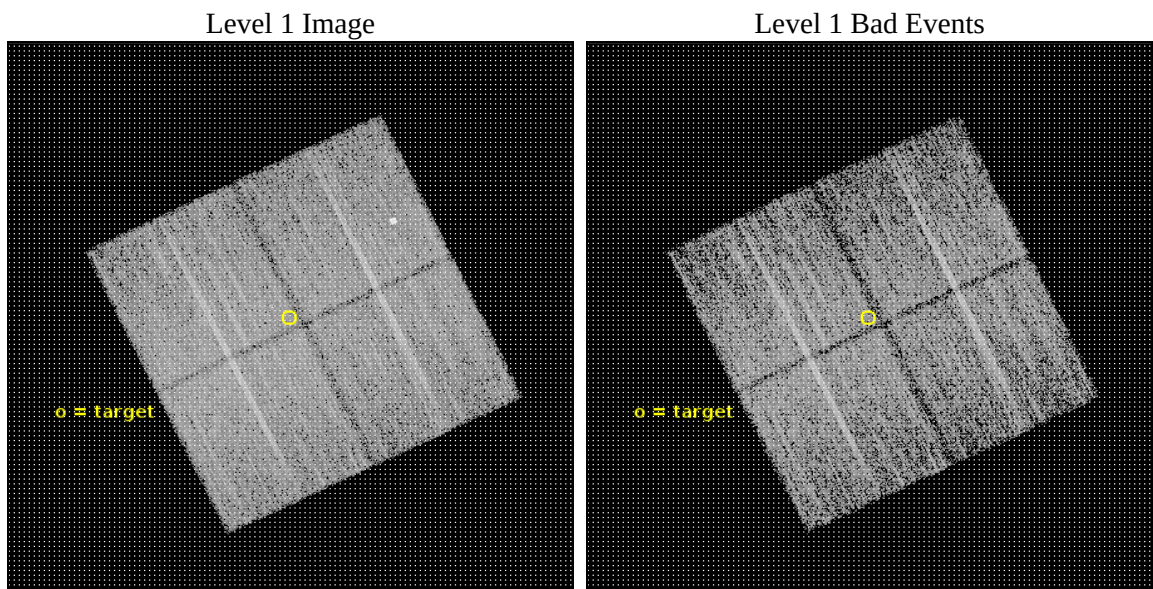
seq_num	201050	Sequence number
obs_id	17741	Observation id
title	Multiplicity in Massive Stars: Tightening the Limits	Proposal titl
observer	Nancy Evans	Principal investigator
object	R Cru	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	185.907083	Observer's specified target RA [deg]
dec_targ	-61.629139	Observer's specified target Dec [deg]
ra_nom	185.90606236582	Nominal RA [deg]
dec_nom	-61.635885908208	Nominal Dec [deg]
roll_nom	244.20777764103	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15074.881010771	Sum of GTIs [s]
livetime	14877.916592399	Livetime [s]
ontime0	15077.898920894	Sum of GTIs [s]
ontime1	15077.939960837	Sum of GTIs [s]
ontime2	15077.9810009	Sum of GTIs [s]
ontime3	15074.881010771	Sum of GTIs [s]
l2events	33377	Number of level 2 events



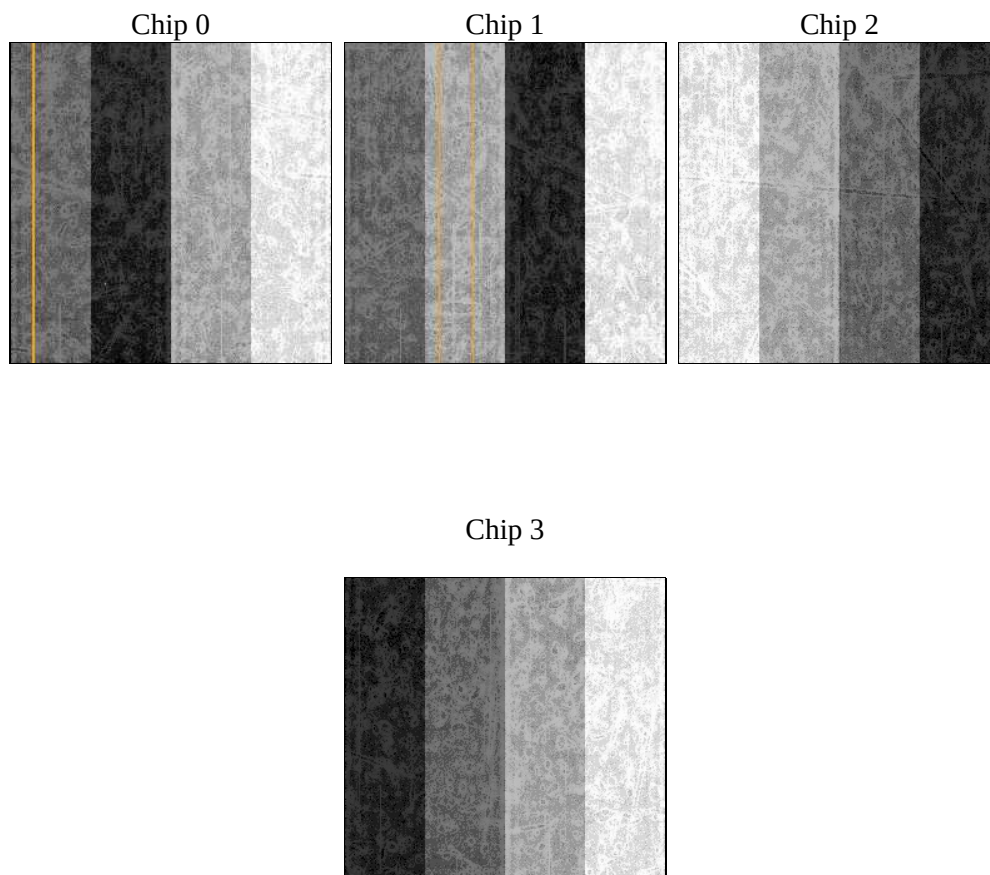
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	15074.881010771	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	15077.898920894	Sum of GTIs [s]
date	2016-07-09T01:08:31	Date and time of file creation	ontime1	15077.939960837	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	15077.9810009	Sum of GTIs [s]
			ontime3	15074.881010771	Sum of GTIs [s]
			l1events	360275	Number of level 1 events

2.1.4 Events

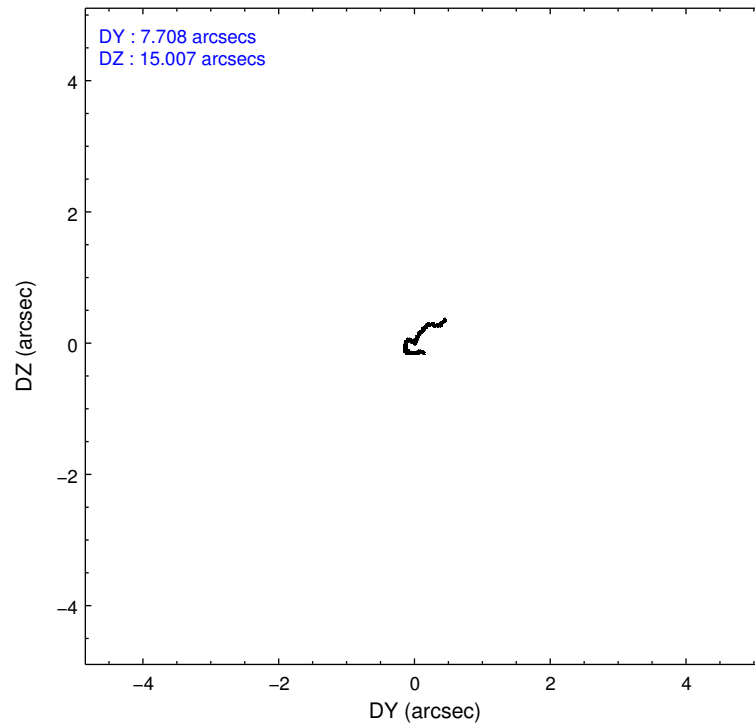
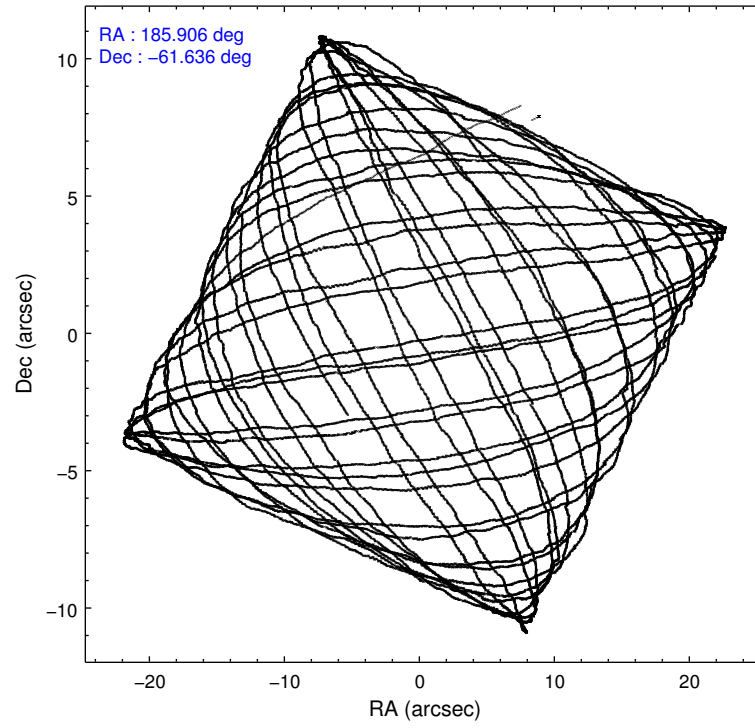
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	86169	87044	94155	92907
rejected events	76048	74375	84243	83235
rejected %	88%	85%	89%	89%

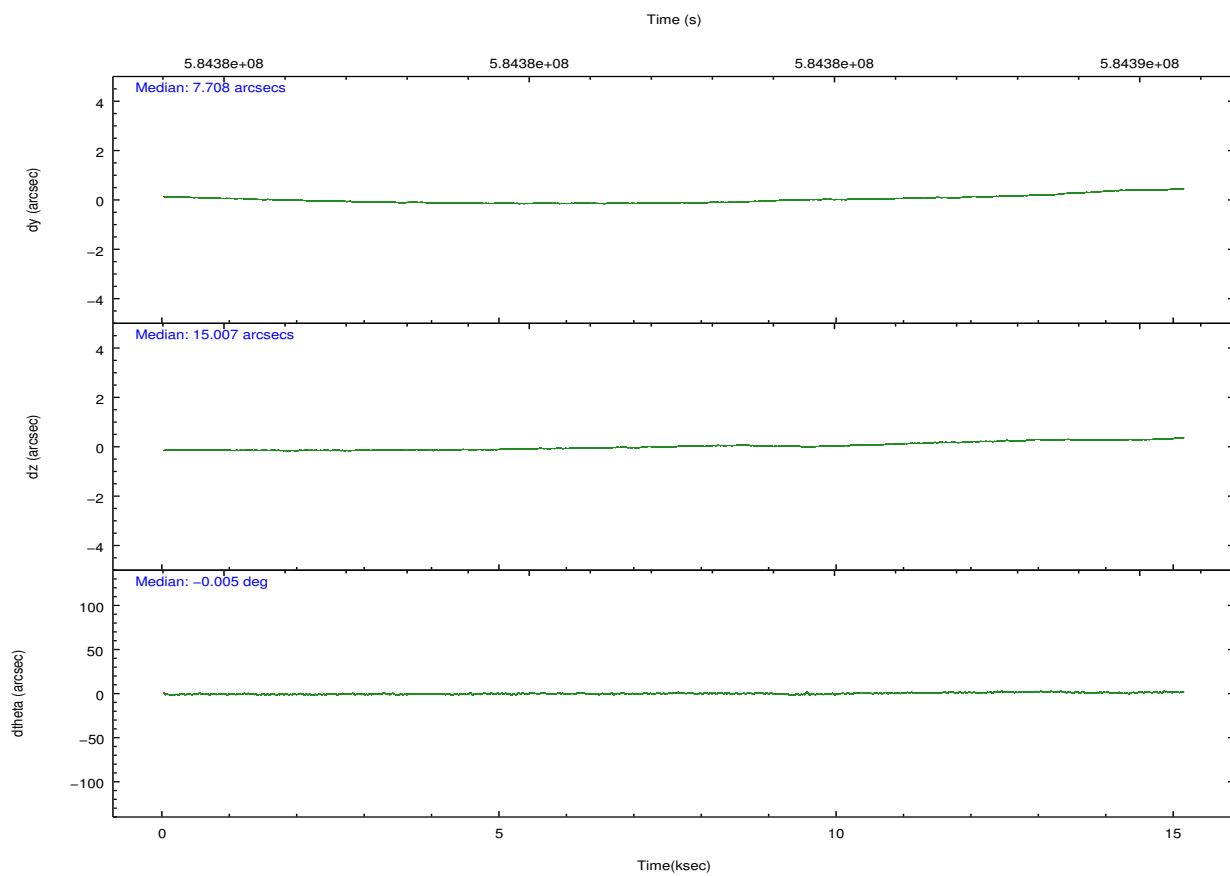
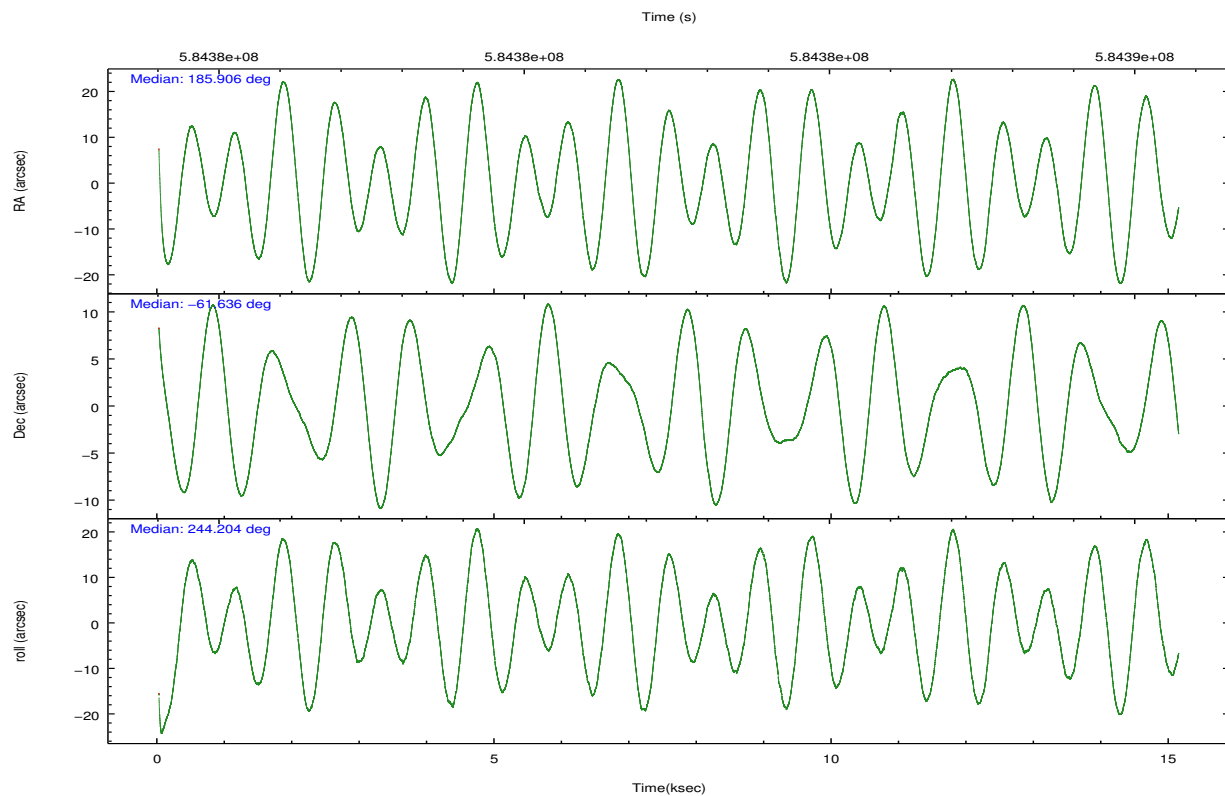
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	3782	5653	3841	3684
	4%	6%	4%	3%
grade 1 events	43	51	51	59
	0%	0%	0%	0%
grade 2 events	2475	2618	2343	2079
	2%	3%	2%	2%
grade 3 events	995	1053	923	1060
	1%	1%	0%	1%
grade 4 events	984	1022	954	1007
	1%	1%	1%	1%
grade 5 events	3257	3472	3049	3683
	3%	3%	3%	3%
grade 6 events	1891	2329	1855	1844
	2%	2%	1%	1%
grade 7 events	72742	70846	81139	79491
	84%	81%	86%	85%

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	185.901650	185.9060623658219	Subarray requested	NONE	NONE
[deg] Pointing Dec	-61.608372	-61.63588590820837	Alternating exposures requested	N	N
[deg] Pointing Roll	243.995226	244.2077776410278	[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)	584374940.184000	584373694.91032			
Observation start date	2016-07-08T14:21:12	2016-07-08T14:01:34			
[s] Observation end time (MET)	584389940.184000	584390614.07379			
Observation end date	2016-07-08T18:31:12	2016-07-08T18:43:34			
Read mode	TIMED	TIMED			

2.3 Aspect



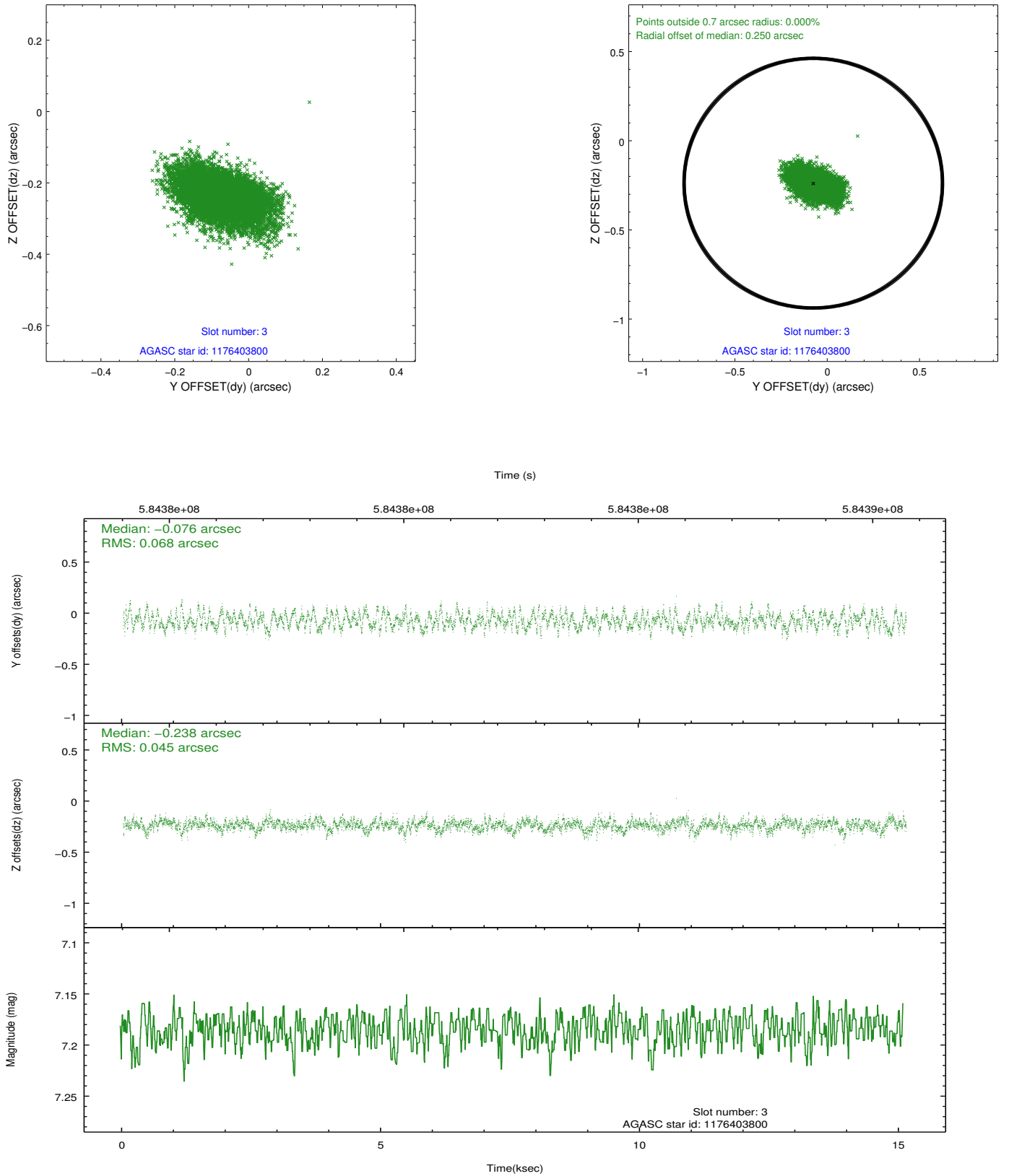


Slot Statistics

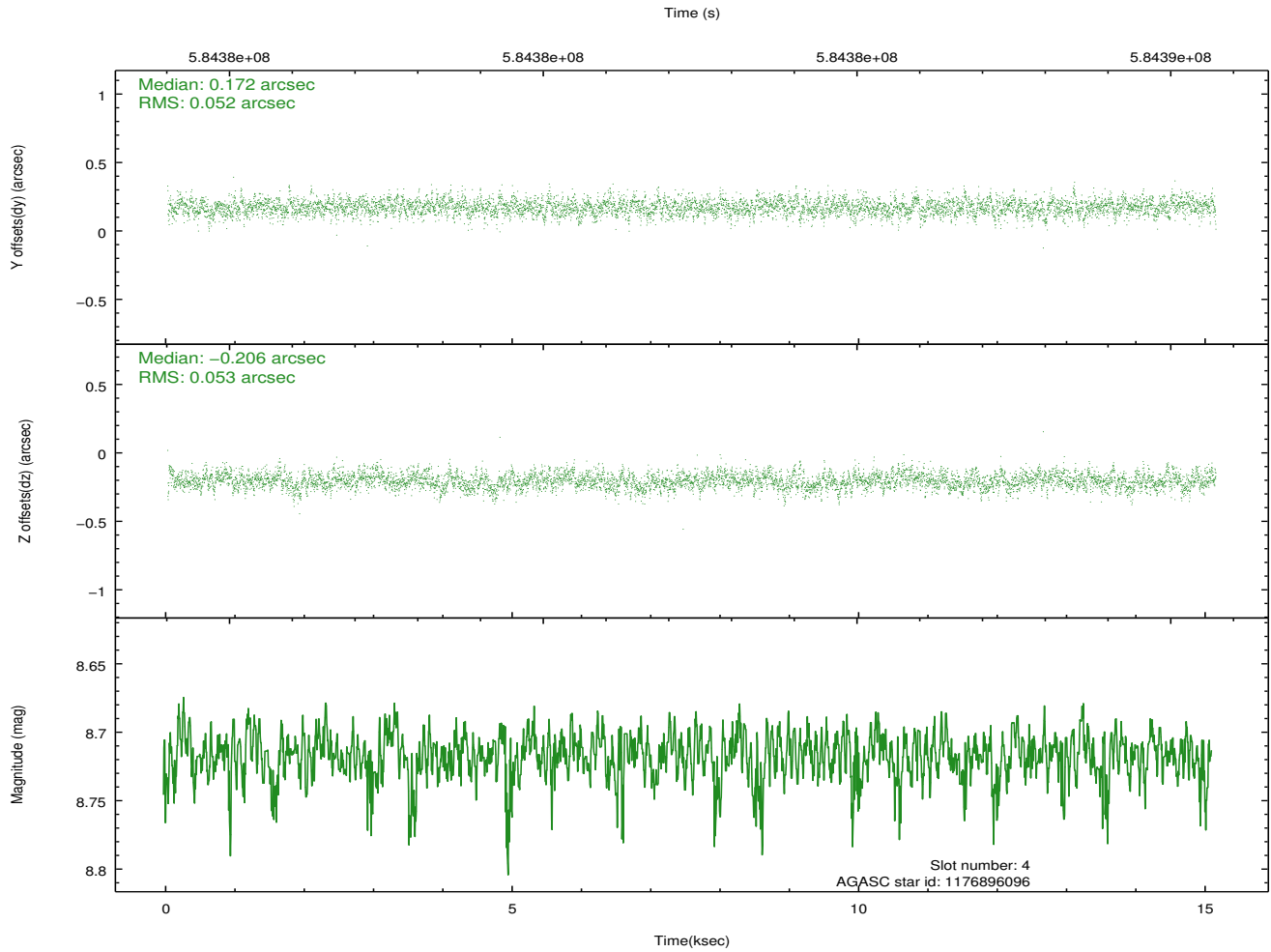
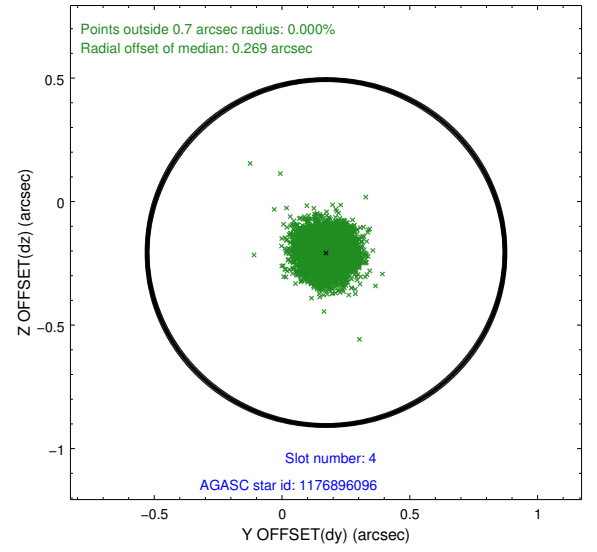
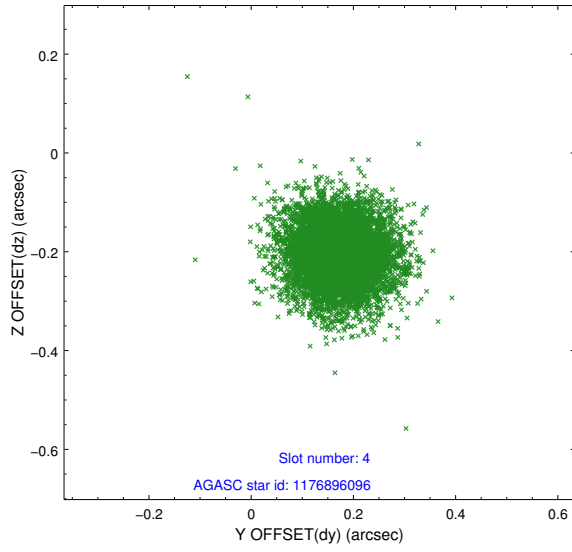
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	3690	0.185	-0.035	0.010	0.017	0.000000	0.000000	932.15	-838.63
1	FID		ACIS-I-2	7.16	3689	-0.104	-0.080	0.015	0.030	0.000000	0.000000	-762.06	-845.34
2	FID		ACIS-I-5	7.23	3690	-0.174	0.188	0.011	0.018	0.000000	0.000000	-1816.70	1058.80
3	GUIDE	used	1176403800	7.19	7379	-0.076	-0.238	0.085	0.145	186.760662	-61.385228	-1362.62	983.02
4	GUIDE	used	1176896096	8.72	7374	0.172	-0.206	0.078	0.130	185.653077	-62.215982	2149.58	584.81
5	GUIDE	used	1176903120	8.22	7376	-0.099	-0.078	0.069	0.114	186.056854	-62.258063	1988.55	1259.76
6	GUIDE	used	1176384448	8.15	7376	0.181	0.252	0.080	0.132	184.797867	-61.136340	-671.03	-2461.27
7	GUIDE	used	1176402288	8.66	7372	-0.183	0.270	0.113	0.187	187.652855	-61.399078	-1963.19	2398.63

2.4 Star Slots

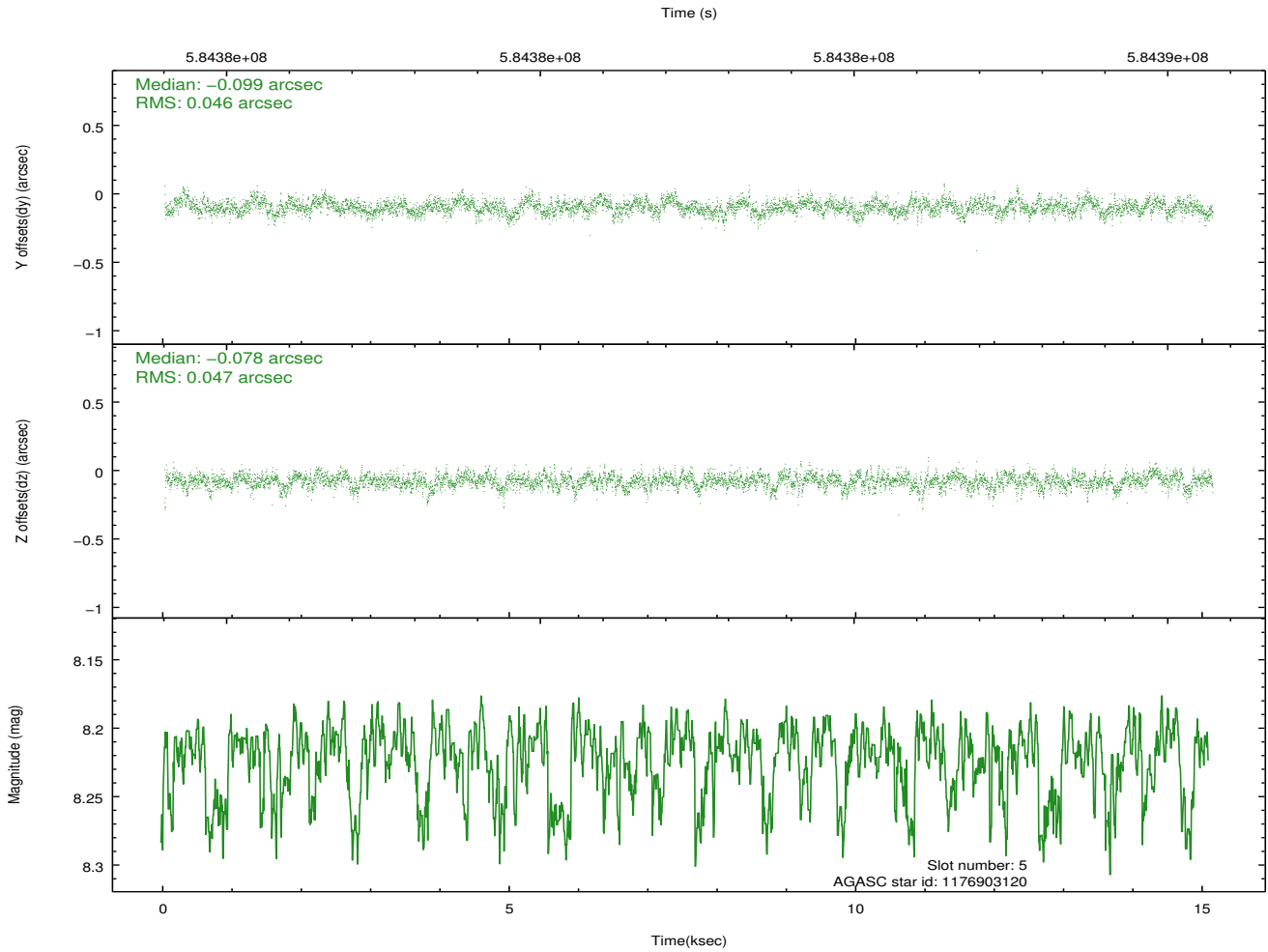
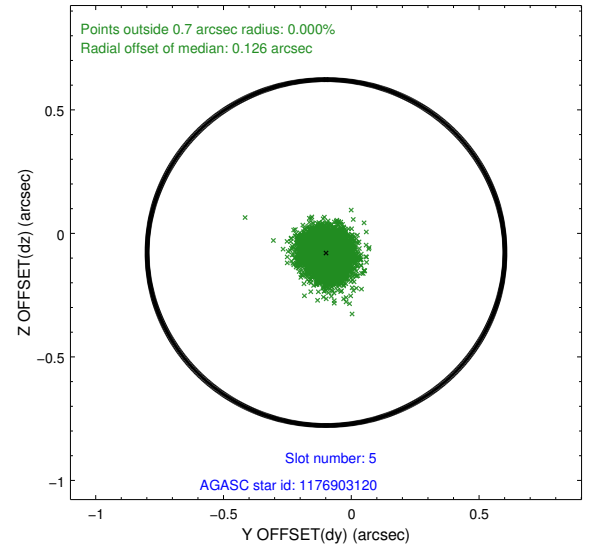
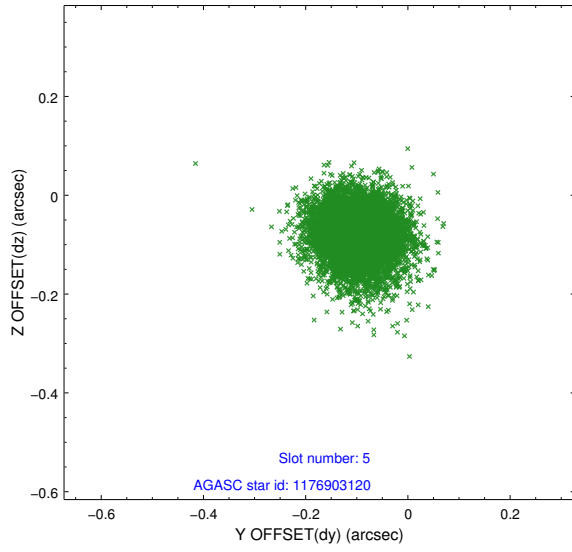
2.4.1 Slot 3



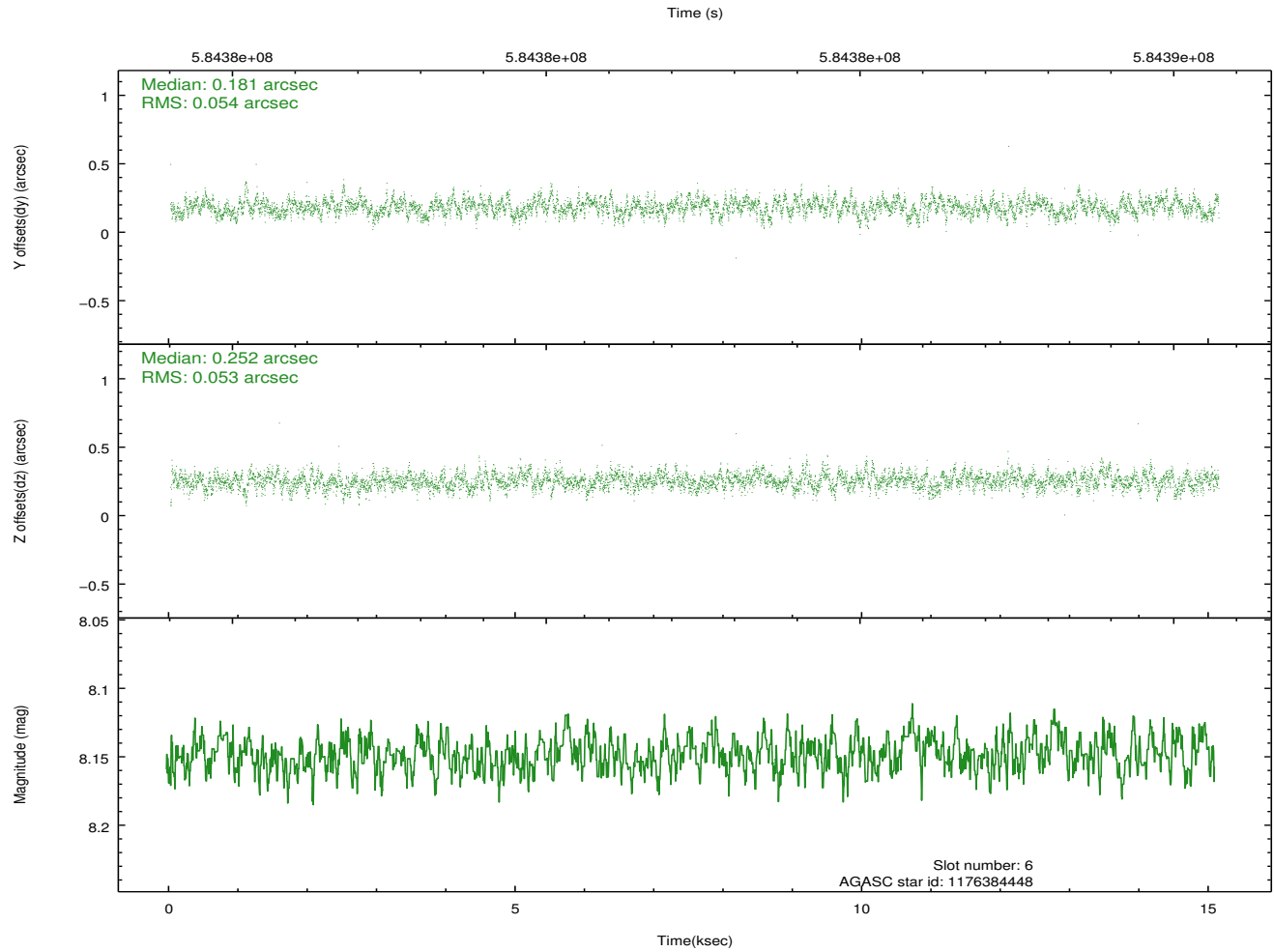
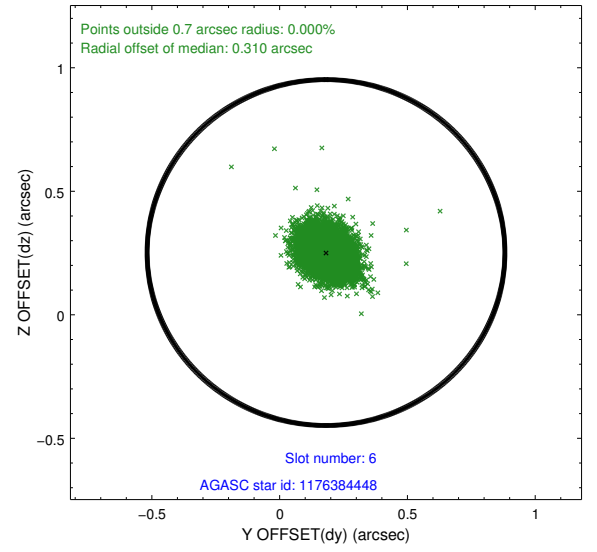
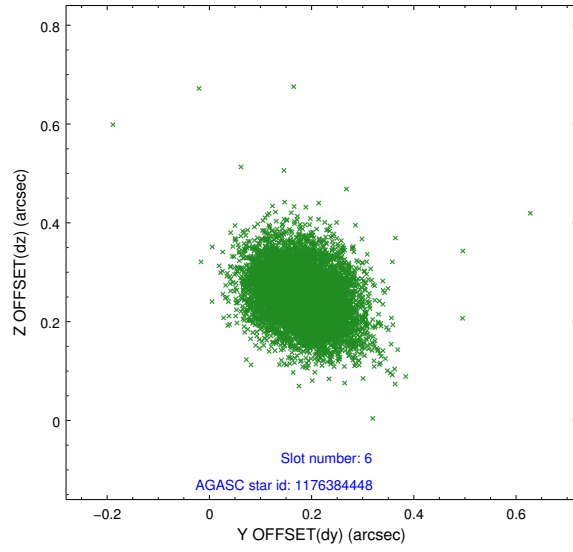
2.4.2 Slot 4



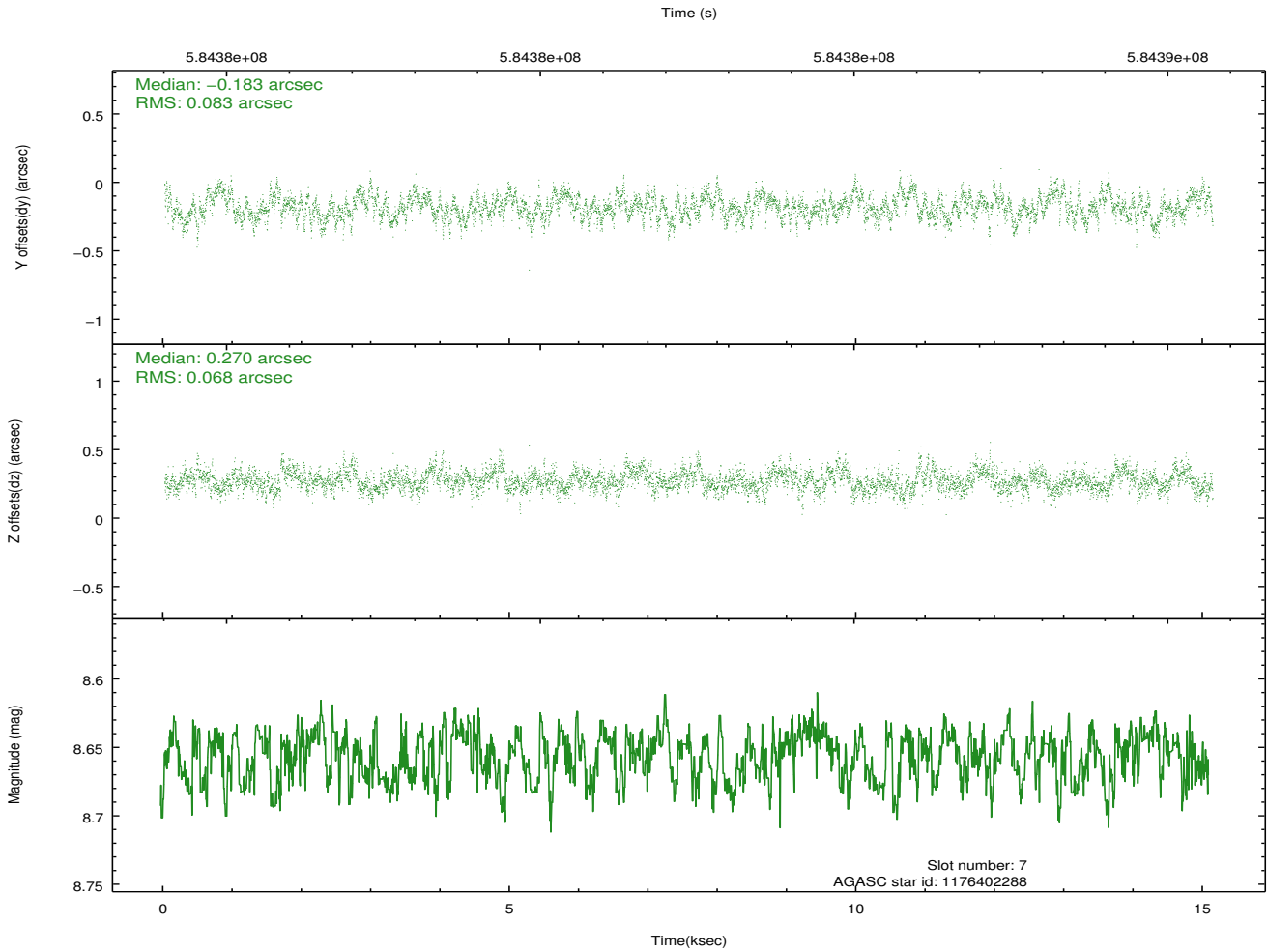
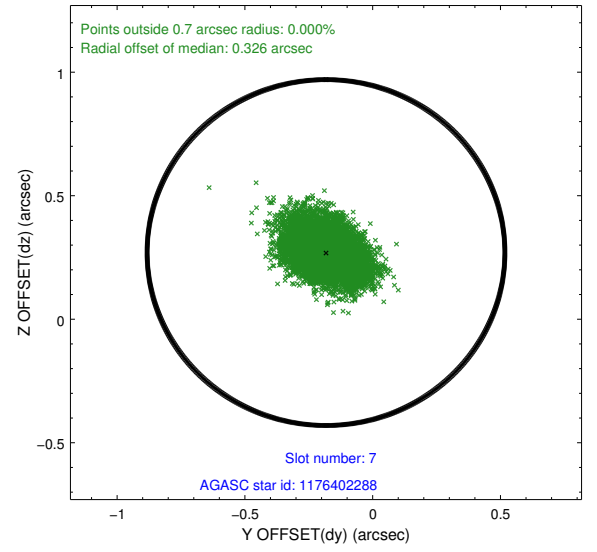
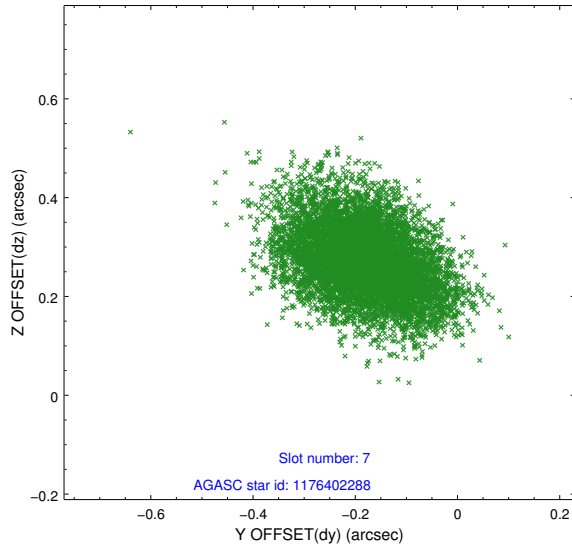
2.4.3 Slot 5



2.4.4 Slot 6

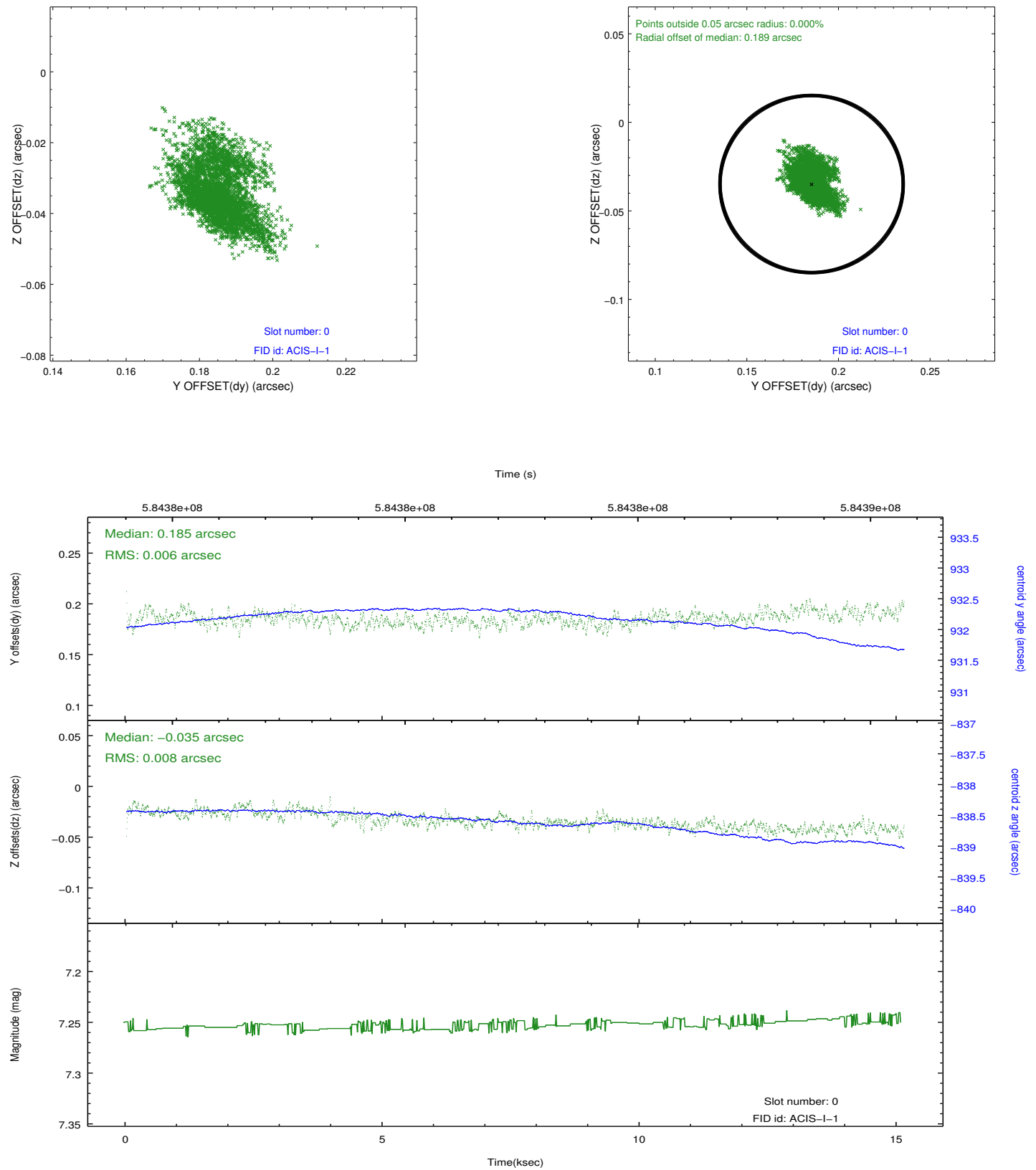


2.4.5 Slot 7

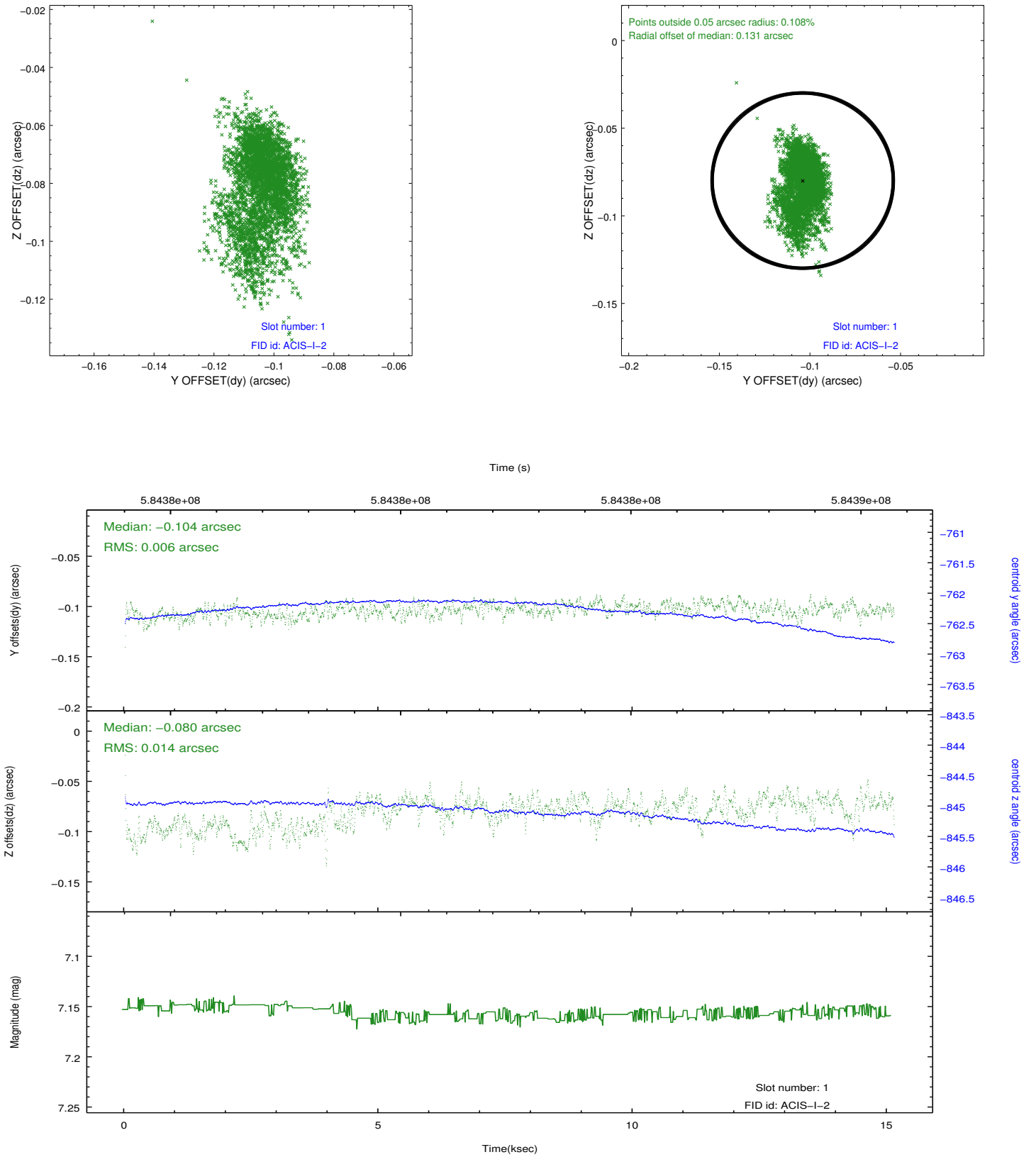


2.5 FID Slots

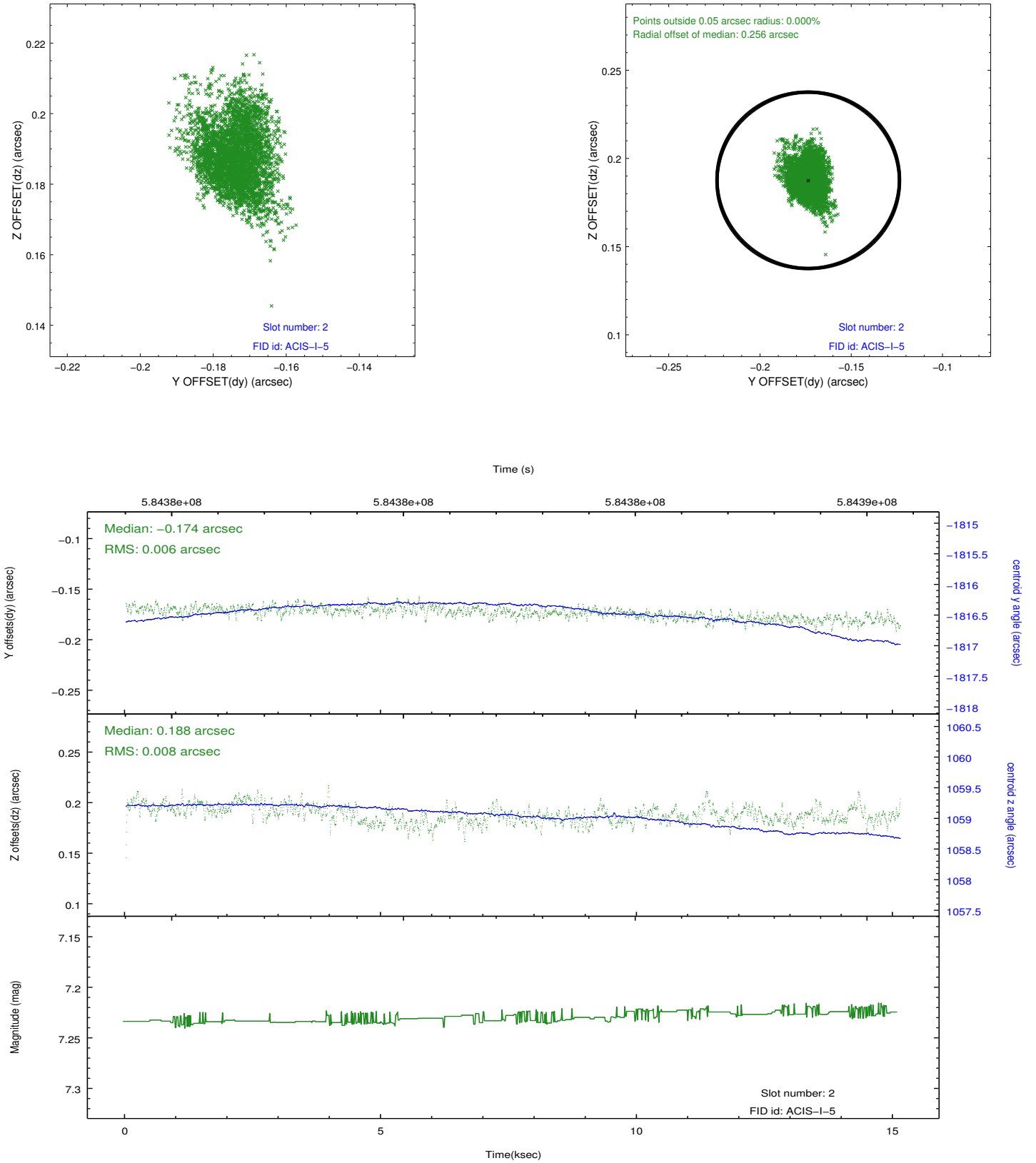
2.5.1 Slot 0



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)	2016.07.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.074881010771

A.2 Comments