

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18796 - L2 Version 2
Chandra X-Ray Center

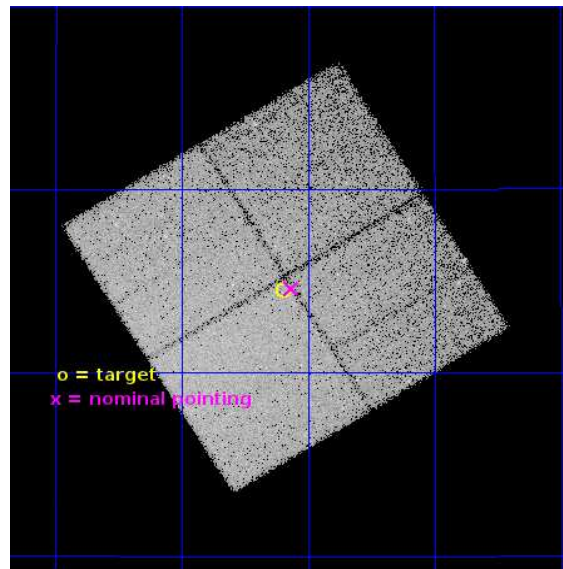
L2 Processing Date : Mar 25 2016

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1 Front

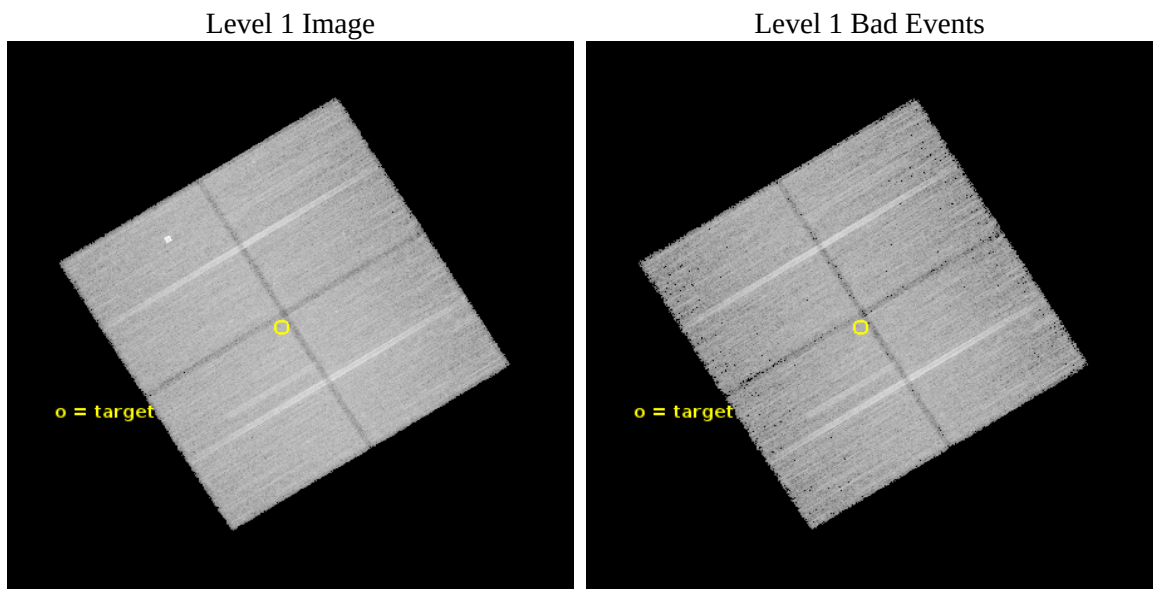
seq_num	801595	Sequence number
obs_id	18796	Observation id
title	Probing ICM on mean free path scales	Proposal title
observer	Dr Irina Zhuravleva	Principal investigator
object	Coma cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.649583	Observer's specified target RA [deg]
dec_targ	28.074806	Observer's specified target Dec [deg]
ra_nom	194.6414584779	Nominal RA [deg]
dec_nom	28.076145939807	Nominal Dec [deg]
roll_nom	148.21251807953	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40083.000308394	Sum of GTIs [s]
livetime	39559.28640069	Livetime [s]
ontime0	40079.859238148	Sum of GTIs [s]
ontime1	40079.859248281	Sum of GTIs [s]
ontime2	40083.000308394	Sum of GTIs [s]
ontime3	40083.000308394	Sum of GTIs [s]
l2events	206069	Number of level 2 events



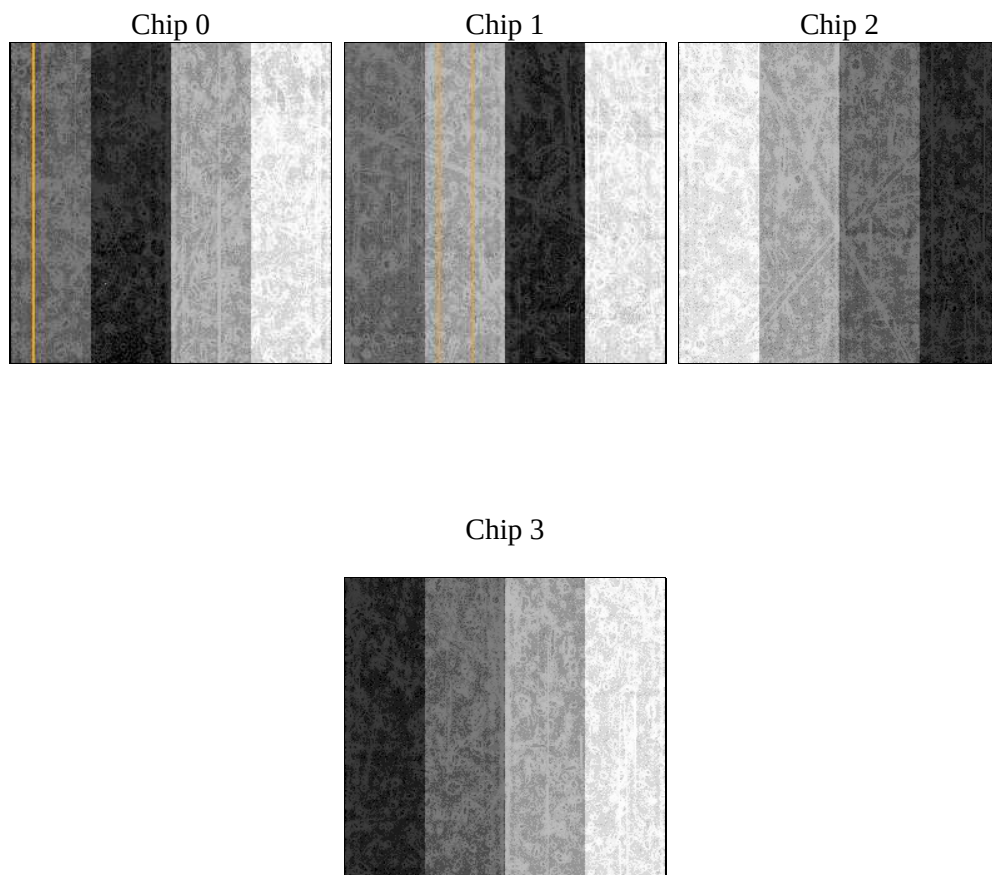
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	40083.000308394	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	40079.859238148	Sum of GTIs [s]
date	2016-03-25T15:52:32	Date and time of file creation	ontime1	40079.859248281	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	40083.000308394	Sum of GTIs [s]
			ontime3	40083.000308394	Sum of GTIs [s]
			l1events	1082098	Number of level 1 events

2.1.4 Events

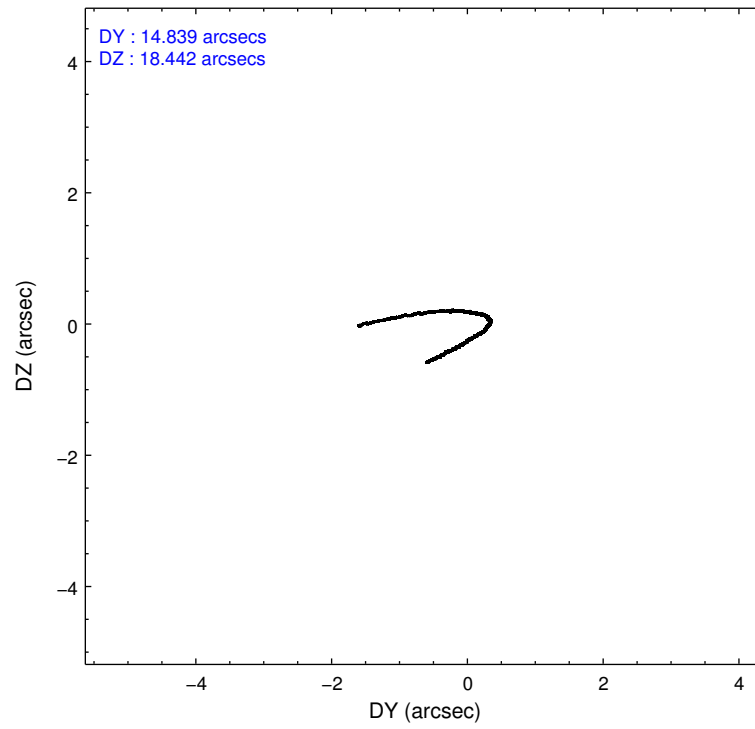
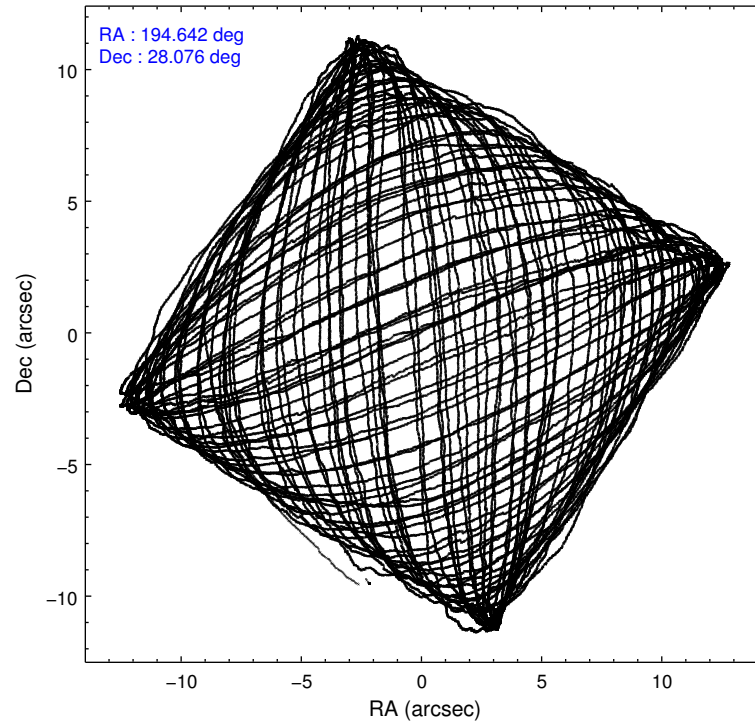
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	247161	272408	269484	293045
rejected events	205323	201526	223191	219648
rejected %	83%	73%	82%	74%

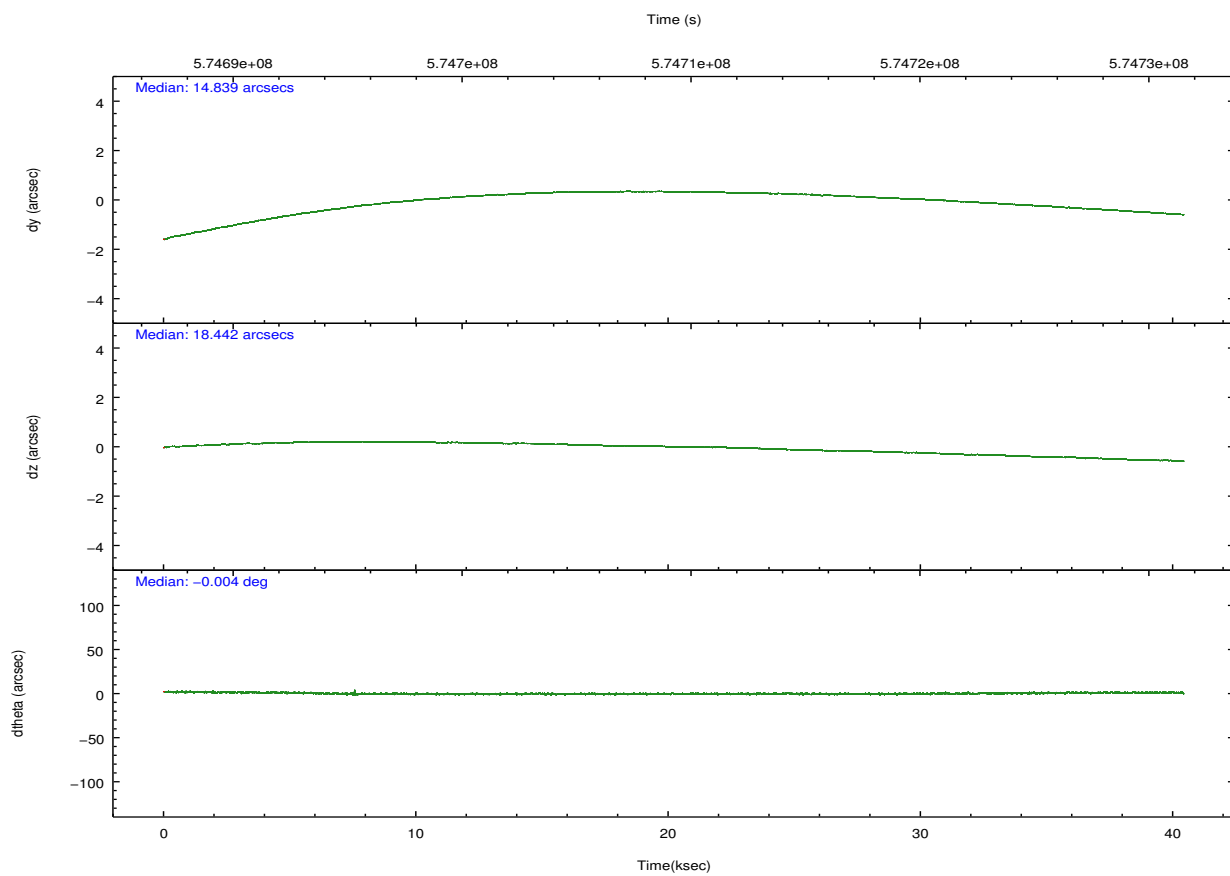
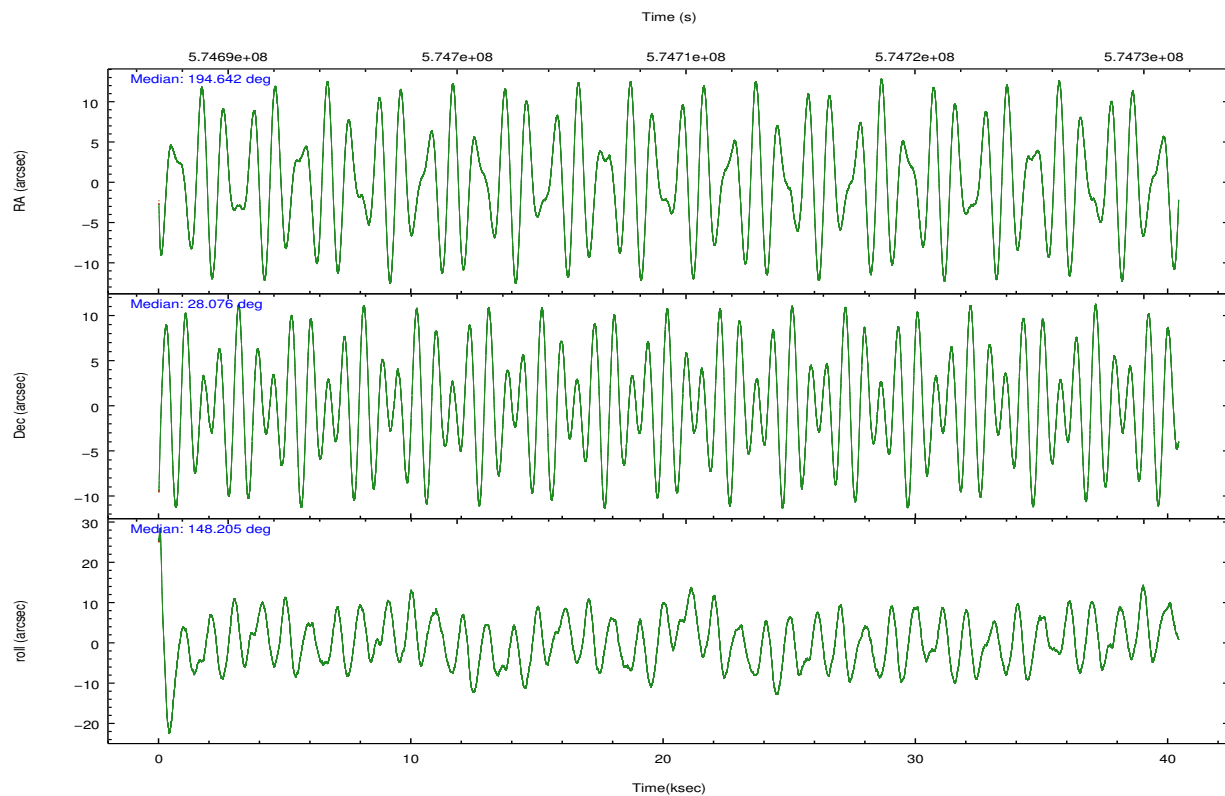
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	21008	42185	25504	46897
	8%	15%	9%	16%
grade 1 events	164	226	226	301
	0%	0%	0%	0%
grade 2 events	8251	12054	8211	10511
	3%	4%	3%	3%
grade 3 events	3288	4128	3342	4450
	1%	1%	1%	1%
grade 4 events	3062	4159	3356	4390
	1%	1%	1%	1%
grade 5 events	10530	11108	9826	12116
	4%	4%	3%	4%
grade 6 events	6235	8372	5884	7162
	2%	3%	2%	2%
grade 7 events	194623	190176	213135	207218
	78%	69%	79%	70%

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	194.672751	194.6414584778951	Subarray requested	NONE	NONE
[deg] Pointing Dec	28.075381	28.07614593980711	Alternating exposures requested	N	N
[deg] Pointing Roll	147.989092	148.2125180795256	[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)	574689462.184000	574688321.2437299			
Observation start date	2016-03-18T11:56:34	2016-03-18T11:38:41			
[s] Observation end time (MET)	574729462.184000	574730128.94611			
Observation end date	2016-03-18T23:03:14	2016-03-18T23:15:28			
Read mode	TIMED	TIMED			

2.3 Aspect



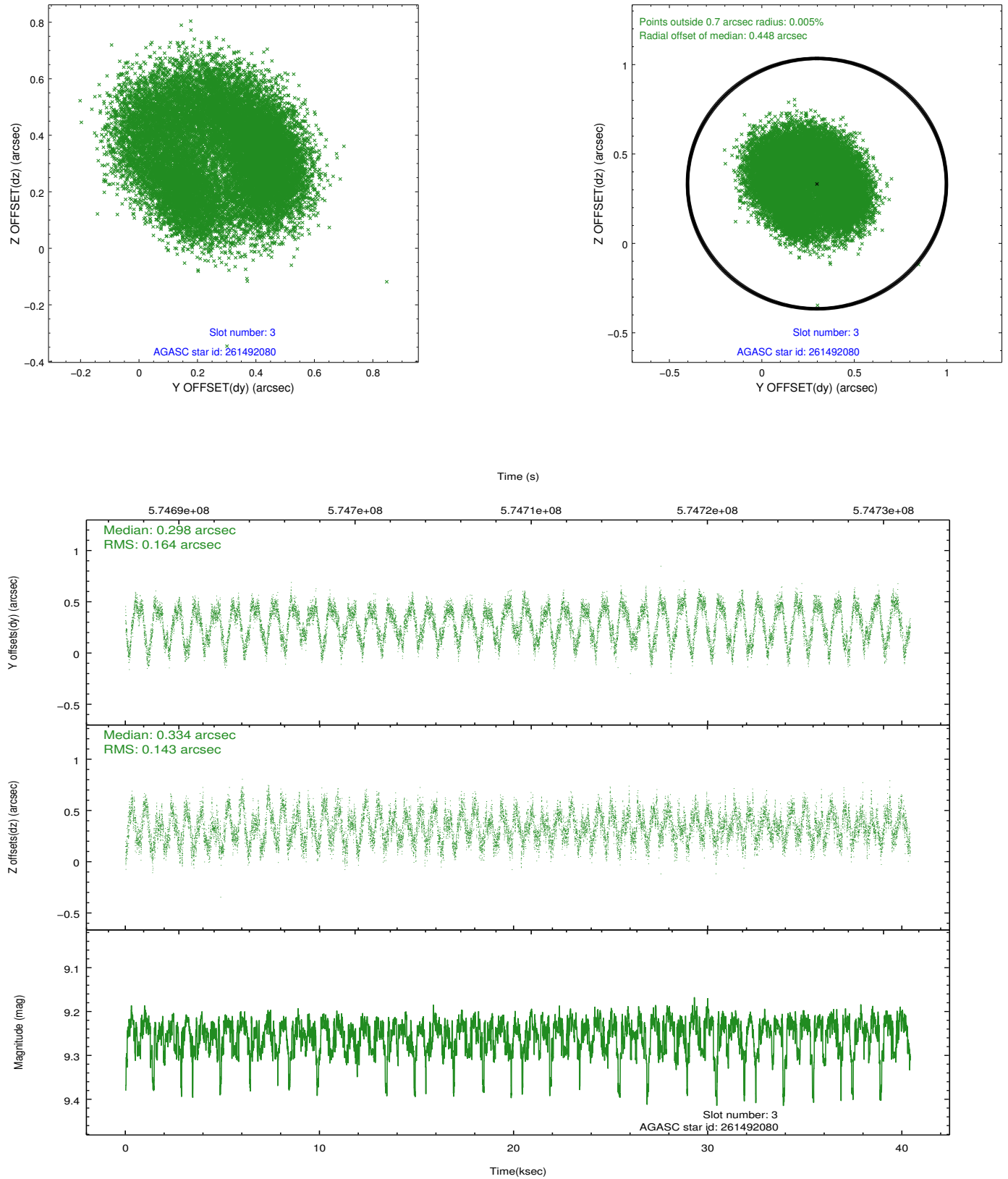


Slot Statistics

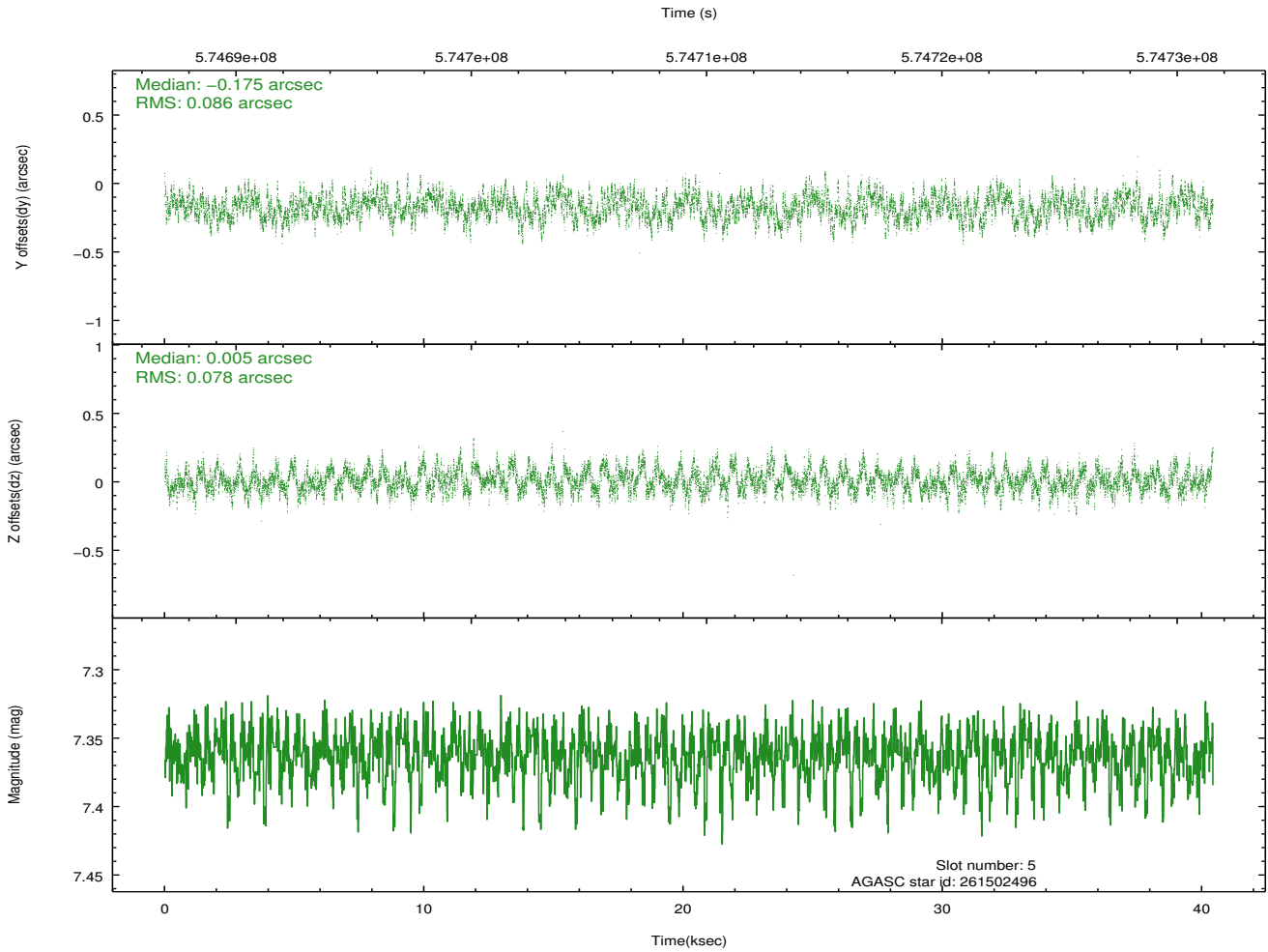
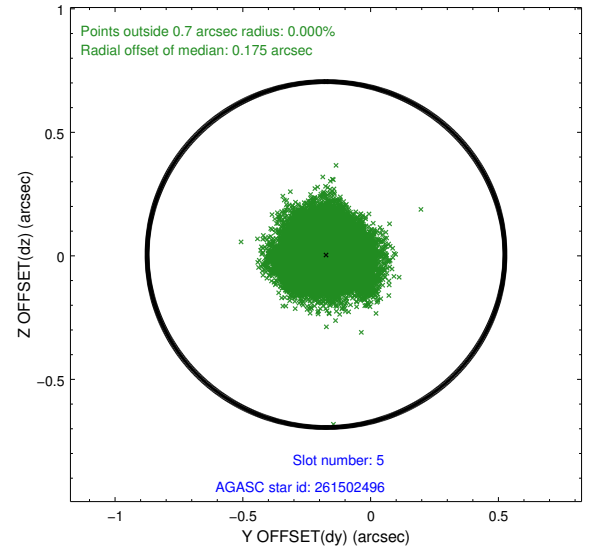
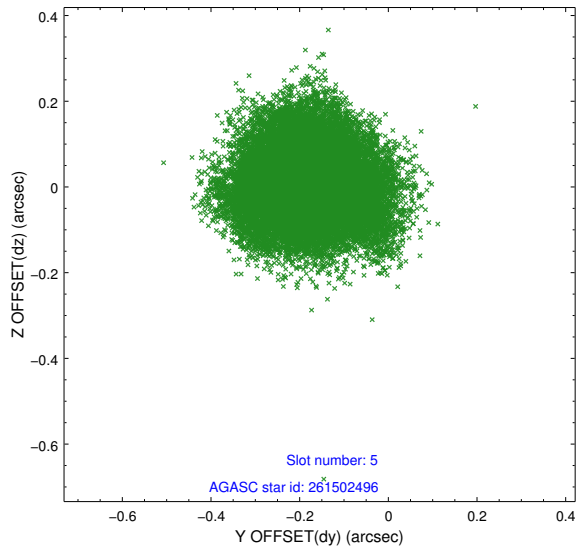
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	9859	0.071	-0.014	0.009	0.017	0.000000	0.000000	924.86	-842.03
1	FID		ACIS-I-5	7.26	9859	-0.350	0.039	0.010	0.022	0.000000	0.000000	-1823.74	1055.39
2	FID		ACIS-I-6	7.26	9860	0.188	0.045	0.011	0.024	0.000000	0.000000	390.40	1700.00
3	GUIDE	used	261492080	9.25	19558	0.298	0.334	0.238	0.343	194.976344	28.631585	249.35	-2207.00
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	GUIDE	used	261502496	7.36	19715	-0.175	0.005	0.126	0.193	194.887297	28.065668	-596.08	-332.22
6	GUIDE	used	261505808	9.33	19705	0.050	-0.087	0.166	0.271	193.710324	27.913269	2293.14	2107.89
7	GUIDE	used	261505760	9.76	19118	-0.152	-0.261	0.304	0.457	193.736841	27.992885	2371.57	1819.58

2.4 Star Slots

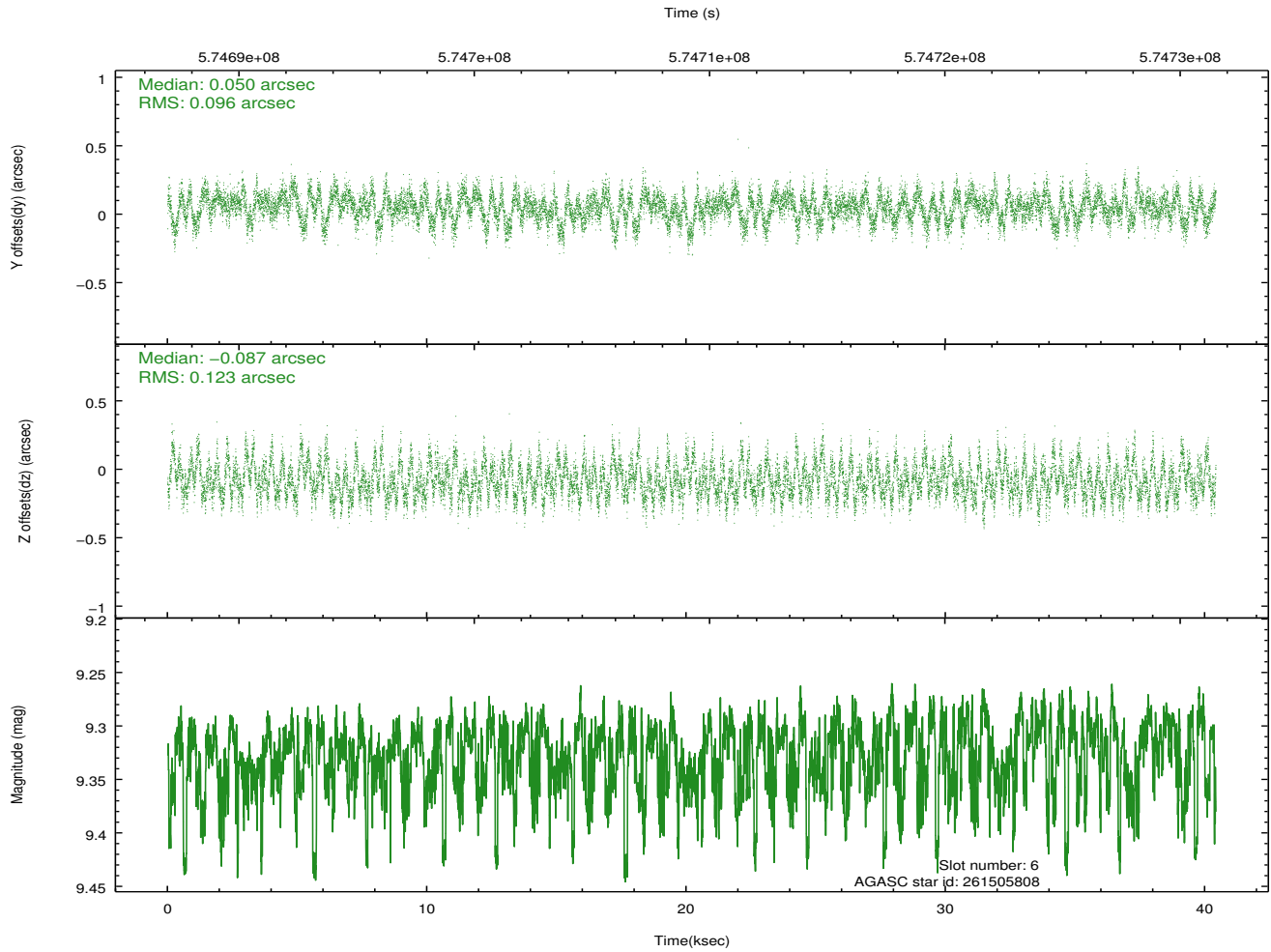
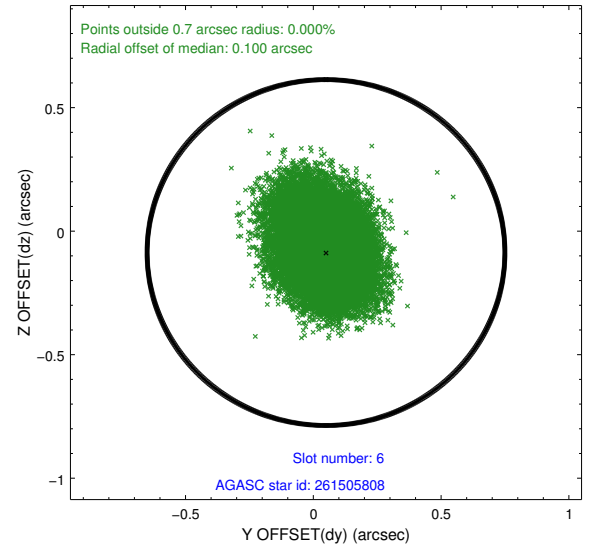
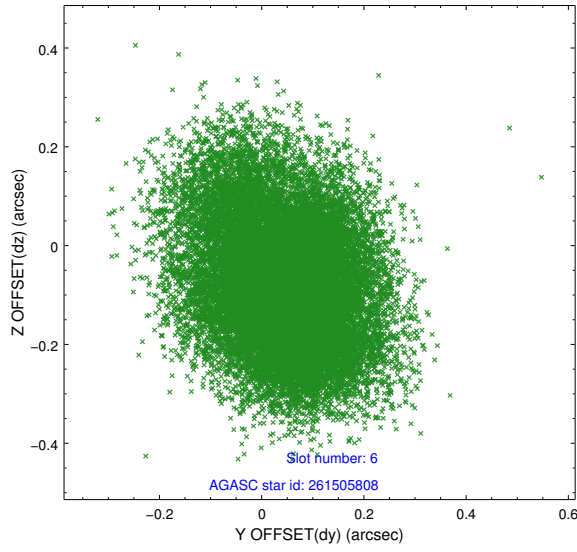
2.4.1 Slot 3



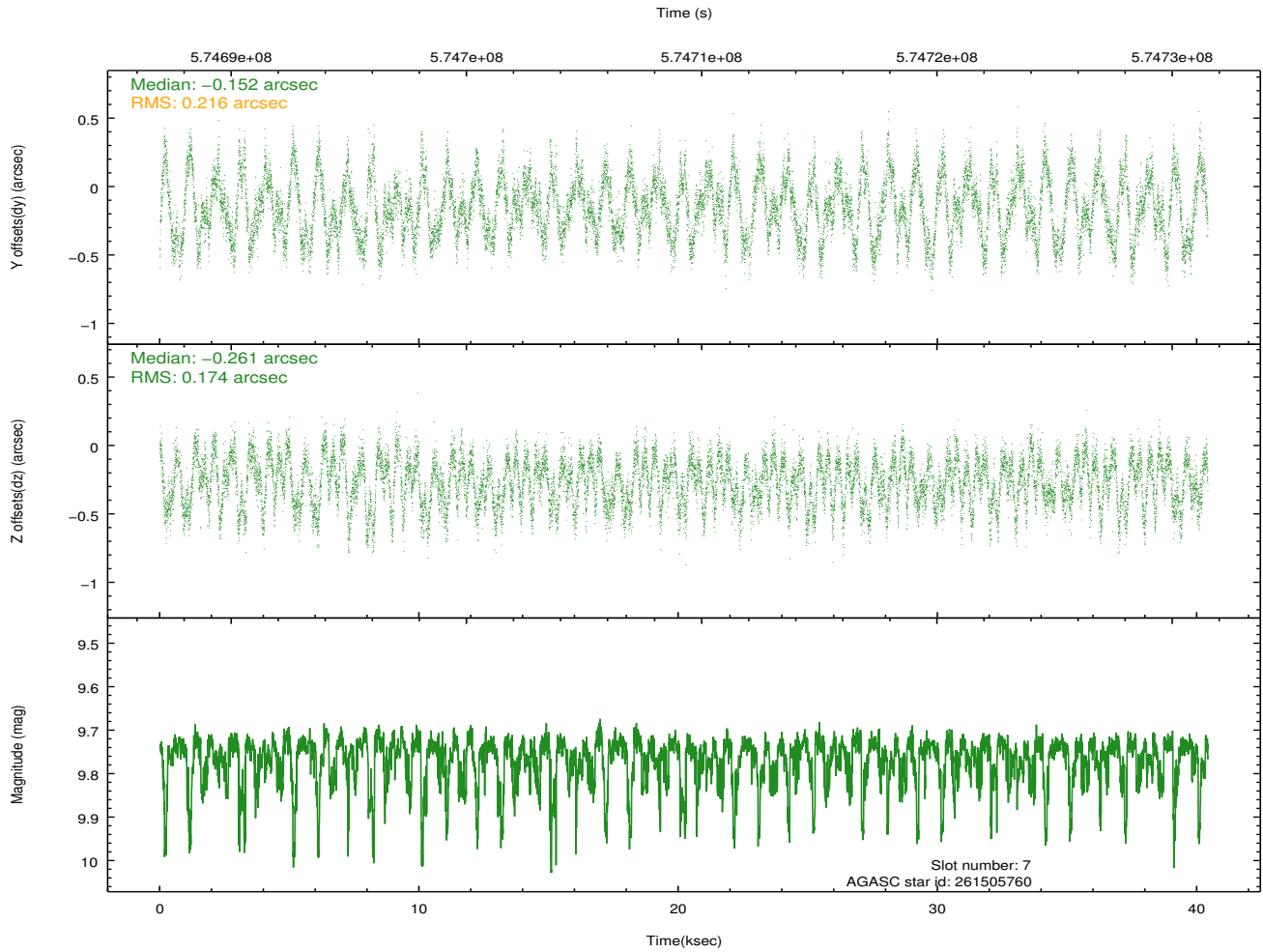
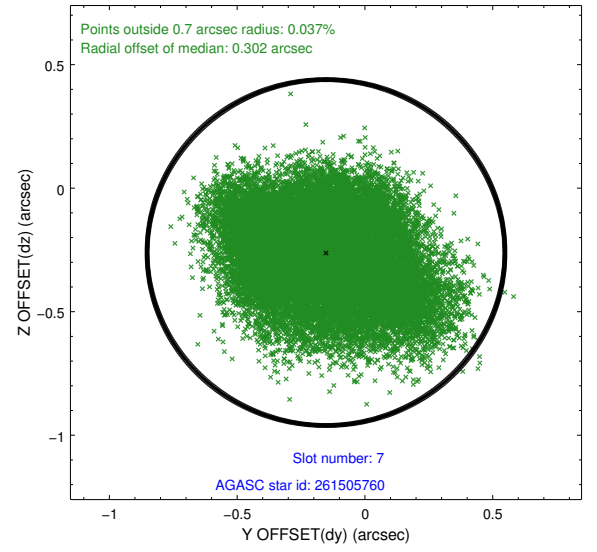
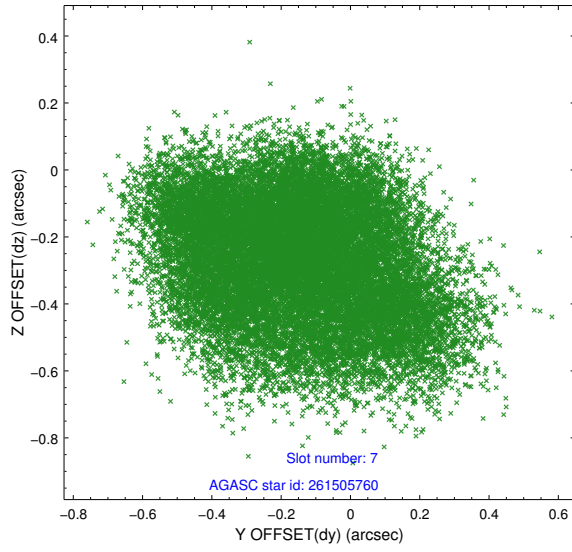
2.4.2 Slot 5



2.4.3 Slot 6

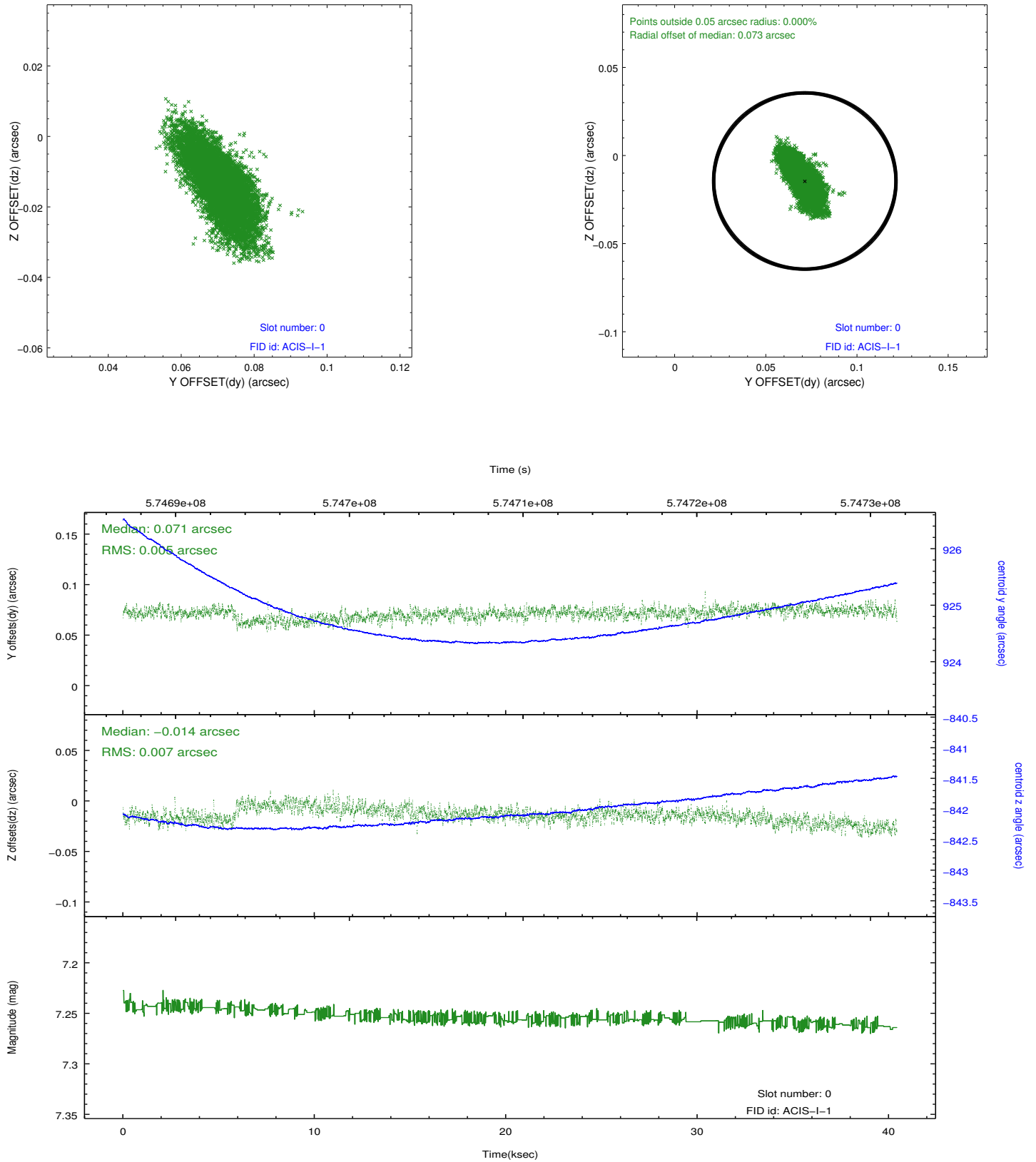


2.4.4 Slot 7

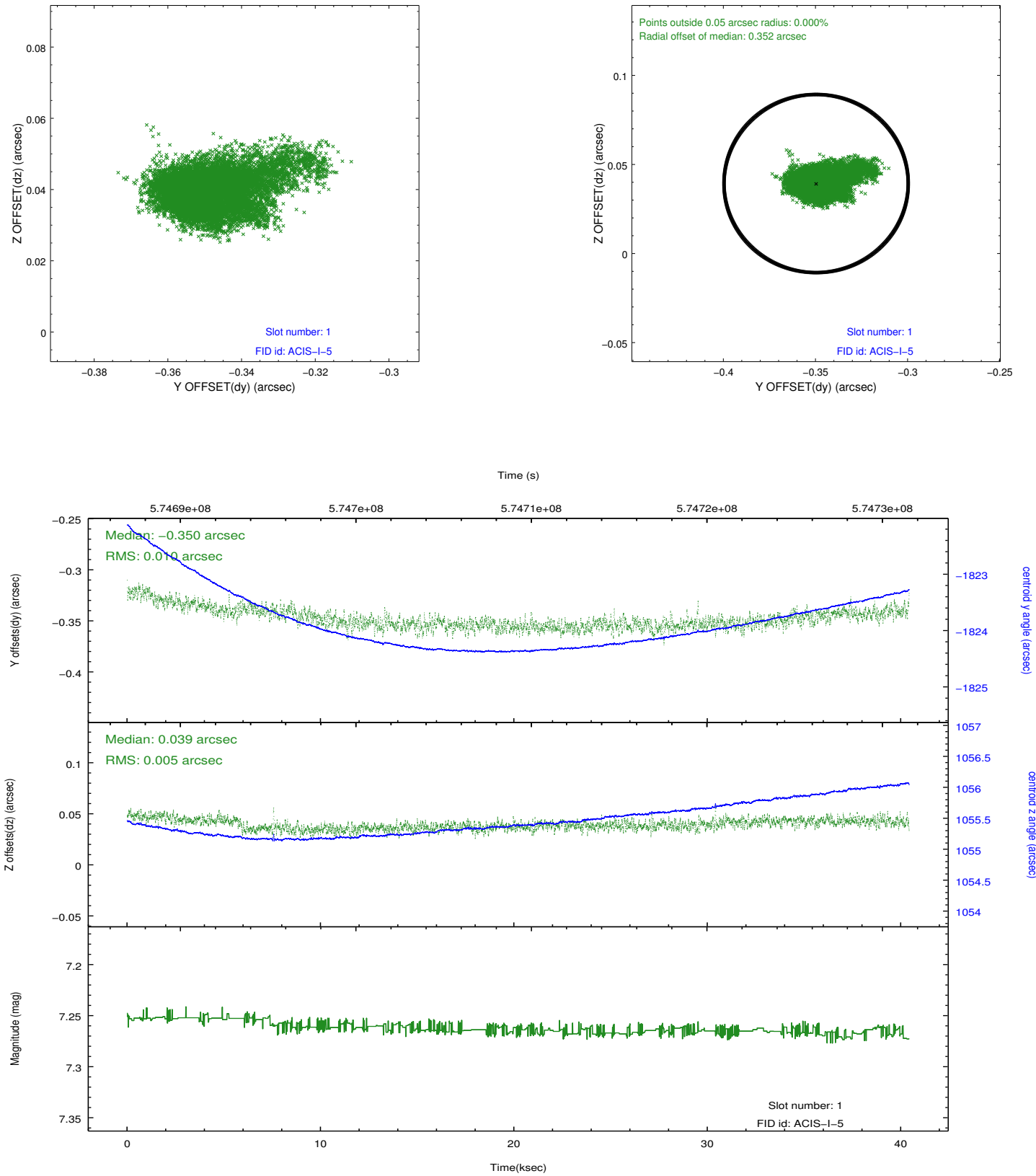


2.5 FID Slots

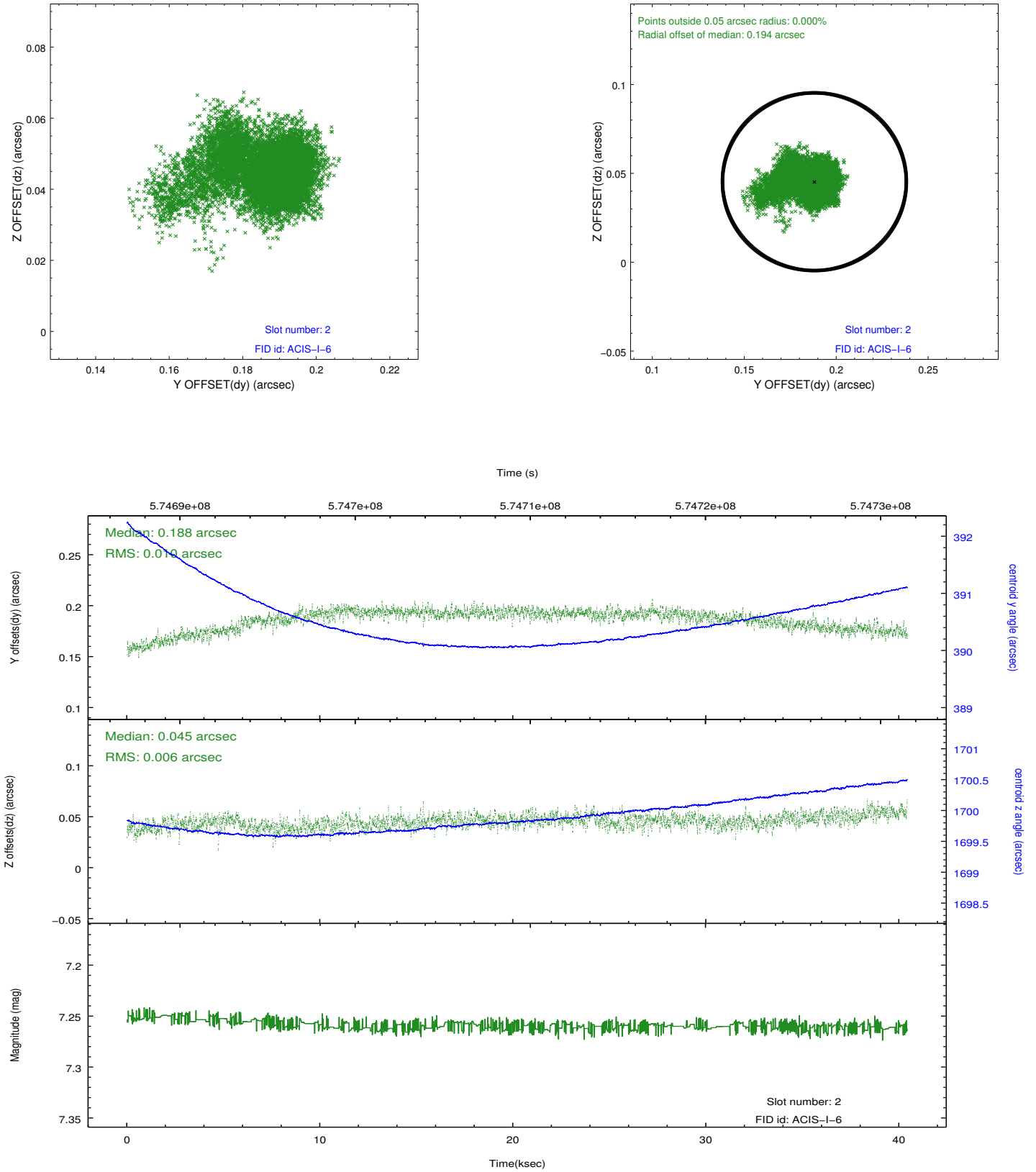
2.5.1 Slot 0



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)	2016.03.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.083000308394

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.