

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19709 - L2 Version 1
Chandra X-Ray Center

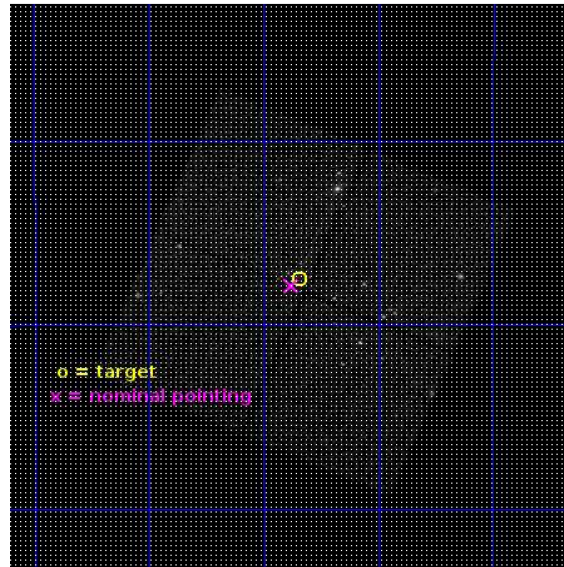
L2 Processing Date : Aug 7 2017

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1 Front

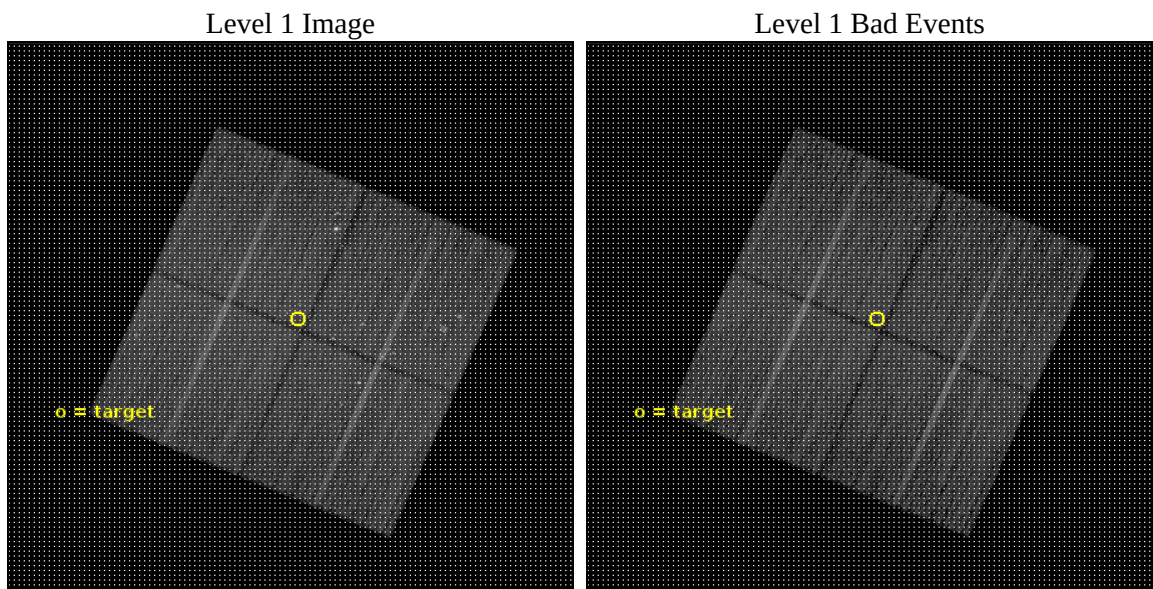
seq_num	201149	Sequence number
obs_id	19709	Observation id
title	R CrA Revisit	Proposal title
observer	Gordon Garmire	Principal investigator
object	R CrA	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	285.460833	Observer's specified target RA [deg]
dec_targ	-36.958333	Observer's specified target Dec [deg]
ra_nom	285.46981819206	Nominal RA [deg]
dec_nom	-36.964341748509	Nominal Dec [deg]
roll_nom	293.21409232132	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40126.359328508	Sum of GTIs [s]
livetime	39602.078903285	Livetime [s]
ontime0	40129.500308752	Sum of GTIs [s]
ontime1	40120.077157617	Sum of GTIs [s]
ontime2	40129.500308752	Sum of GTIs [s]
ontime3	40126.359328508	Sum of GTIs [s]
l2events	101357	Number of level 2 events



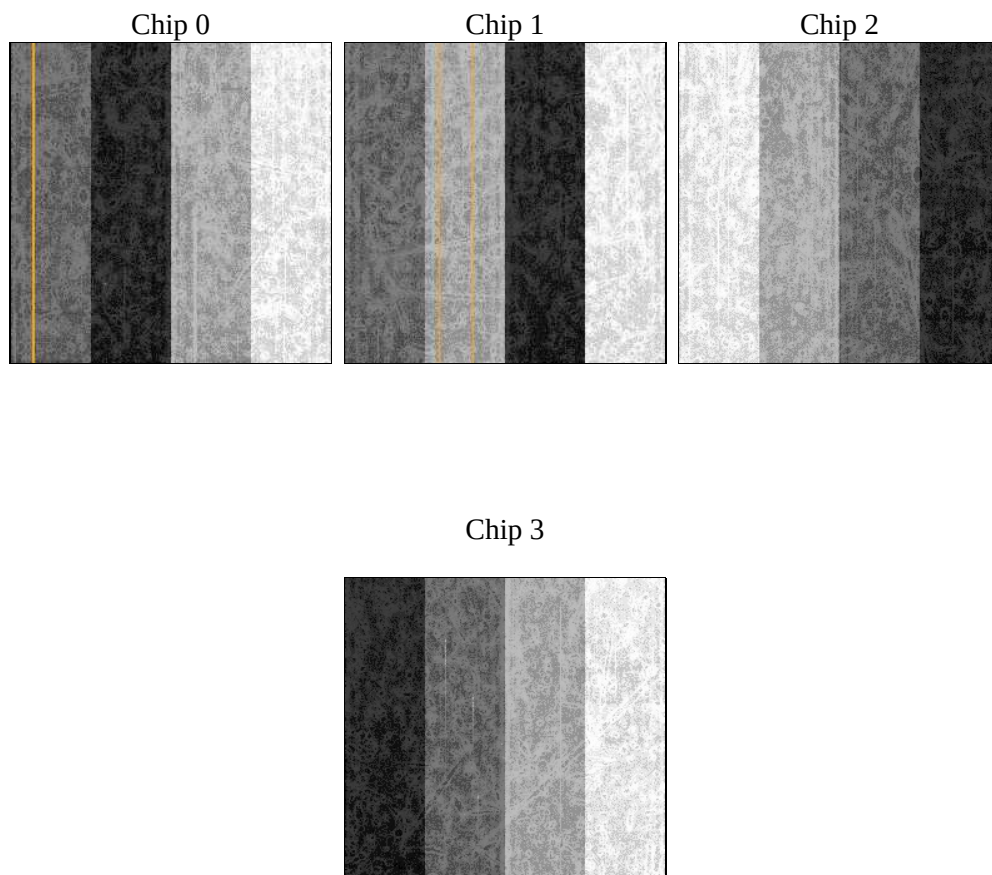
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	40126.359328508	Sum of GTIs [s]
caldsver	4.7.5	 	ontime0	40129.500308752	Sum of GTIs [s]
date	2017-08-07T04:05:55	Date and time of file creation	ontime1	40120.077157617	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	40129.500308752	Sum of GTIs [s]
			ontime3	40126.359328508	Sum of GTIs [s]
			l1events	865580	Number of level 1 events

2.1.4 Events

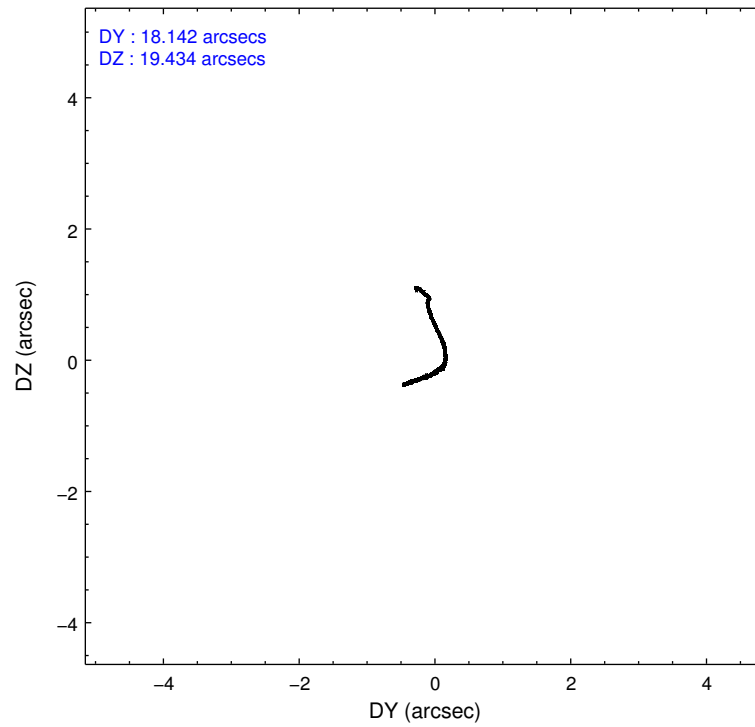
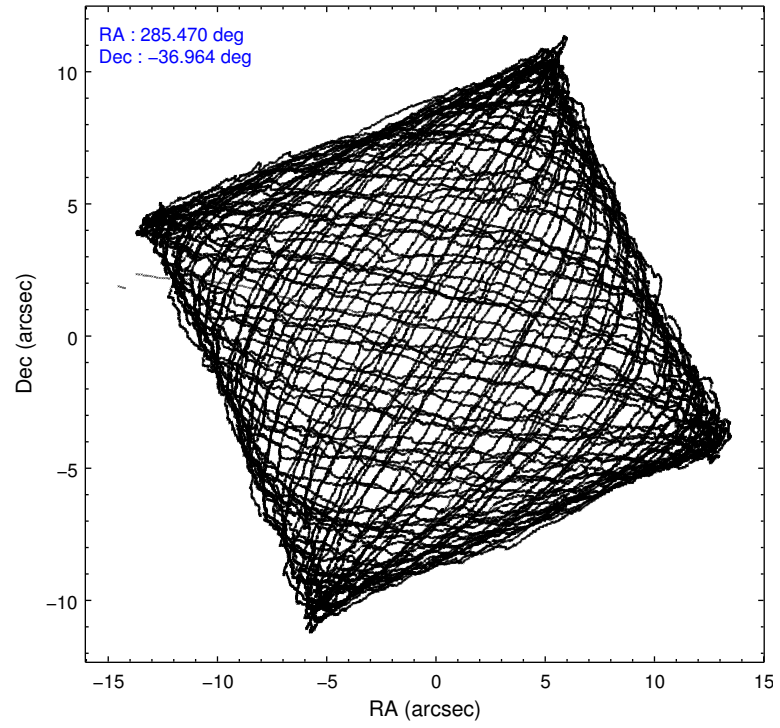
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	203888	202539	231055	228098
rejected events	176658	172398	208089	186940
rejected %	86%	85%	90%	81%

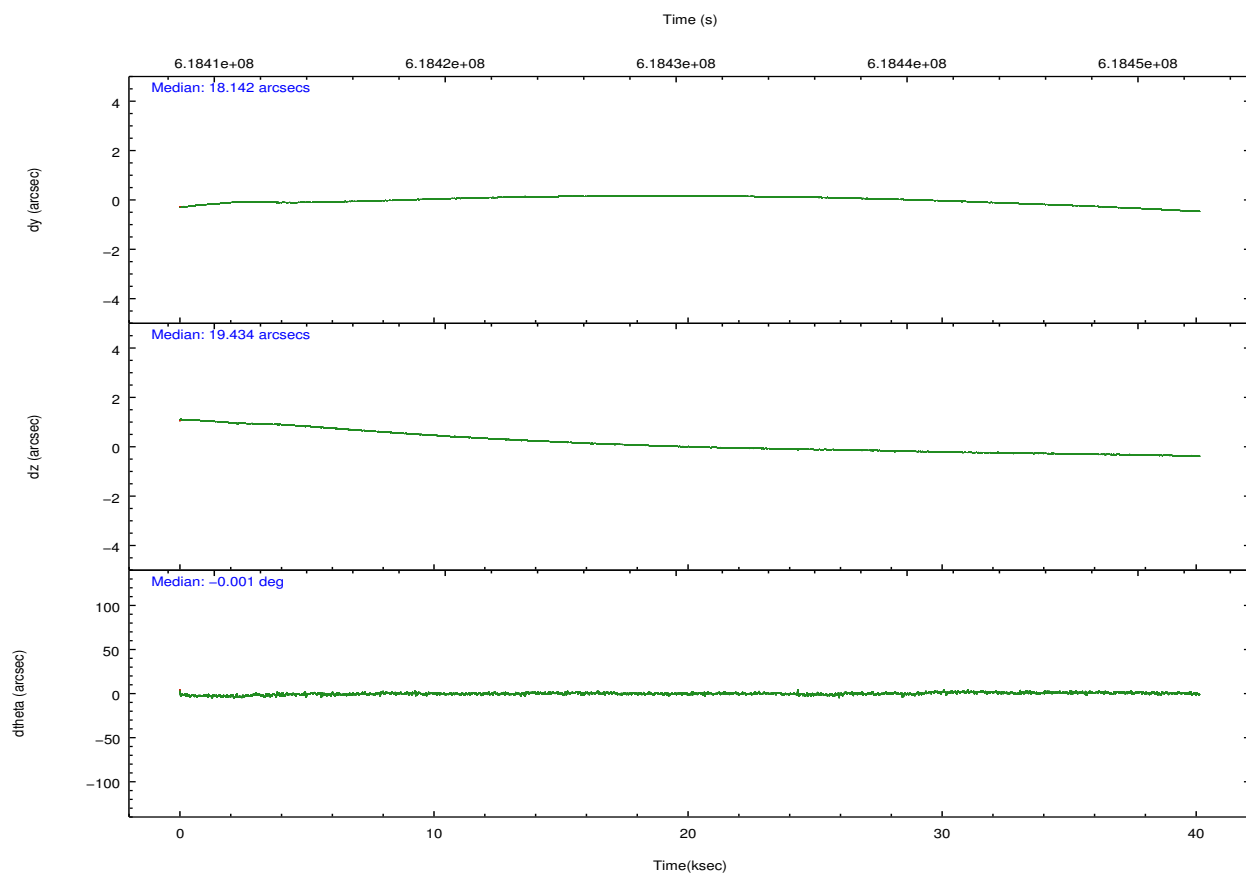
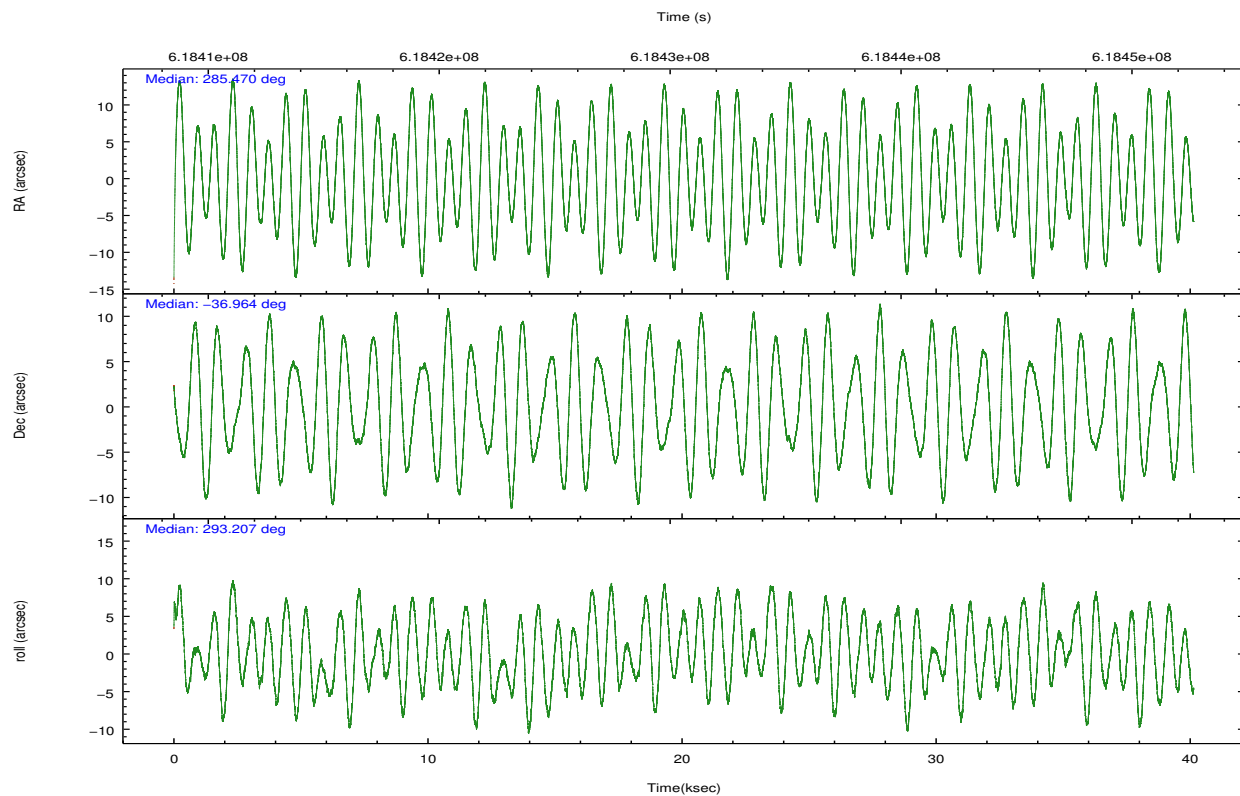
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	12949	14386	9615	23116
	6%	7%	4%	10%
grade 1 events	185	182	144	1094
	0%	0%	0%	0%
grade 2 events	6214	6297	5871	7362
	3%	3%	2%	3%
grade 3 events	2400	2667	2036	3096
	1%	1%	0%	1%
grade 4 events	2207	2481	2063	3182
	1%	1%	0%	1%
grade 5 events	4877	5351	4514	6144
	2%	2%	1%	2%
grade 6 events	3472	4317	3387	4406
	1%	2%	1%	1%
grade 7 events	171584	166858	203425	179698
	84%	82%	88%	78%

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	285.442074	285.4698181920595	Subarray requested	NONE	NONE
[deg] Pointing Dec	-36.947889	-36.96434174850864	Alternating exposures requested	N	N
[deg] Pointing Roll	292.988717	293.2140923213243	[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)	618410645.184000	618409487.6178401			
Observation start date	2017-08-06T12:42:56	2017-08-06T12:24:47			
[s] Observation end time (MET)	618450645.184000	618451637.1578			
Observation end date	2017-08-06T23:49:36	2017-08-07T00:07:17			
Read mode	TIMED	TIMED			

2.3 Aspect



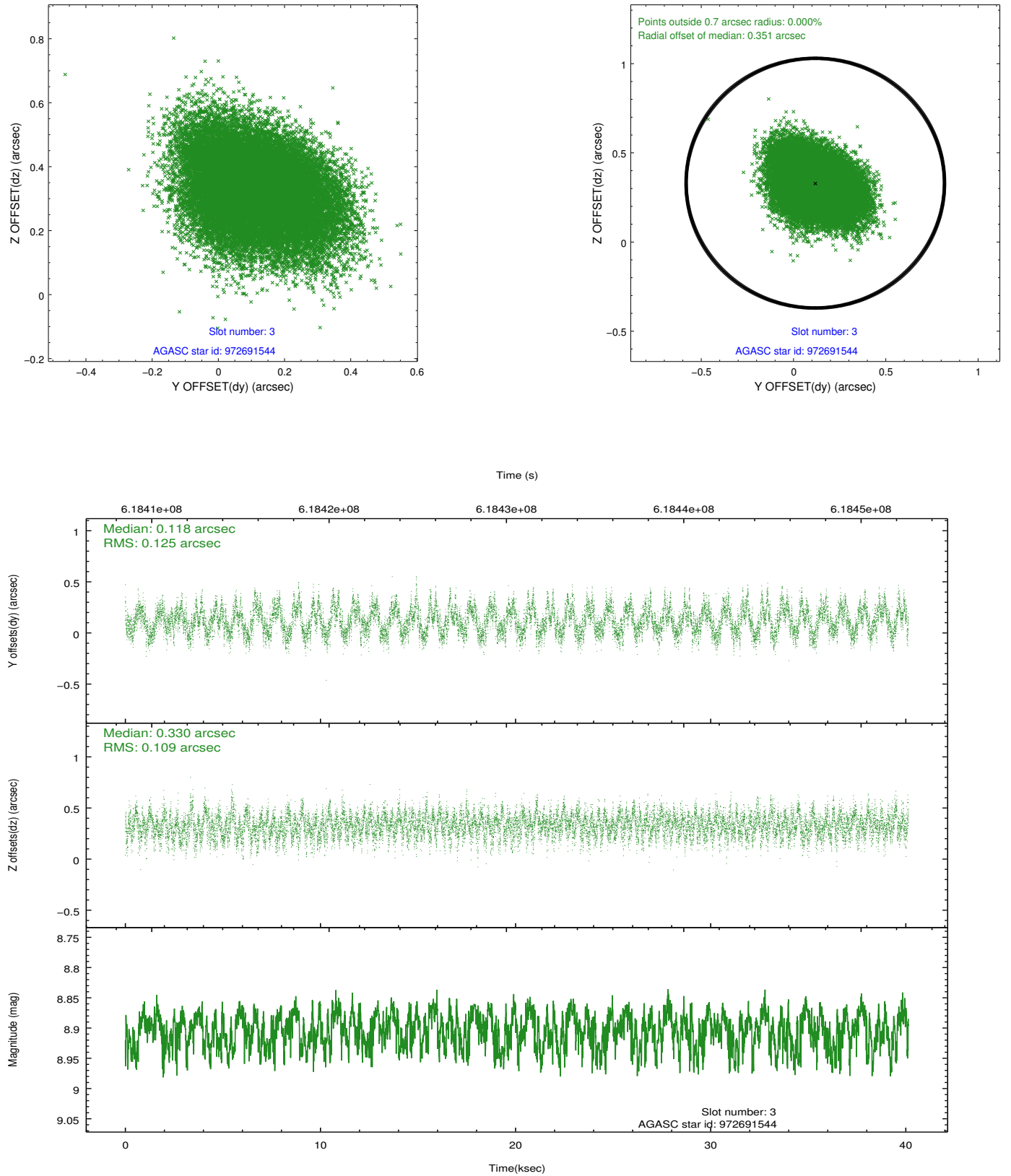


Slot Statistics

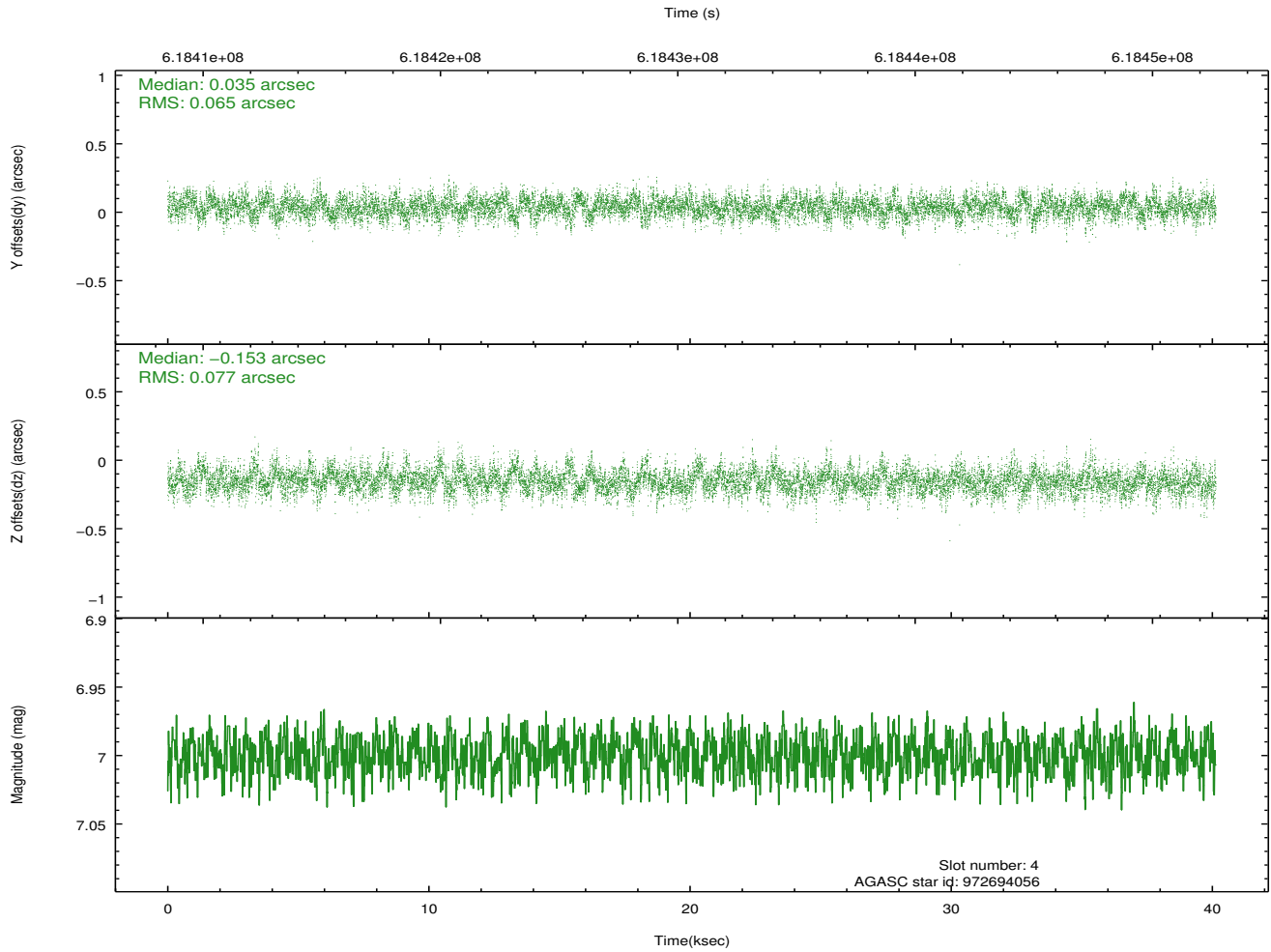
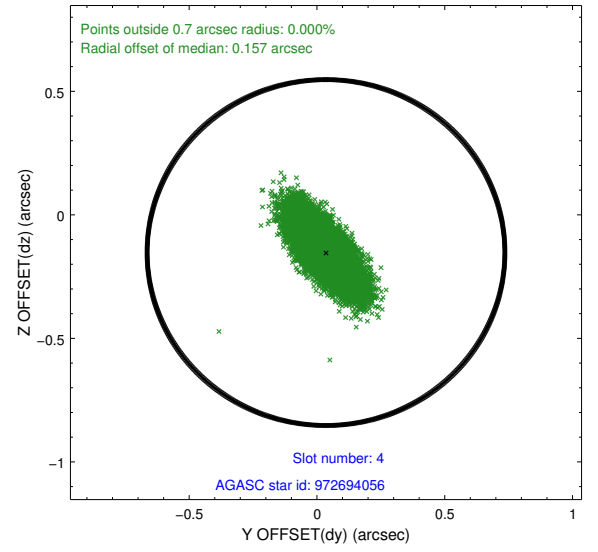
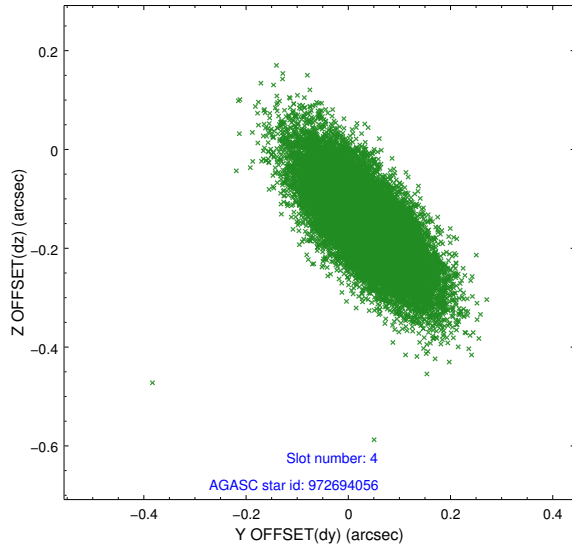
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.07	9789	-0.089	0.020	0.015	0.042	0.000000	0.000000	921.15	-843.31
1	FID		ACIS-I-2	6.98	9790	-0.321	-0.206	0.011	0.029	0.000000	0.000000	-773.16	-849.93
2	FID		ACIS-I-4	7.03	9789	0.313	0.254	0.010	0.020	0.000000	0.000000	2141.47	1056.70
3	GUIDE	used	972691544	8.90	19567	0.118	0.330	0.178	0.278	284.930895	-36.788005	-1100.53	-1133.58
4	GUIDE	used	972694056	7.00	19577	0.035	-0.153	0.101	0.188	285.682787	-36.657985	-688.15	1047.03
5	GUIDE	used	972816848	8.98	19555	-0.077	0.154	0.276	0.423	285.776618	-36.380580	-1499.76	1689.73
6	GUIDE	used	1037567144	8.70	19561	0.085	-0.043	0.127	0.223	284.940440	-37.605390	1624.57	-2242.68
7	GUIDE	used	972816680	9.12	19564	-0.164	-0.276	0.170	0.299	286.054324	-36.904693	550.59	1680.79

2.4 Star Slots

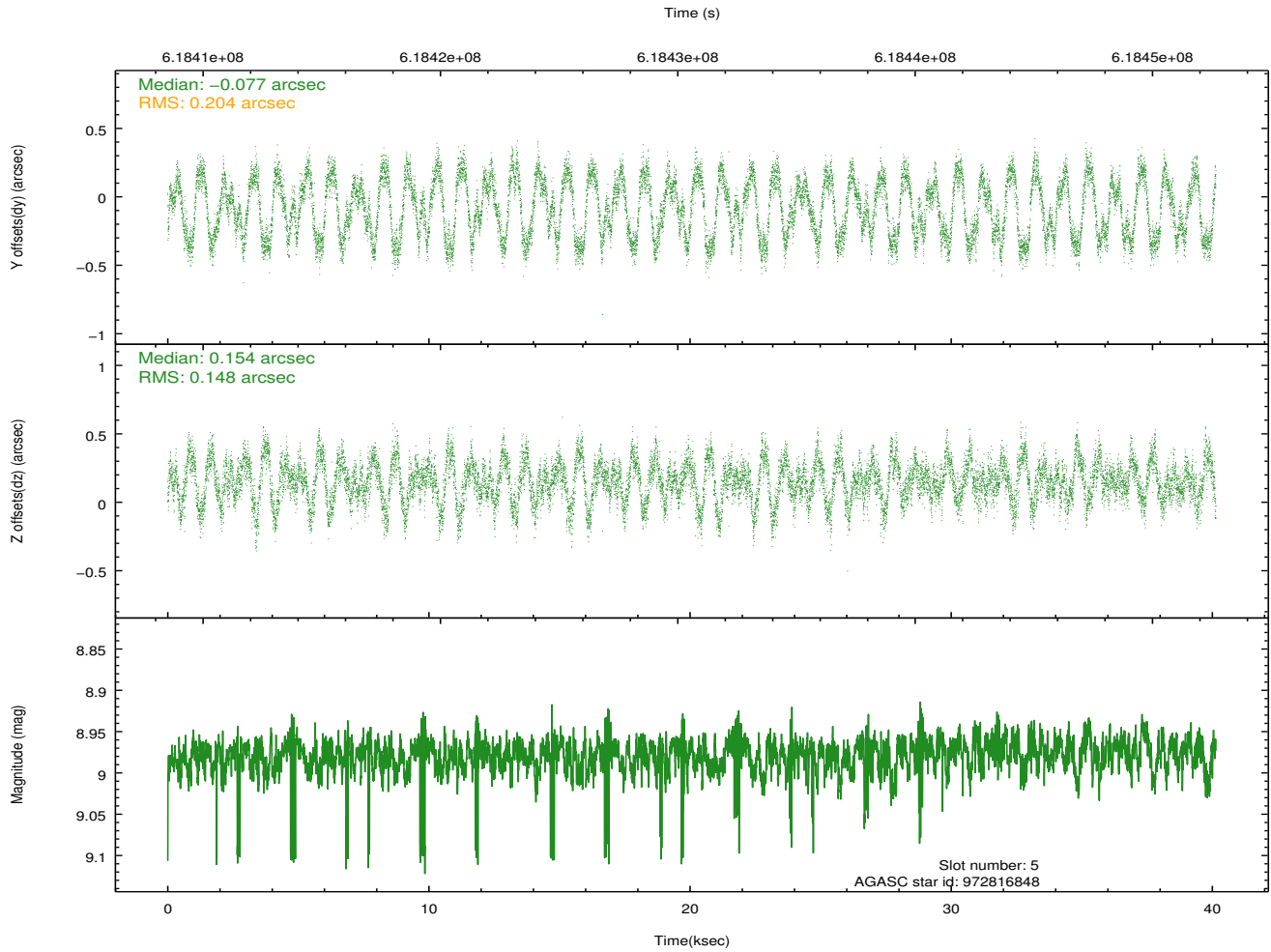
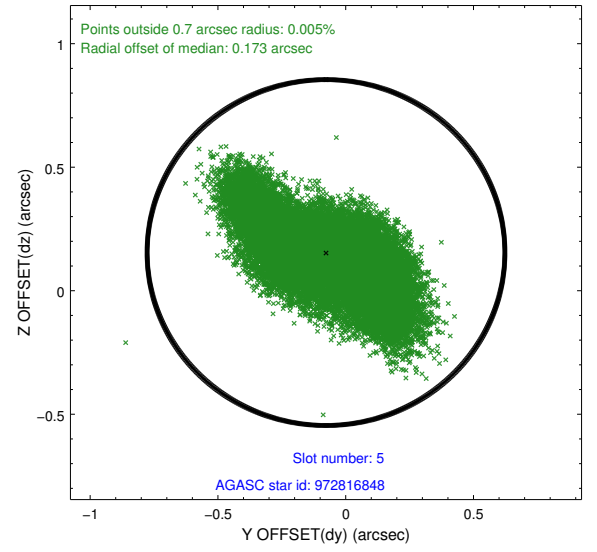
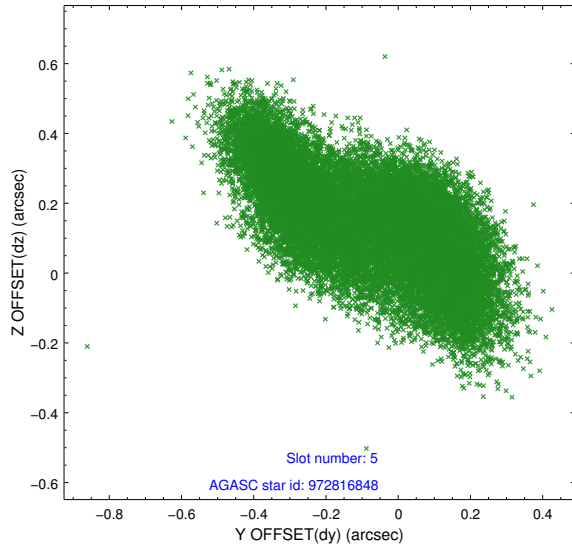
2.4.1 Slot 3



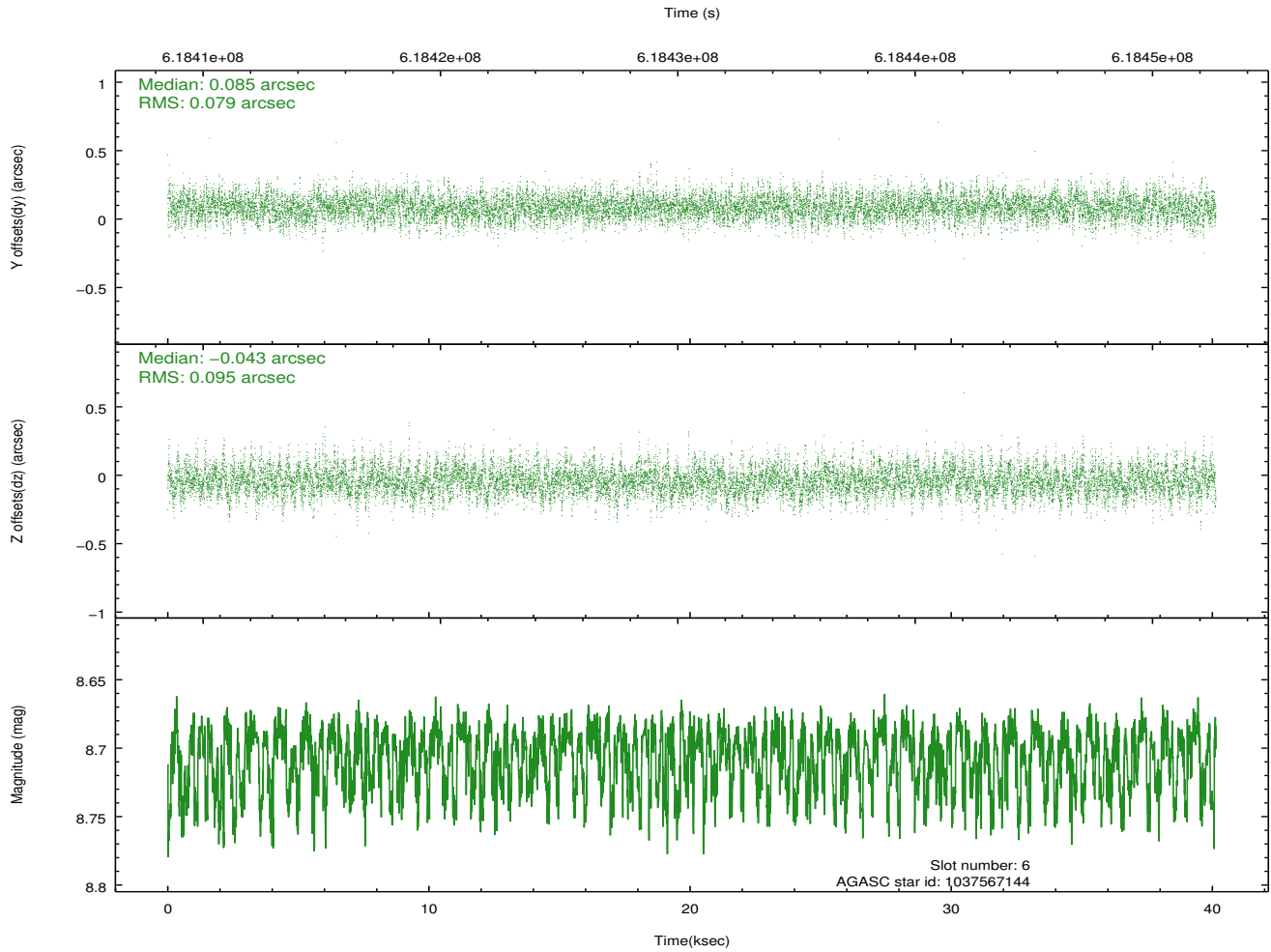
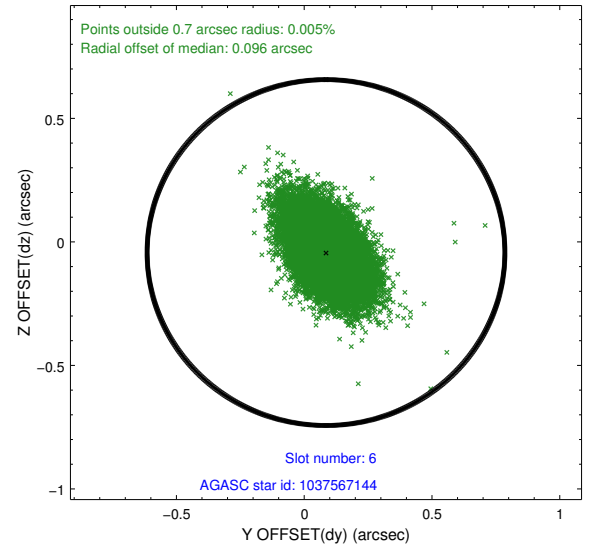
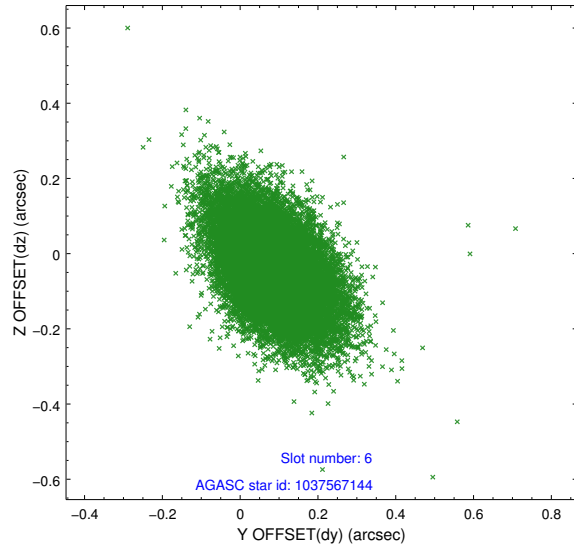
2.4.2 Slot 4



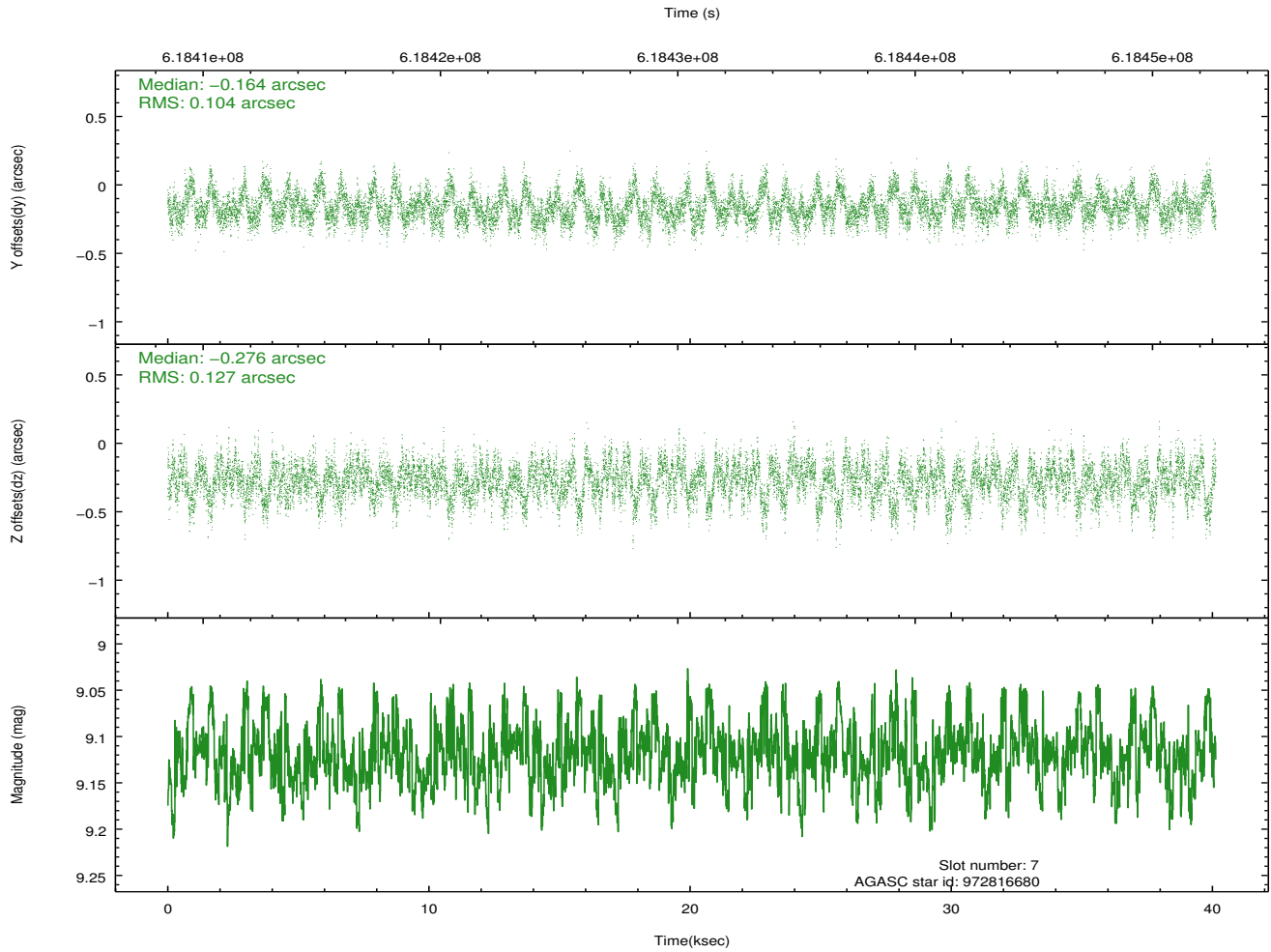
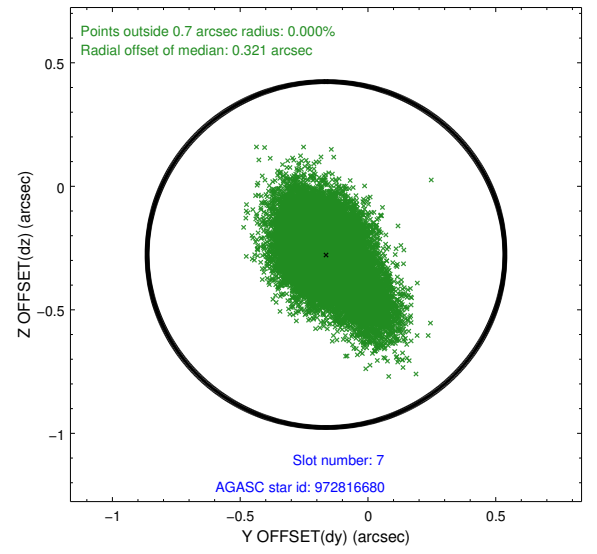
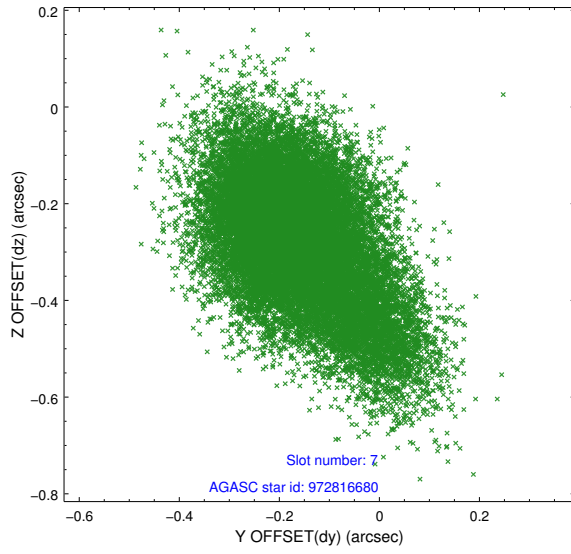
2.4.3 Slot 5



2.4.4 Slot 6

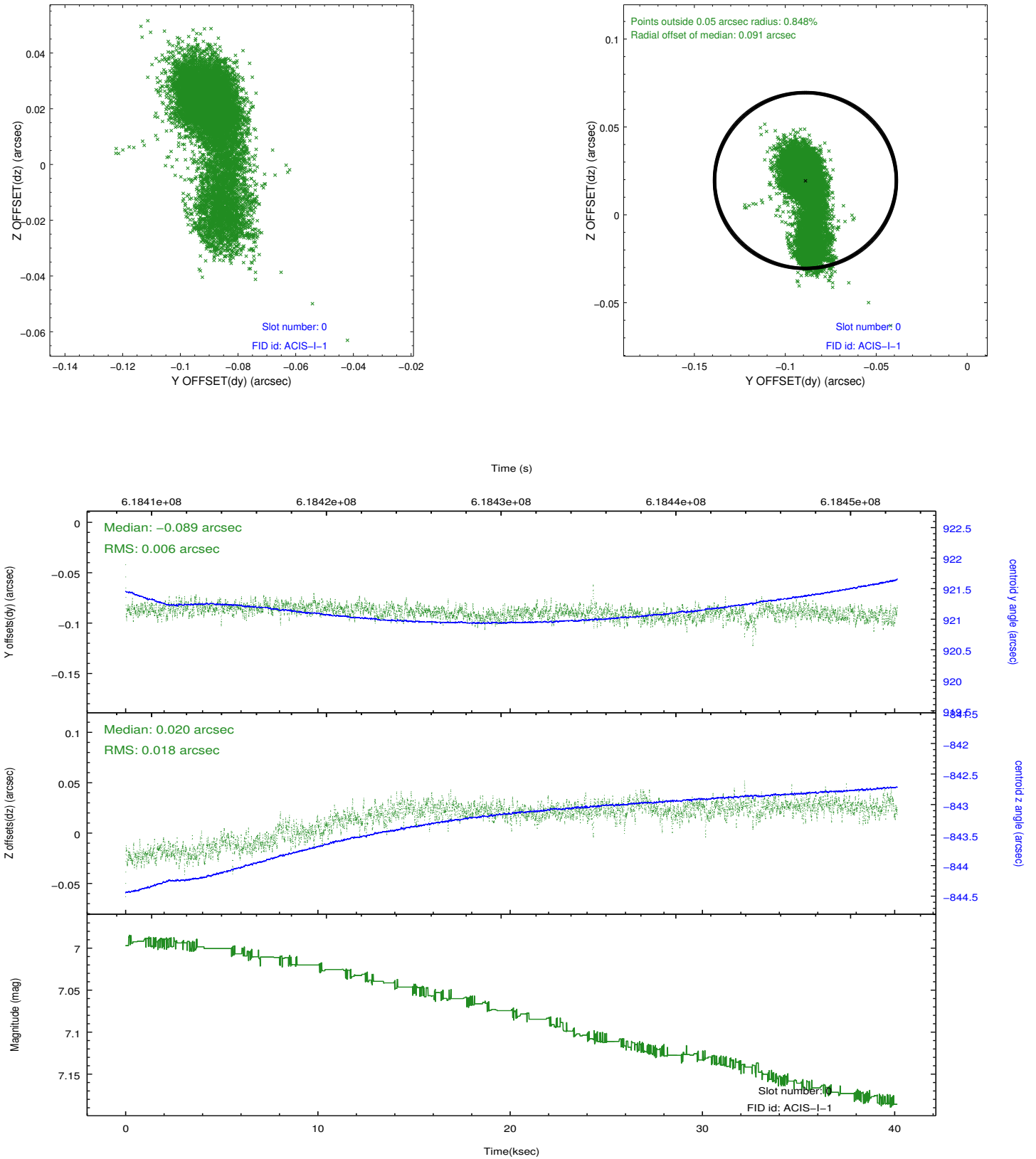


2.4.5 Slot 7

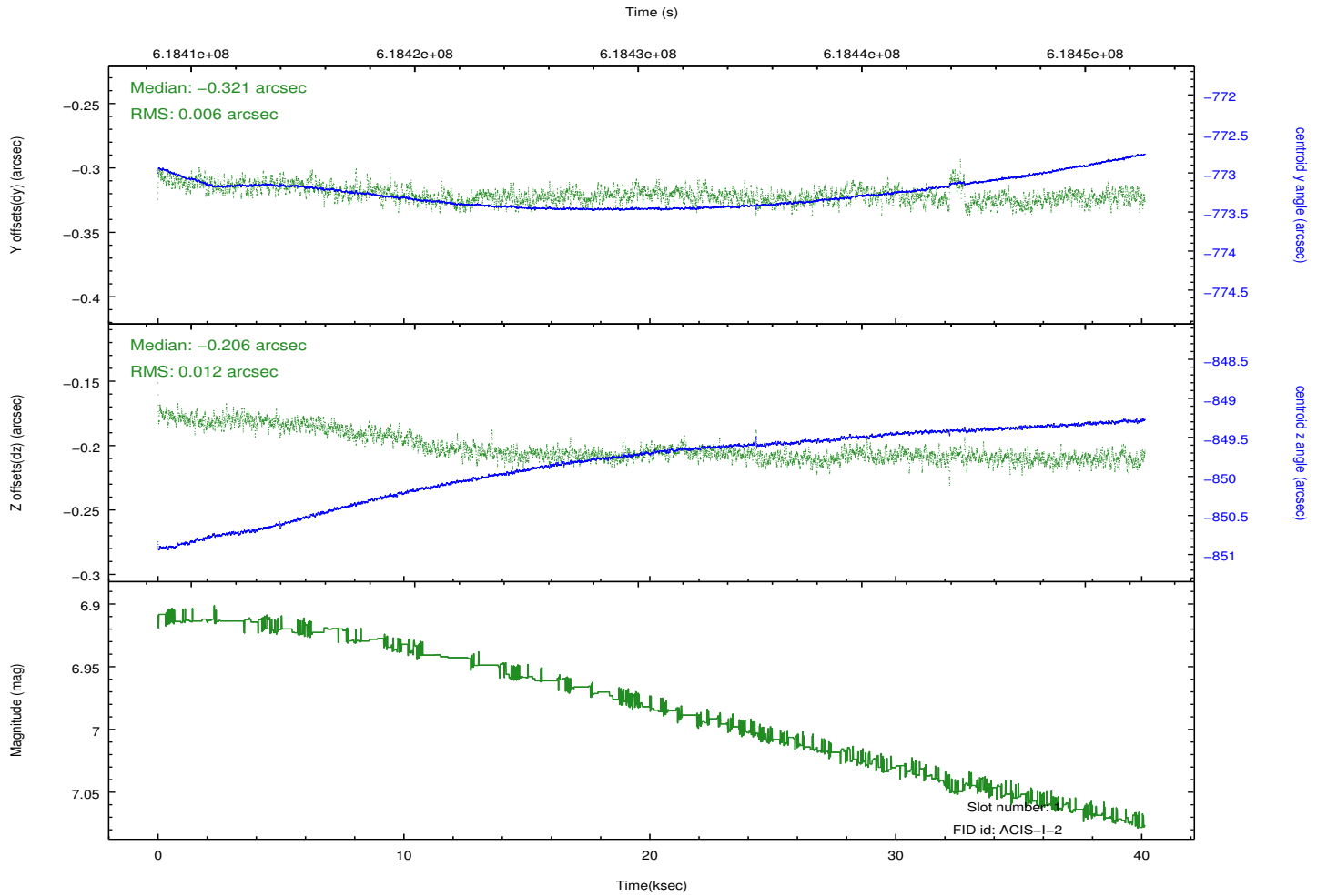
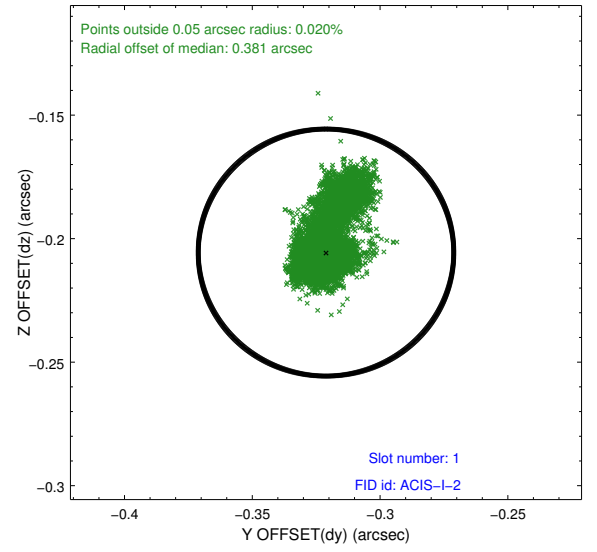
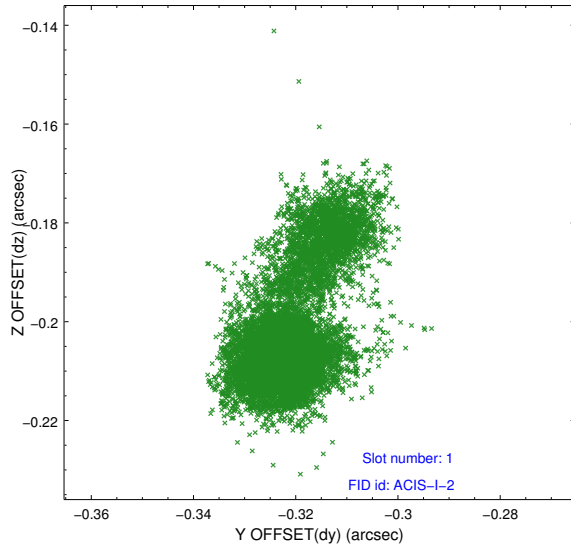


2.5 FID Slots

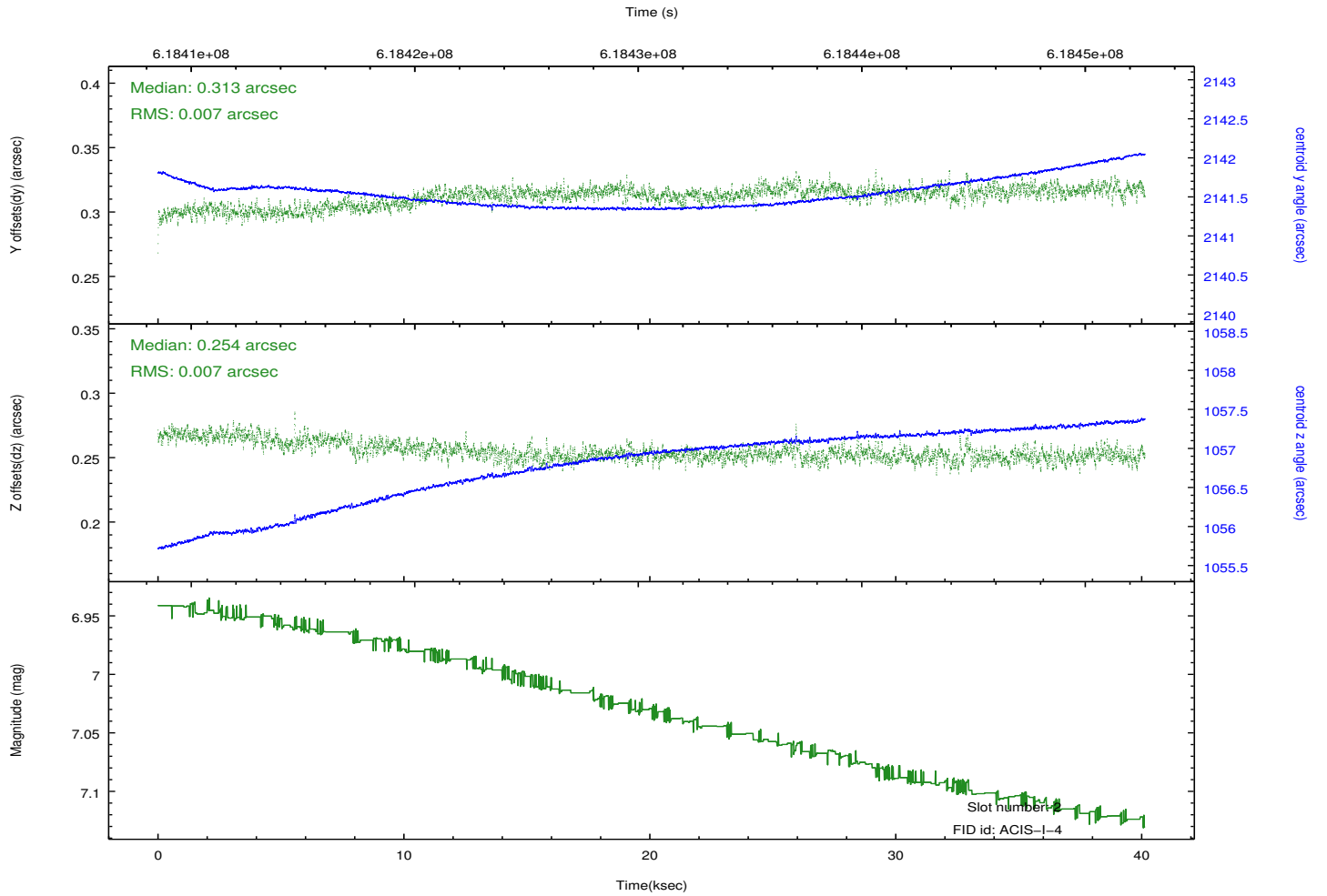
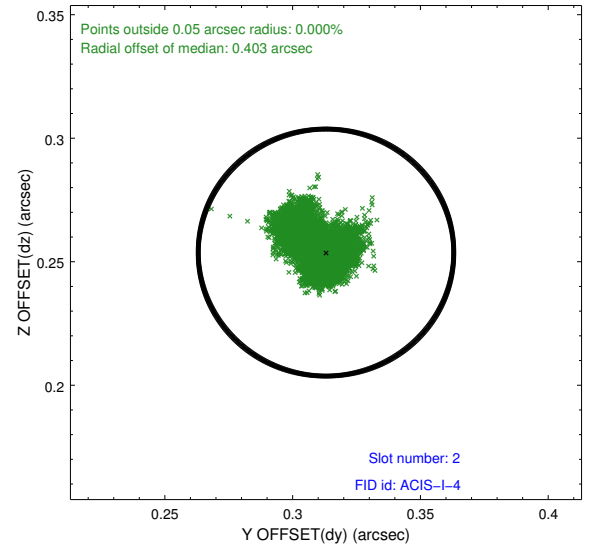
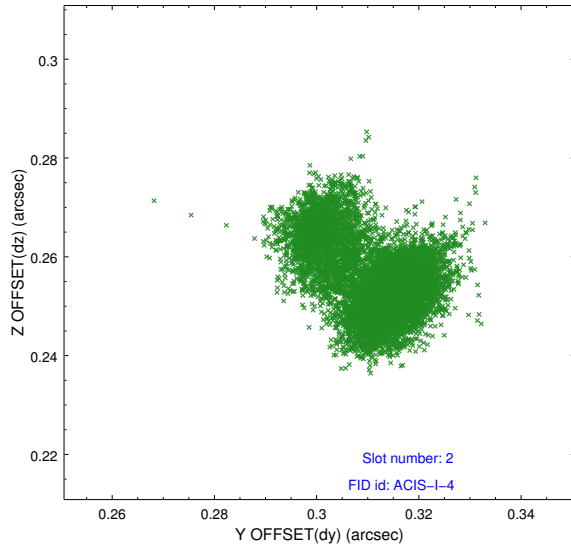
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.08.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.126359328508

A.2 Comments