

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 22852 - L2 Version 1
Chandra X-Ray Center

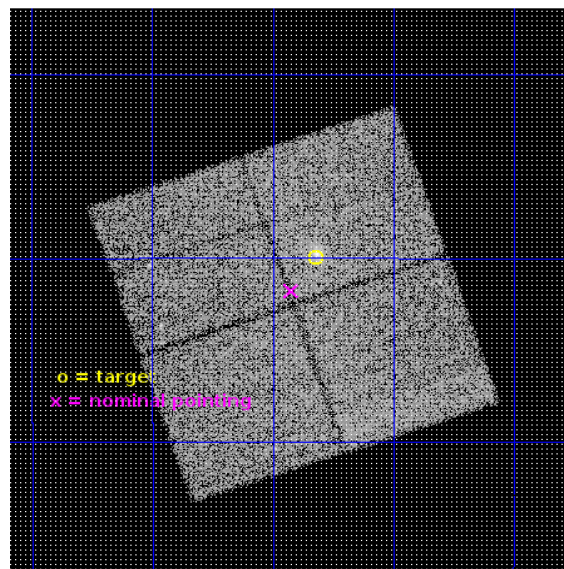
L2 Processing Date : Sep 22 2019

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1 Front

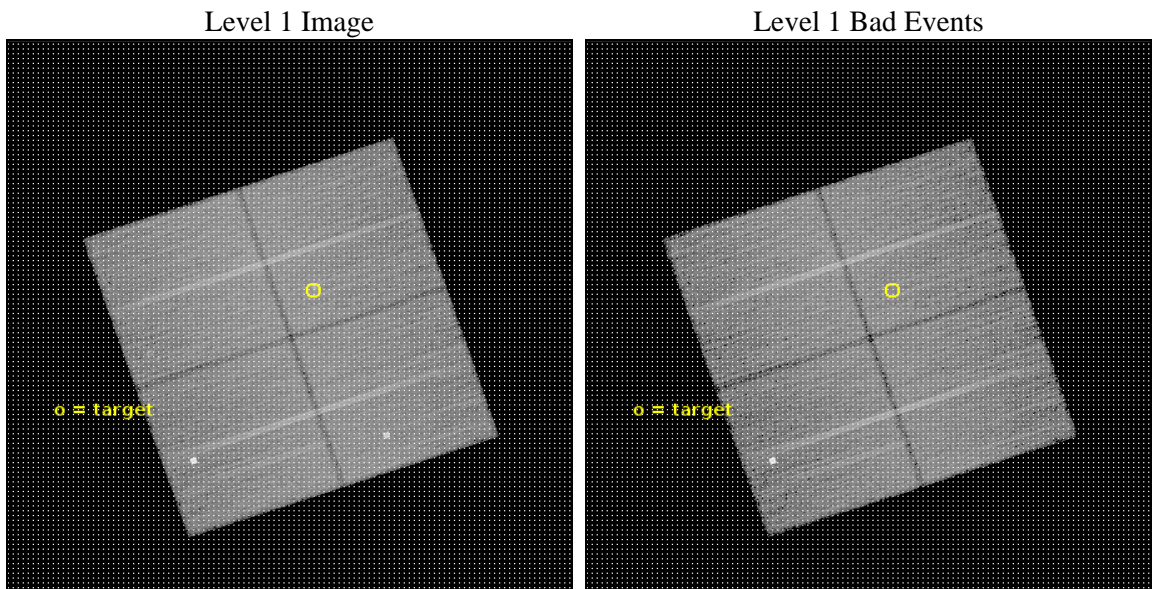
seq_num	801883	Sequence number
obs_id	22852	Observation id
title	Observing the Rarest Clusters at $z > 1$ with Chandra	Proposal title
observer	Michael McDonald	Principal investigator
object	SPT-CLJ2317-3239	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	349.455	Observer's specified target RA [deg]
dec_targ	-32.6656	Observer's specified target Dec [deg]
ra_nom	349.48062759735	Nominal RA [deg]
dec_nom	-32.696257112772	Nominal Dec [deg]
roll_nom	341.22254042493	Nominal Roll [deg]
revision	1	Processing version of data
ontime	34161.799535394	Sum of GTIs [s]
livetime	33715.450474913	Livetime [s]
ontime0	34161.676415563	Sum of GTIs [s]
ontime1	34164.858525634	Sum of GTIs [s]
ontime2	34161.758565545	Sum of GTIs [s]
ontime3	34161.799535394	Sum of GTIs [s]
l2events	101203	Number of level 2 events



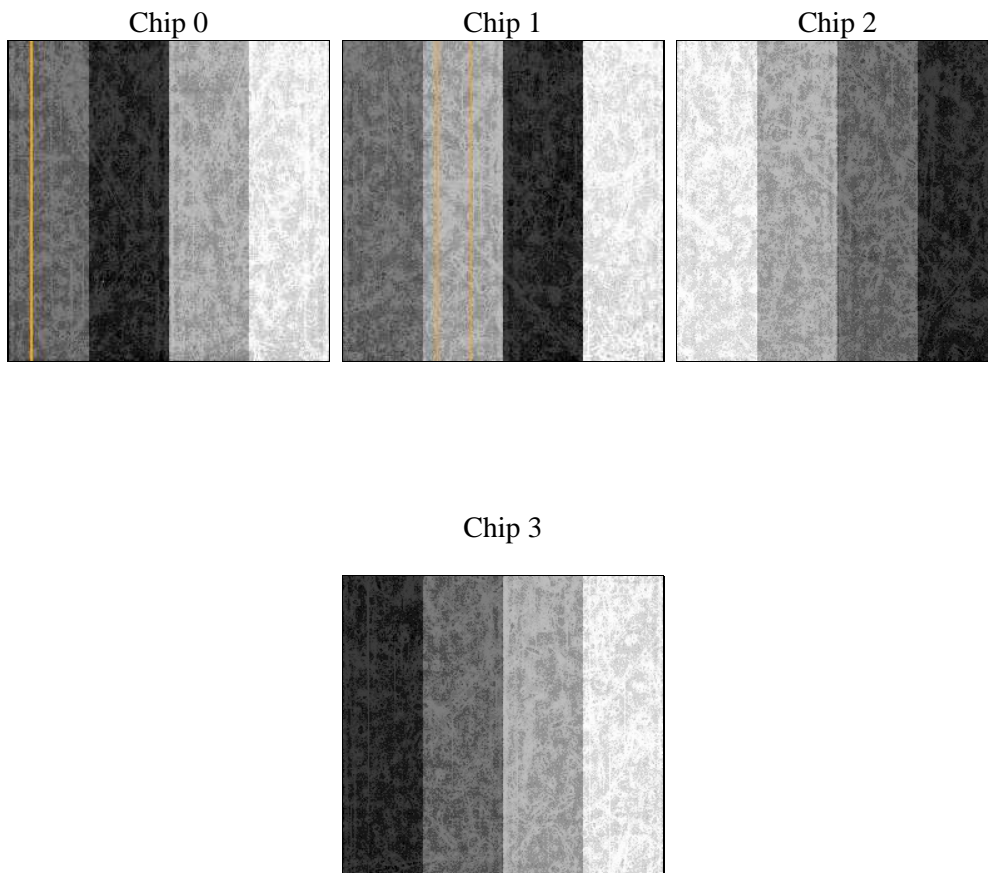
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	34083.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	34161.799535394	Sum of GTIs [s]
caldbver	4.8.4.1	 	ontime0	34161.676415563	Sum of GTIs [s]
date	2019-09-22T18:40:41	Date and time of file creation	ontime1	34164.858525634	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	34161.758565545	Sum of GTIs [s]
			ontime3	34161.799535394	Sum of GTIs [s]
			l1events	1036487	Number of level 1 events

2.1.4 Events

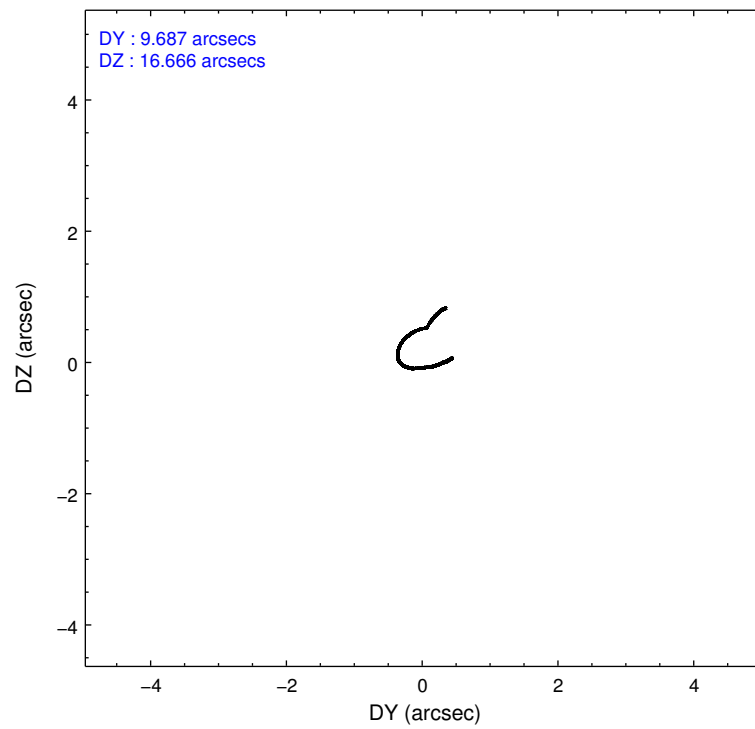
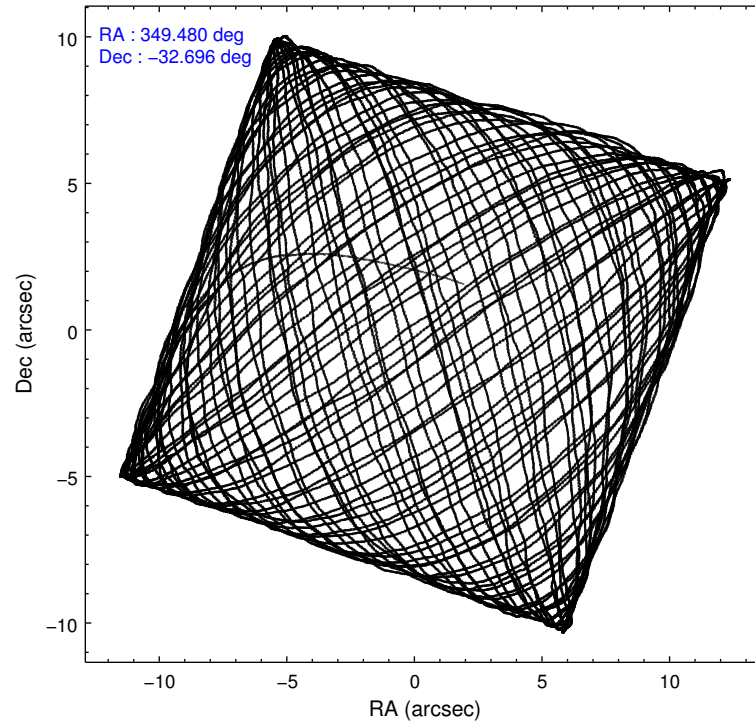
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	252832	258996	269616	255043
rejected events	222814	222591	240748	225196
rejected %	88%	85%	89%	88%

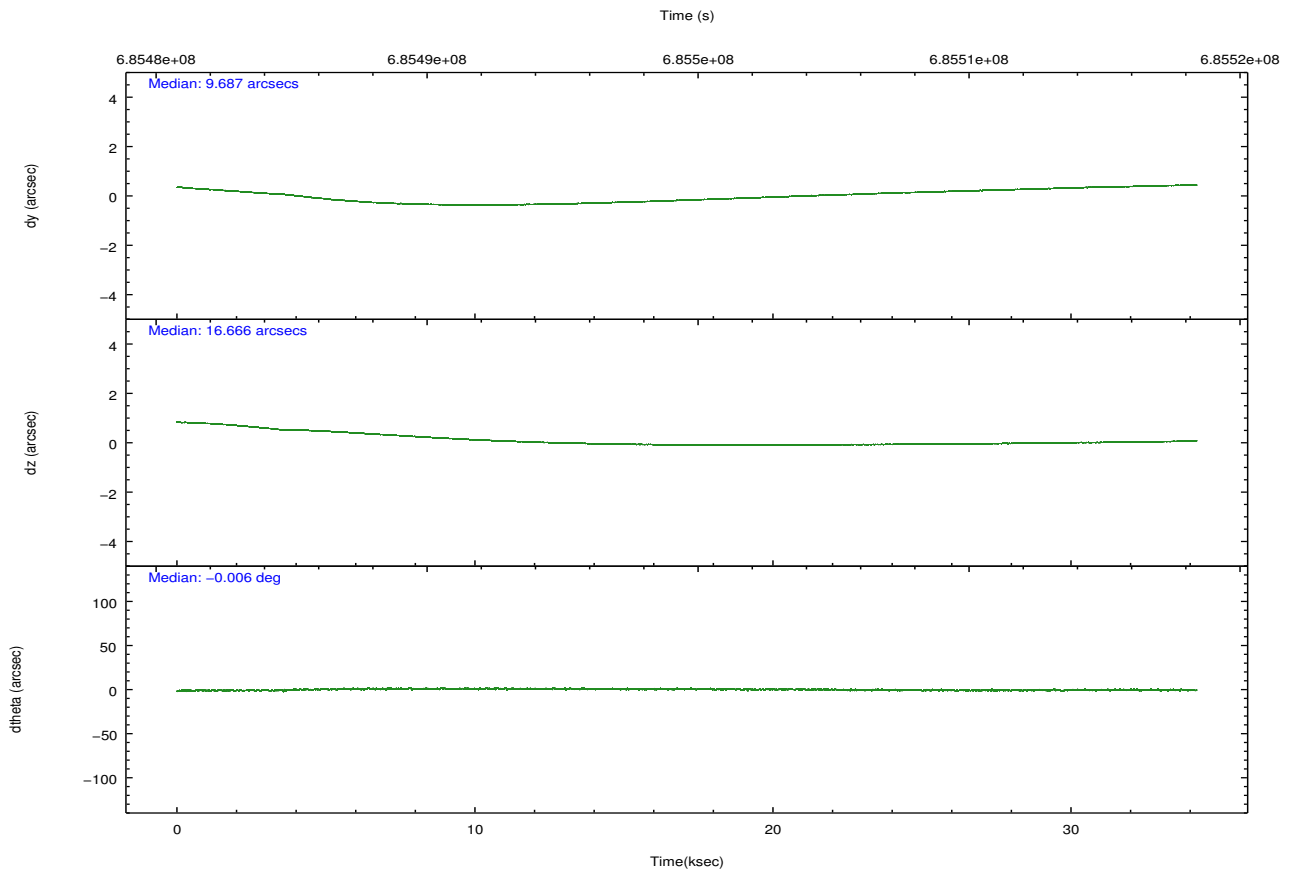
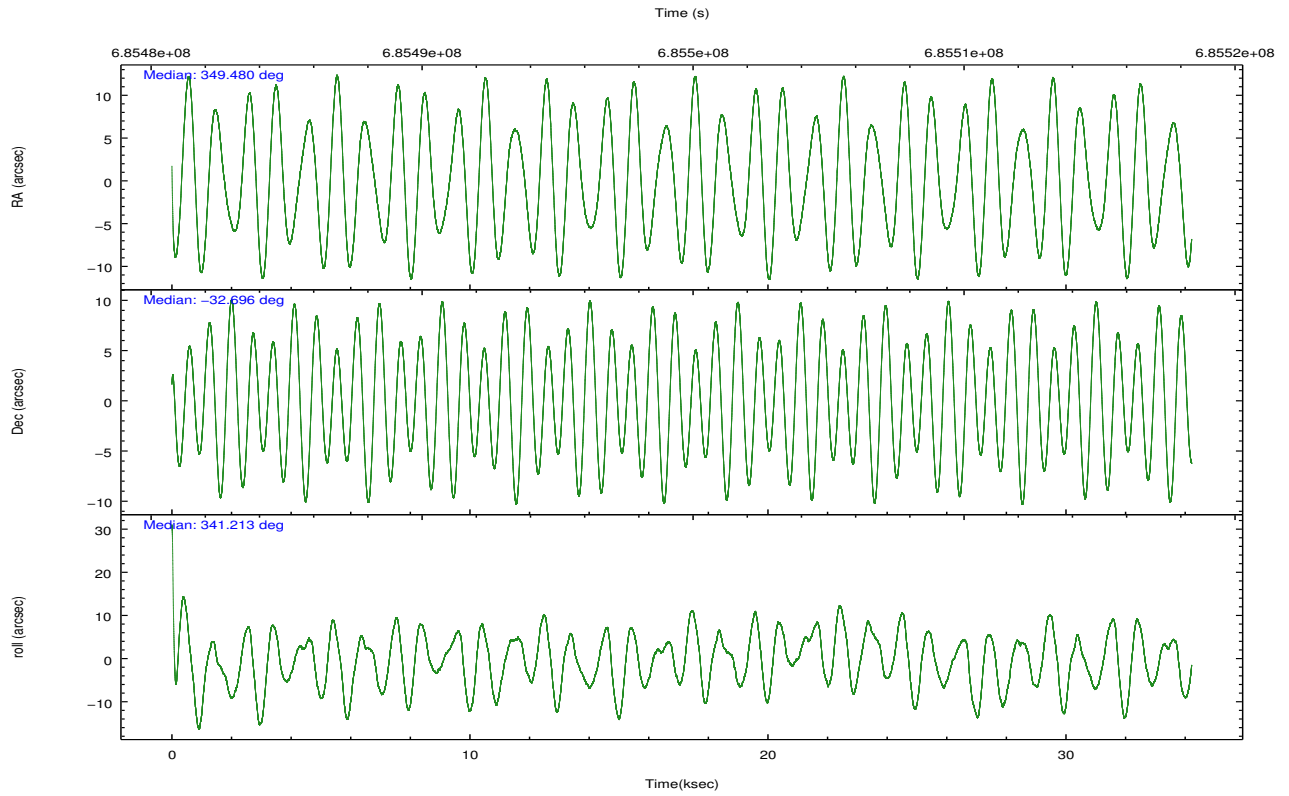
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9987	14728	10426	11345
	3%	5%	3%	4%
grade 1 events	149	163	158	158
	0%	0%	0%	0%
grade 2 events	7768	8075	7077	6622
	3%	3%	2%	2%
grade 3 events	3029	3145	2817	2915
	1%	1%	1%	1%
grade 4 events	2787	2858	2845	2849
	1%	1%	1%	1%
grade 5 events	11357	11653	10663	12490
	4%	4%	3%	4%
grade 6 events	6450	7604	5706	6120
	2%	2%	2%	2%
grade 7 events	211305	210770	229924	212544
	83%	81%	85%	83%

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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	349.448493	349.4806275973455	CCD I2 on	Y	Y
[deg] Pointing Dec	-32.701726	-32.6962571127724	CCD I3 on	Y	Y
[deg] Pointing Roll	340.996484	341.222540424931	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	685482614.184000	685481352.7281899	CCD S5 on	N	N
Observation start date	2019-09-21T19:49:05	2019-09-21T19:29:12	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	685516697.184000	685517465.0178601	On-chip summing requested	N	N
Observation end date	2019-09-22T05:17:08	2019-09-22T05:31:05	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





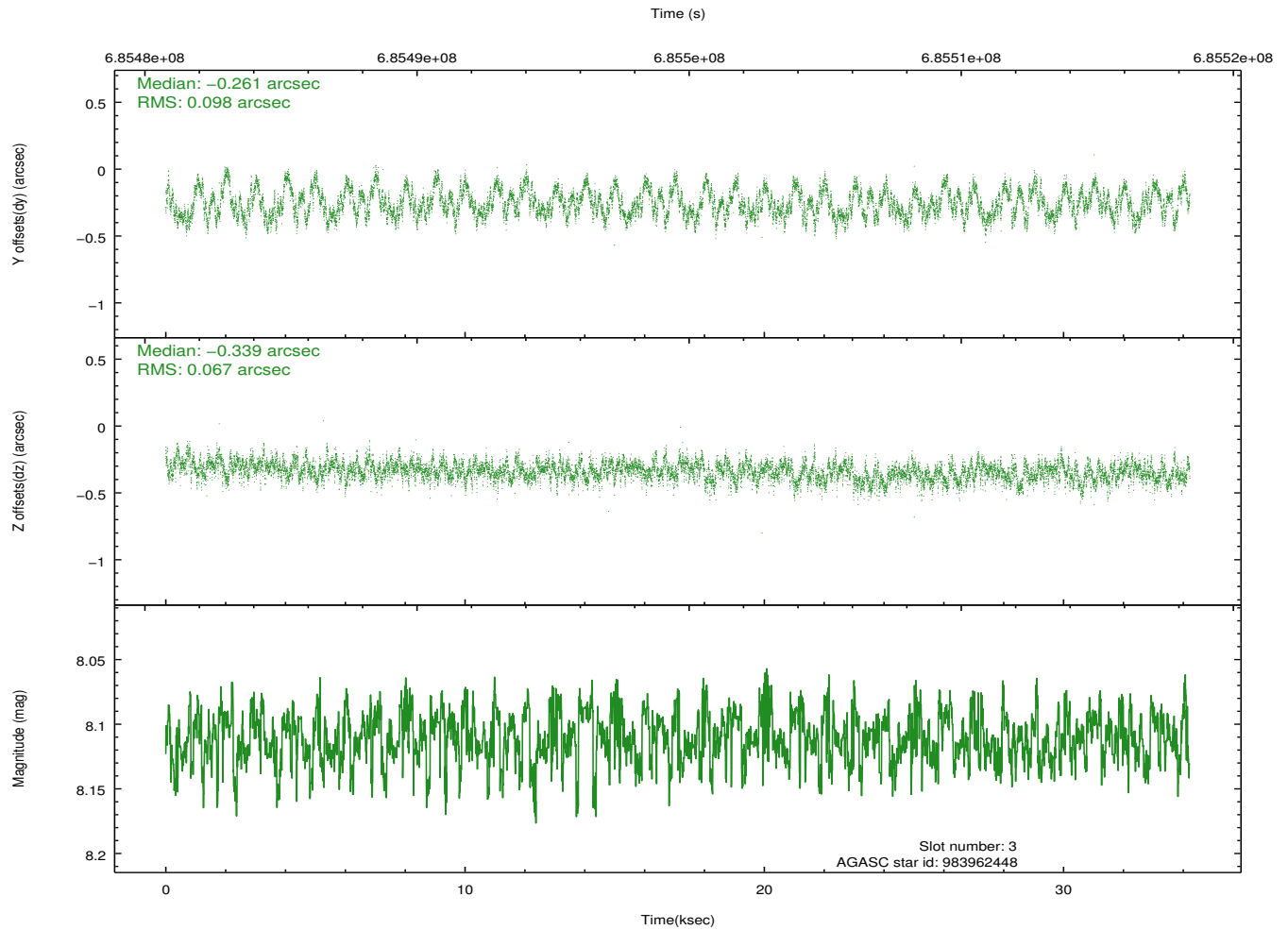
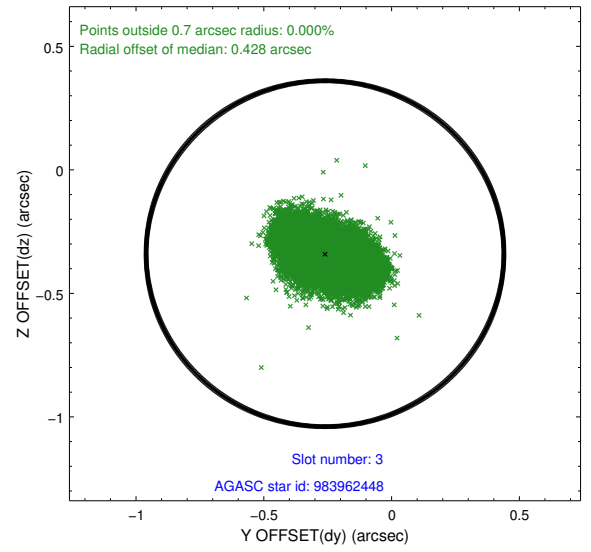
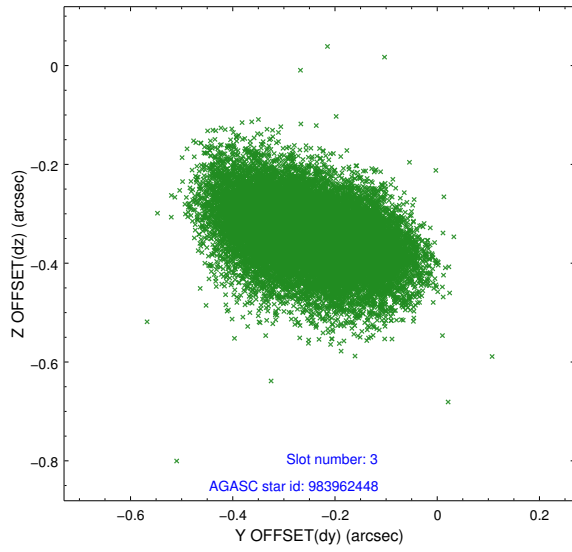
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.16	8345	1.000	0.119	-0.149	0.015	0.033	0.000000	0.000000	930.10	-840
1	FID		ACIS-I-5	7.13	8346	1.000	-0.461	0.028	0.011	0.017	0.000000	0.000000	-1818.70	1056
2	FID		ACIS-I-6	7.11	8346	1.000	0.252	0.196	0.014	0.049	0.000000	0.000000	395.55	1701
3	GUIDE	used	983962448	8.11	16682	1.000	-0.261	-0.339	0.128	0.203	349.544688	-32.067581	-465.70	2253
4	GUIDE	used	984354640	9.68	16634	1.000	0.135	0.652	0.248	0.387	348.543799	-33.053861	-2158.32	-2099
5	GUIDE	used	984354952	9.03	16678	1.000	-0.256	-0.317	0.244	0.358	349.982241	-32.587616	1398.38	911
6	GUIDE	used	984355056	9.30	16659	1.000	0.155	-0.066	0.173	0.296	349.917973	-33.224211	1950.79	-1322
7	GUIDE	used	984356688	8.89	16675	1.000	0.201	0.068	0.219	0.328	349.452747	-33.435773	873.88	-2494

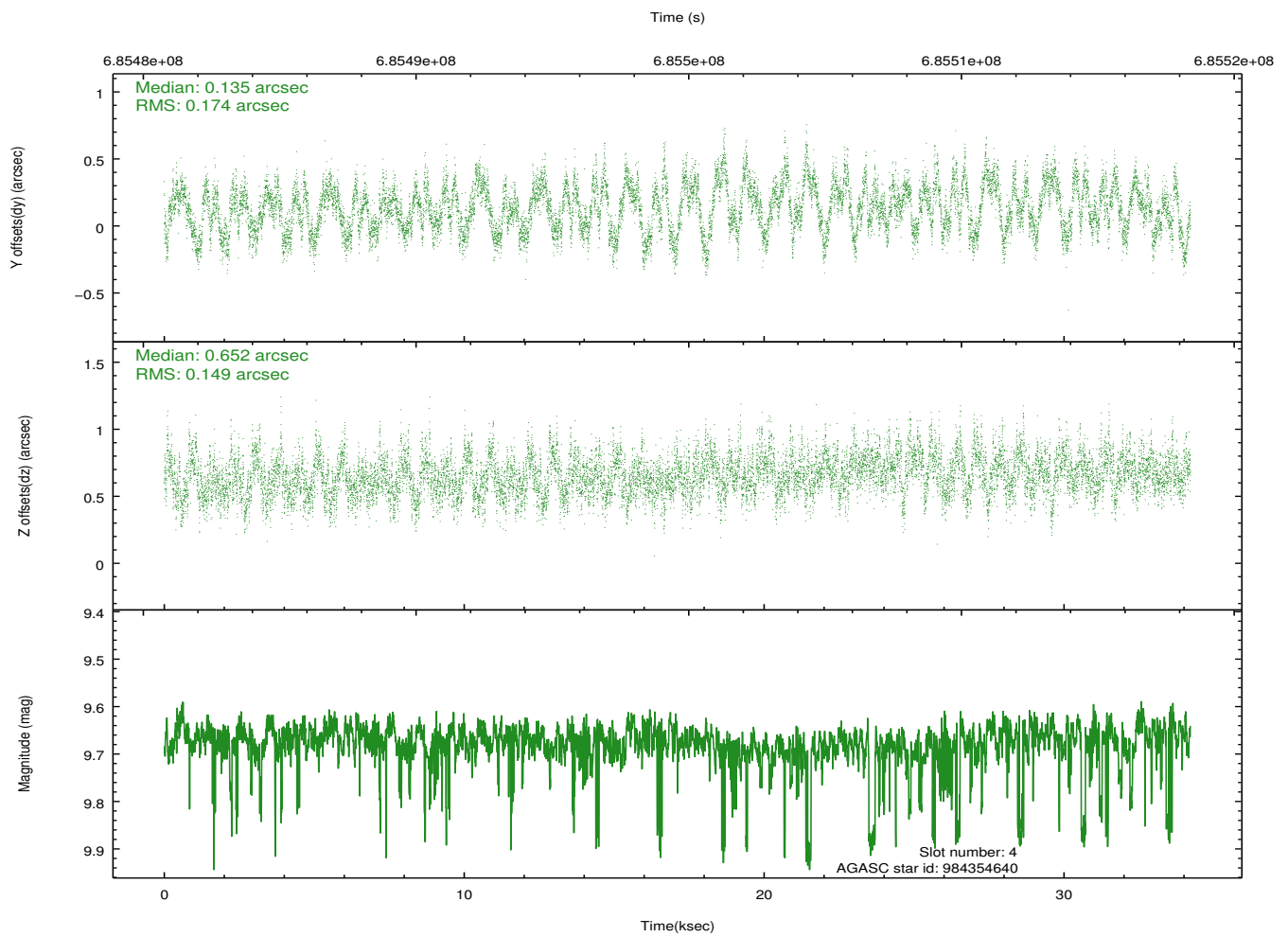
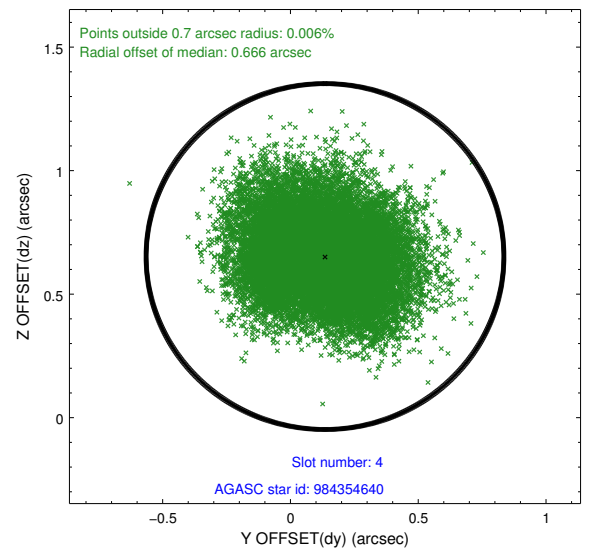
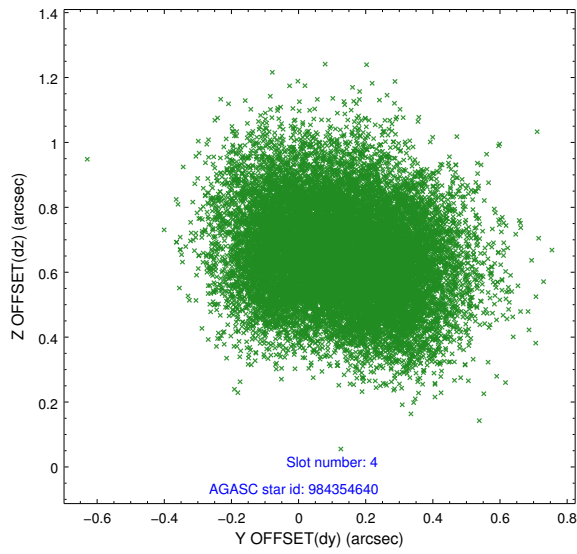
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2.4 Star Slots

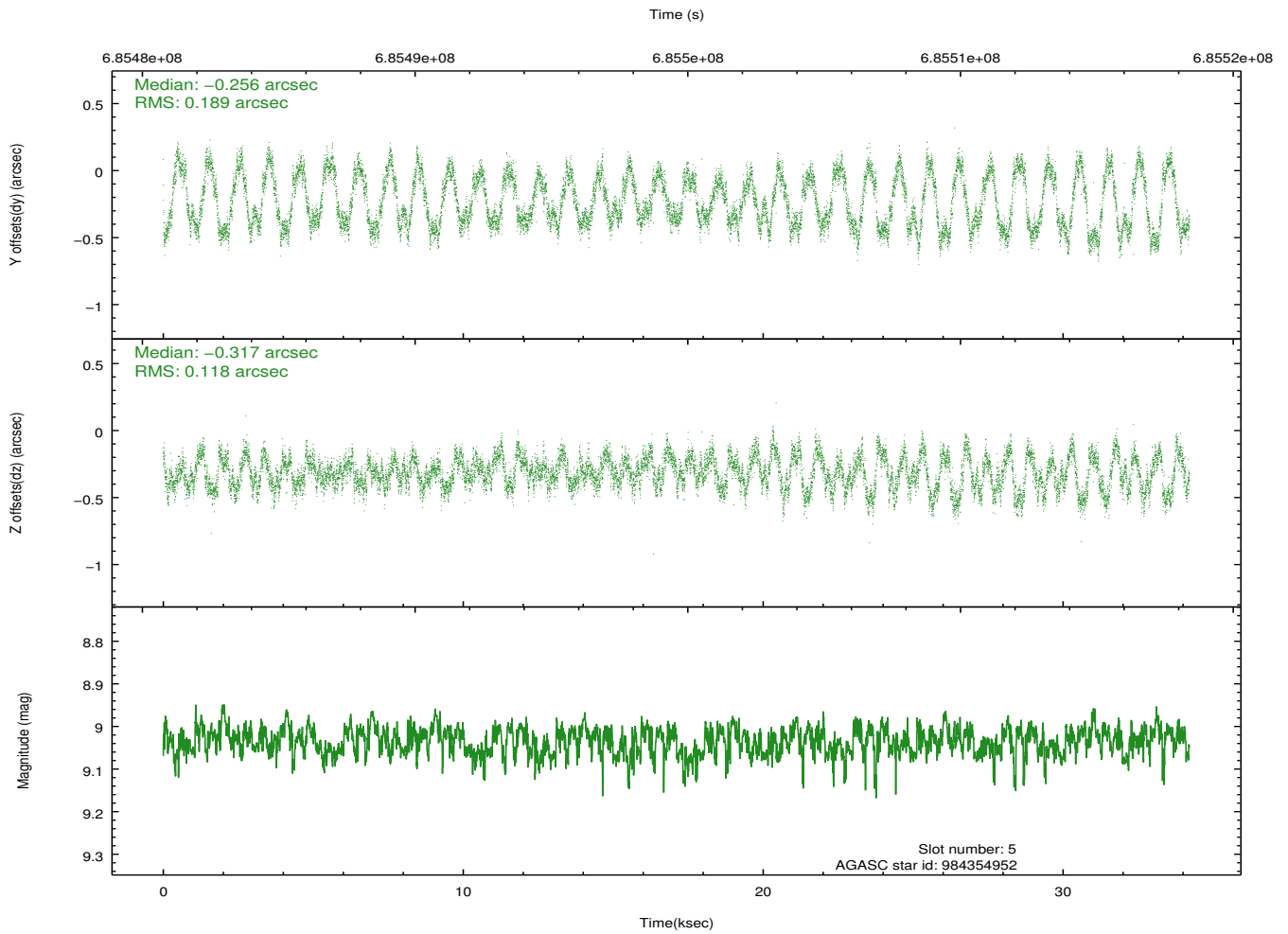
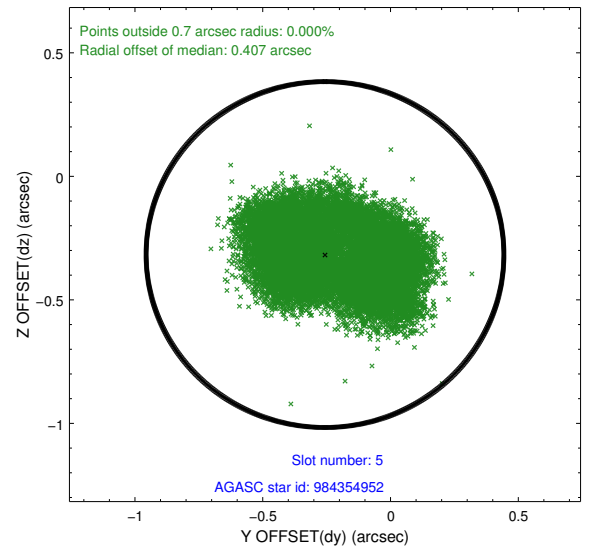
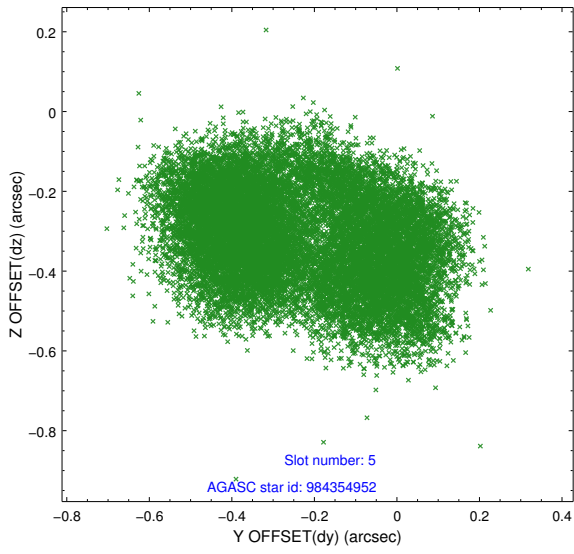
2.4.1 Slot 3



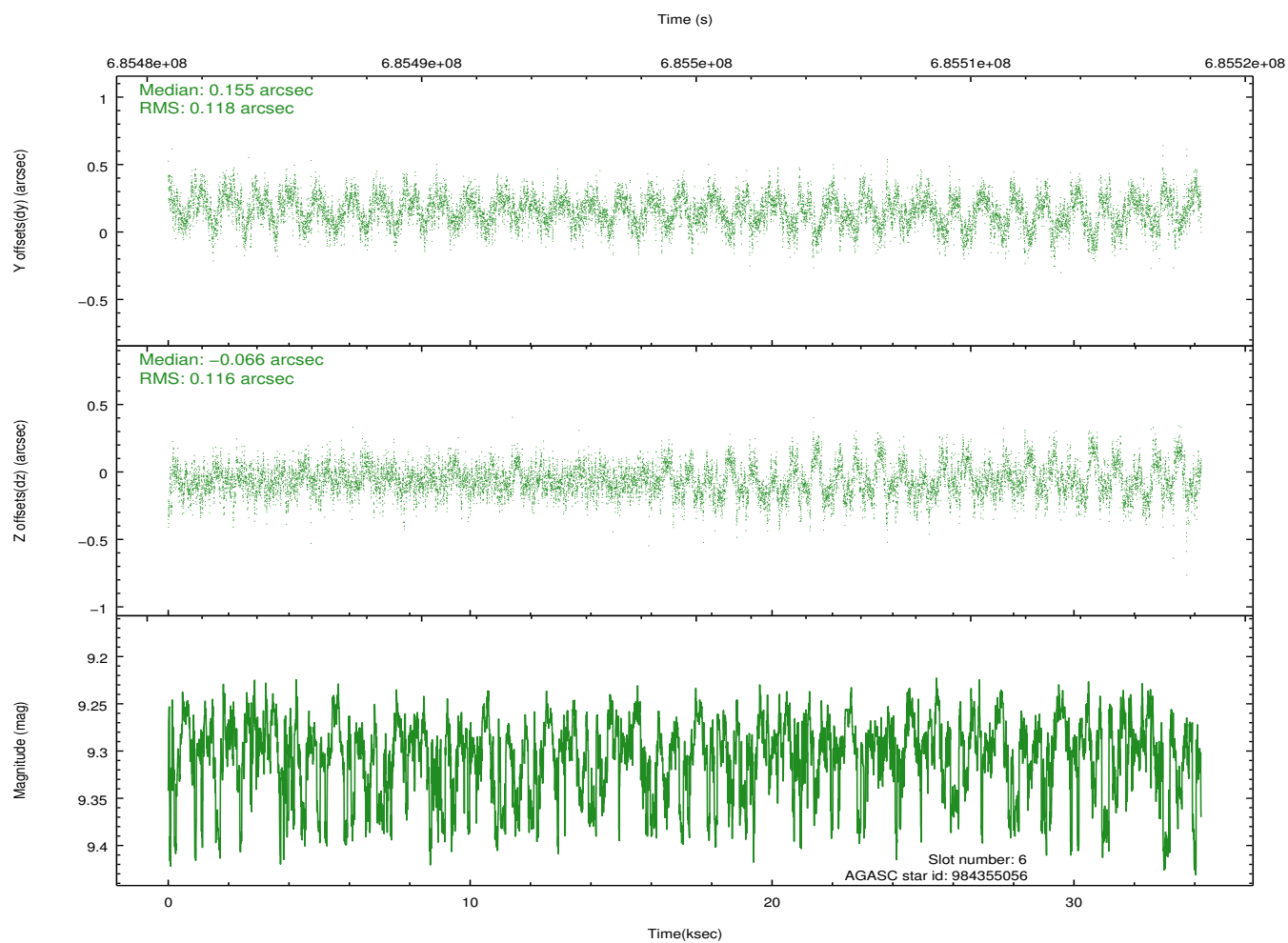
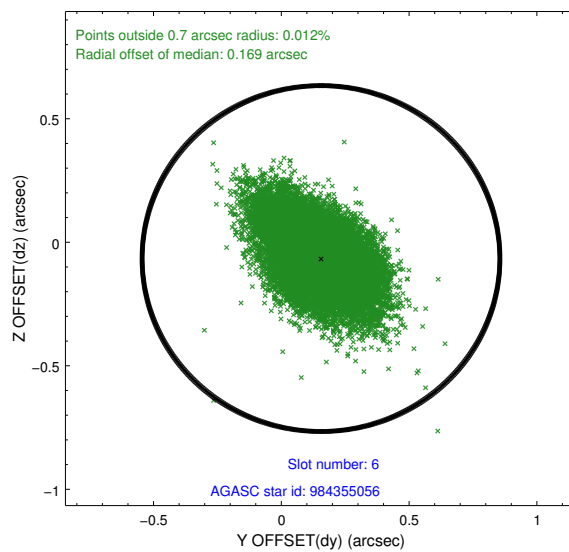
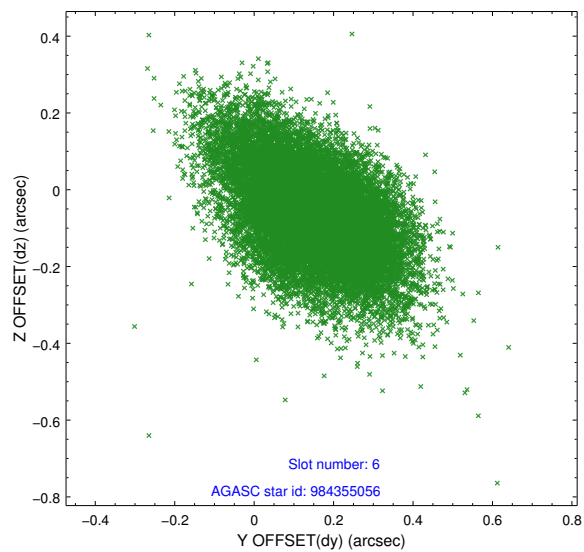
2.4.2 Slot 4



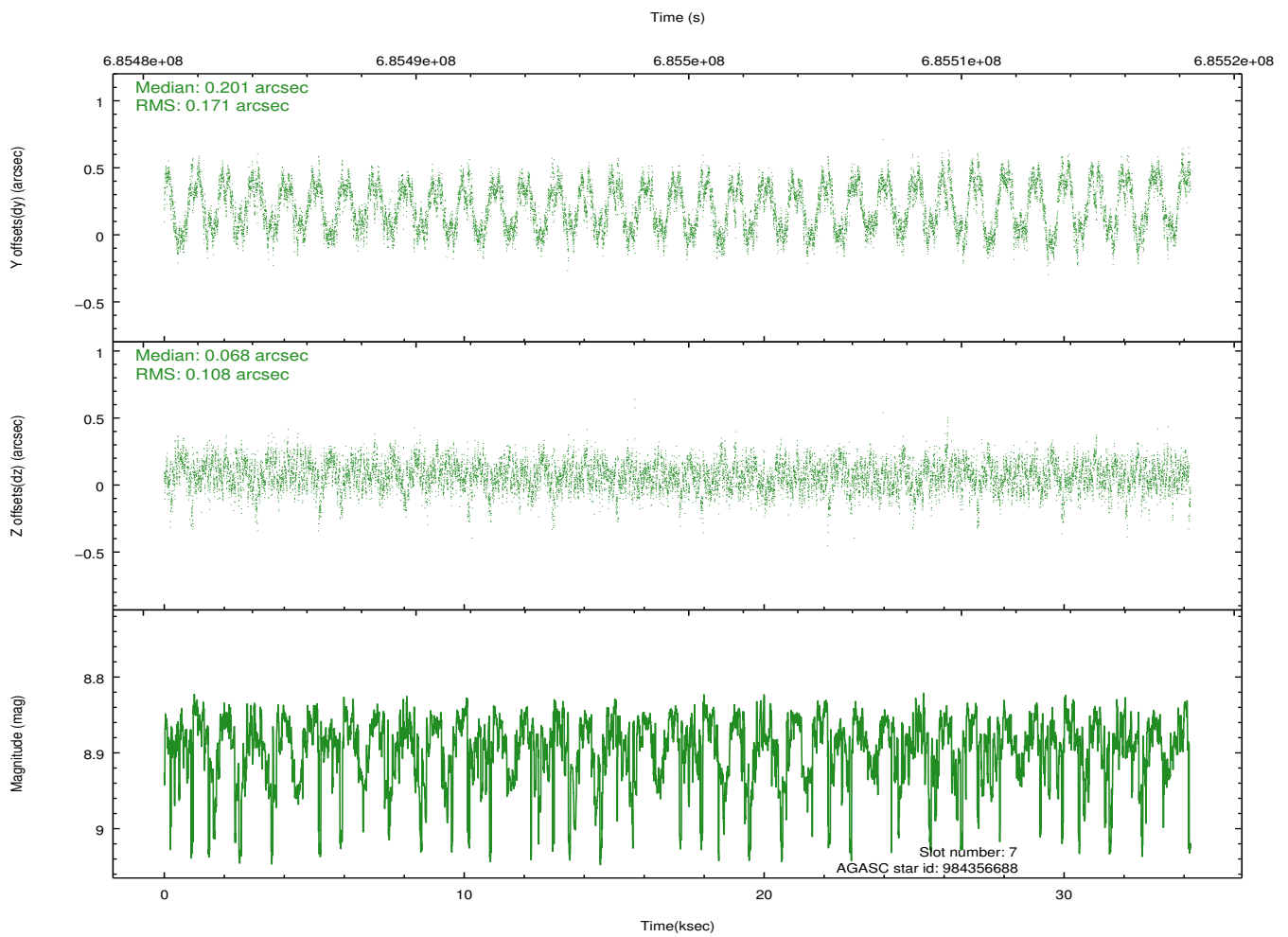
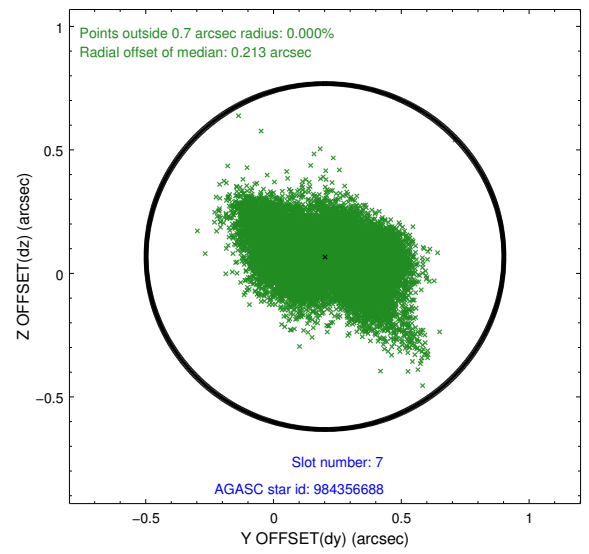
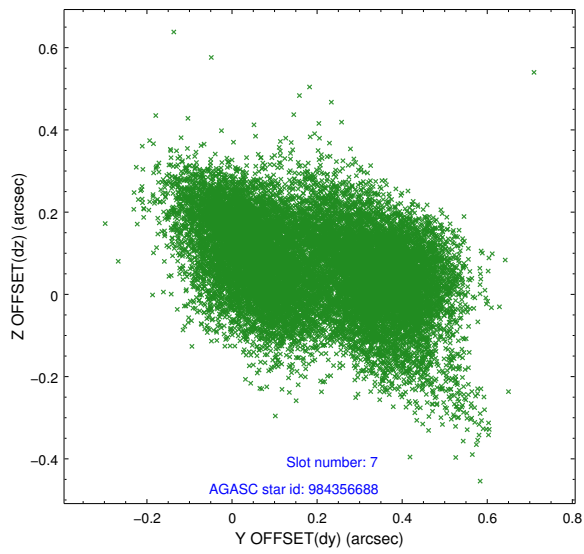
2.4.3 Slot 5



2.4.4 Slot 6

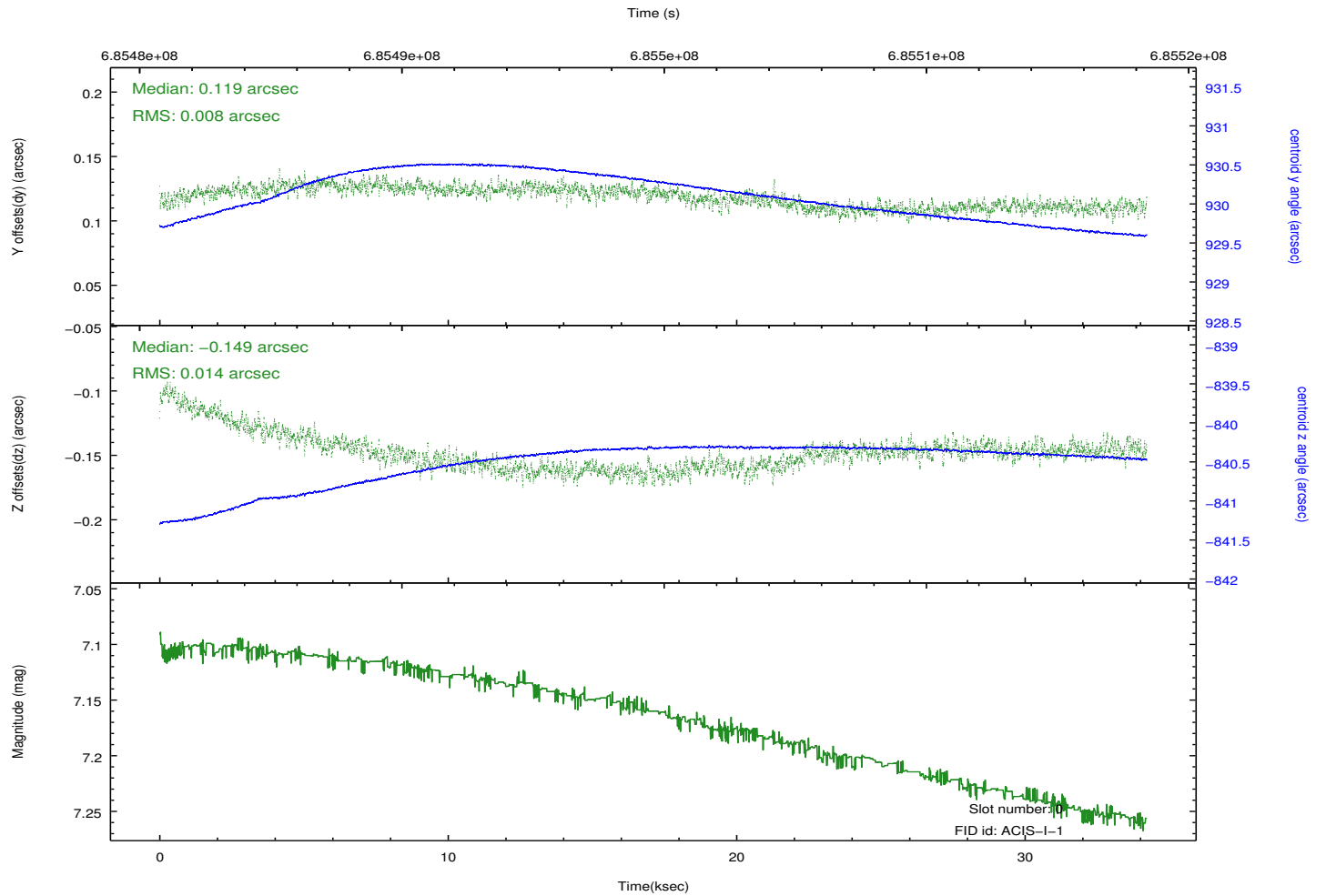
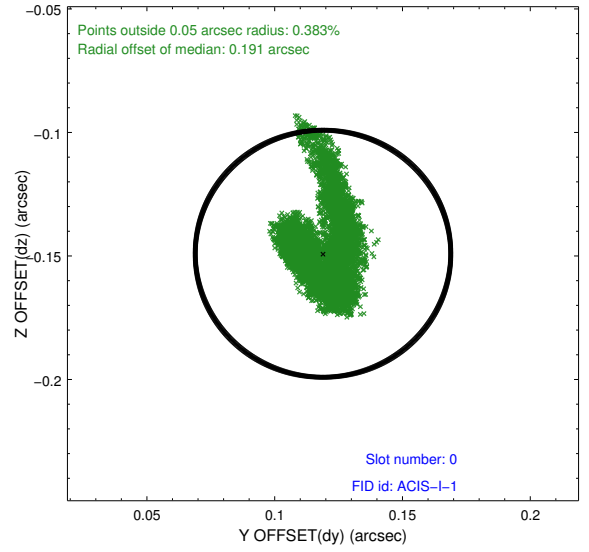
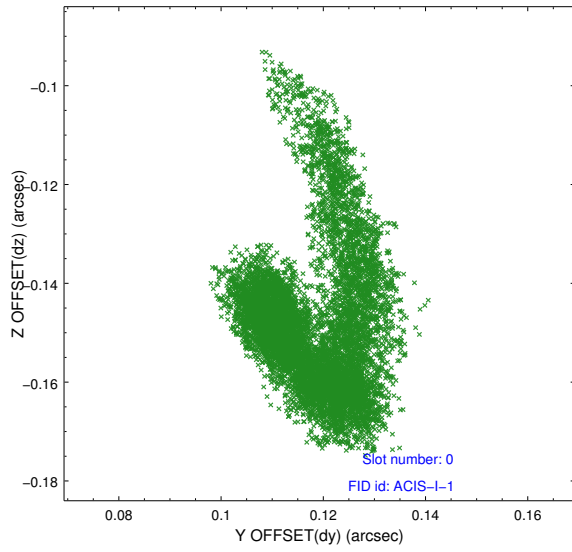


2.4.5 Slot 7

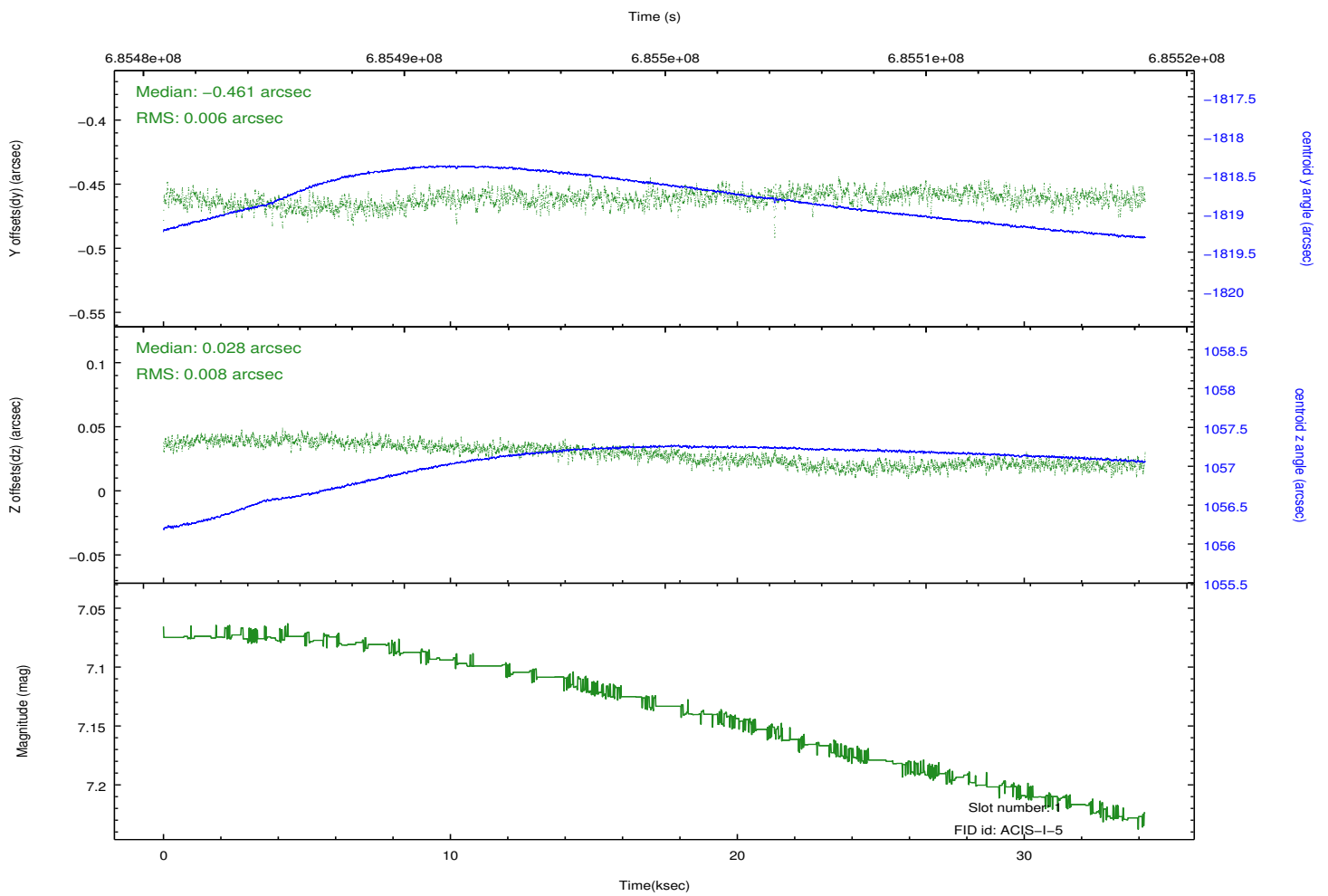
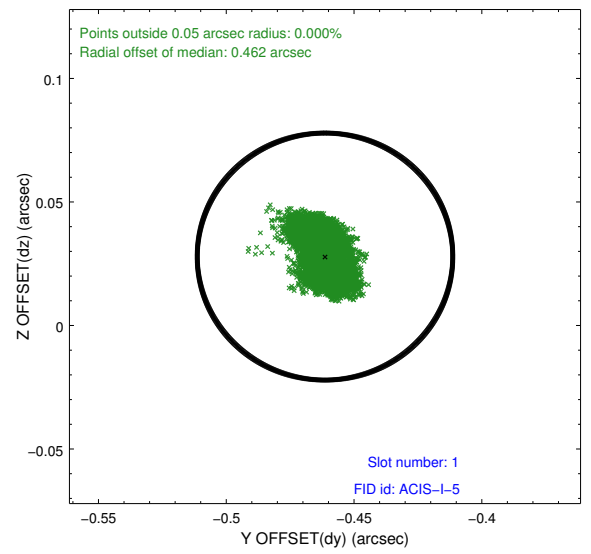
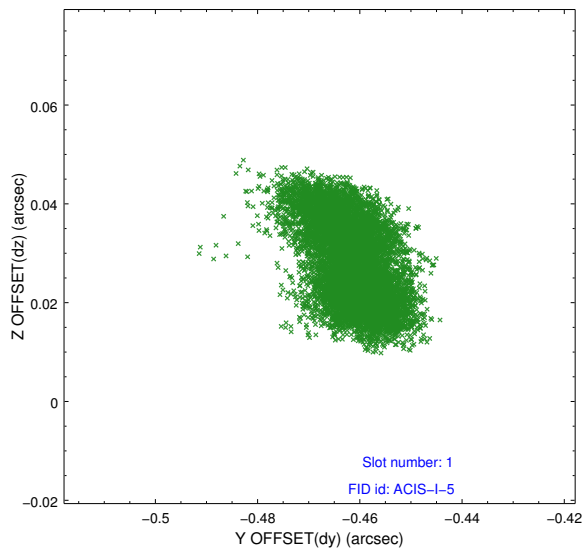


2.5 FID Slots

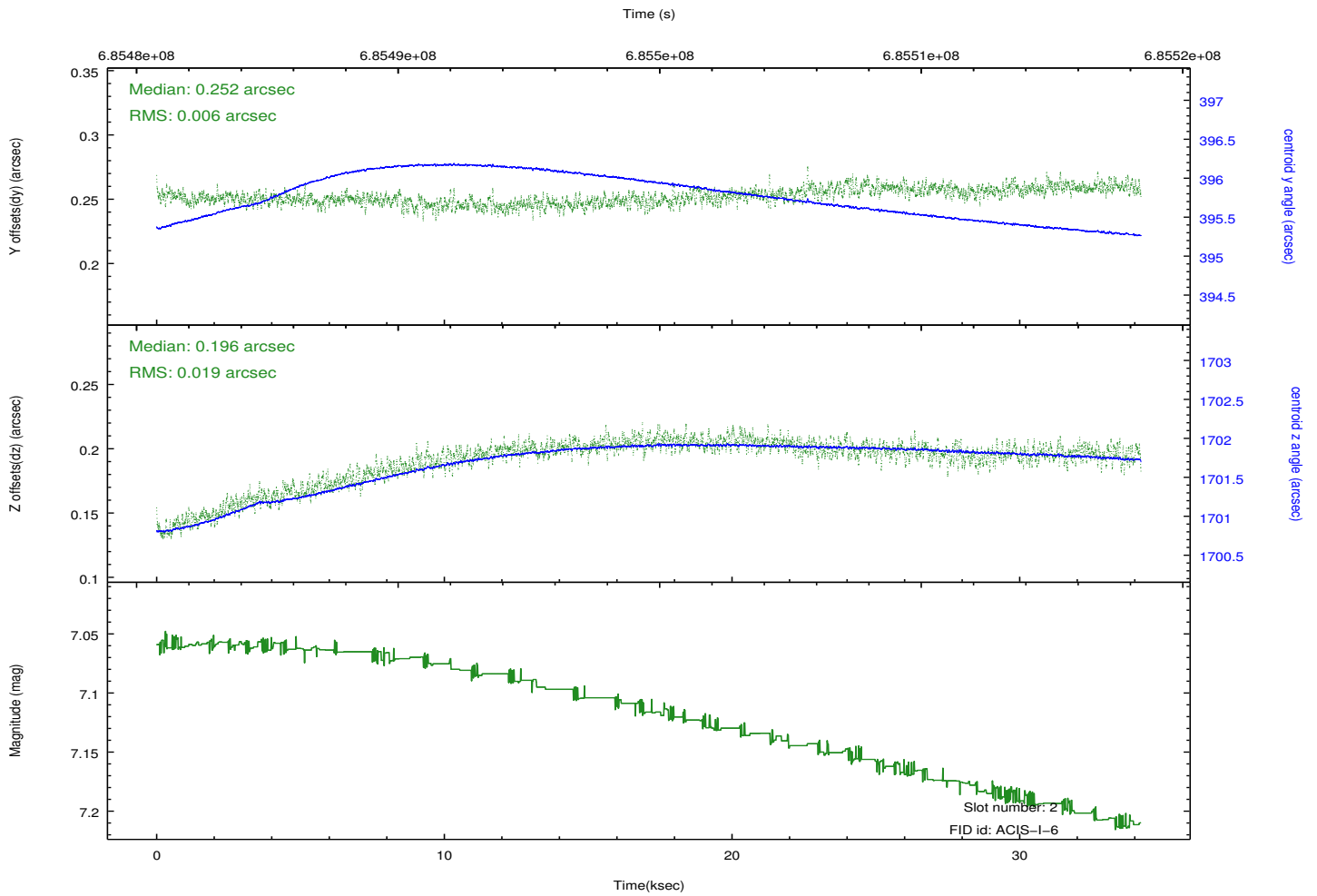
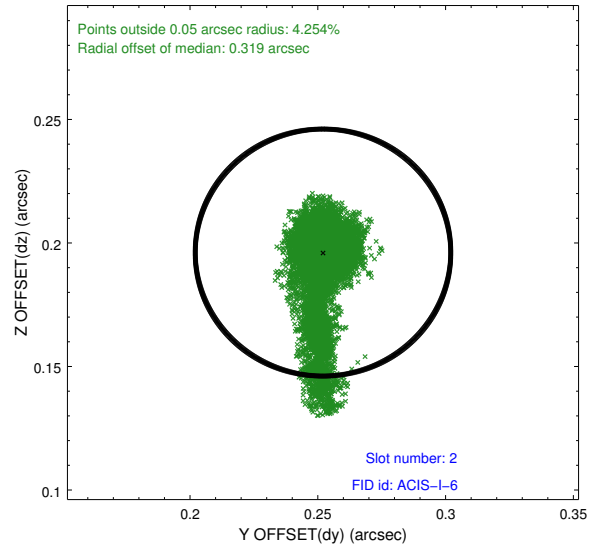
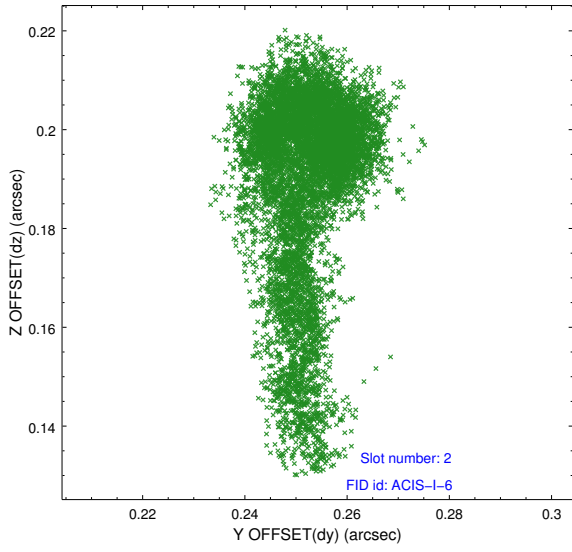
2.5.1 Slot 0



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)	2019.09.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.161799535394

A.2 Comments

One optional chip was dropped.