

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 22301 - L2 Version 1
Chandra X-Ray Center

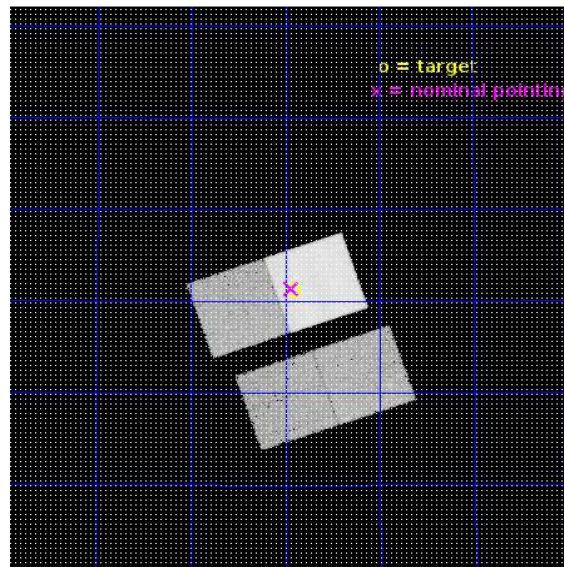
L2 Processing Date : Sep 19 2019

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1 Front

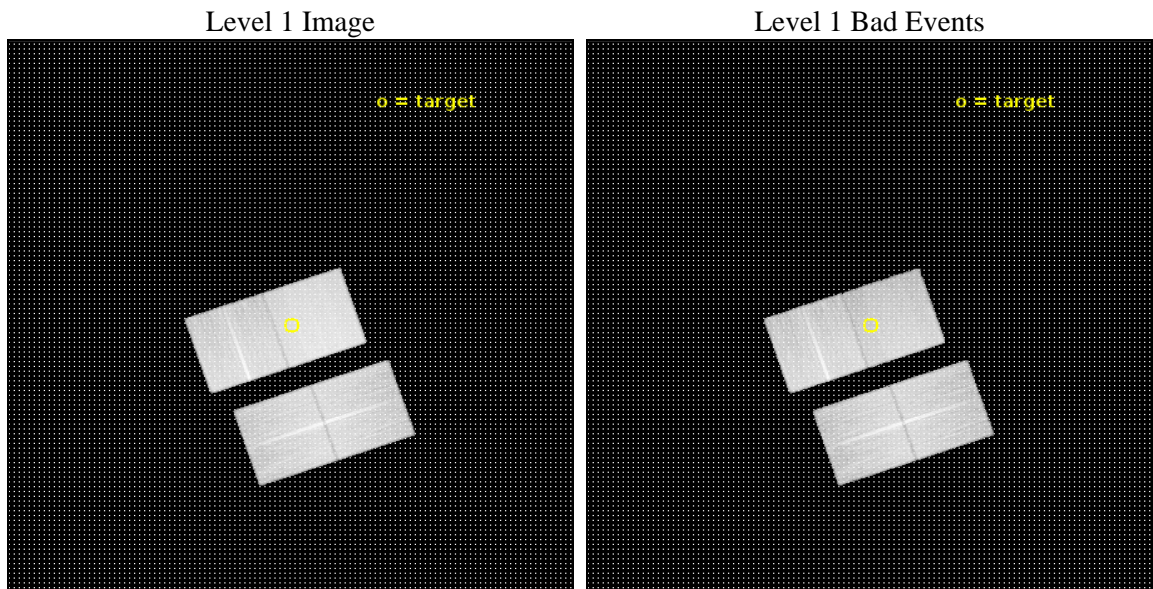
seq_num	201271	Sequence number
obs_id	22301	Observation id
title	Rejuvenation of the Innocent Bystander: Spin-Up in the Nearest Dwarf Carbon Stars	Proposal title
observer	Paul Green	Principal investigator
object	124055.1+485114	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	190.229792	Observer's specified target RA [deg]
dec_targ	48.8539	Observer's specified target Dec [deg]
ra_nom	190.23385167995	Nominal RA [deg]
dec_nom	48.856651660135	Nominal Dec [deg]
roll_nom	341.07624839626	Nominal Roll [deg]
revision	1	Processing version of data
ontime	37265.100286722	Sum of GTIs [s]
livetime	36778.204317308	Livetime [s]
ontime2	37252.536305785	Sum of GTIs [s]
ontime3	37252.53652513	Sum of GTIs [s]
ontime6	37265.100286722	Sum of GTIs [s]
ontime7	37265.100286722	Sum of GTIs [s]
l2events	239215	Number of level 2 events



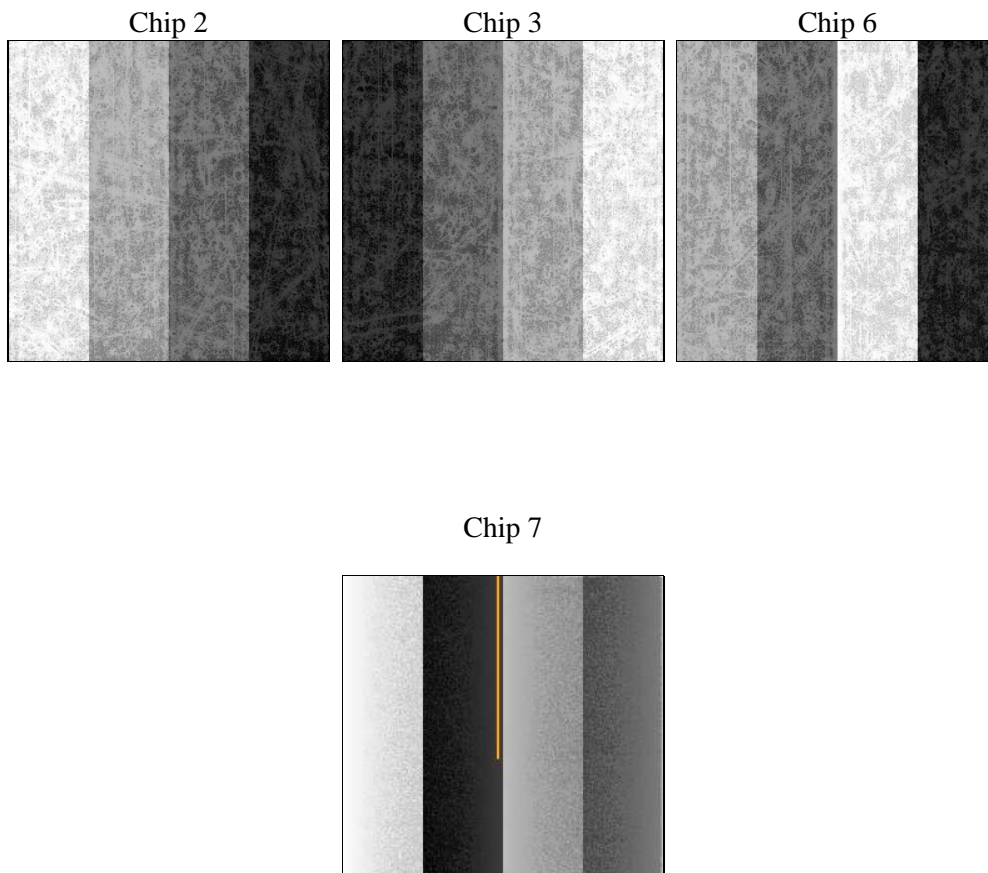
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	37200.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	37265.100286722	Sum of GTIs [s]
caldsver	4.8.4.1	 	ontime2	37252.536305785	Sum of GTIs [s]
date	2019-09-19T20:07:02	Date and time of file creation	ontime3	37252.53652513	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	37265.100286722	Sum of GTIs [s]
			ontime7	37265.100286722	Sum of GTIs [s]
			l1events	1220800	Number of level 1 events

2.1.4 Events

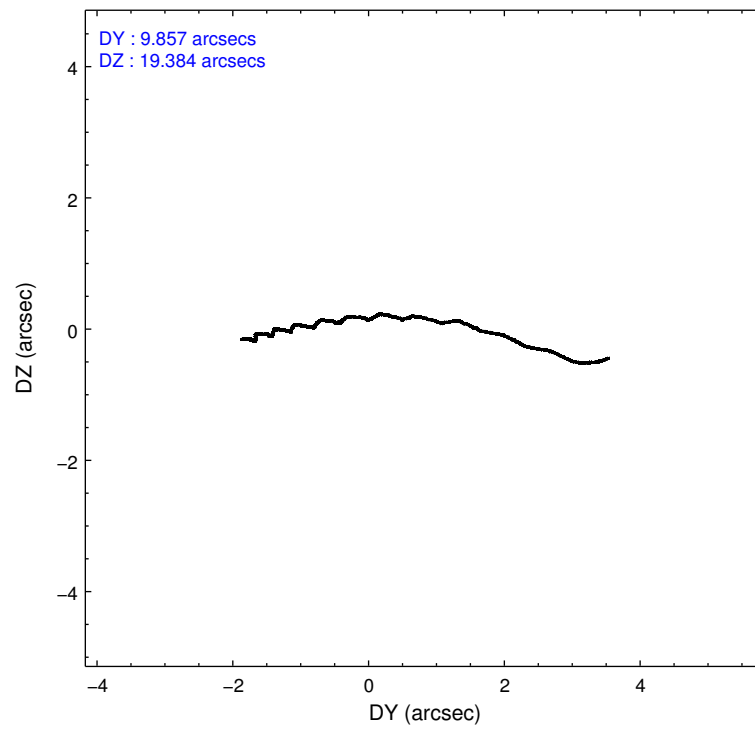
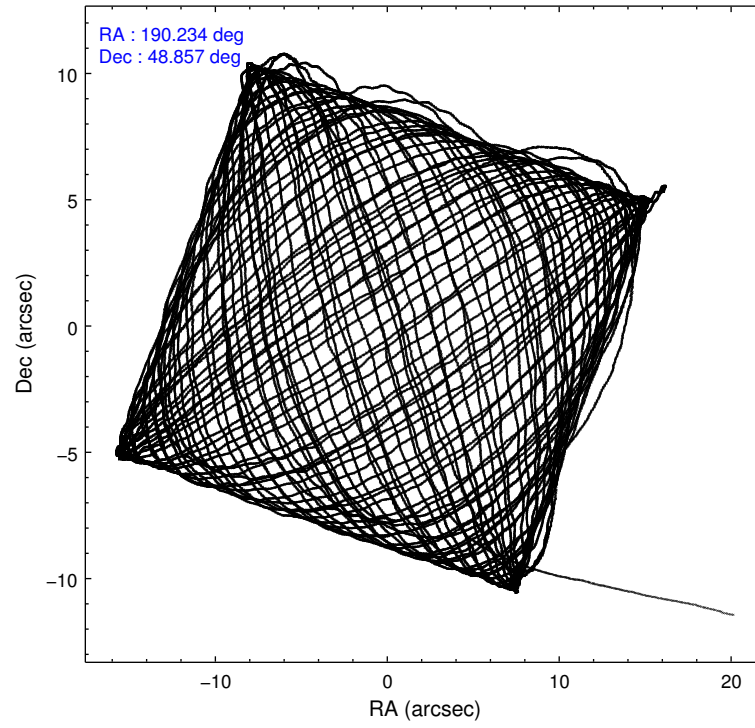
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	284264	274052	293296	369188
rejected events	253041	242321	260550	208616
rejected %	89%	88%	88%	56%

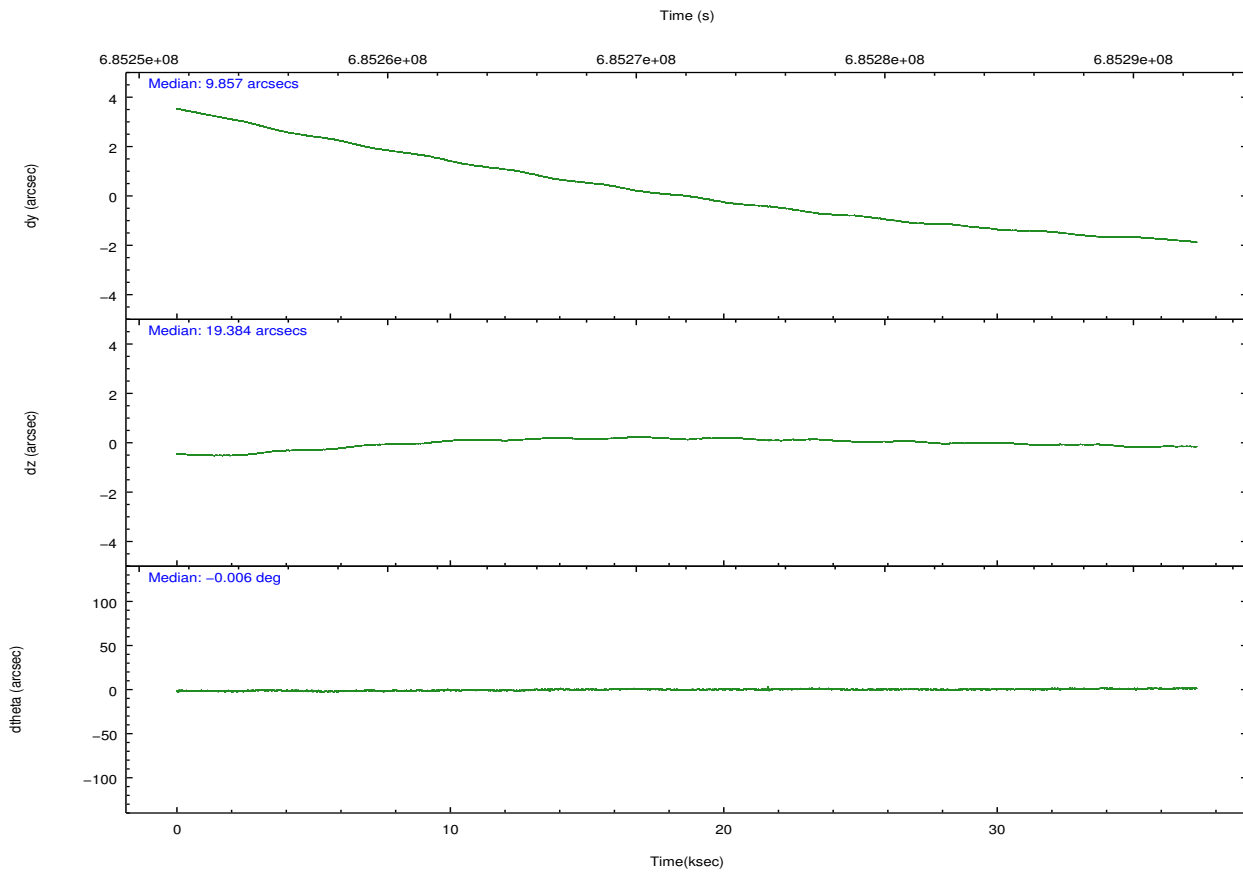
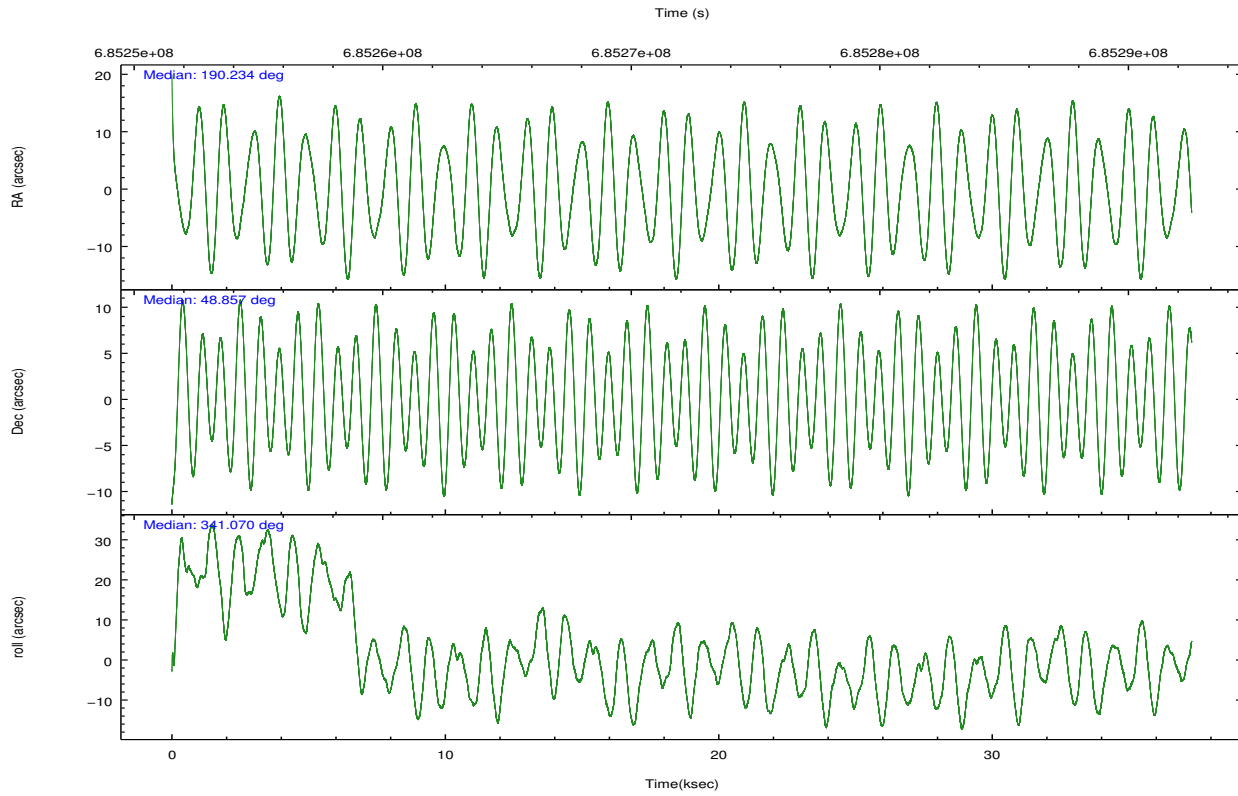
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	10902	12107	10738	13316
	3%	4%	3%	3%
grade 1 events	170	140	157	559
	0%	0%	0%	0%
grade 2 events	7852	6812	7872	34908
	2%	2%	2%	9%
grade 3 events	3122	3143	3113	12605
	1%	1%	1%	3%
grade 4 events	3101	3214	3122	12234
	1%	1%	1%	3%
grade 5 events	11701	13522	13502	36319
	4%	4%	4%	9%
grade 6 events	6246	6457	7911	87538
	2%	2%	2%	23%
grade 7 events	241170	228657	246881	171709
	84%	83%	84%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	190.193017	190.2338516799517	CCD I2 on	O2	Y
[deg] Pointing Dec	48.851020	48.85665166013523	CCD I3 on	Y	Y
[deg] Pointing Roll	340.950370	341.0762483962637	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O1	N
[s] Observation start time (MET)	685253465.184000	685252071.48938	CCD S5 on	N	N
Observation start date	2019-09-19T04:09:56	2019-09-19T03:47:51	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	685290665.184000	685291725.66677	On-chip summing requested	N	N
Observation end date	2019-09-19T14:29:56	2019-09-19T14:48:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





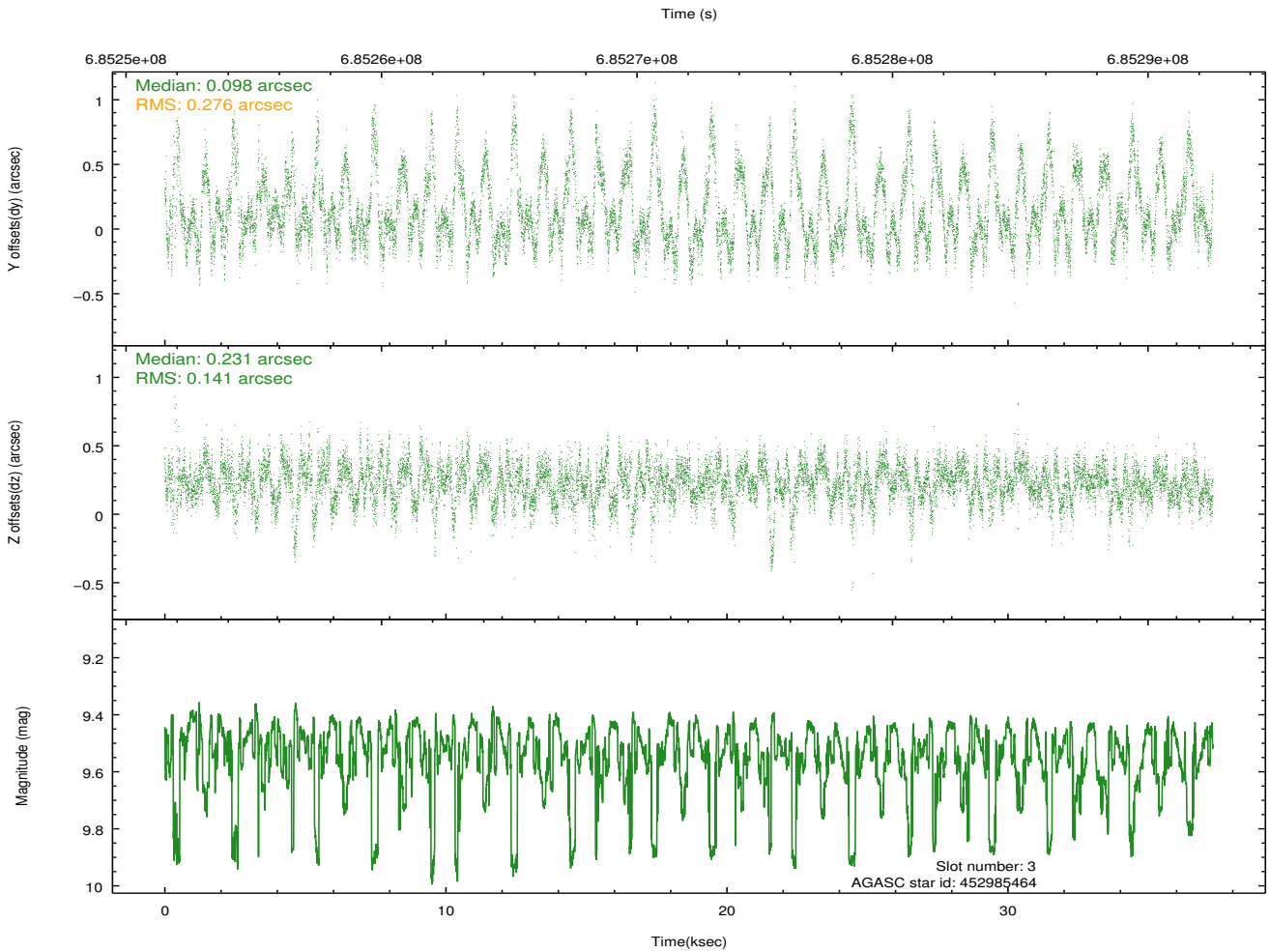
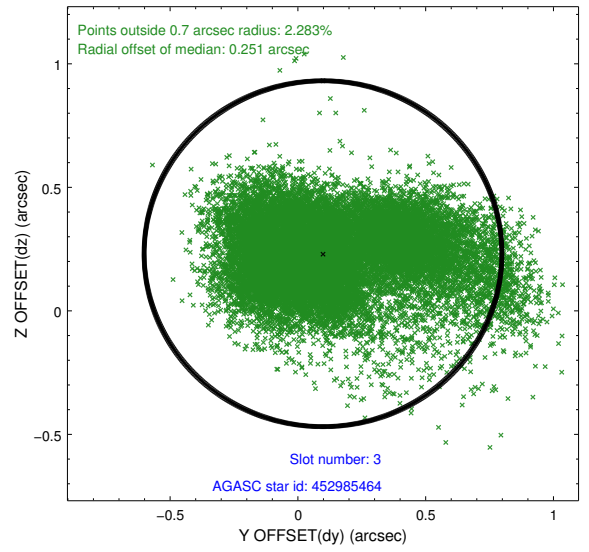
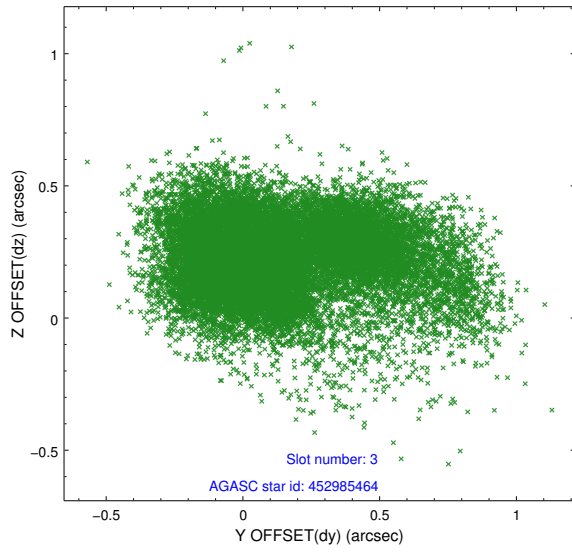
Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.97	9097	1.000	-0.259	-0.116	0.032	0.076	0.000000	0.000000	-763.17	-1741
1	FID		ACIS-S-4	7.10	9097	1.000	0.649	0.165	0.077	0.120	0.000000	0.000000	2150.94	167
2	FID		ACIS-S-5	7.08	9096	1.000	-0.393	-0.030	0.058	0.156	0.000000	0.000000	-1816.18	161
3	GUIDE	used	452985464	9.54	17912	1.000	0.098	0.231	0.311	0.597	190.794943	48.418807	1865.00	-995
4	GUIDE	used	453250256	9.37	18171	1.000	-0.169	-0.241	0.231	0.355	191.209349	48.957706	2140.42	1162
5	GUIDE	used	453253936	6.57	18192	1.000	-0.052	-0.088	0.132	0.200	190.369957	49.290547	-124.93	1632
6	GUIDE	used	453253952	9.53	18133	1.000	0.254	0.202	0.190	0.324	189.508892	49.215147	-1951.03	720
7	GUIDE	used	453255432	9.47	18090	1.000	-0.190	-0.091	0.165	0.273	190.755461	49.233484	798.39	1735

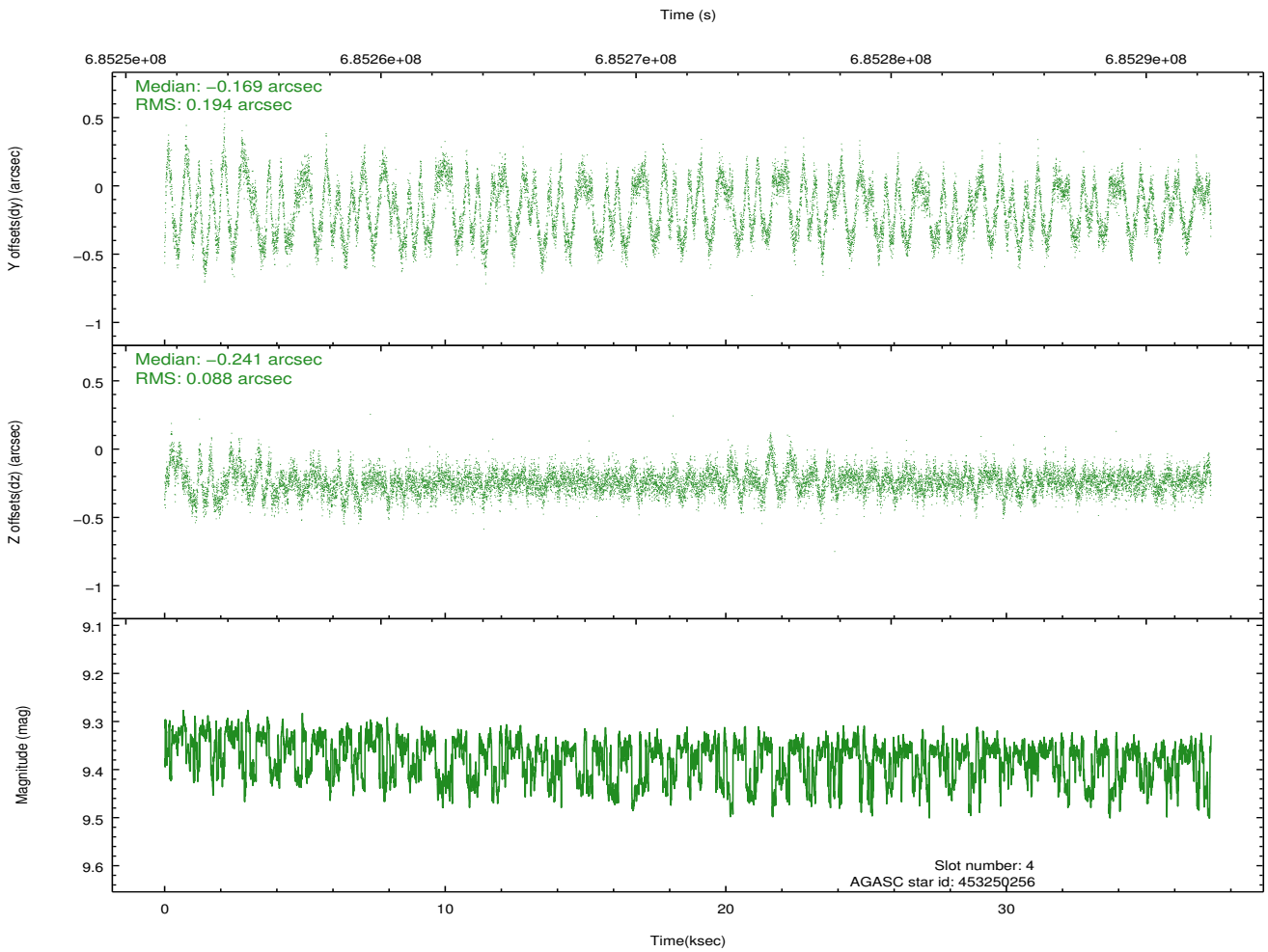
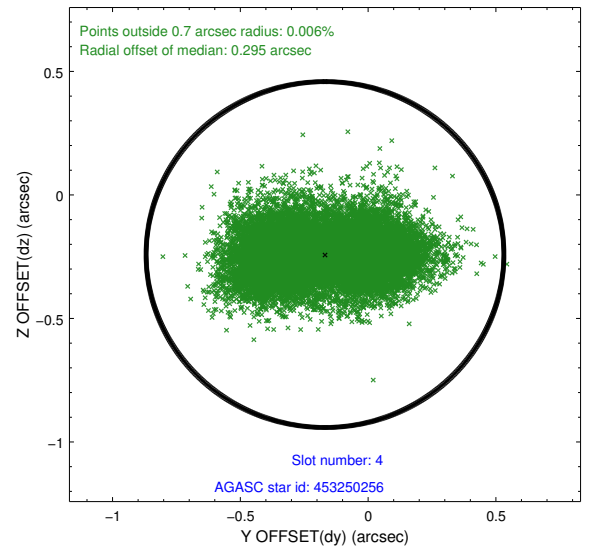
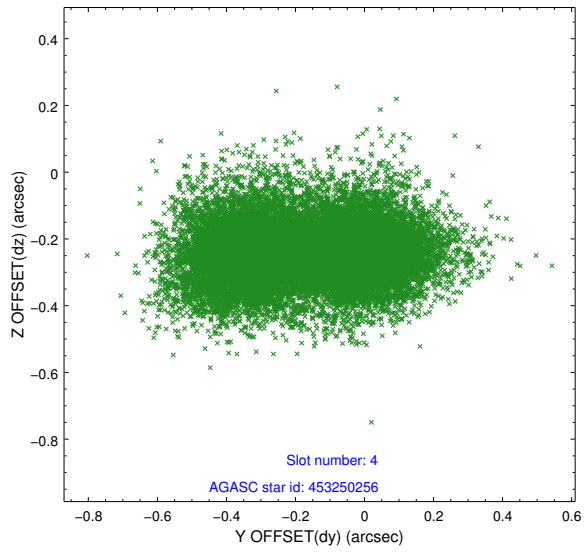
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2.4 Star Slots

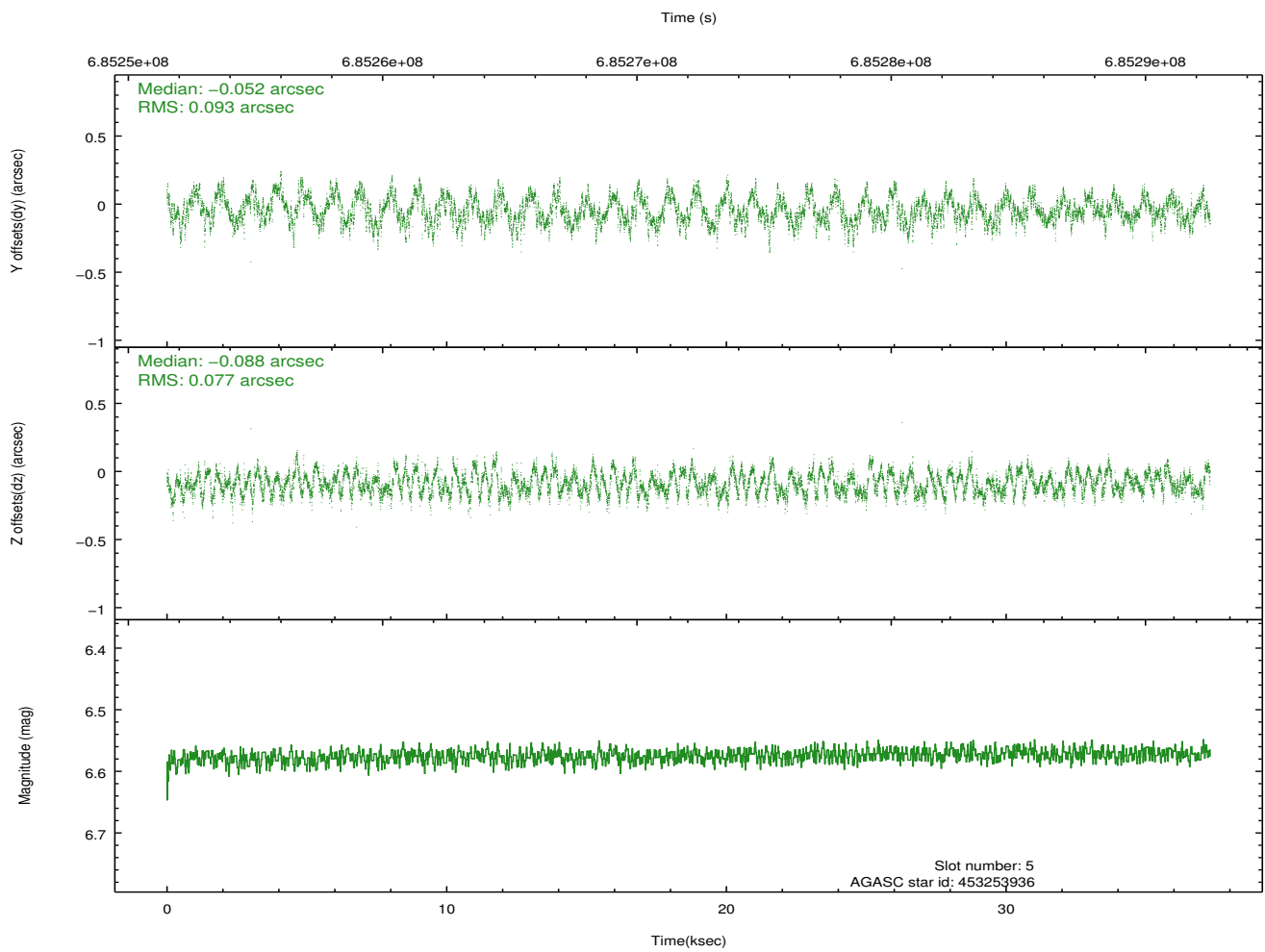
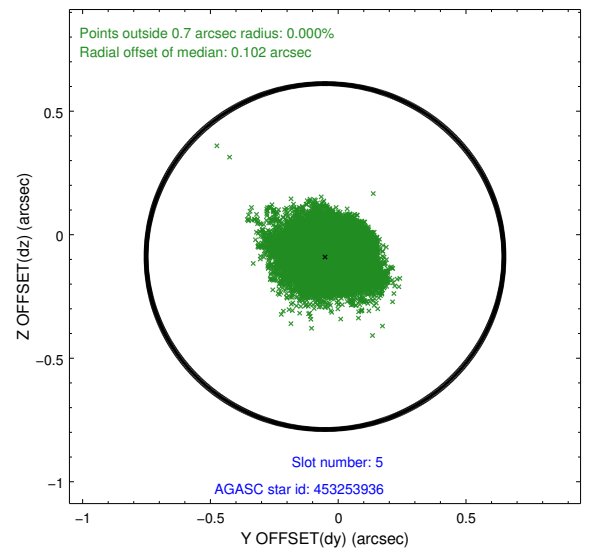
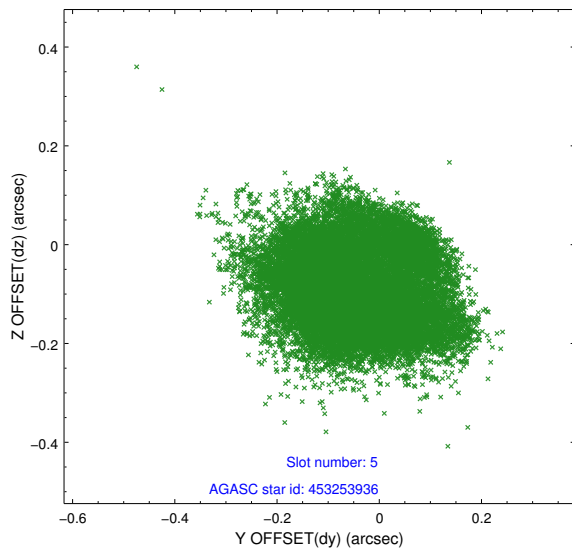
2.4.1 Slot 3



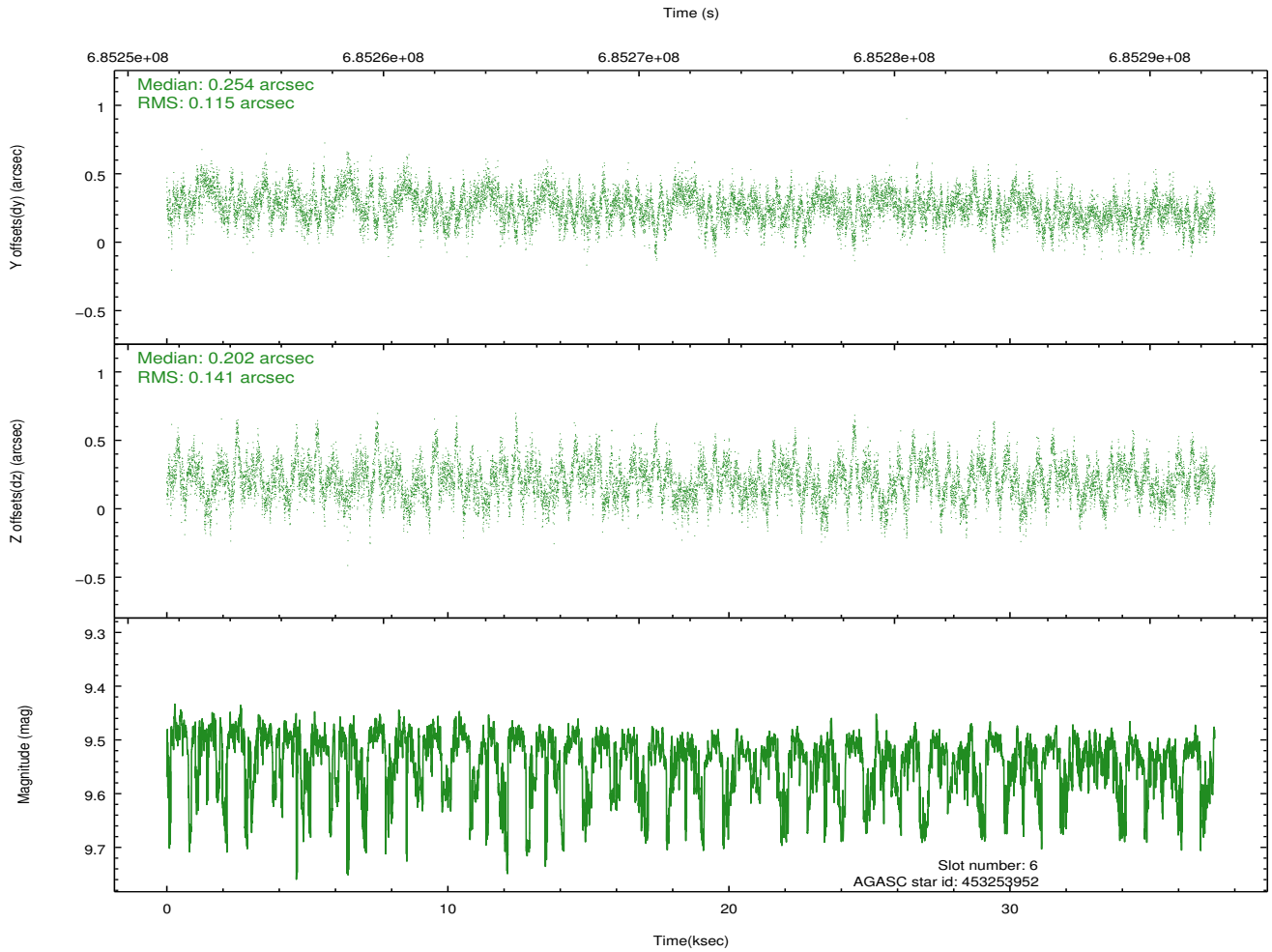
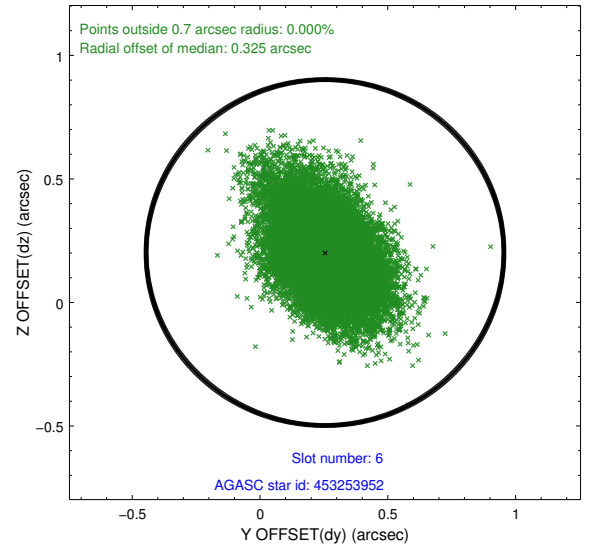
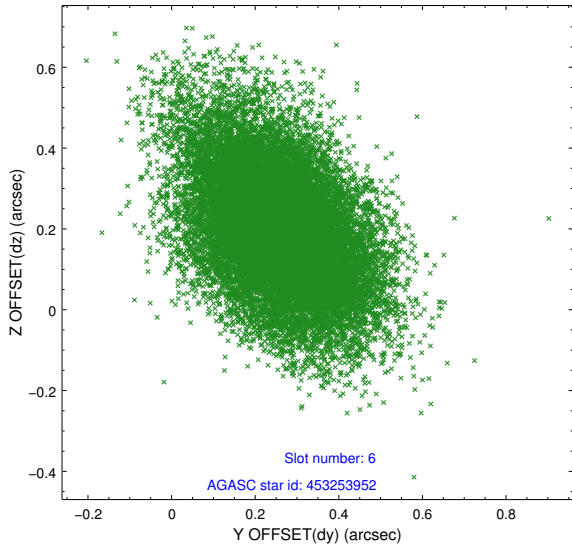
2.4.2 Slot 4



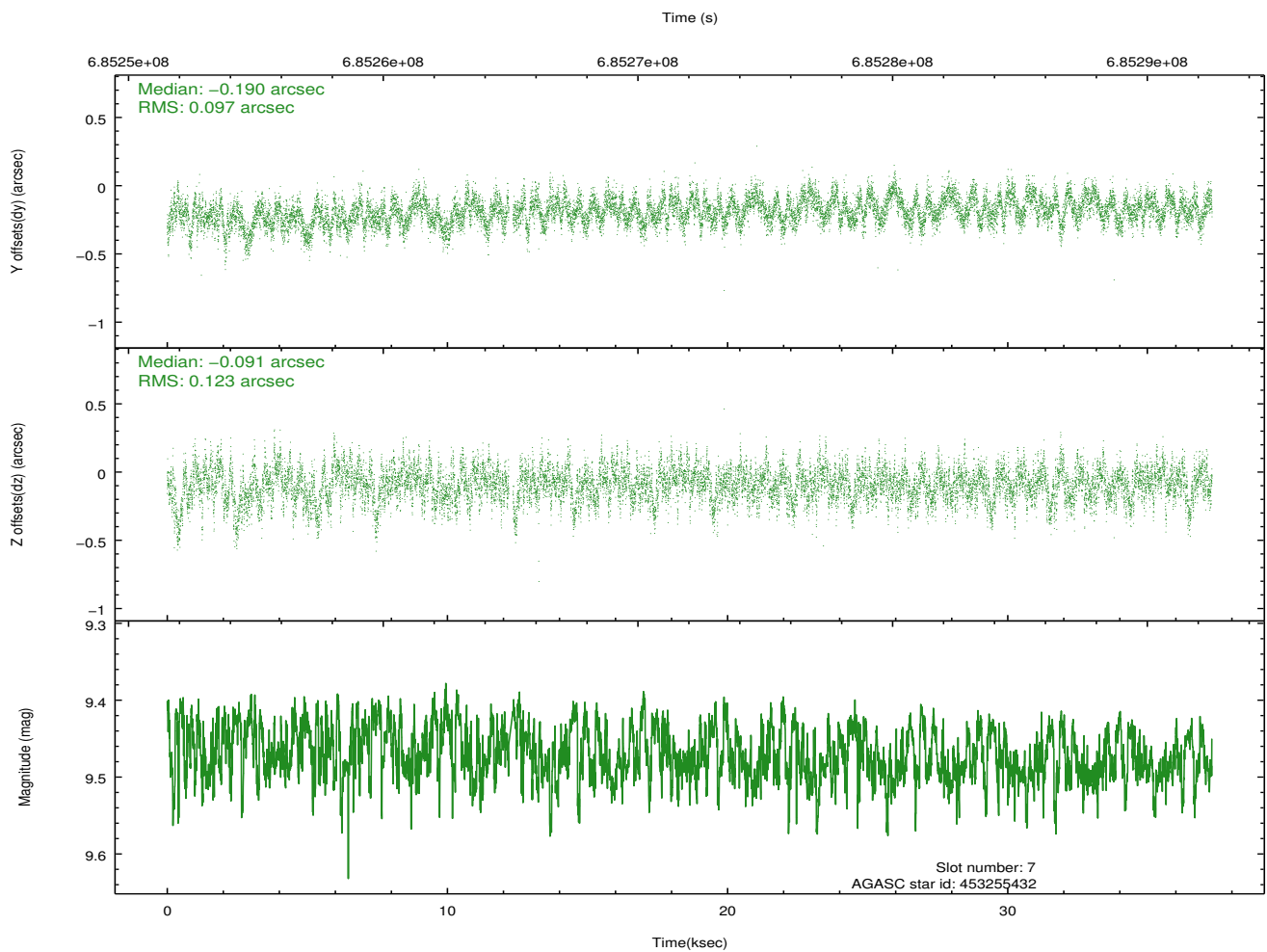
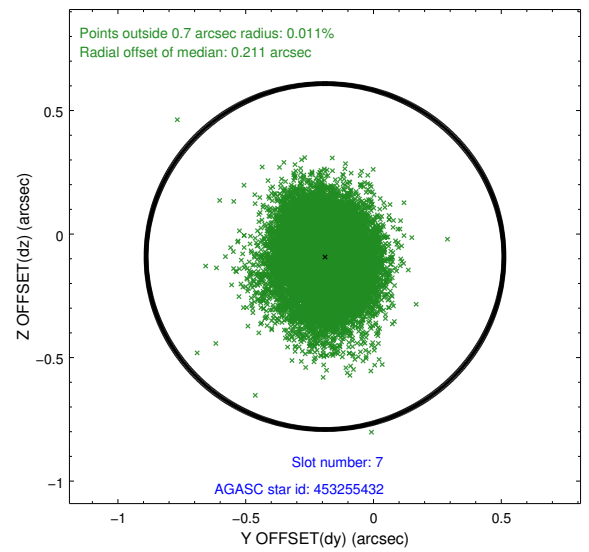
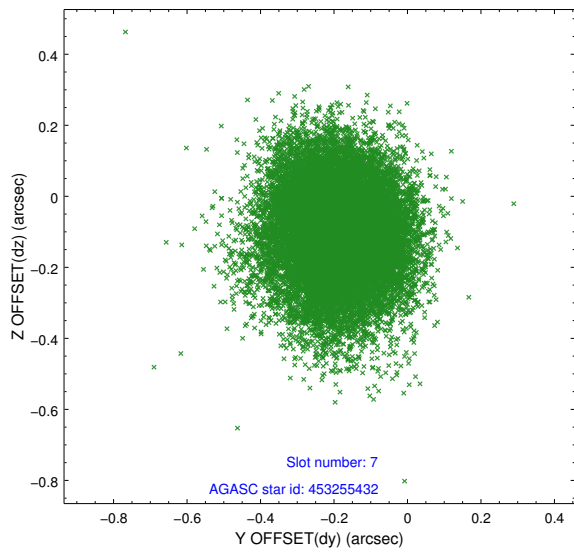
2.4.3 Slot 5



2.4.4 Slot 6

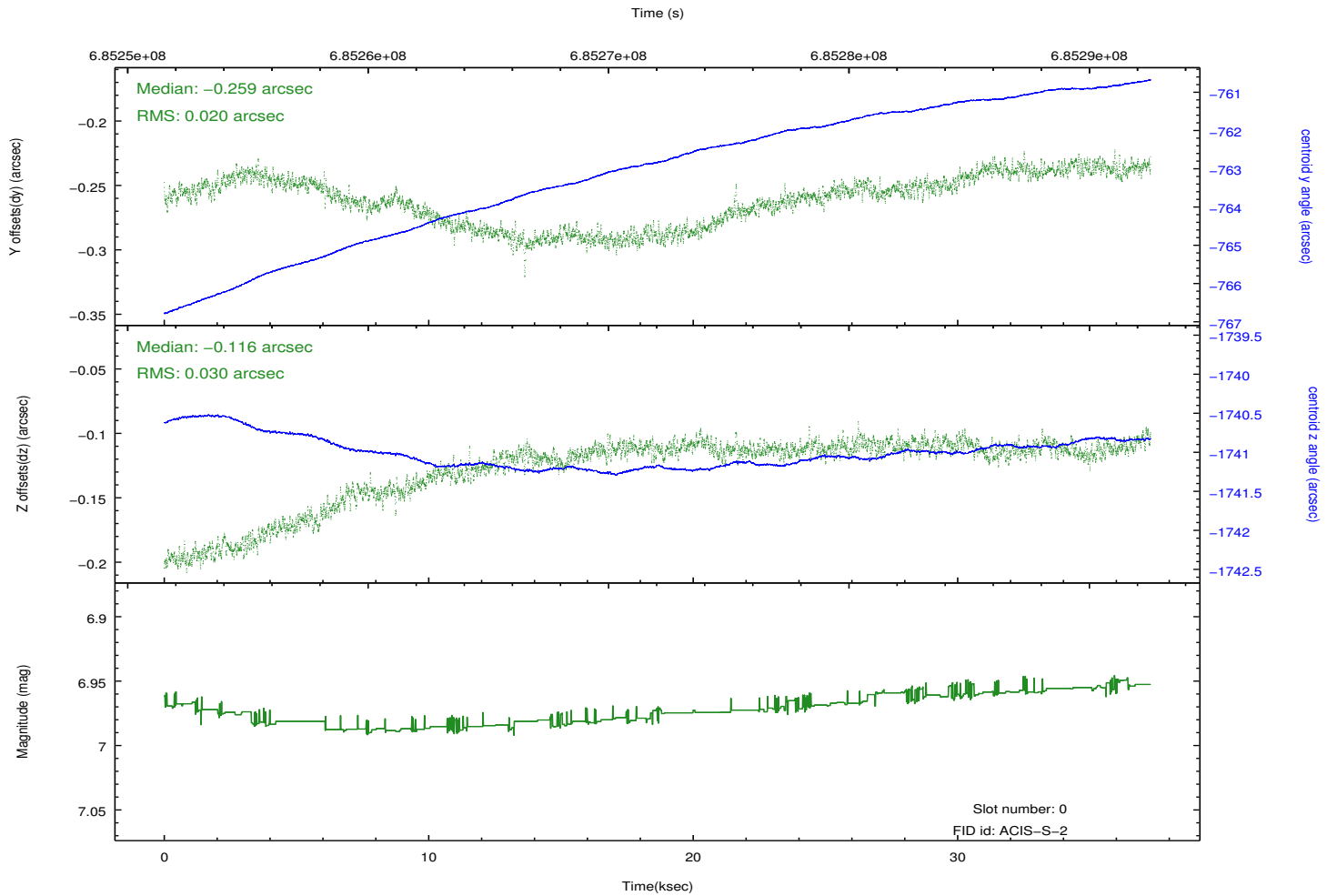
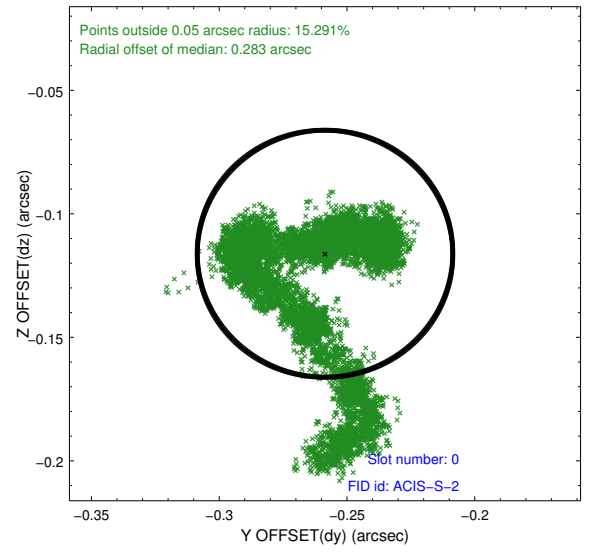
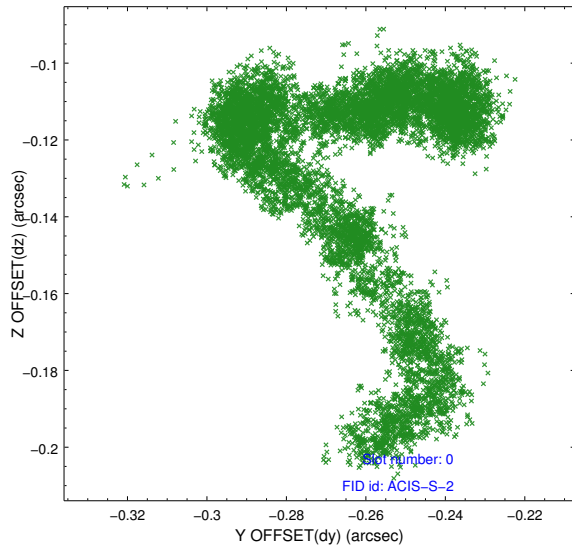


2.4.5 Slot 7

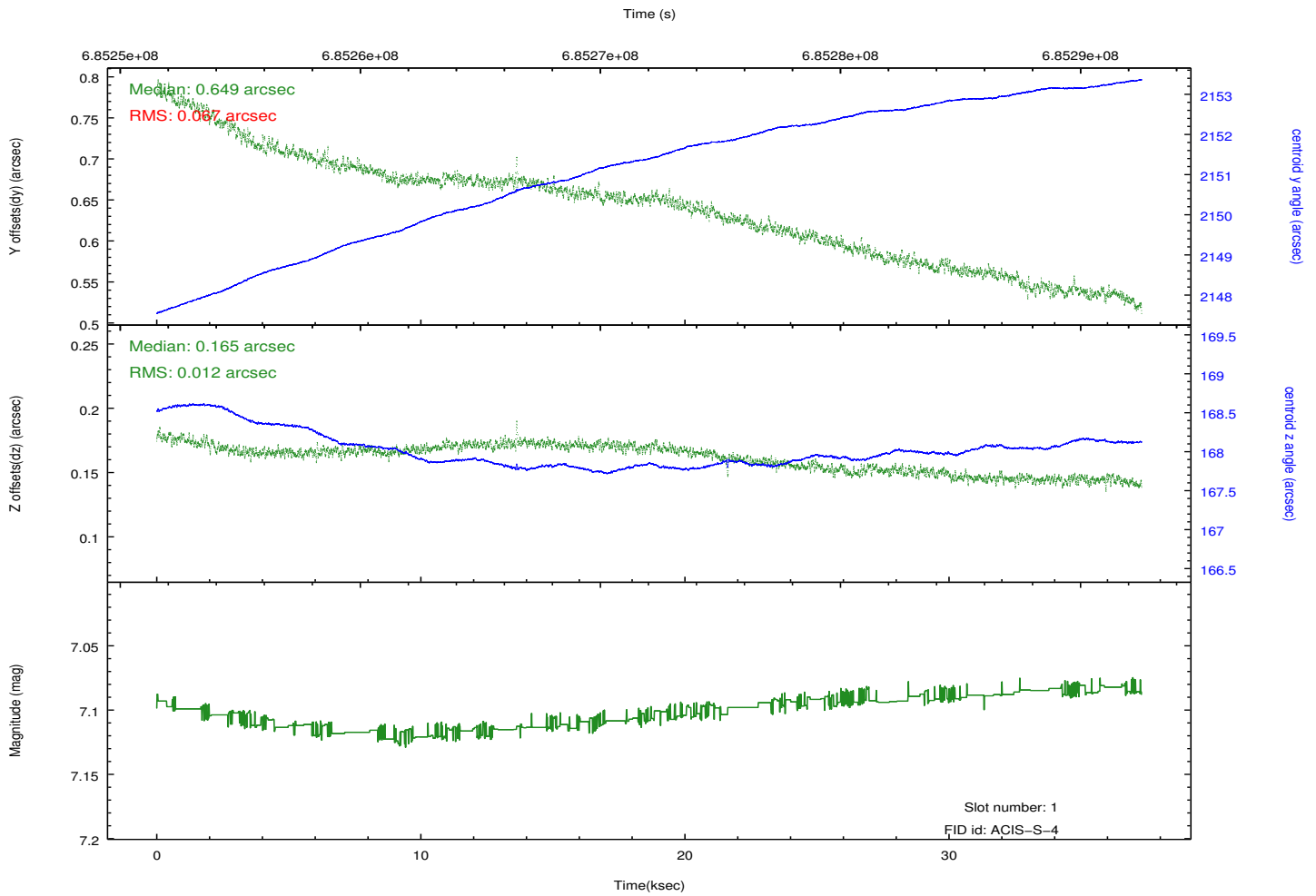
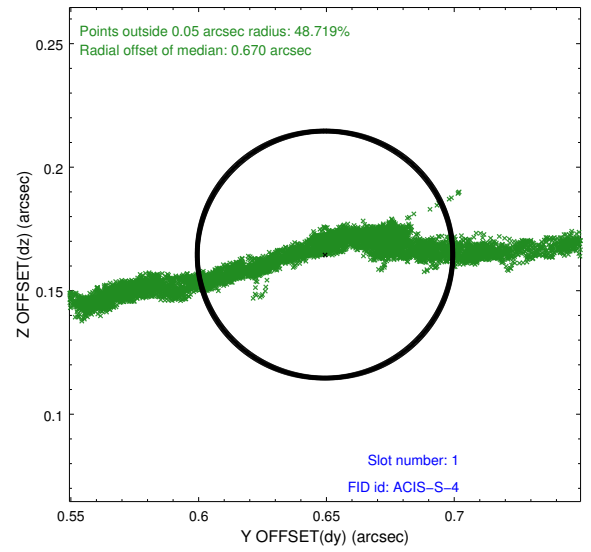
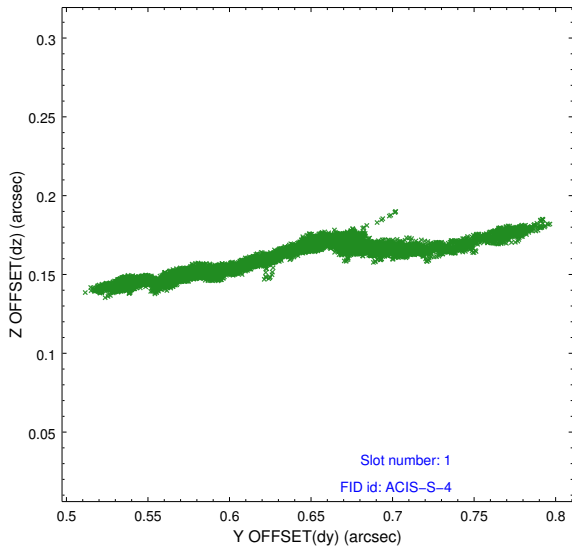


2.5 FID Slots

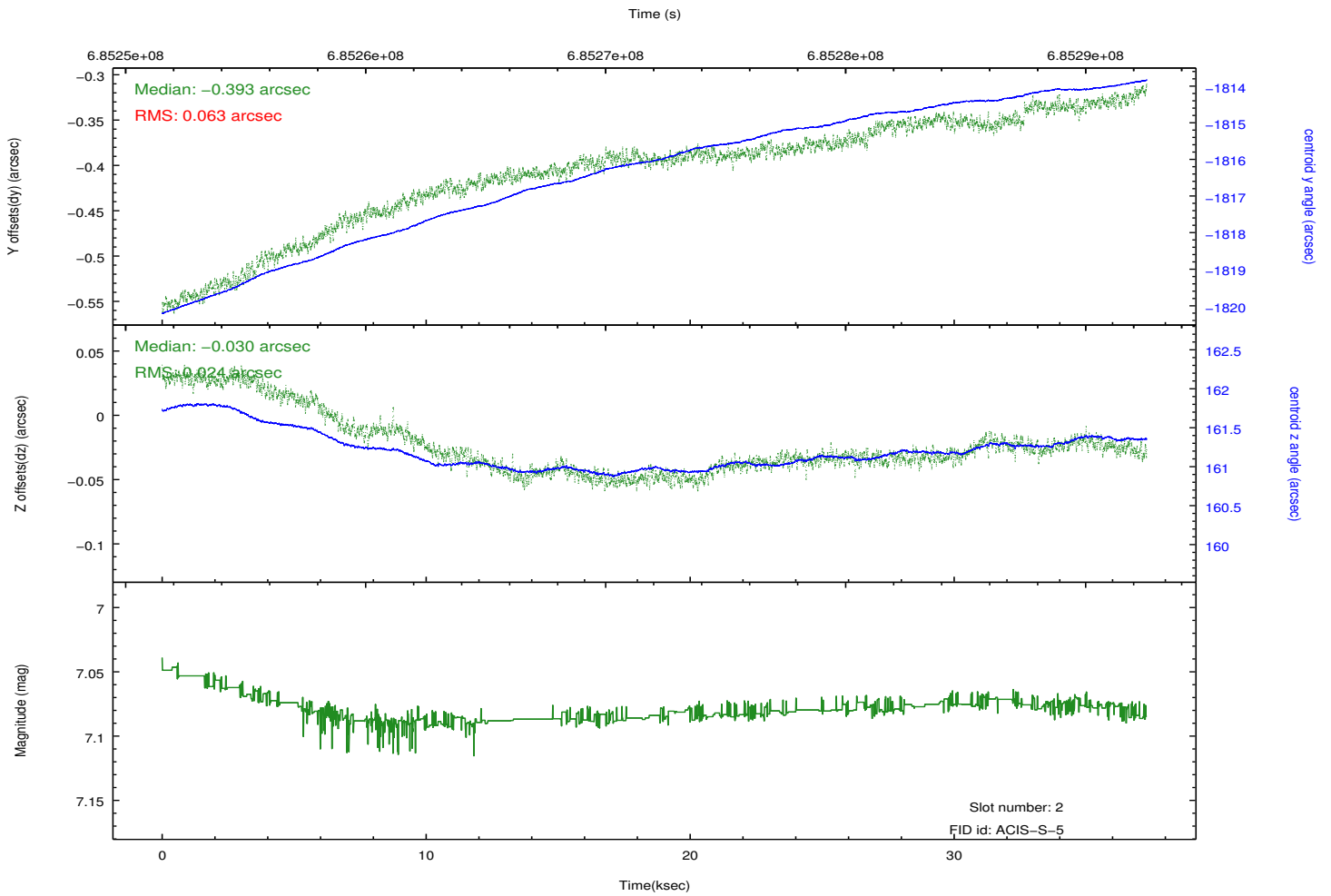
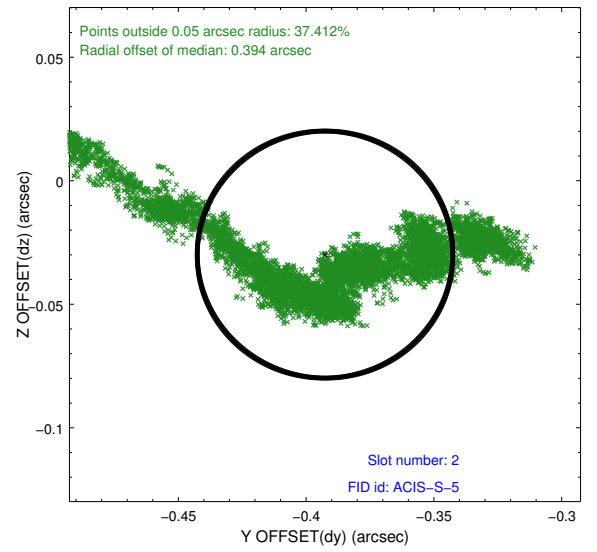
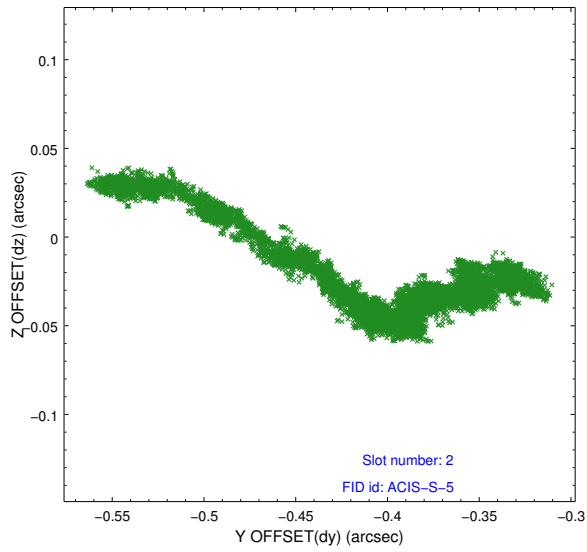
2.5.1 Slot 0



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)	2019.09.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.265100286722

A.2 Comments

One optional chip was dropped.