

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20392 - L2 Version 2
Chandra X-Ray Center

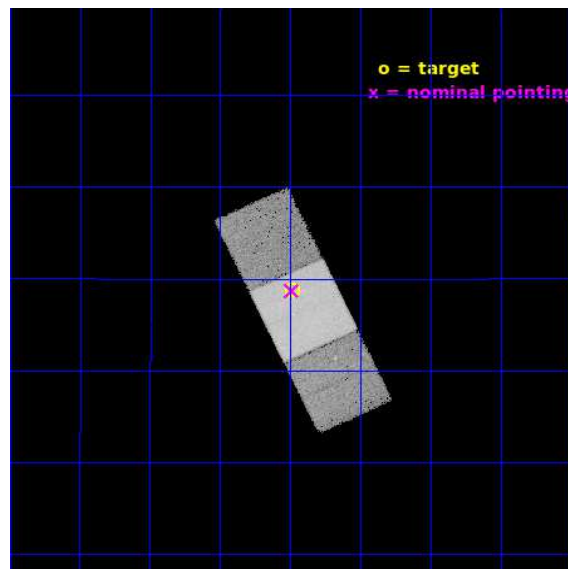
L2 Processing Date : Oct 24 2020

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1 Front

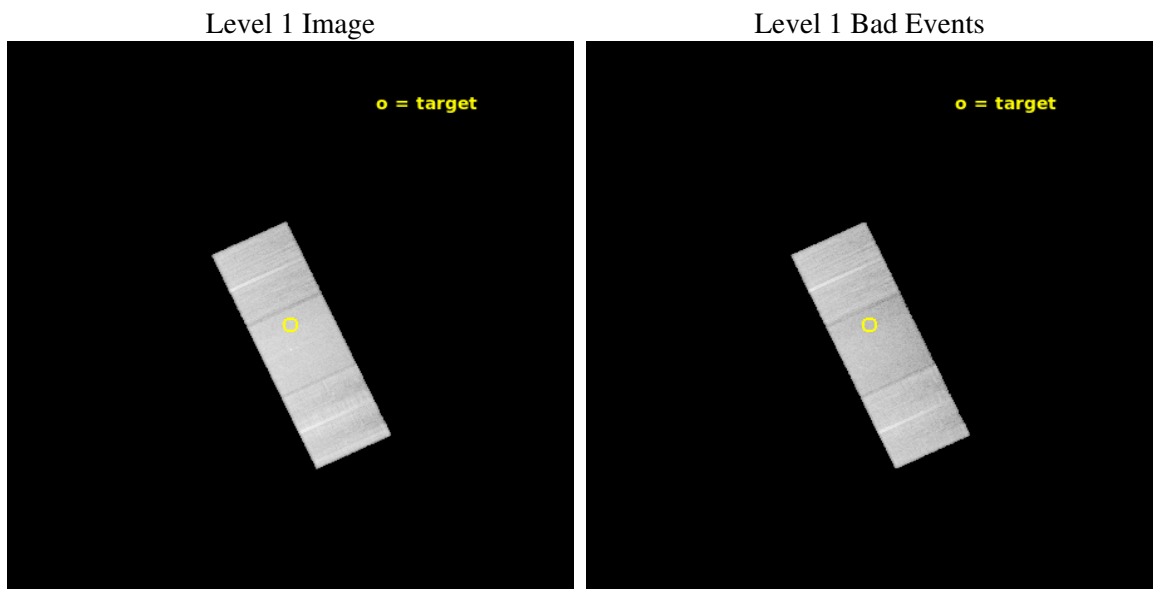
seq_num	703497	Sequence number
obs_id	20392	Observation id
title	A Reliable X-ray View of the First Quasars	Proposal title
observer	William Brandt	Principal investigator
object	SDSS J0842+1218	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	130.621667	Observer's specified target RA [deg]
dec_targ	12.313389	Observer's specified target Dec [deg]
ra_nom	130.62218914674	Nominal RA [deg]
dec_nom	12.311680366756	Nominal Dec [deg]
roll_nom	64.766514253213	Nominal Roll [deg]
revision	2	Processing version of data
ontime	29112.100224018	Sum of GTIs [s]
livetime	28731.729202575	Livetime [s]
ontime6	29112.100224018	Sum of GTIs [s]
ontime7	29112.100224018	Sum of GTIs [s]
ontime8	29108.95908308	Sum of GTIs [s]
l2events	155513	Number of level 2 events



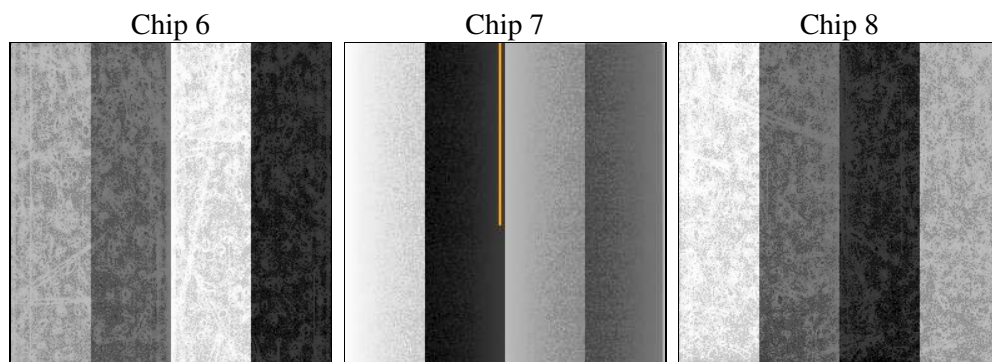
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	29112.100224018	Sum of GTIs [s]
caldsver	4.9.3	 	ontime6	29112.100224018	Sum of GTIs [s]
date	2020-10-24T04:57:20	Date and time of file creation	ontime7	29112.100224018	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	29108.95908308	Sum of GTIs [s]
			l1events	749725	Number of level 1 events

2.1.4 Events

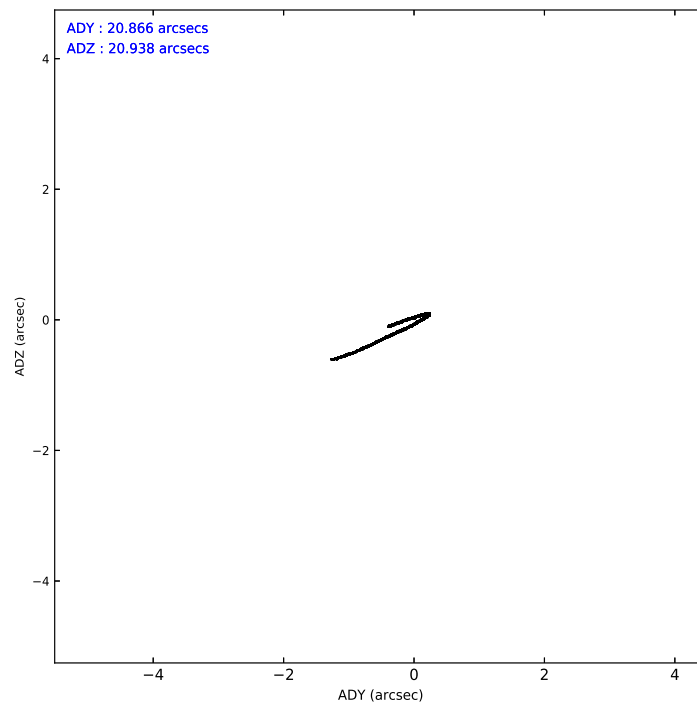
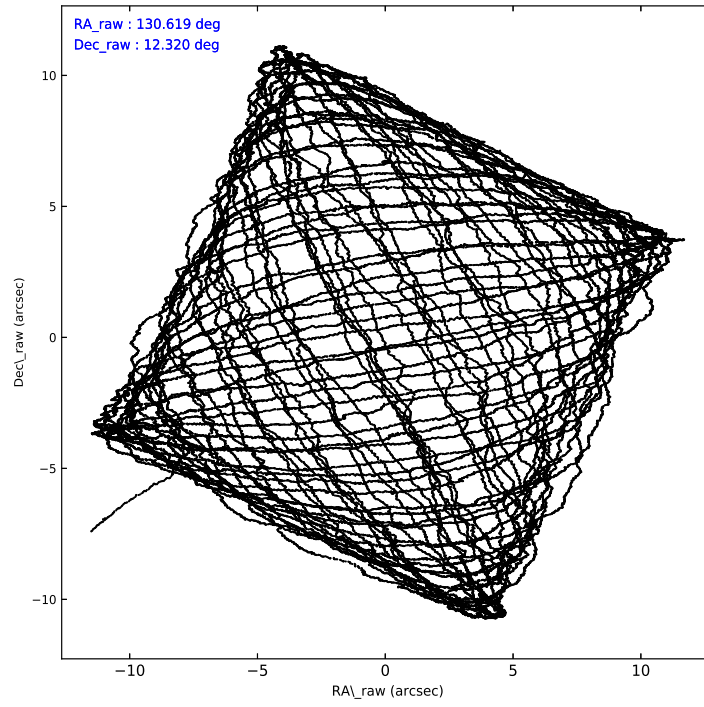
	ccd 6	ccd 7	ccd 8
level 1 events	211016	265929	272780
rejected events	187992	150112	201420
rejected %	89%	56%	73%

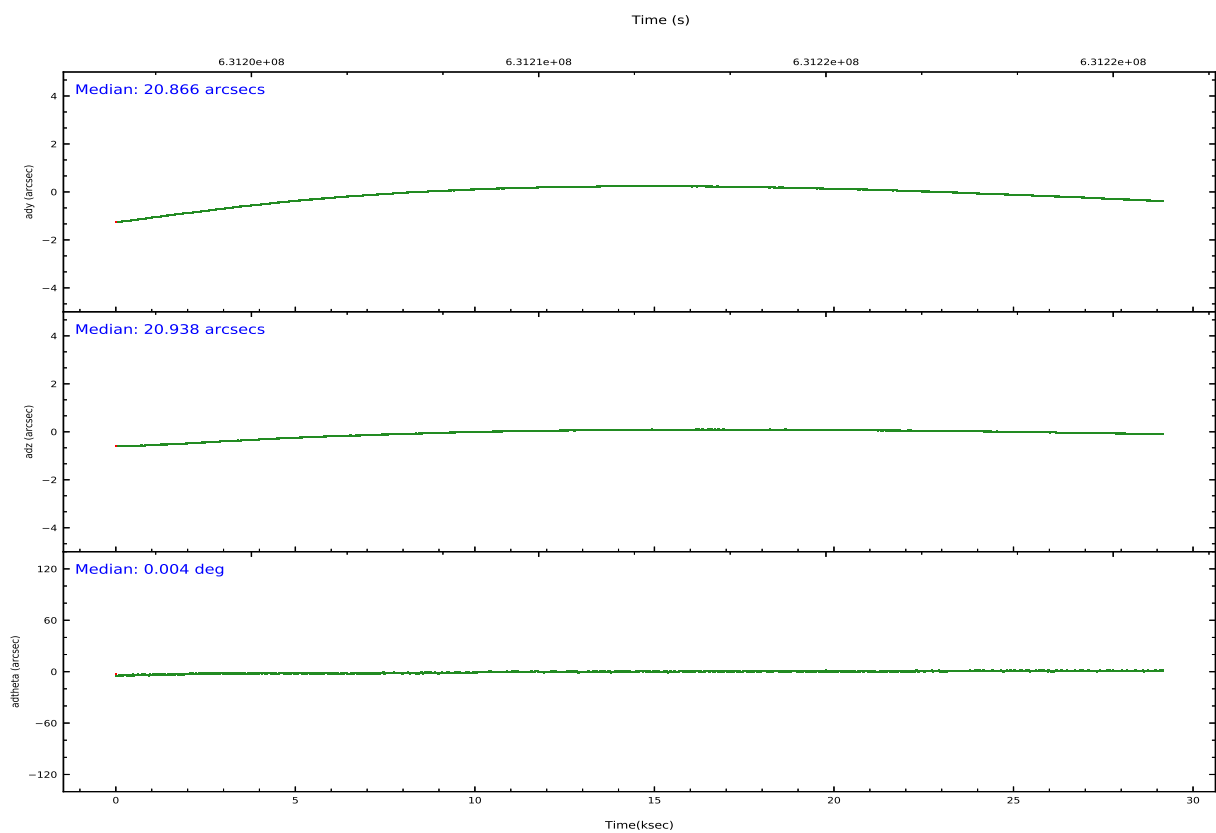
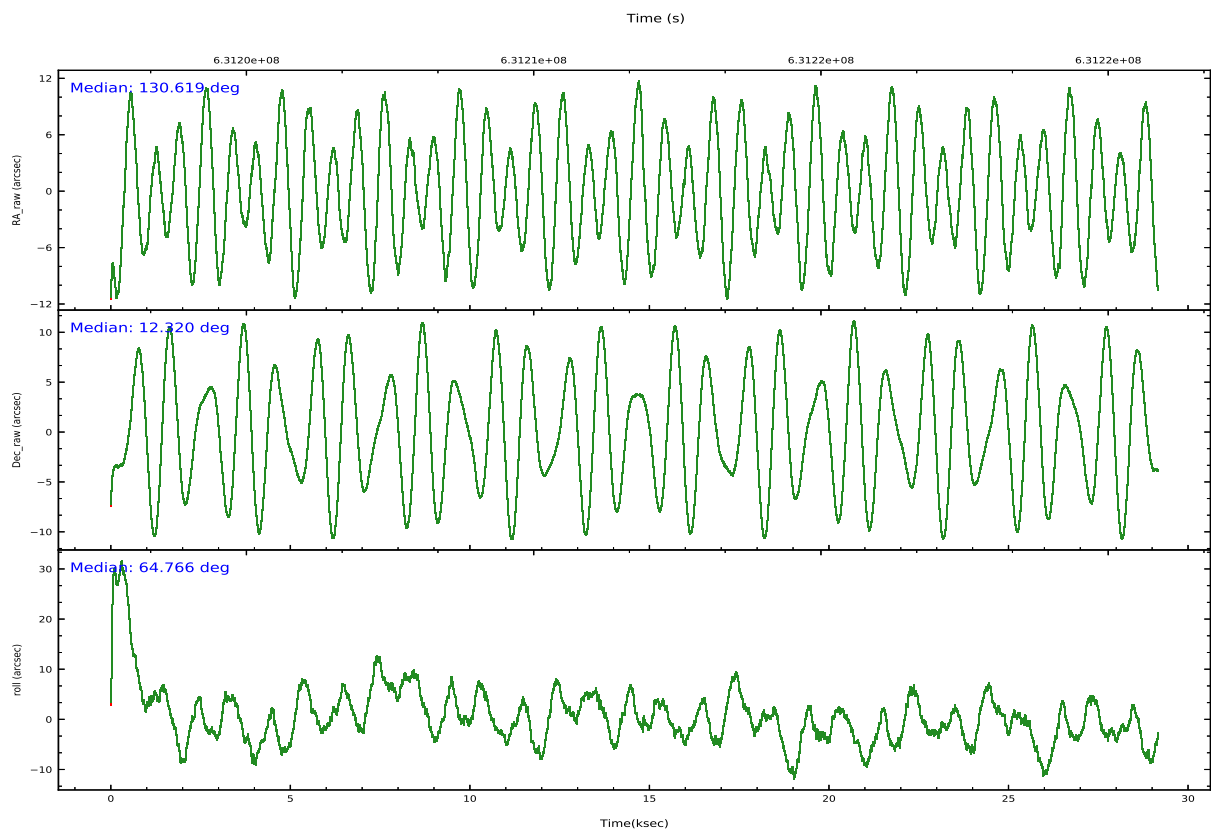
	ccd 6	ccd 7	ccd 8
grade 0 events	7355	9790	20192
	3%	3%	7%
grade 1 events	83	344	202
	0%	0%	0%
grade 2 events	5517	24444	16997
	2%	9%	6%
grade 3 events	2199	9399	7656
	1%	3%	2%
grade 4 events	2209	9004	7199
	1%	3%	2%
grade 5 events	9640	26346	14767
	4%	9%	5%
grade 6 events	5753	63195	19319
	2%	23%	7%
grade 7 events	178260	123407	186448
	84%	46%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-678	ACIS-678	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	130.622014	130.62218914674	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.292349	12.311680366756	Alternating exposures requested	N	N
[deg] Pointing Roll	64.620179	64.766514253213	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	631196391.184000	631195472.1296			
Observation start date	2018-01-01T12:18:42	2018-01-01T12:04:32			
[s] Observation end time (MET)	631225391.184000	631226100.6689			
Observation end date	2018-01-01T20:22:02	2018-01-01T20:35:00			
Read mode	TIMED	TIMED			

2.3 Aspect



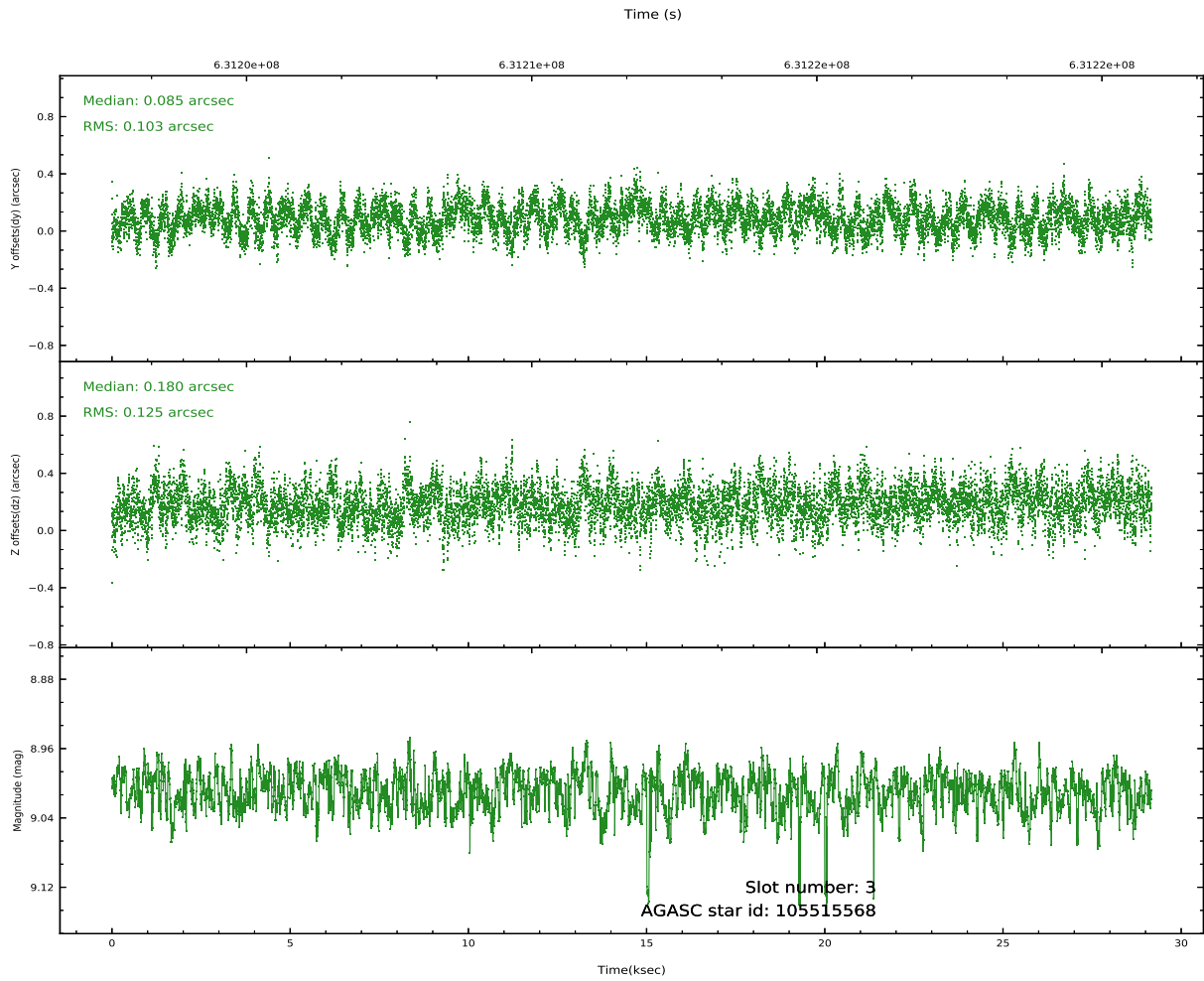
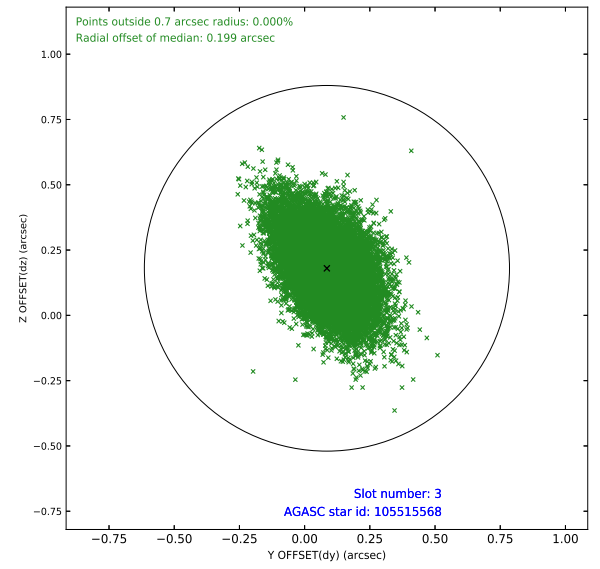
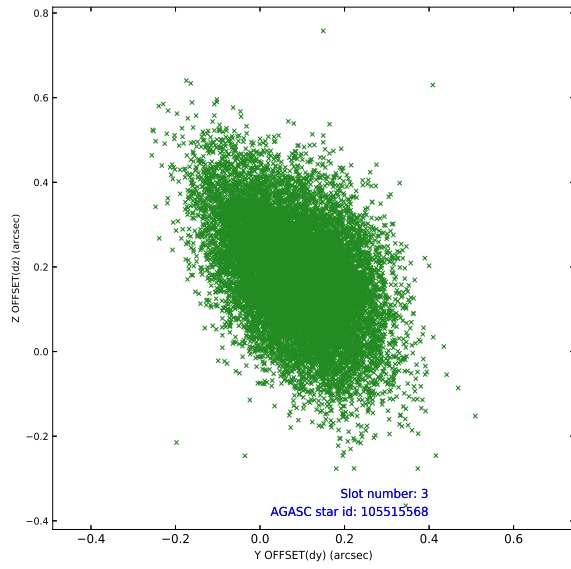


Slot Statistics

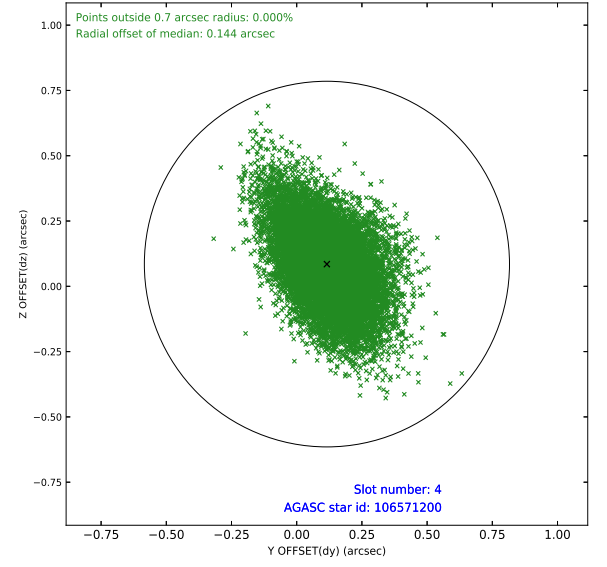
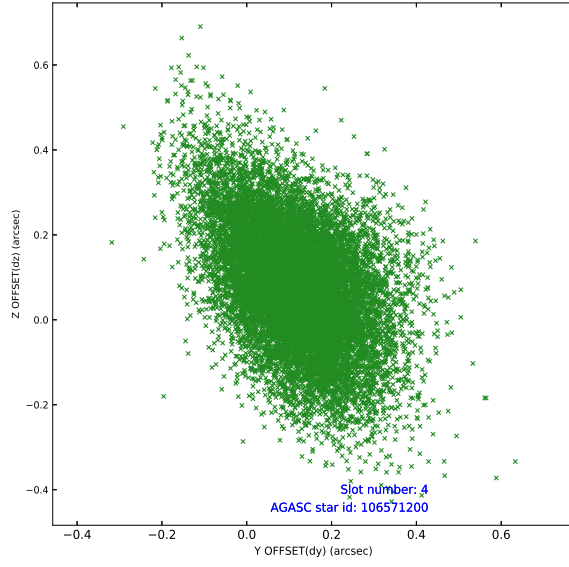
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.08	7115	1.000	0.132	-0.093	0.018	0.041	0.000000	0.000000	-773.99	-1742
1	FID		ACIS-S-4	7.20	7115	1.000	0.068	-0.037	0.018	0.061	0.000000	0.000000	2139.46	165
2	FID		ACIS-S-5	7.19	7114	1.000	-0.231	0.143	0.014	0.038	0.000000	0.000000	-1826.83	160
3	GUIDE	used	105515568	9.01	14211	1.000	0.085	0.180	0.168	0.288	129.940690	11.991415	-2005.14	1704
4	GUIDE	used	106571200	9.32	14214	1.000	0.116	0.085	0.181	0.319	131.313089	12.422125	1466.96	-1993
5	GUIDE	used	106962968	8.83	14213	1.000	-0.110	-0.052	0.135	0.234	130.463087	13.055809	2244.65	1682
6	GUIDE	used	106963640	8.55	14221	1.000	-0.021	0.121	0.149	0.244	131.119682	12.735011	2191.13	-894
7	GUIDE	used	105515024	9.33	14205	1.000	-0.068	-0.338	0.187	0.312	130.119863	12.821725	968.02	2410

2.4 Star Slots

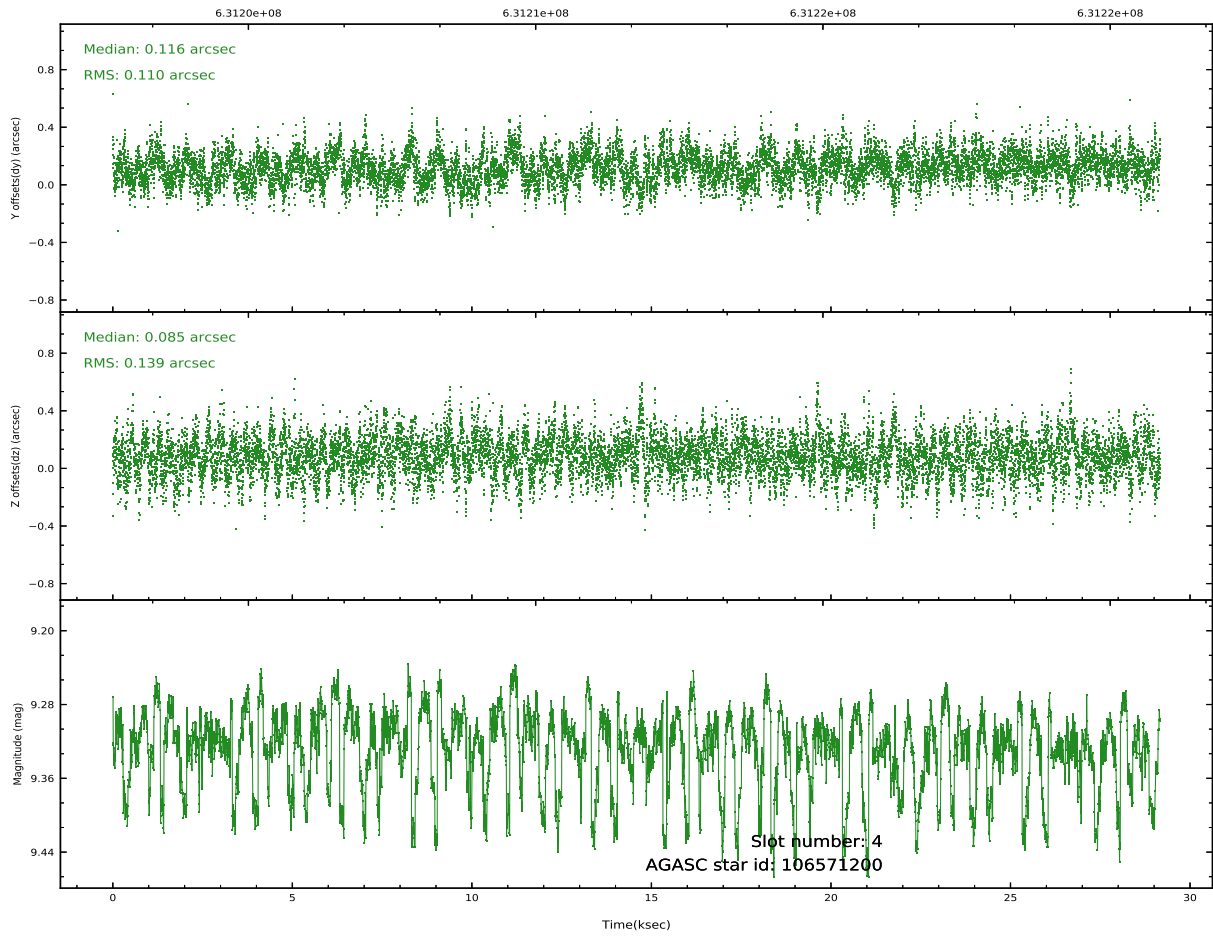
2.4.1 Slot 3



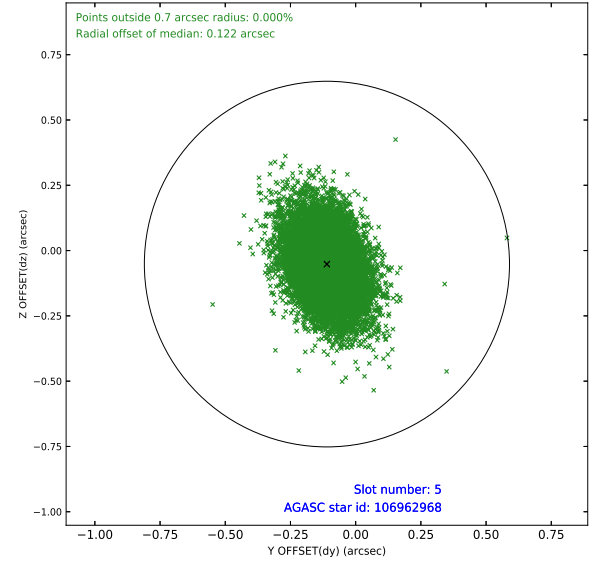
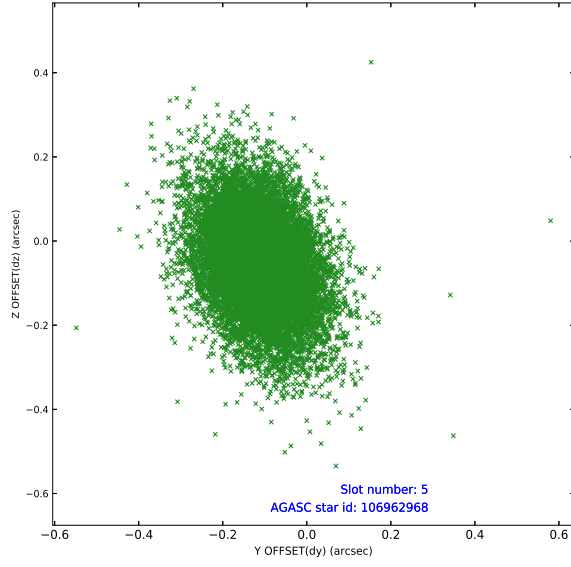
2.4.2 Slot 4



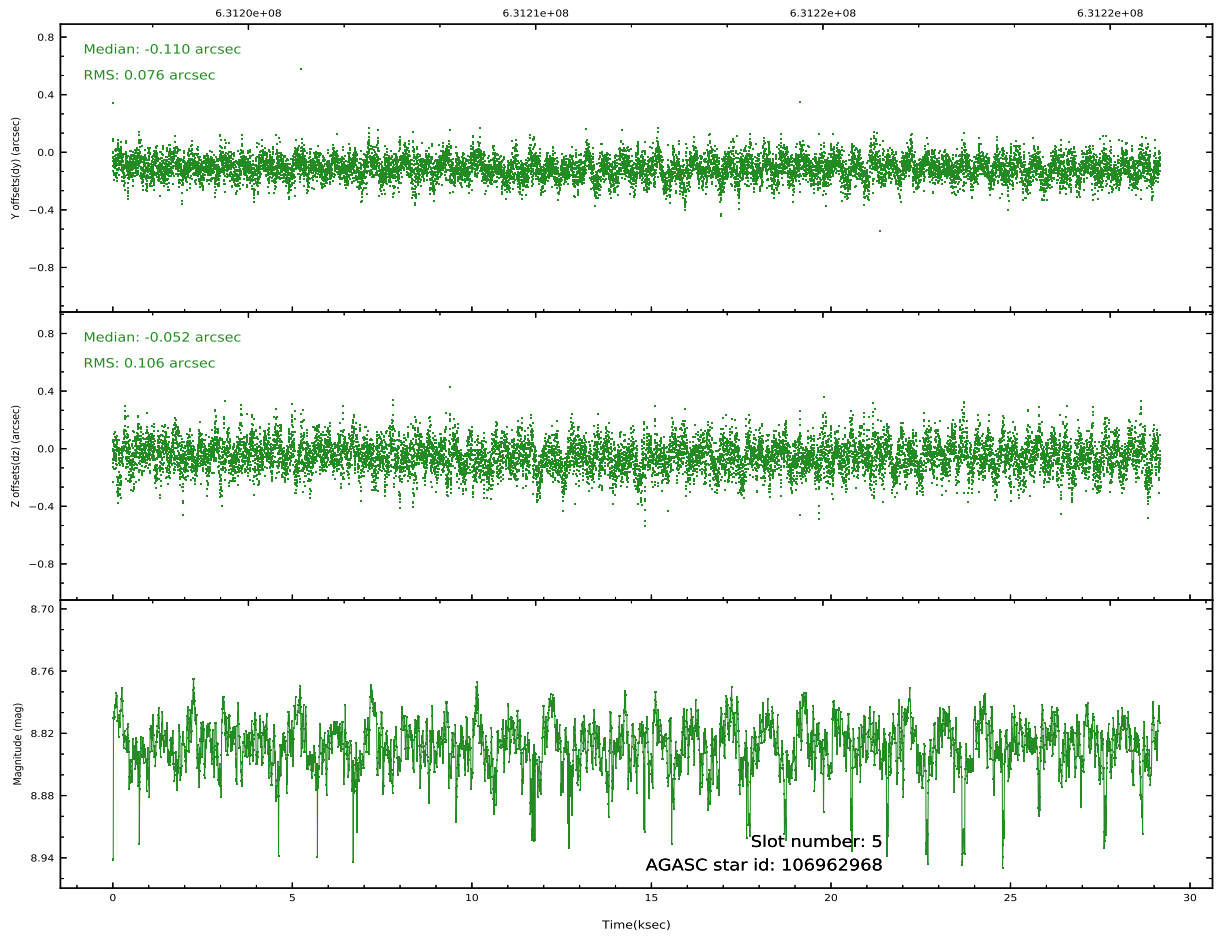
Time (s)



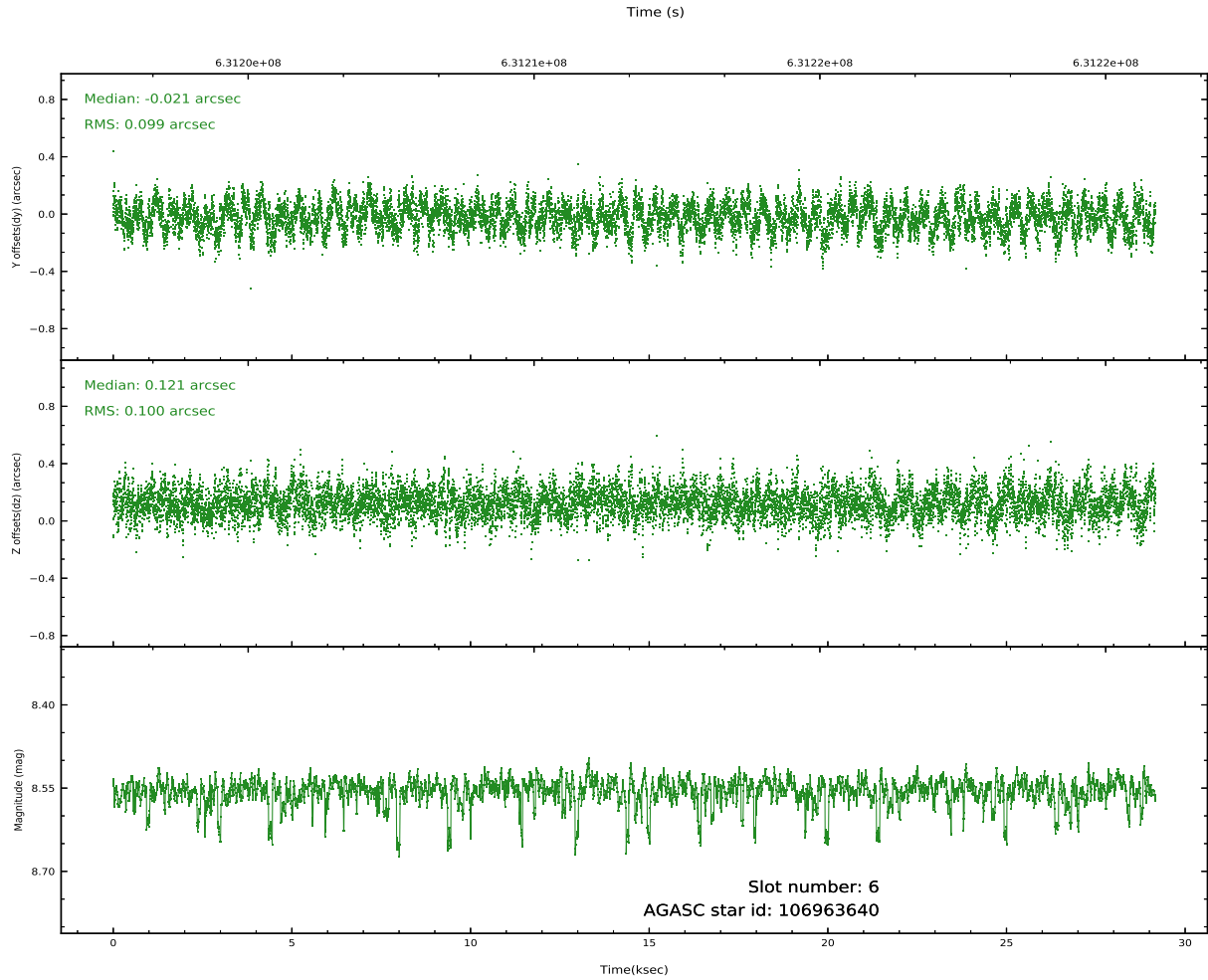
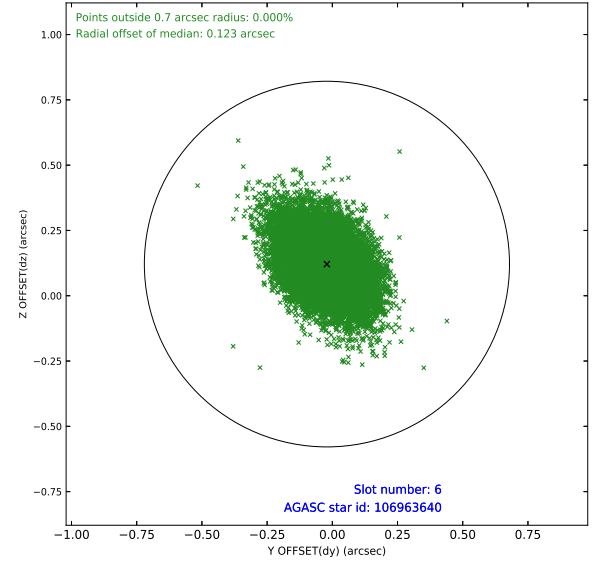
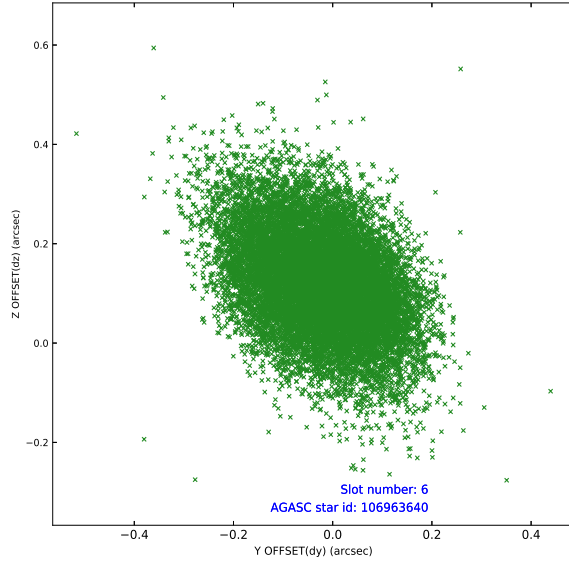
2.4.3 Slot 5



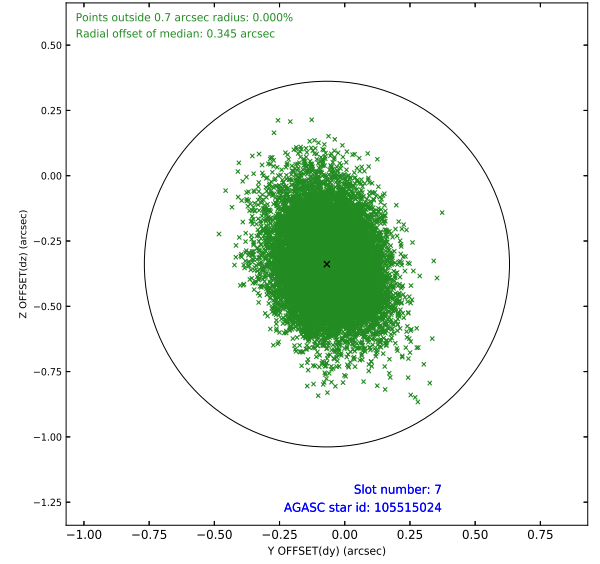
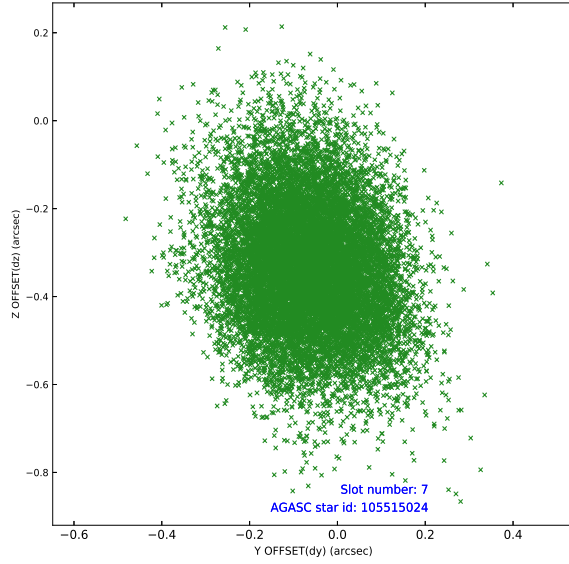
Time (s)



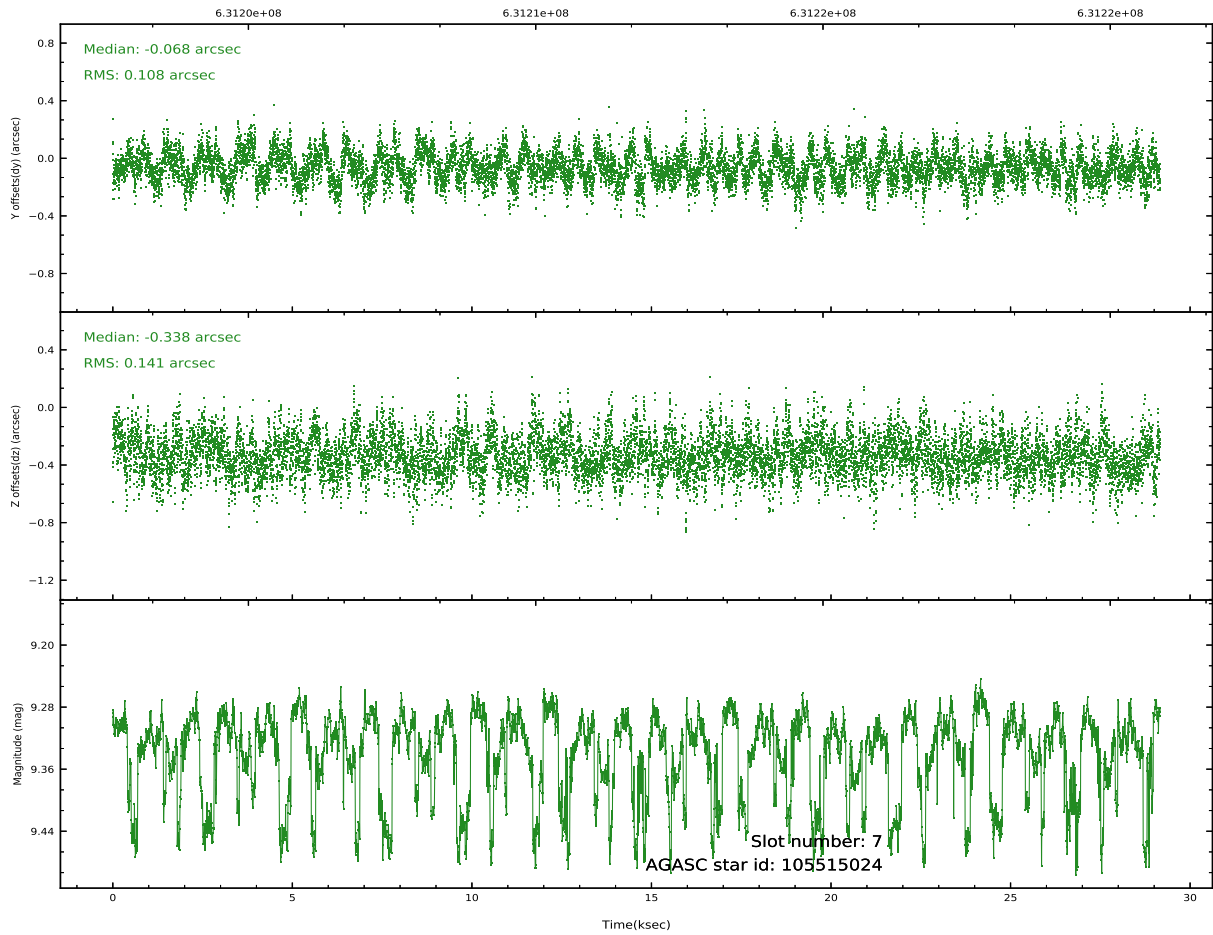
2.4.4 Slot 6



2.4.5 Slot 7

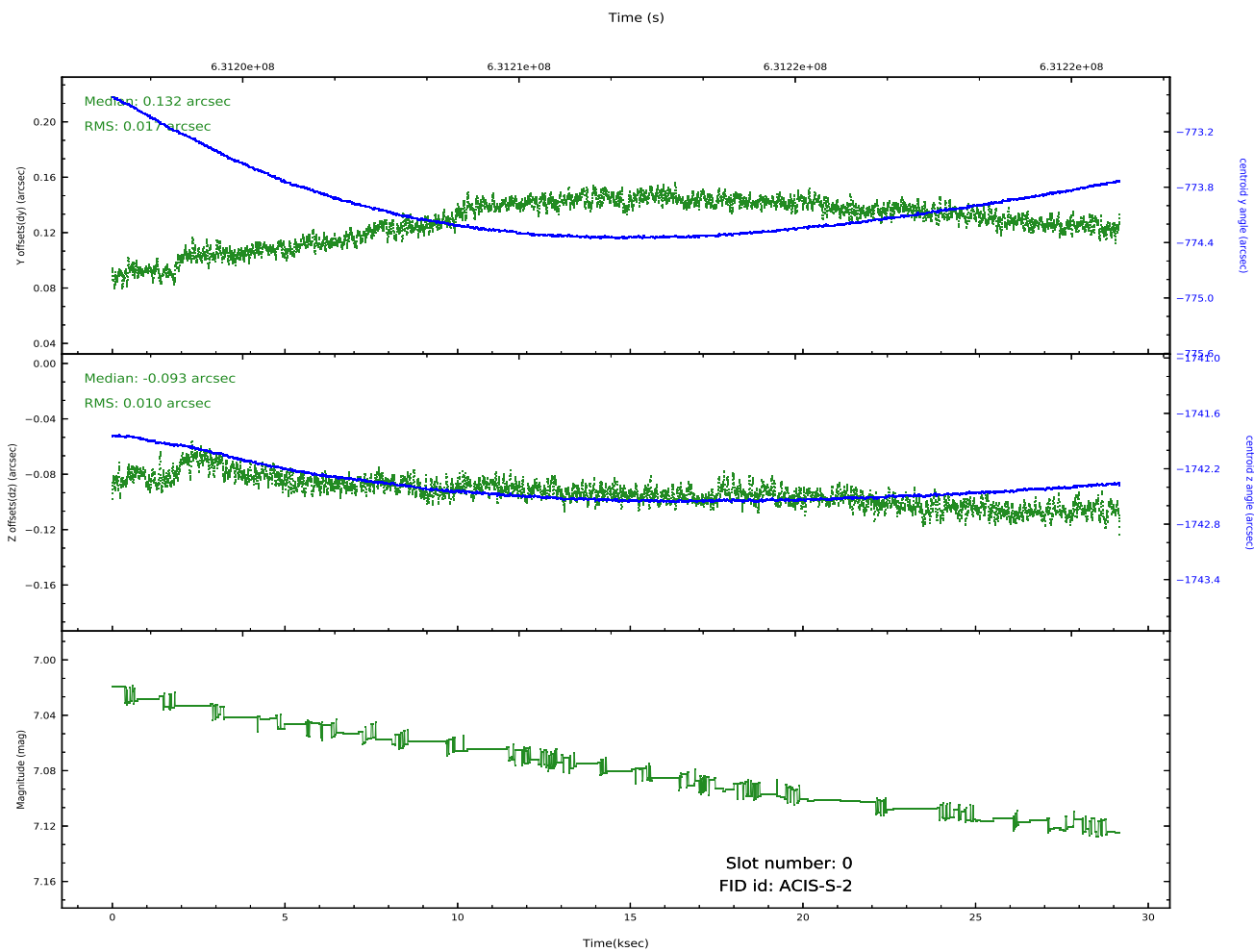
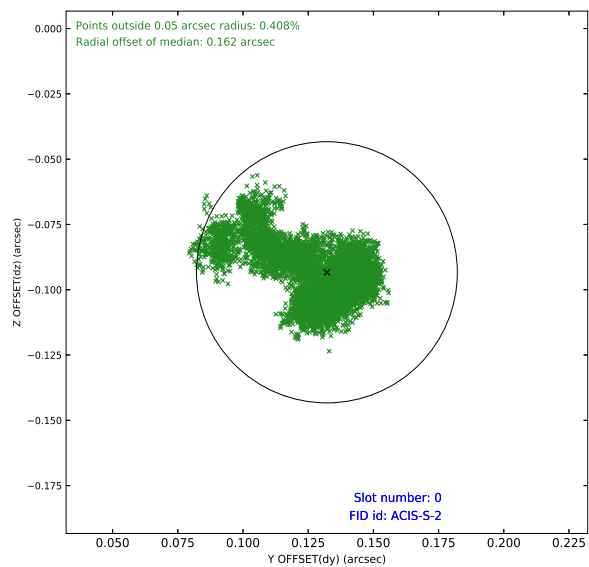
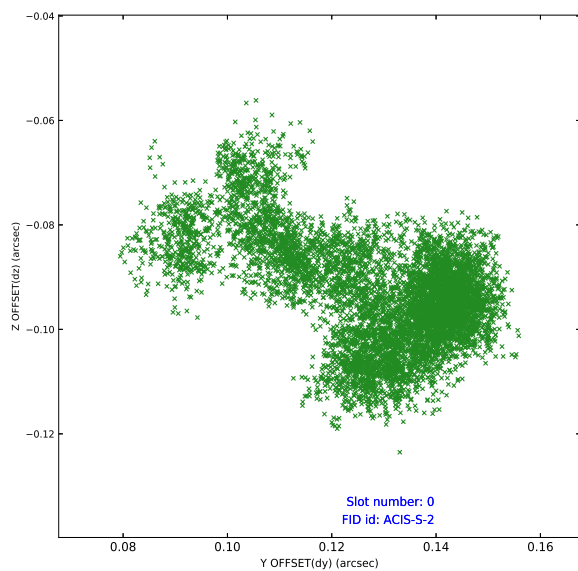


Time (s)

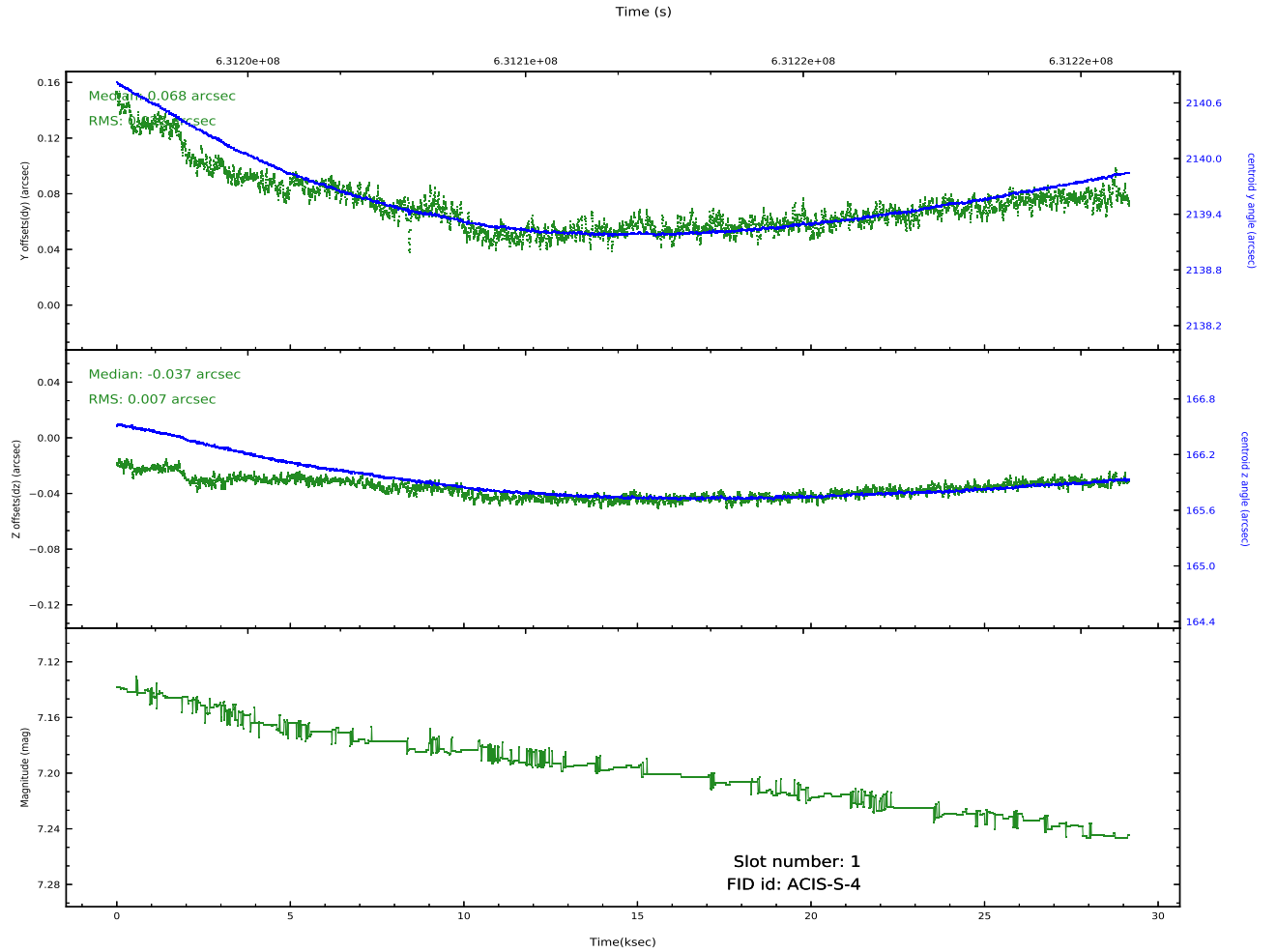
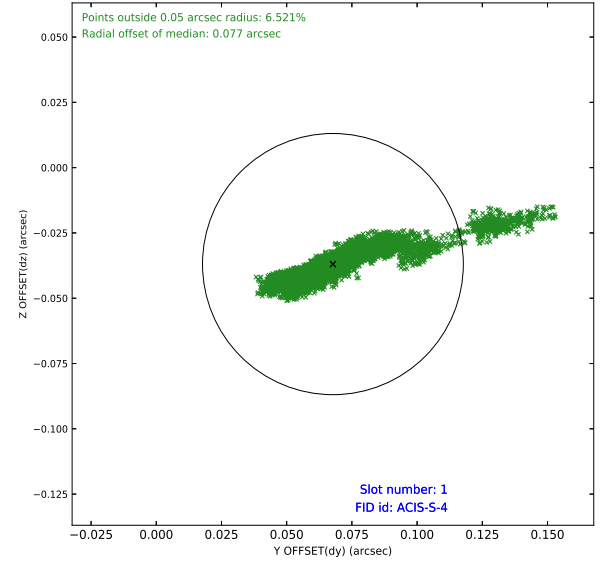
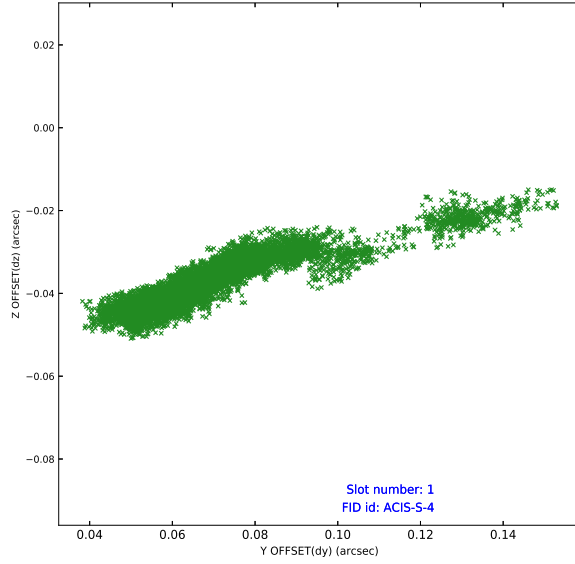


2.5 FID Slots

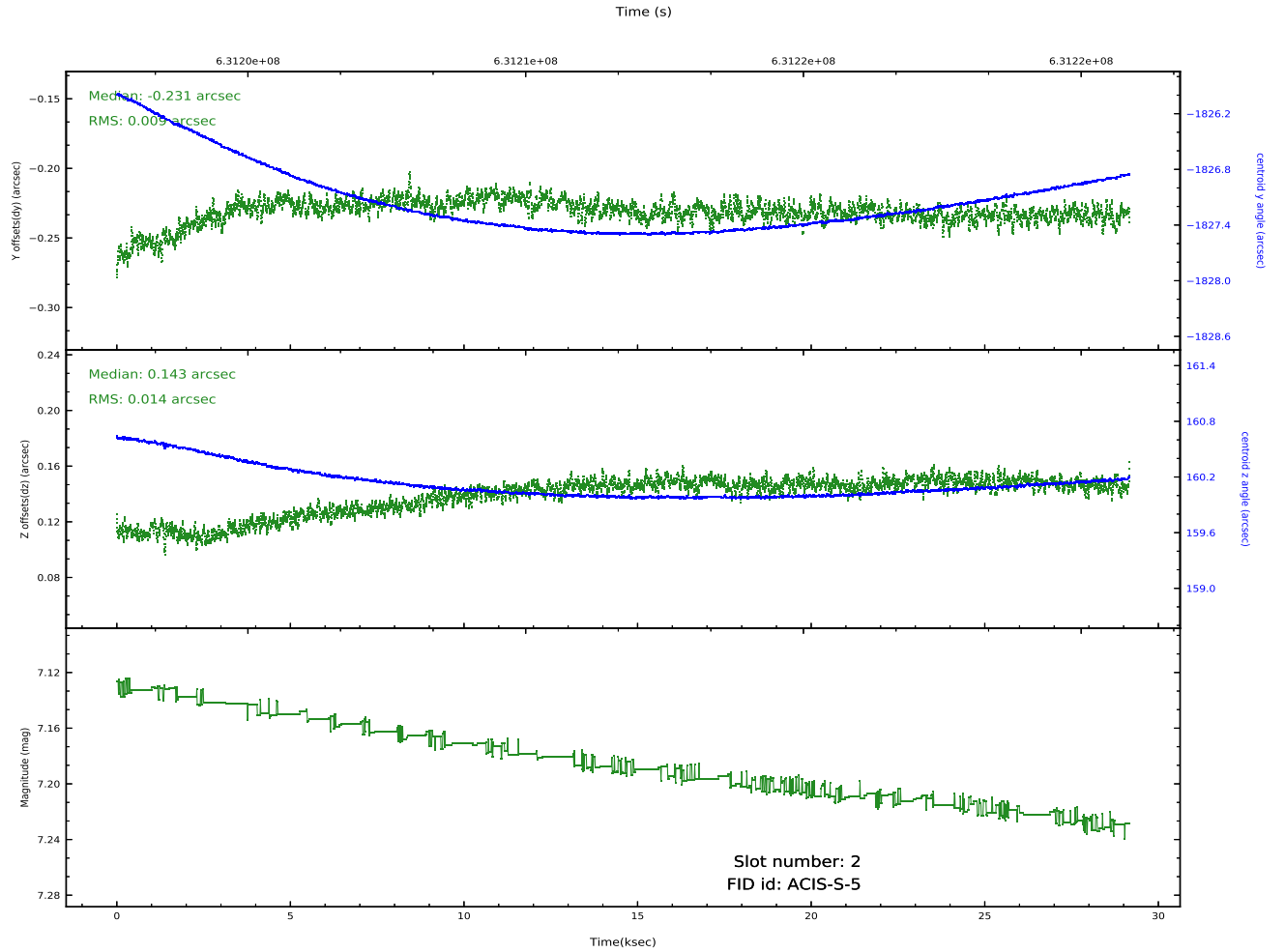
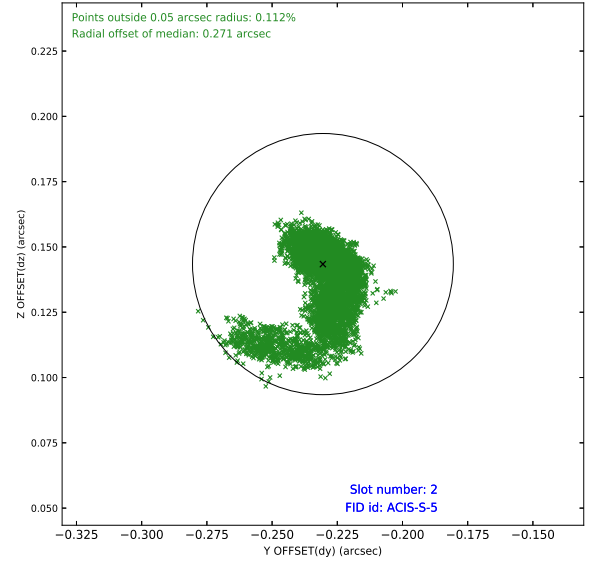
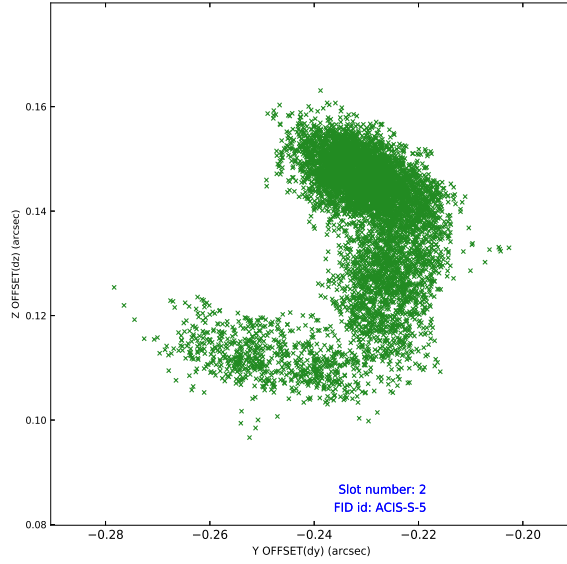
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.112100224018

A.2 Comments