

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20139 - L2 Version 2
Chandra X-Ray Center

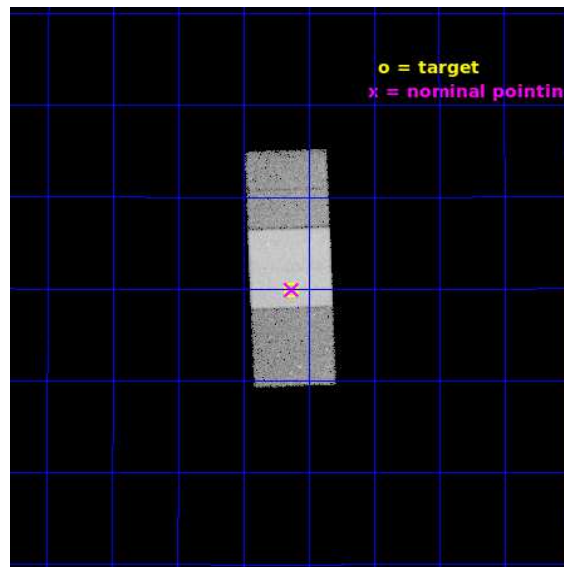
L2 Processing Date : Oct 24 2020

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1 Front

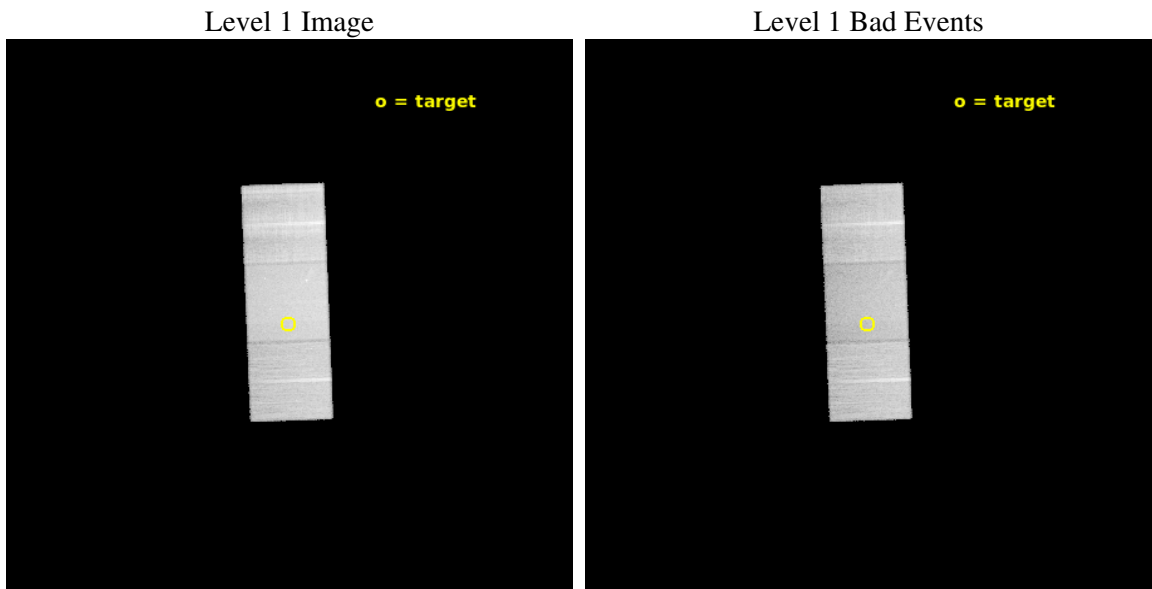
seq_num	201161	Sequence number
obs_id	20139	Observation id
title	A Comprehensive Search for X-ray Emission from the Coolest Magnetically Active Brown Dwarfs	Proposal title
observer	Peter Williams	Principal investigator
object	WISEP J060738.65+242953.4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	91.908333	Observer's specified target RA [deg]
dec_targ	24.4975	Observer's specified target Dec [deg]
ra_nom	91.906956647053	Nominal RA [deg]
dec_nom	24.498624203016	Nominal Dec [deg]
roll_nom	267.85496283272	Nominal Roll [deg]
revision	2	Processing version of data
ontime	27912.400214791	Sum of GTIs [s]
livetime	27547.704157175	Livetime [s]
ontime6	27912.400214791	Sum of GTIs [s]
ontime7	27912.400214791	Sum of GTIs [s]
ontime8	27909.224814892	Sum of GTIs [s]
l2events	155530	Number of level 2 events



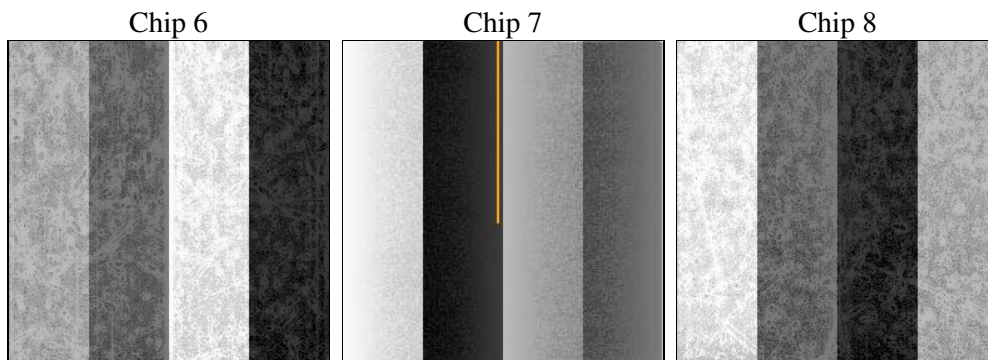
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27800.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	27912.400214791	Sum of GTIs [s]
caldsver	4.9.3	 	ontime6	27912.400214791	Sum of GTIs [s]
date	2020-10-24T09:26:48	Date and time of file creation	ontime7	27912.400214791	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	27909.224814892	Sum of GTIs [s]
			l1events	730229	Number of level 1 events

2.1.4 Events

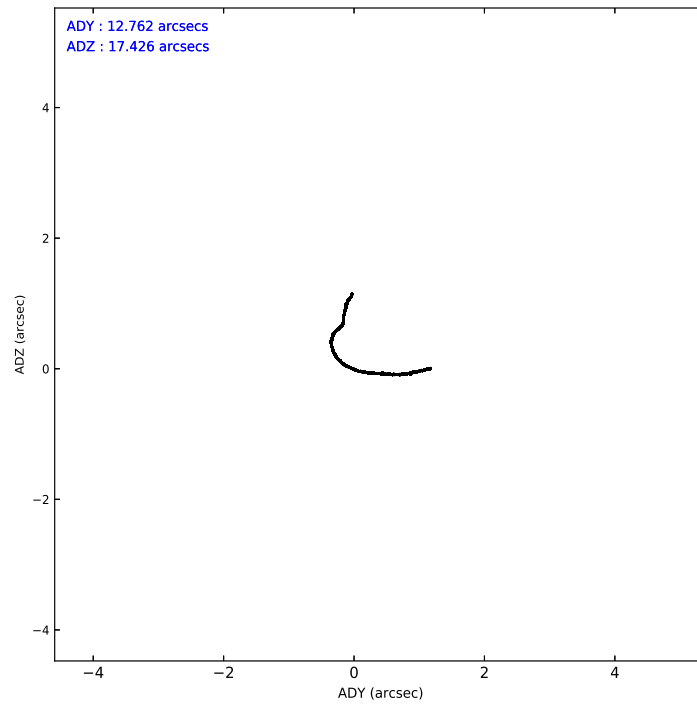
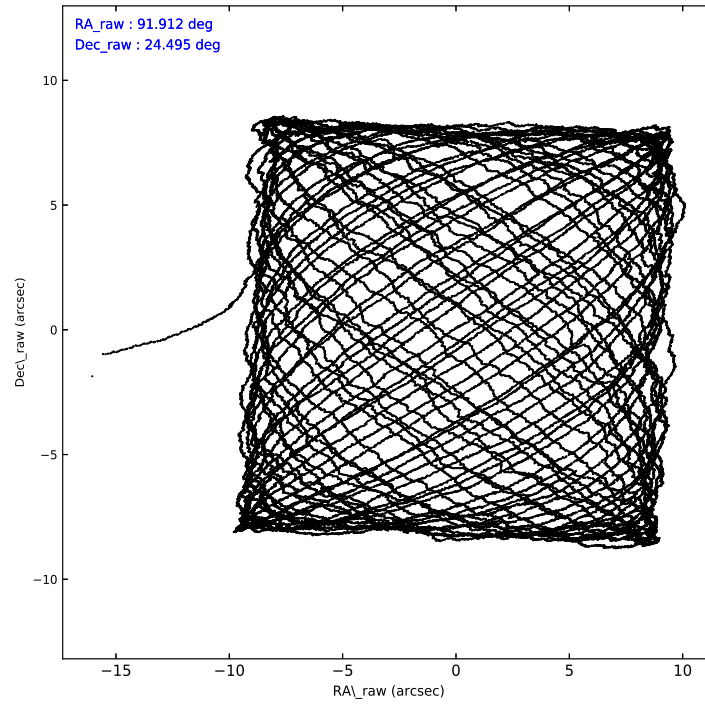
	ccd 6	ccd 7	ccd 8
level 1 events	204574	260683	264972
rejected events	180992	145571	192704
rejected %	88%	55%	72%

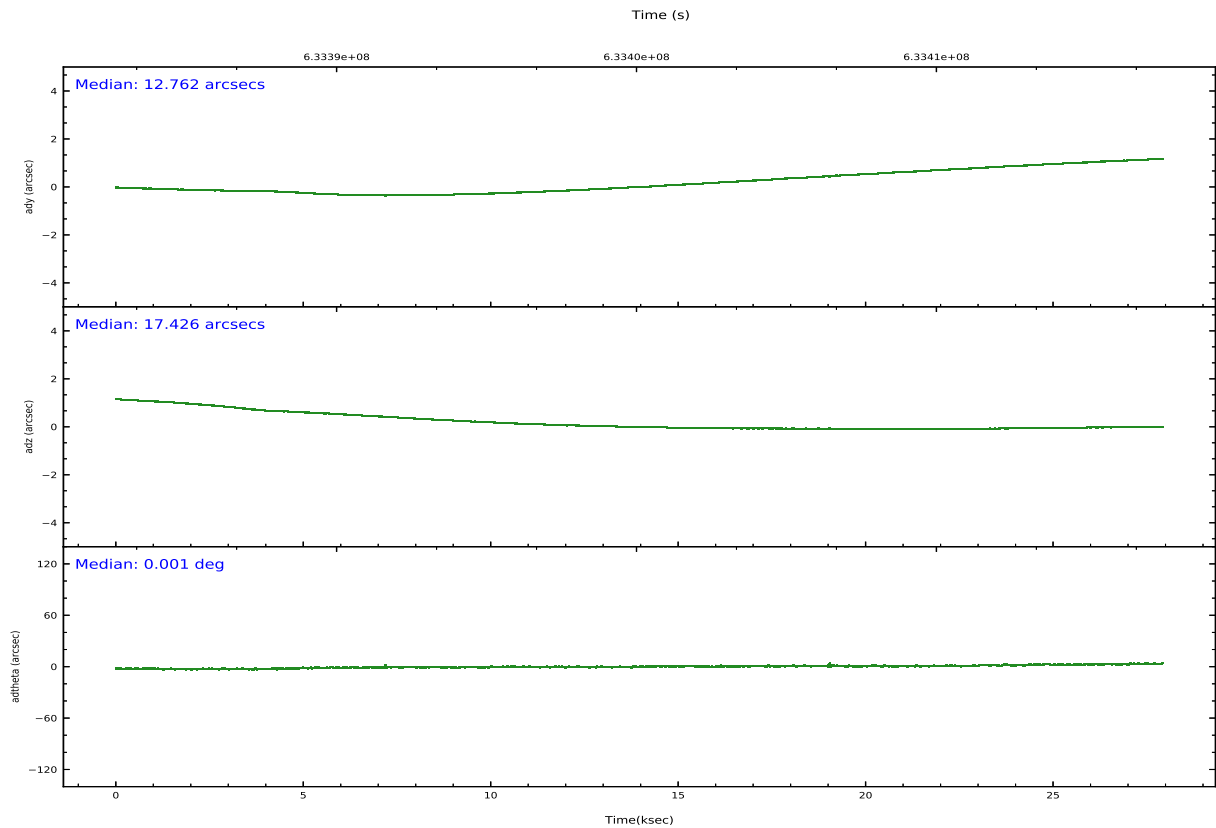
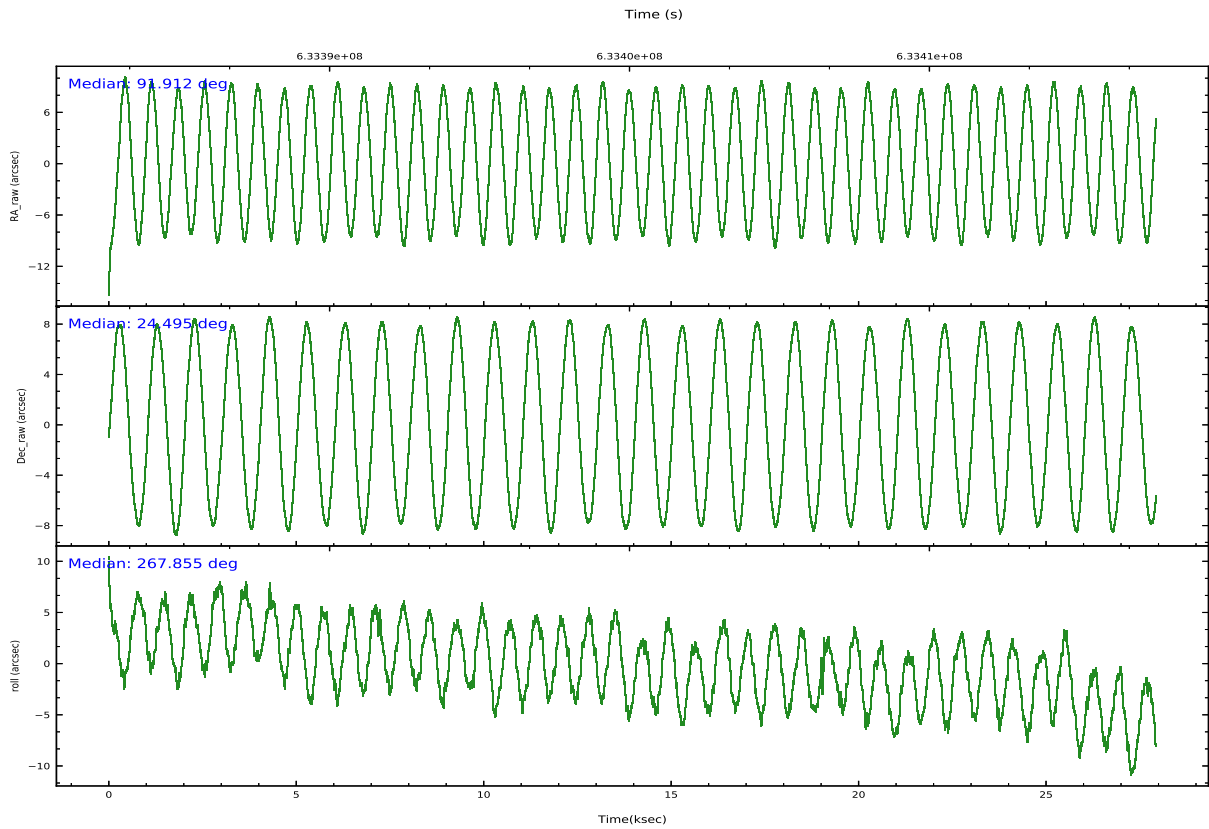
	ccd 6	ccd 7	ccd 8
grade 0 events	7959	9981	20413
	3%	3%	7%
grade 1 events	107	392	216
	0%	0%	0%
grade 2 events	5612	24213	17447
	2%	9%	6%
grade 3 events	2269	9509	7785
	1%	3%	2%
grade 4 events	2295	9177	7222
	1%	3%	2%
grade 5 events	9369	26233	14366
	4%	10%	5%
grade 6 events	5451	62258	19412
	2%	23%	7%
grade 7 events	171512	118920	178111
	83%	45%	67%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	91.897963	91.90695664705299	CCD I2 on	O1	N
[deg] Pointing Dec	24.518720	24.498624203016	CCD I3 on	N	N
[deg] Pointing Roll	267.711077	267.85496283272	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	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	O4	Y
[s] Observation start time (MET)	633386248.184000	633385024.47093	CCD S5 on	O2	N
Observation start date	2018-01-26T20:36:19	2018-01-26T20:17:04	Number of optional ACIS chips dropped	3	3
[s] Observation end time (MET)	633414048.184000	633415047.7477	On-chip summing requested	N	N
Observation end date	2018-01-27T04:19:39	2018-01-27T04:37:27	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





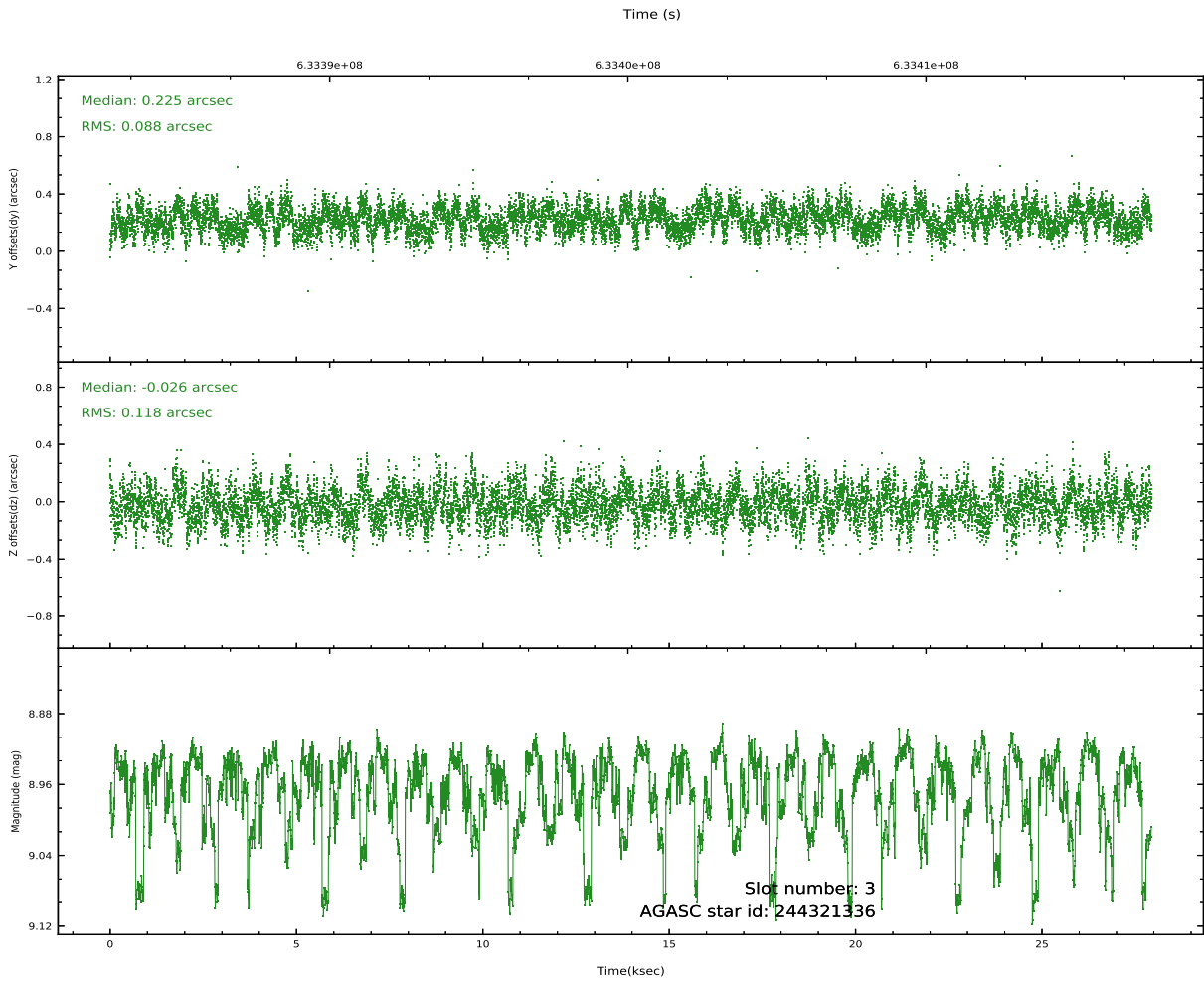
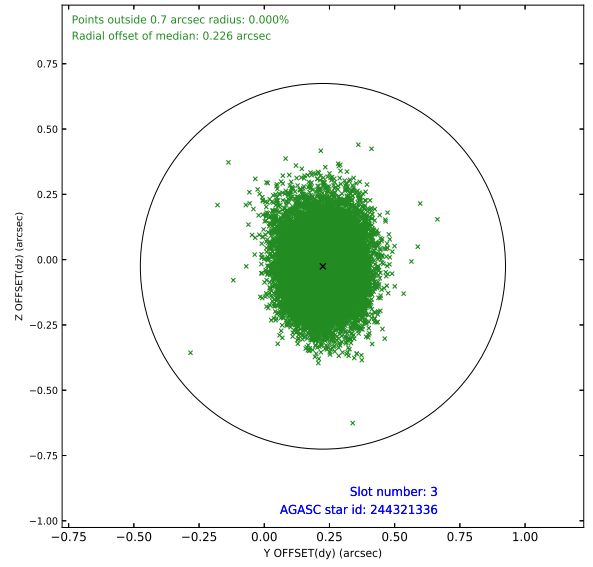
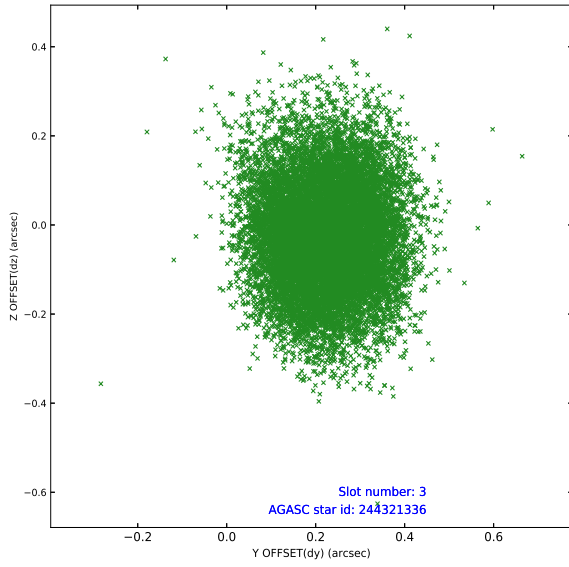
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	6.97	6814	1.000	0.110	-0.087	0.013	0.022	0.000000	0.000000	-765.92	-1739
1	FID		ACIS-S-4	7.09	6814	1.000	0.134	-0.029	0.013	0.022	0.000000	0.000000	2147.50	169
2	FID		ACIS-S-5	7.09	6815	1.000	-0.274	0.124	0.015	0.025	0.000000	0.000000	-1818.87	163
3	GUIDE	used	244321336	8.97	13619	1.000	0.225	-0.026	0.156	0.252	91.288838	24.344774	701.98	-1971
4	GUIDE	used	246023936	8.09	13627	1.000	-0.121	0.121	0.102	0.178	92.253605	24.265615	862.58	1202
5	GUIDE	used	244321104	8.69	13622	1.000	0.157	-0.032	0.125	0.224	92.046020	23.861083	2346.61	582
6	GUIDE	used	244865032	8.56	13626	1.000	-0.185	0.133	0.121	0.206	91.176308	25.178670	-2284.77	-2444
7	GUIDE	used	244852616	9.24	13621	1.000	-0.085	-0.196	0.131	0.213	91.979983	24.836242	-1152.79	221

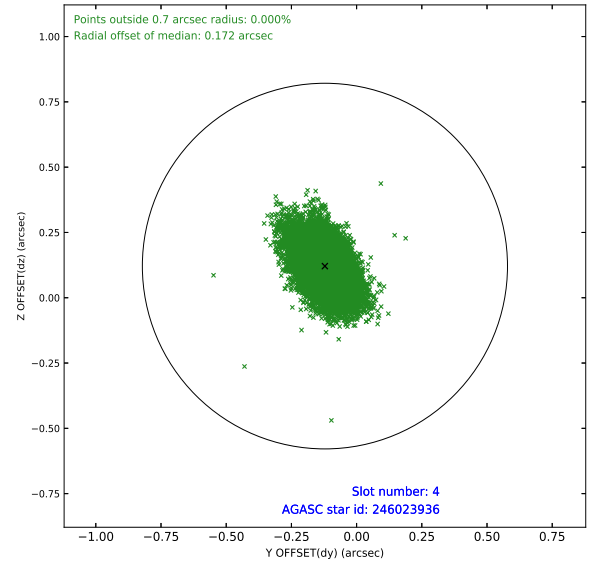
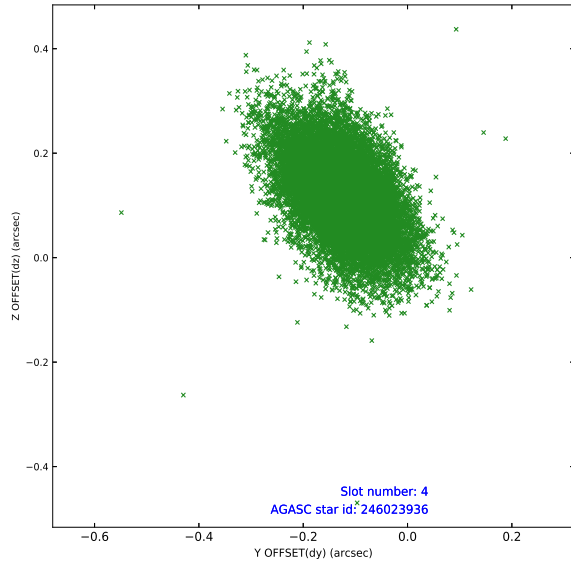
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2.4 Star Slots

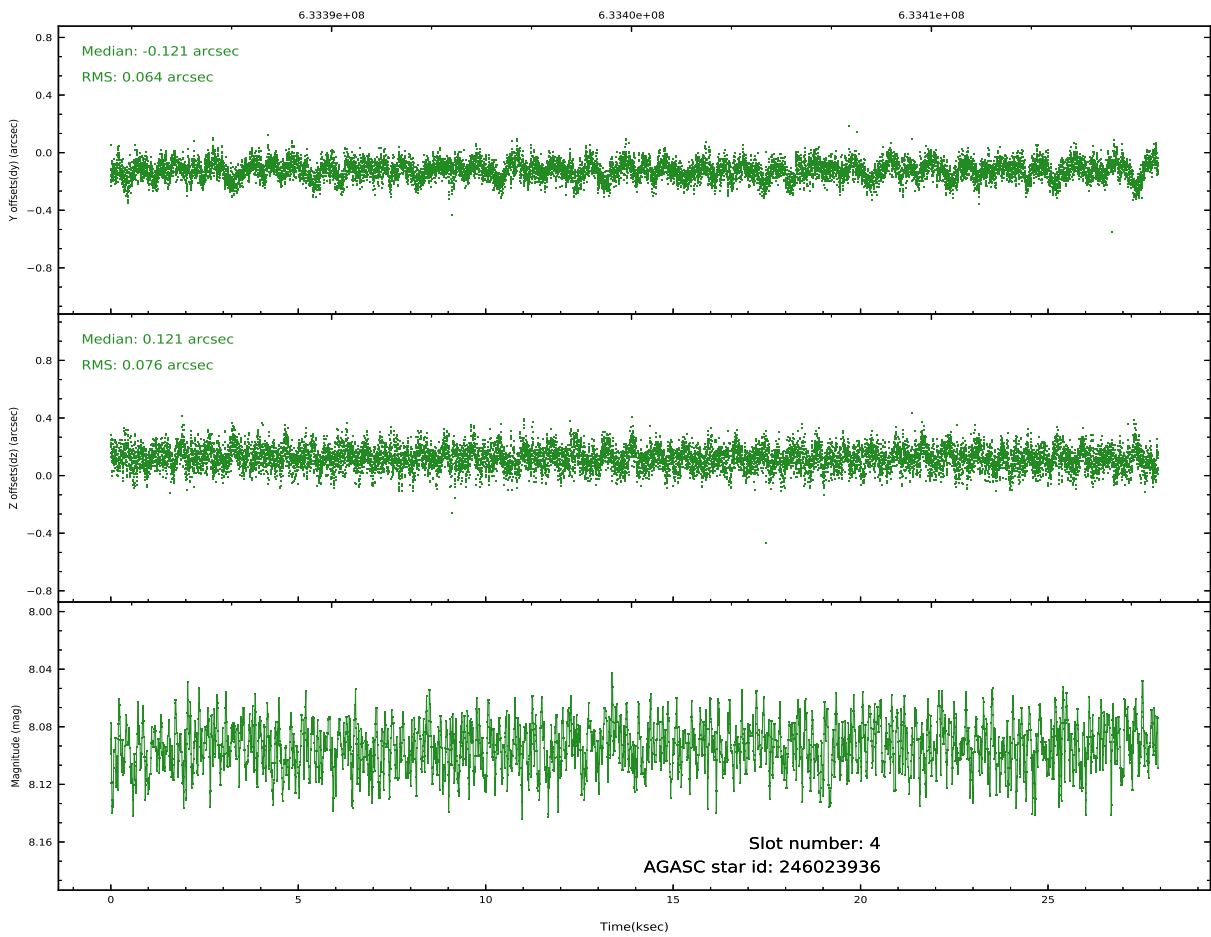
2.4.1 Slot 3



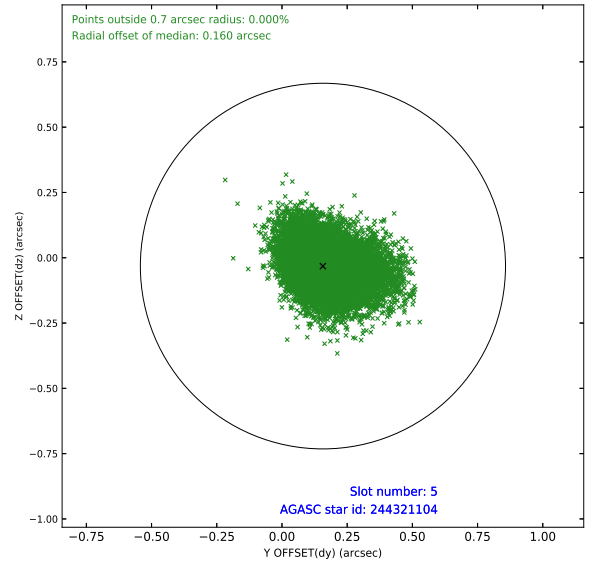
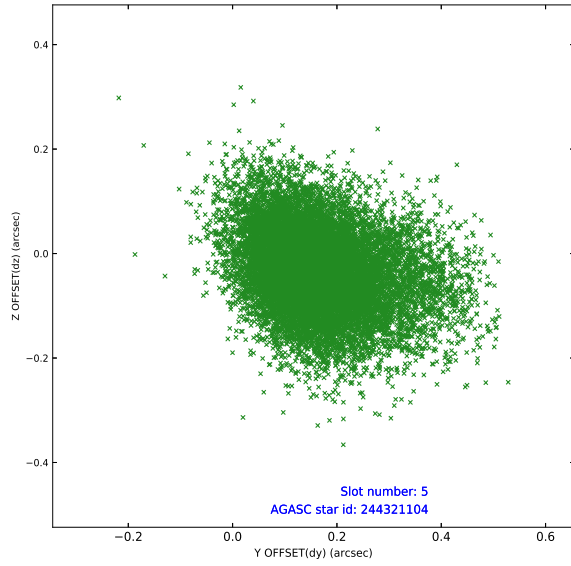
2.4.2 Slot 4



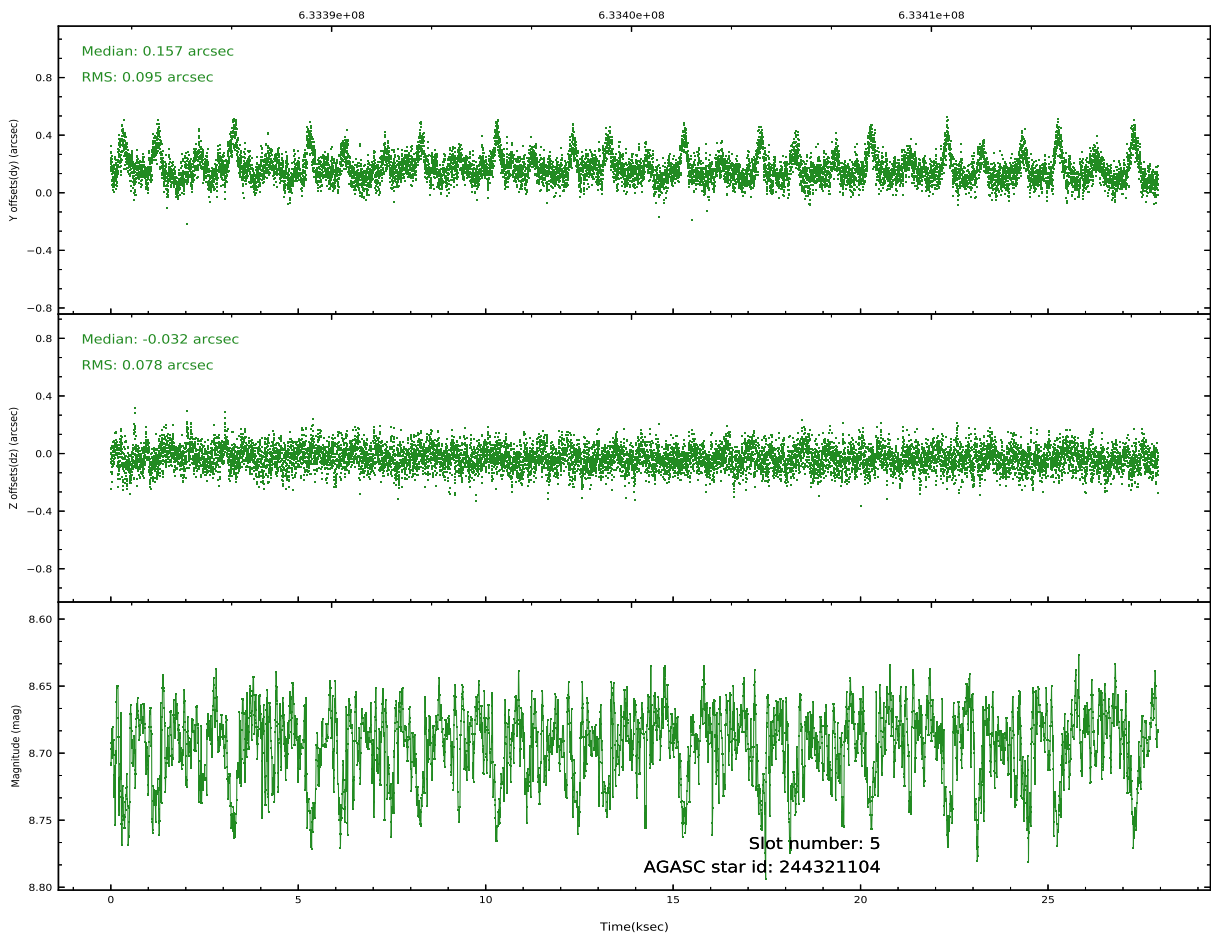
Time (s)



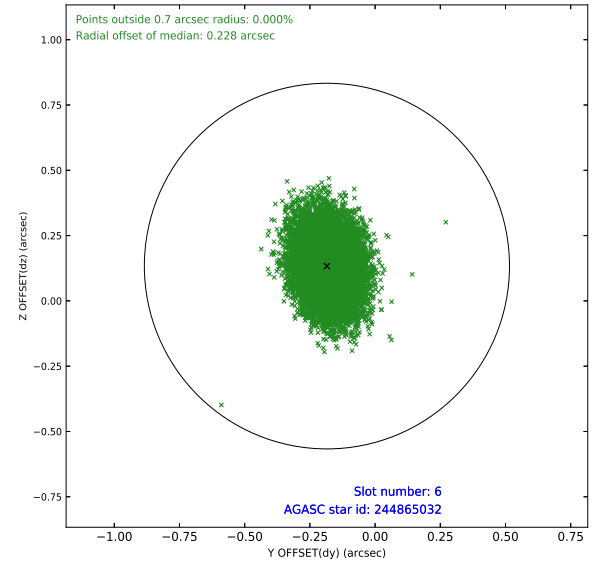
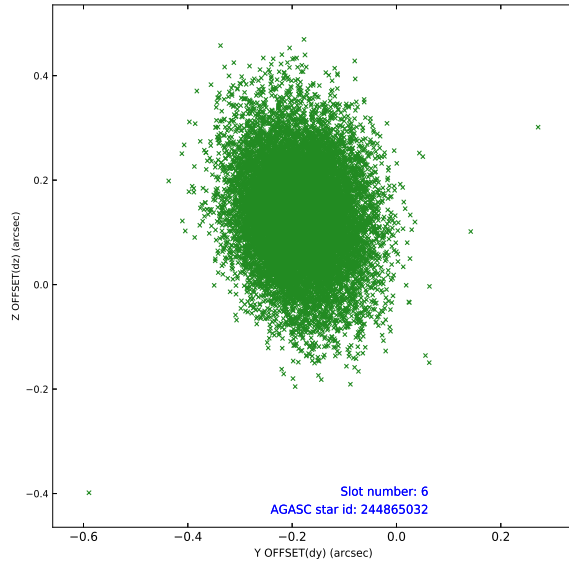
2.4.3 Slot 5



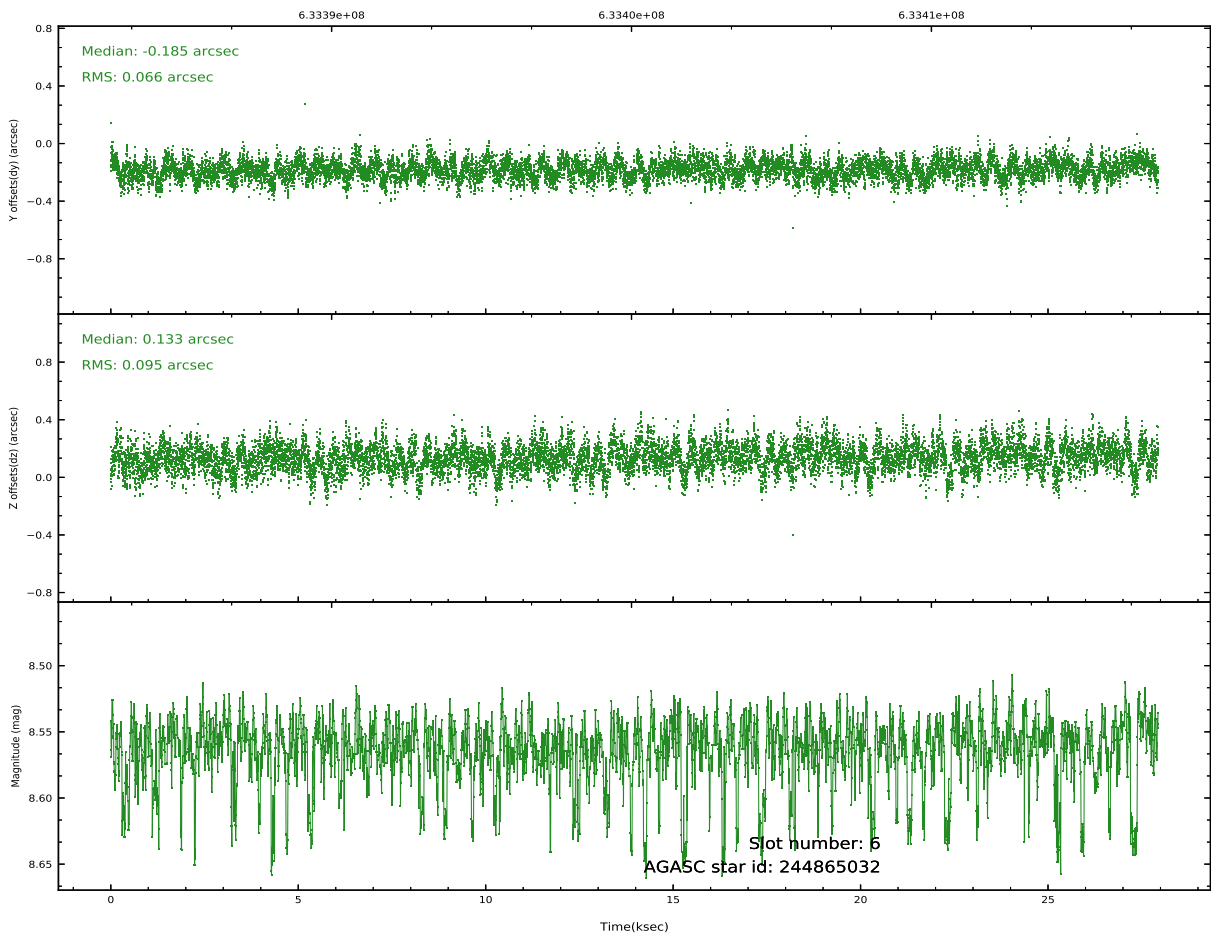
Time (s)



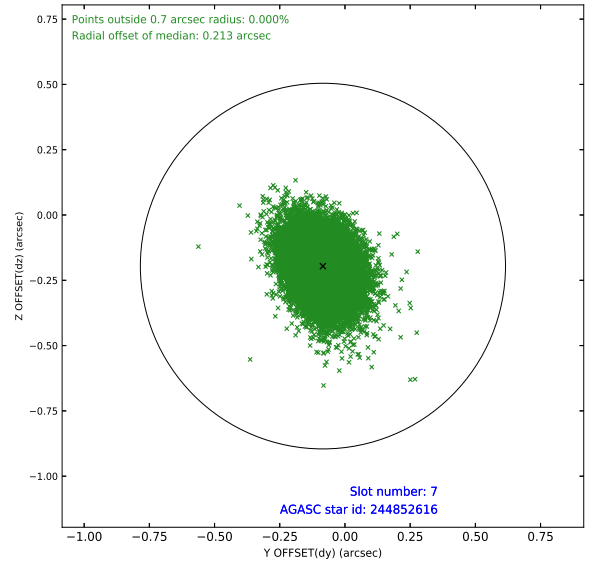
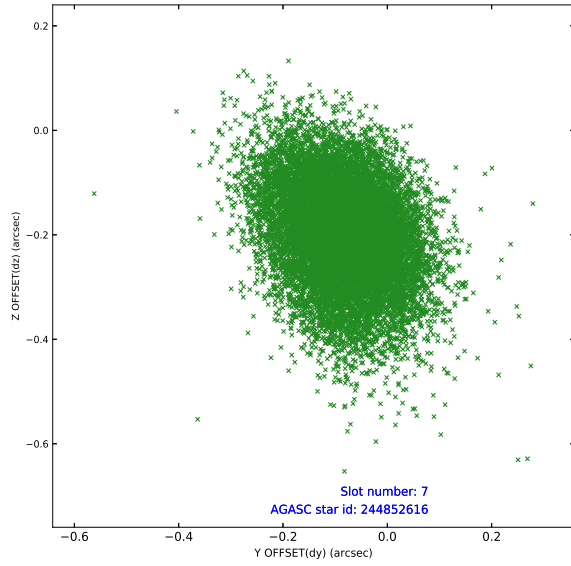
2.4.4 Slot 6



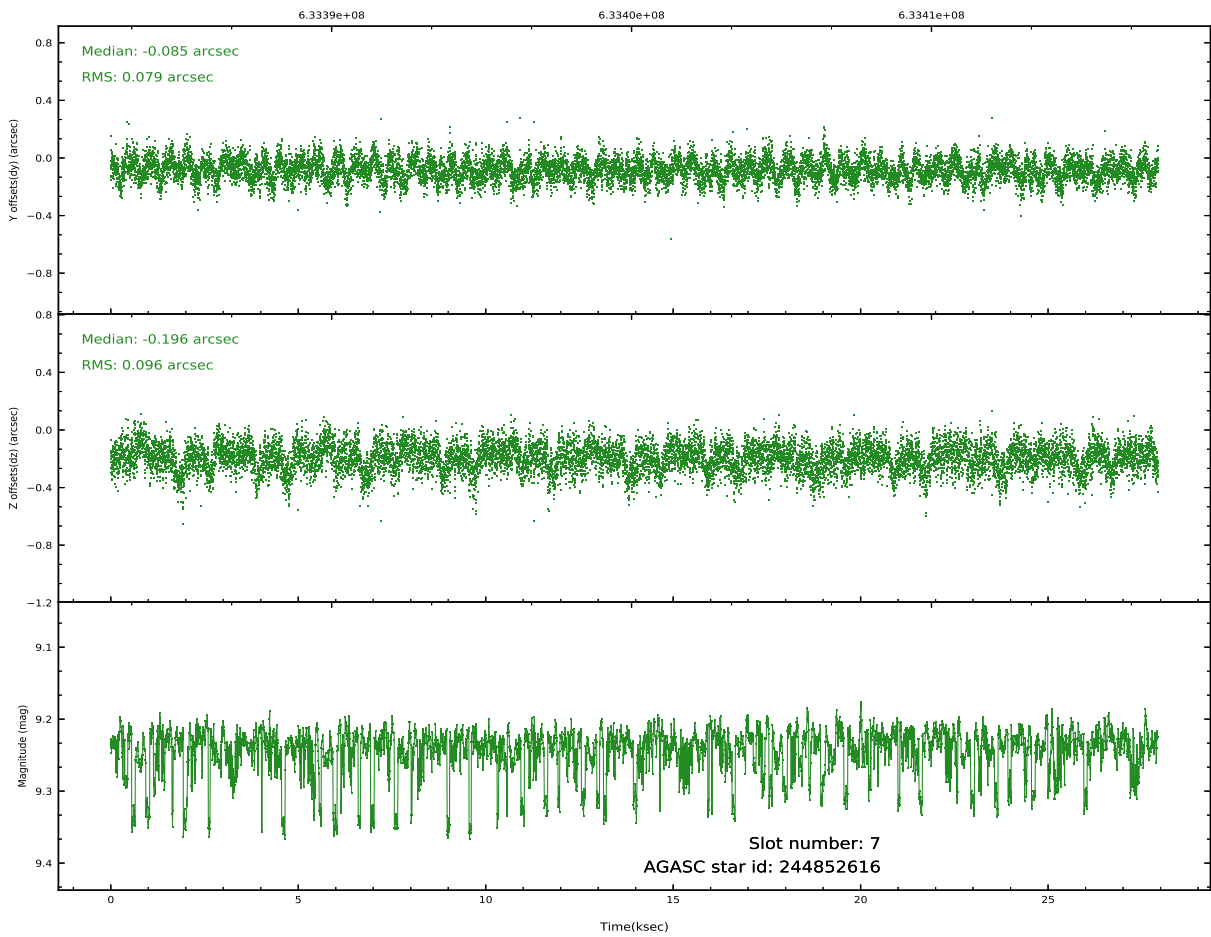
Time (s)



2.4.5 Slot 7

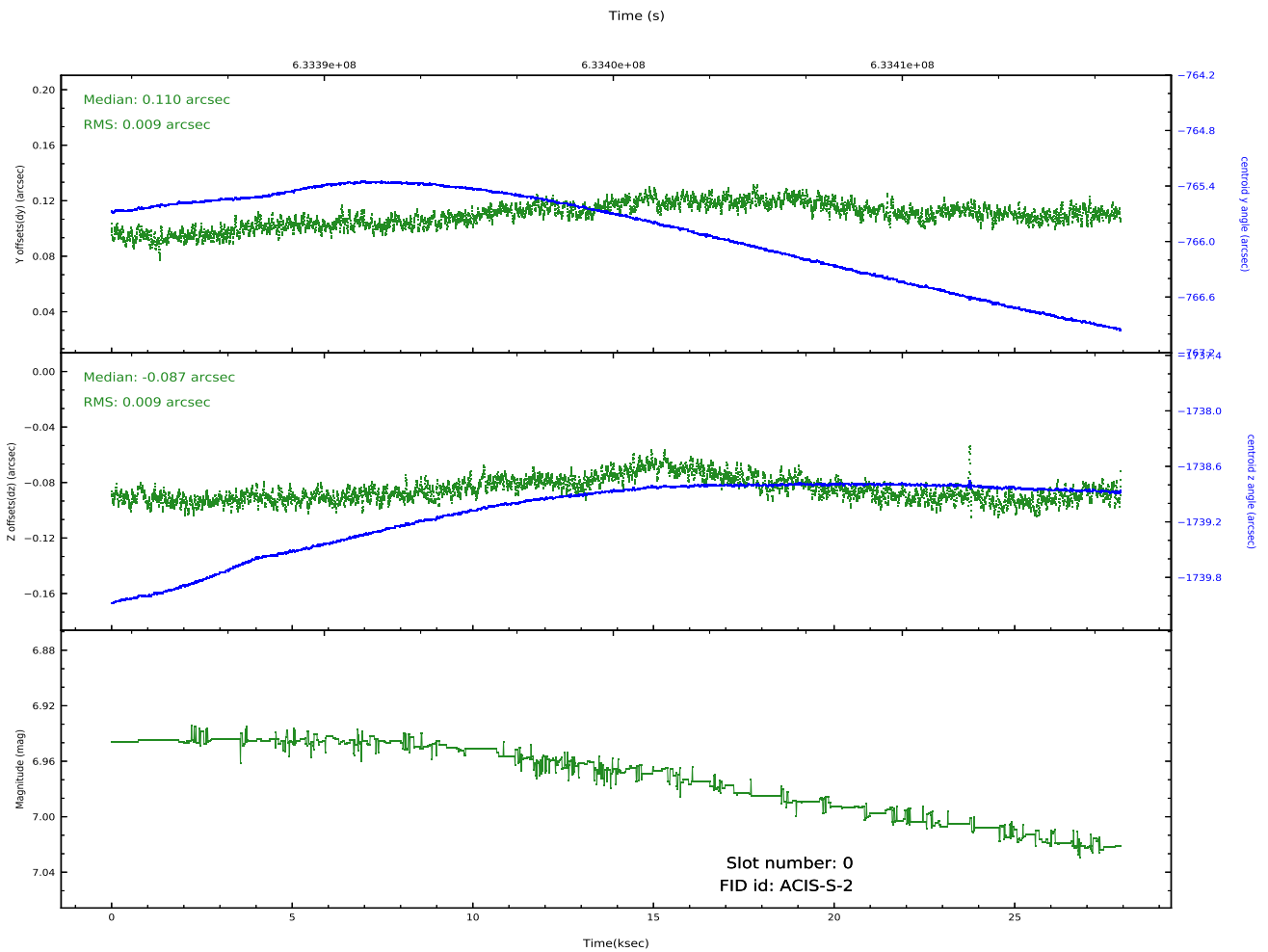
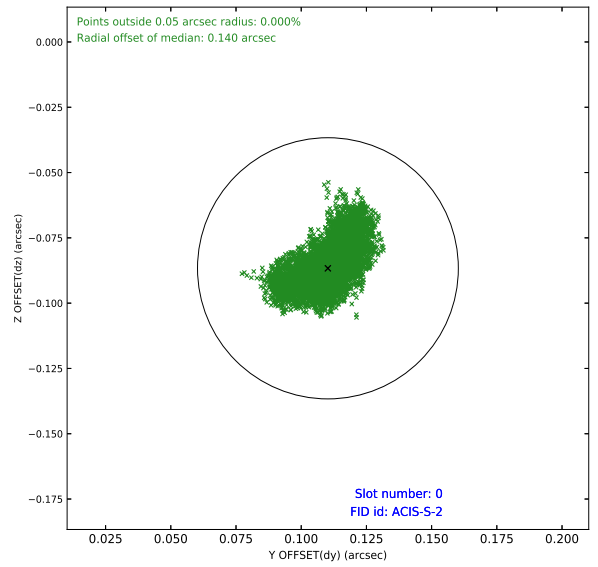
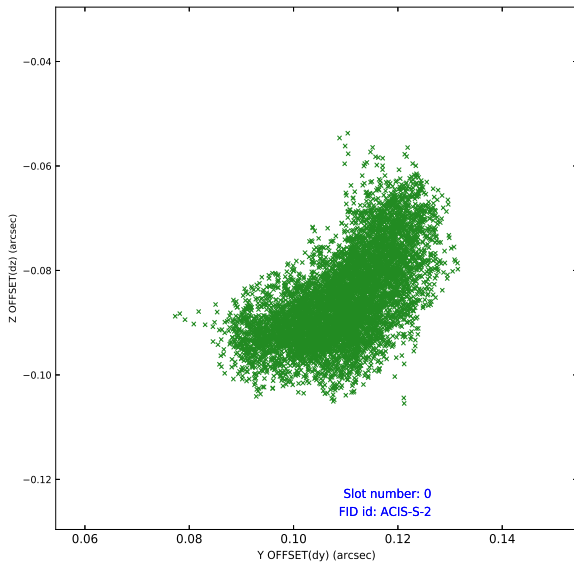


Time (s)

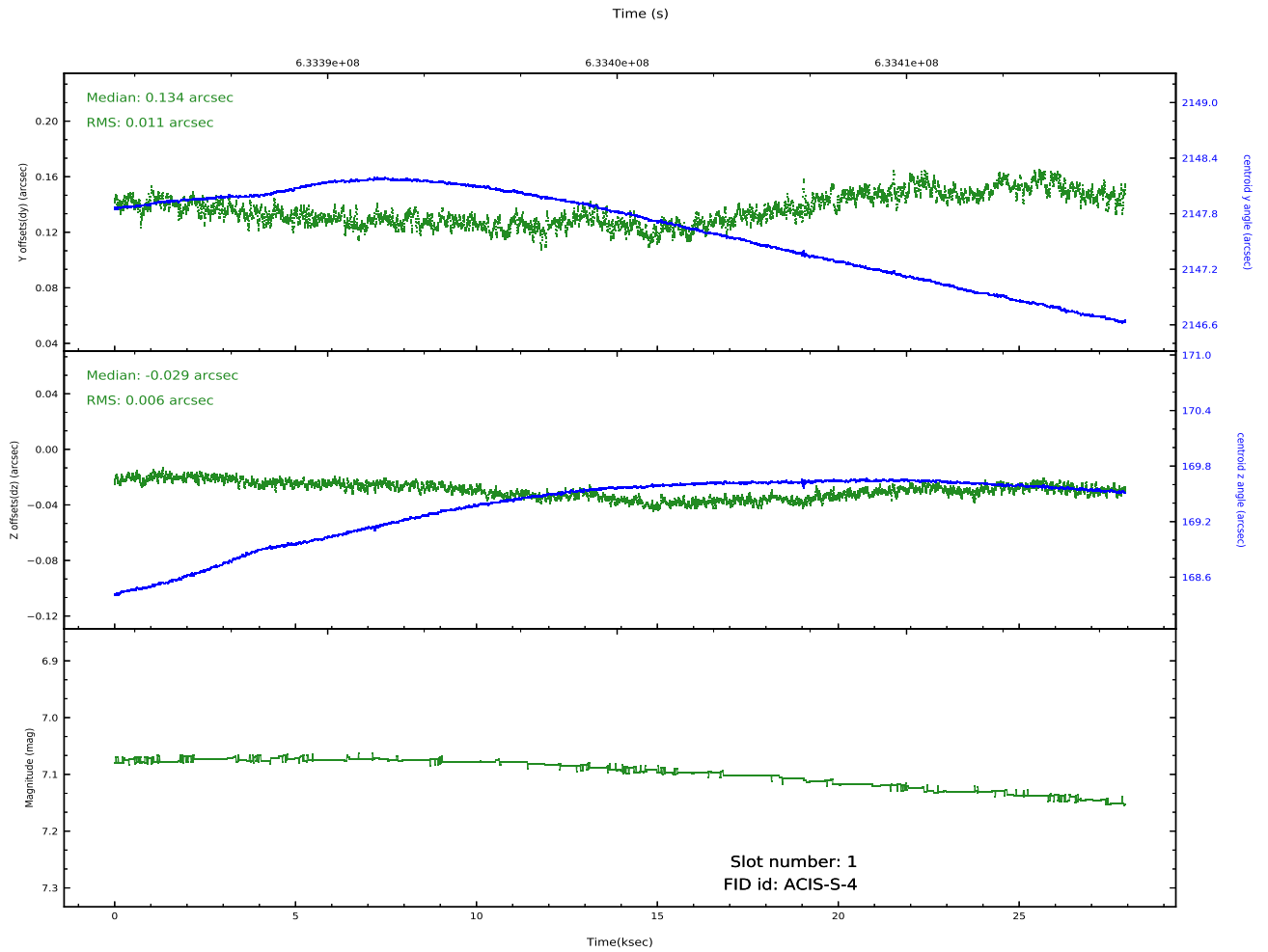
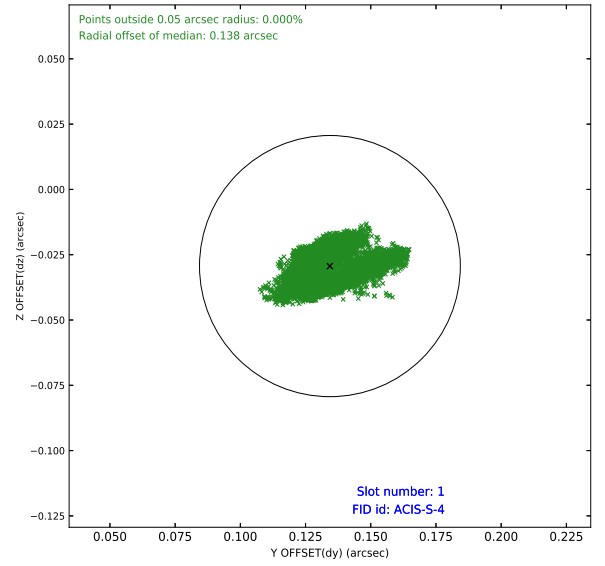
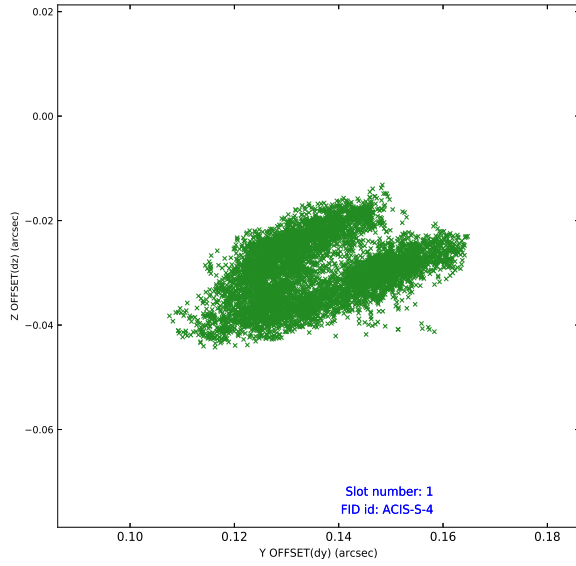


2.5 FID Slots

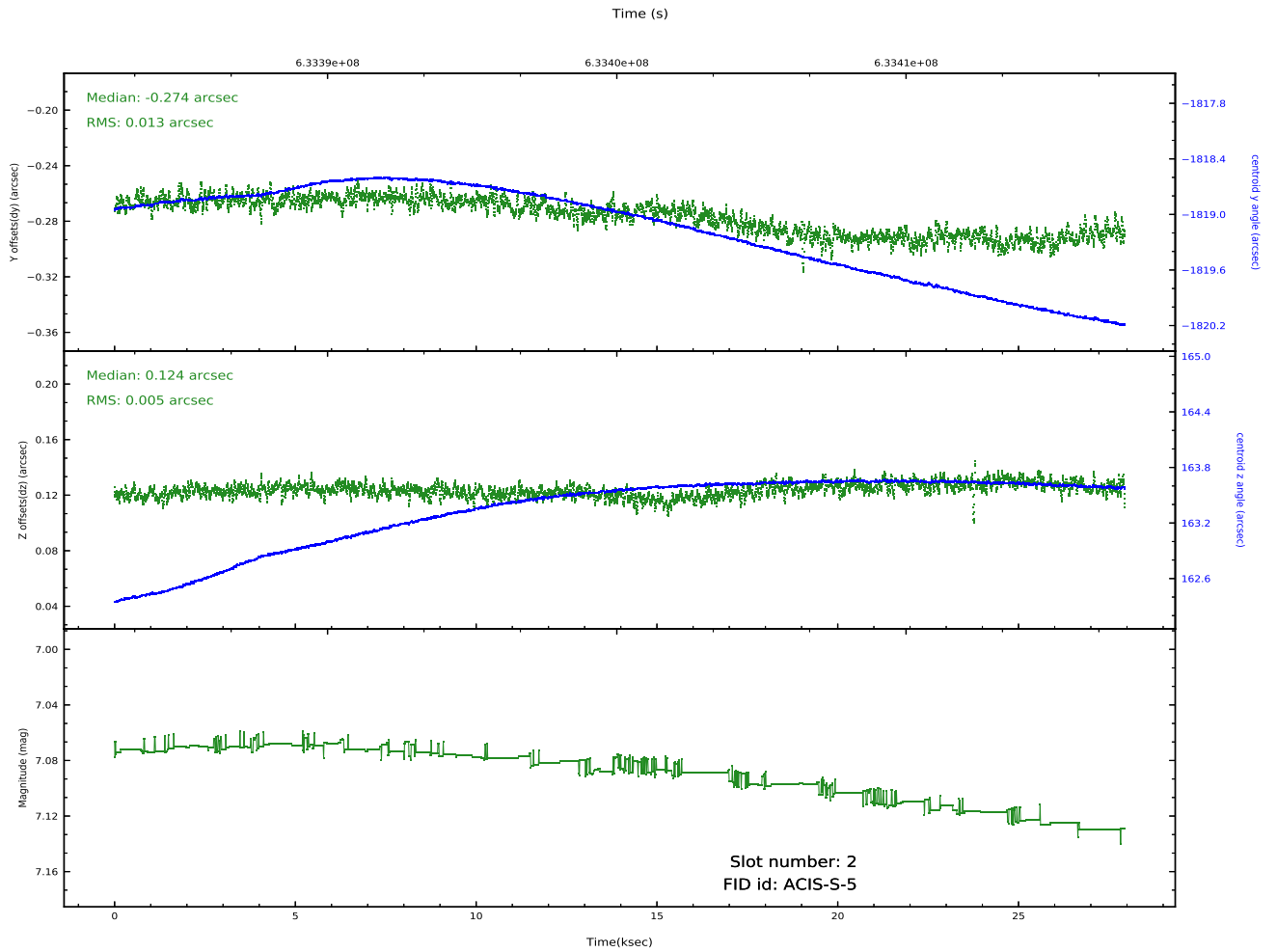
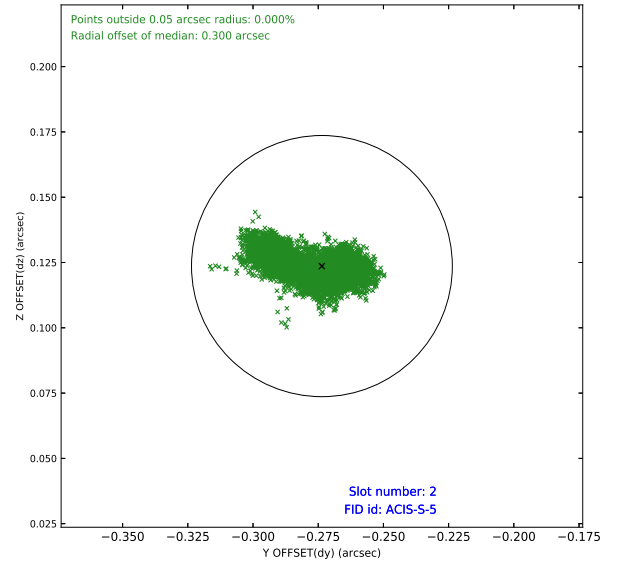
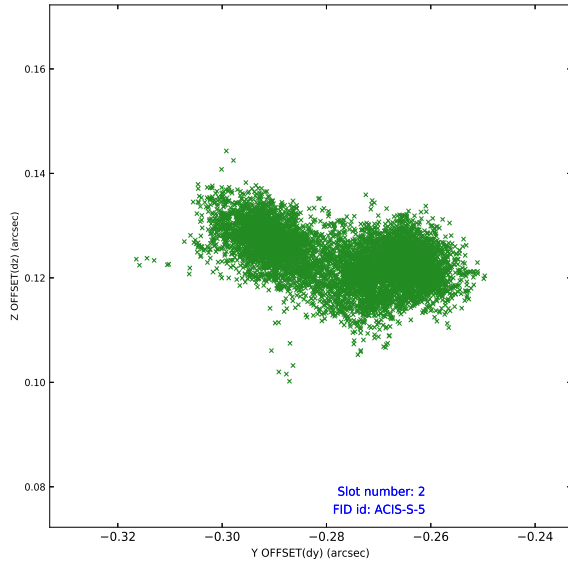
2.5.1 Slot 0



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	27.912400214791

A.2 Comments

Three optional chips were dropped.