

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5669 - L2 Version 5
Chandra X-Ray Center

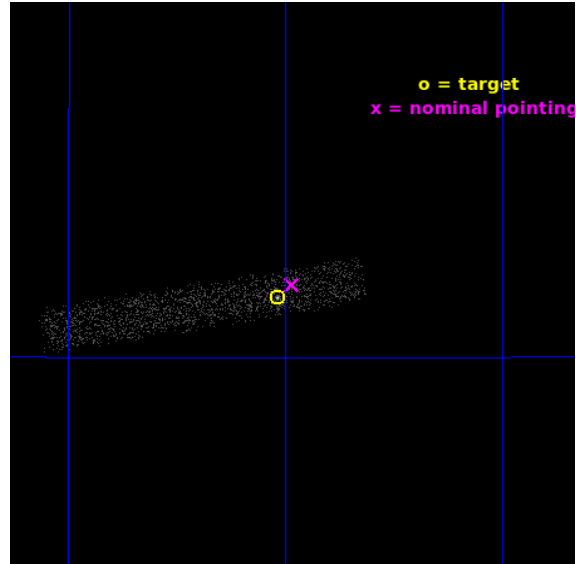
L2 Processing Date : Oct 10 2020

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1 Front

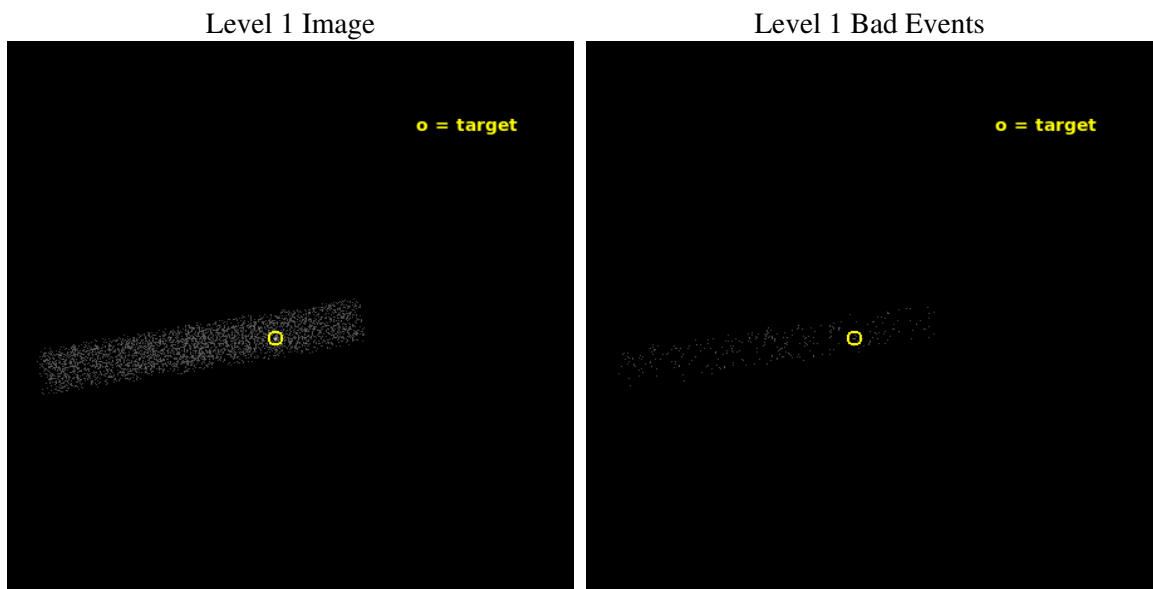
seq_num	701092	Sequence number
obs_id	5669	Observation id
title	Gems in the Chandra Deep Fields: The Nature of Optically Passive X-ray Galaxies (aka XBONGs)	Proposal title
observer	Dr. Sally Laurent-Muehleisen	Principal investigator
object	RGB0013+408	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	3.379583	Observer's specified target RA [deg]
dec_targ	40.860306	Observer's specified target Dec [deg]
ra_nom	3.3711285424514	Nominal RA [deg]
dec_nom	40.866233132673	Nominal Dec [deg]
roll_nom	170.50840452607	Nominal Roll [deg]
revision	5	Processing version of data
ontime	3131.6000466347	Sum of GTIs [s]
livetime	2840.1959428938	Livetime [s]
ontime7	3131.6000466347	Sum of GTIs [s]
l2events	2795	Number of level 2 events



2 OBI

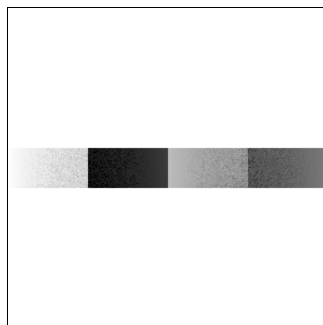
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2969.993000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	3131.6000466347	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	3131.6000466347	Sum of GTIs [s]
date	2020-10-10T13:01:05	Date and time of file creation	l1events	6982	Number of level 1 events
revision	5	Processing version of data			

2.1.4 Events

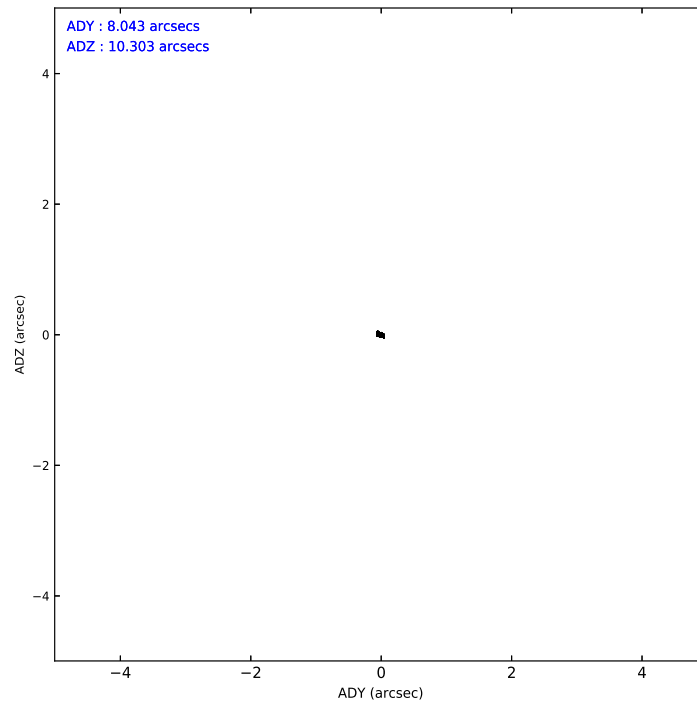
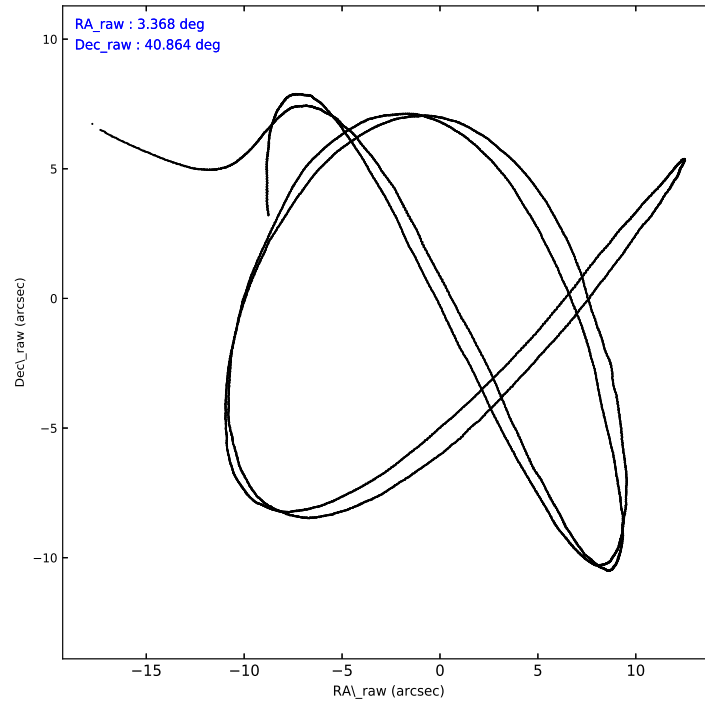
	ccd 7
level 1 events	6982
rejected events	4084
rejected %	58%

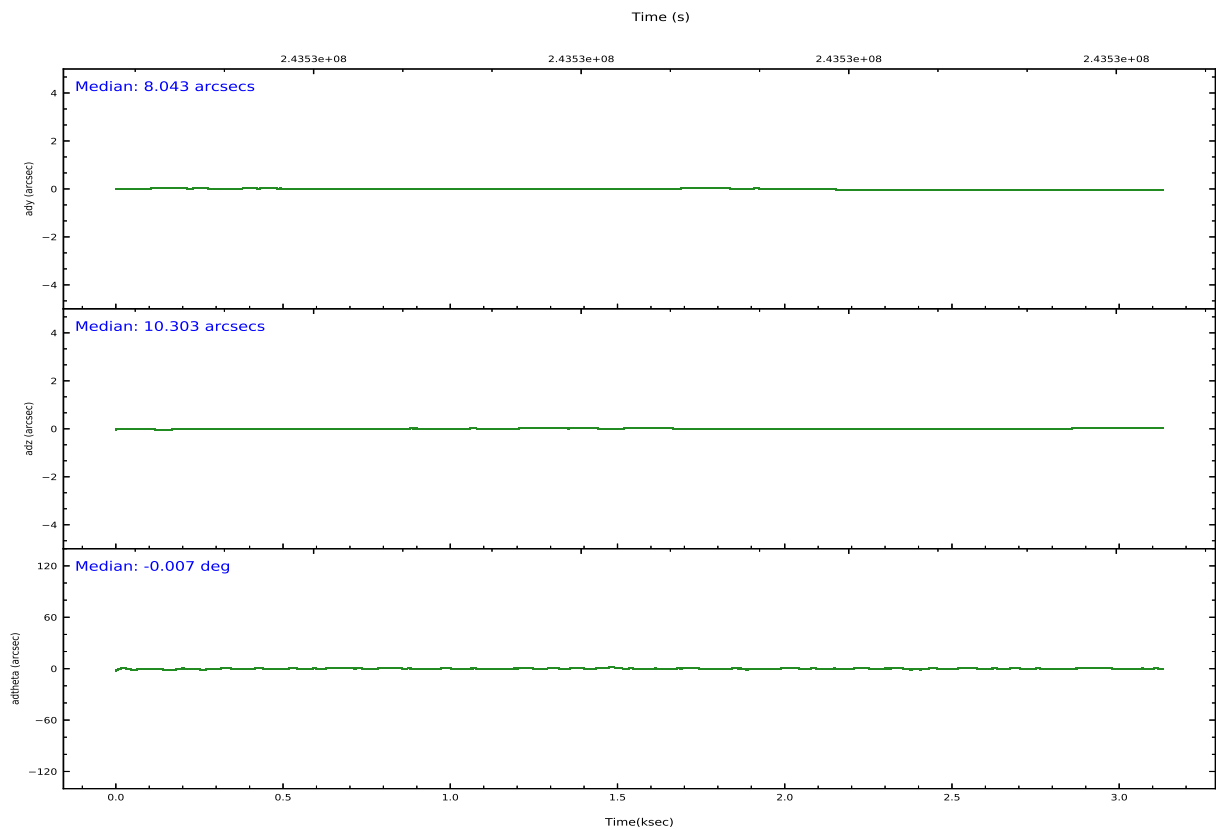
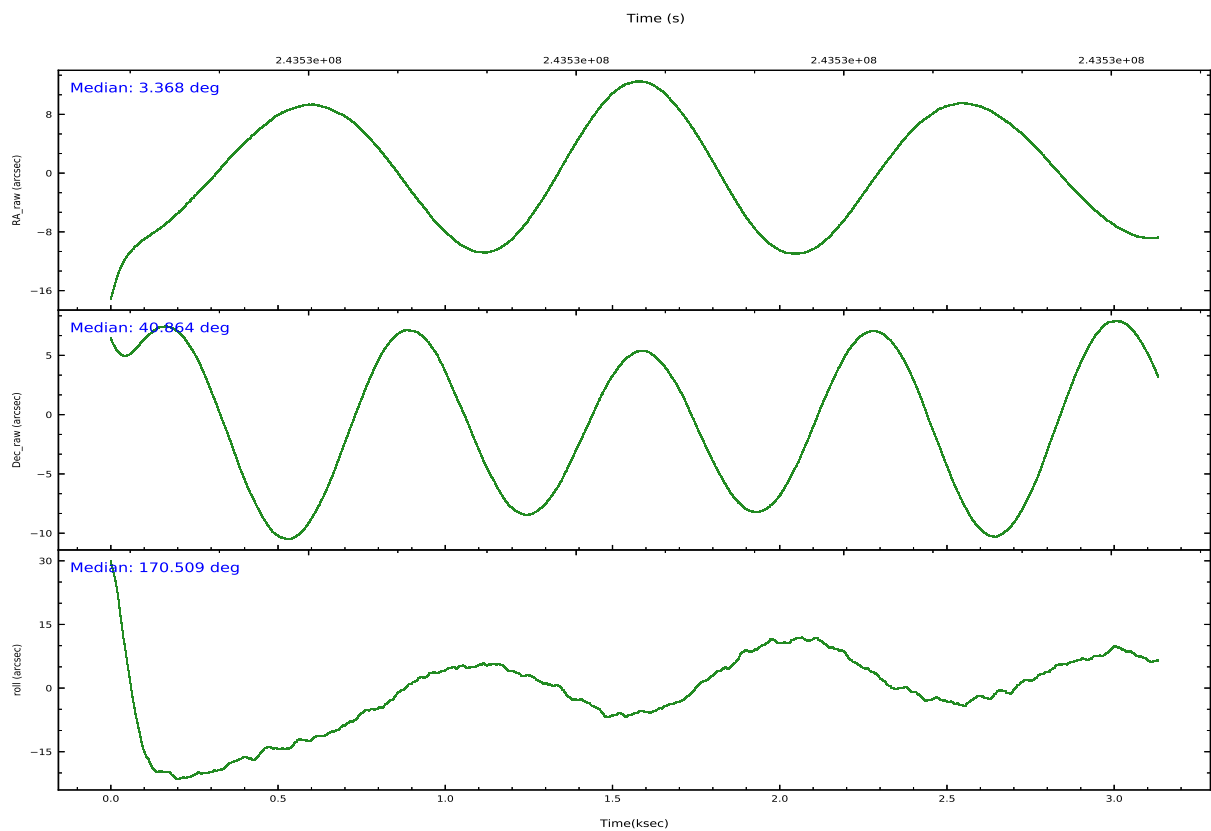
	ccd 7
grade 0 events	619
	8%
grade 1 events	6
	0%
grade 2 events	800
	11%
grade 3 events	464
	6%
grade 4 events	435
	6%
grade 5 events	544
	7%
grade 6 events	1589
	22%
grade 7 events	2525
	36%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	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	3.401088	3.3711285424514	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	40.873431	40.866233132673	Subarray start row	449	449
[deg] Pointing Roll	170.331651	170.50840452607	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	243525970.184000	243524395.75356			
Observation start date	2005-09-19T14:05:06	2005-09-19T13:39:55			
[s] Observation end time (MET)	243528940.184000	243529154.31628			
Observation end date	2005-09-19T14:54:36	2005-09-19T14:59:14			
Read mode	TIMED	TIMED			

2.3 Aspect



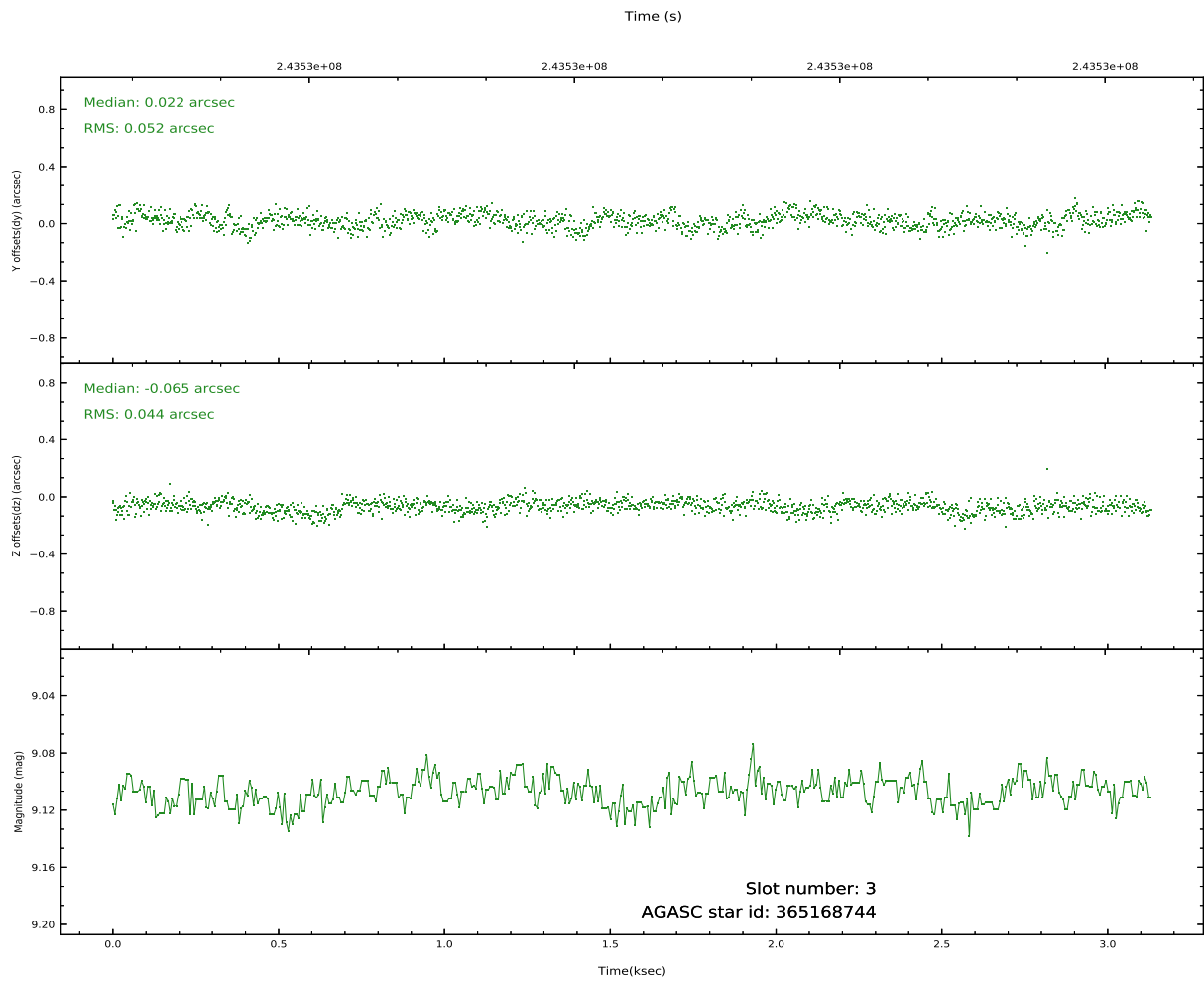
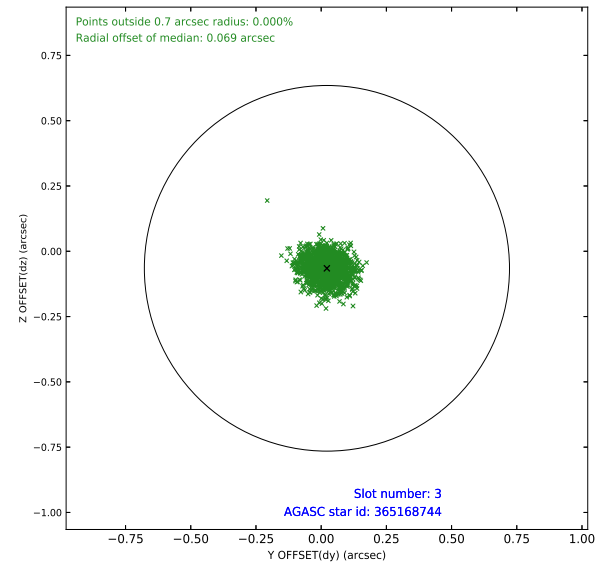
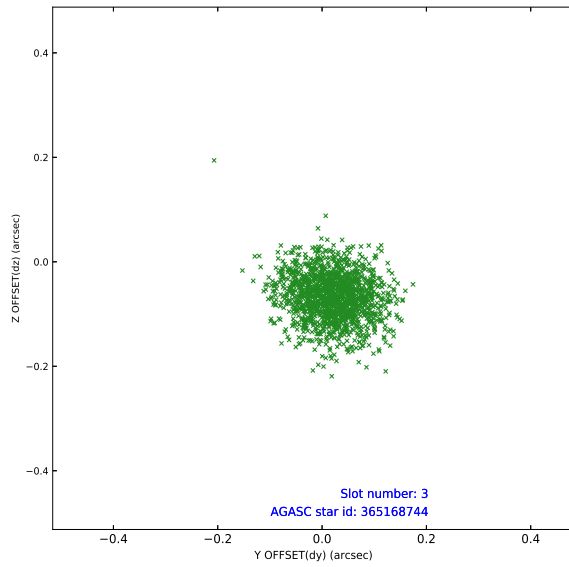


Slot Statistics

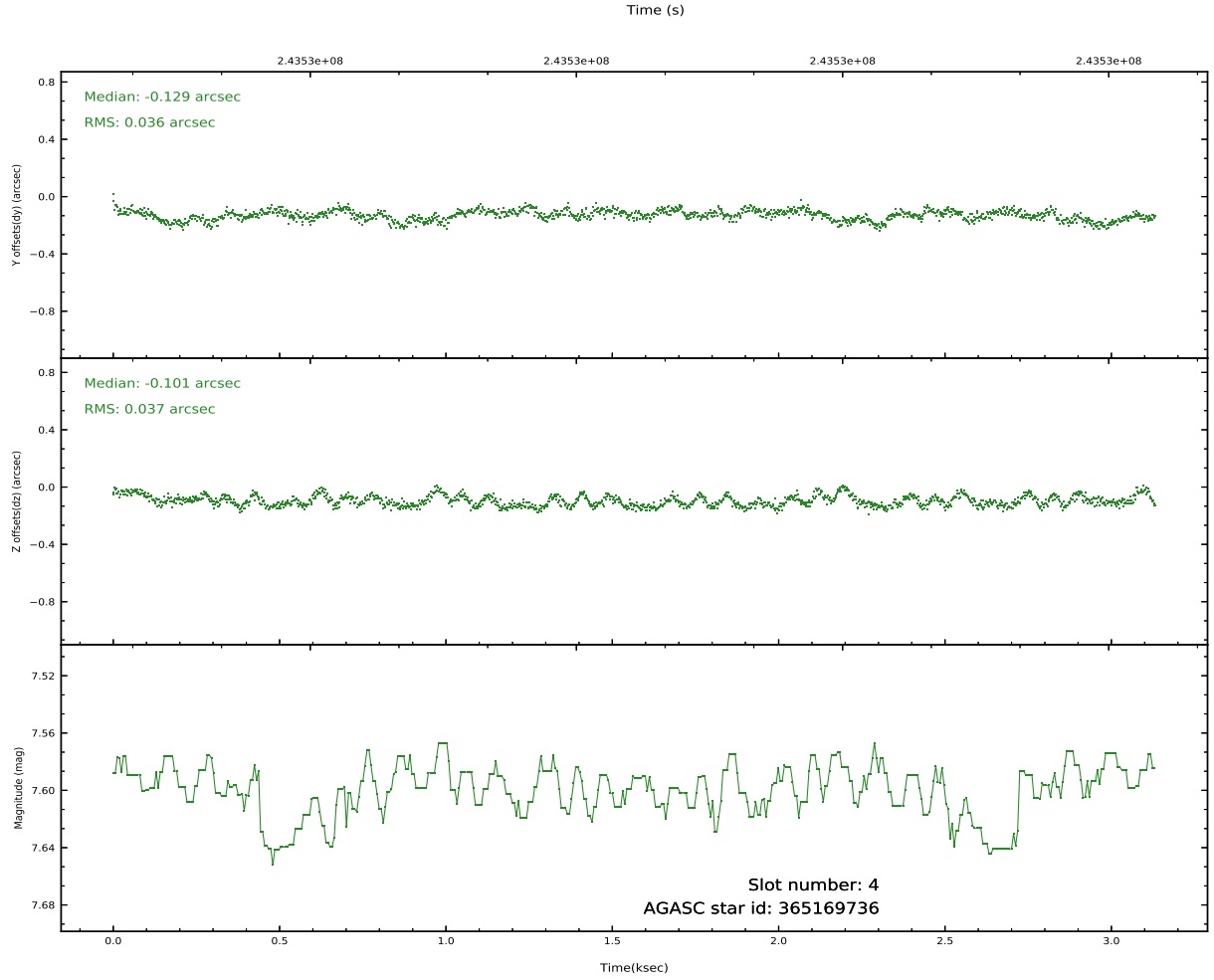
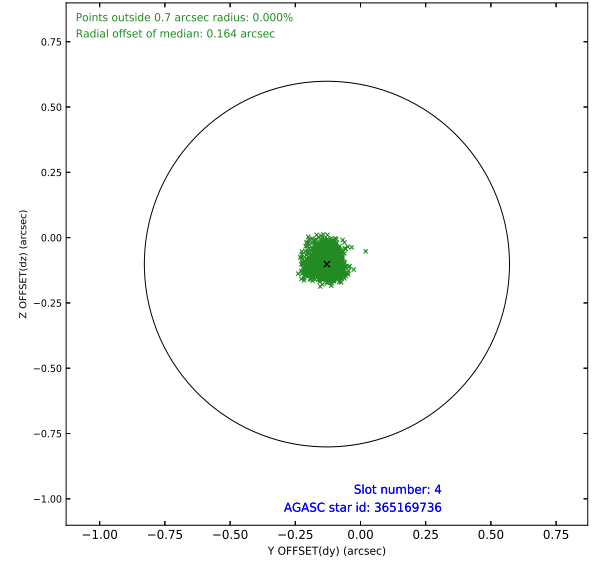
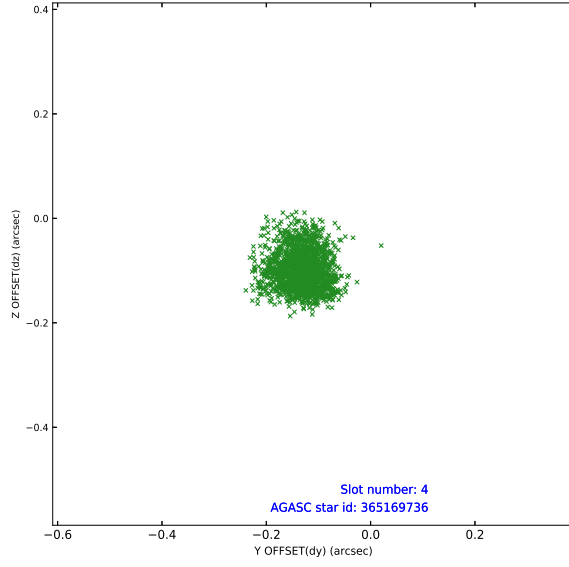
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.20	764	1.000	0.111	-0.051	0.005	0.011	0.000000	0.000000	935.37	-1727
1	FID		ACIS-S-2	7.11	764	1.000	-0.039	-0.015	0.006	0.011	0.000000	0.000000	-759.54	-1733
2	FID		ACIS-S-5	7.23	764	1.000	-0.096	0.073	0.006	0.012	0.000000	0.000000	-1814.95	168
3	GUIDE	used	365168744	9.11	1529	1.000	0.022	-0.065	0.073	0.117	2.586496	40.812790	2152.82	578
4	GUIDE	used	365169736	7.60	1529	1.000	-0.129	-0.101	0.056	0.088	2.873744	40.553668	1230.33	1373
5	GUIDE	used	365171216	7.83	1529	1.000	0.041	-0.063	0.045	0.076	3.489835	40.420221	-513.37	1568
6	GUIDE	used	365699840	8.74	1529	1.000	-0.073	0.189	0.072	0.113	3.337232	41.515989	558.03	-2249
7	GUIDE	used	365705576	9.35	1527	1.000	0.139	0.039	0.086	0.139	4.107749	41.278690	-1637.94	-1768

2.4 Star Slots

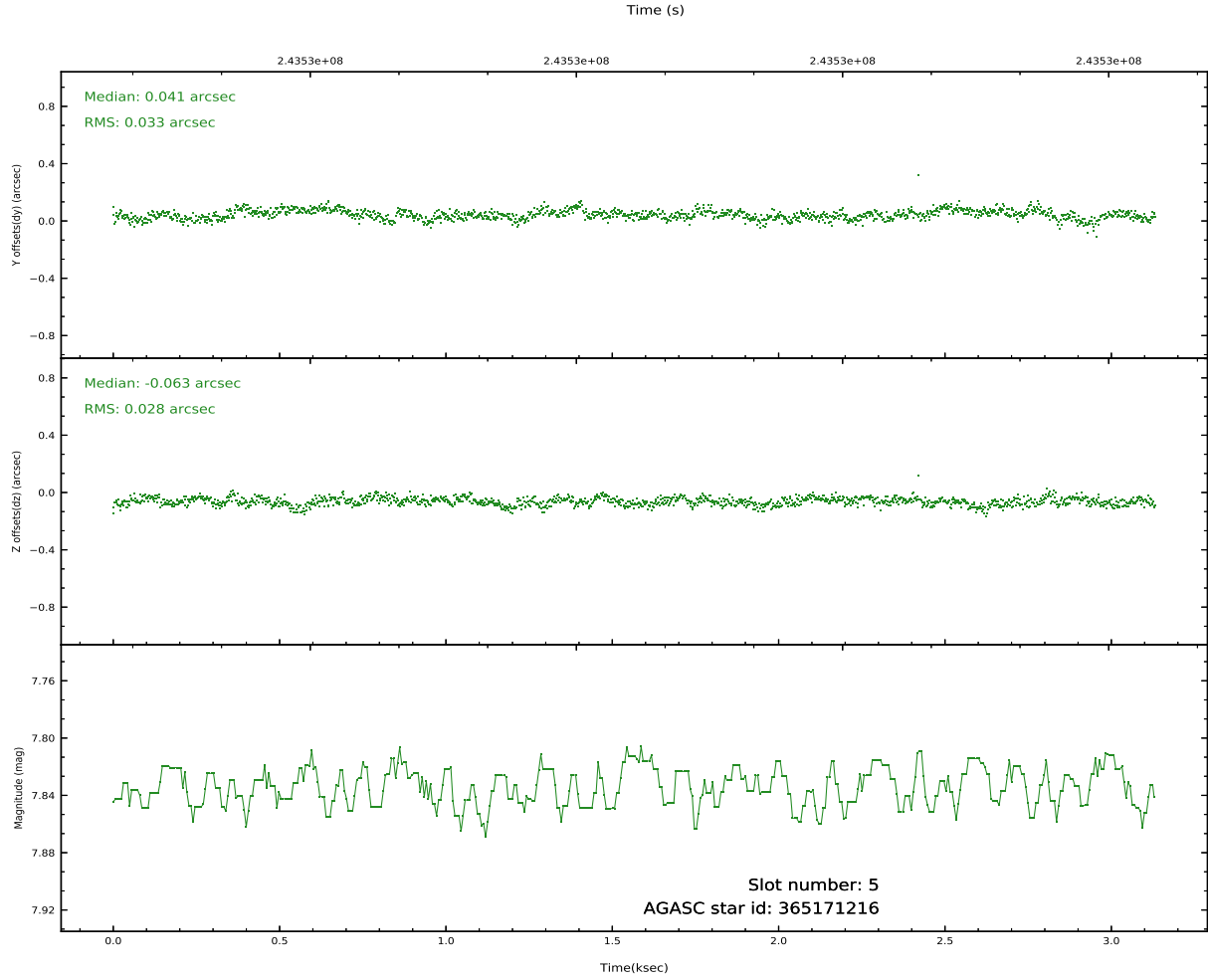
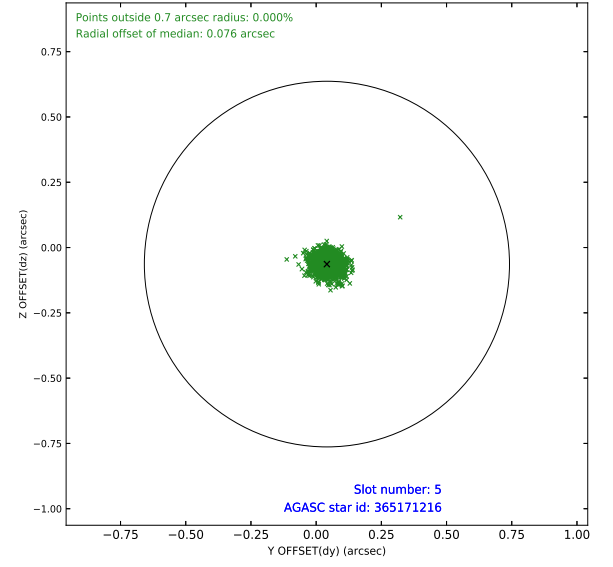
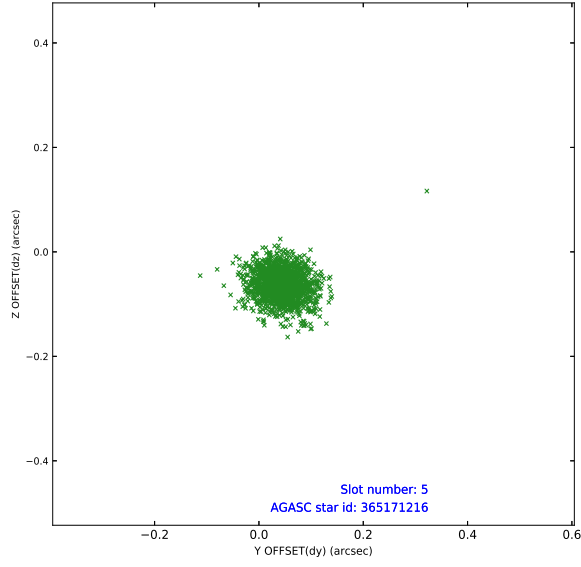
2.4.1 Slot 3



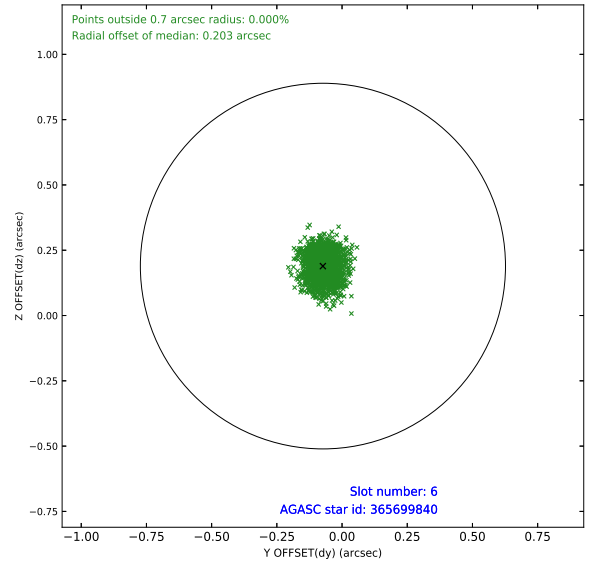
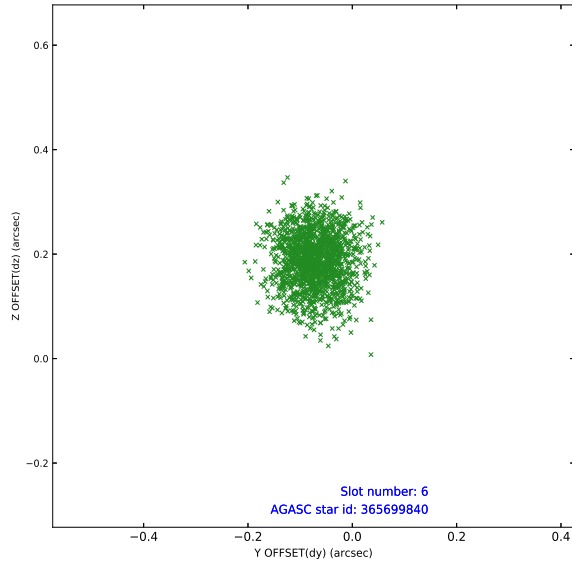
2.4.2 Slot 4



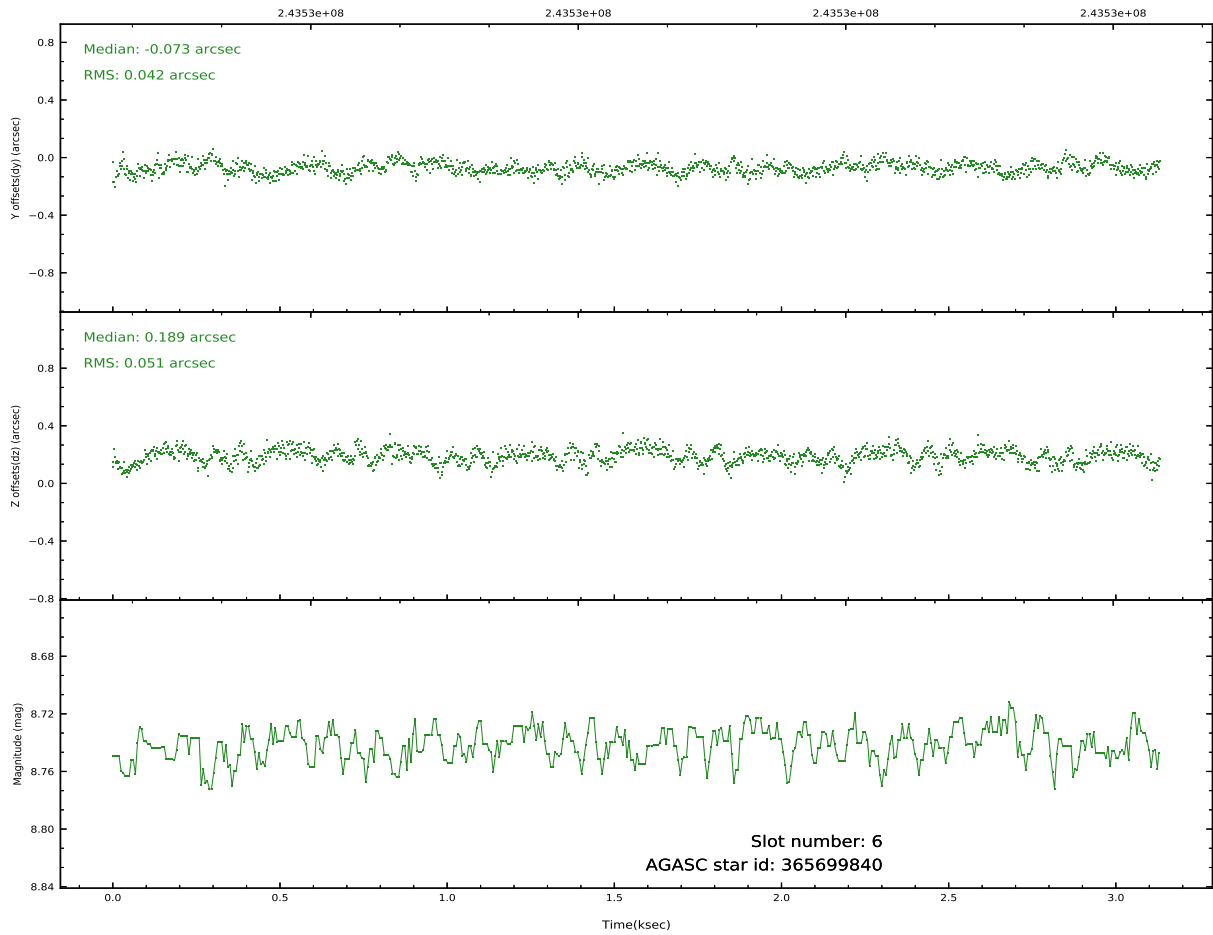
2.4.3 Slot 5



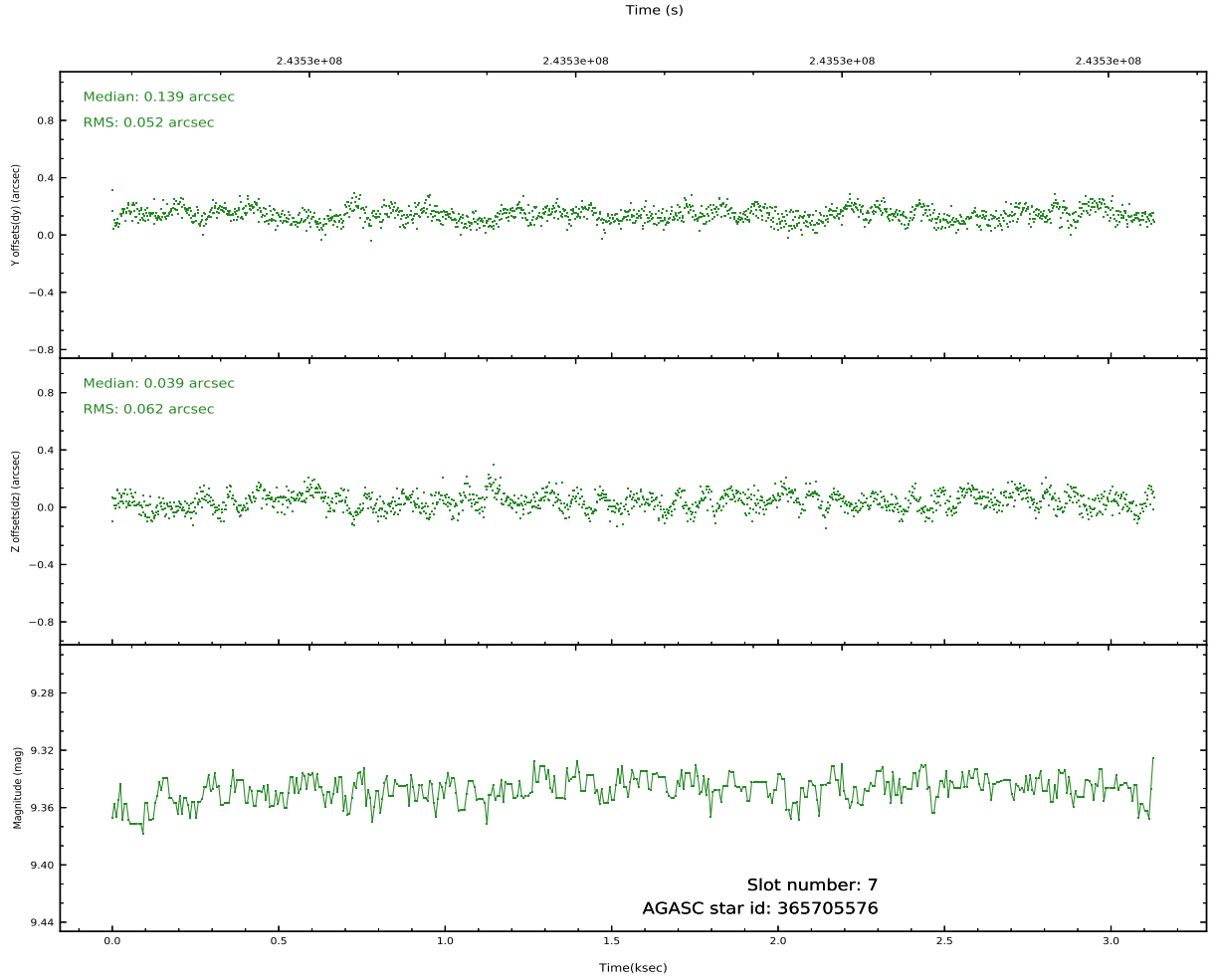
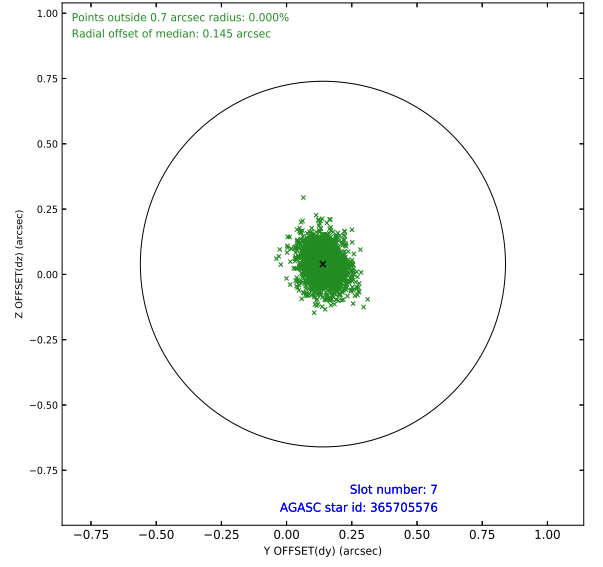
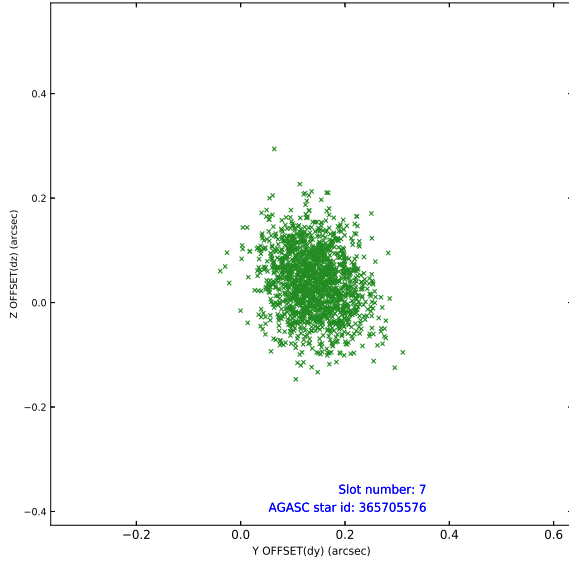
2.4.4 Slot 6



Time (s)

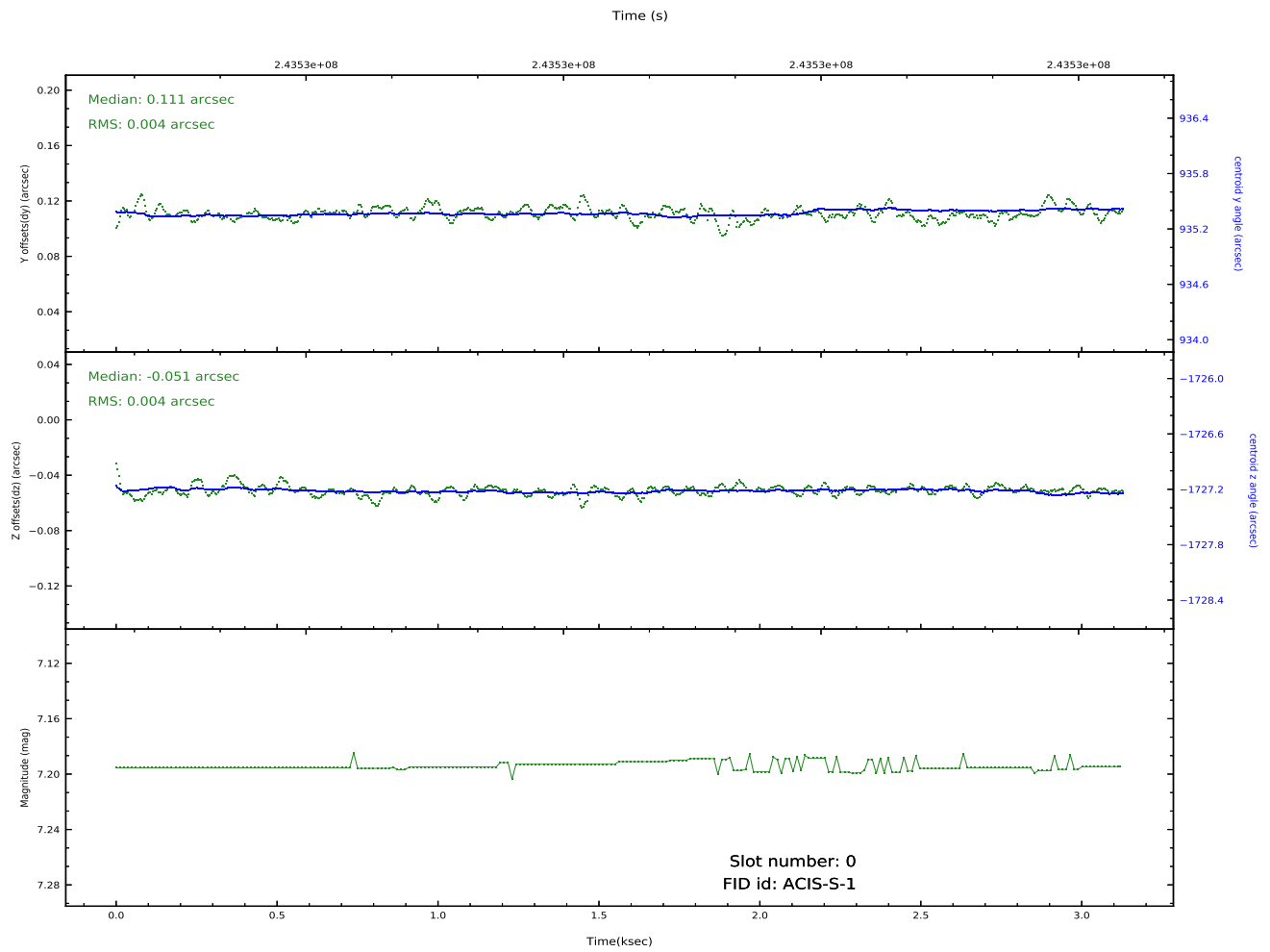
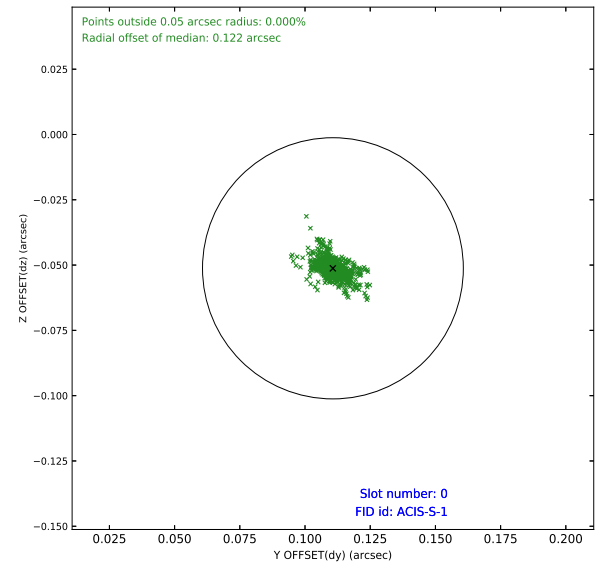
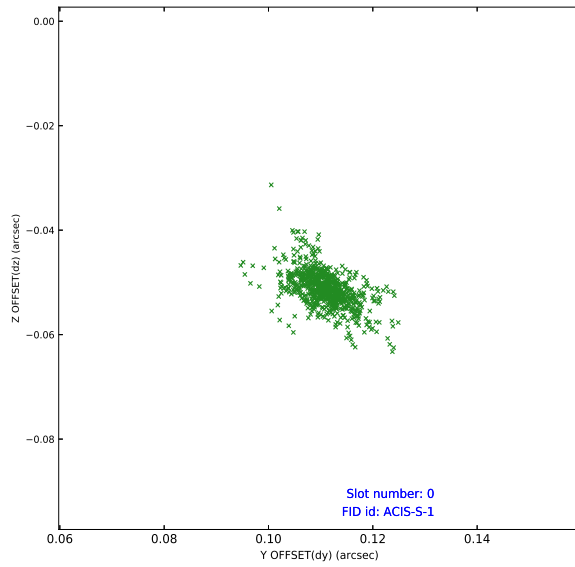


2.4.5 Slot 7

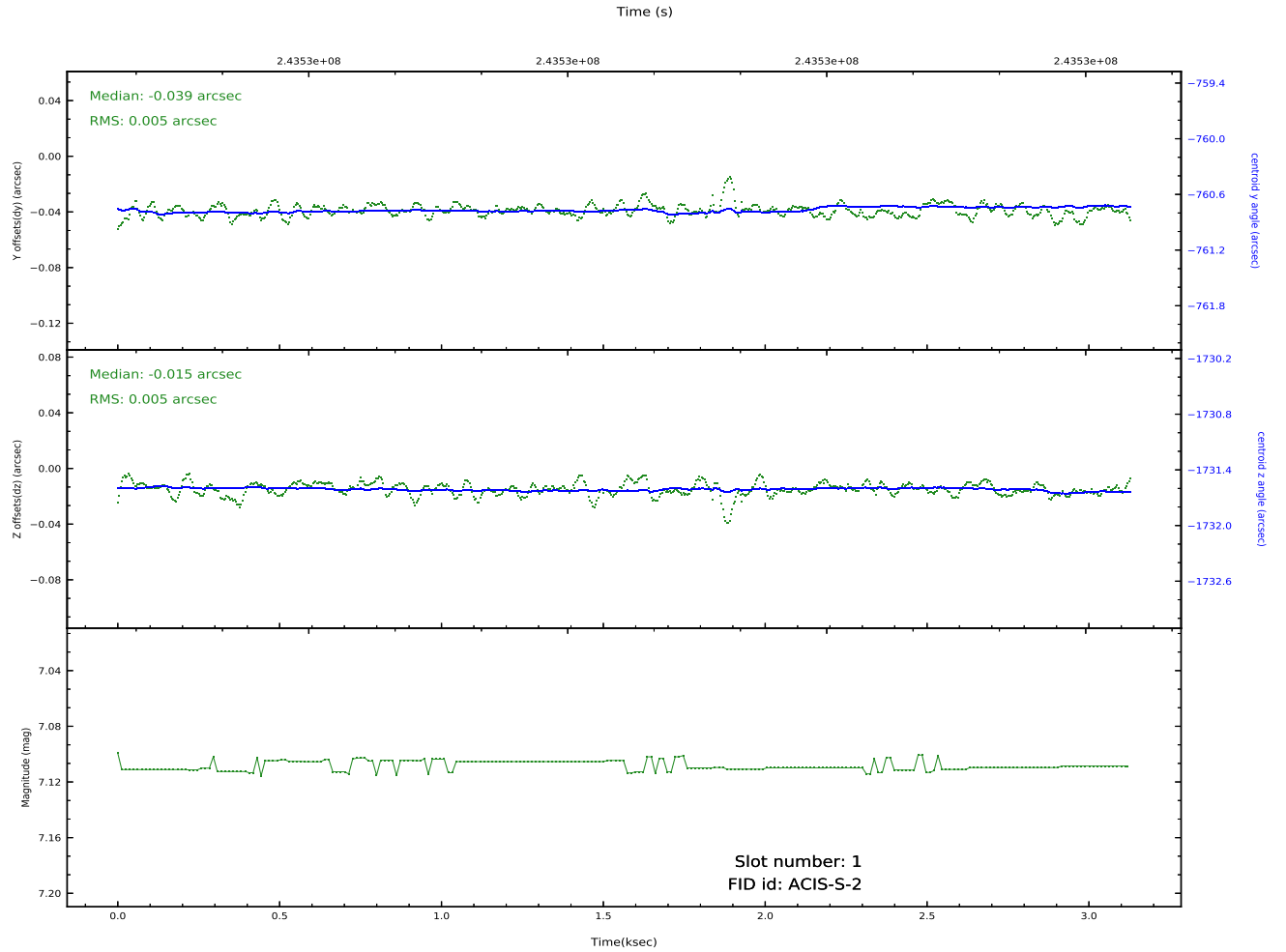
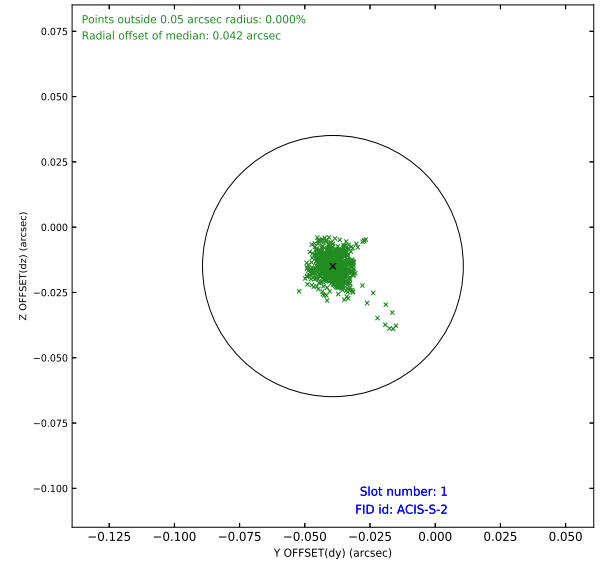
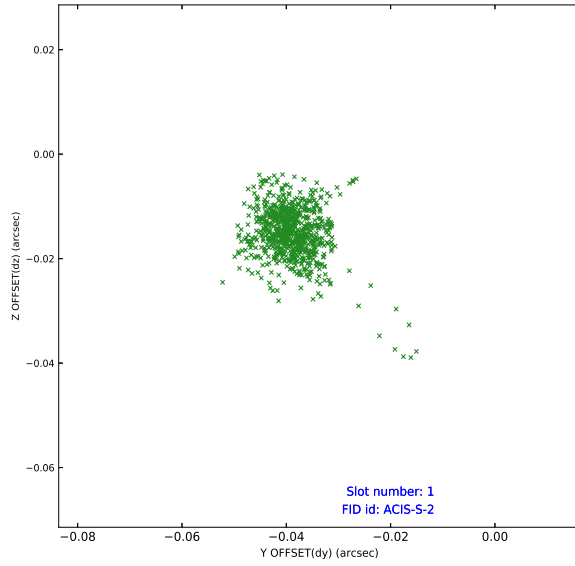


2.5 FID Slots

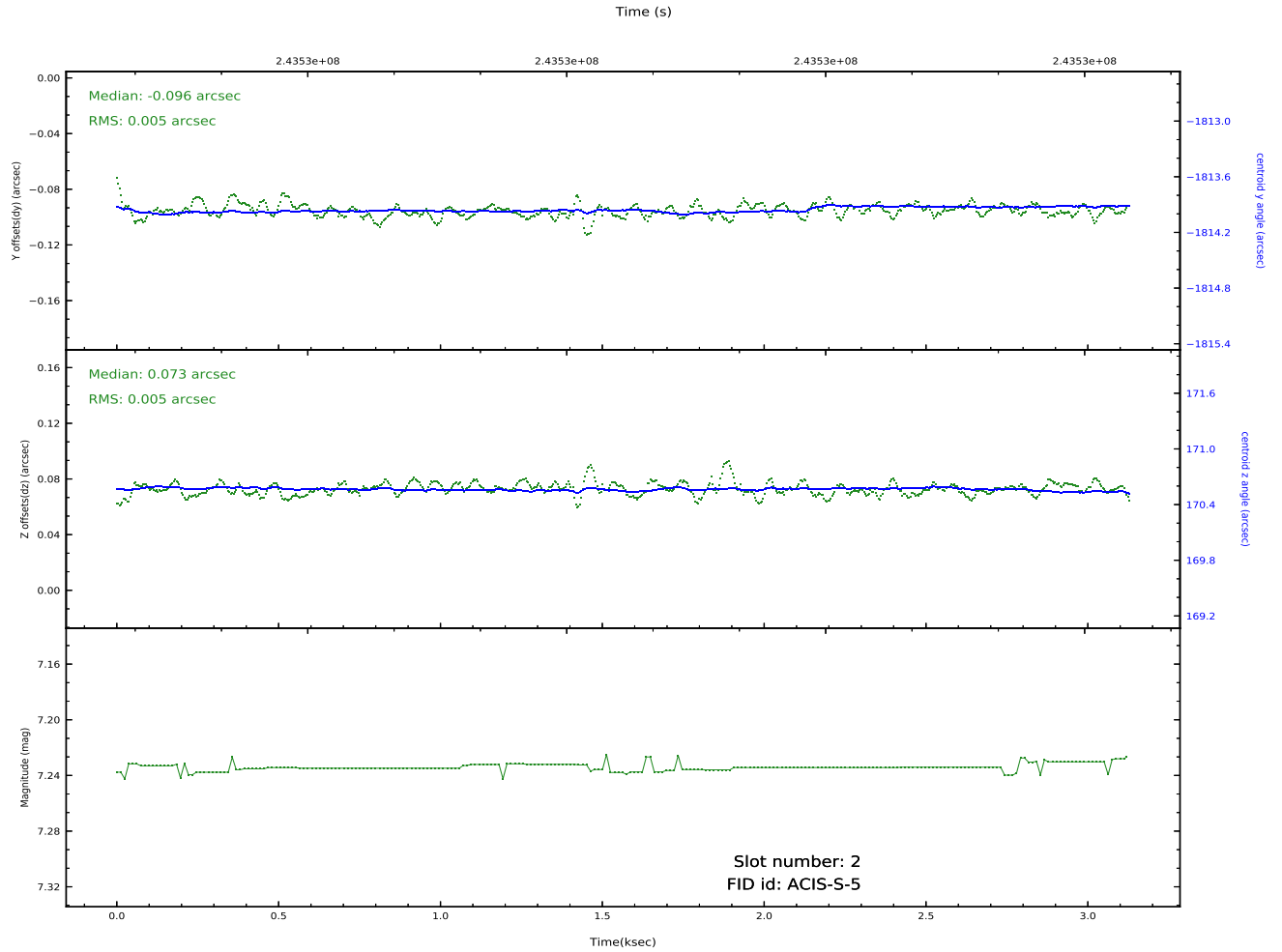
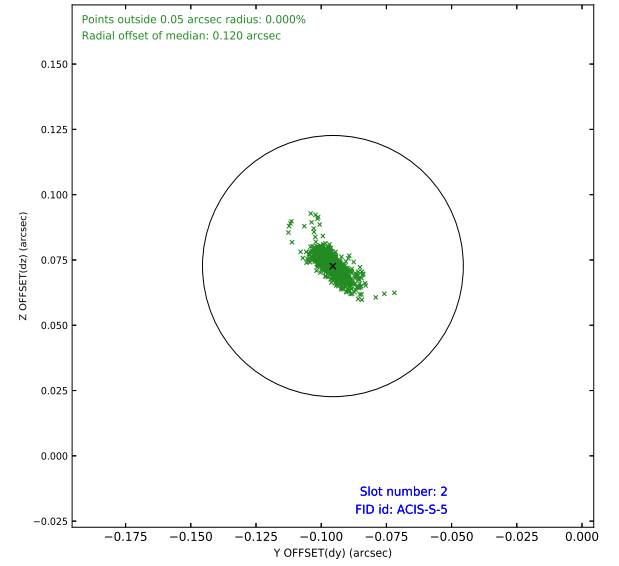
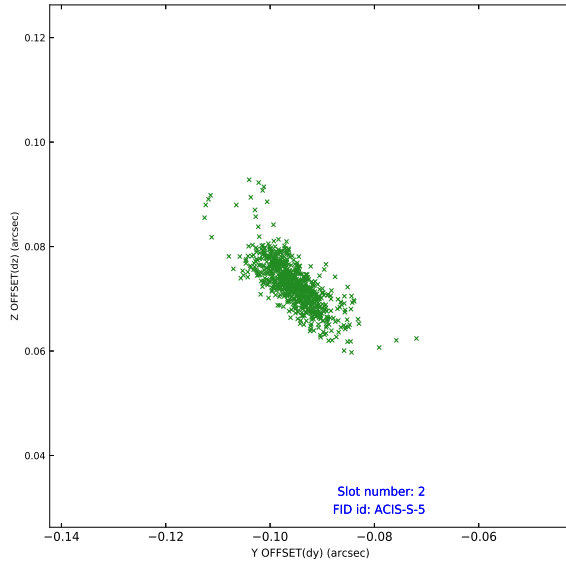
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1316

A.2 Comments

As a consequence of the DEA-A shutdown anomaly on Sep 15th (DOY258), the reported value of the ACIS FP temperature was ~1.3 degrees warmer than the actual temperature. The value for FP temperature reported in the headers of the Level 2 event file and the Mission Timeline files ARE INCORRECT by this amount for this processing. However, the temperature is corrected in the processing in order to obtain the correct temperature for the CTI correction. So the calibrated data are correct.

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Joint proposal with NRAO.