

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20370 - L2 Version 2
Chandra X-Ray Center

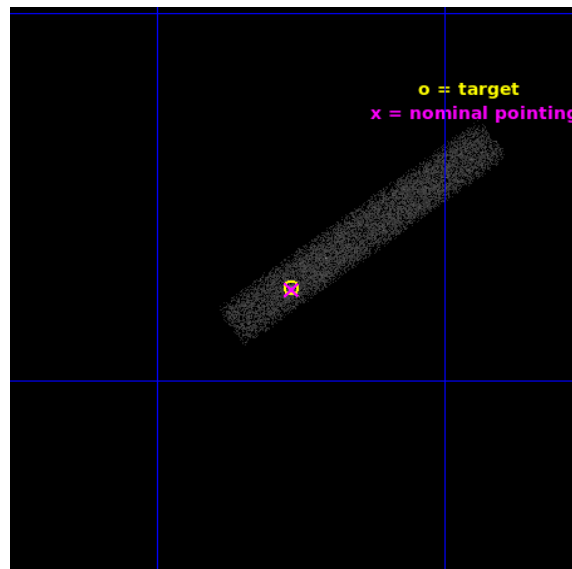
L2 Processing Date : Oct 28 2020

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1 Front

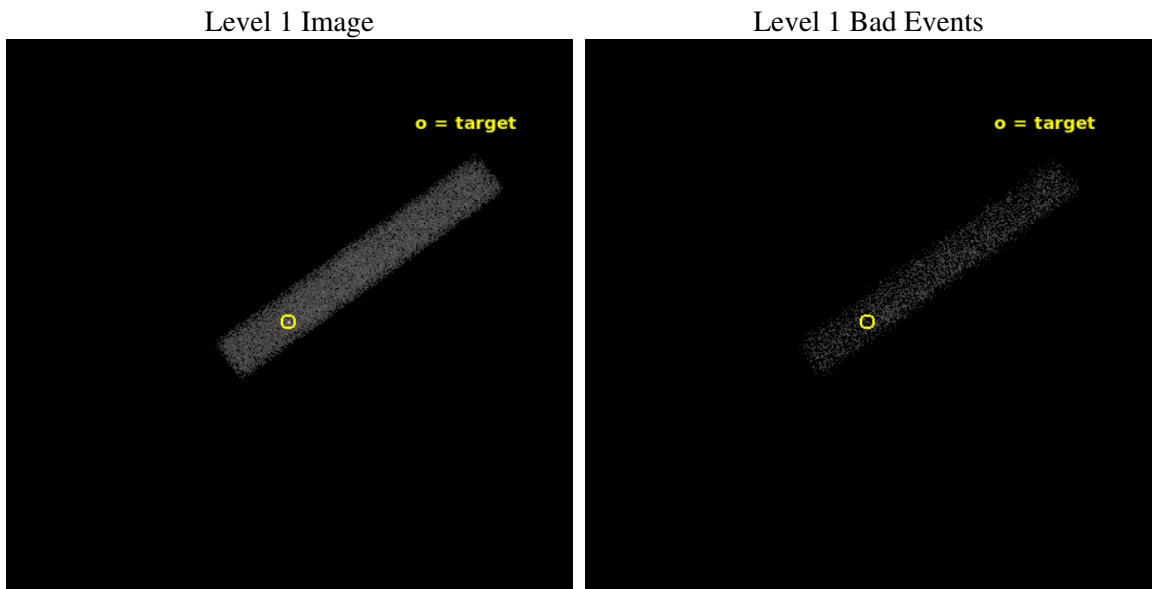
seq_num	703475	Sequence number
obs_id	20370	Observation id
title	Catching a Changing Look Quasar as it undergoes significant changes in accretion rate	Proposal title
observer	Mirko Krumpe	Principal investigator
object	Mrk1018	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	31.566667	Observer's specified target RA [deg]
dec_targ	-0.291389	Observer's specified target Dec [deg]
ra_nom	31.56642153303	Nominal RA [deg]
dec_nom	-0.29225089491247	Nominal Dec [deg]
roll_nom	323.16306397641	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20068.798803687	Sum of GTIs [s]
livetime	18201.341196887	Livetime [s]
ontime7	20068.798803687	Sum of GTIs [s]
l2events	15152	Number of level 2 events



2 OBI

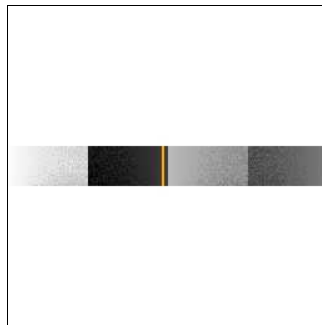
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	20068.798803687	Sum of GTIs [s]
caldbver	4.9.3	 	ontime7	20068.798803687	Sum of GTIs [s]
date	2020-10-28T03:43:33	Date and time of file creation	l1events	29215	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

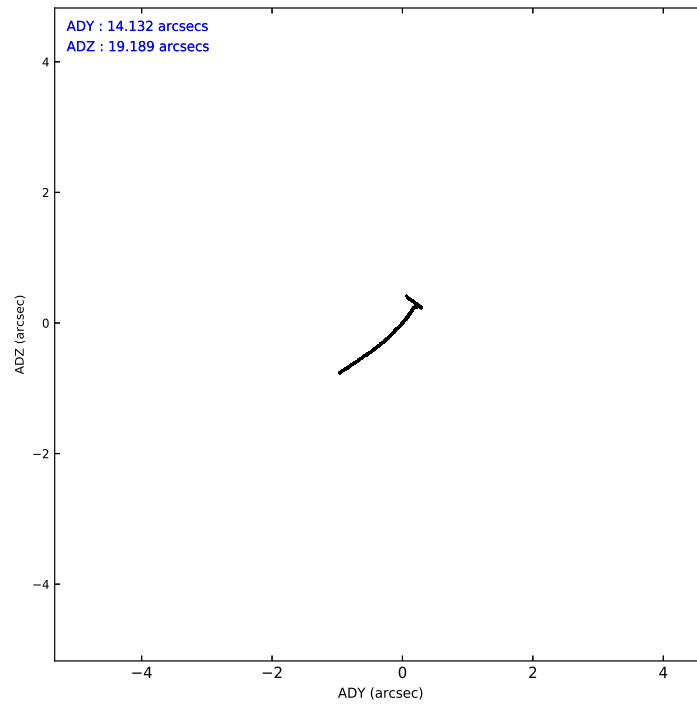
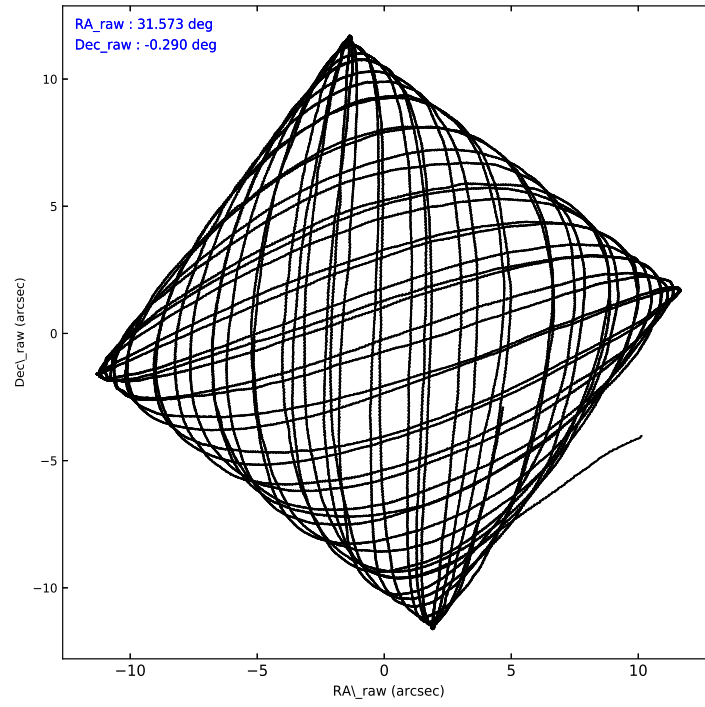
	ccd 7
level 1 events	29215
rejected events	13492
rejected %	46%

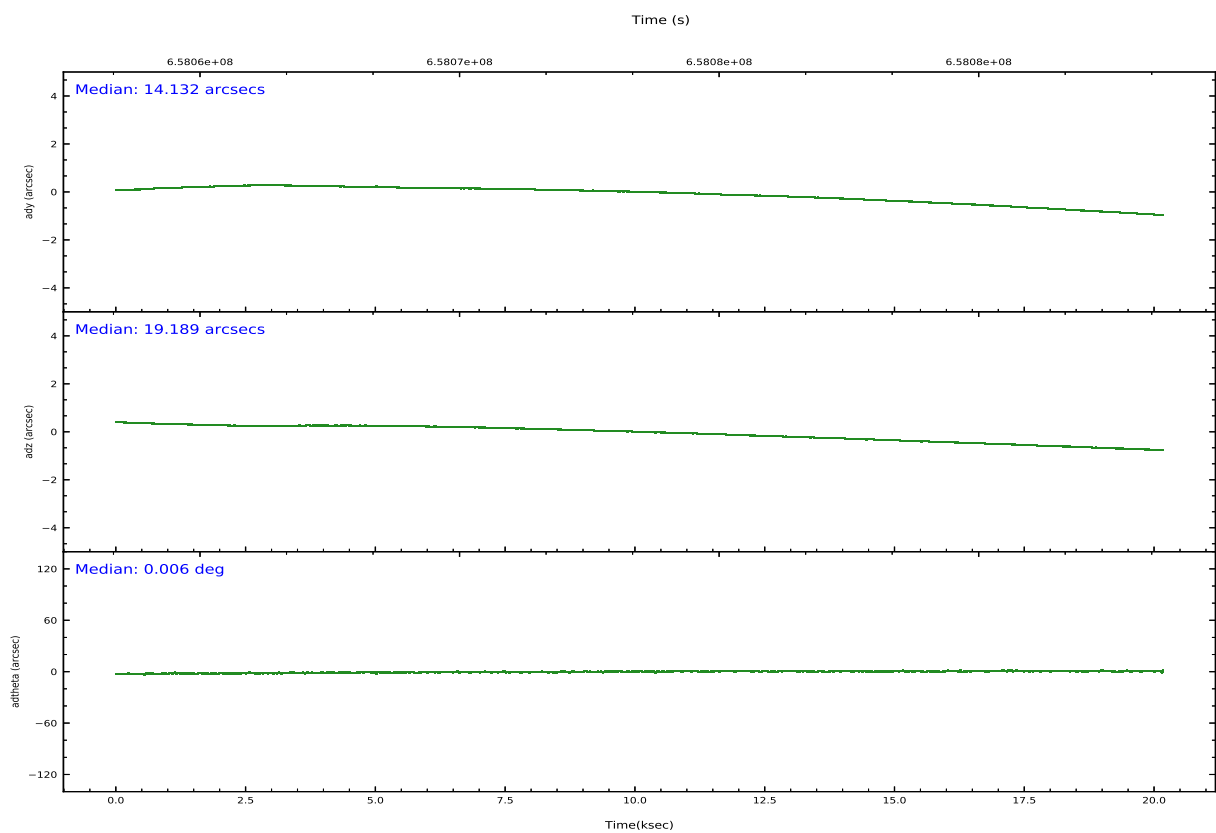
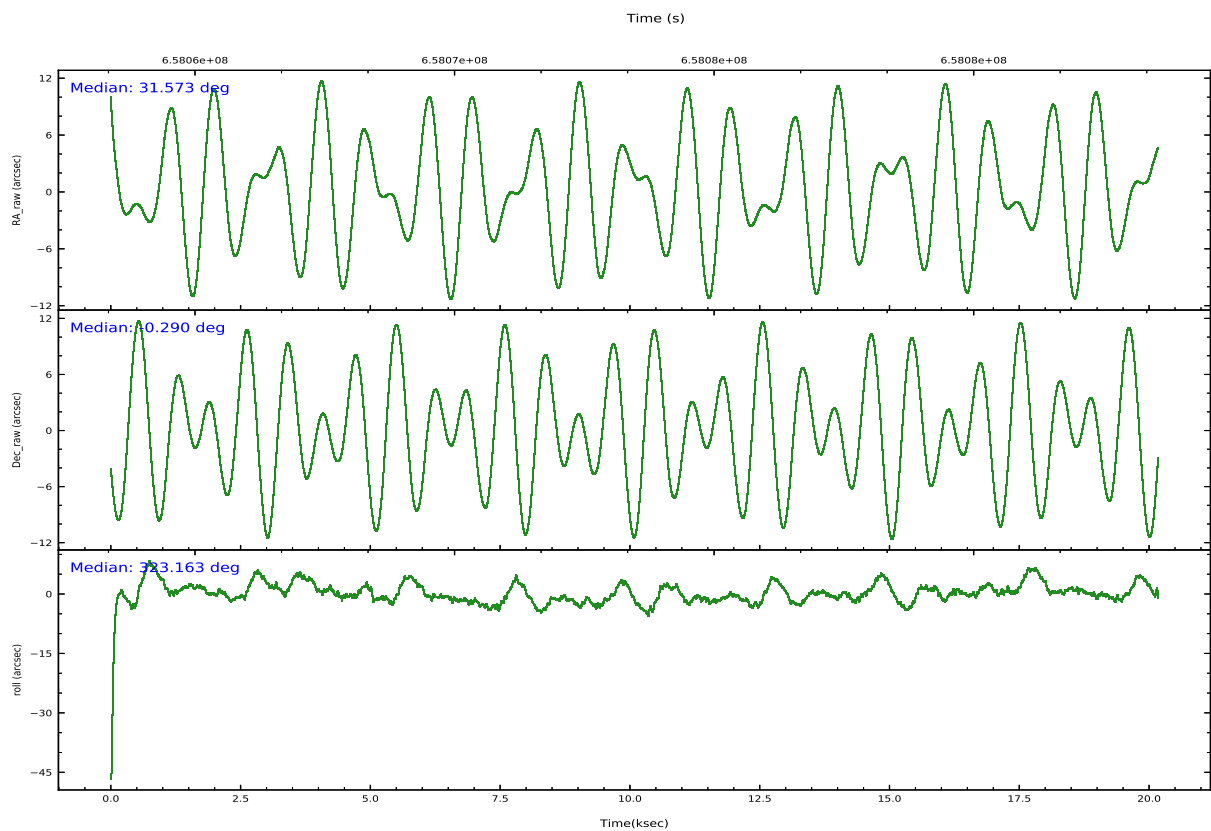
	ccd 7
grade 0 events	2043
	6%
grade 1 events	39
	0%
grade 2 events	3105
	10%
grade 3 events	1979
	6%
grade 4 events	1937
	6%
grade 5 events	2678
	9%
grade 6 events	6660
	22%
grade 7 events	10774
	36%

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	31.545634	31.56642153303	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-0.287353	-0.29225089491247	Subarray start row	449	449
[deg] Pointing Roll	322.999895	323.16306397641	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)	658063554.184000	658063051.06152			
Observation start date	2018-11-08T11:24:45	2018-11-08T11:17:31			
[s] Observation end time (MET)	658083554.184000	658084165.55027			
Observation end date	2018-11-08T16:58:05	2018-11-08T17:09:25			
Read mode	TIMED	TIMED			

2.3 Aspect



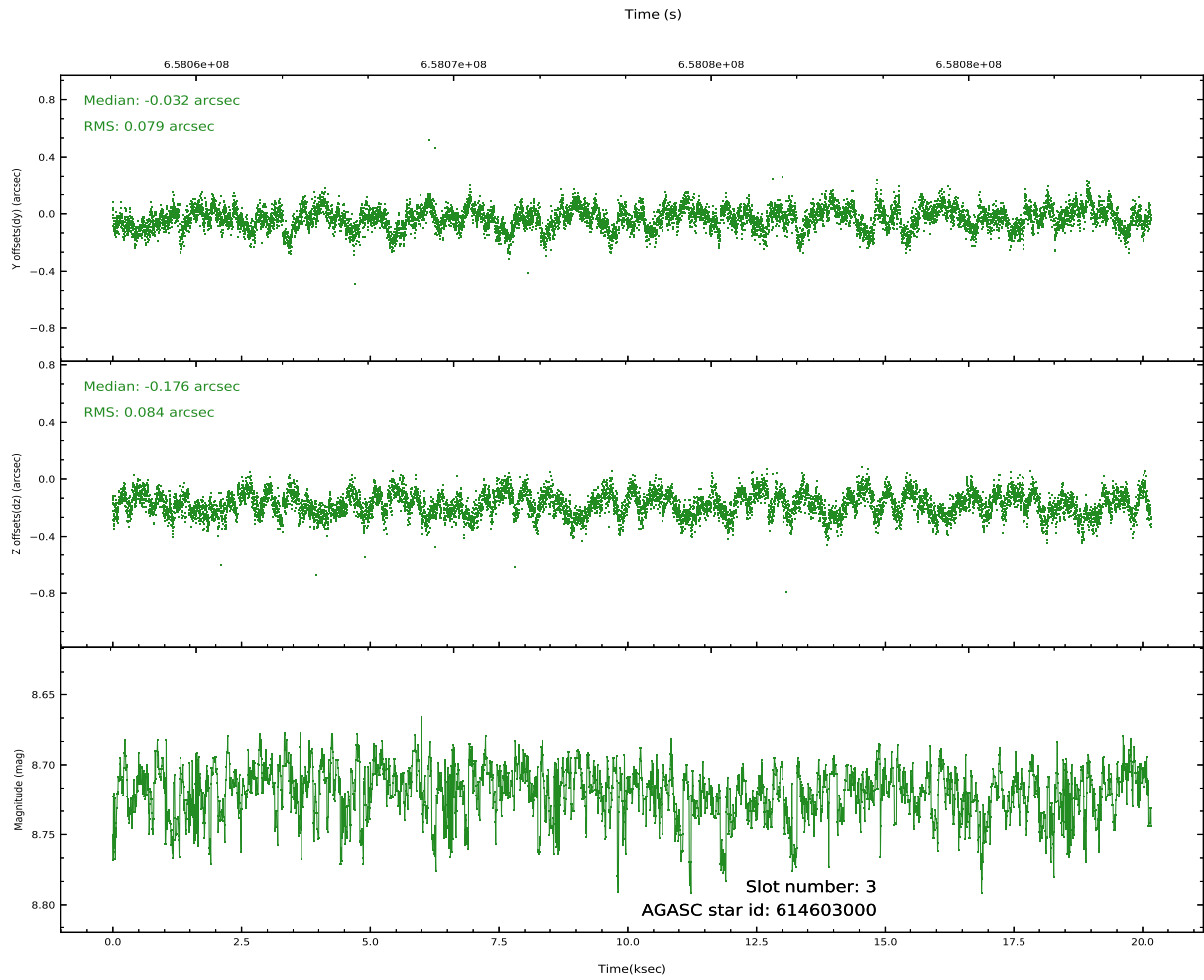
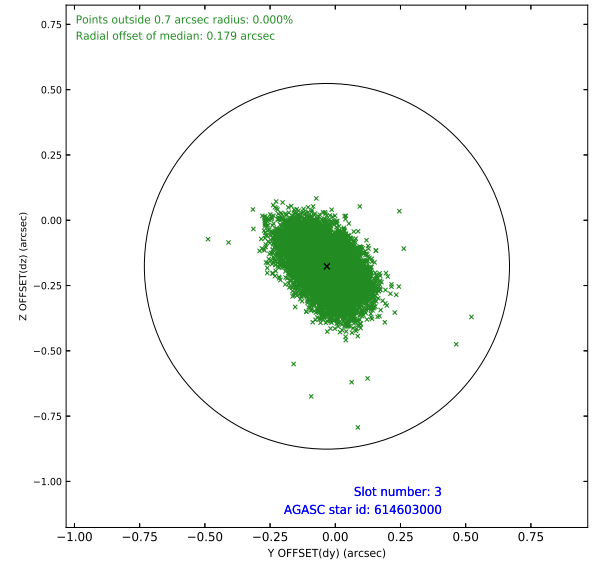
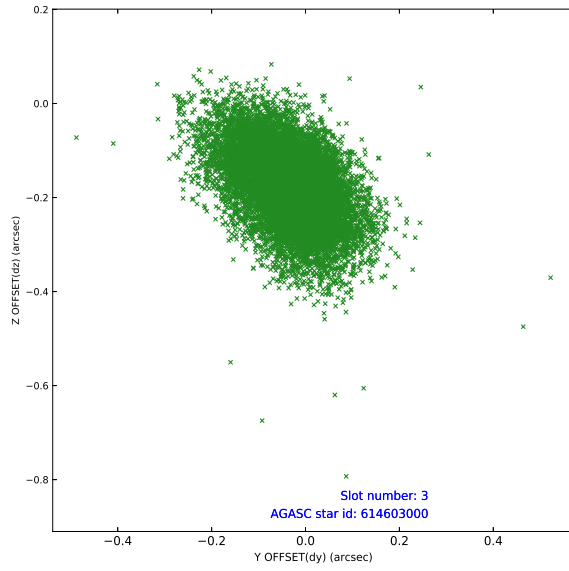


Slot Statistics

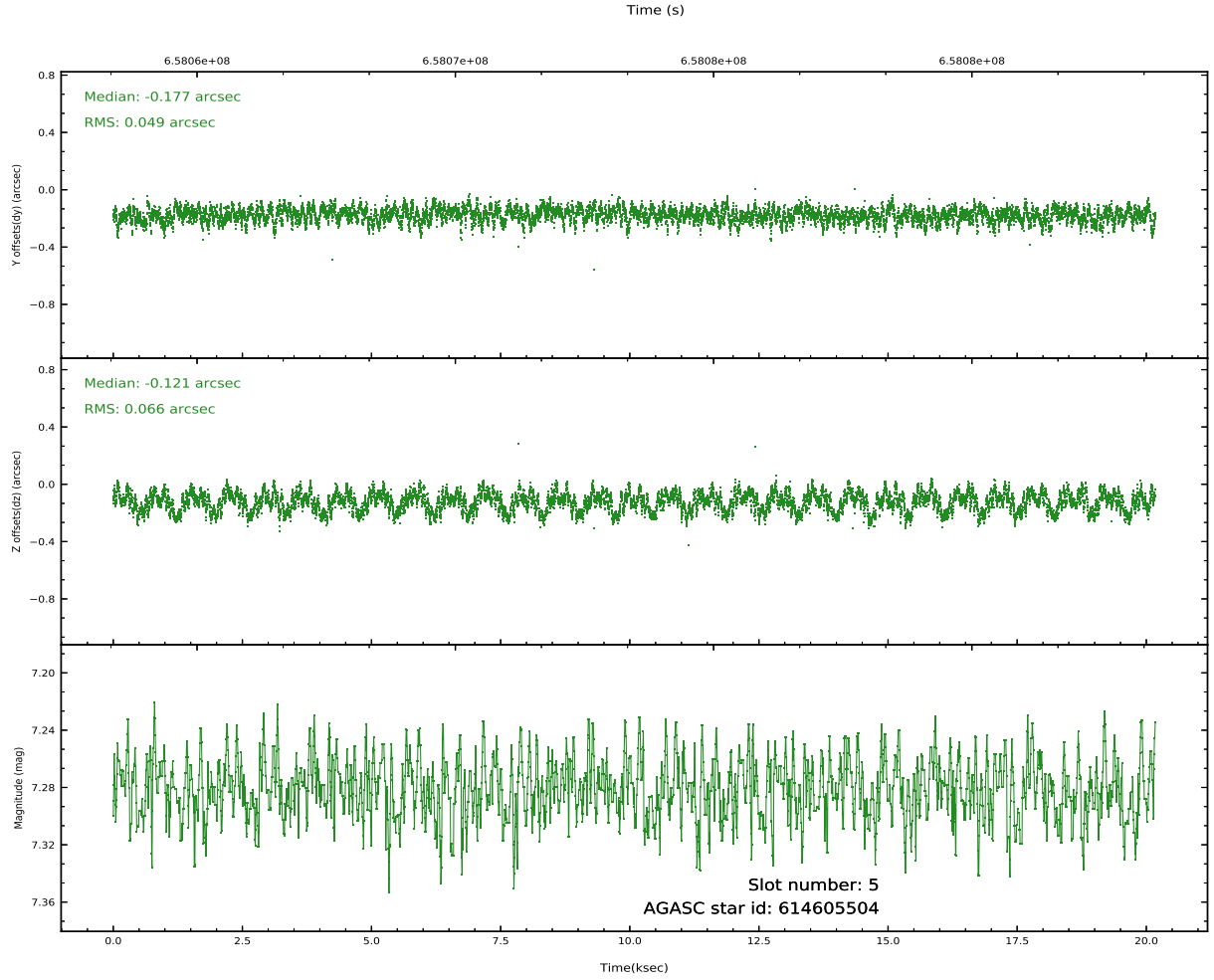
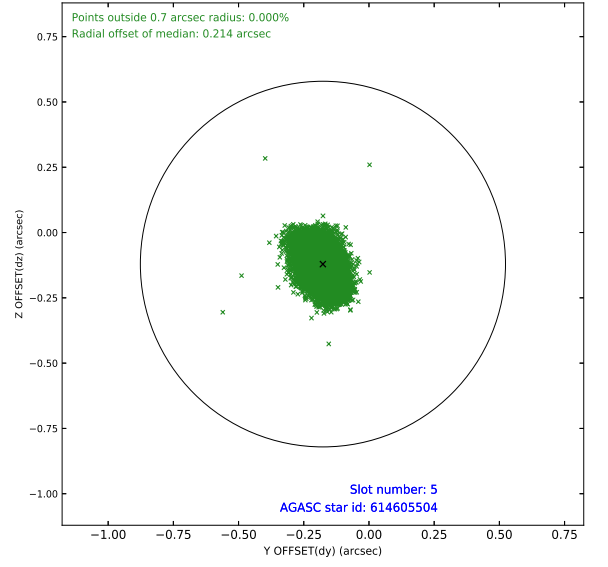
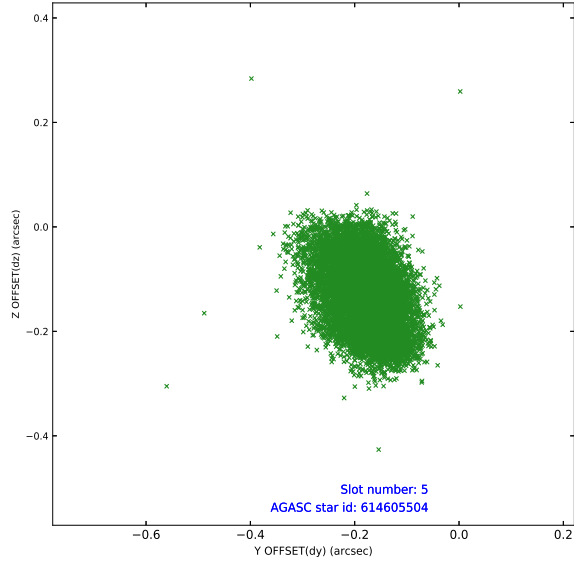
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.03	4921	1.000	0.173	-0.136	0.028	0.049	0.000000	0.000000	-767.07	-1740
1	FID		ACIS-S-4	7.15	4921	1.000	0.182	-0.048	0.011	0.024	0.000000	0.000000	2146.45	167
2	FID		ACIS-S-5	7.13	4921	1.000	-0.389	0.191	0.034	0.047	0.000000	0.000000	-1819.93	162
3	GUIDE	used	614603000	8.72	9836	1.000	-0.032	-0.176	0.121	0.199	31.292832	-0.000879	-1347.09	275
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
5	GUIDE	used	614605504	7.28	9841	1.000	-0.177	-0.121	0.090	0.138	32.113697	-0.419301	1919.12	851
6	GUIDE	used	614606448	6.98	9842	1.000	0.165	0.119	0.084	0.138	31.892805	-0.617418	1713.78	-204
7	GUIDE	used	614603456	8.82	9834	1.000	0.043	0.180	0.119	0.185	30.926579	-0.024024	-2350.07	-583

2.4 Star Slots

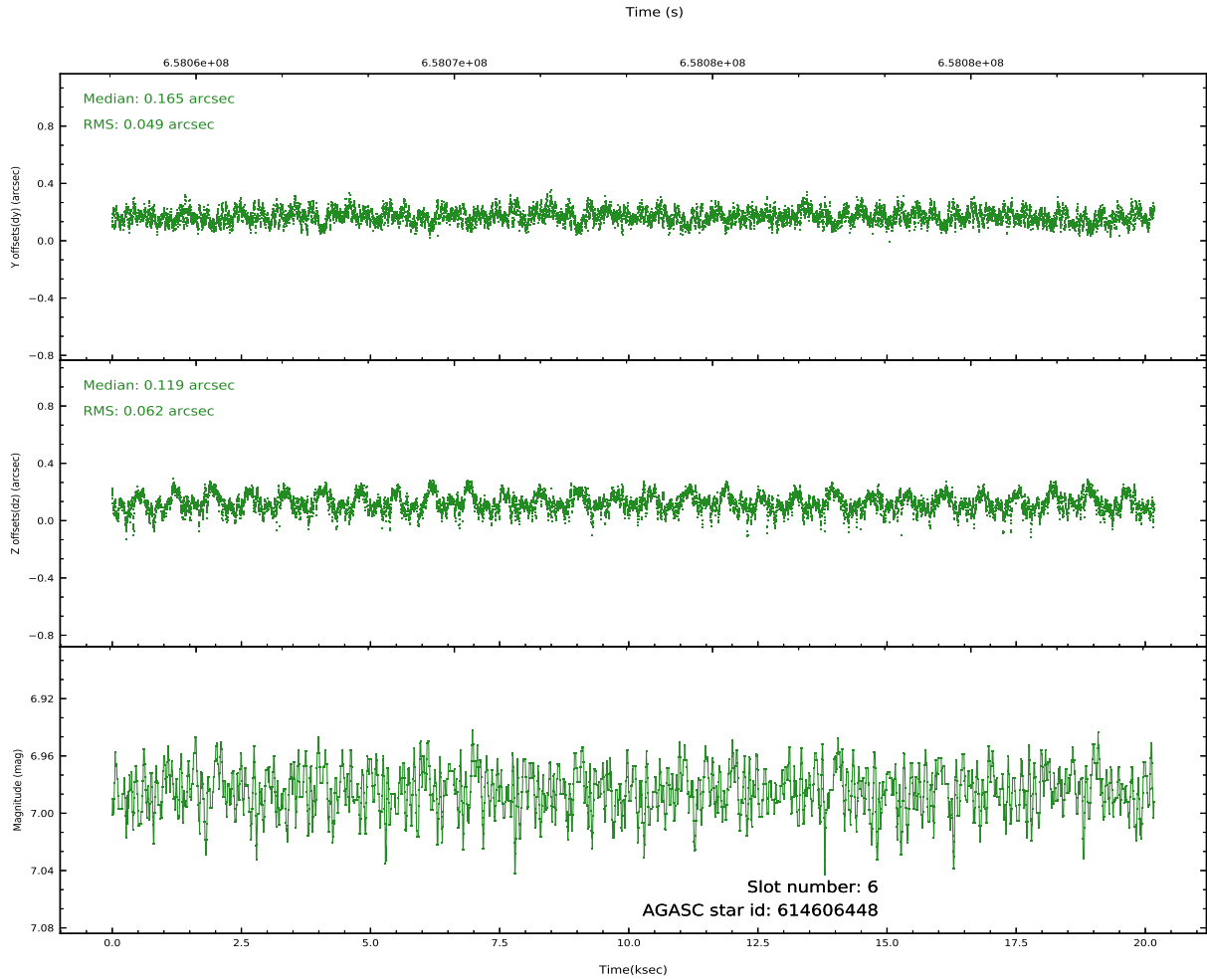
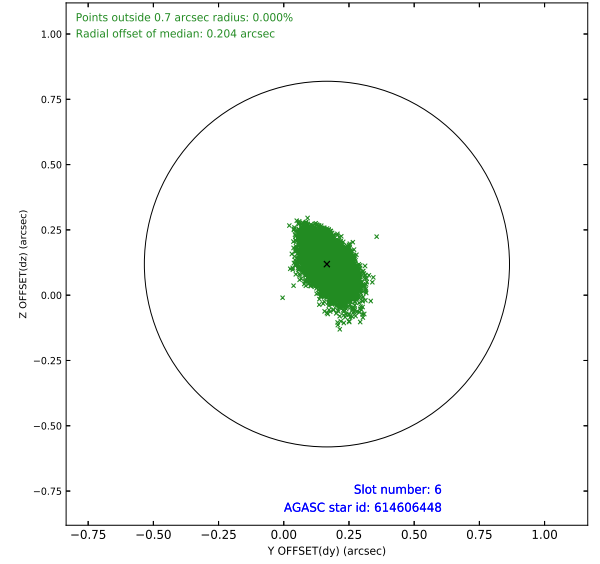
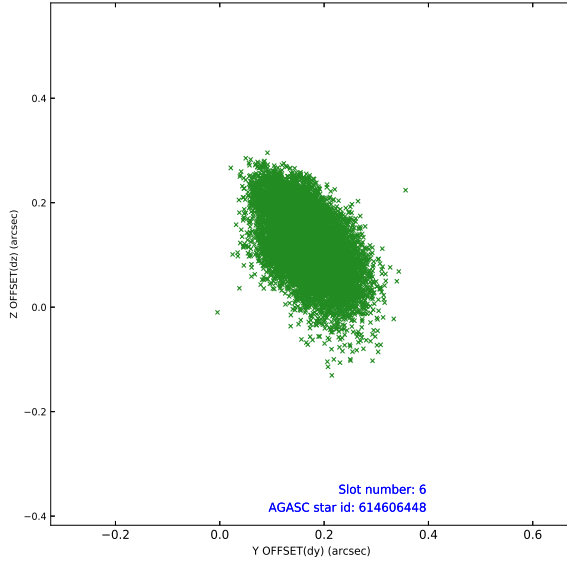
2.4.1 Slot 3



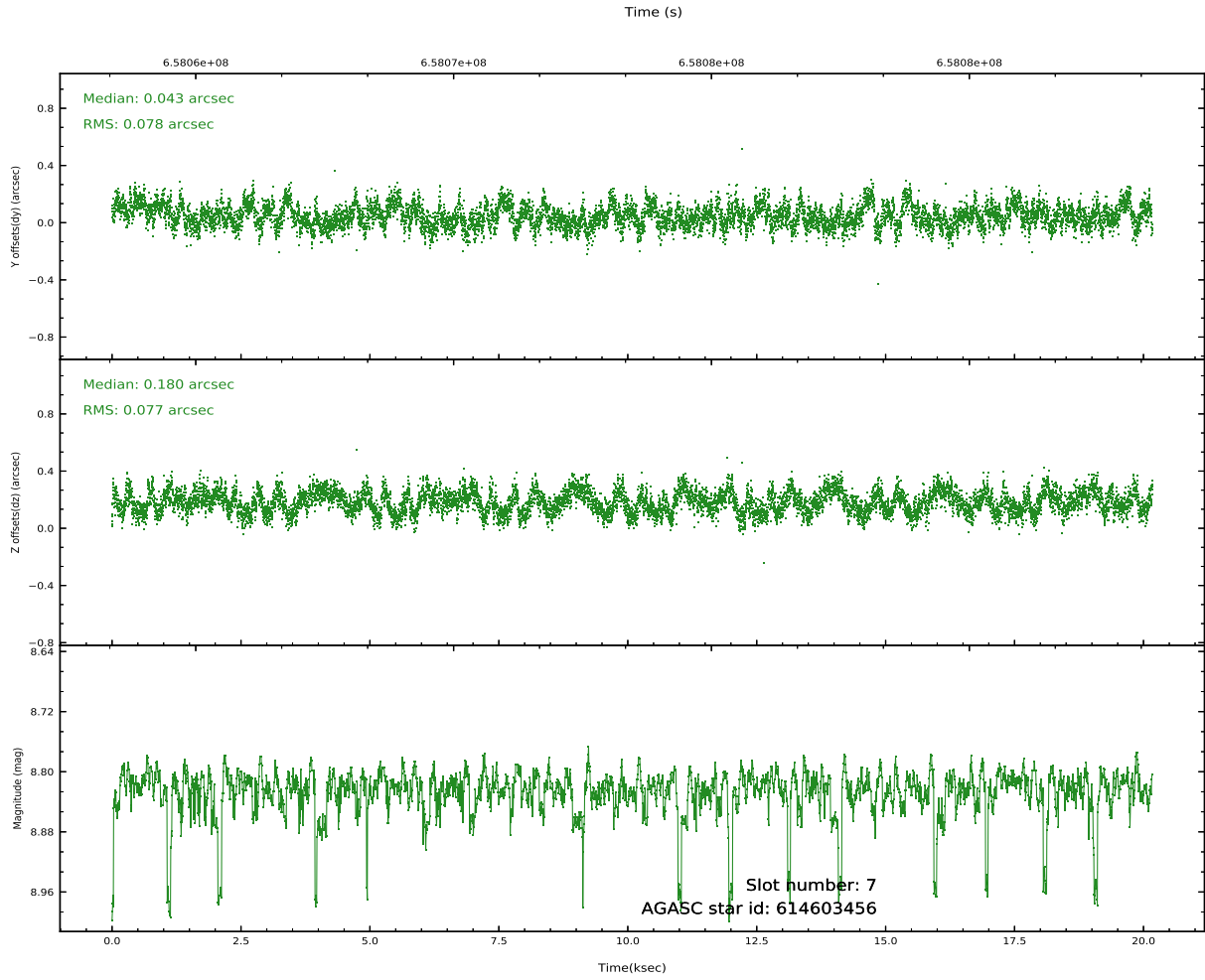
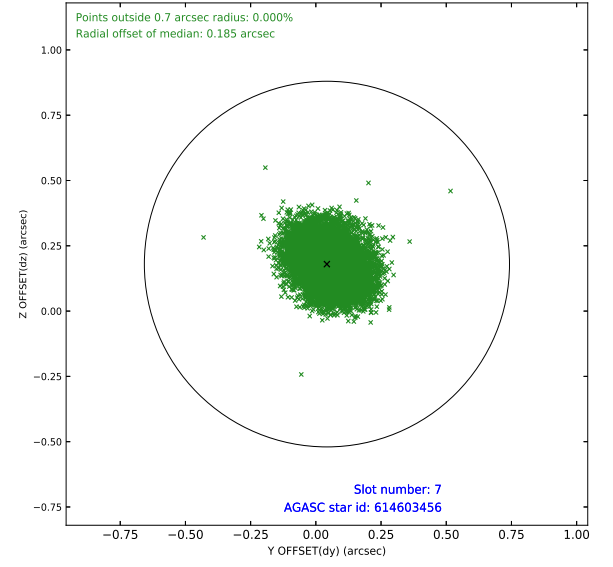
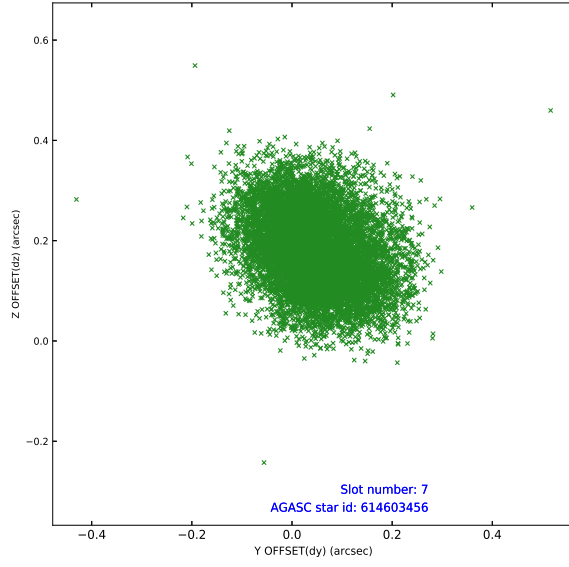
2.4.2 Slot 5



2.4.3 Slot 6

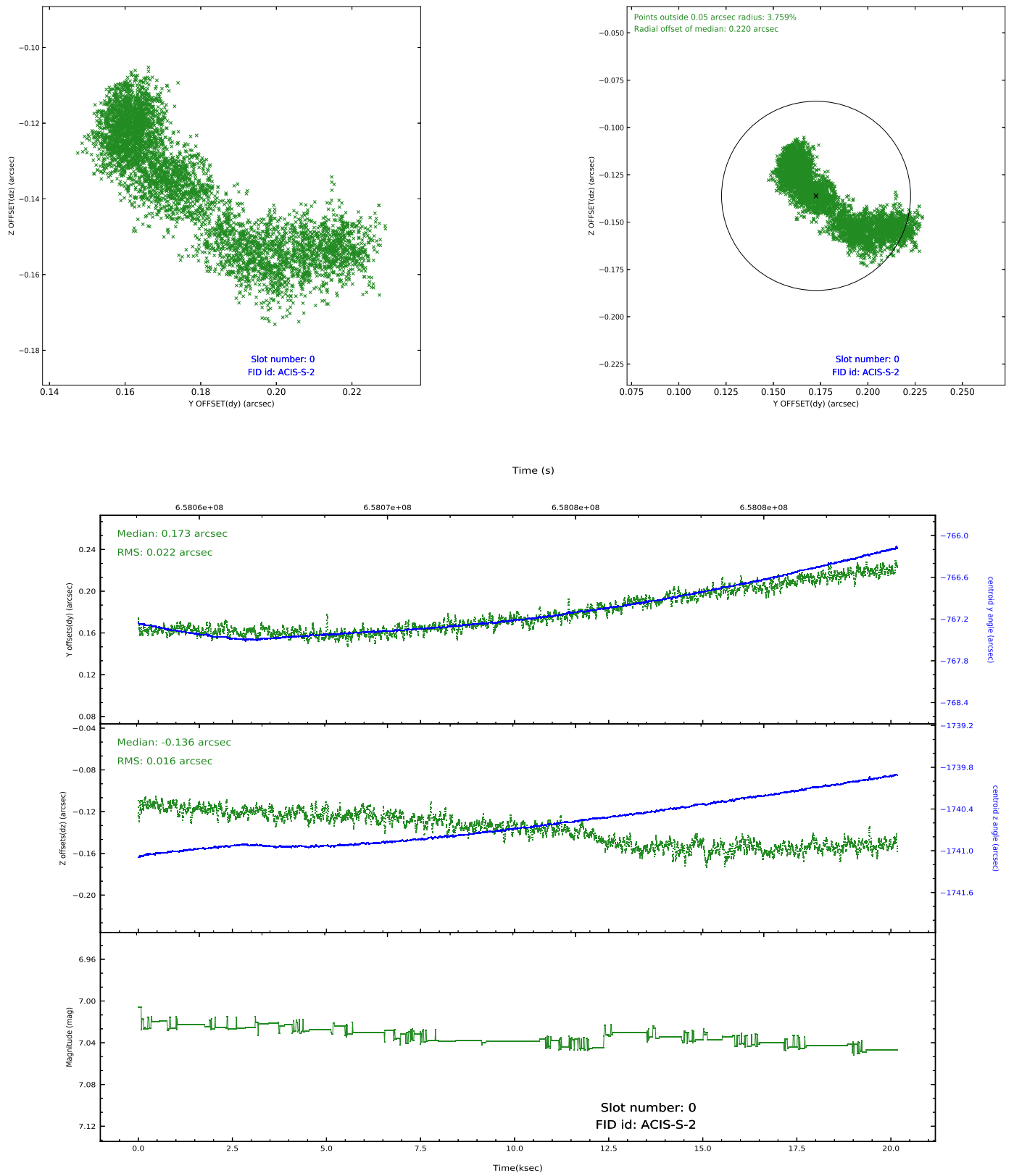


2.4.4 Slot 7

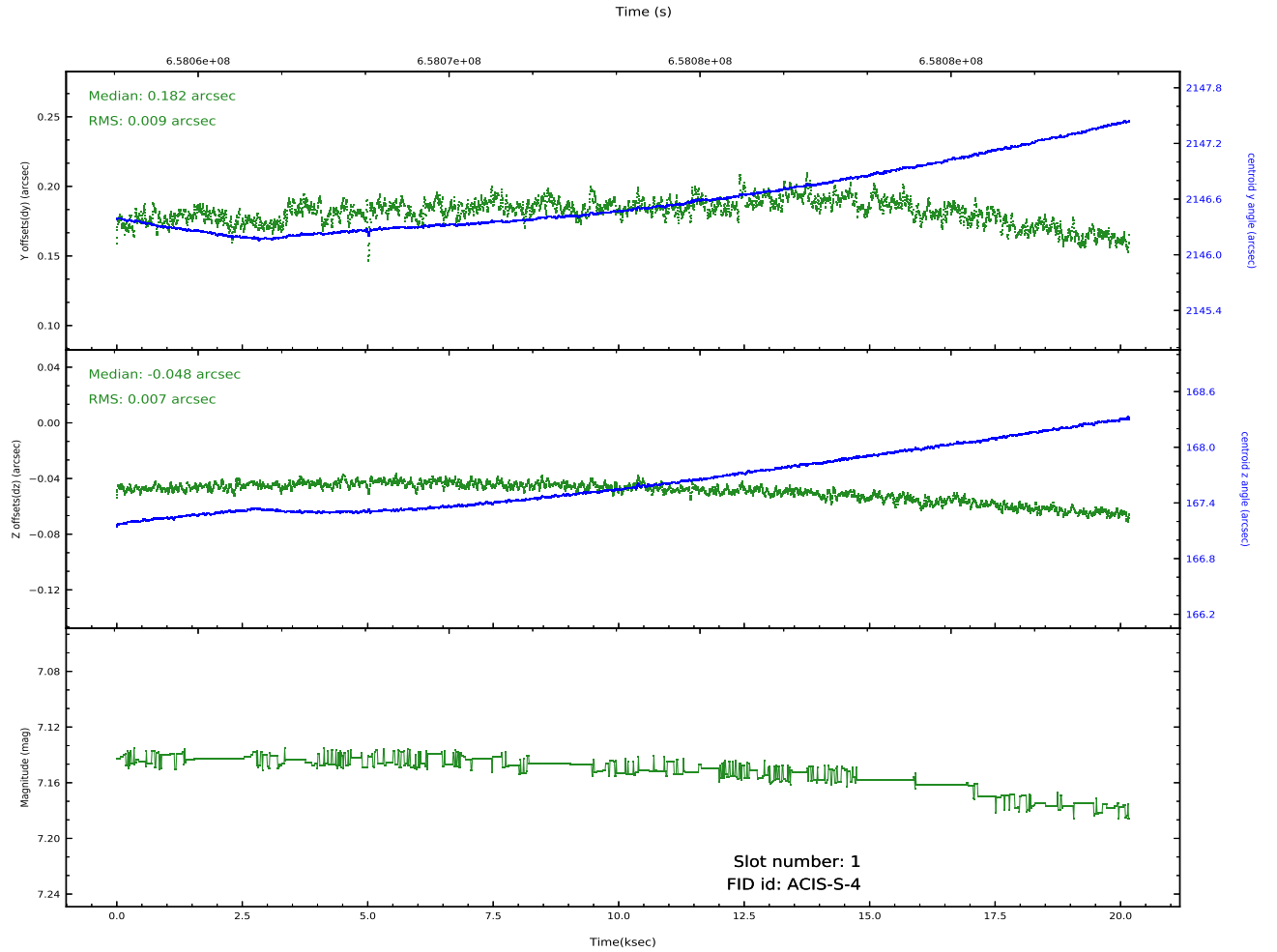
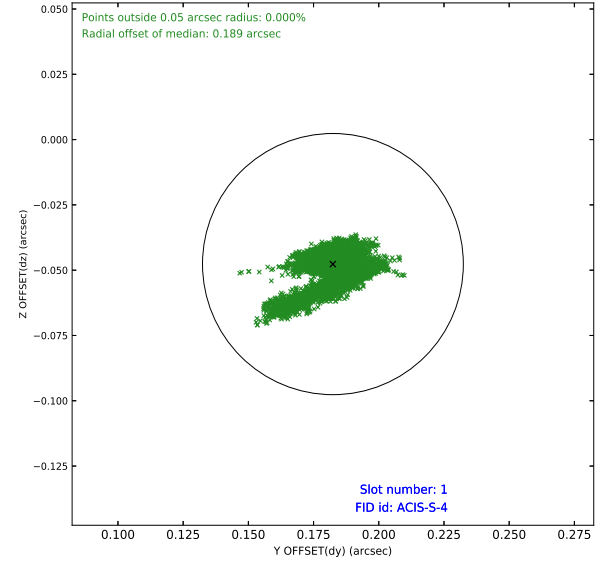
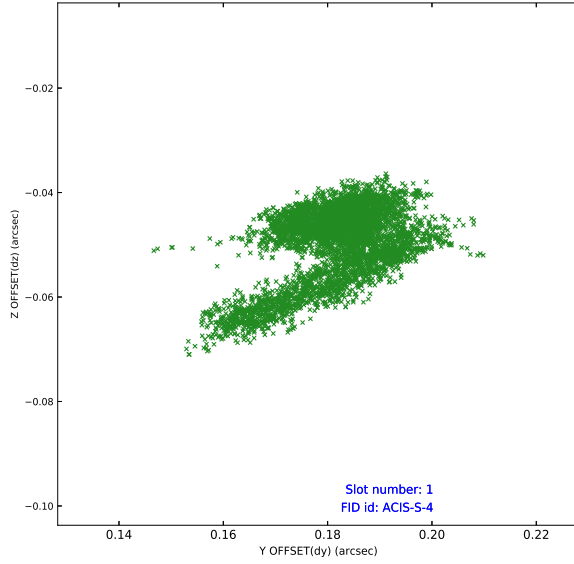


2.5 FID Slots

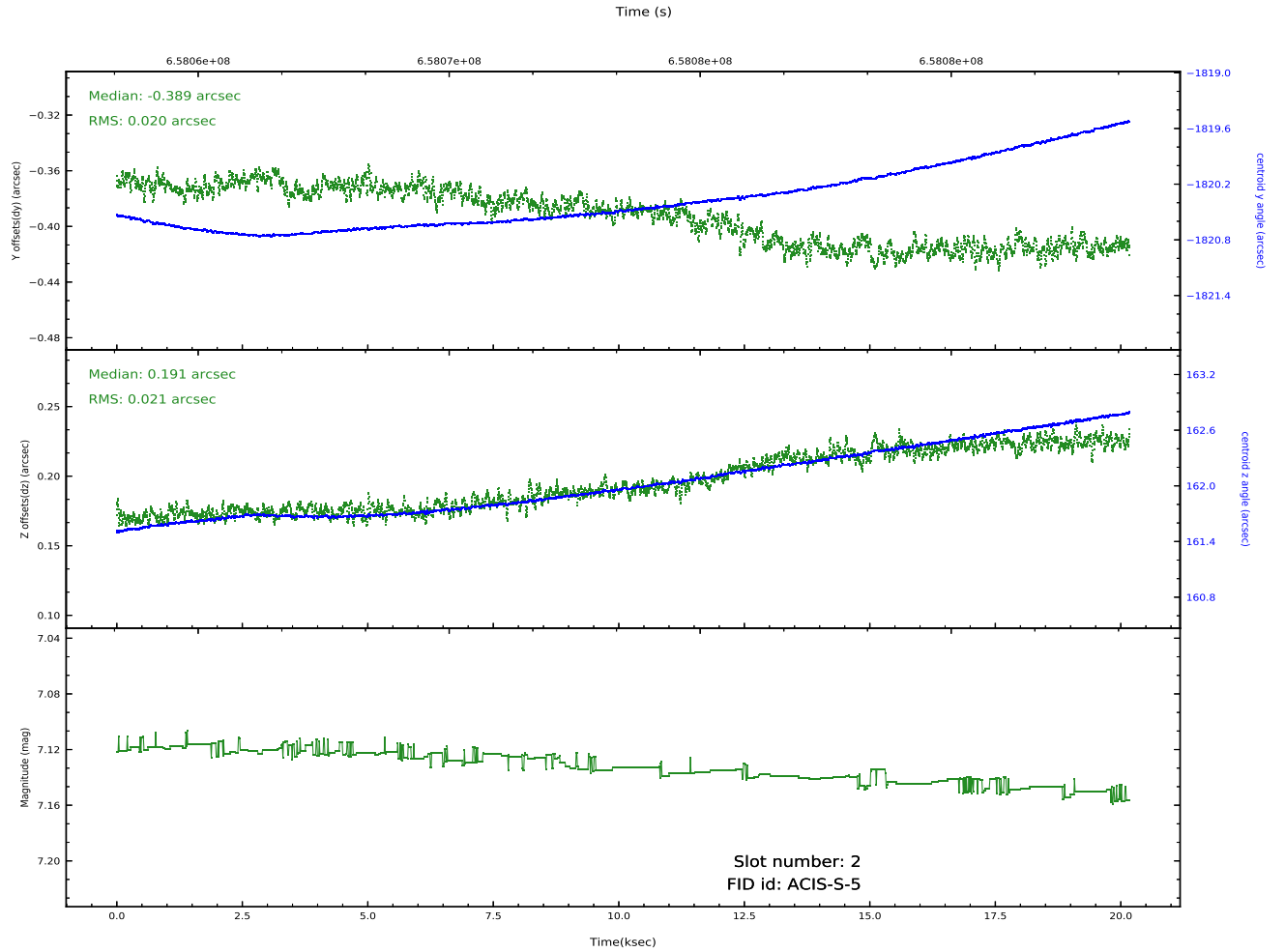
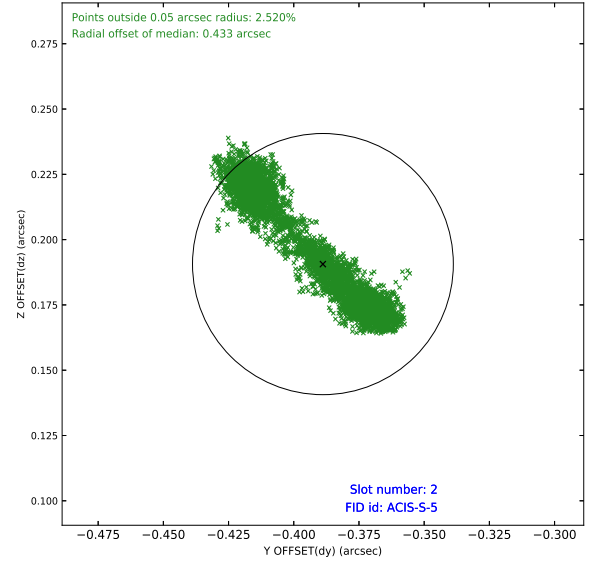
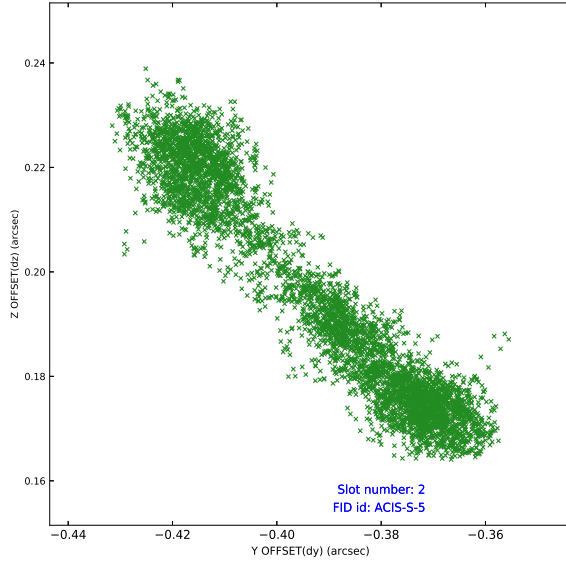
2.5.1 Slot 0



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)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.068798803687

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.