

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20198 - L2 Version 3
Chandra X-Ray Center

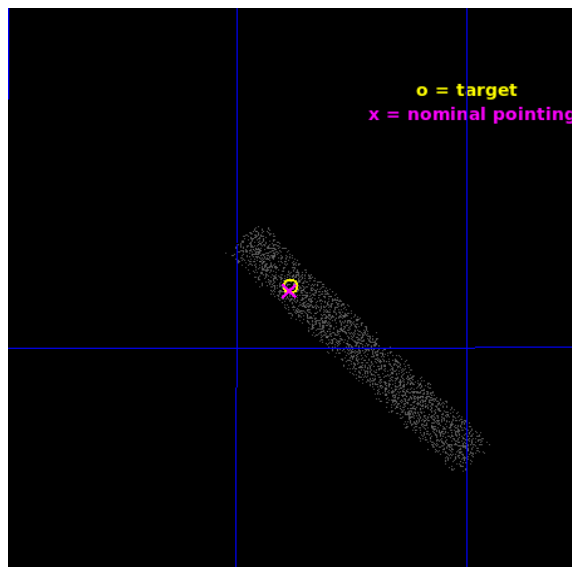
L2 Processing Date : Oct 24 2020

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1 Front

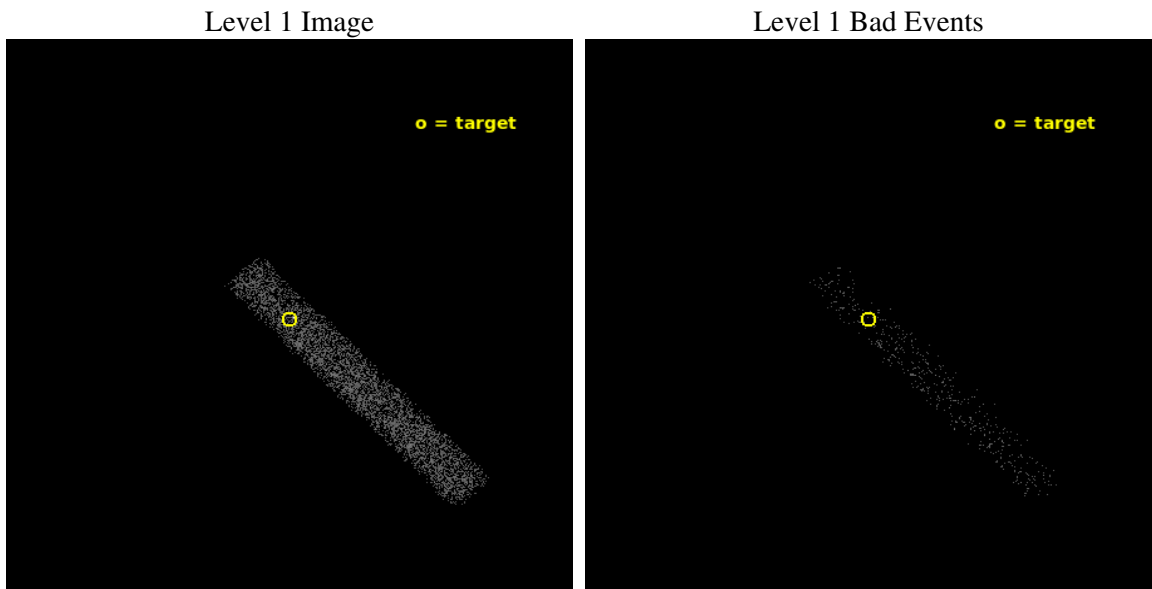
seq_num	401925	Sequence number
obs_id	20198	Observation id
title	The Nature of INTEGRAL Sources in the Galactic Plane	Proposal titl
observer	John Tomsick	Principal investigator
object	IGR J20063+3641	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	301.595	Observer's specified target RA [deg]
dec_targ	36.694306	Observer's specified target Dec [deg]
ra_nom	301.59567340781	Nominal RA [deg]
dec_nom	36.69244685274	Nominal Dec [deg]
roll_nom	45.140676718219	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4972.7997034788	Sum of GTIs [s]
livetime	4510.0668451649	Livetime [s]
ontime7	4972.7997034788	Sum of GTIs [s]
l2events	3497	Number of level 2 events



2 OBI

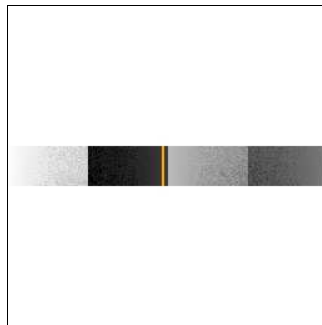
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	4972.7997034788	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	4972.7997034788	Sum of GTIs [s]
date	2020-10-24T18:58:51	Date and time of file creation	l1events	6709	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

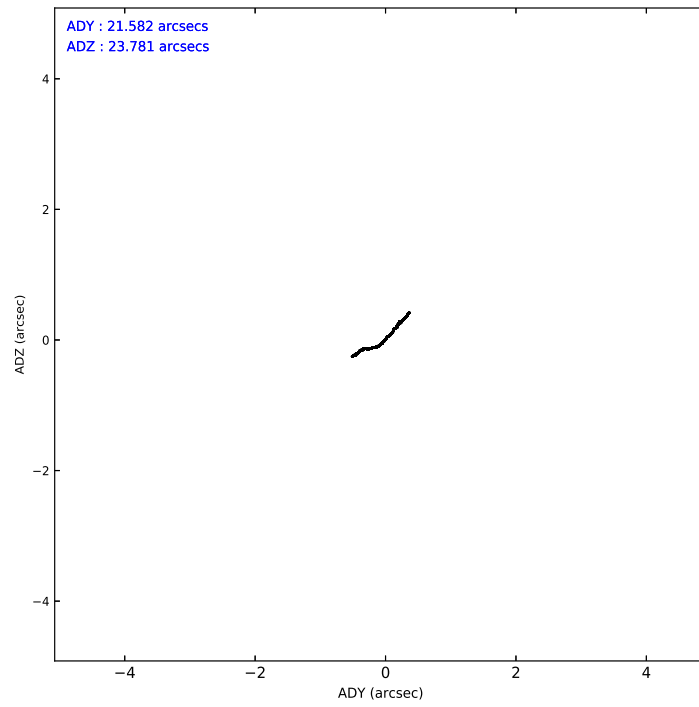
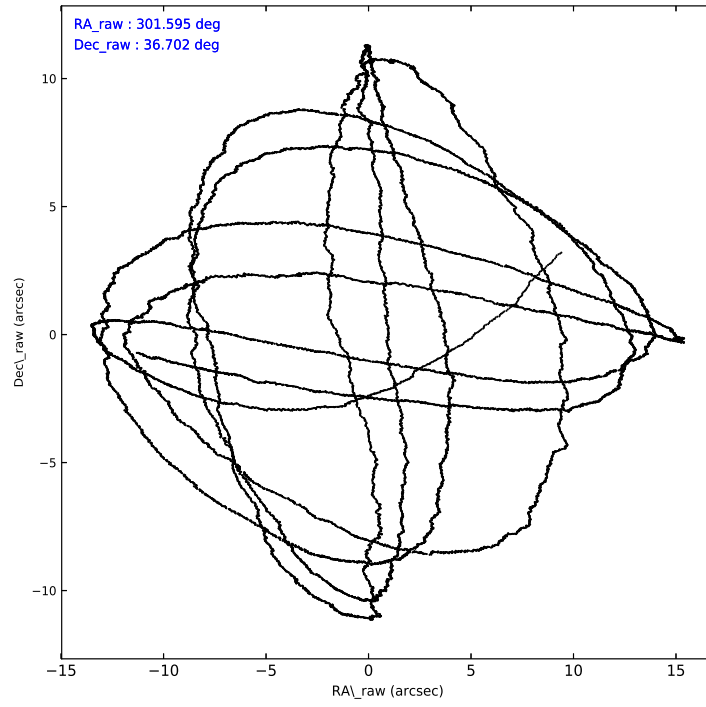
	ccd 7
level 1 events	6709
rejected events	3095
rejected %	46%

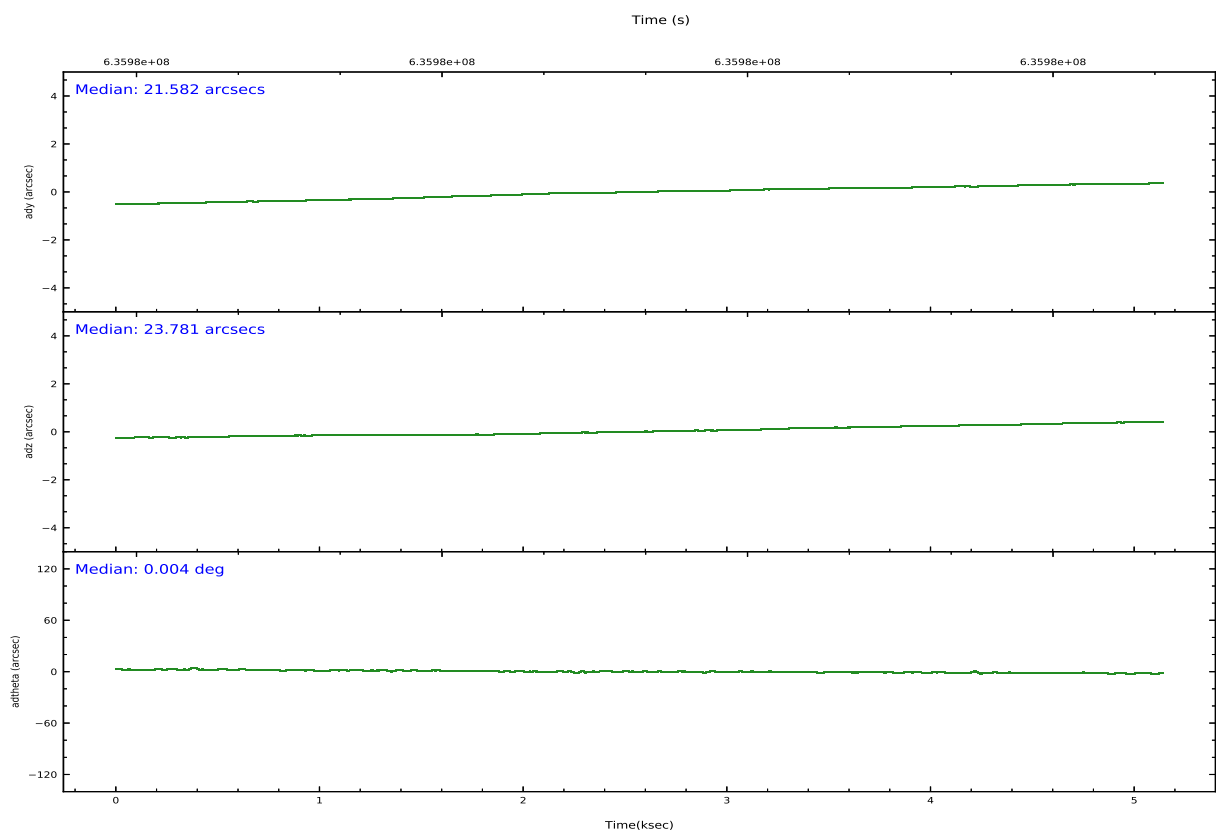
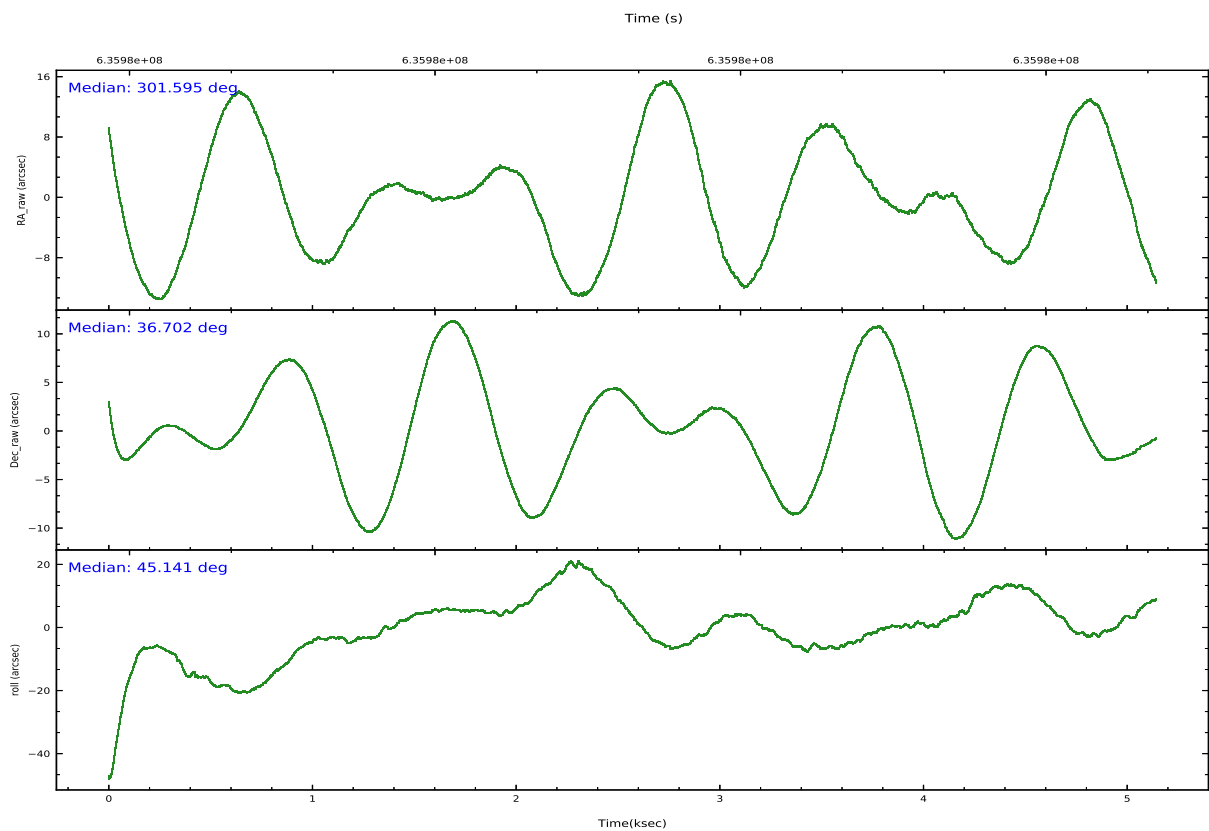
	ccd 7
grade 0 events	411
	6%
grade 1 events	6
	0%
grade 2 events	688
	10%
grade 3 events	451
	6%
grade 4 events	429
	6%
grade 5 events	639
	9%
grade 6 events	1635
	24%
grade 7 events	2450
	36%

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	301.586858	301.59567340781	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	36.675051	36.69244685274	Subarray start row	449	449
[deg] Pointing Roll	44.993516	45.140676718219	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)	635980040.184000	635978771.23621			
Observation start date	2018-02-25T21:06:11	2018-02-25T20:46:11			
[s] Observation end time (MET)	635985040.184000	635986014.91164			
Observation end date	2018-02-25T22:29:31	2018-02-25T22:46:54			
Read mode	TIMED	TIMED			

2.3 Aspect



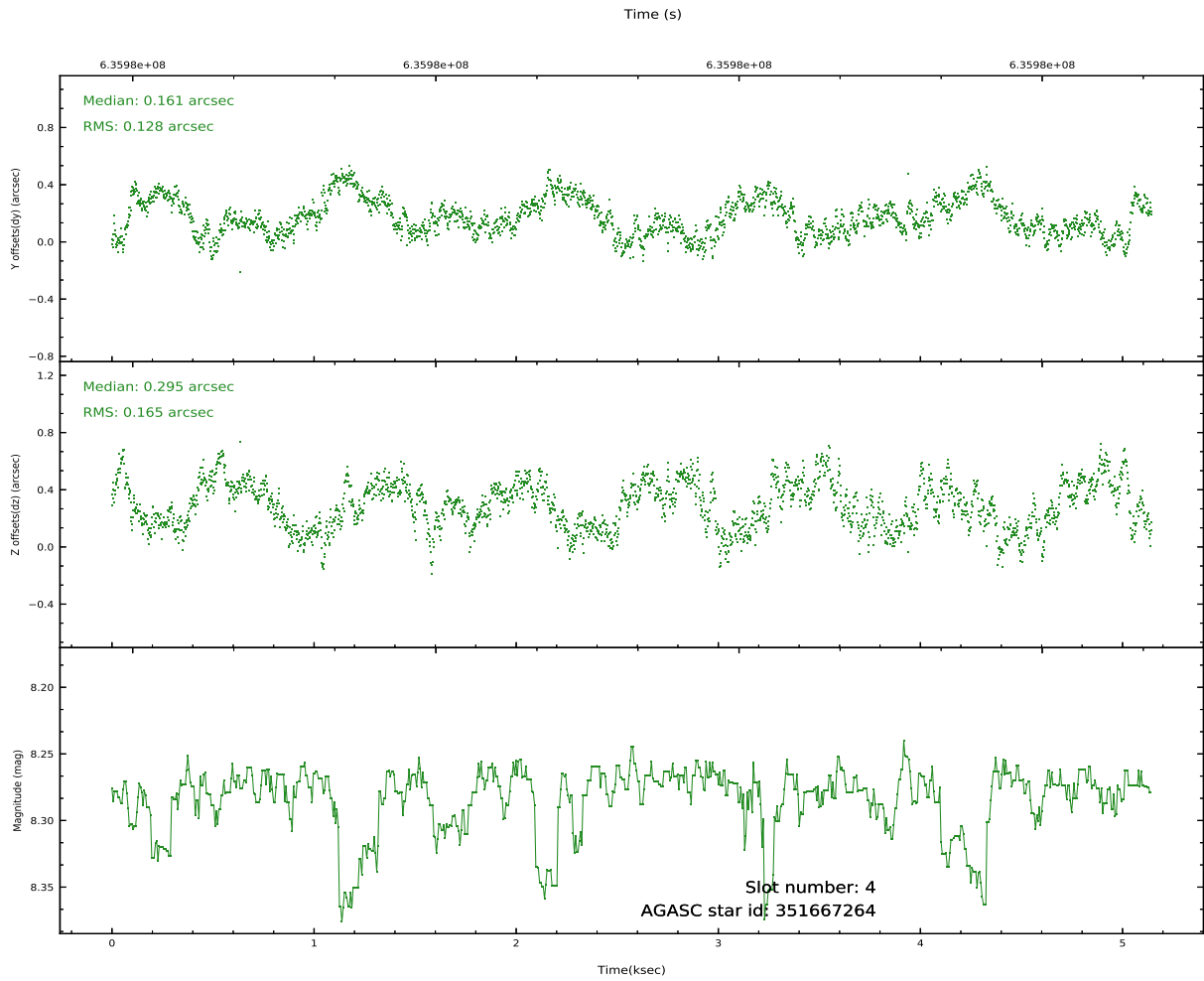
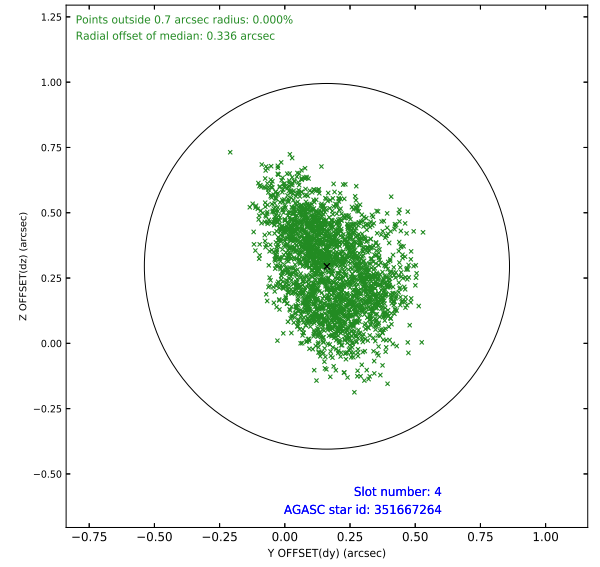
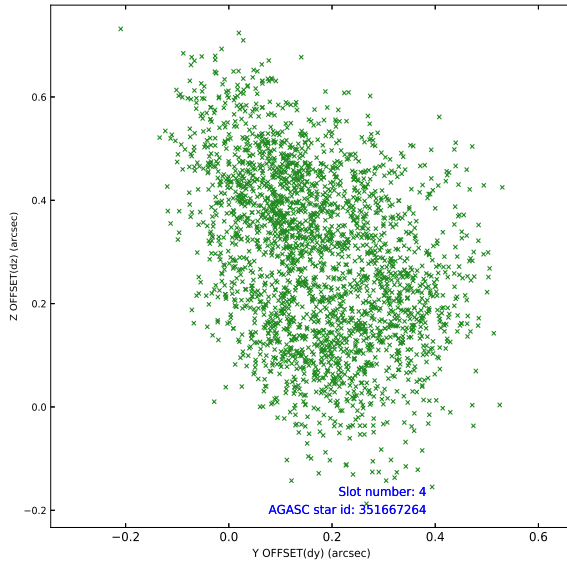


Slot Statistics

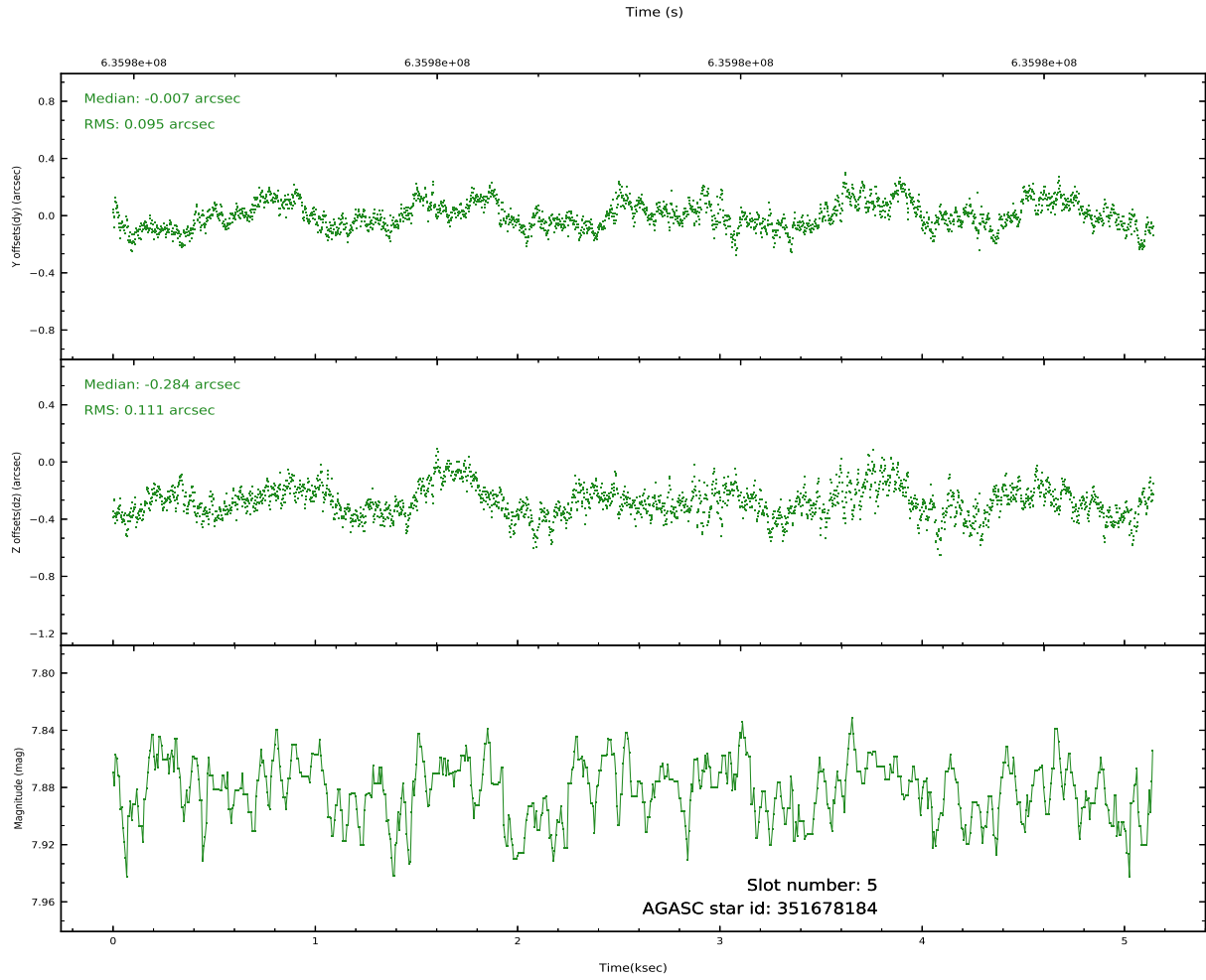
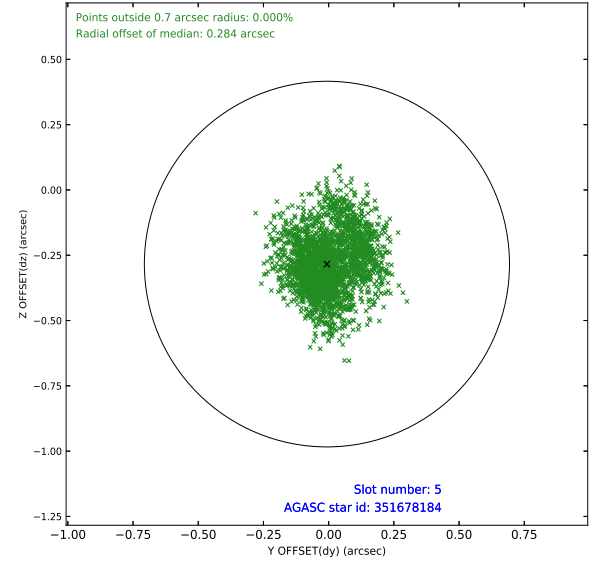
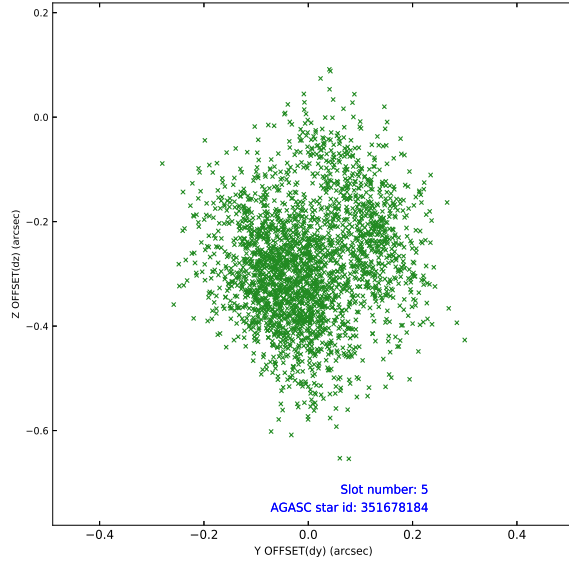
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.01	1255	1.000	0.144	-0.064	0.015	0.023	0.000000	0.000000	-774.78	-1745
1	FID		ACIS-S-4	7.10	1254	1.000	0.044	-0.053	0.008	0.014	0.000000	0.000000	2138.10	161
2	FID		ACIS-S-5	7.12	1255	1.000	-0.220	0.125	0.013	0.020	0.000000	0.000000	-1826.23	157
3	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
4	GUIDE	used	351667264	8.28	2510	1.000	0.161	0.295	0.223	0.345	301.740045	36.396586	-393.93	-1022
5	GUIDE	used	351678184	7.88	2510	1.000	-0.007	-0.284	0.159	0.248	301.899896	36.930760	1289.05	14
6	GUIDE	used	351682104	8.70	2509	1.000	-0.135	0.041	0.220	0.342	301.886966	37.320262	2251.71	1036
7	GUIDE	used	351556232	9.20	2505	1.000	-0.014	-0.062	0.317	0.505	300.867448	36.989234	-656.94	2268

2.4 Star Slots

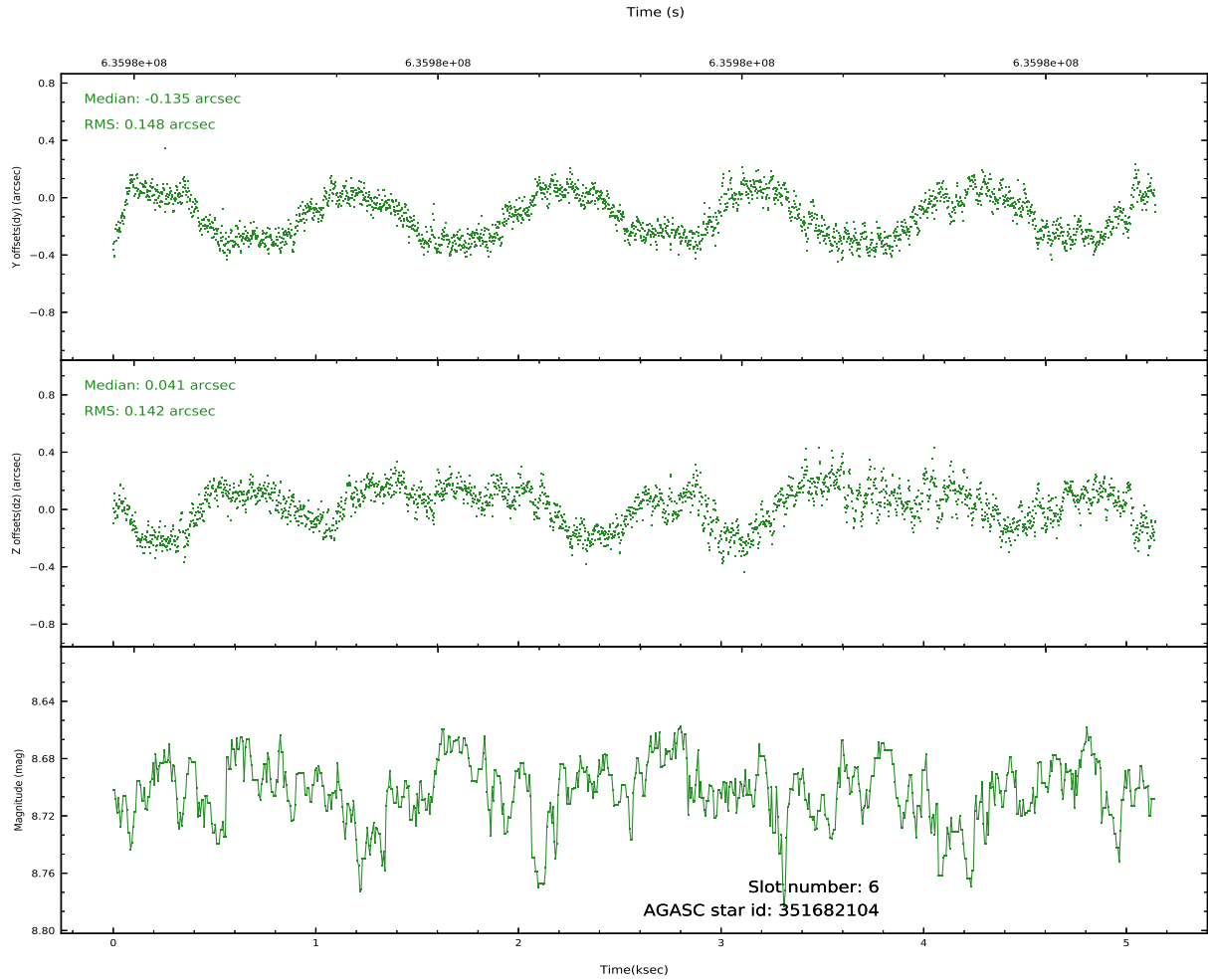
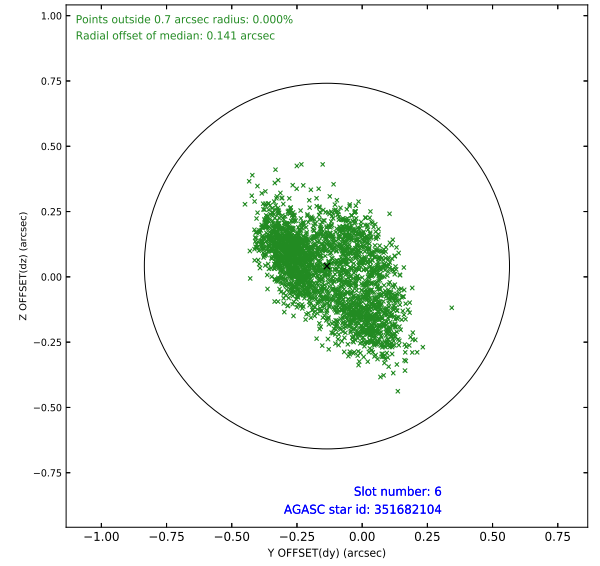
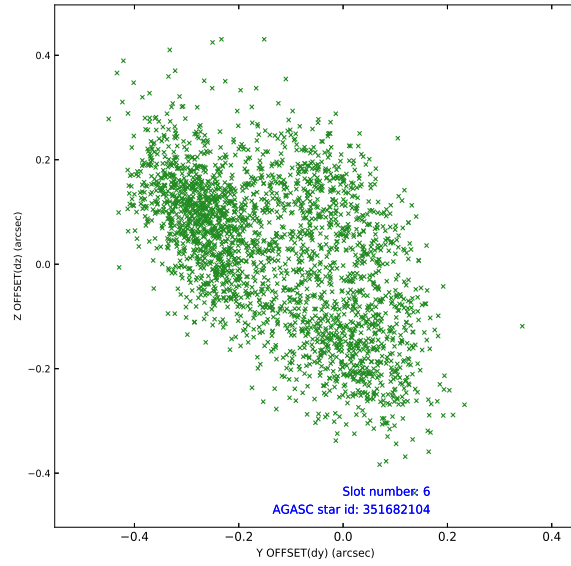
2.4.1 Slot 4



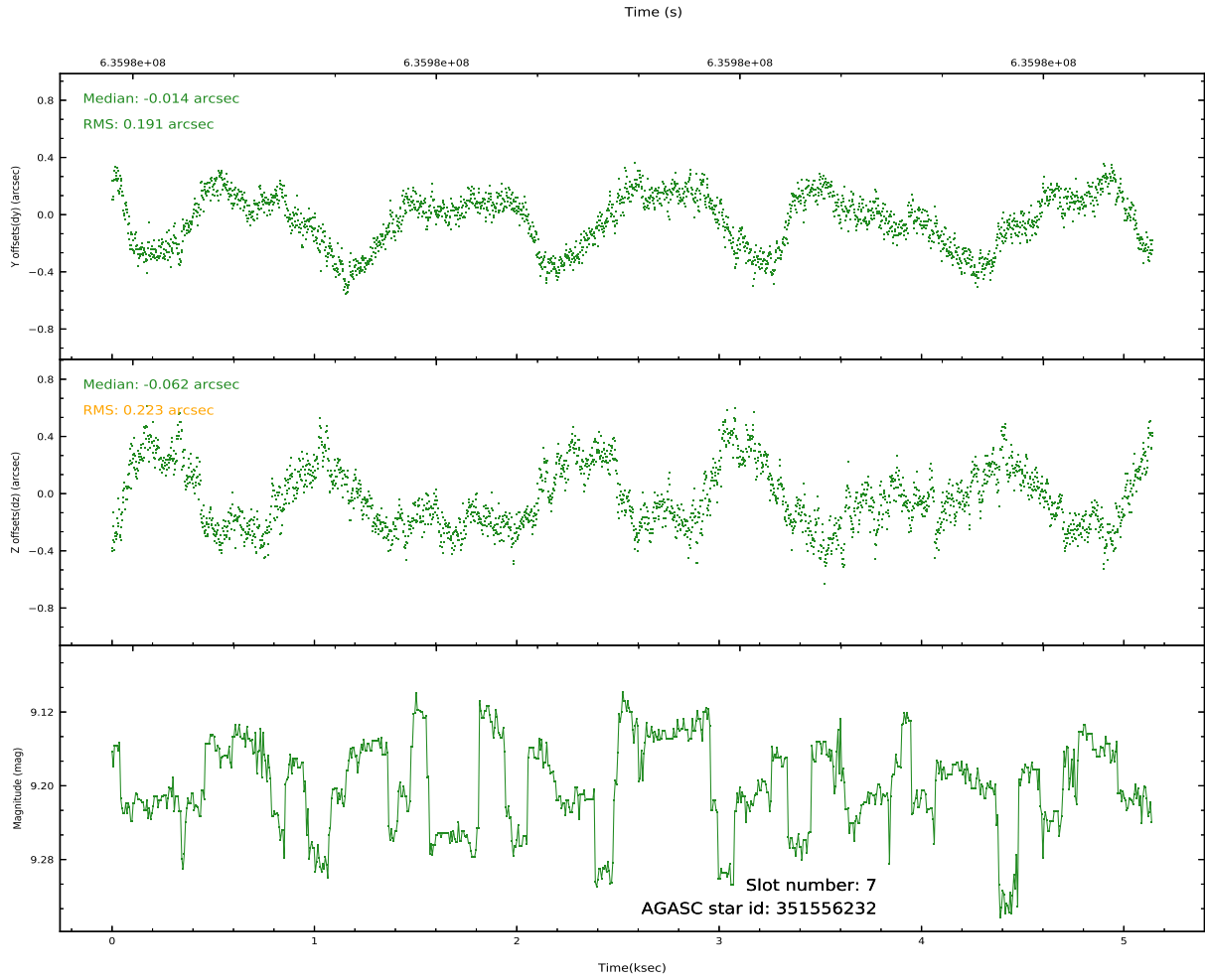
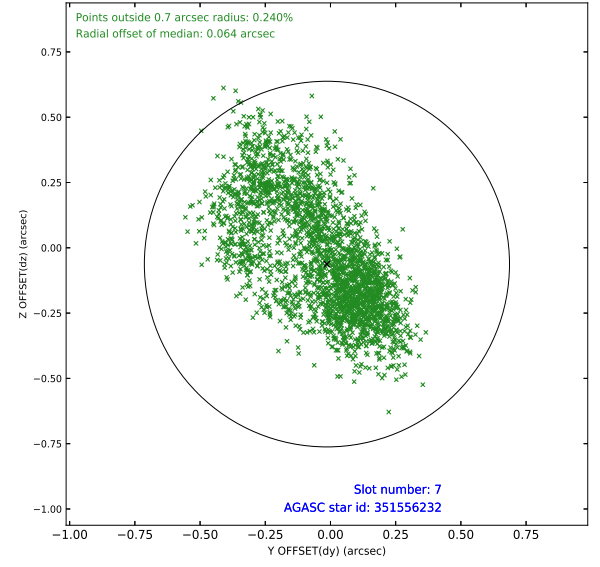
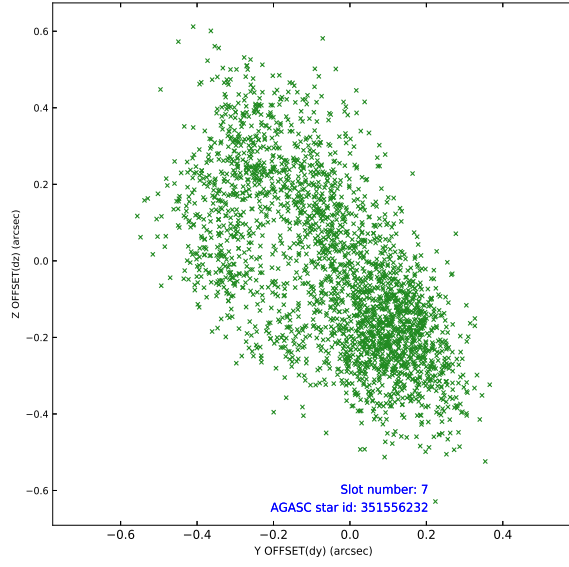
2.4.2 Slot 5



2.4.3 Slot 6

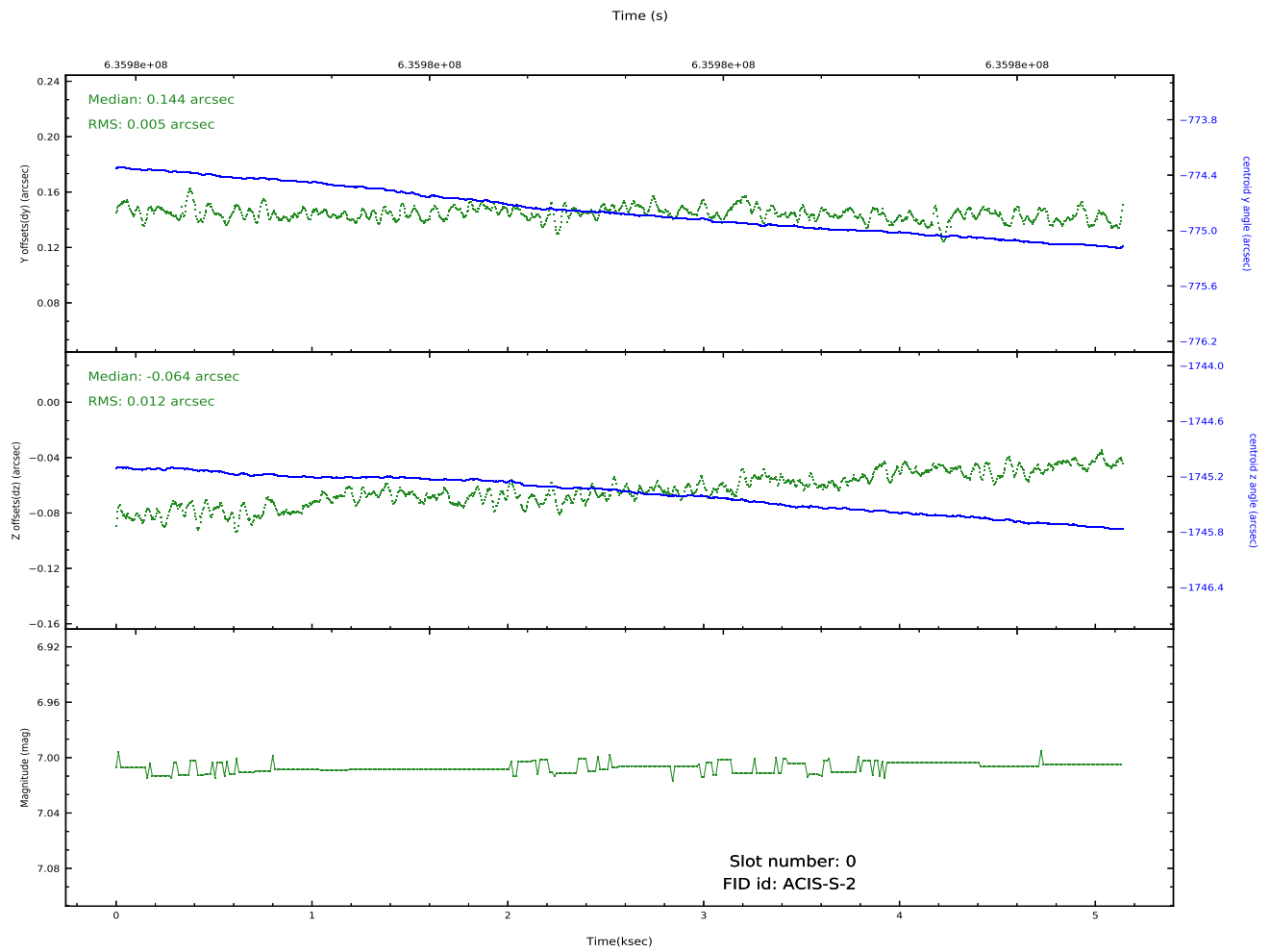
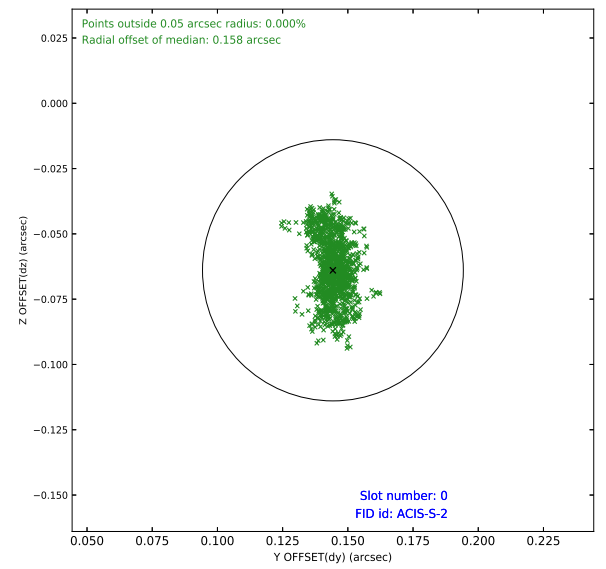
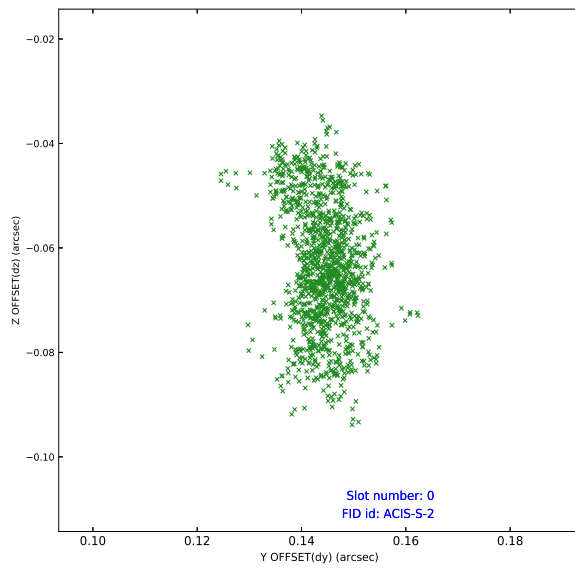


2.4.4 Slot 7

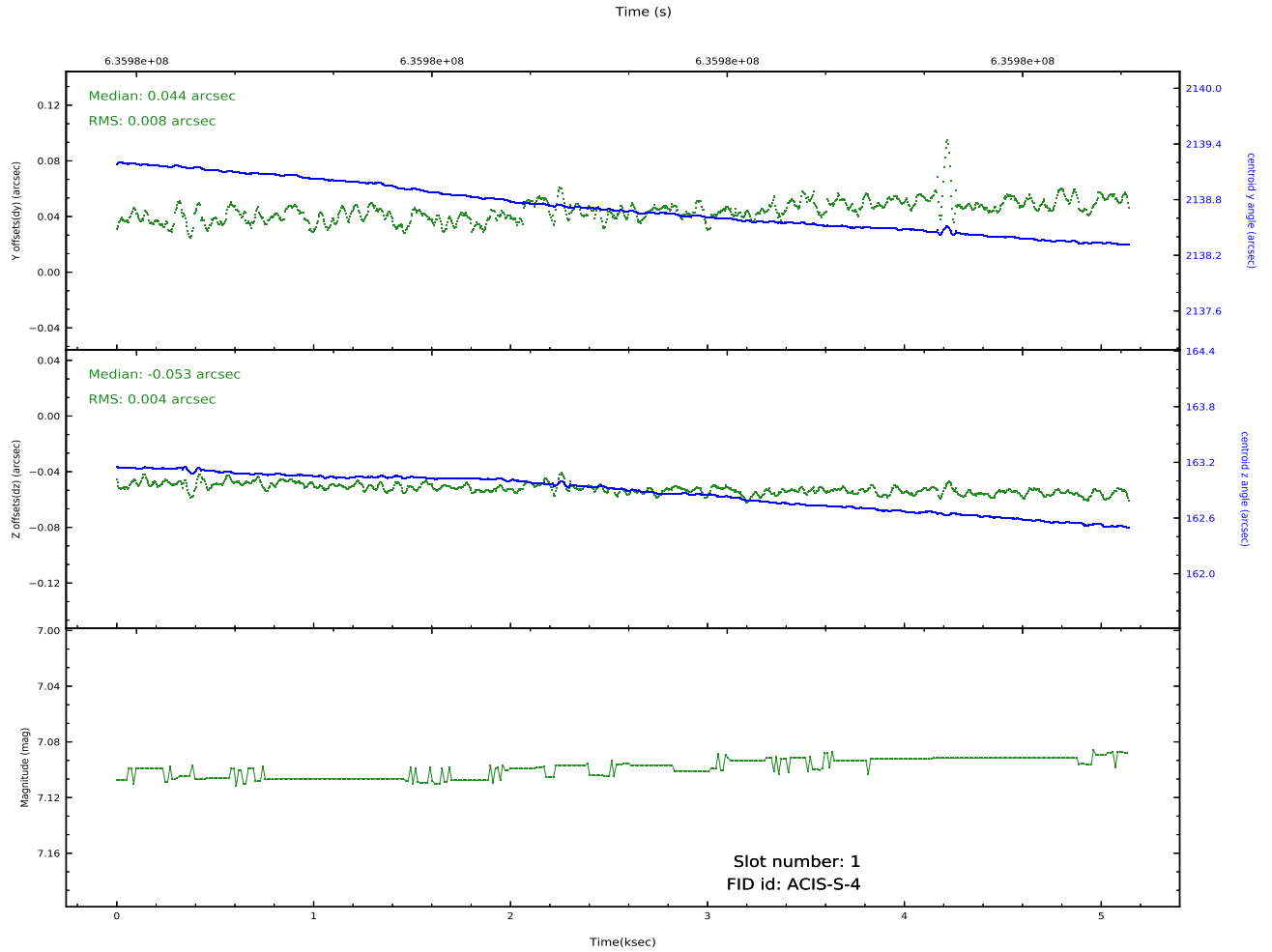
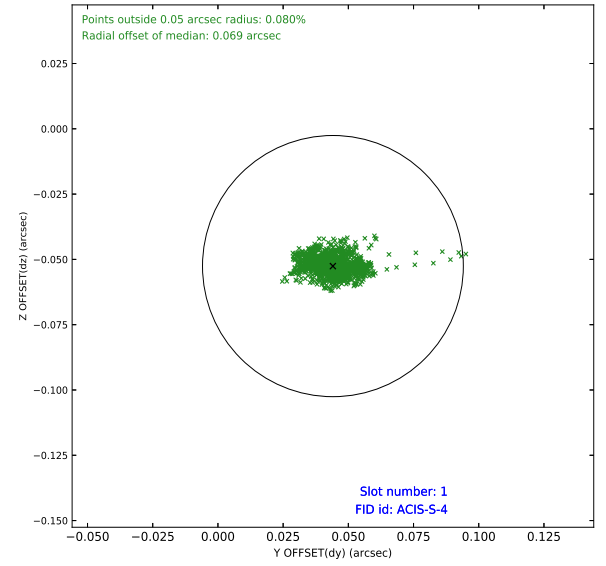
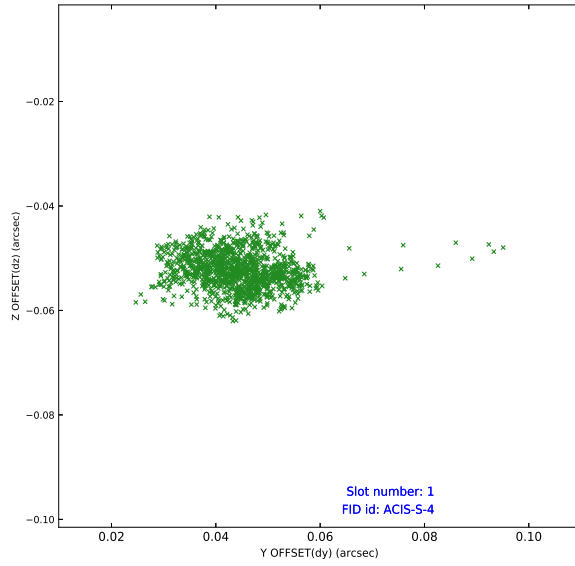


2.5 FID Slots

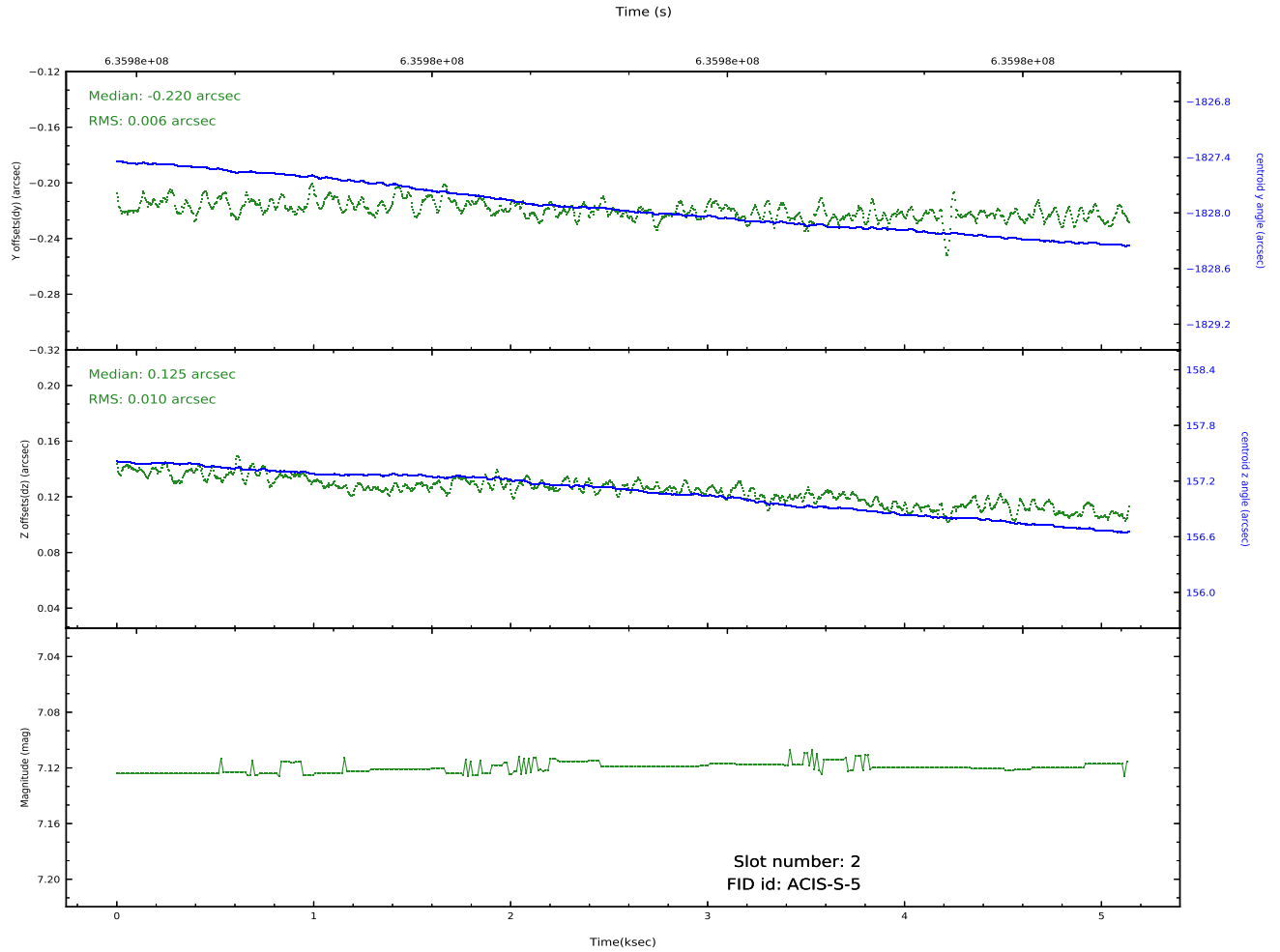
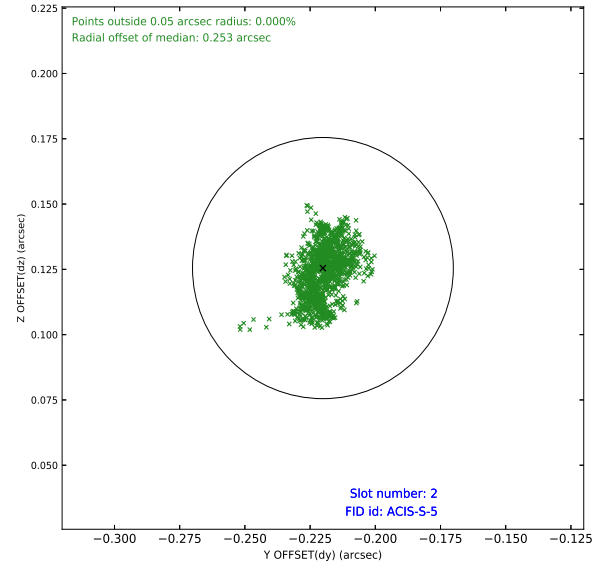
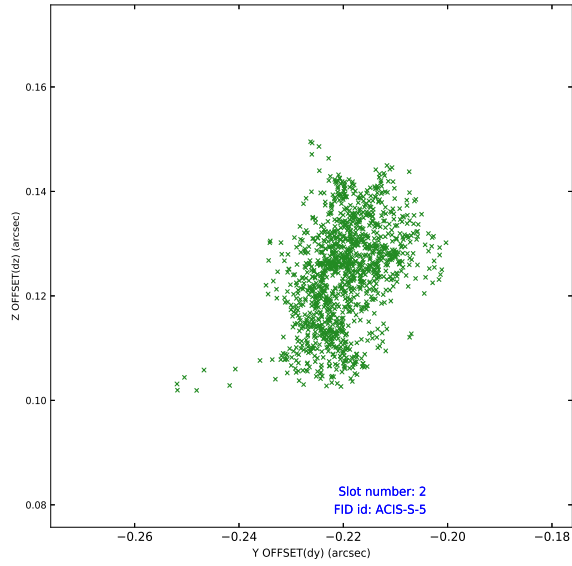
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	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	4.9727997034788

A.2 Comments

The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.