

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20614 - L2 Version 2
Chandra X-Ray Center

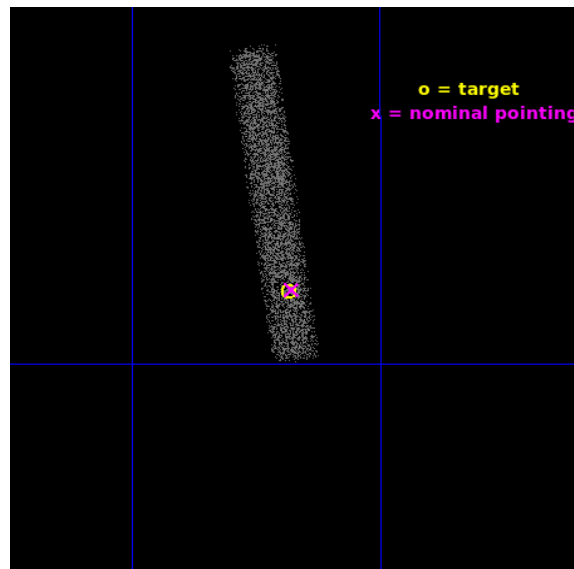
L2 Processing Date : Oct 24 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

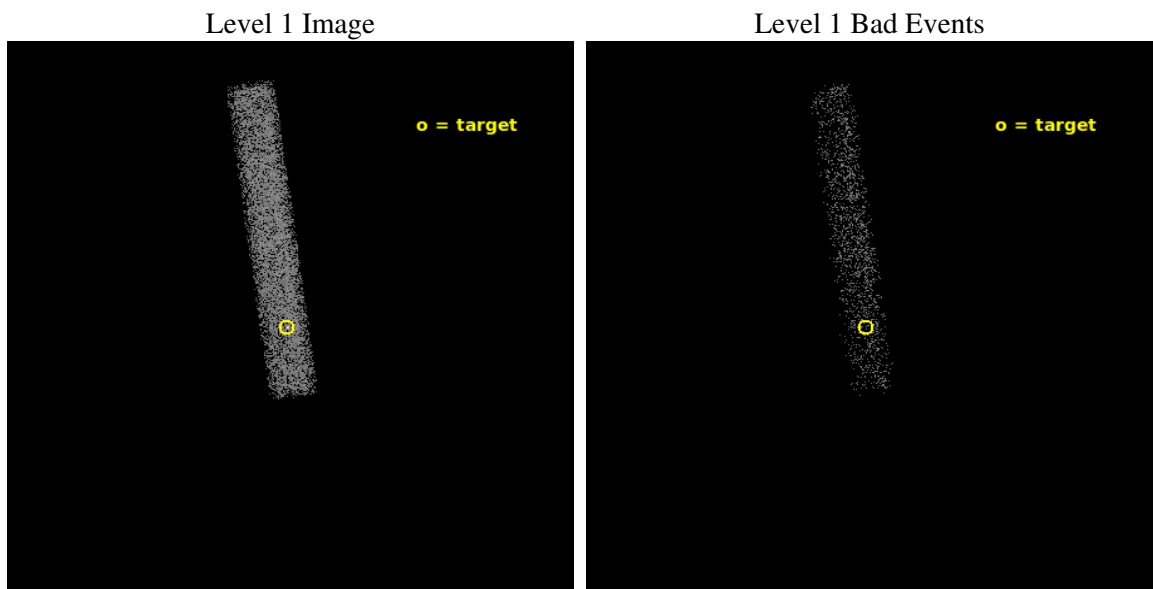
seq_num	201186	Sequence number
obs_id	20614	Observation id
title	Connecting mass accretion and ejection in pre-main sequence stars	
observer	Catherine Espaillat	Principal investigator
object	GM Aur	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	73.795833	Observer's specified target RA [deg]
dec_targ	30.366389	Observer's specified target Dec [deg]
ra_nom	73.794372756897	Nominal RA [deg]
dec_nom	30.366954813038	Nominal Dec [deg]
roll_nom	262.24106145822	Nominal Roll [deg]
revision	2	Processing version of data
ontime	11609.986243248	Sum of GTIs [s]
livetime	10529.644697305	Livetime [s]
ontime7	11609.986243248	Sum of GTIs [s]
l2events	7162	Number of level 2 events



2 OBI

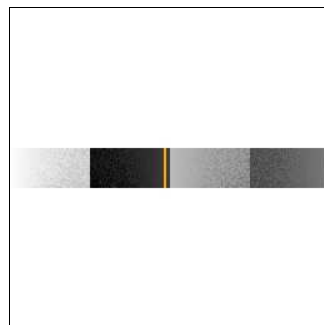
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	11540.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	11609.986243248	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	11609.986243248	Sum of GTIs [s]
date	2020-10-24T04:56:26	Date and time of file creation	l1events	14673	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

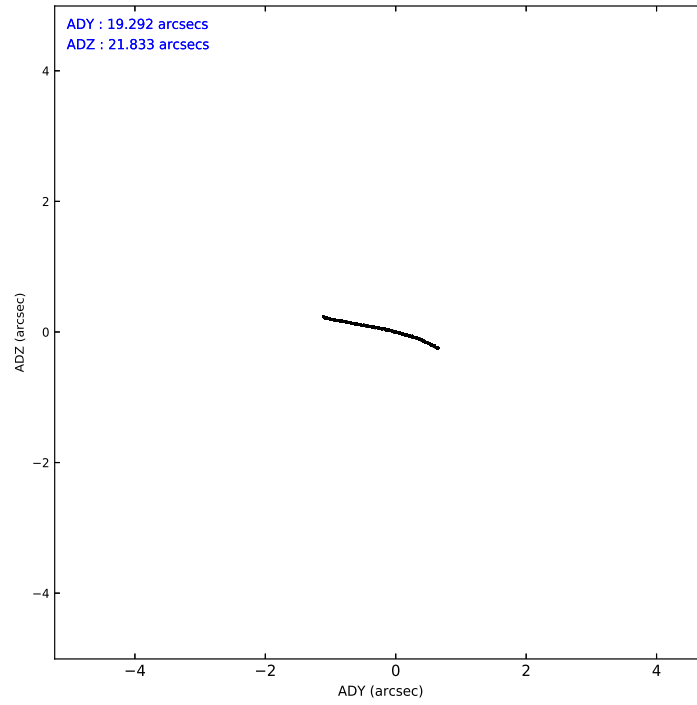
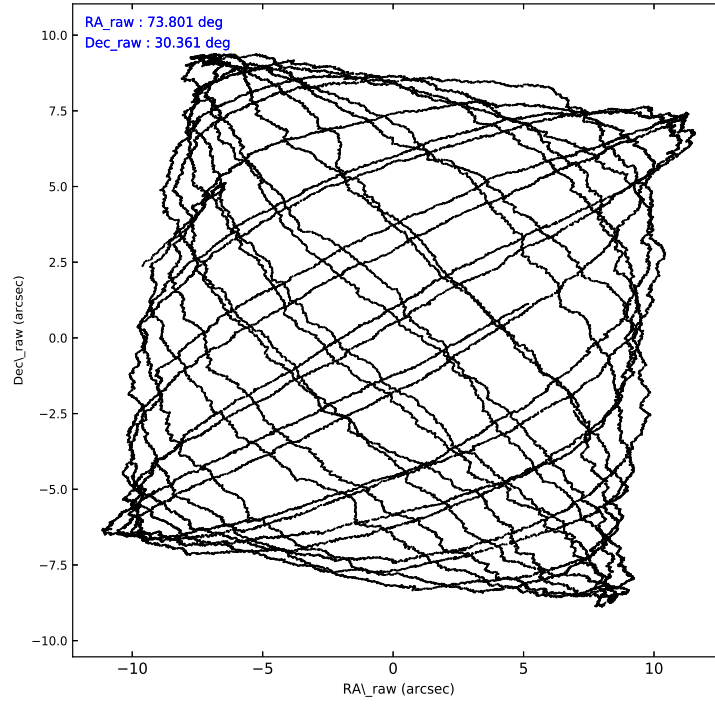
	ccd 7
level 1 events	14673
rejected events	7216
rejected %	49%

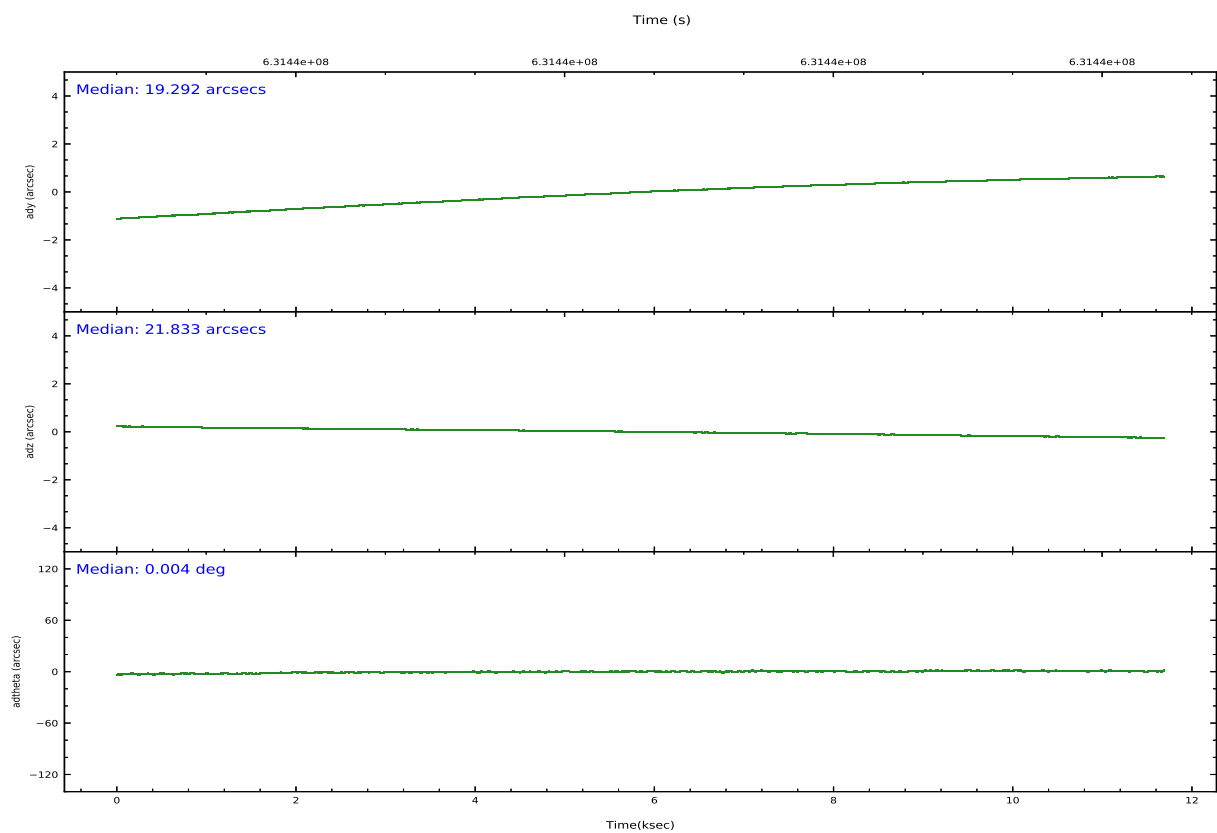
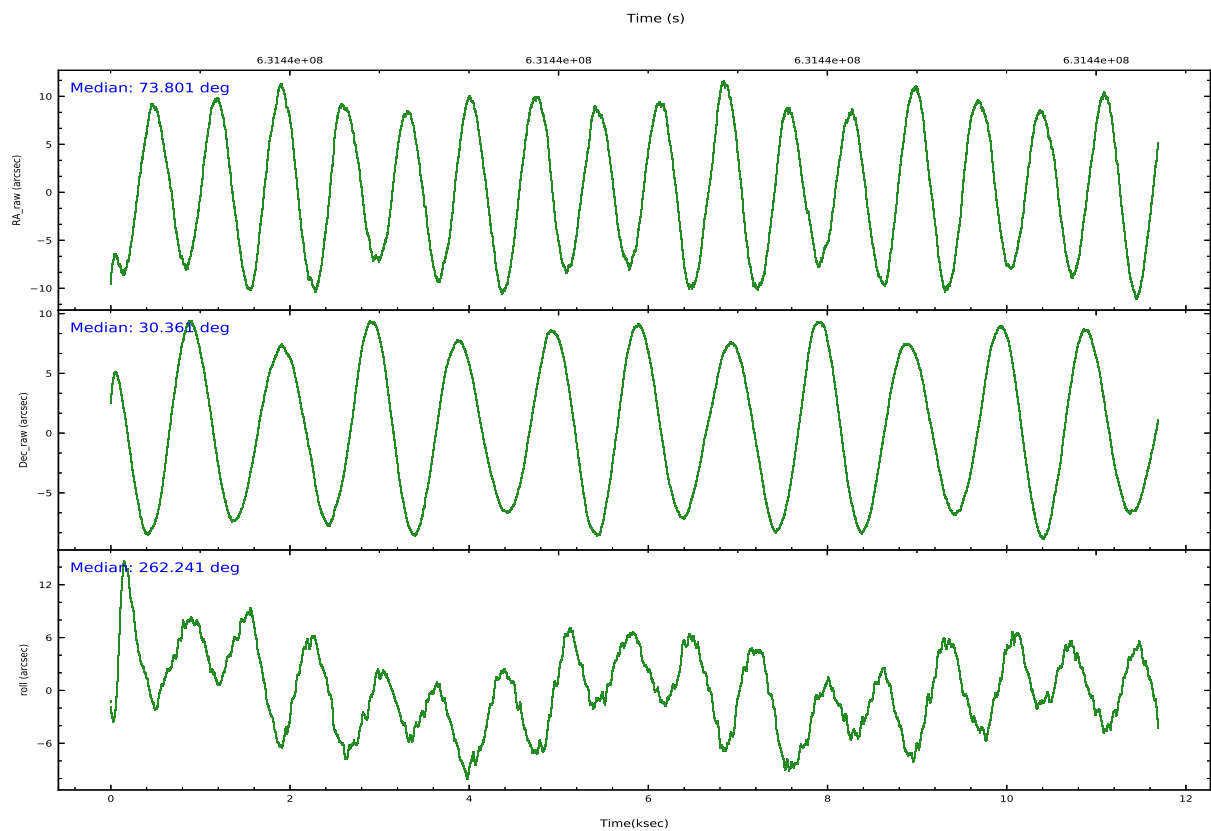
	ccd 7
grade 0 events	885
	6%
grade 1 events	31
	0%
grade 2 events	1499
	10%
grade 3 events	968
	6%
grade 4 events	894
	6%
grade 5 events	1443
	9%
grade 6 events	3211
	21%
grade 7 events	5742
	39%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	73.788296	73.794372756897	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	30.385927	30.366954813038	Subarray start row	449	449
[deg] Pointing Roll	262.100095	262.24106145822	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)	631433151.184000	631432169.24352			
Observation start date	2018-01-04T06:04:42	2018-01-04T05:49:29			
[s] Observation end time (MET)	631444691.184000	631445930.89433			
Observation end date	2018-01-04T09:17:02	2018-01-04T09:38:50			
Read mode	TIMED	TIMED			

2.3 Aspect



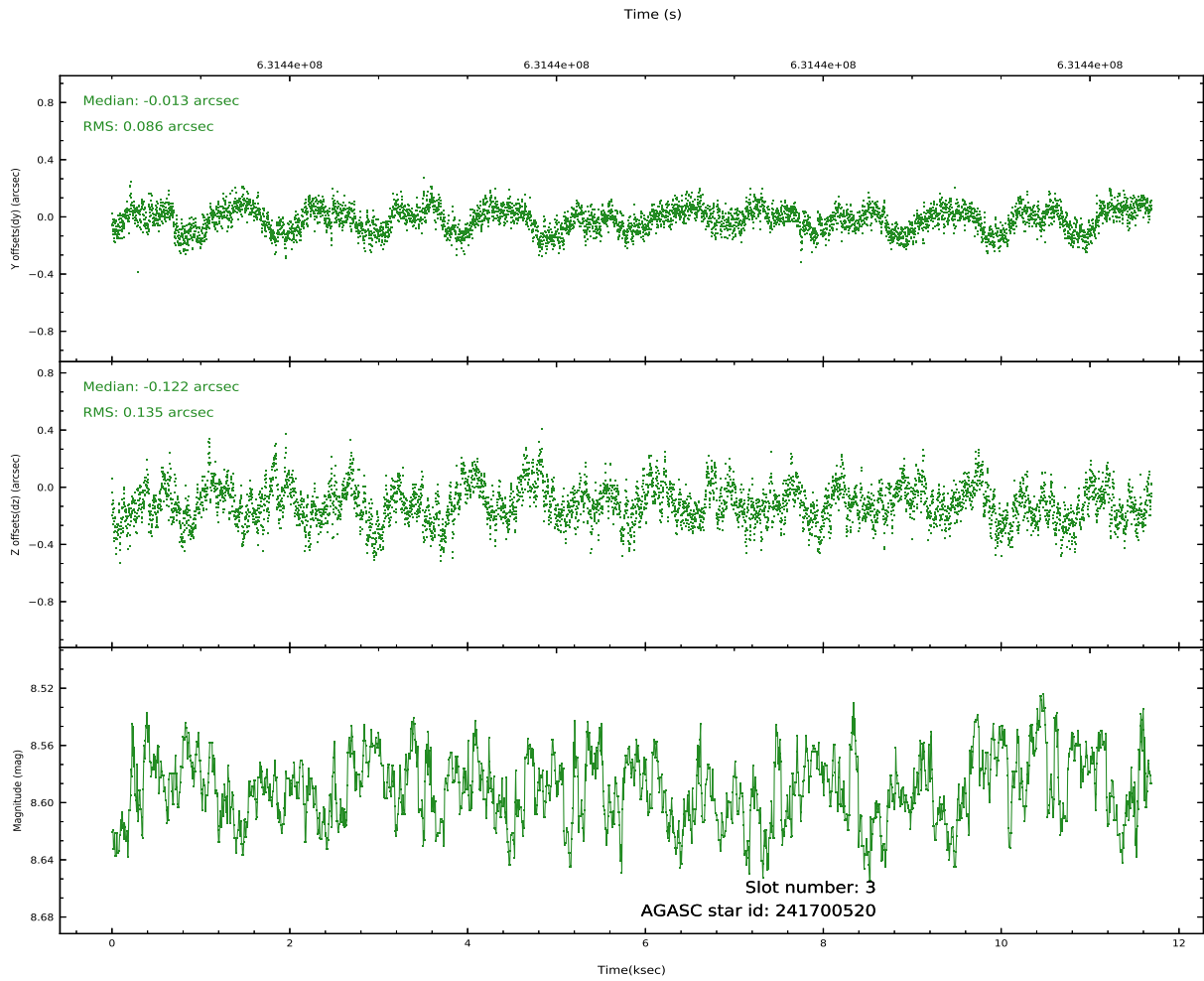
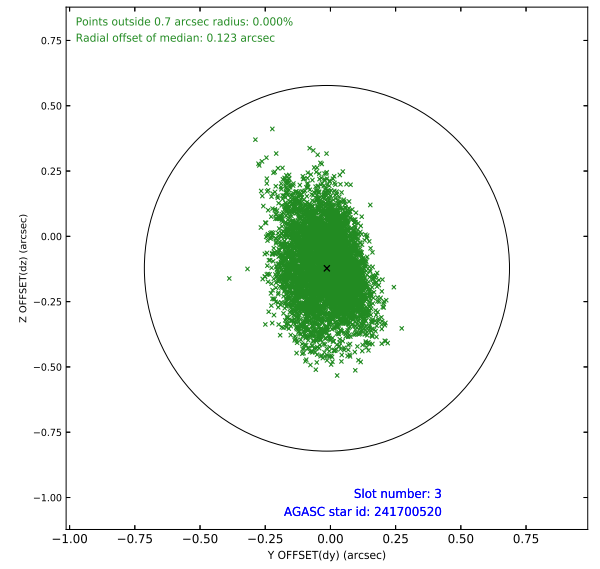
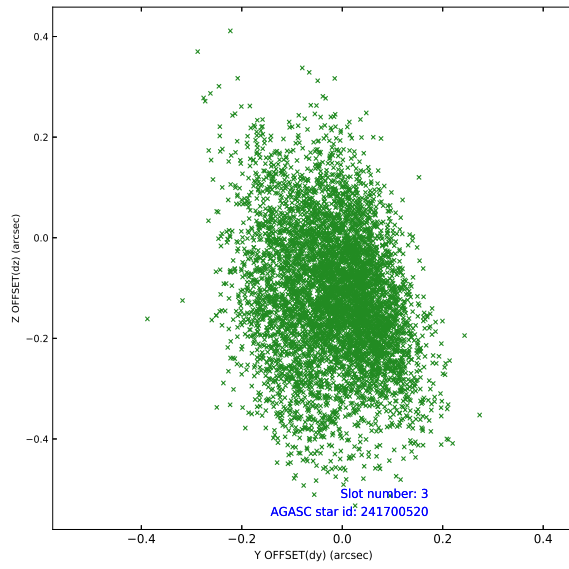


Slot Statistics

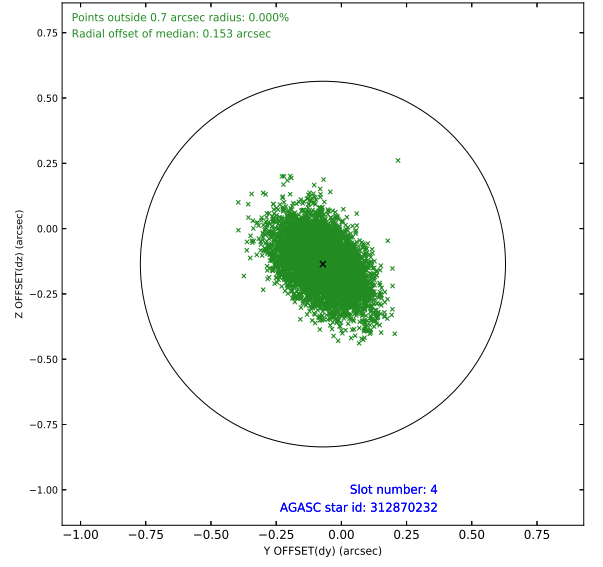
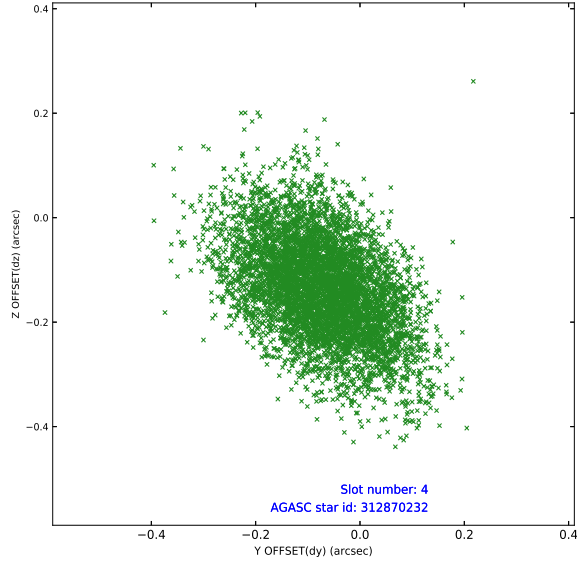
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.01	2852	1.000	0.118	-0.116	0.014	0.021	0.000000	0.000000	-772.43	-1743
1	FID		ACIS-S-4	7.12	2852	1.000	0.105	-0.027	0.011	0.019	0.000000	0.000000	2140.91	164
2	FID		ACIS-S-5	7.11	2849	1.000	-0.255	0.149	0.016	0.027	0.000000	0.000000	-1824.81	159
3	GUIDE	used	241700520	8.59	5702	1.000	-0.013	-0.122	0.168	0.285	74.420132	29.886487	1504.39	2200
4	GUIDE	used	312870232	7.98	5702	1.000	-0.071	-0.136	0.136	0.226	73.950966	30.337905	102.08	524
5	GUIDE	used	312870352	8.75	5700	1.000	-0.095	0.208	0.141	0.232	73.165410	31.038081	-2066.52	-2226
6	GUIDE	used	312872256	7.96	5704	1.000	0.293	0.040	0.106	0.193	73.250802	30.830210	-1359.68	-1865
7	GUIDE	used	313012784	8.24	5702	1.000	-0.110	0.005	0.126	0.229	74.505645	30.125716	613.76	2340

2.4 Star Slots

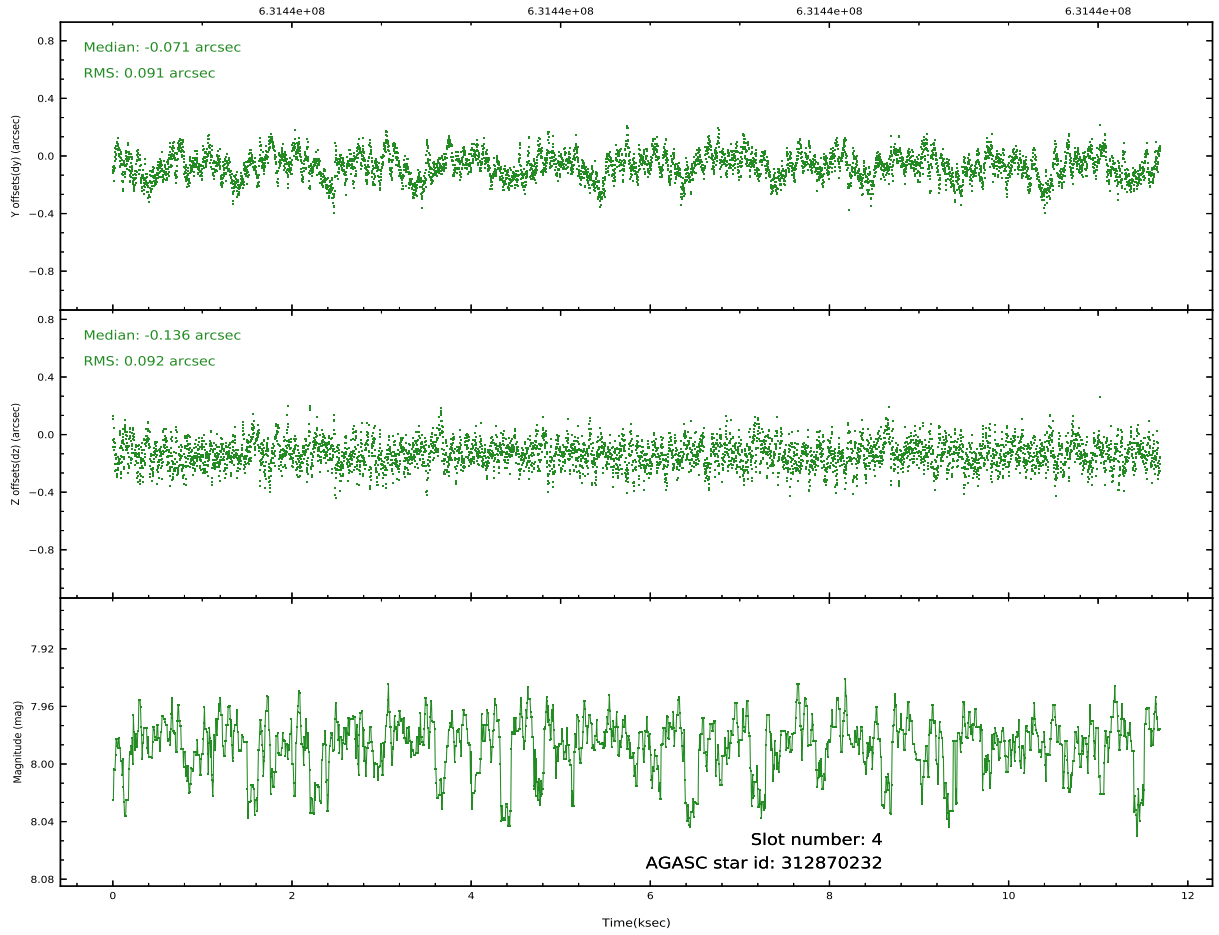
2.4.1 Slot 3



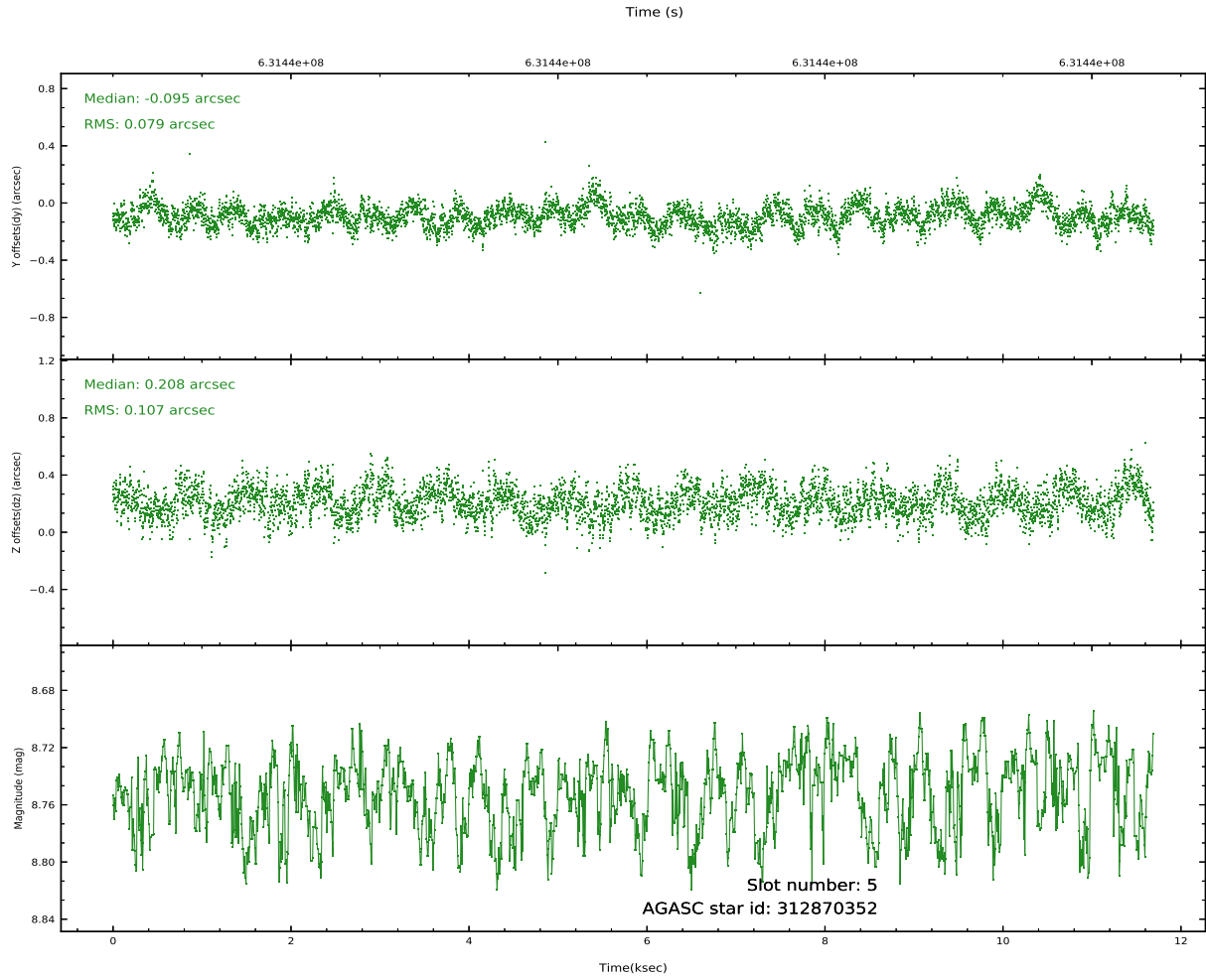
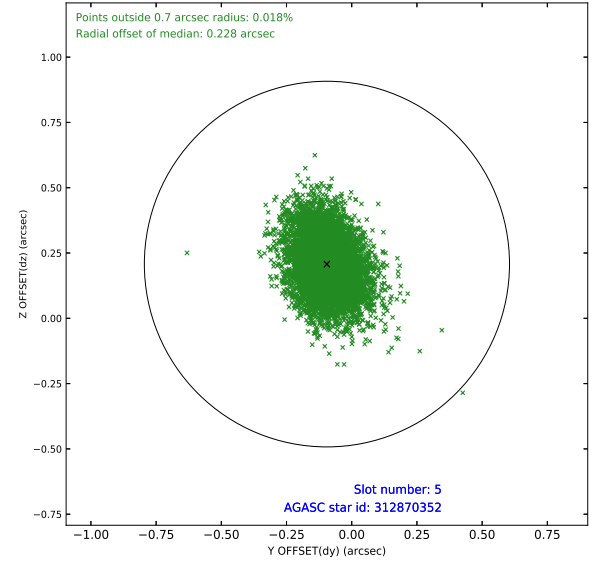
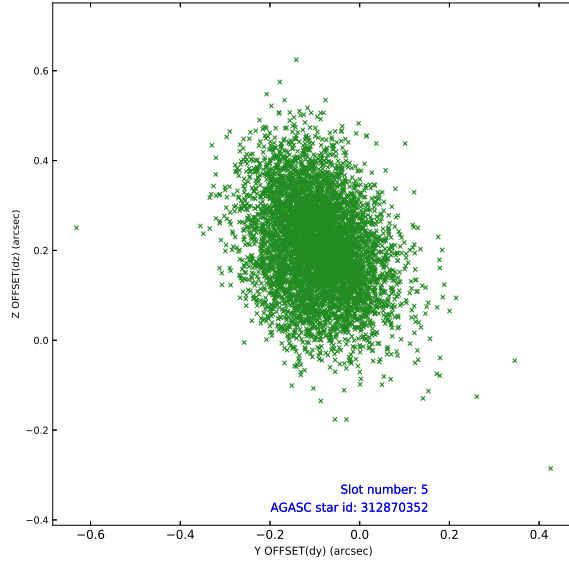
2.4.2 Slot 4



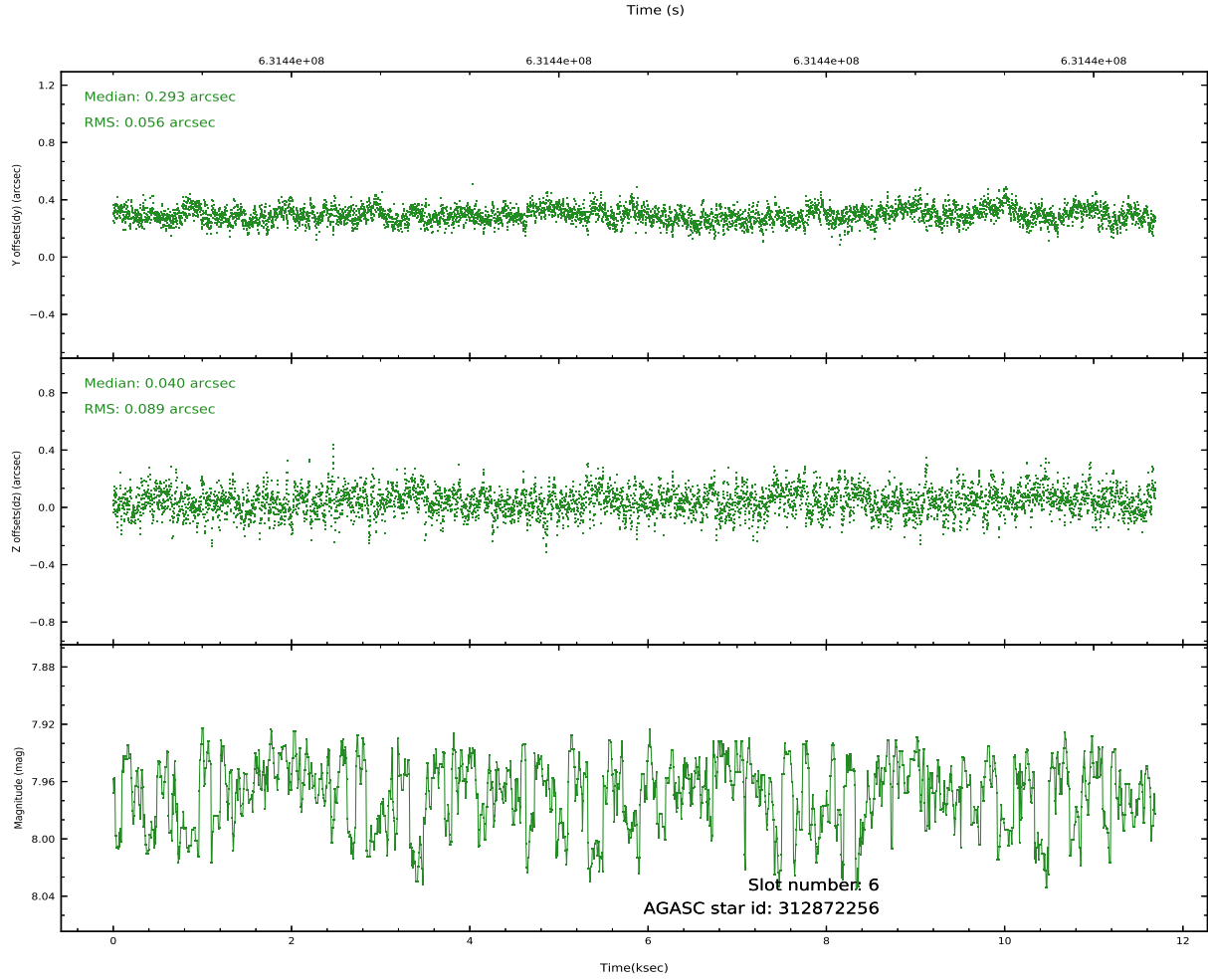
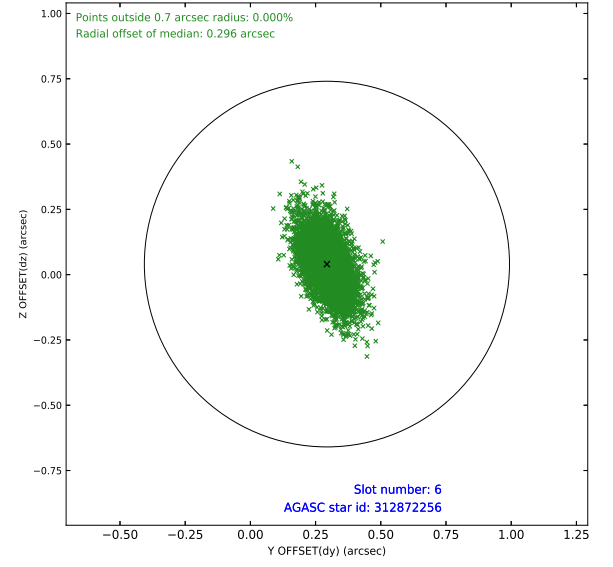
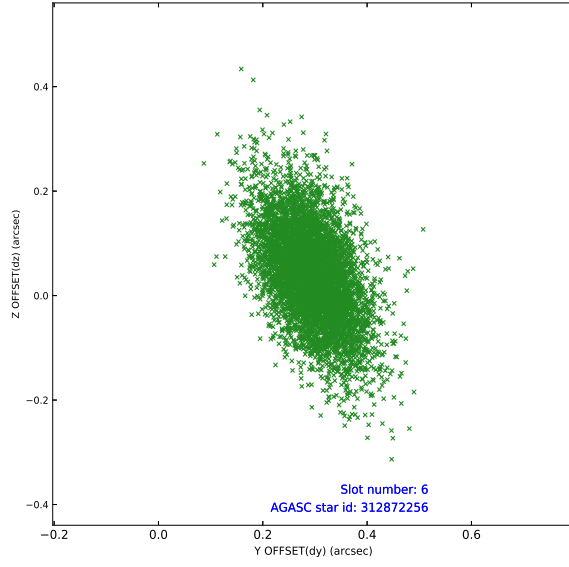
Time (s)



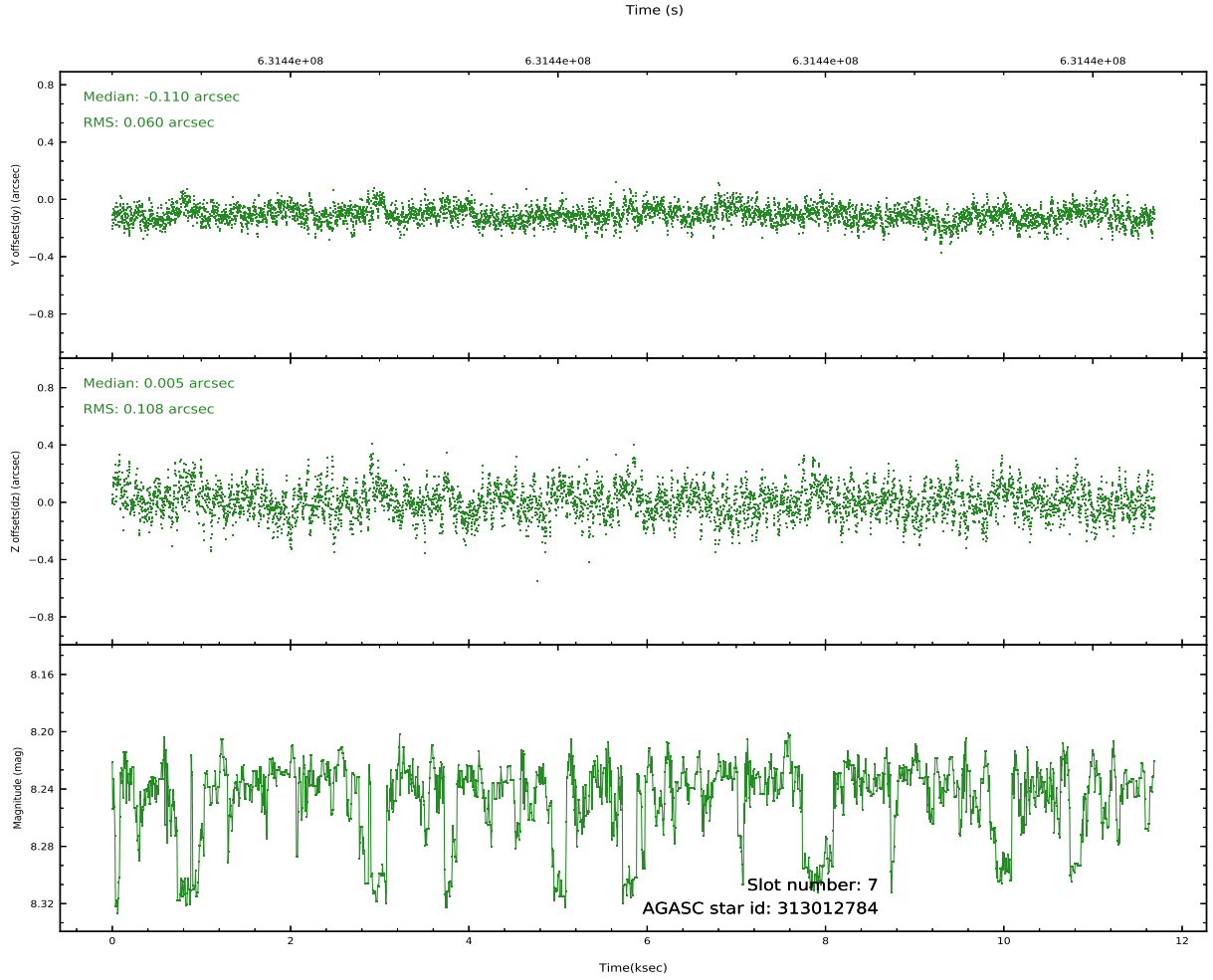
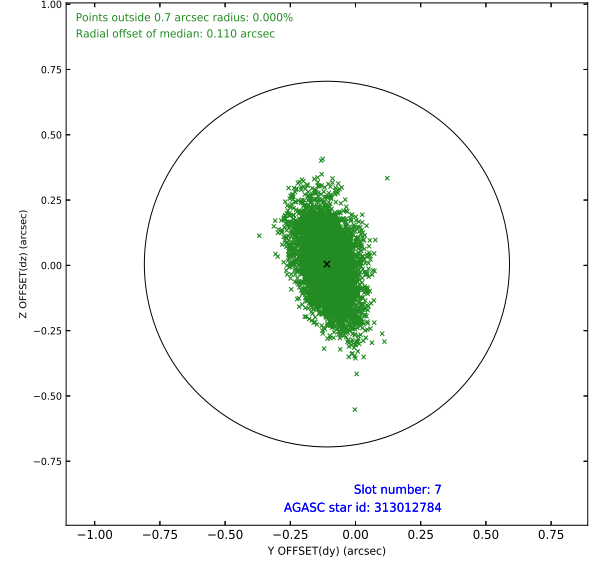
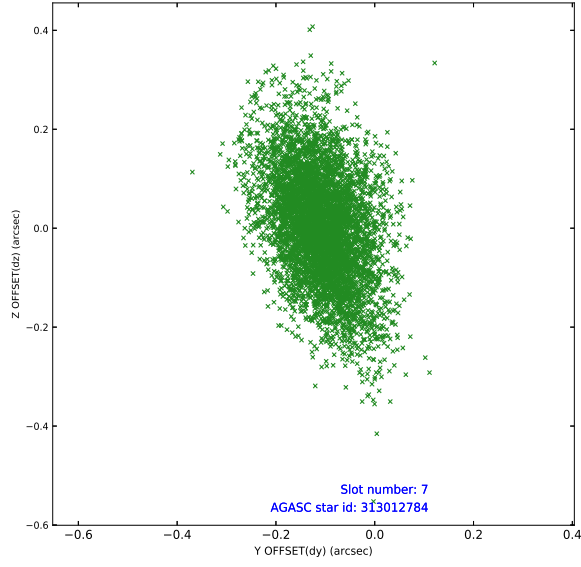
2.4.3 Slot 5



2.4.4 Slot 6

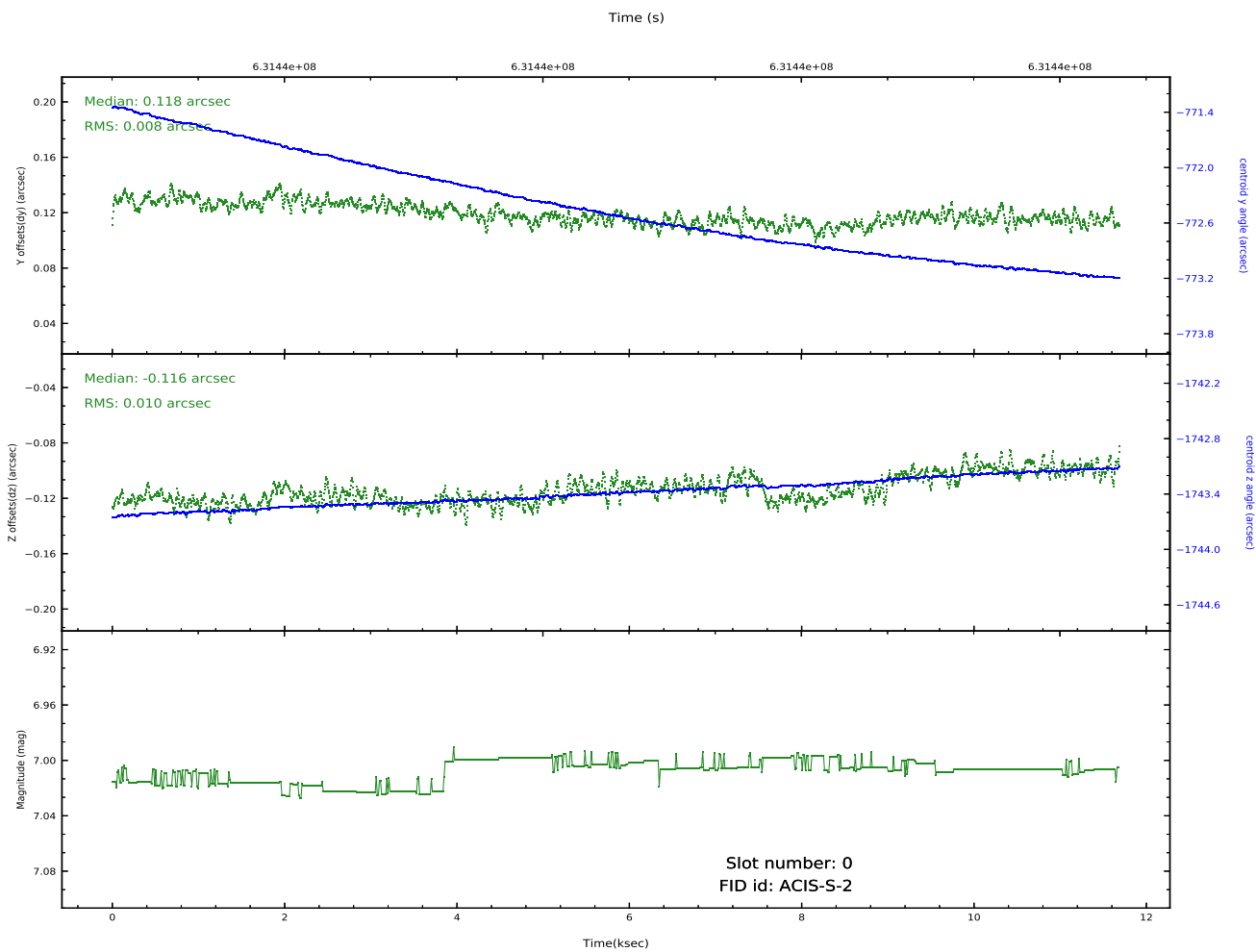
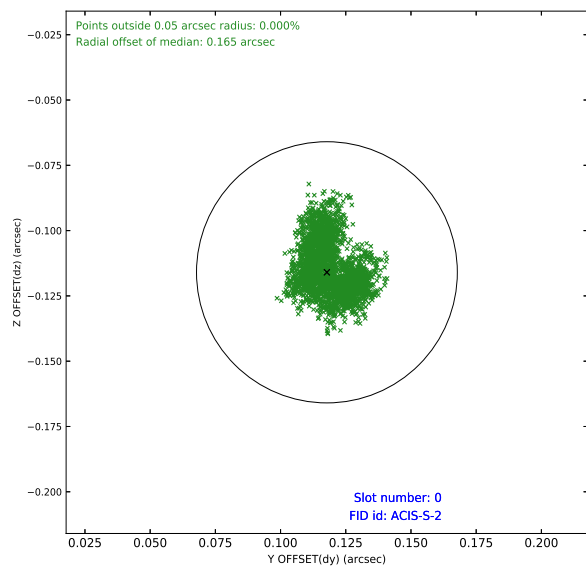
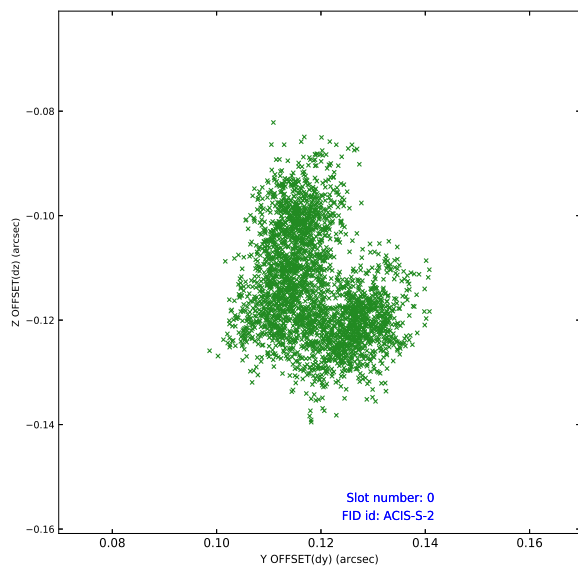


2.4.5 Slot 7

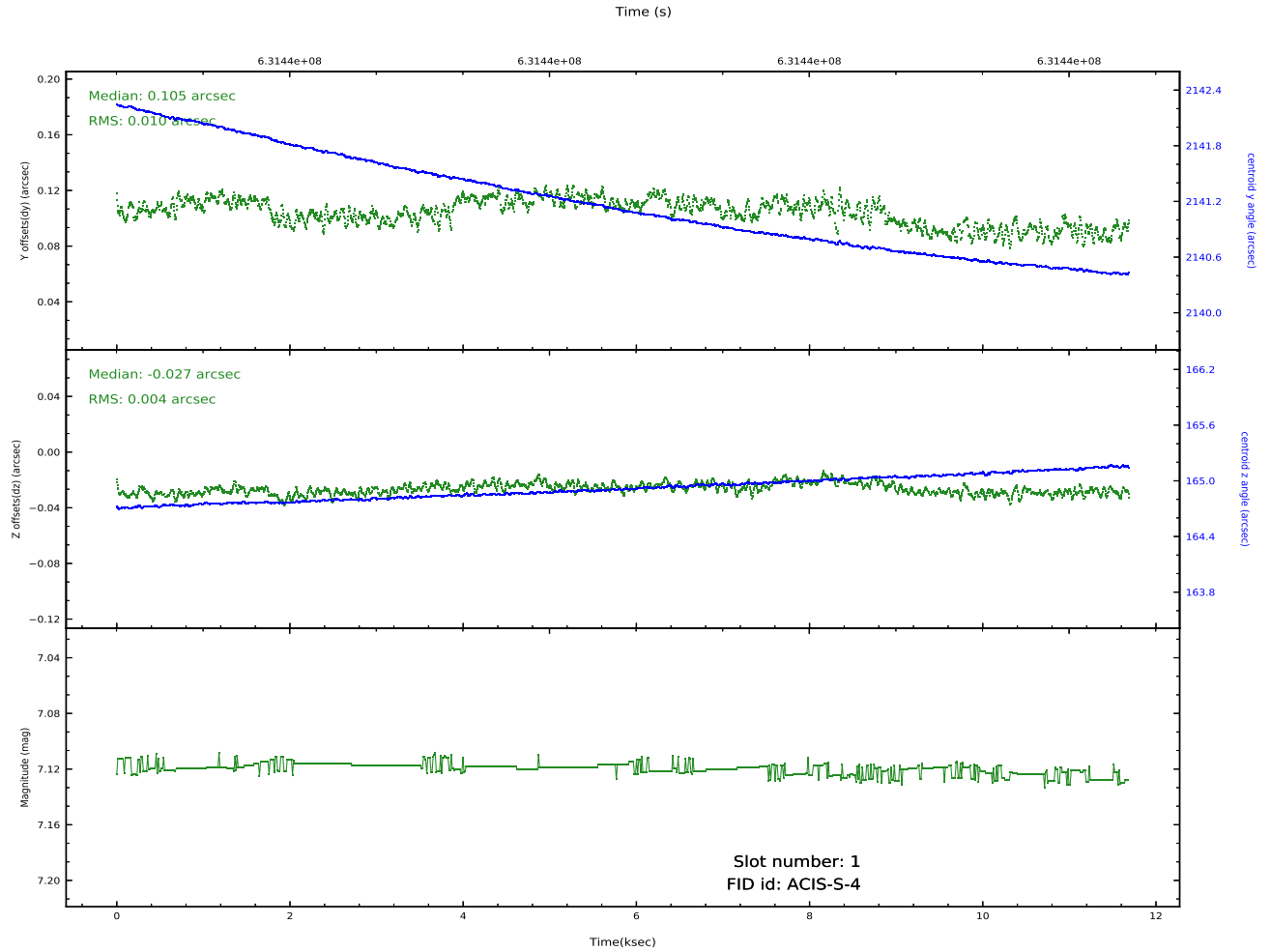
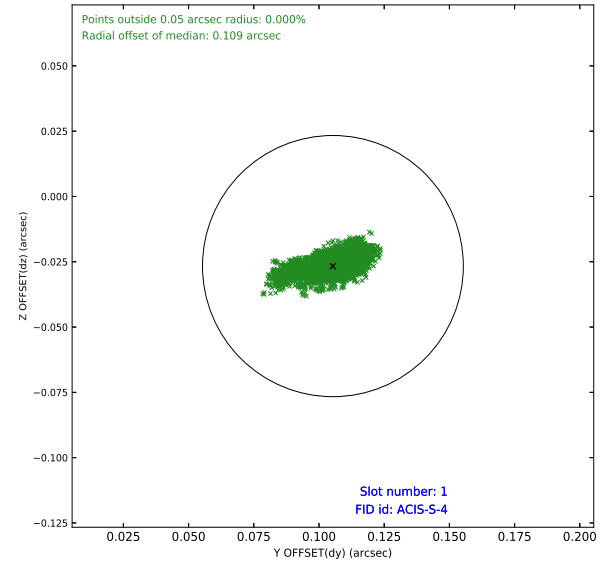
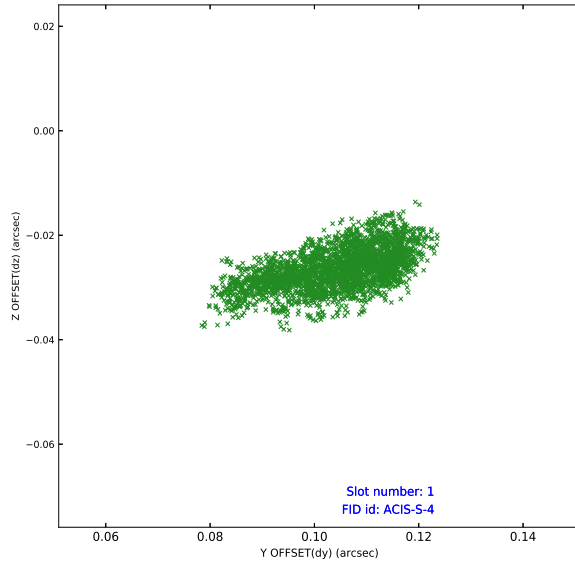


2.5 FID Slots

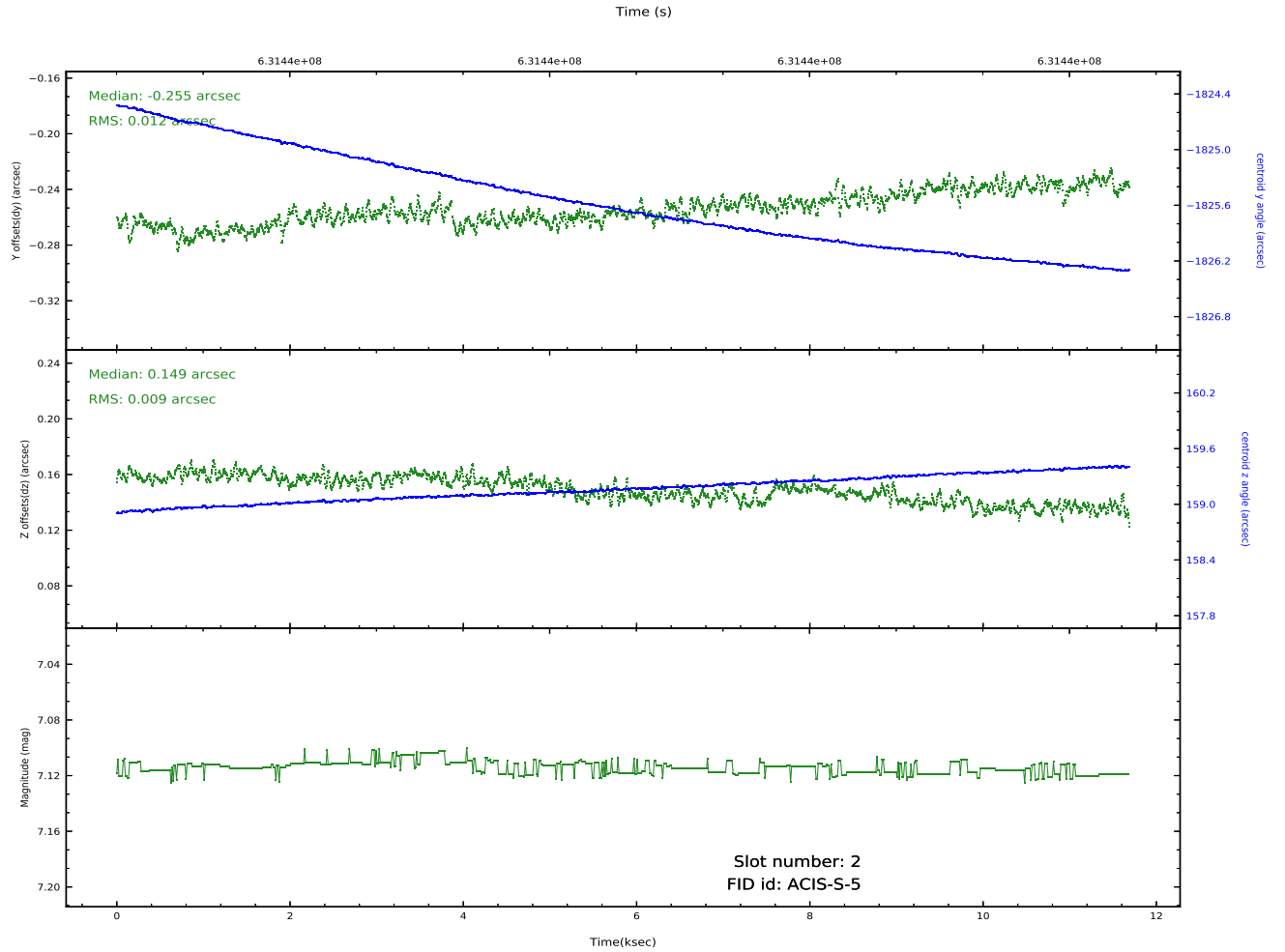
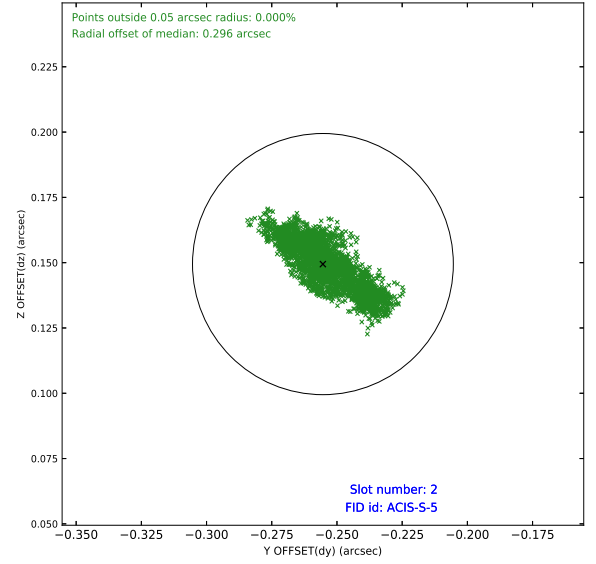
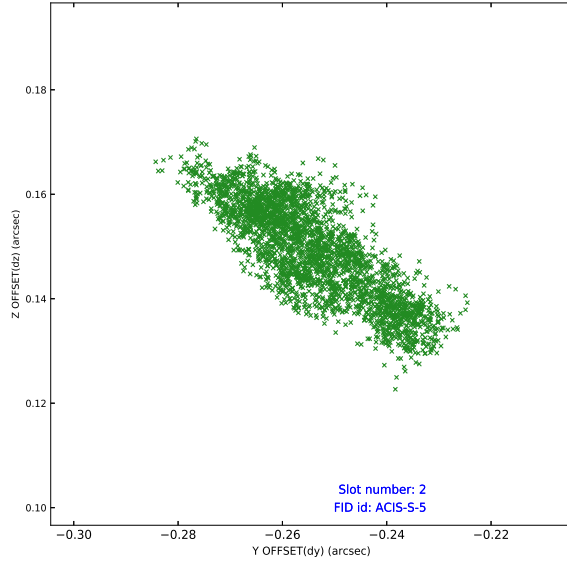
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	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	11.609986240864

A.2 Comments

Joint proposal with HST.

Observation coordinated with HST and VLA.