

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20640 - L2 Version 2
Chandra X-Ray Center

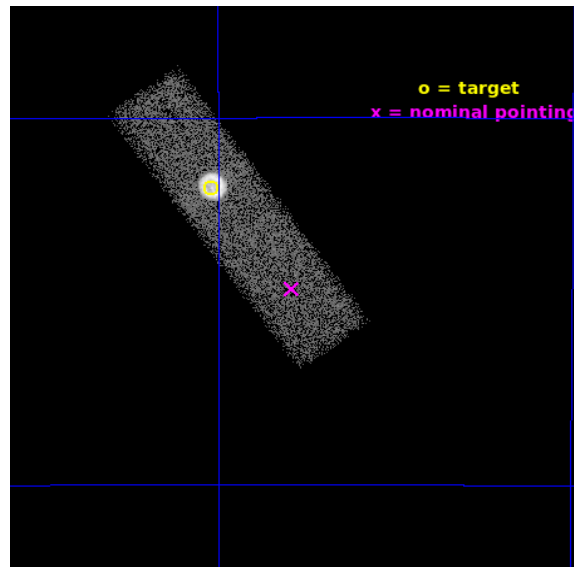
L2 Processing Date : Oct 24 2020

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1 Front

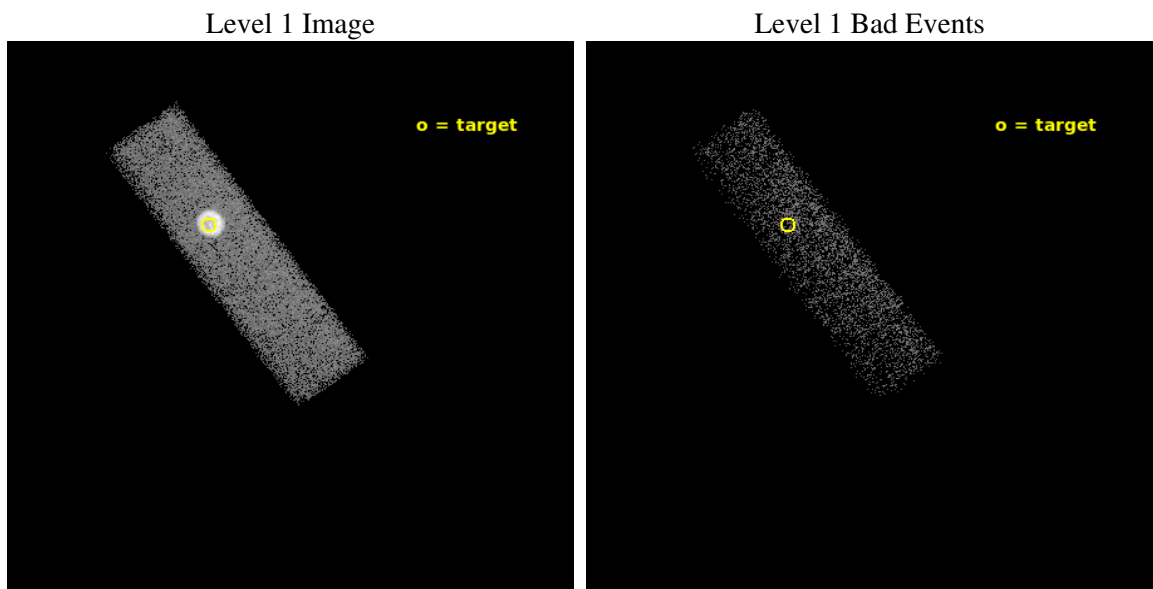
seq_num	590558	Sequence number
obs_id	20640	Observation id
title	AO-19 Calibration Observations of E0102-72	Proposal title
observer	CXC Calibration	Principal investigator
object	E0102-72	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.895866390617	Nominal RA [deg]
dec_nom	-72.077724604844	Nominal Dec [deg]
roll_nom	234.14028064936	Nominal Roll [deg]
revision	2	Processing version of data
ontime	19987.998808622	Sum of GTIs [s]
livetime	19012.649870277	Livetime [s]
ontime7	19987.998808622	Sum of GTIs [s]
l2events	53037	Number of level 2 events



2 OBI

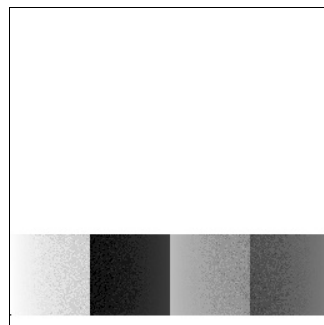
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19924.369000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	19987.998808622	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	19987.998808622	Sum of GTIs [s]
date	2020-10-24T16:46:53	Date and time of file creation	l1events	72265	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

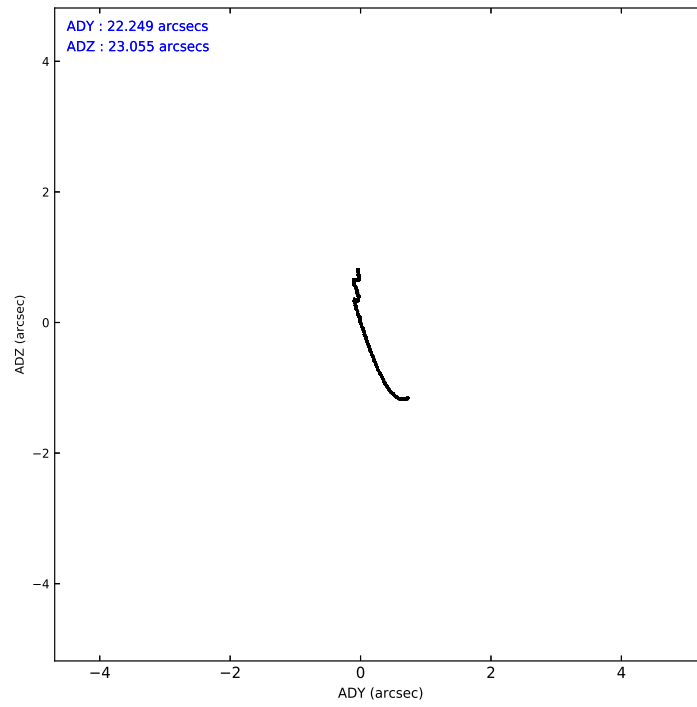
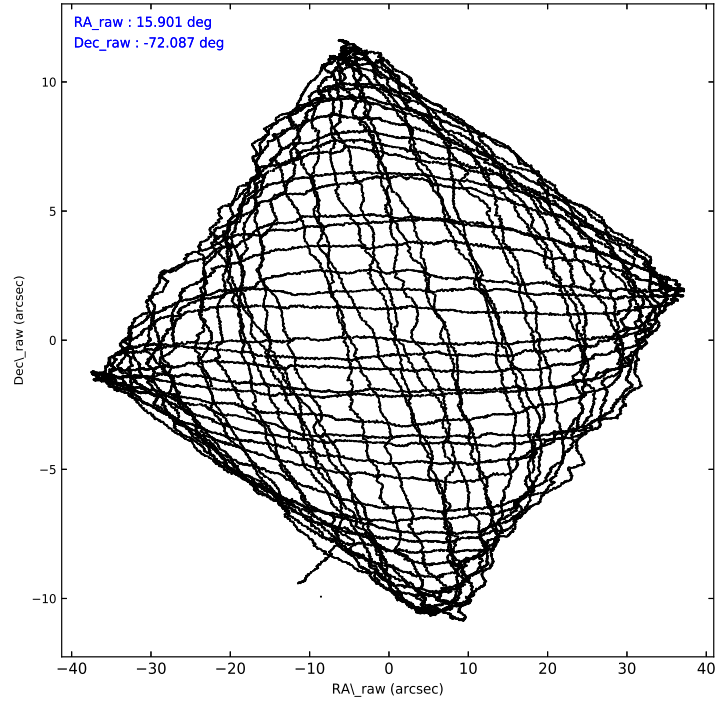
	ccd 7
level 1 events	72265
rejected events	18718
rejected %	25%

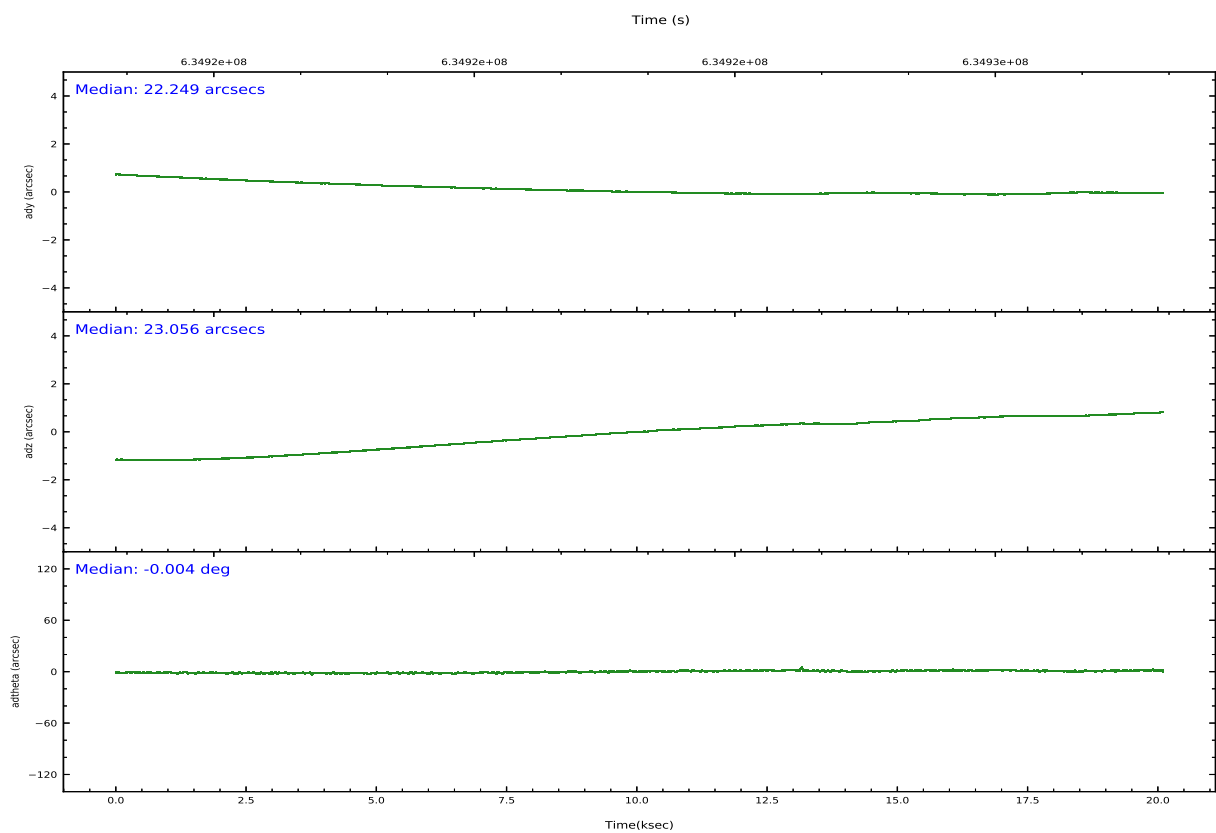
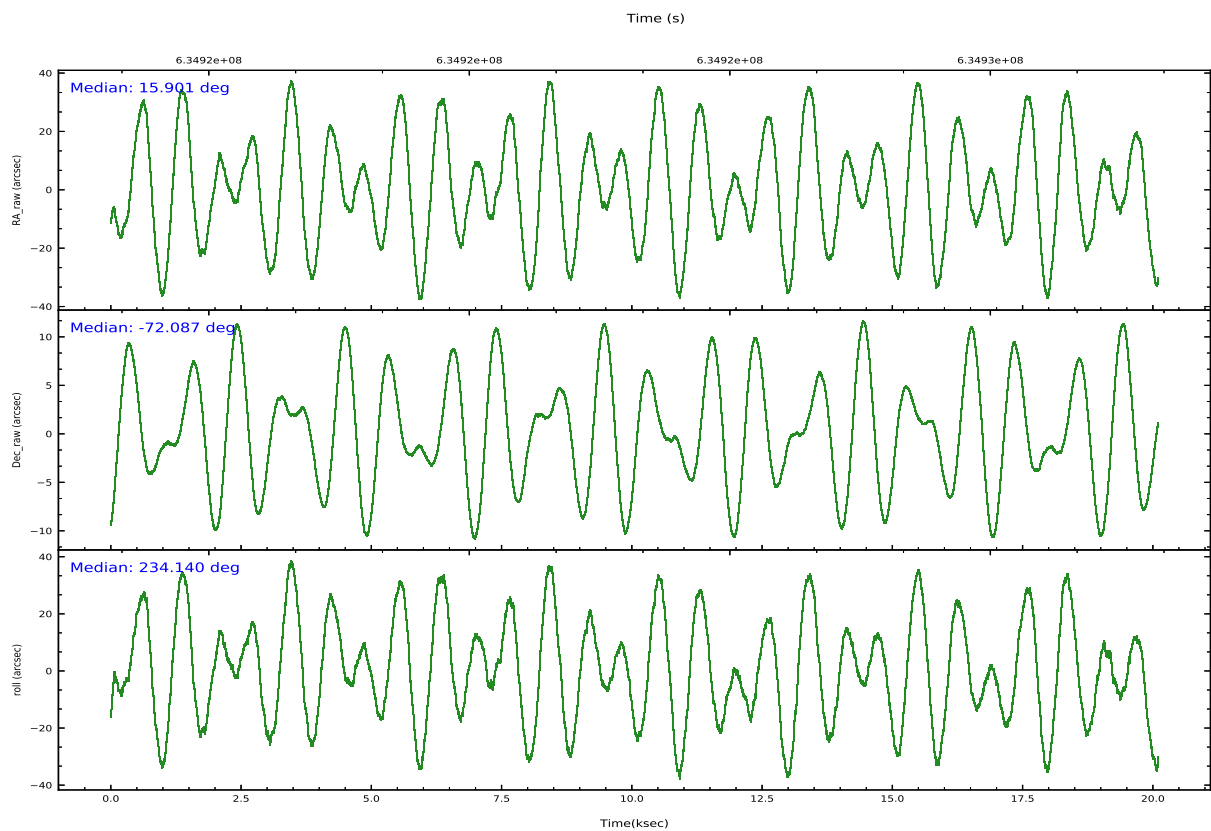
	ccd 7
grade 0 events	12735
	17%
grade 1 events	78
	0%
grade 2 events	13466
	18%
grade 3 events	6325
	8%
grade 4 events	6281
	8%
grade 5 events	4091
	5%
grade 6 events	14744
	20%
grade 7 events	14545
	20%

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	15.908713	15.895866390617	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-72.059500	-72.07772460484399	Subarray start row	42	42
[deg] Pointing Roll	233.993715	234.14028064936	Subarray row count	256	256
[s] Window start time (MET)	633830469.184000	633830469.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	638841669.184000	638841669.184000	[s] Primary exposure time	0.000000	0.8
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-181.447523	-181.4531066829821			
[mm] SIM translation stage offset	-8.685	-8.679415900025731			
[s] Observation start time (MET)	634913296.184000	634912123.88586			
Observation start date	2018-02-13T12:47:07	2018-02-13T12:28:43			
[s] Observation end time (MET)	634933220.184000	634934165.48716			
Observation end date	2018-02-13T18:19:11	2018-02-13T18:36:05			
Read mode	TIMED	TIMED			

2.3 Aspect



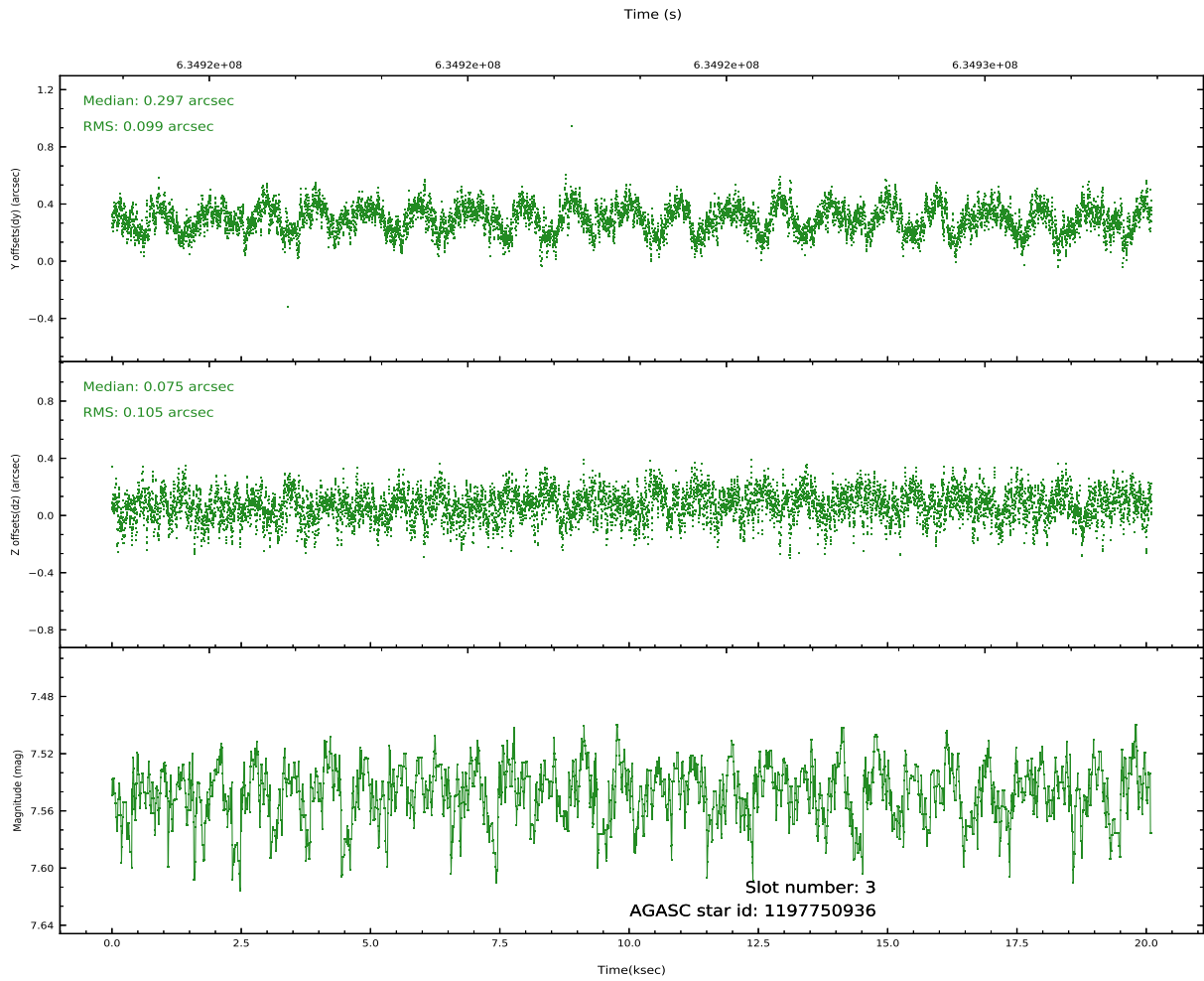
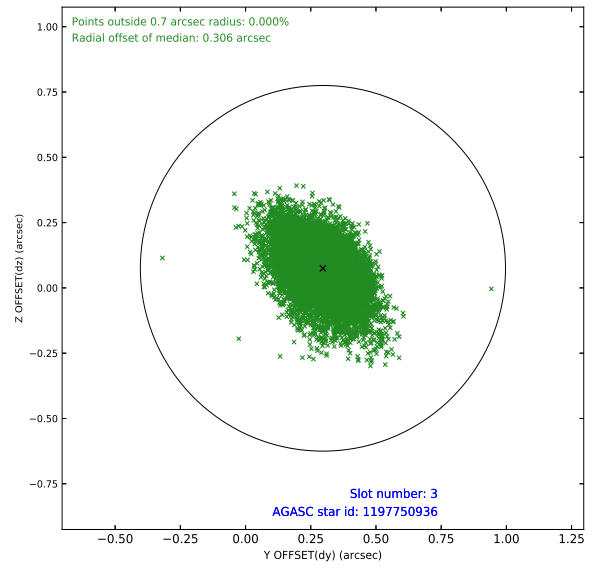
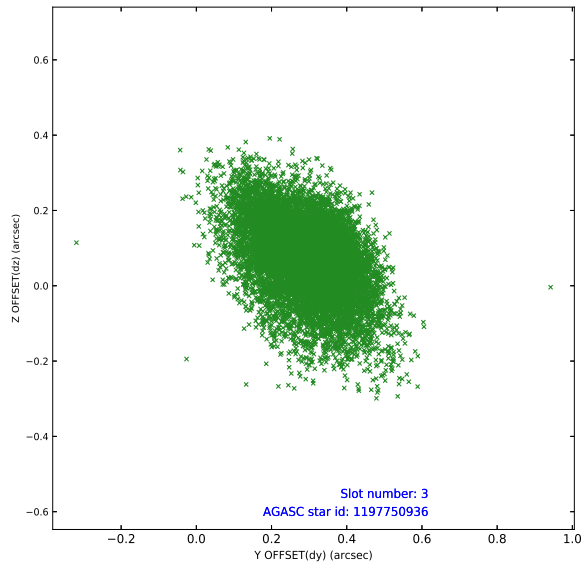


Slot Statistics

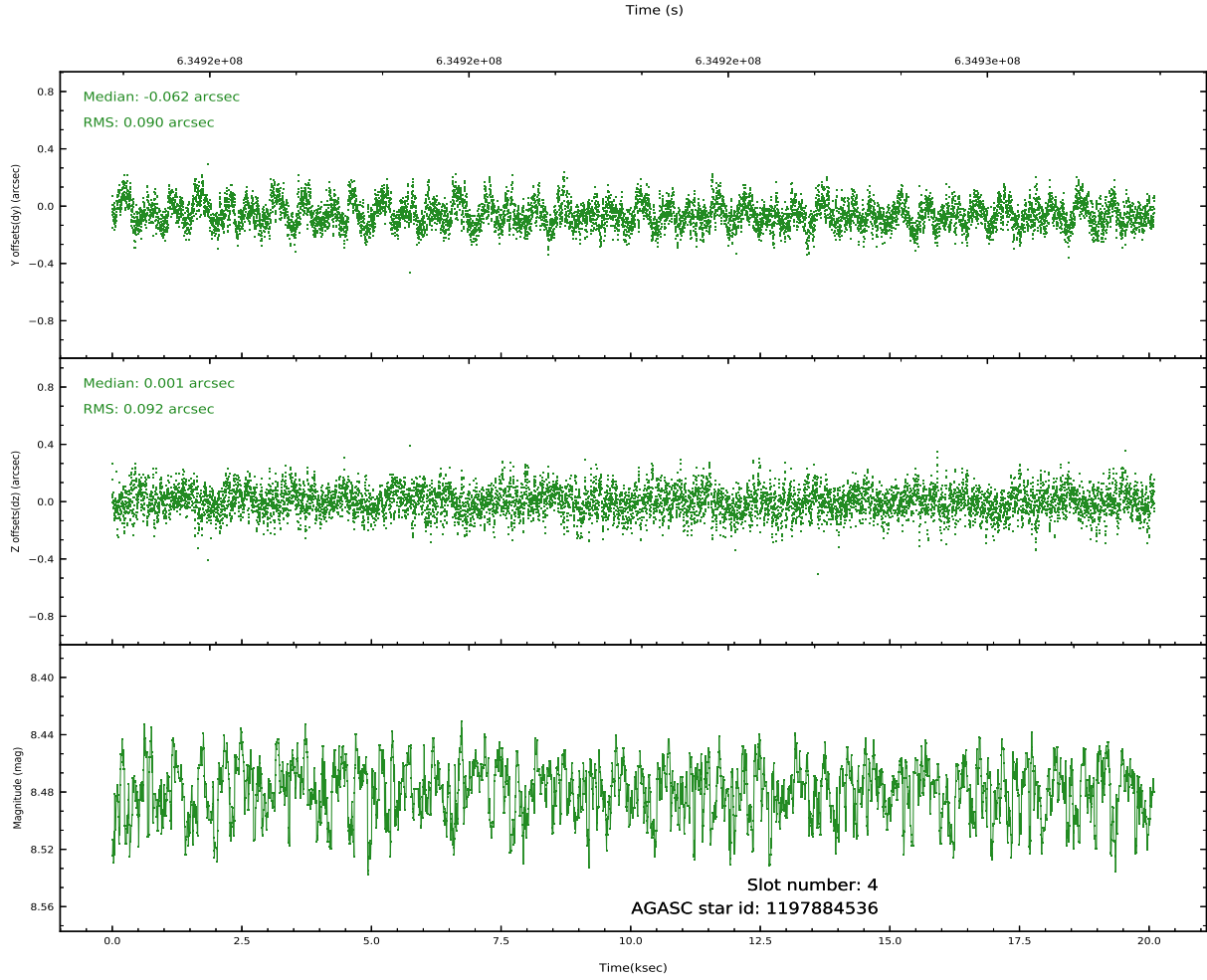
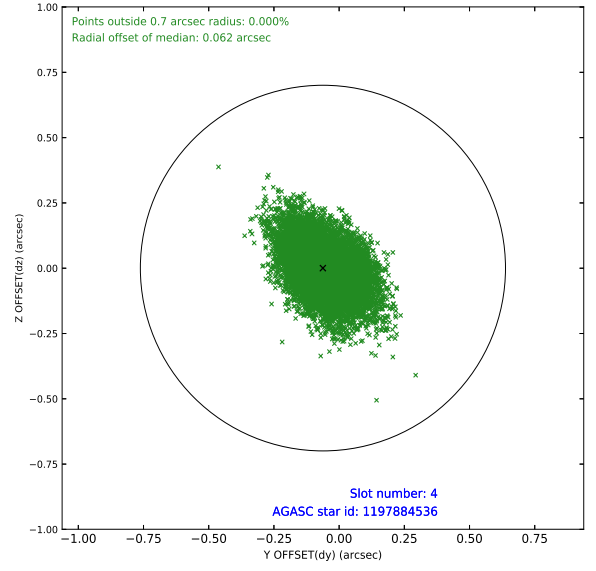
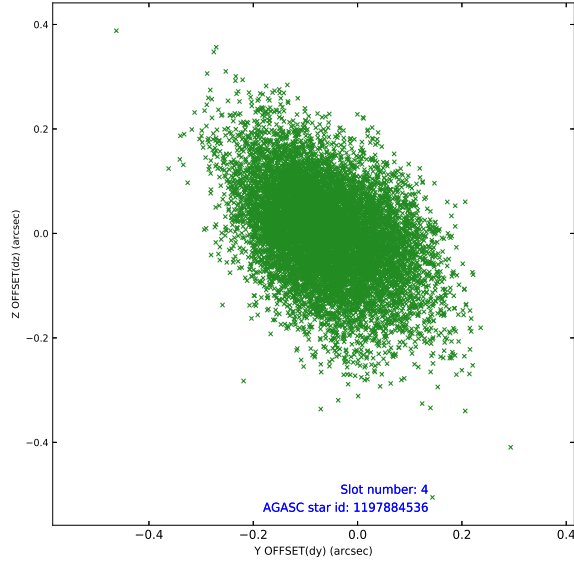
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	4903	1.000	0.165	0.067	0.009	0.017	0.000000	0.000000	921.25	-1918
1	FID		ACIS-S-2	7.08	4903	1.000	-0.213	-0.052	0.026	0.037	0.000000	0.000000	-774.93	-1923
2	FID		ACIS-S-6	7.40	4903	1.000	0.030	-0.013	0.023	0.032	0.000000	0.000000	386.73	622
3	GUIDE	used	1197750936	7.55	9806	1.000	0.297	0.075	0.151	0.253	15.387940	-71.549550	-1132.79	-1557
4	GUIDE	used	1197884536	8.48	9801	1.000	-0.062	0.001	0.134	0.228	17.160729	-71.835289	-1467.10	670
5	GUIDE	used	1197885328	7.24	9806	1.000	0.051	0.218	0.131	0.219	16.283090	-71.733943	-1196.75	-345
6	GUIDE	used	1198189696	7.36	9805	1.000	-0.251	-0.141	0.125	0.223	15.223750	-72.697522	2292.58	760
7	GUIDE	used	1197884712	8.29	9797	1.000	-0.052	-0.138	0.185	0.326	16.087398	-72.252690	448.21	567

2.4 Star Slots

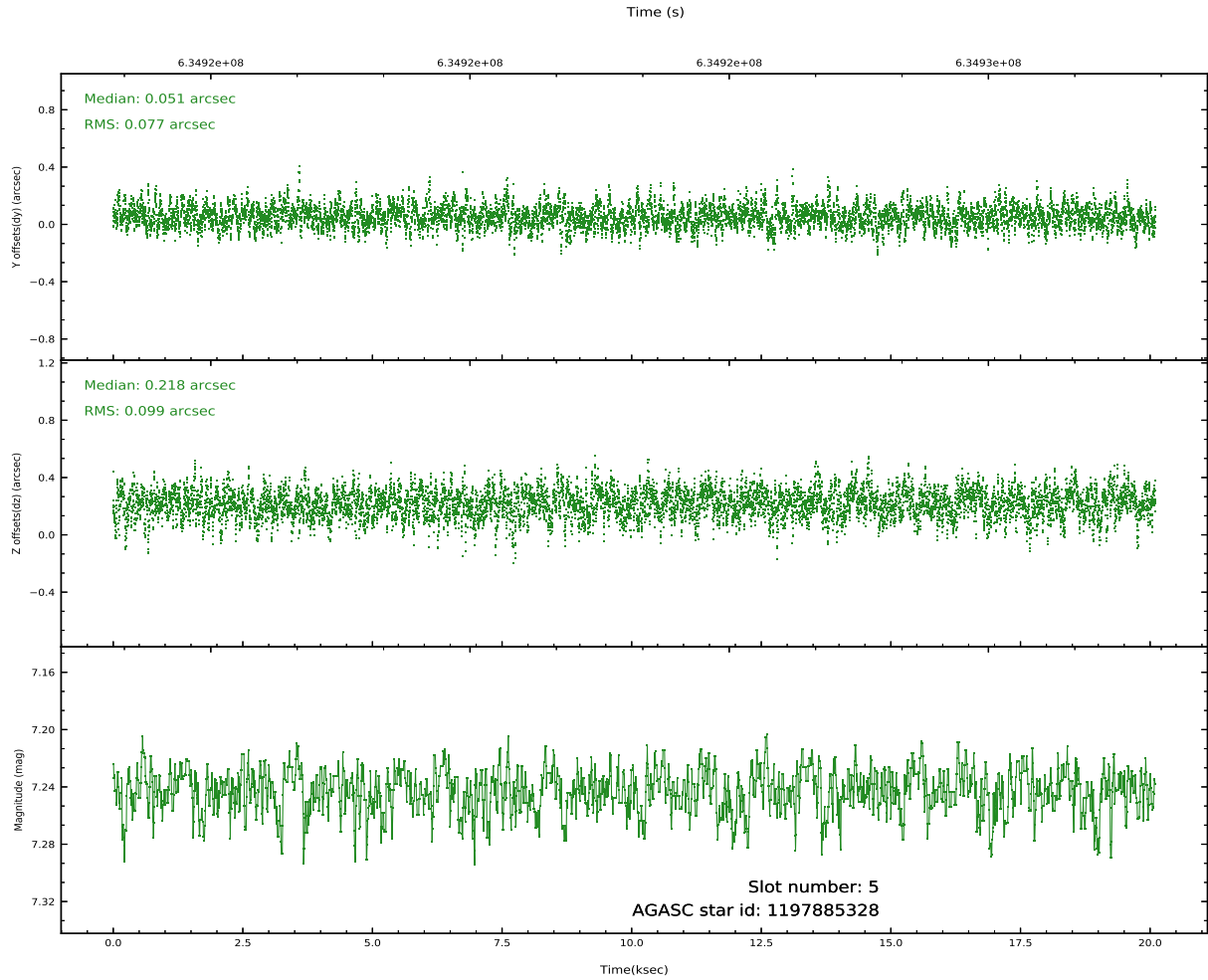
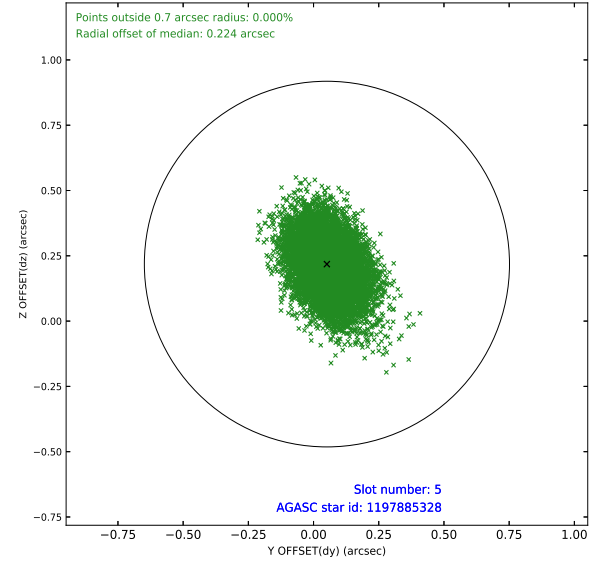
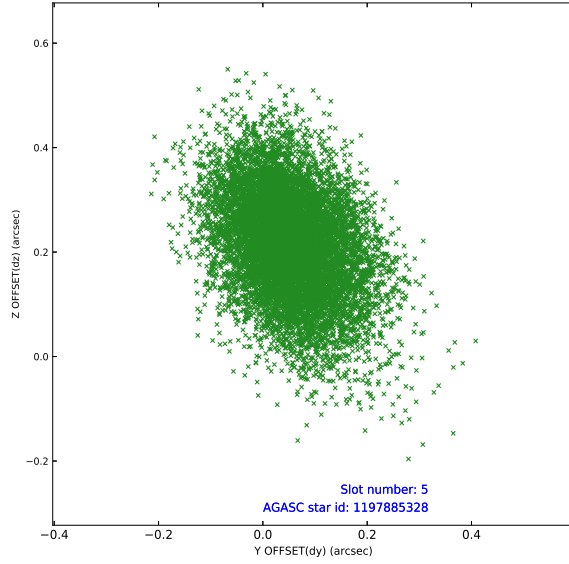
2.4.1 Slot 3



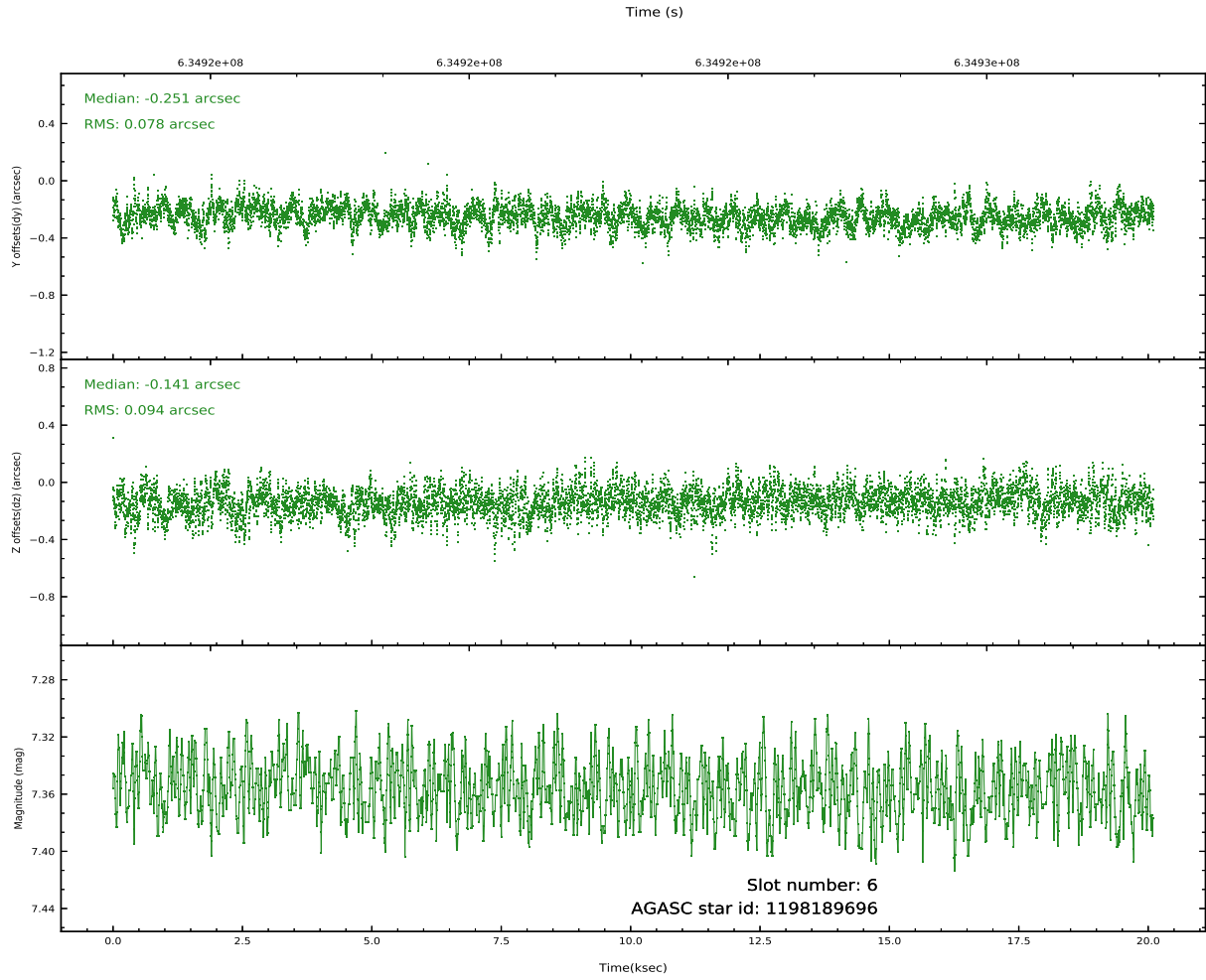
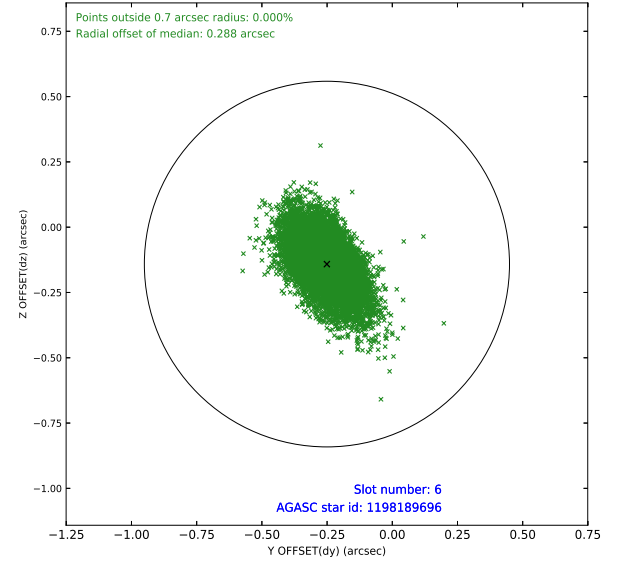
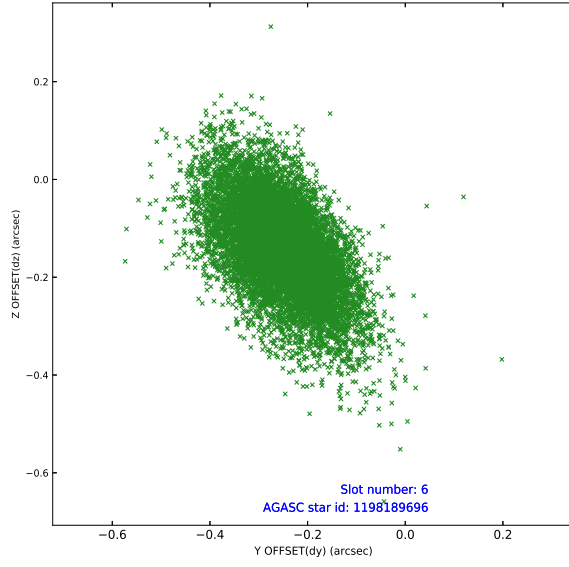
2.4.2 Slot 4



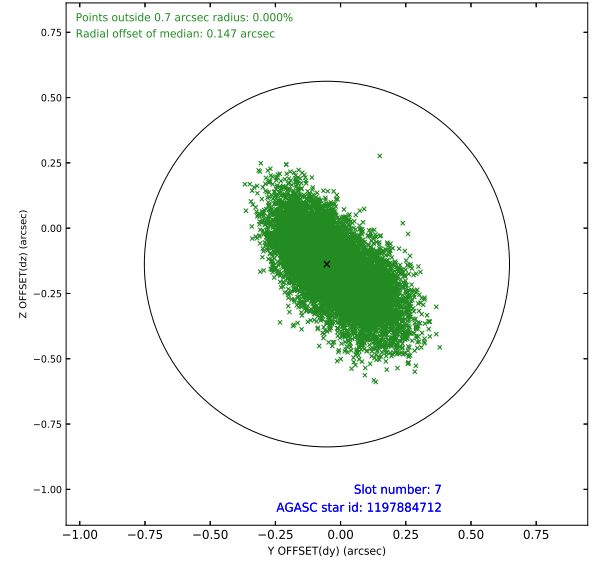
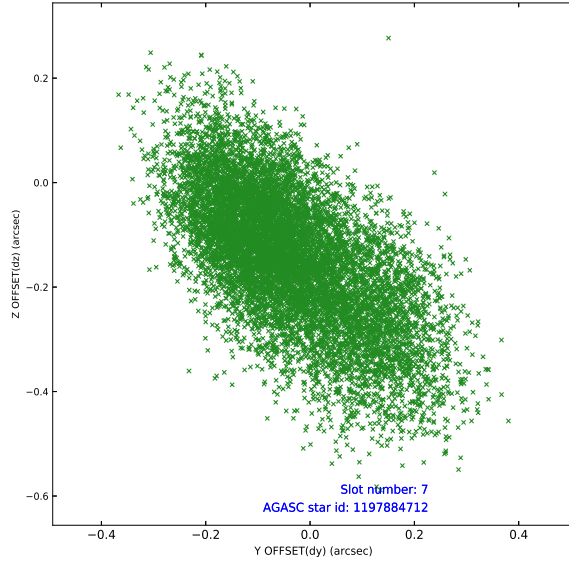
2.4.3 Slot 5



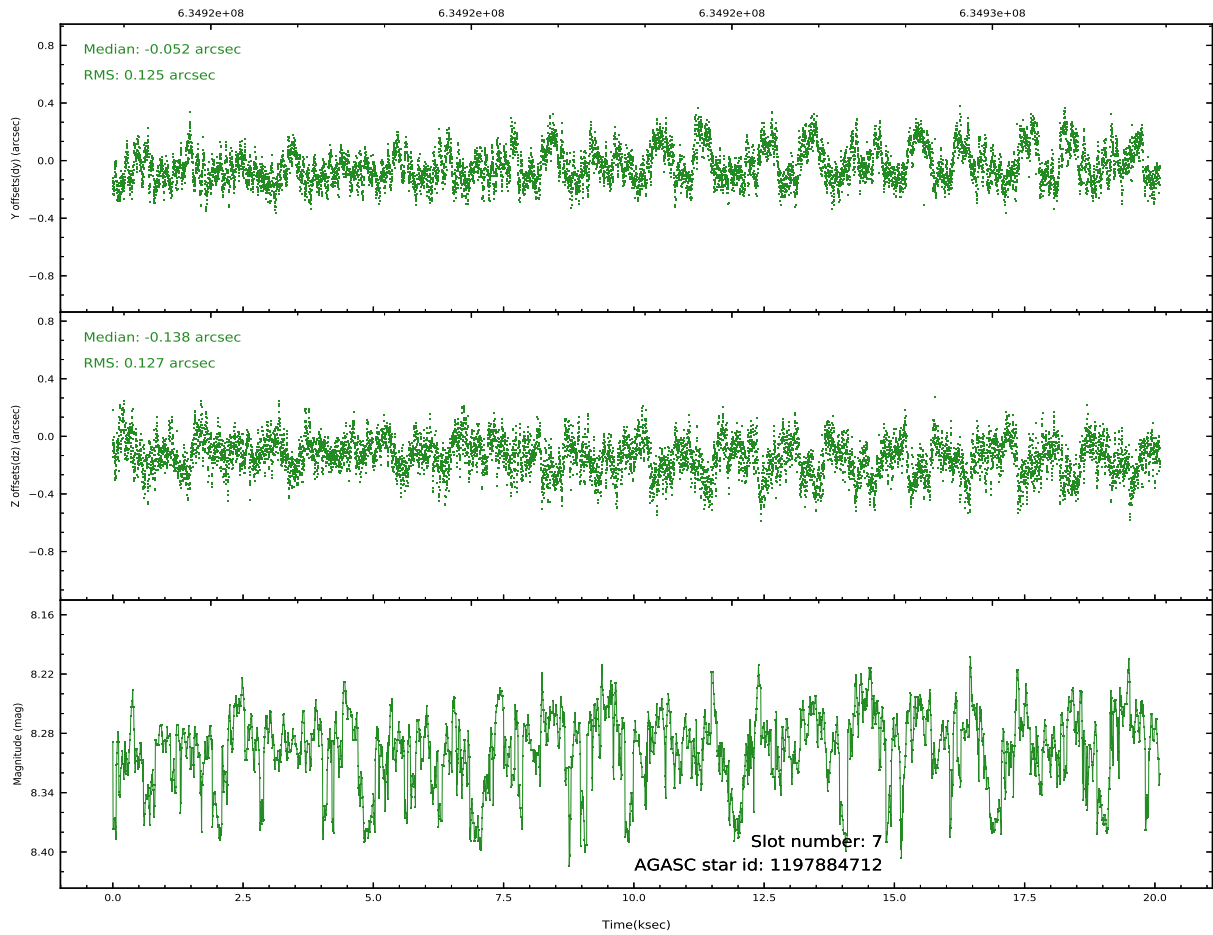
2.4.4 Slot 6



2.4.5 Slot 7

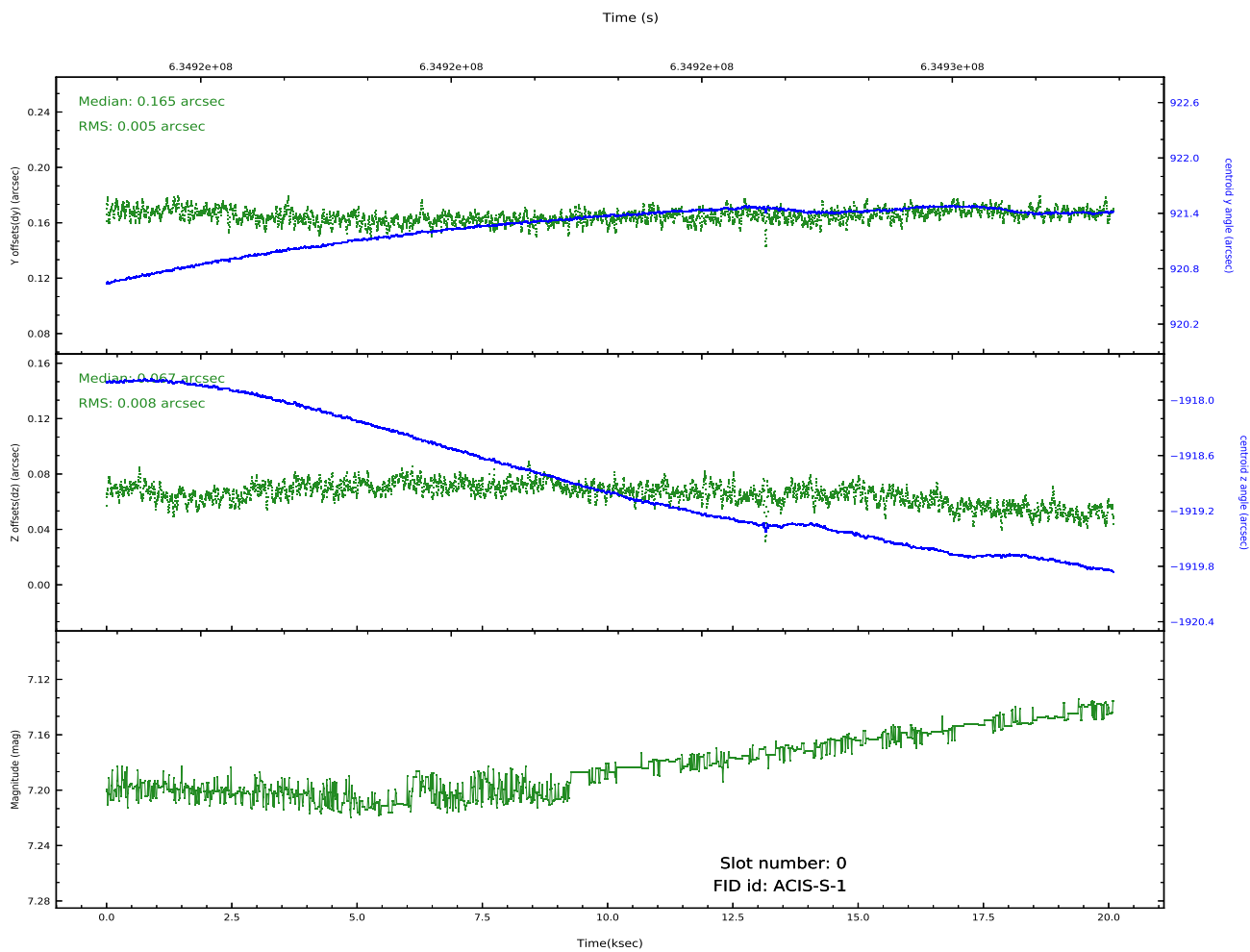
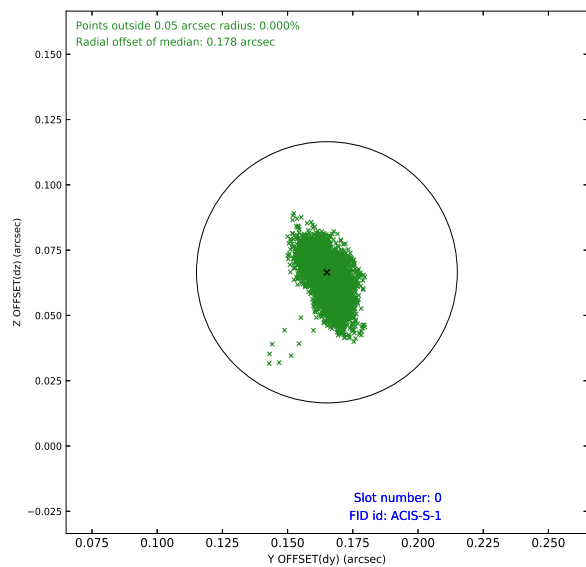
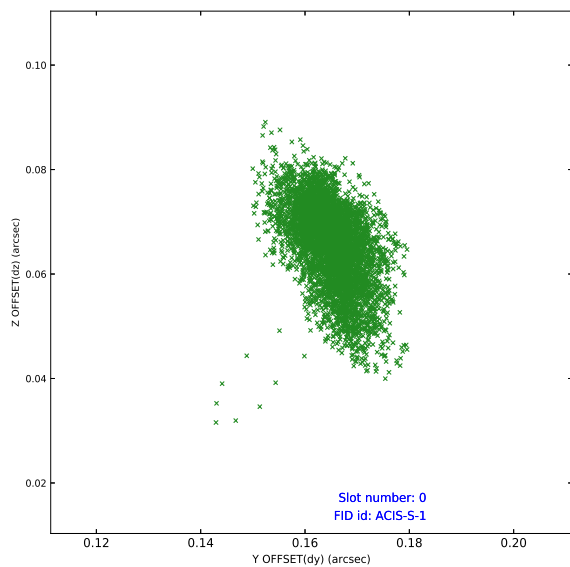


Time (s)

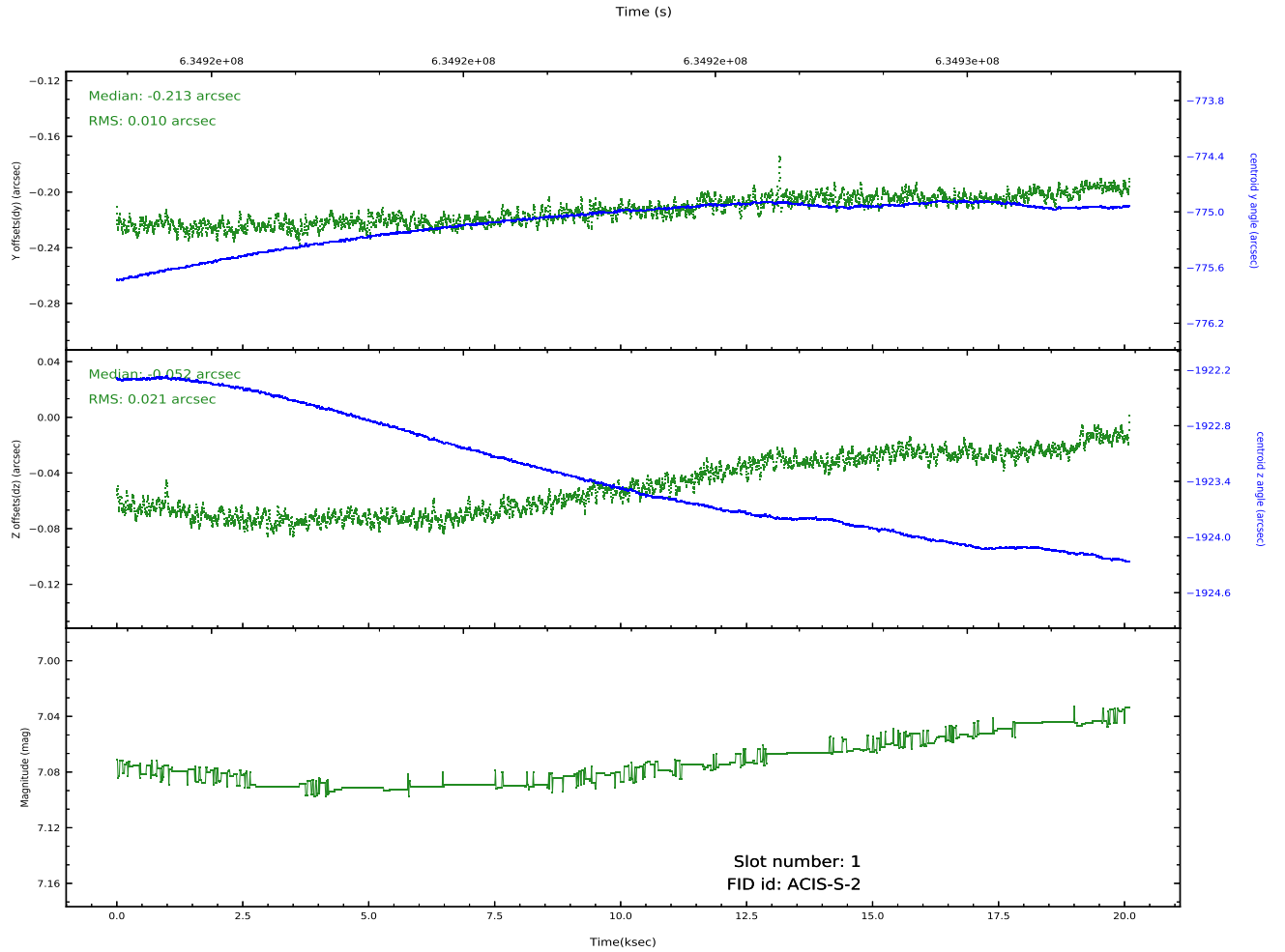
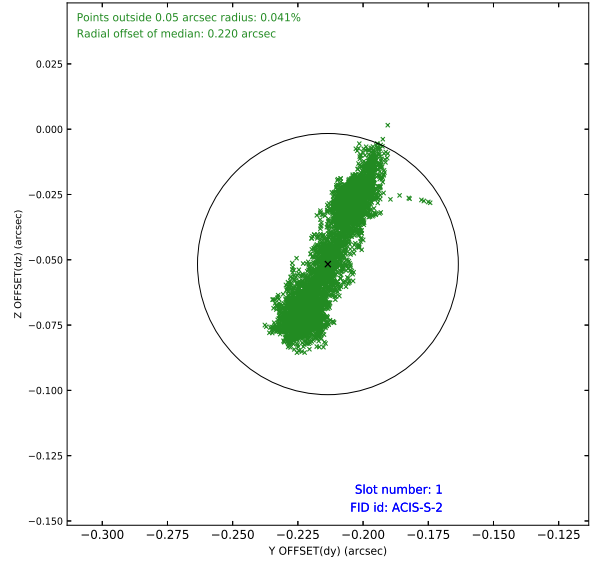
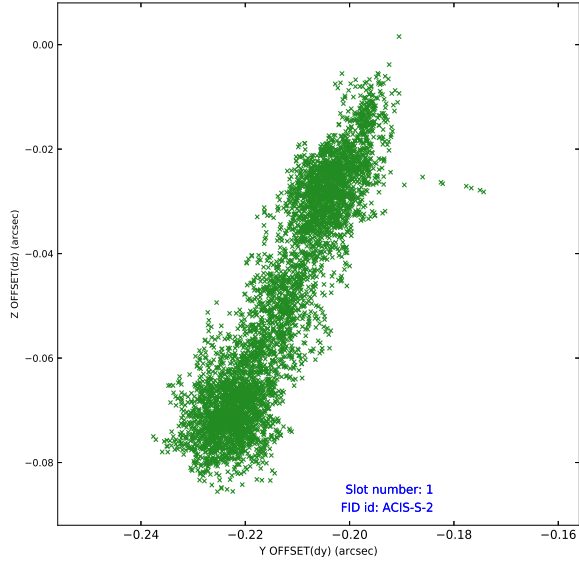


2.5 FID Slots

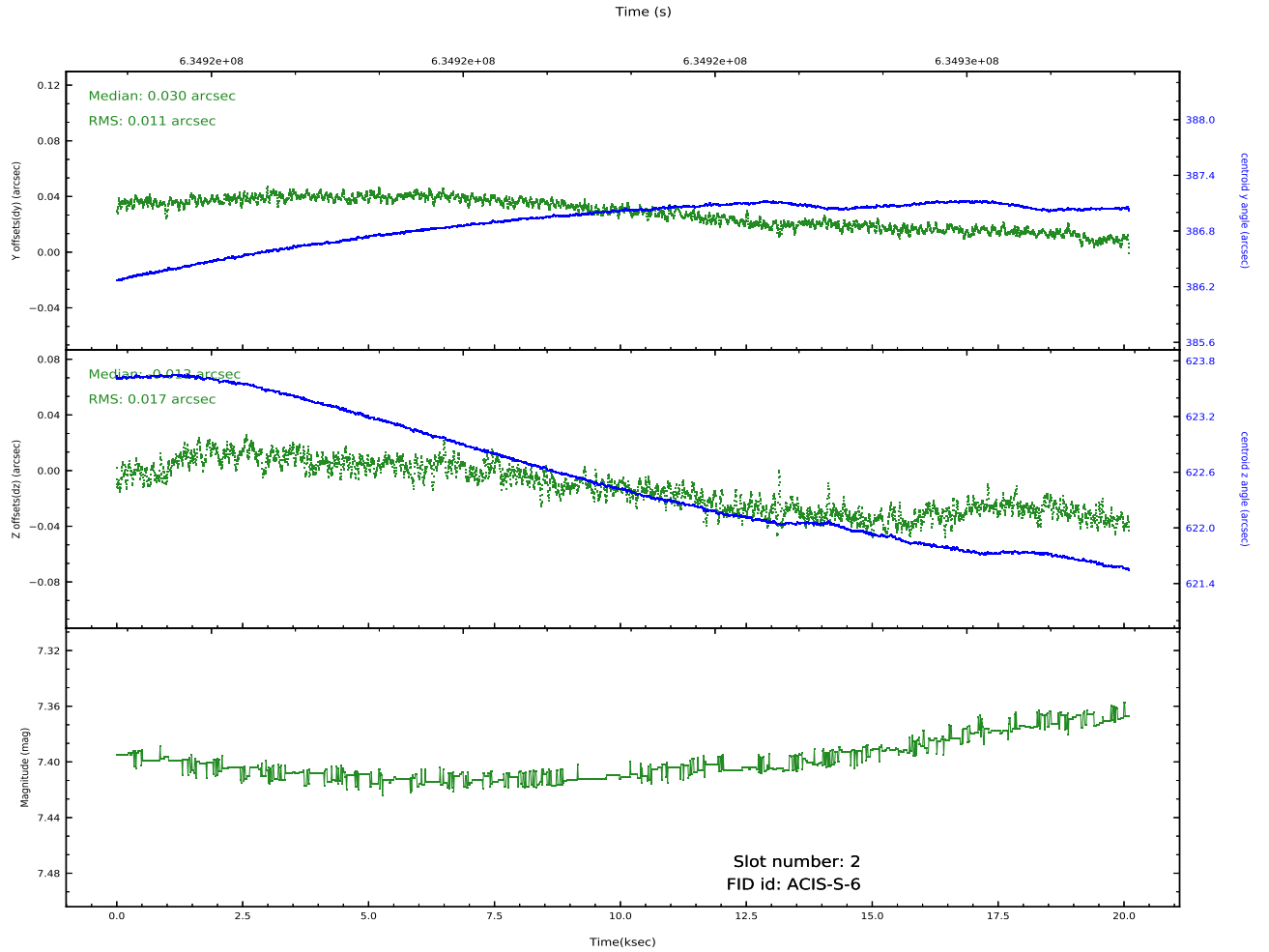
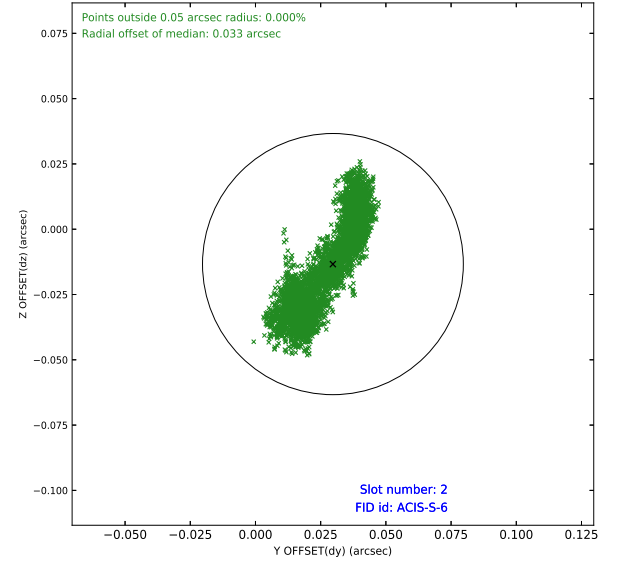
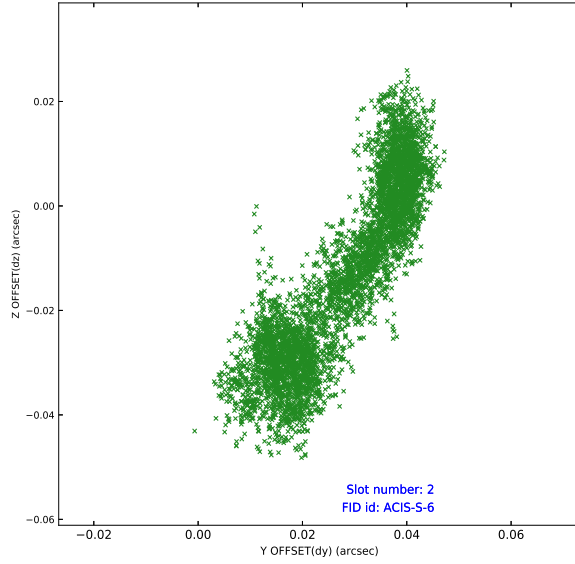
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.987998808622

A.2 Comments

Window constraint was met.