

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20638 - L2 Version 2
Chandra X-Ray Center

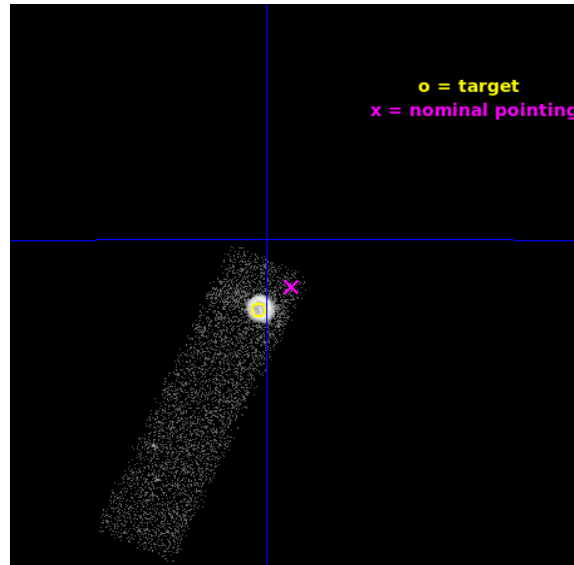
L2 Processing Date : Oct 24 2020

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1 Front

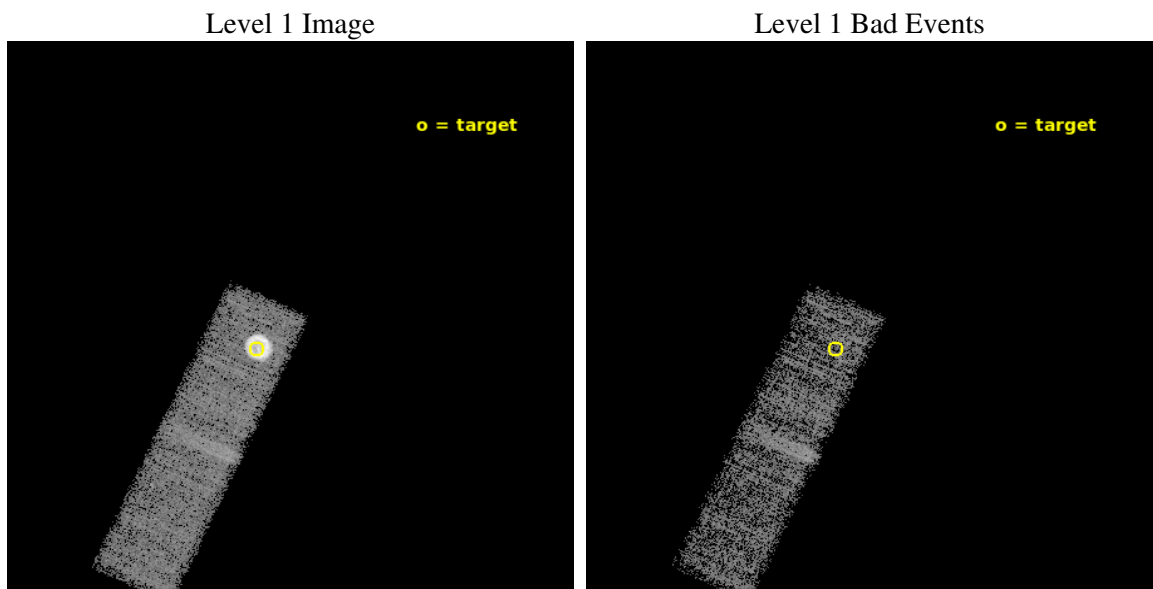
seq_num	590556	Sequence number
obs_id	20638	Observation id
title	AO-19 Calibration Observations of E0102-72	Proposal title
observer	CXC Calibration	Principal investigator
object	E0102-72	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.96362507229	Nominal RA [deg]
dec_nom	-72.021553248034	Nominal Dec [deg]
roll_nom	204.91093455242	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25060.757466078	Sum of GTIs [s]
livetime	23837.874504022	Livetime [s]
ontime3	25060.757466078	Sum of GTIs [s]
l2events	38540	Number of level 2 events



2 OBI

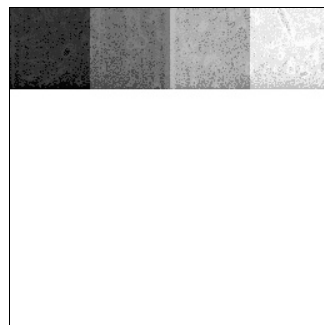
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 3



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	25060.757466078	Sum of GTIs [s]
caldsver	4.9.3	 	ontime3	25060.757466078	Sum of GTIs [s]
date	2020-10-25T03:01:46	Date and time of file creation	l1events	86140	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

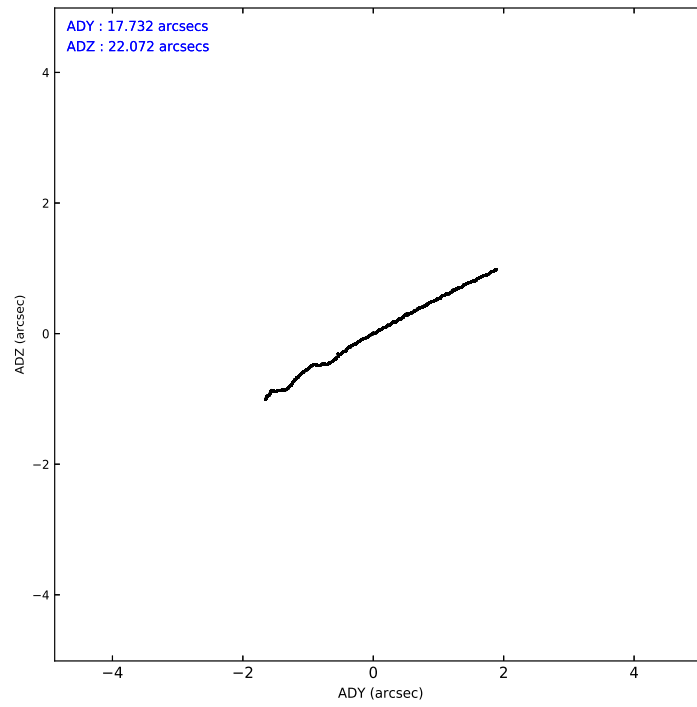
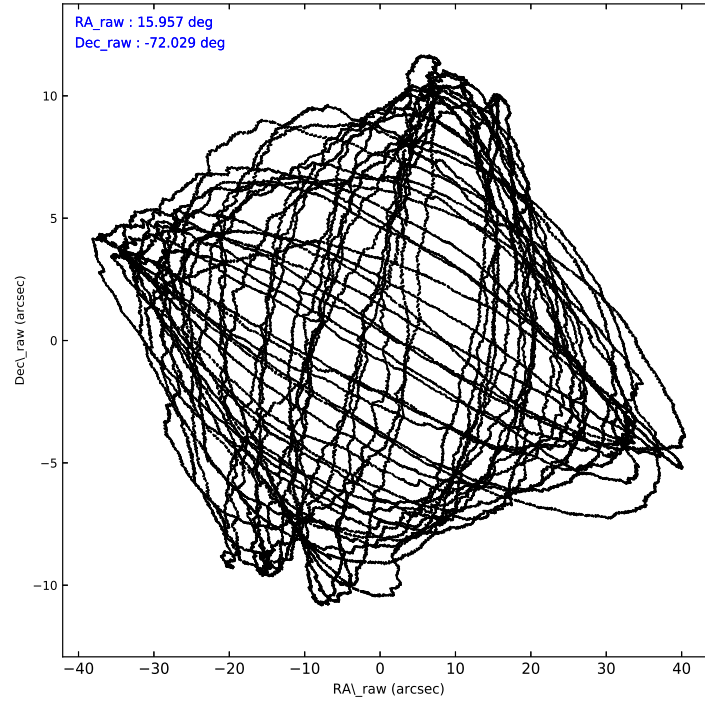
	ccd 3
level 1 events	86140
rejected events	46721
rejected %	54%

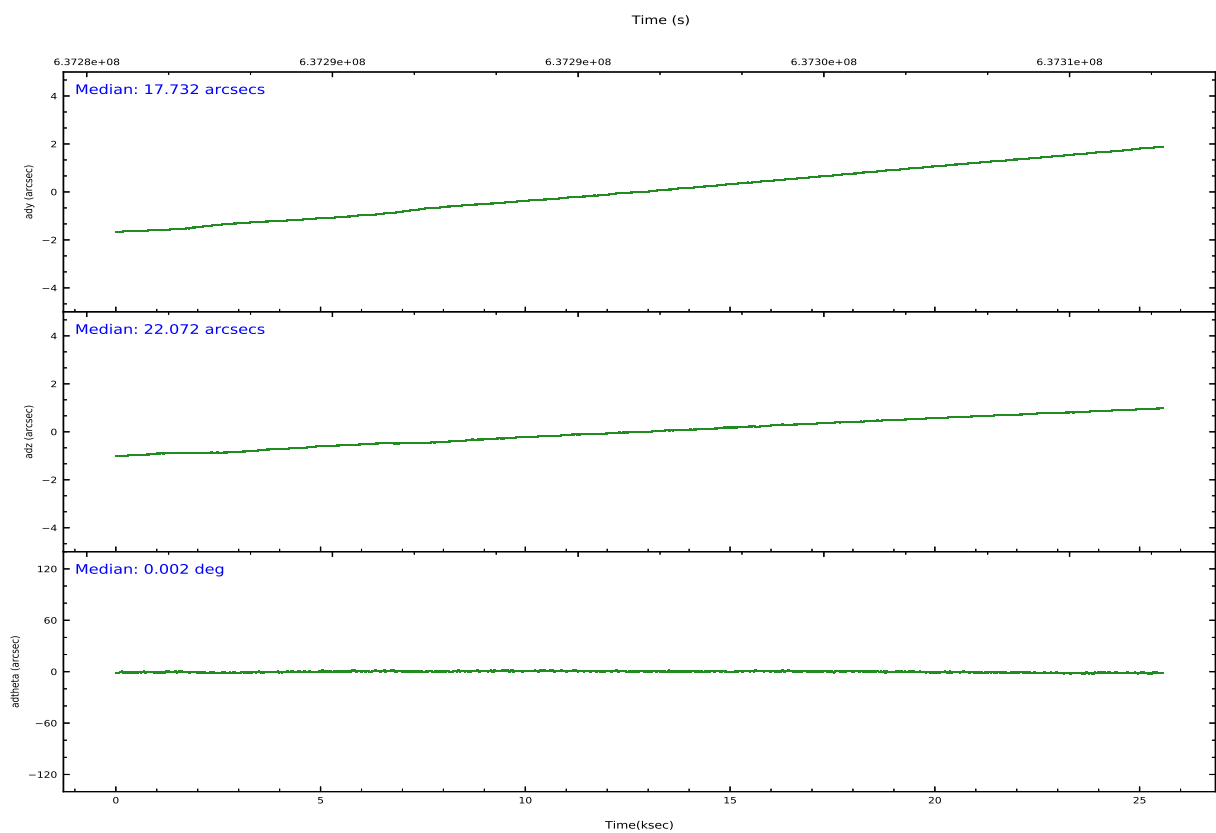
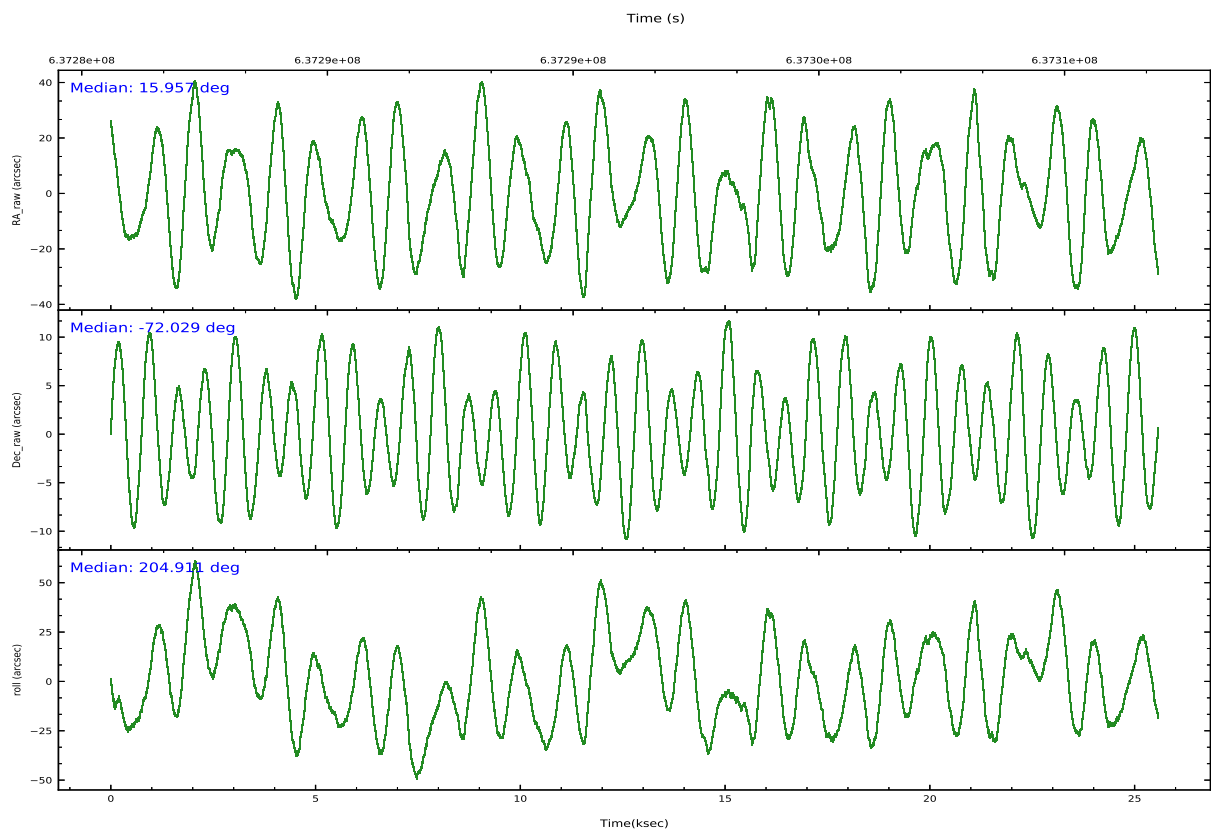
	ccd 3
grade 0 events	31913
	37%
grade 1 events	110
	0%
grade 2 events	3306
	3%
grade 3 events	1509
	1%
grade 4 events	1485
	1%
grade 5 events	2002
	2%
grade 6 events	1206
	1%
grade 7 events	44609
	51%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-3	ACIS-3	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	16.008341	15.96362507229	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-72.006896	-72.021553248034	Subarray start row	768	768
[deg] Pointing Roll	204.760033	204.91093455242	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	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	637283286.184000	637282507.76307			
Observation start date	2018-03-12T23:06:57	2018-03-12T22:55:07			
[s] Observation end time (MET)	637308286.184000	637309159.30215			
Observation end date	2018-03-13T06:03:37	2018-03-13T06:19:19			
Read mode	TIMED	TIMED			

2.3 Aspect



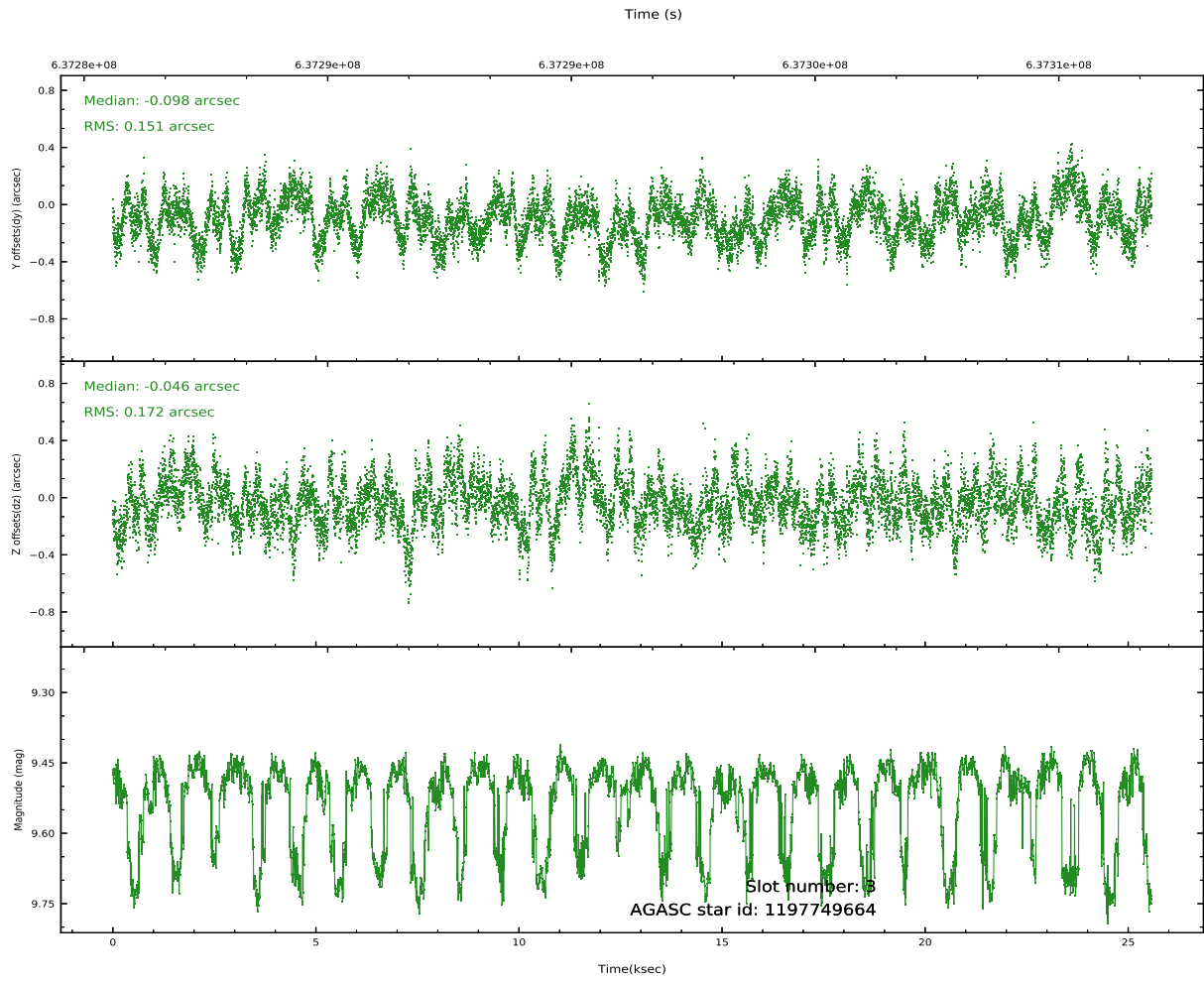
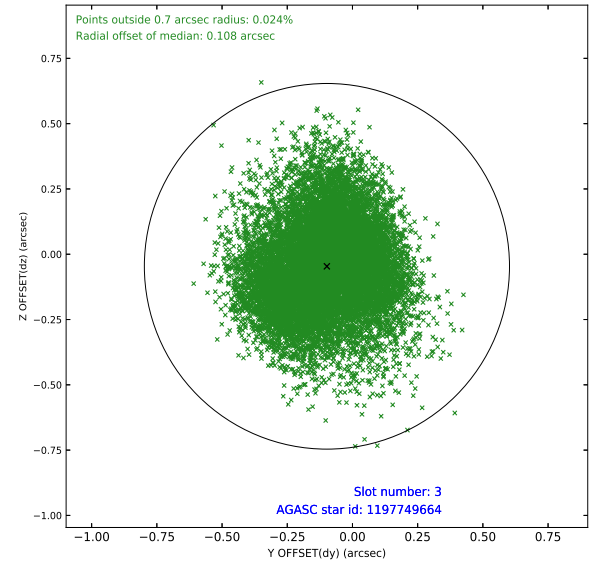
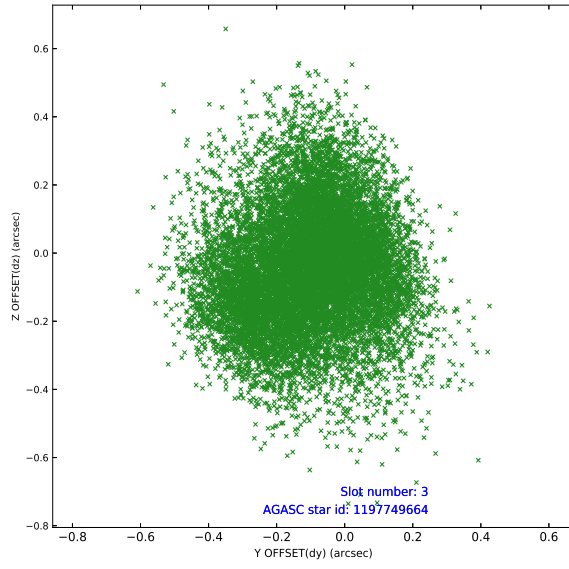


Slot Statistics

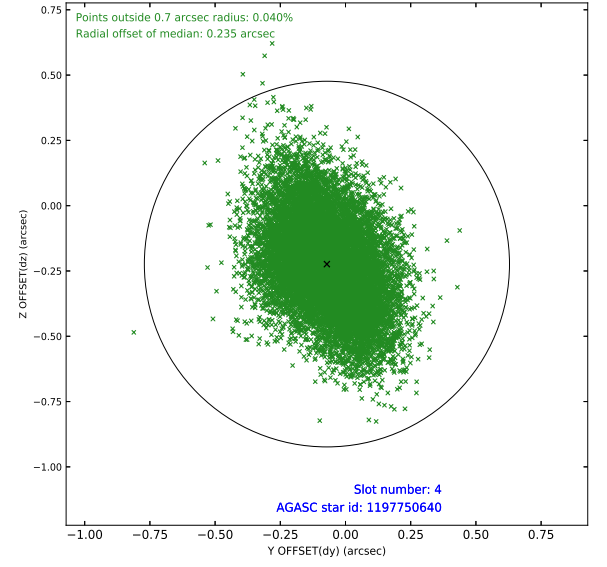
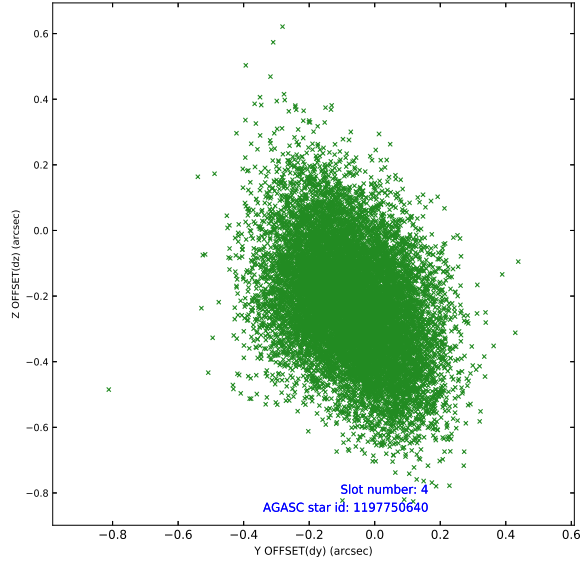
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.07	6237	1.000	0.179	-0.096	0.031	0.060	0.000000	0.000000	921.72	-846
1	FID		ACIS-I-5	7.06	6238	1.000	-0.260	0.168	0.015	0.022	0.000000	0.000000	-1826.62	1051
2	FID		ACIS-I-6	7.07	6237	1.000	-0.009	-0.006	0.032	0.049	0.000000	0.000000	387.15	1696
3	GUIDE	used	1197749664	9.51	12446	1.000	-0.098	-0.046	0.247	0.387	15.809015	-72.366369	739.35	1084
4	GUIDE	used	1197750640	9.71	12463	1.000	-0.071	-0.224	0.229	0.382	15.758835	-72.088048	373.93	150
5	GUIDE	used	1197750936	7.55	12474	1.000	0.170	0.115	0.191	0.302	15.387940	-71.549550	-45.29	-1786
6	GUIDE	used	1197885104	9.29	12467	1.000	-0.079	0.264	0.206	0.374	17.845067	-72.189368	-1547.04	1472
7	GUIDE	used	1197885232	9.97	12461	1.000	0.080	-0.099	0.276	0.437	16.899341	-72.228516	-551.86	1141

2.4 Star Slots

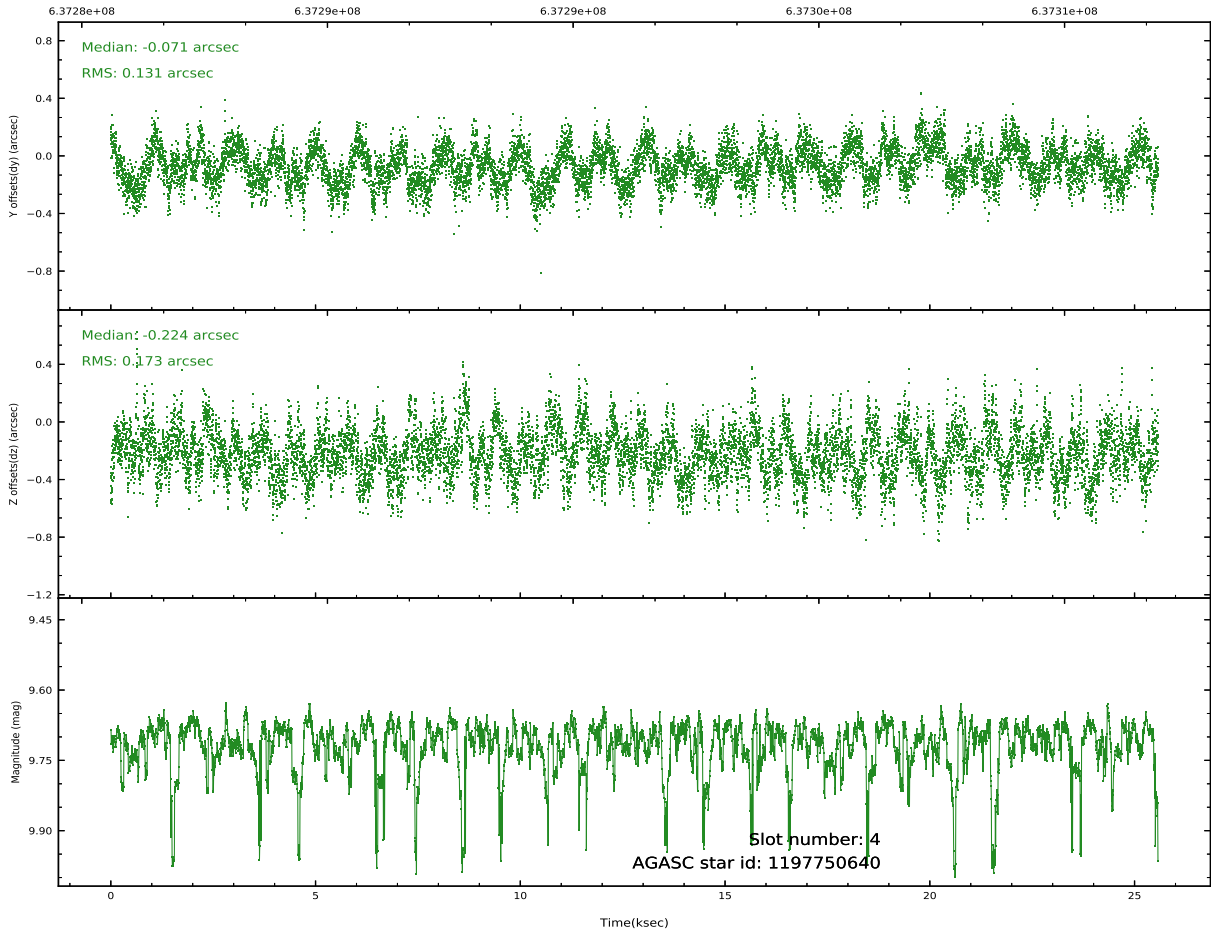
2.4.1 Slot 3



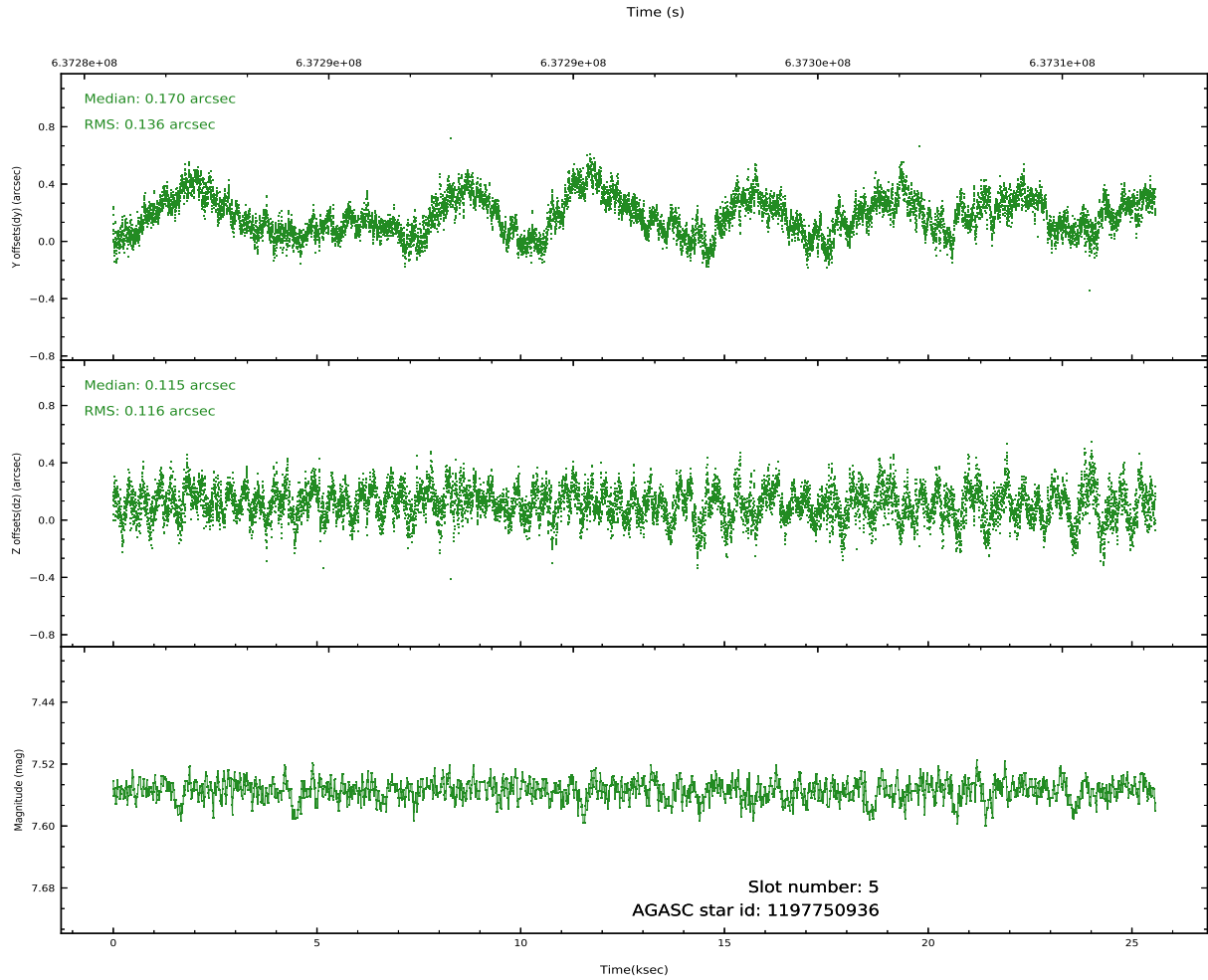
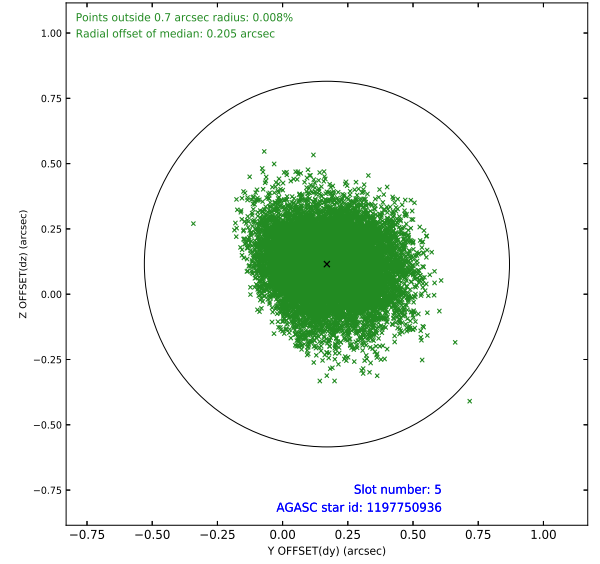
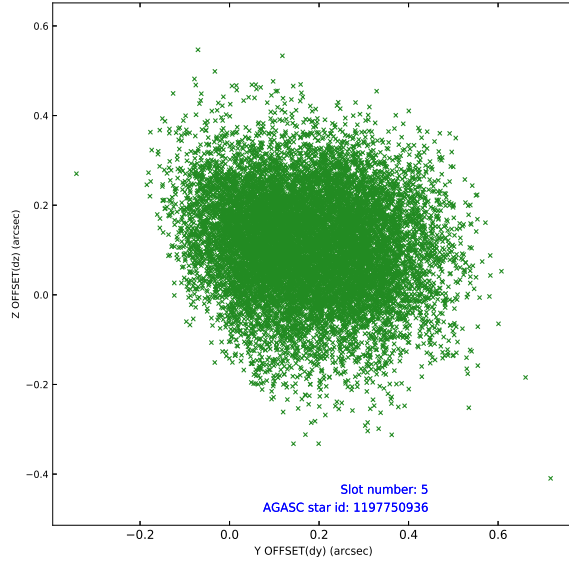
2.4.2 Slot 4



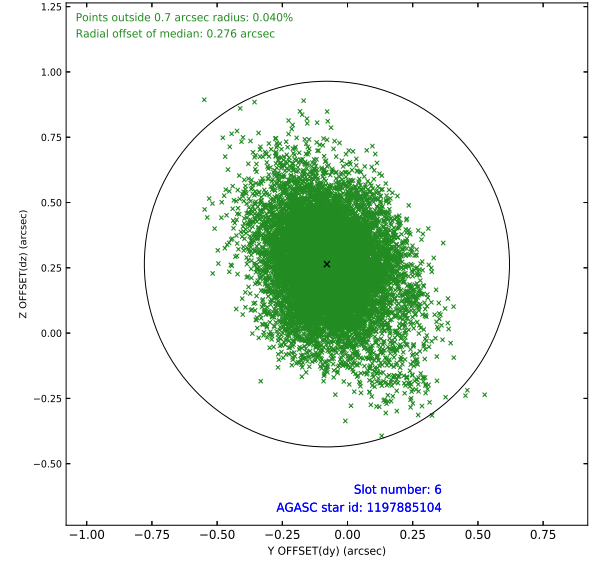
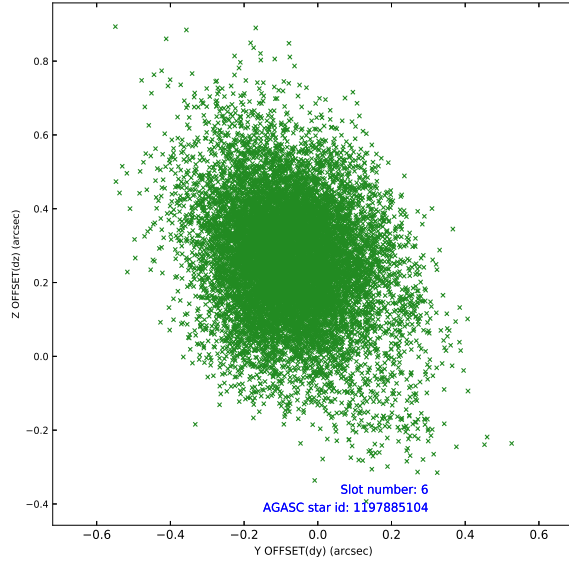
Time (s)



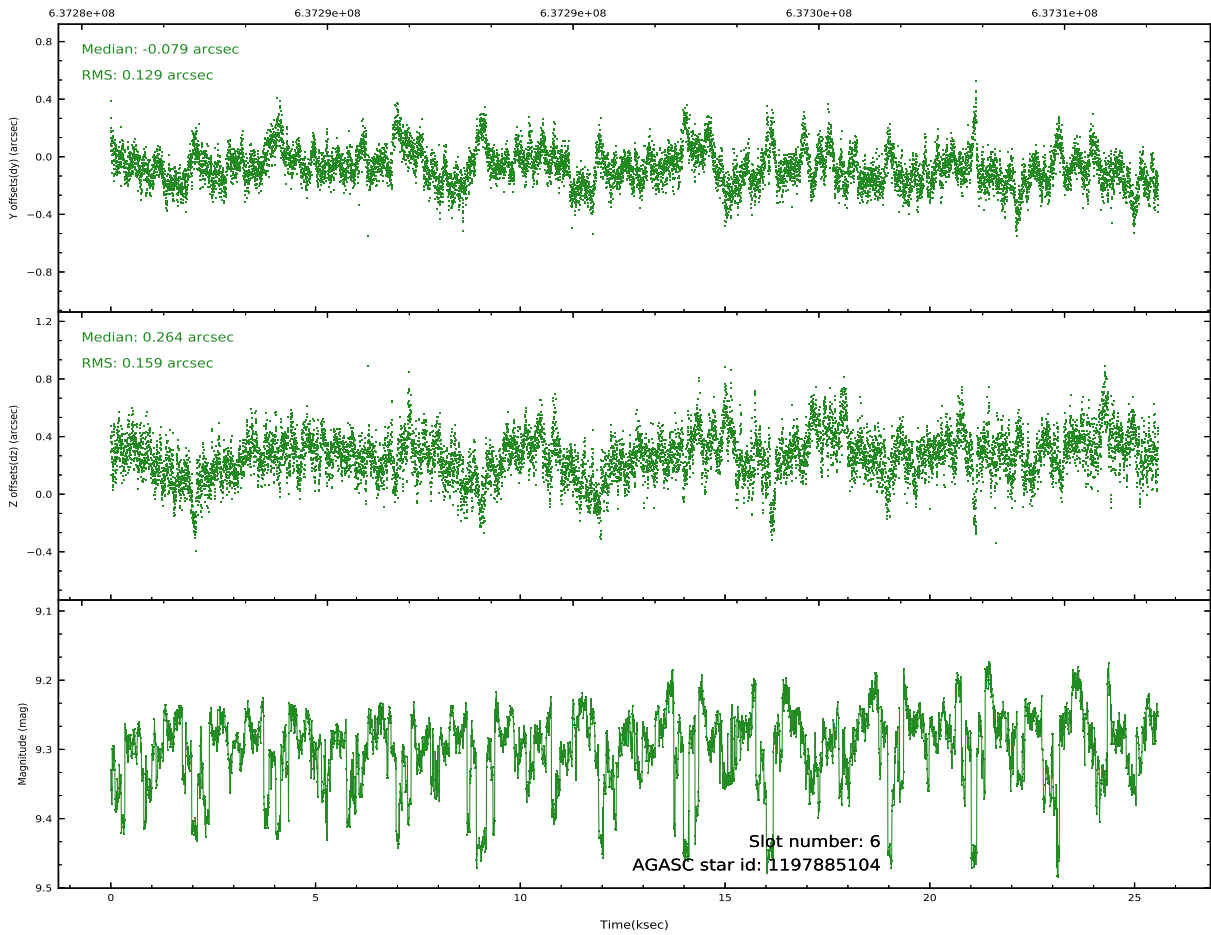
2.4.3 Slot 5



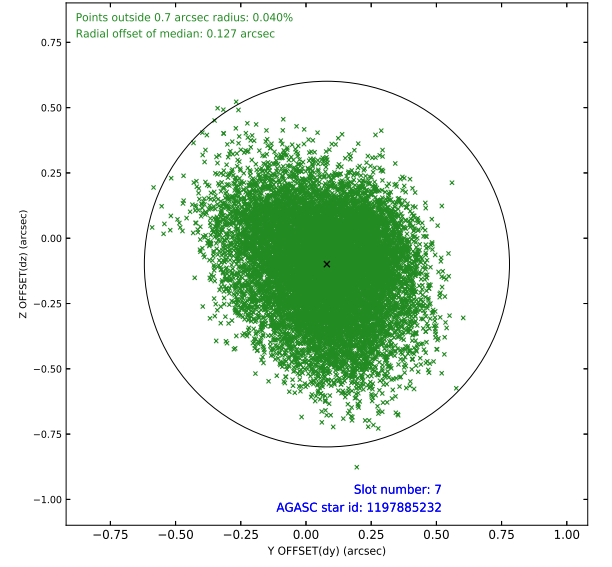
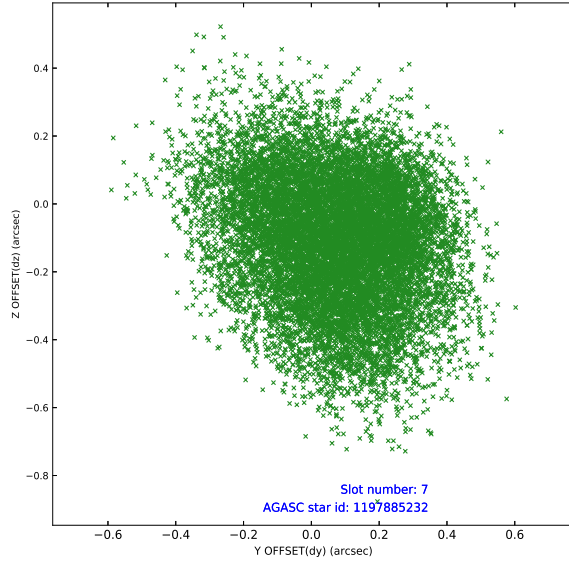
2.4.4 Slot 6



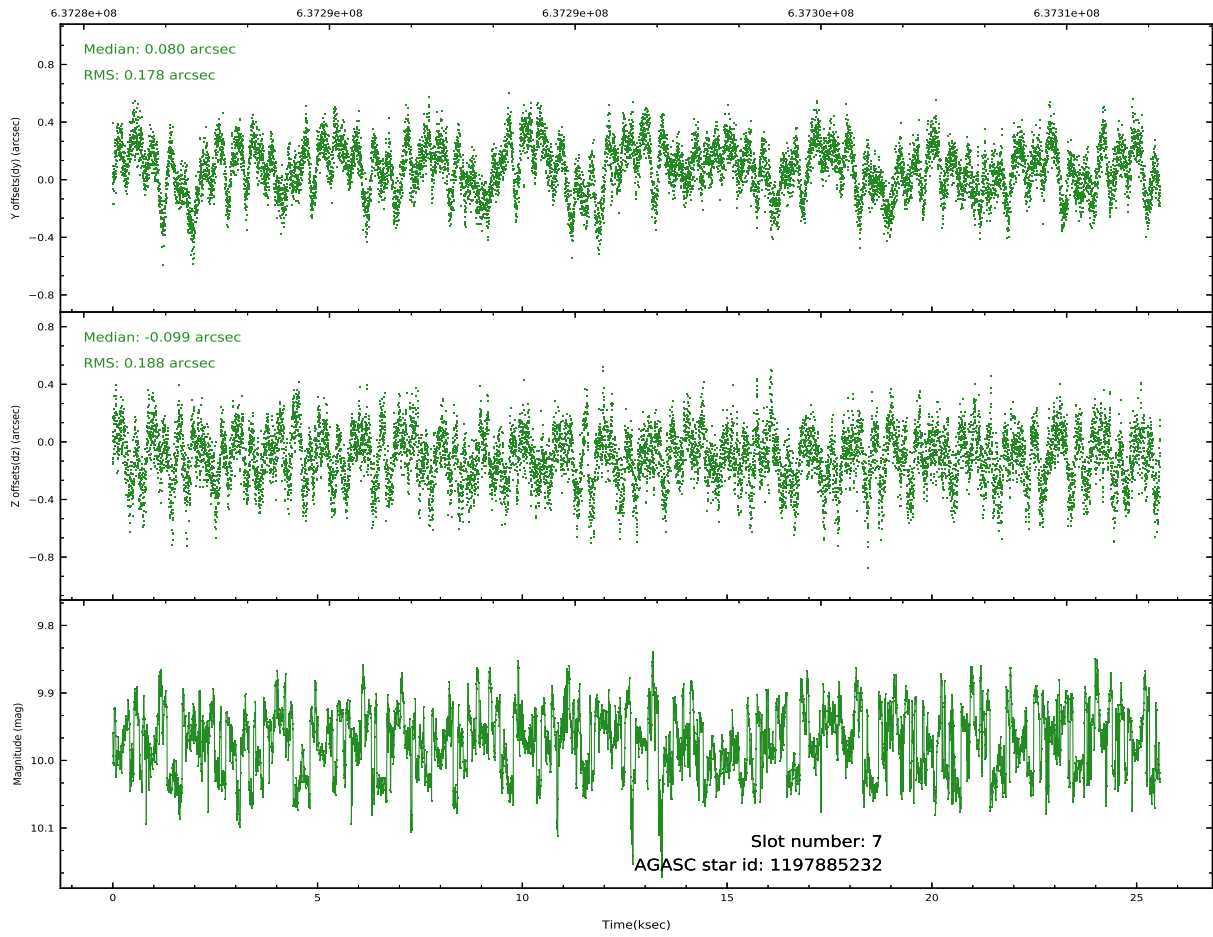
Time (s)



2.4.5 Slot 7

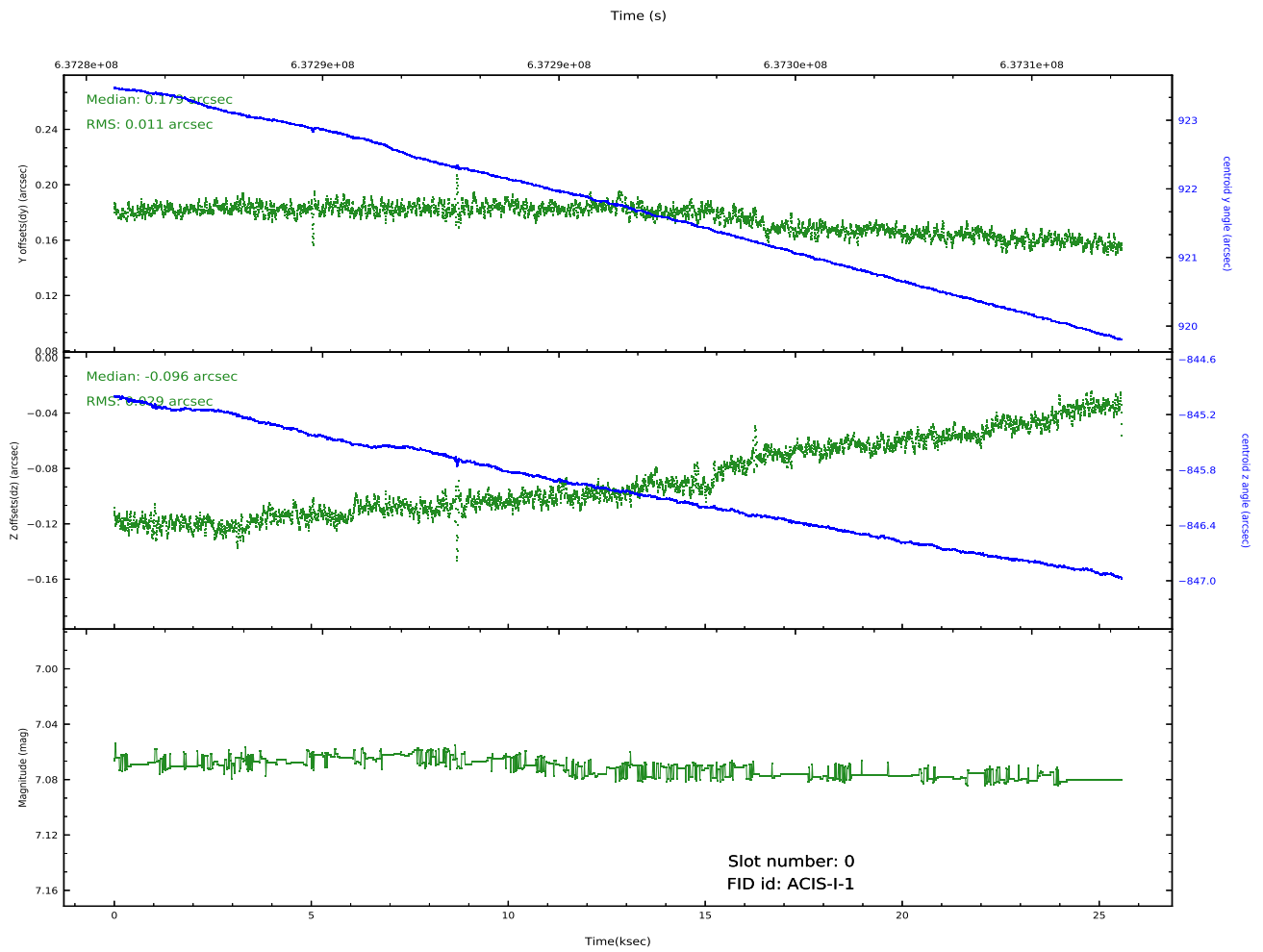
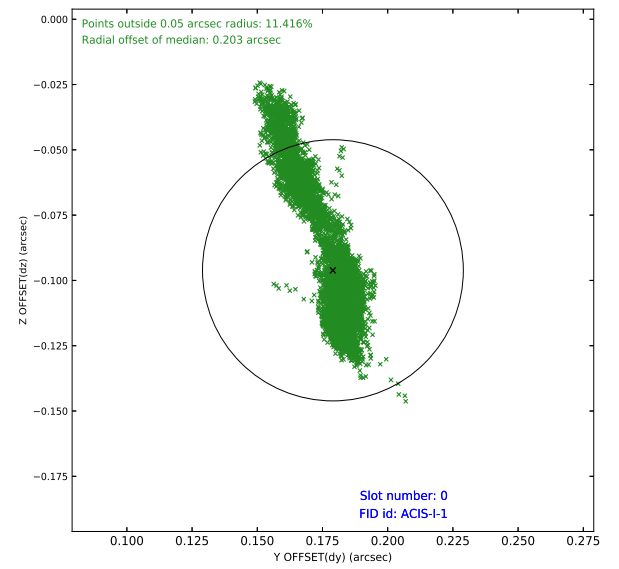
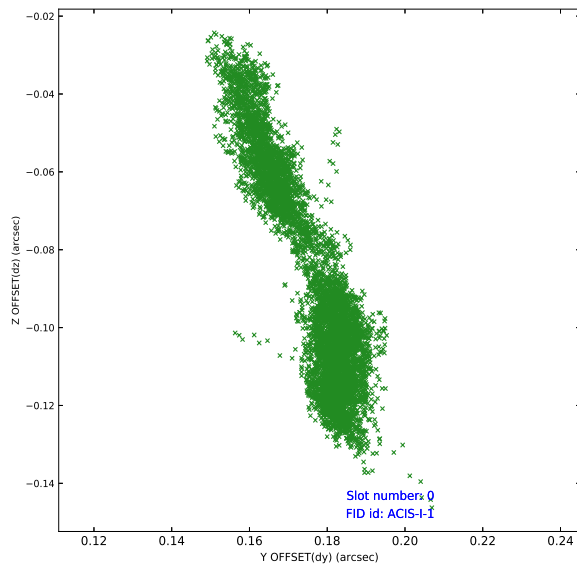


Time (s)

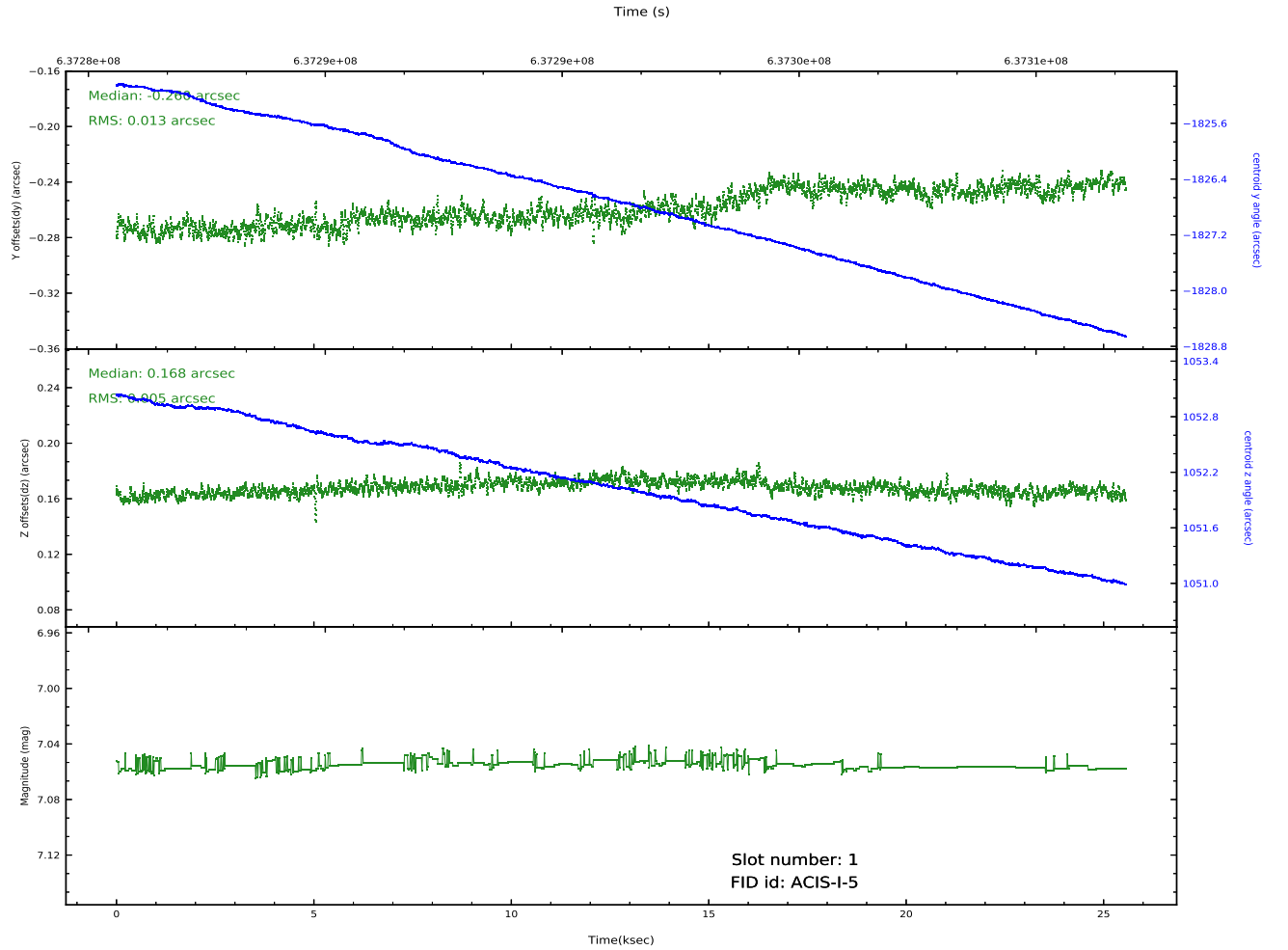
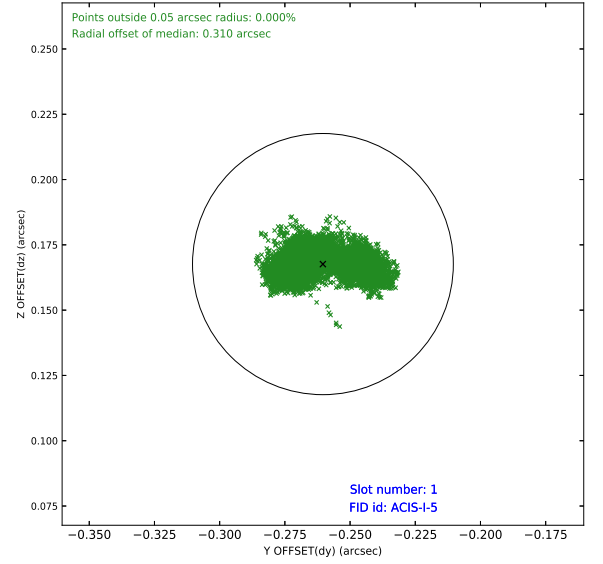
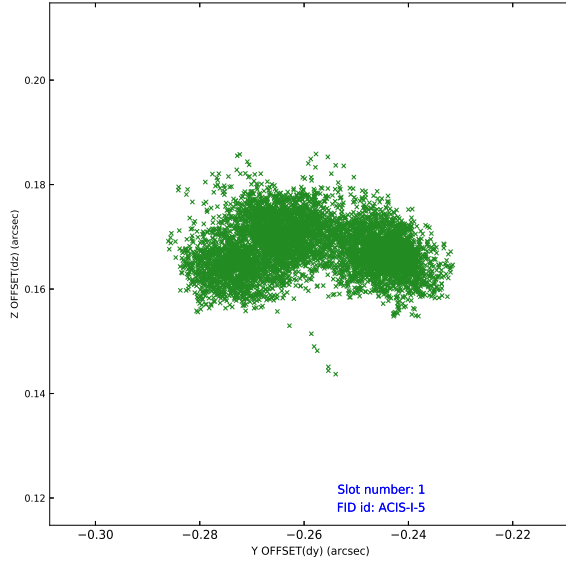


2.5 FID Slots

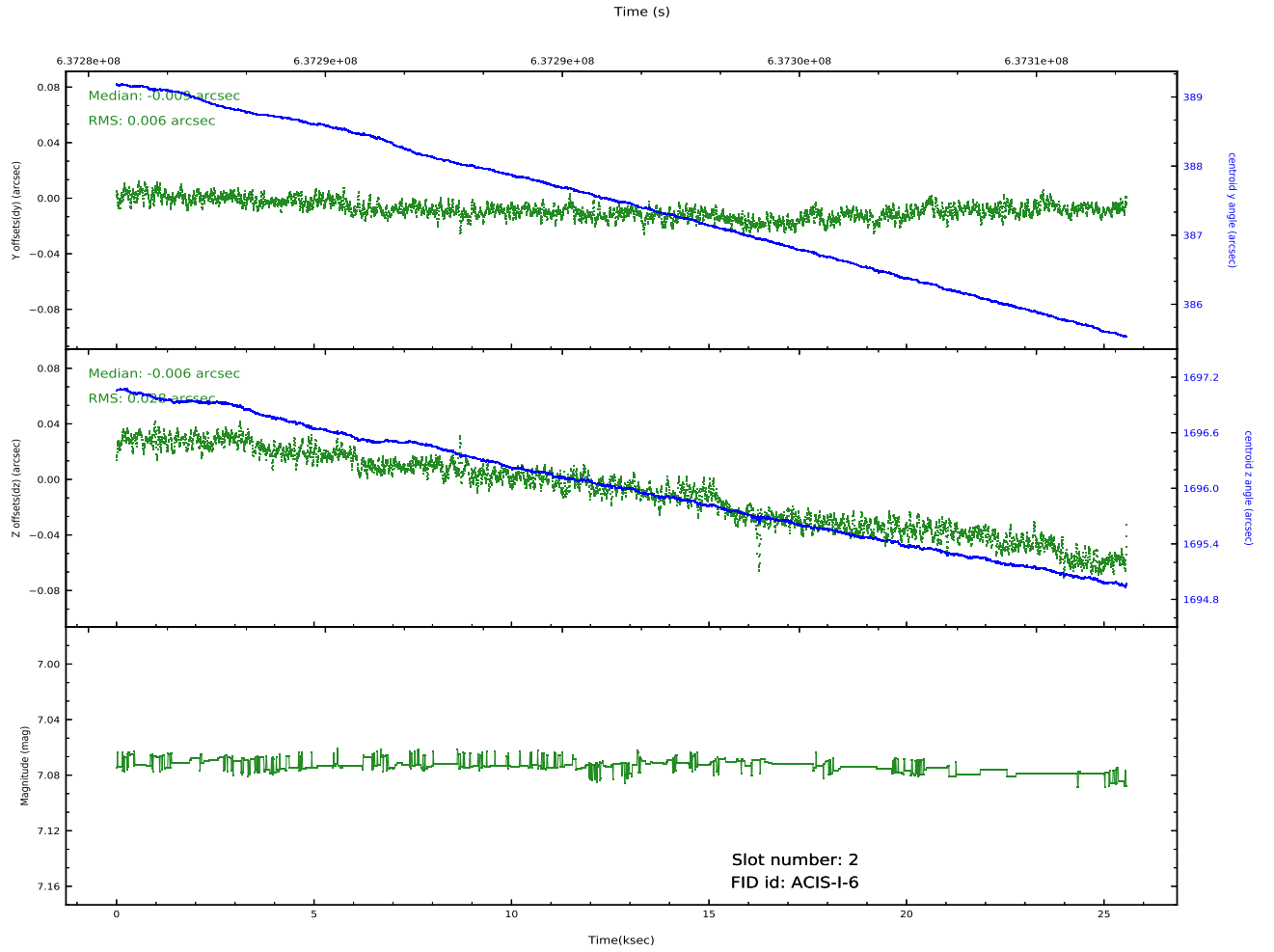
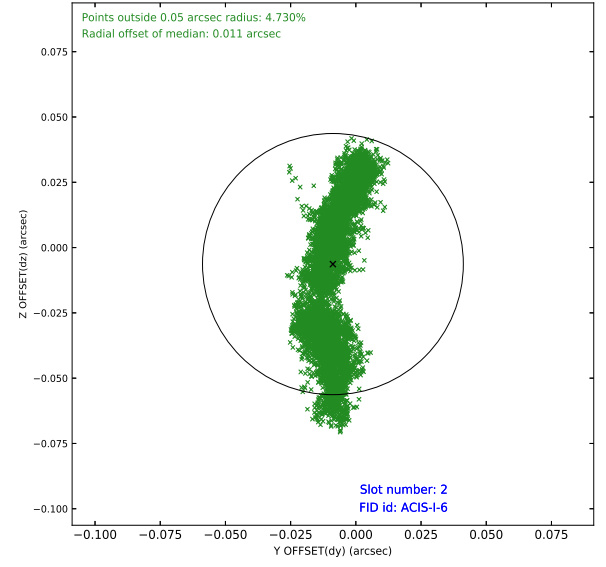
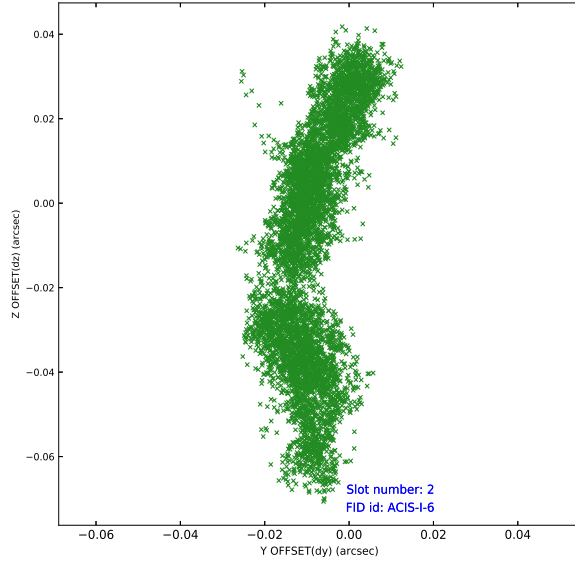
2.5.1 Slot 0



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)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.060757466078

A.2 Comments

Window constraint was met.