

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5596 - L2 Version 4
Chandra X-Ray Center

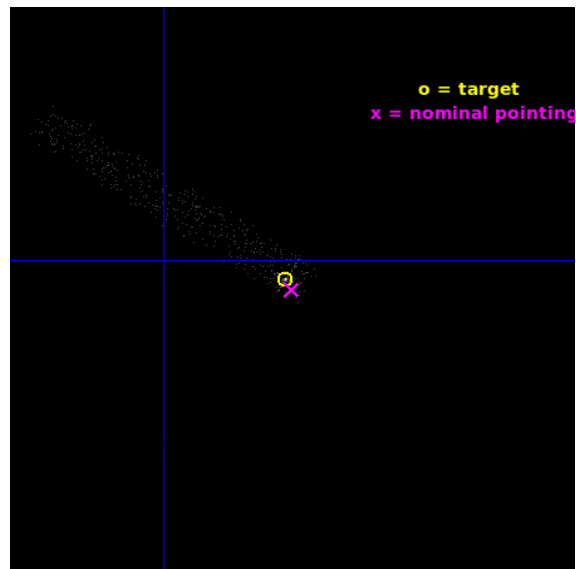
L2 Processing Date : Oct 7 2020

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

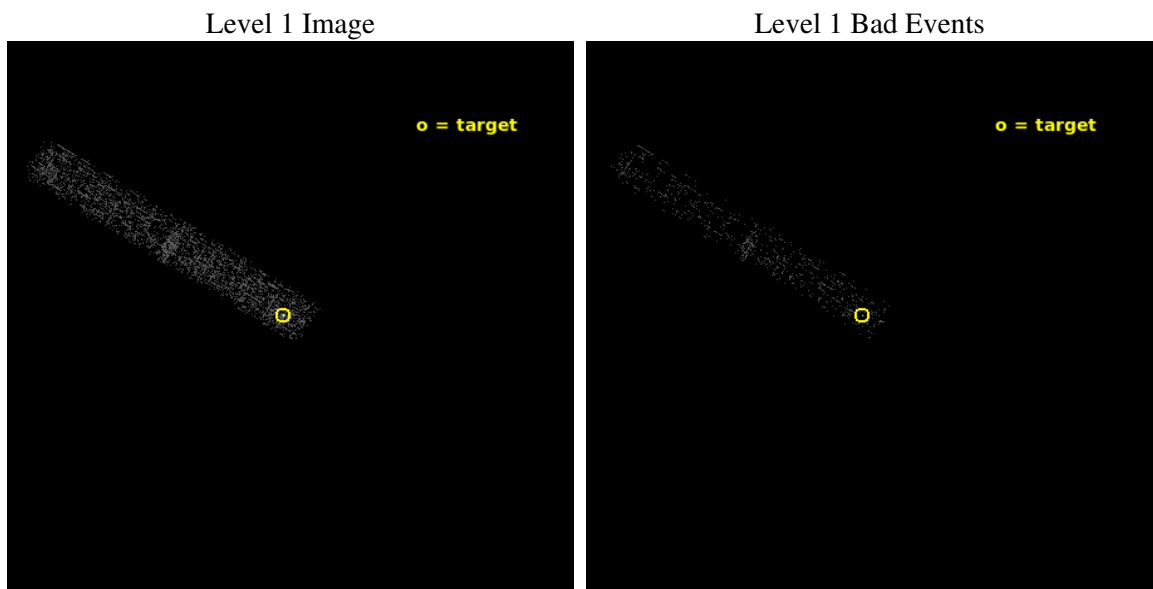
seq_num	701020	Sequence number
obs_id	5596	Observation id
title	An X-ray study of the hot gas environment around the nearby radio galaxy IC 310	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	IC 310	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	49.179167	Observer's specified target RA [deg]
dec_targ	41.324833	Observer's specified target Dec [deg]
ra_nom	49.175122146993	Nominal RA [deg]
dec_nom	41.320041323024	Nominal Dec [deg]
roll_nom	302.95997208296	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5181.75	Sum of GTIs [s]
livetime	1506.3226744186	Livetime [s]
ontime3	5181.75	Sum of GTIs [s]
l2events	1601	Number of level 2 events



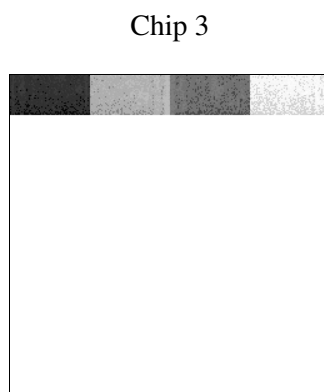
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5181.75	Sum of GTIs [s]
caldbver	4.9.2	 	ontime3	5181.75	Sum of GTIs [s]
date	2020-10-07T11:13:58	Date and time of file creation	l1events	5889	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

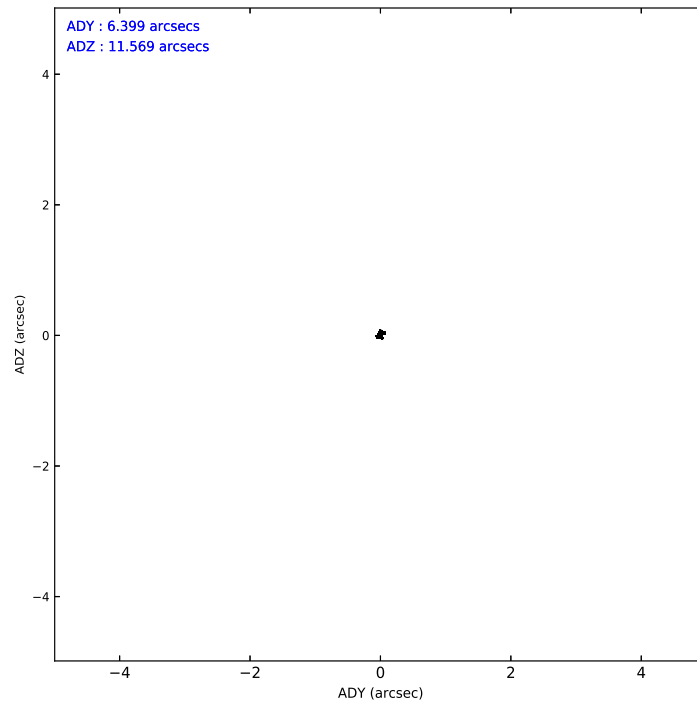
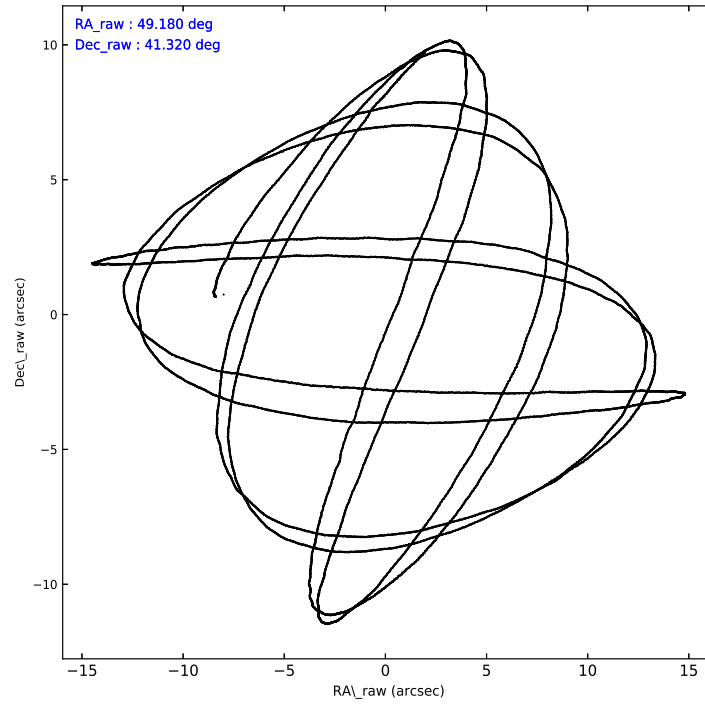
	ccd 3
level 1 events	5889
rejected events	4203
rejected %	71%

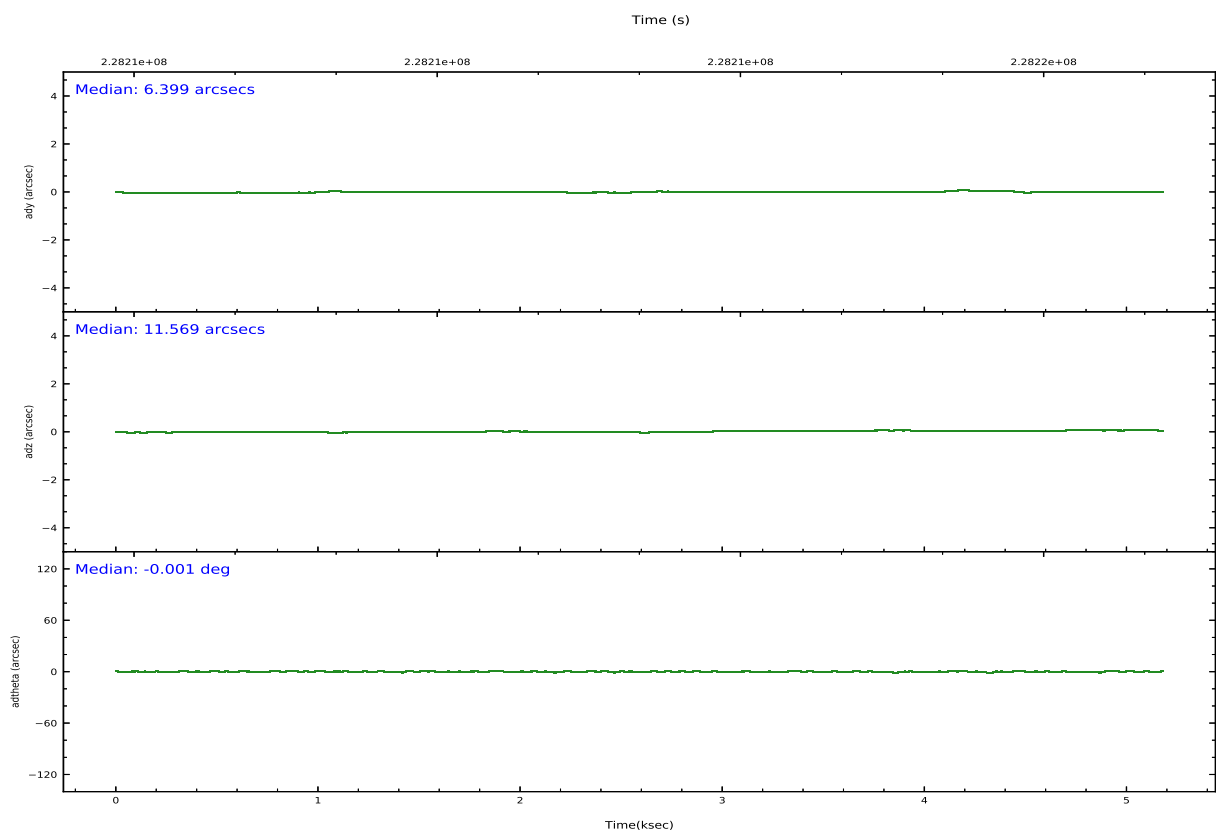
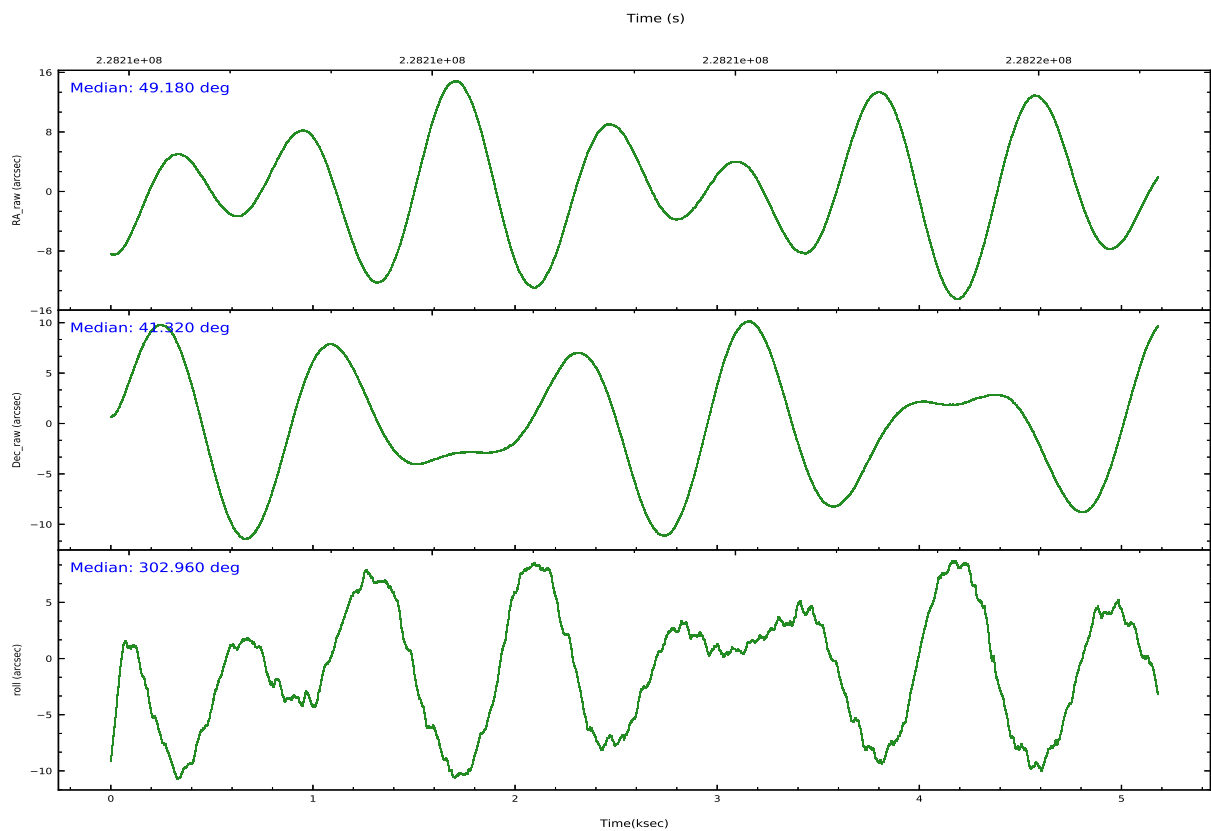
	ccd 3
grade 0 events	1246
	21%
grade 1 events	19
	0%
grade 2 events	180
	3%
grade 3 events	131
	2%
grade 4 events	124
	2%
grade 5 events	117
	1%
grade 6 events	85
	1%
grade 7 events	3987
	67%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	49.147685	49.175122146993	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	41.332613	41.320041323024	Subarray start row	897	897
[deg] Pointing Roll	302.772532	302.95997208296	Subarray row count	128	128
[mm] SIM focus pos	-0.782348	-0.7809083437167272	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001439871863259334	[s] Primary exposure time	0.000000	0.2
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	228211092.184000	228210183.19151			
Observation start date	2005-03-26T07:57:08	2005-03-26T07:43:03			
[s] Observation end time (MET)	228216092.184000	228216799.56681			
Observation end date	2005-03-26T09:20:28	2005-03-26T09:33:19			
Read mode	TIMED	TIMED			

2.3 Aspect



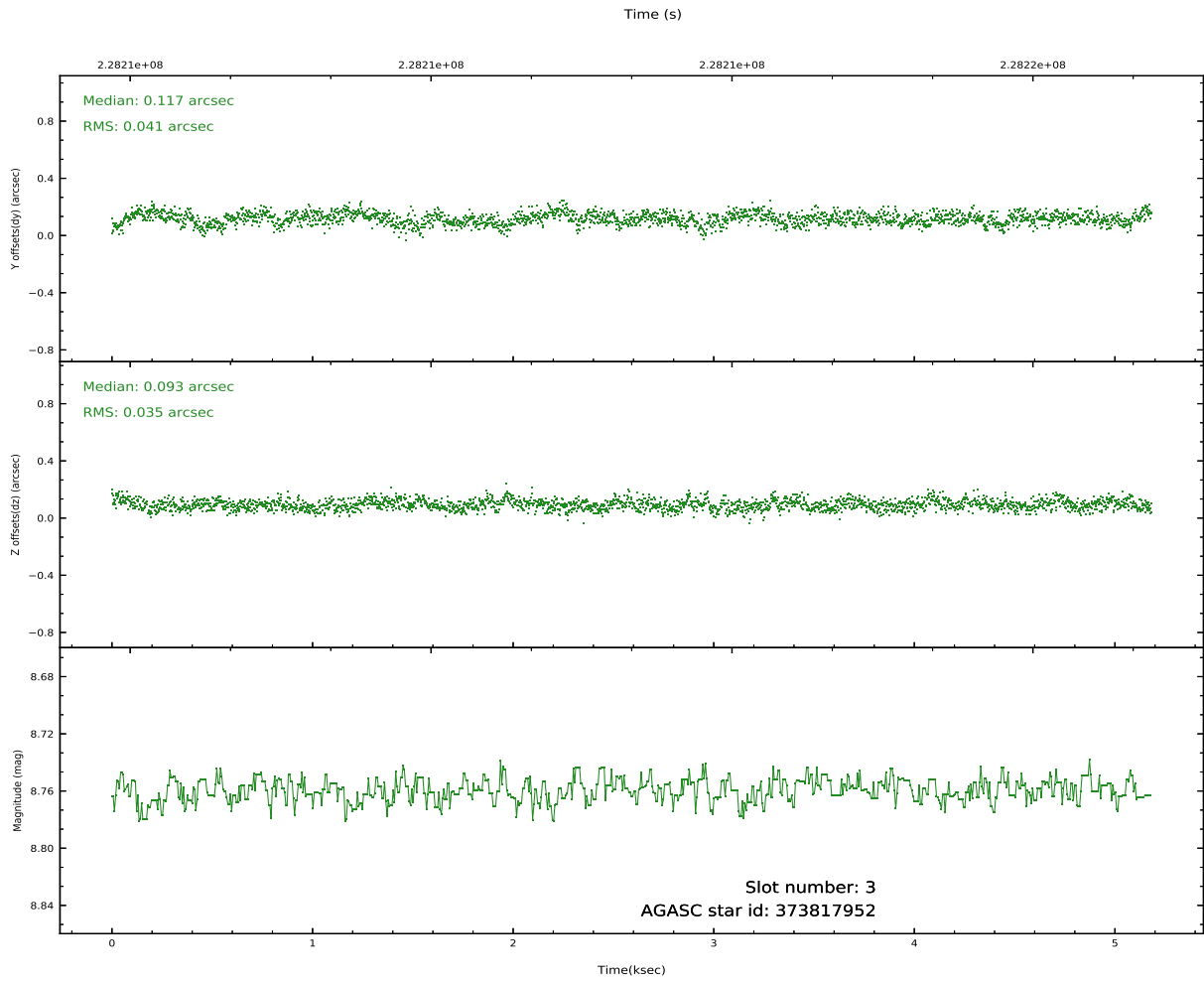
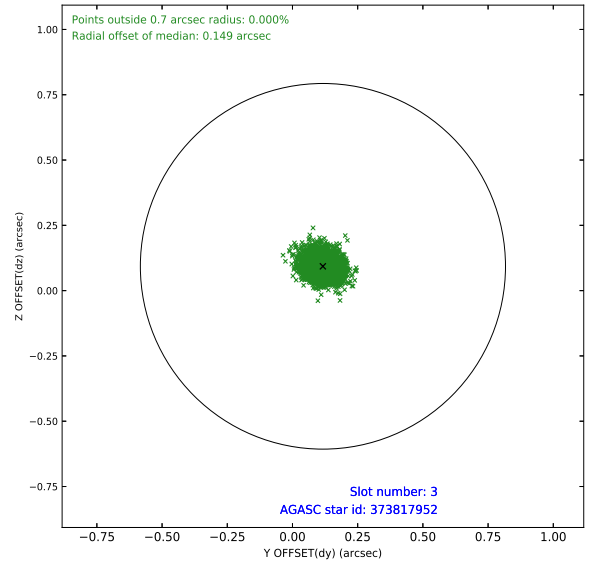
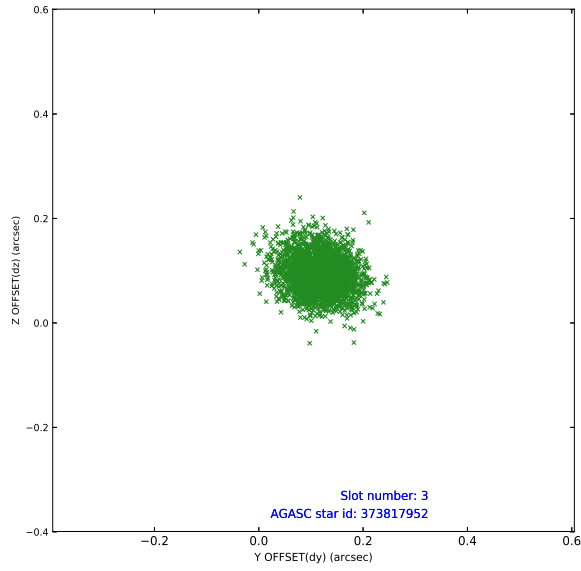


Slot Statistics

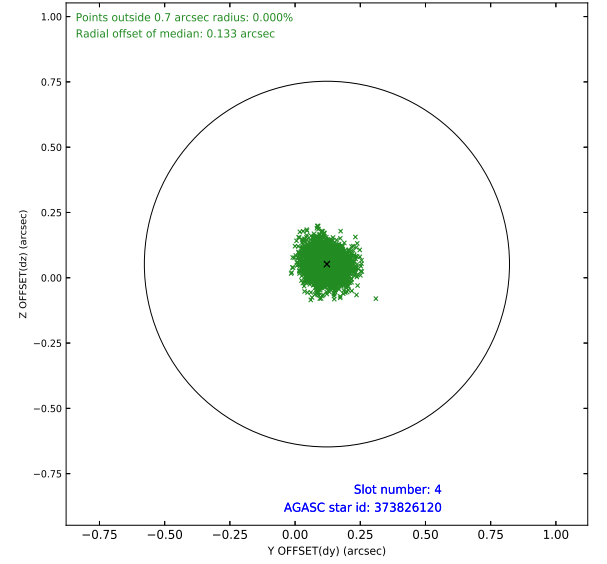
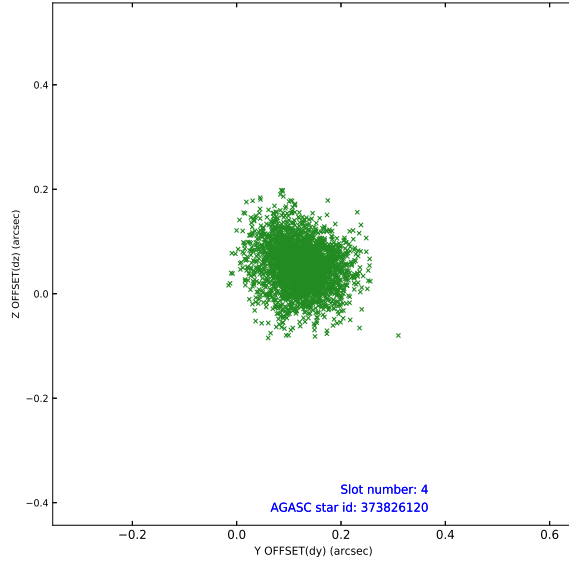
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	1264	1.000	0.052	-0.040	0.006	0.011	0.000000	0.000000	933.34	-835
1	FID		ACIS-I-5	7.22	1264	1.000	-0.198	0.055	0.006	0.011	0.000000	0.000000	-1814.34	1061
2	FID		ACIS-I-6	7.25	1264	1.000	0.055	0.055	0.007	0.011	0.000000	0.000000	397.66	1707
3	GUIDE	used	373817952	8.76	2528	1.000	0.117	0.093	0.057	0.093	49.913424	40.978510	2191.23	1065
4	GUIDE	used	373826120	8.90	2529	1.000	0.122	0.052	0.068	0.112	49.738165	41.186341	1305.51	1063
5	GUIDE	used	374353904	8.33	2529	1.000	-0.147	-0.171	0.088	0.135	48.175092	41.439059	-1754.55	-1991
6	GUIDE	used	374355168	8.55	2528	1.000	-0.014	-0.106	0.060	0.097	48.517523	41.466988	-1332.22	-1164
7	GUIDE	used	374358688	9.30	2528	1.000	-0.073	0.132	0.100	0.159	49.259903	42.100043	-2161.20	1747

2.4 Star Slots

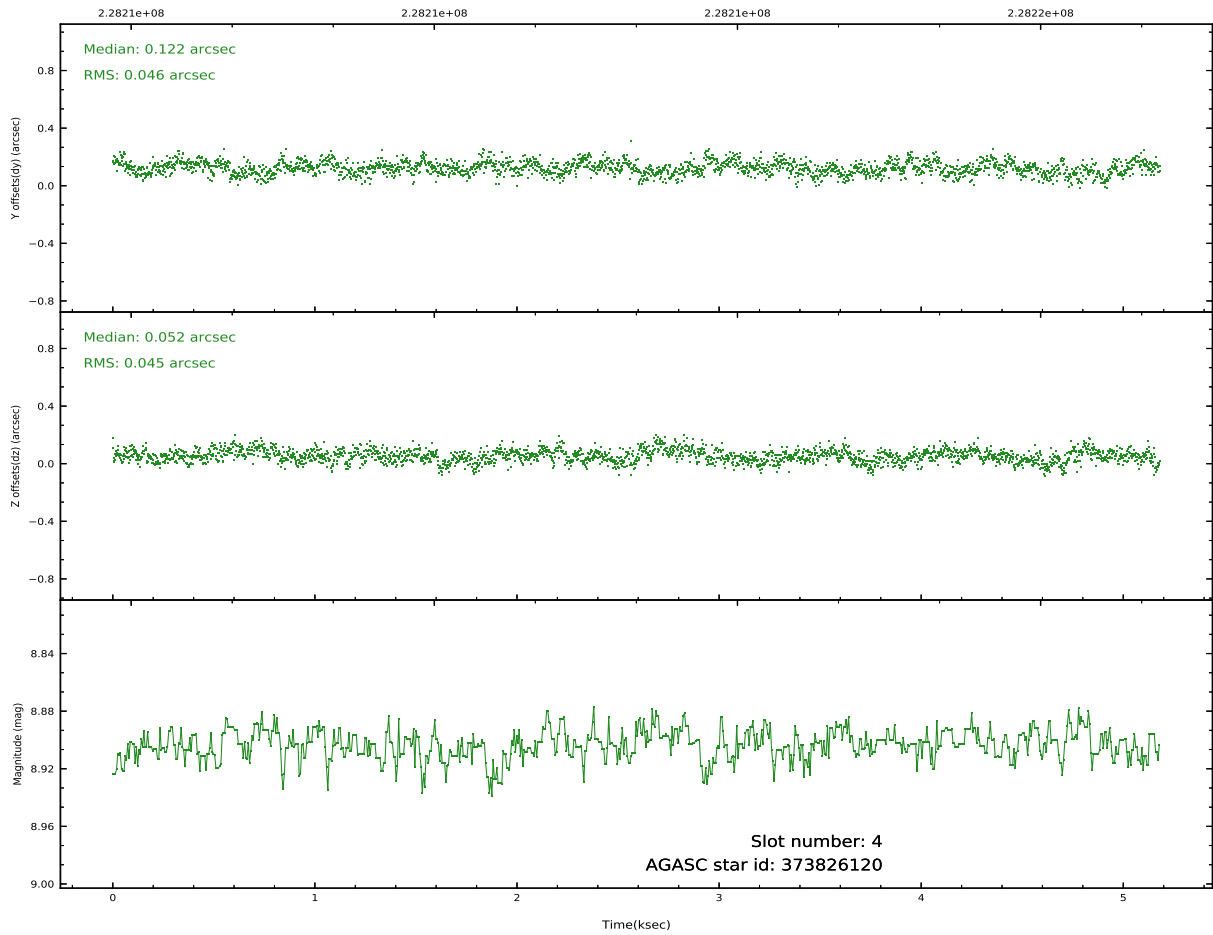
2.4.1 Slot 3



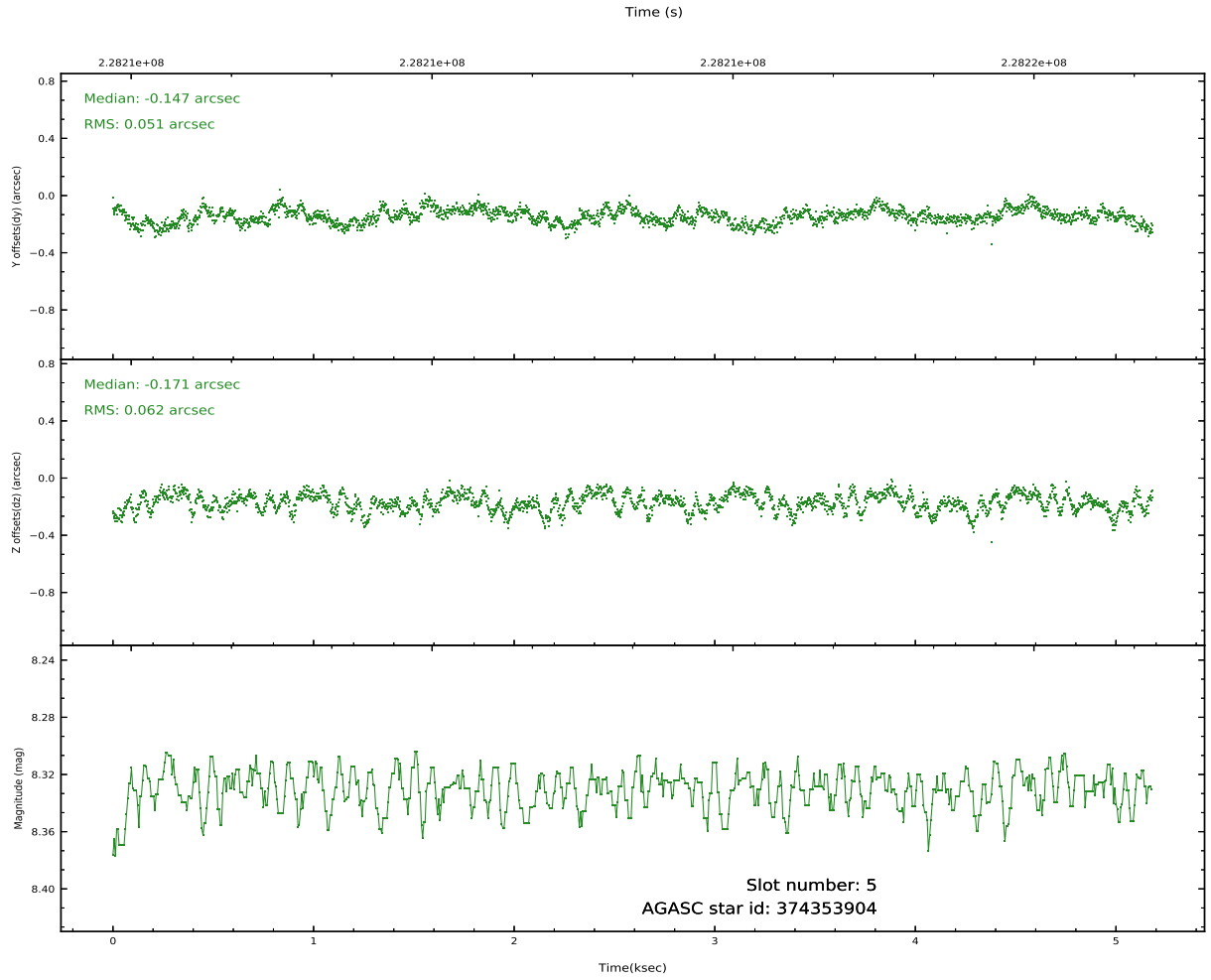
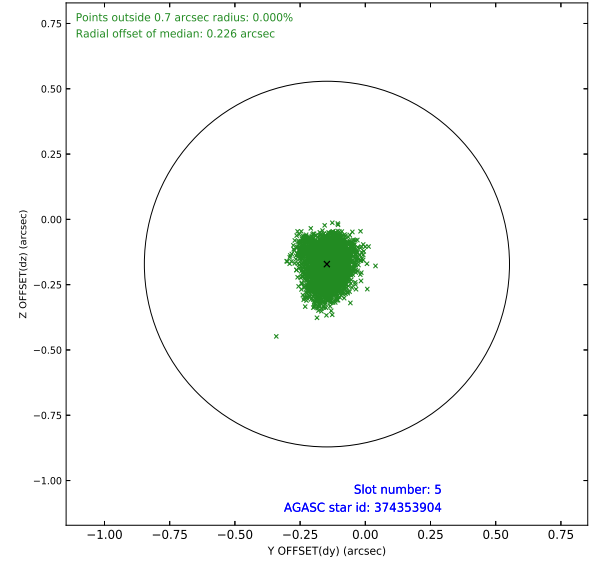
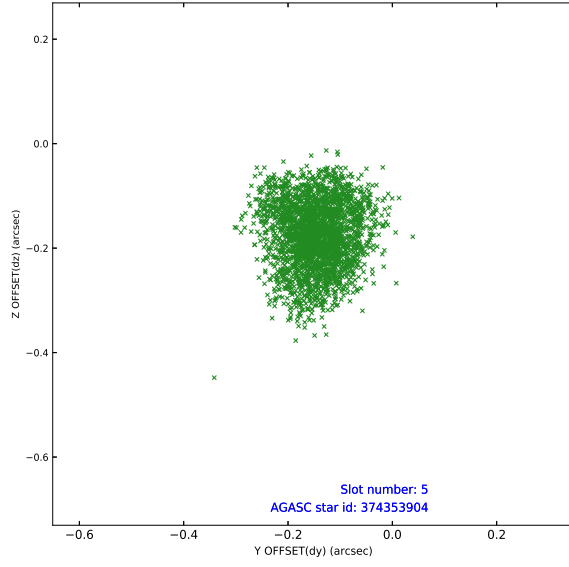
2.4.2 Slot 4



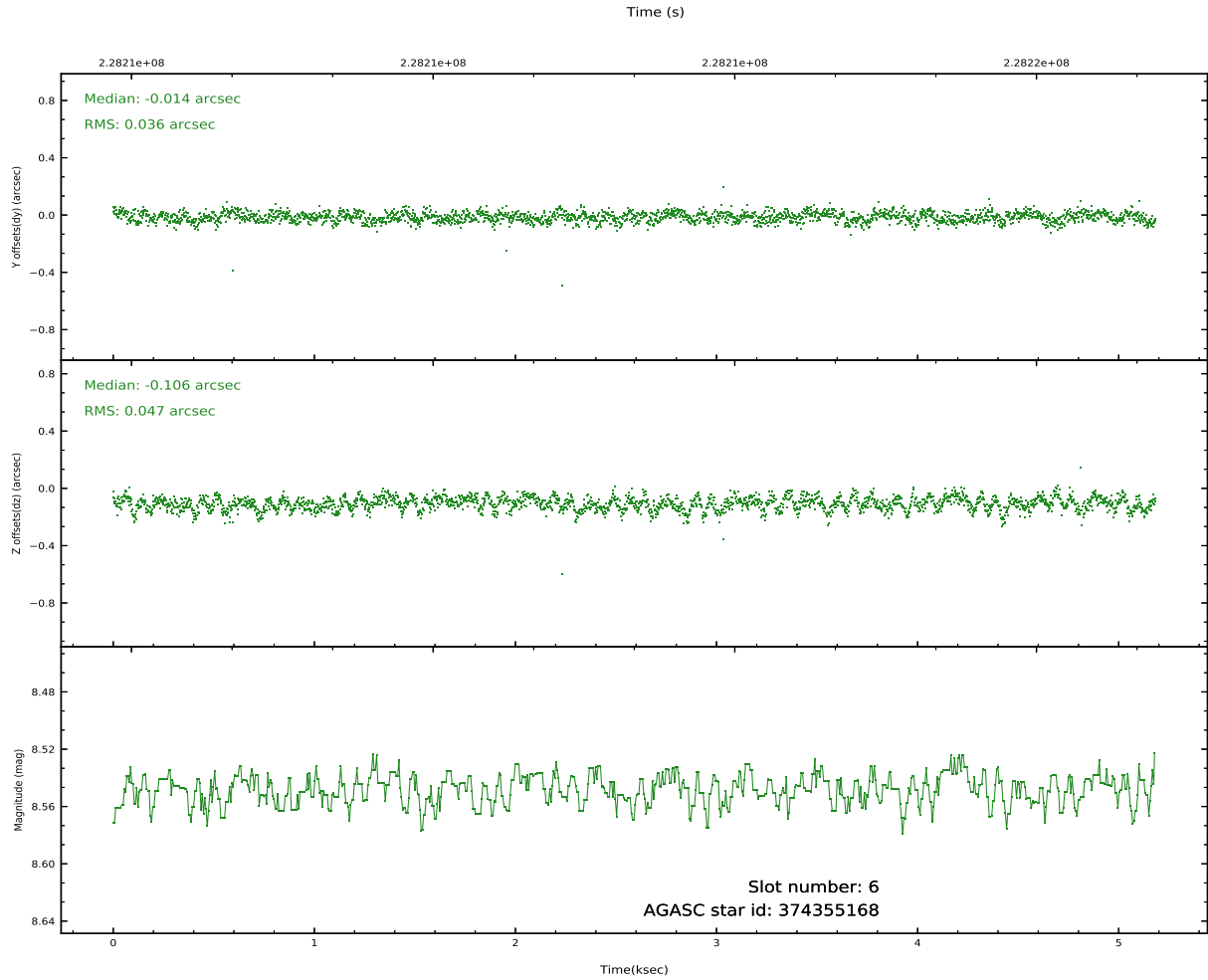
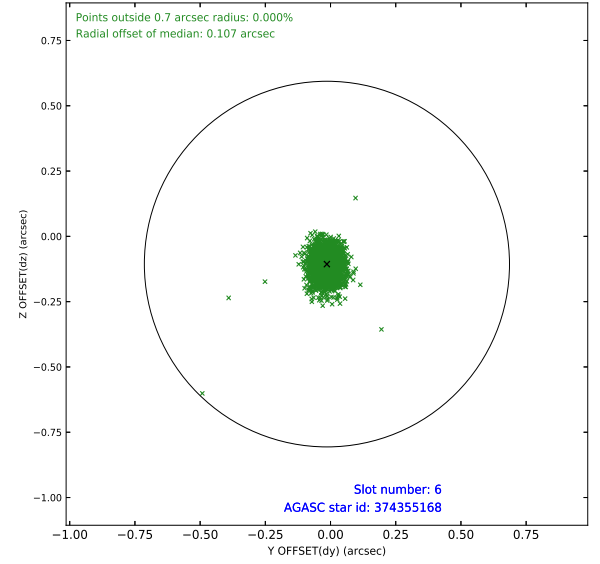
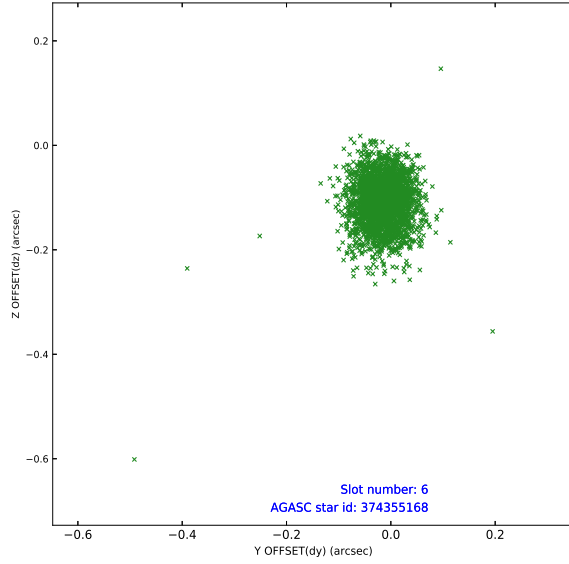
Time (s)



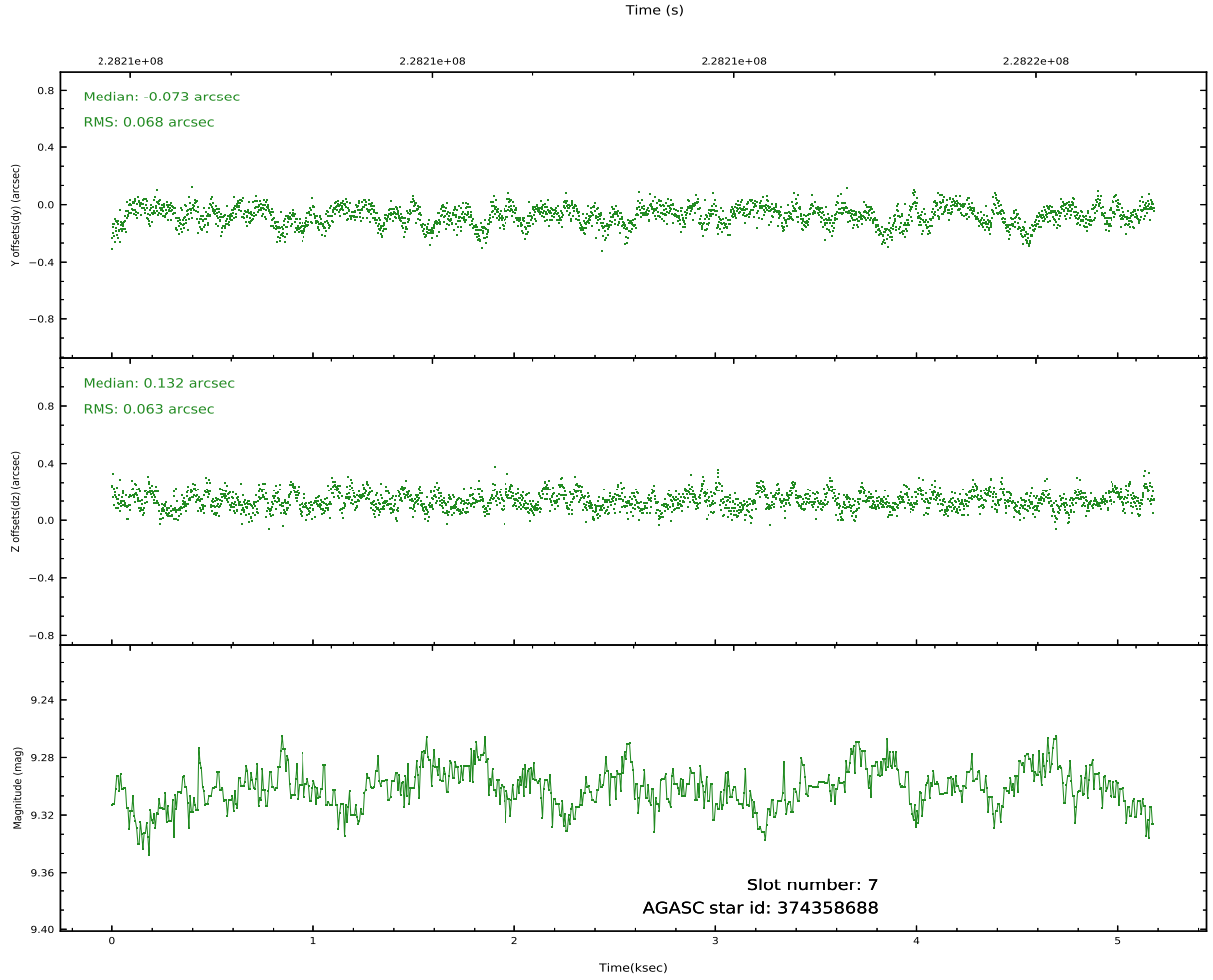
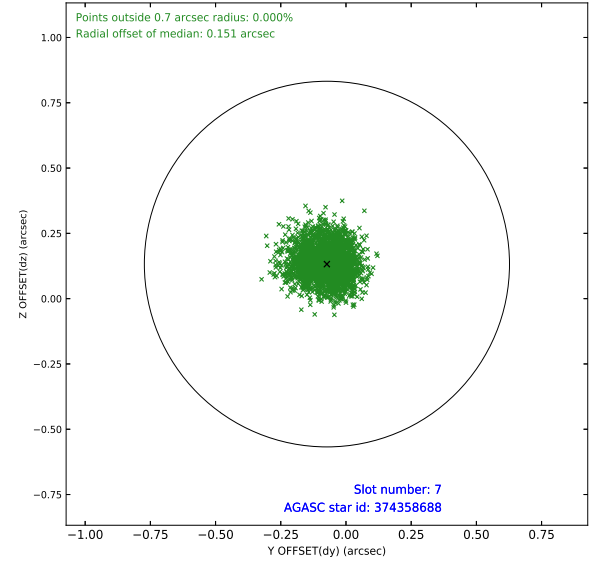
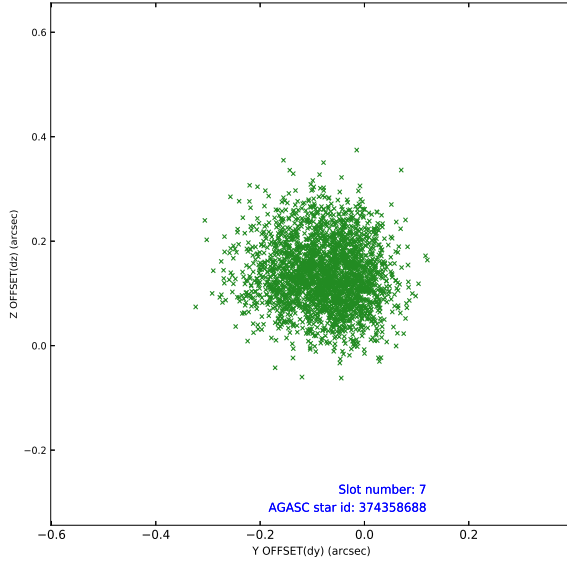
2.4.3 Slot 5



2.4.4 Slot 6

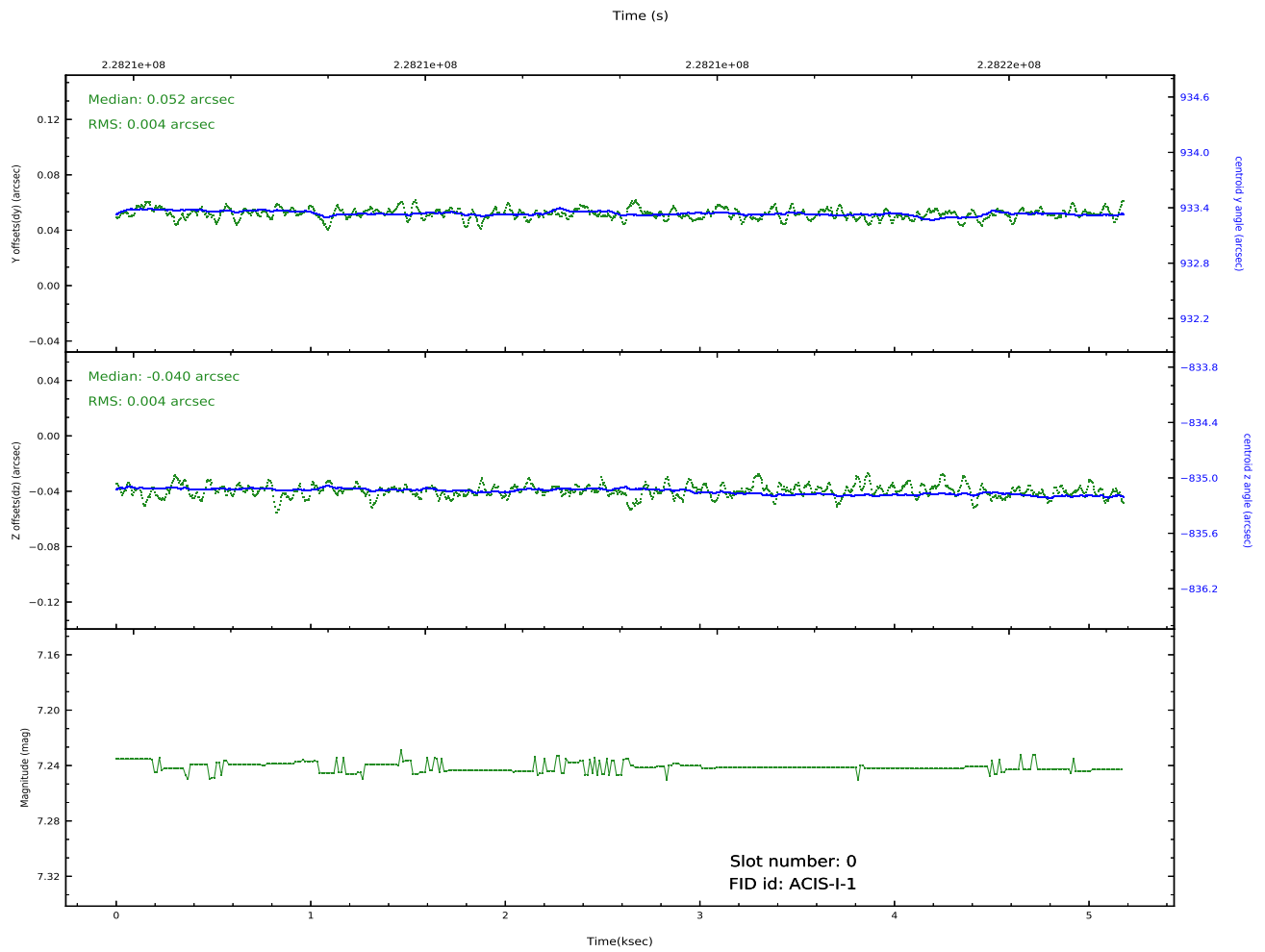
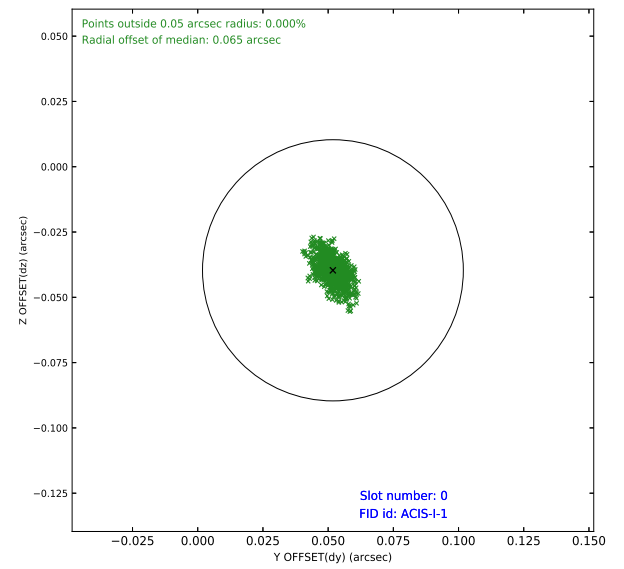
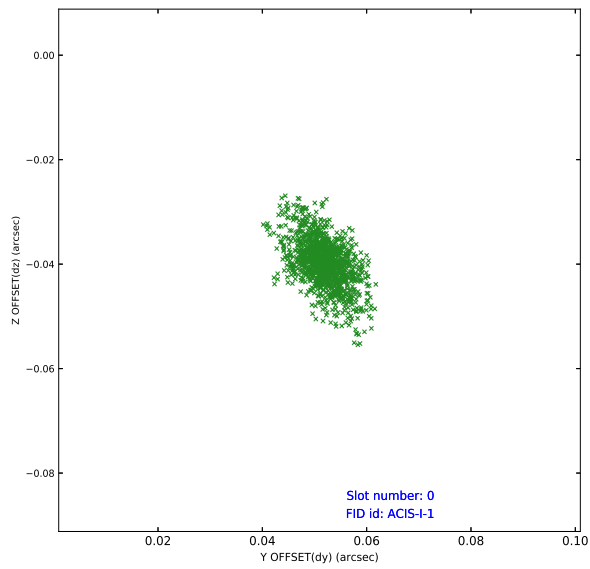


2.4.5 Slot 7

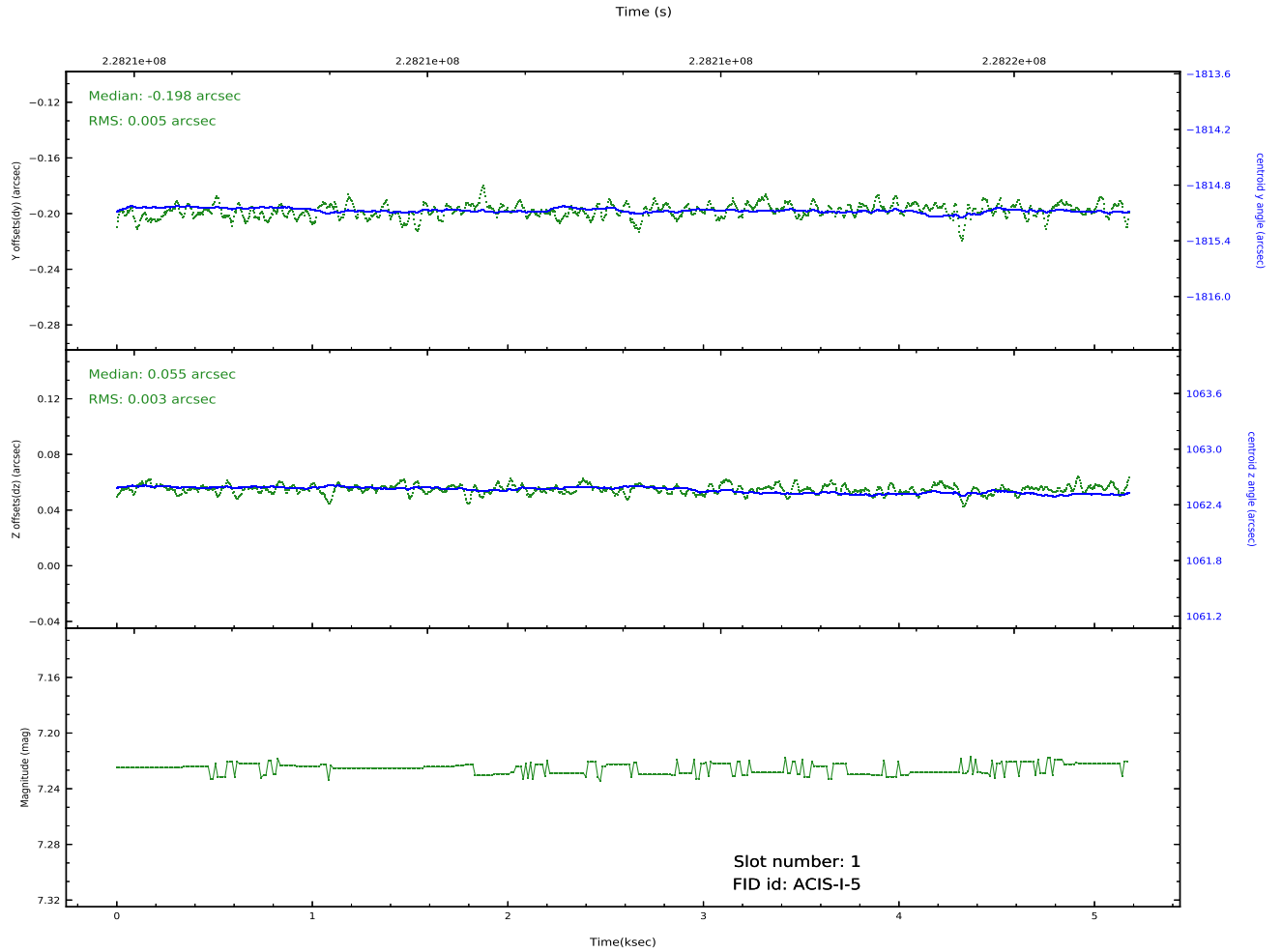
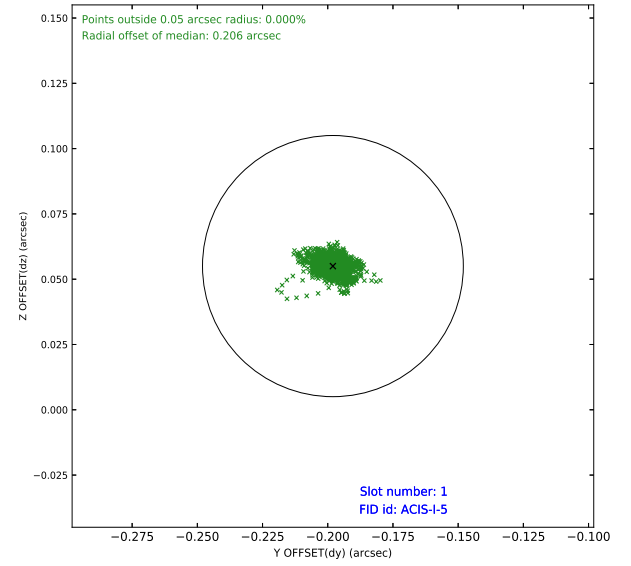
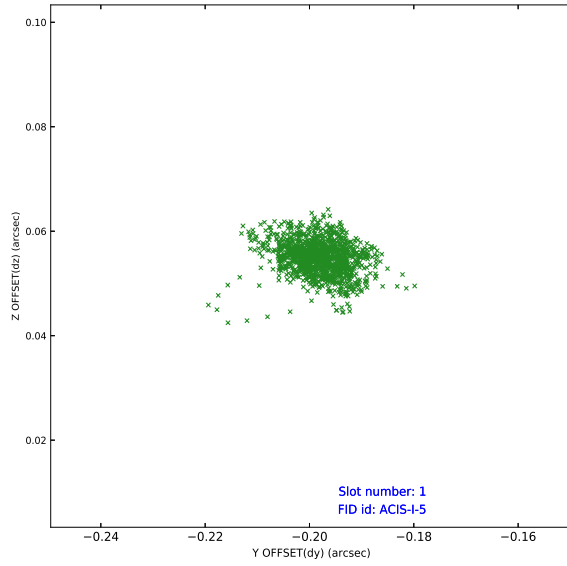


2.5 FID Slots

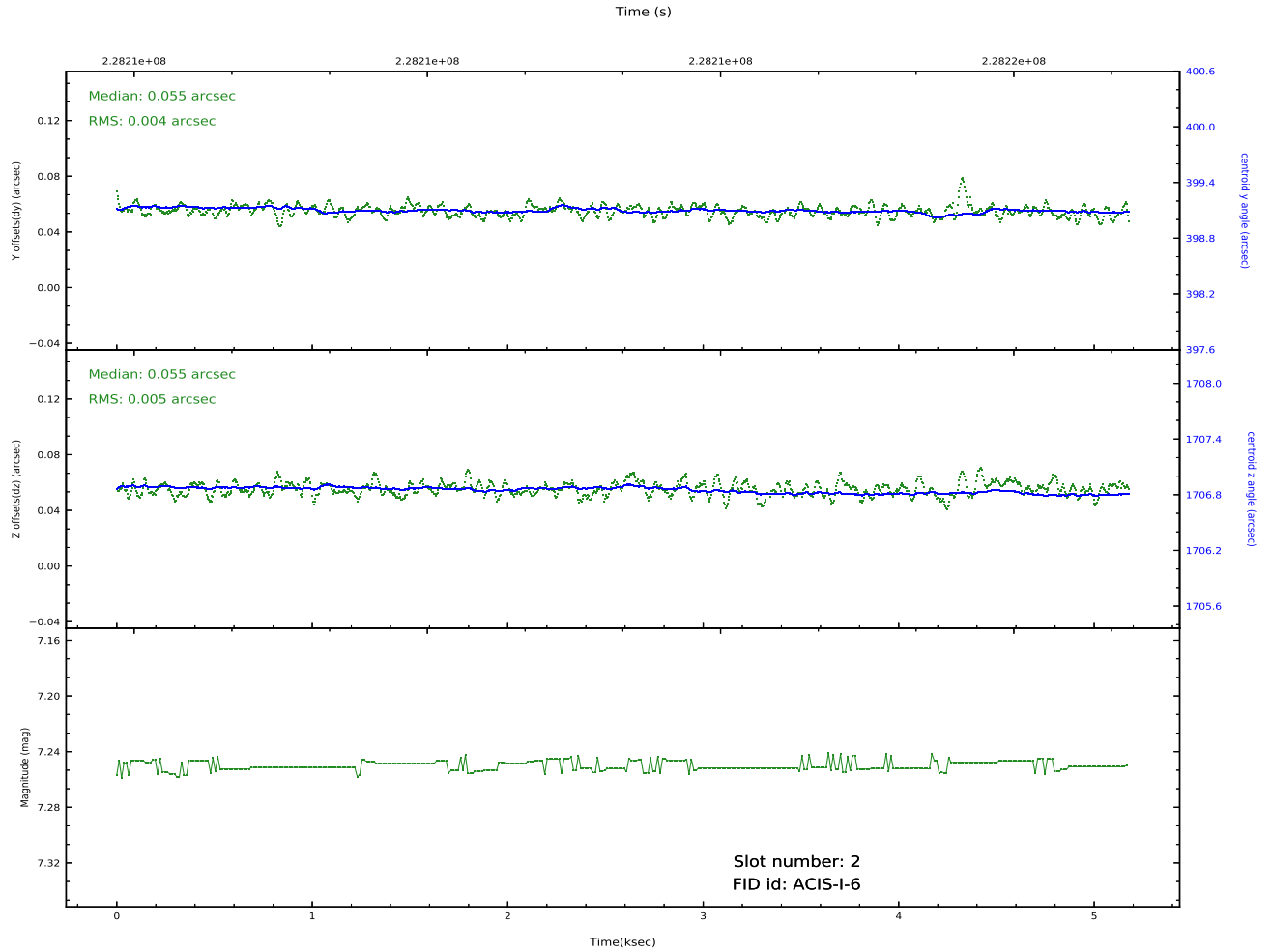
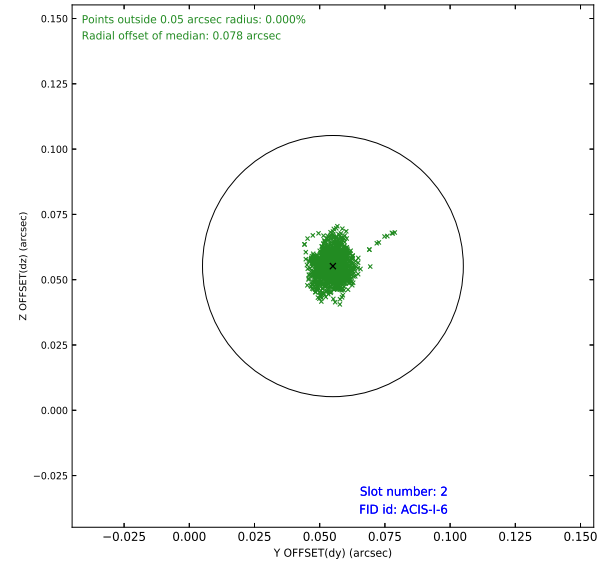
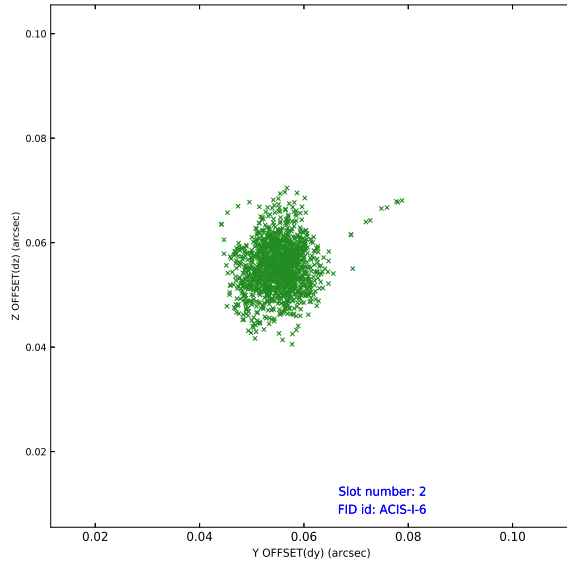
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.18175

A.2 Comments