

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 21005 - L2 Version 3
Chandra X-Ray Center

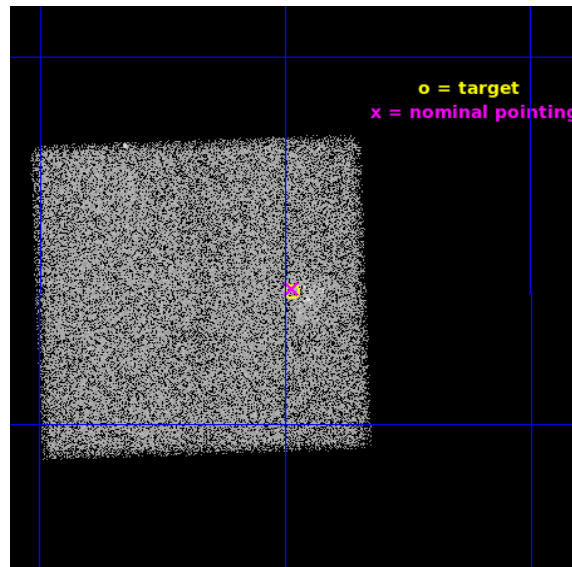
L2 Processing Date : Oct 25 2020

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1 Front

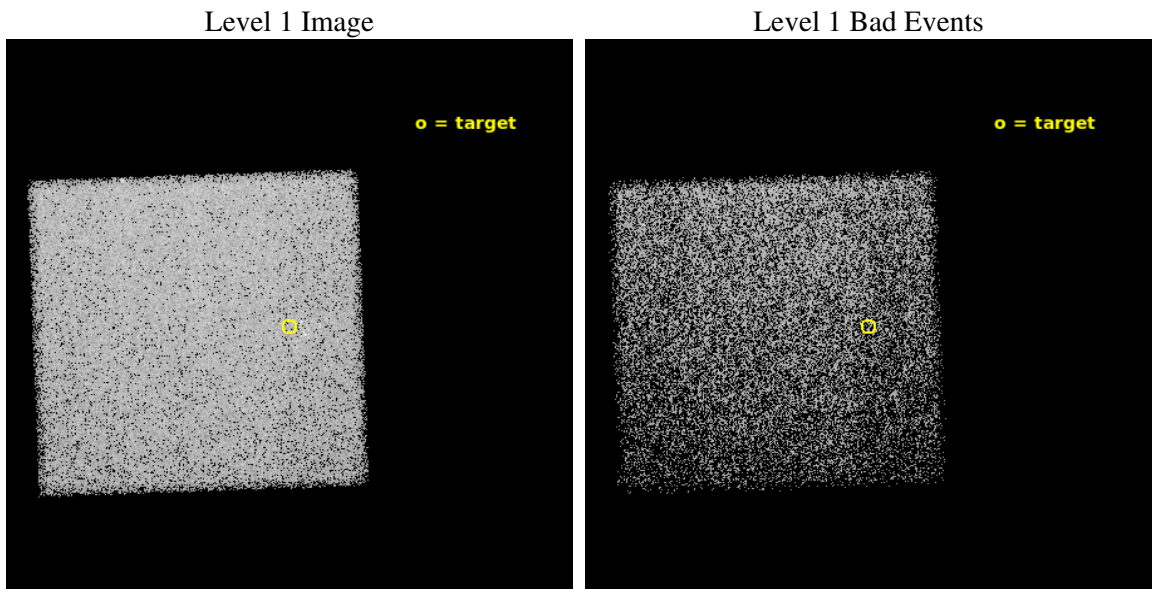
seq_num	503051	Sequence number
obs_id	21005	Observation id
title	Zeroing in on the Mass Loss Properties of Core Collapse Supernova Progenitors	Proposal title
observer	Daniel Patnaude	Principal investigator
object	SN2013df	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.620833	Observer's specified target RA [deg]
dec_targ	31.227222	Observer's specified target Dec [deg]
ra_nom	186.62141940953	Nominal RA [deg]
dec_nom	31.228310412929	Nominal Dec [deg]
roll_nom	177.93331078043	Nominal Roll [deg]
revision	3	Processing version of data
ontime	21963.0	Sum of GTIs [s]
livetime	21666.600899692	Livetime [s]
ontime7	21963.0	Sum of GTIs [s]
l2events	87189	Number of level 2 events



2 OBI

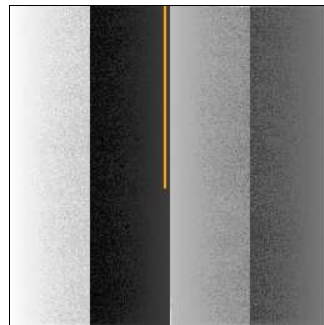
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	22000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	21963.0	Sum of GTIs [s]
caldbver	4.9.3	 	ontime7	21963.0	Sum of GTIs [s]
date	2020-10-25T04:52:02	Date and time of file creation	l1events	202335	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

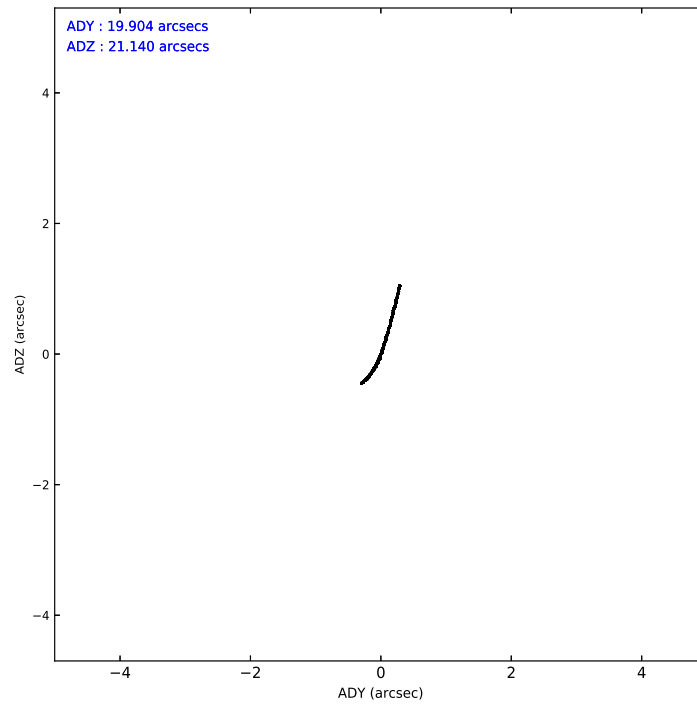
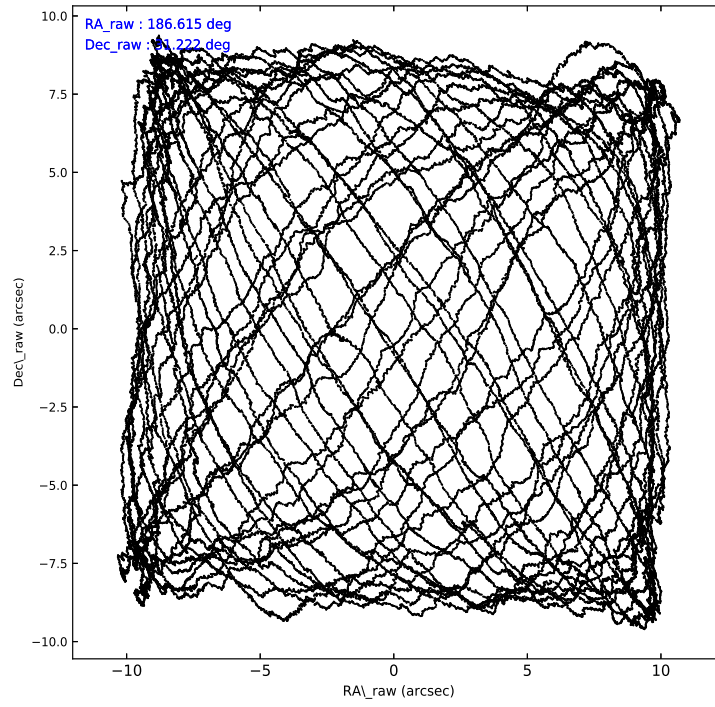
	ccd 7
level 1 events	202335
rejected events	112418
rejected %	55%

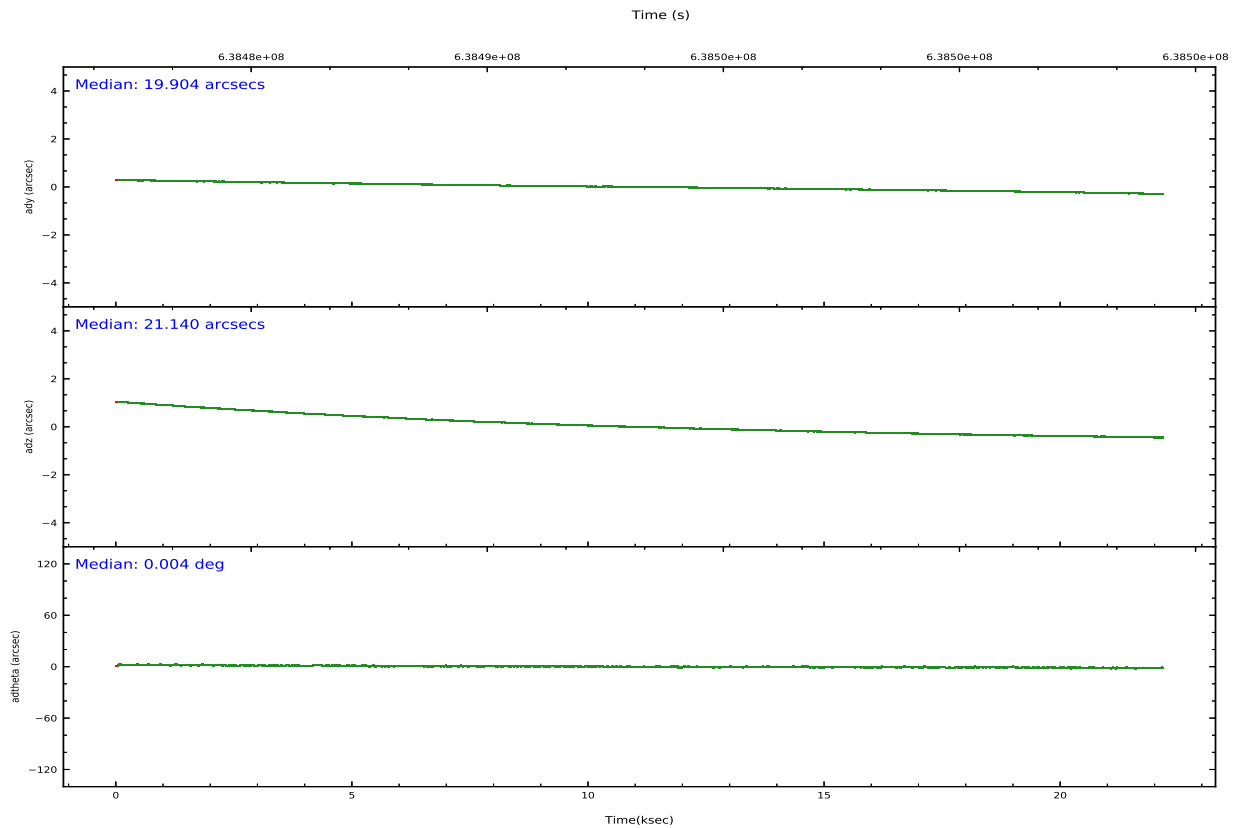
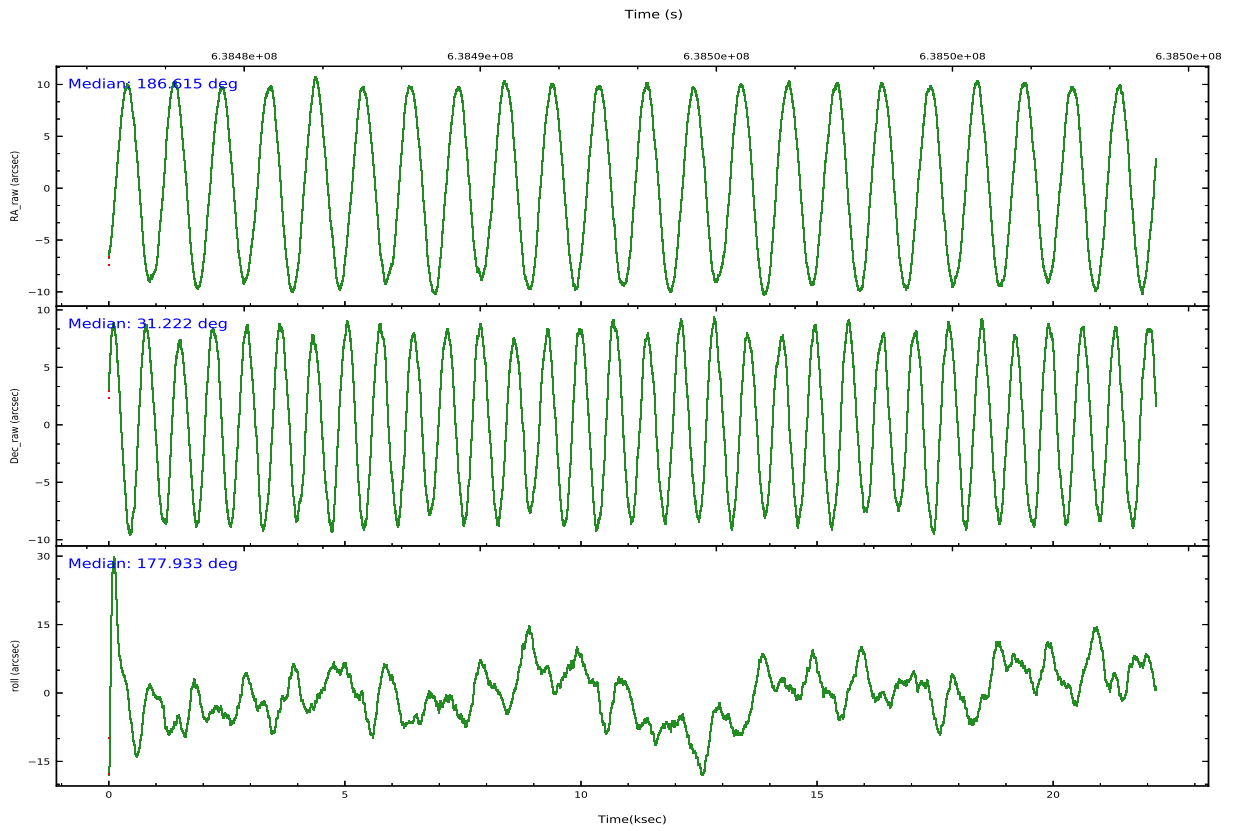
	ccd 7
grade 0 events	7902
	3%
grade 1 events	315
	0%
grade 2 events	18973
	9%
grade 3 events	7354
	3%
grade 4 events	7280
	3%
grade 5 events	20215
	9%
grade 6 events	48440
	23%
grade 7 events	91856
	45%

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	186.642609	186.62141940953	Subarray requested	NONE	NONE
[deg] Pointing Dec	31.235528	31.228310412929	Alternating exposures requested	N	N
[deg] Pointing Roll	177.763170	177.93331078043	[s] Primary exposure time	0.000000	3
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	638482314.184000	638481292.48378			
Observation start date	2018-03-26T20:10:45	2018-03-26T19:54:52			
[s] Observation end time (MET)	638504314.184000	638504749.09767			
Observation end date	2018-03-27T02:17:25	2018-03-27T02:25:49			
Read mode	TIMED	TIMED			

2.3 Aspect





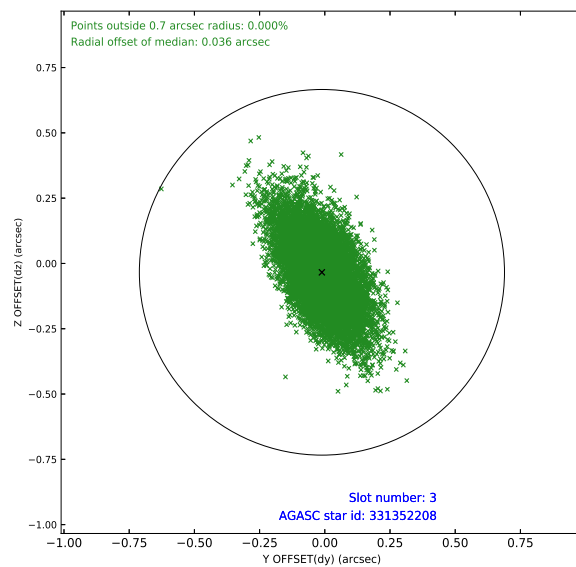
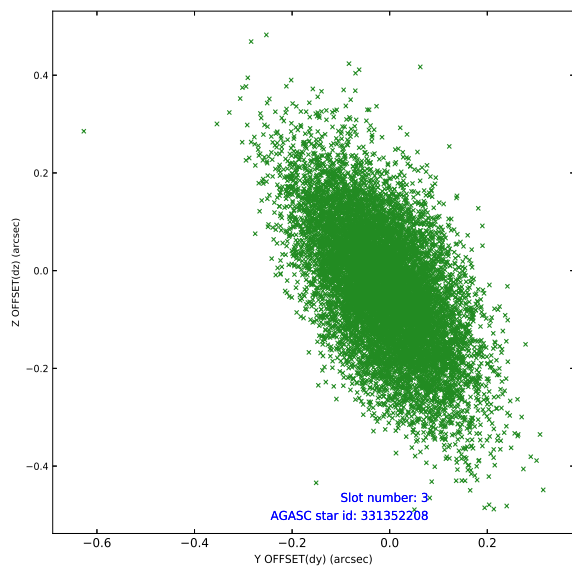
Slot Statistics

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	7.02	5411	1.000	0.111	-0.092	0.013	0.026	0.000000	0.000000	-773.16	-1742
1	FID		ACIS-S-4	7.14	5410	1.000	0.092	-0.029	0.016	0.025	0.000000	0.000000	2140.31	165
2	FID		ACIS-S-5	7.12	5411	1.000	-0.235	0.128	0.015	0.024	0.000000	0.000000	-1825.87	159
3	GUIDE	used	331352208	7.89	10815	1.000	-0.011	-0.034	0.159	0.284	186.216521	31.823159	1384.69	-2064
4	GUIDE	used	331354344	8.57	10812	1.000	-0.017	-0.093	0.164	0.288	186.327107	31.864251	1058.94	-2220
5	GUIDE	used	331354424	8.79	10808	1.000	0.028	0.129	0.158	0.281	186.124806	31.280357	1602.40	-102
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0

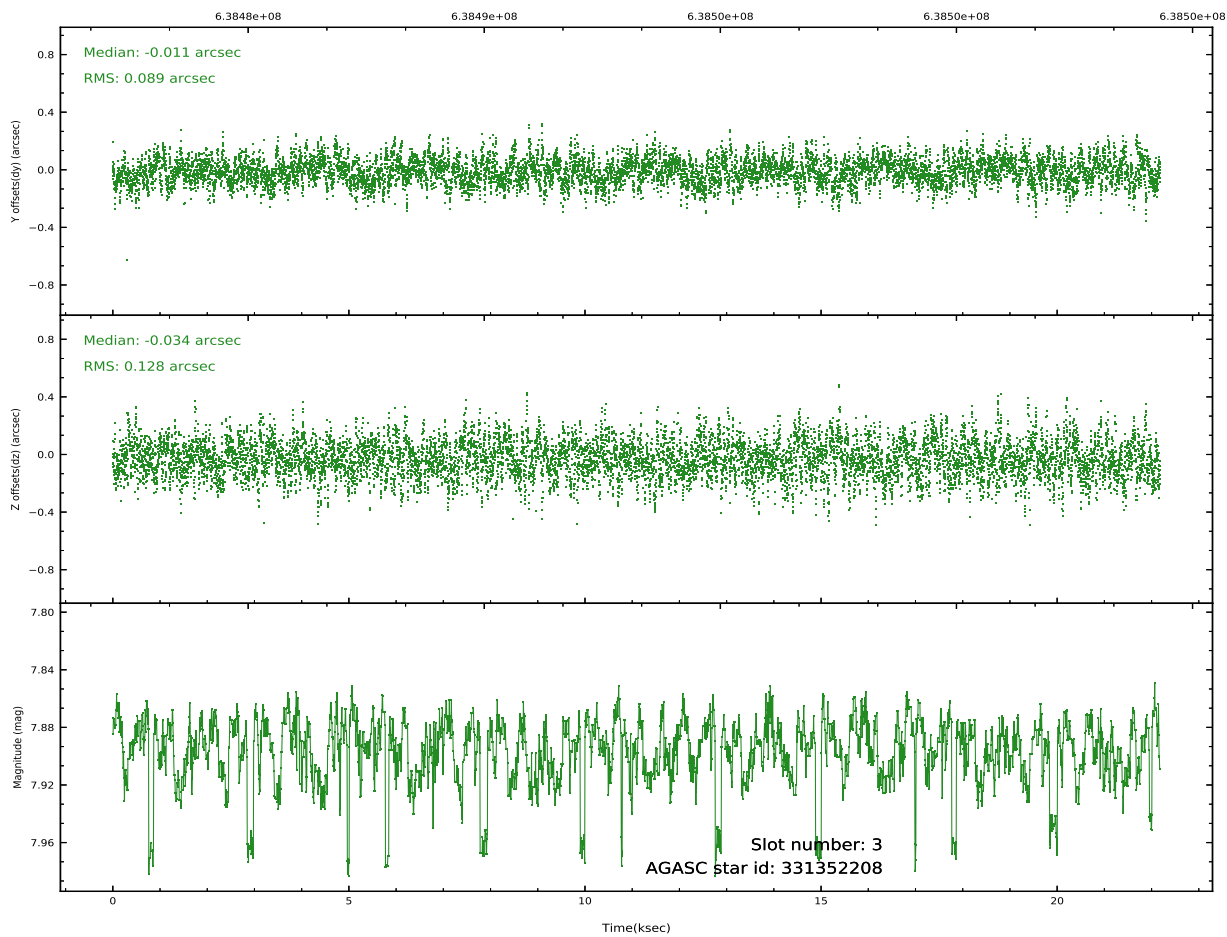
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2.4 Star Slots

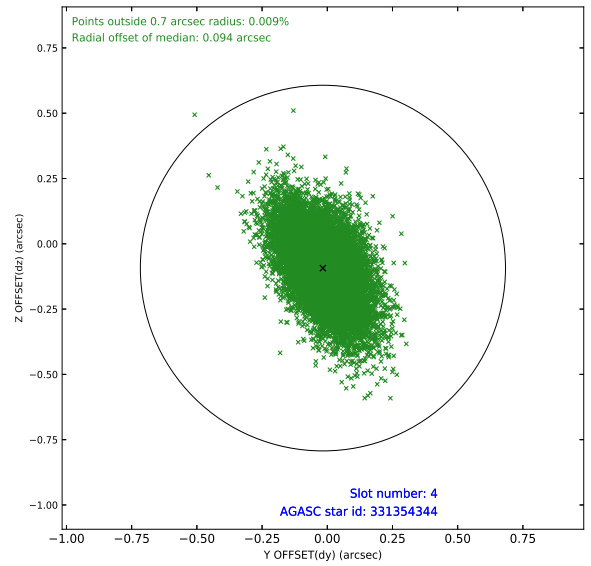
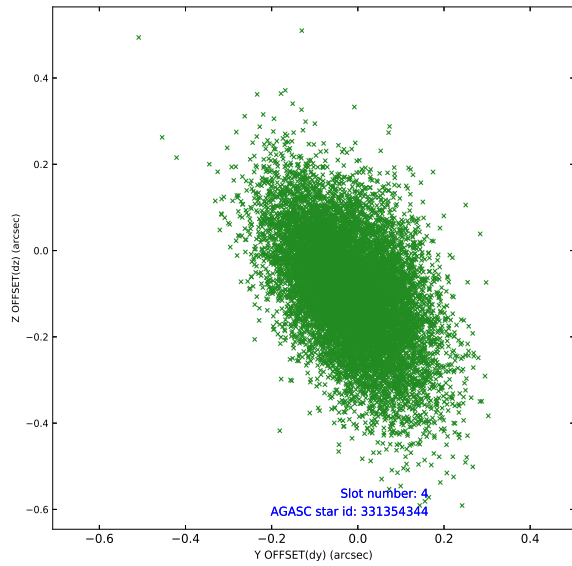
2.4.1 Slot 3



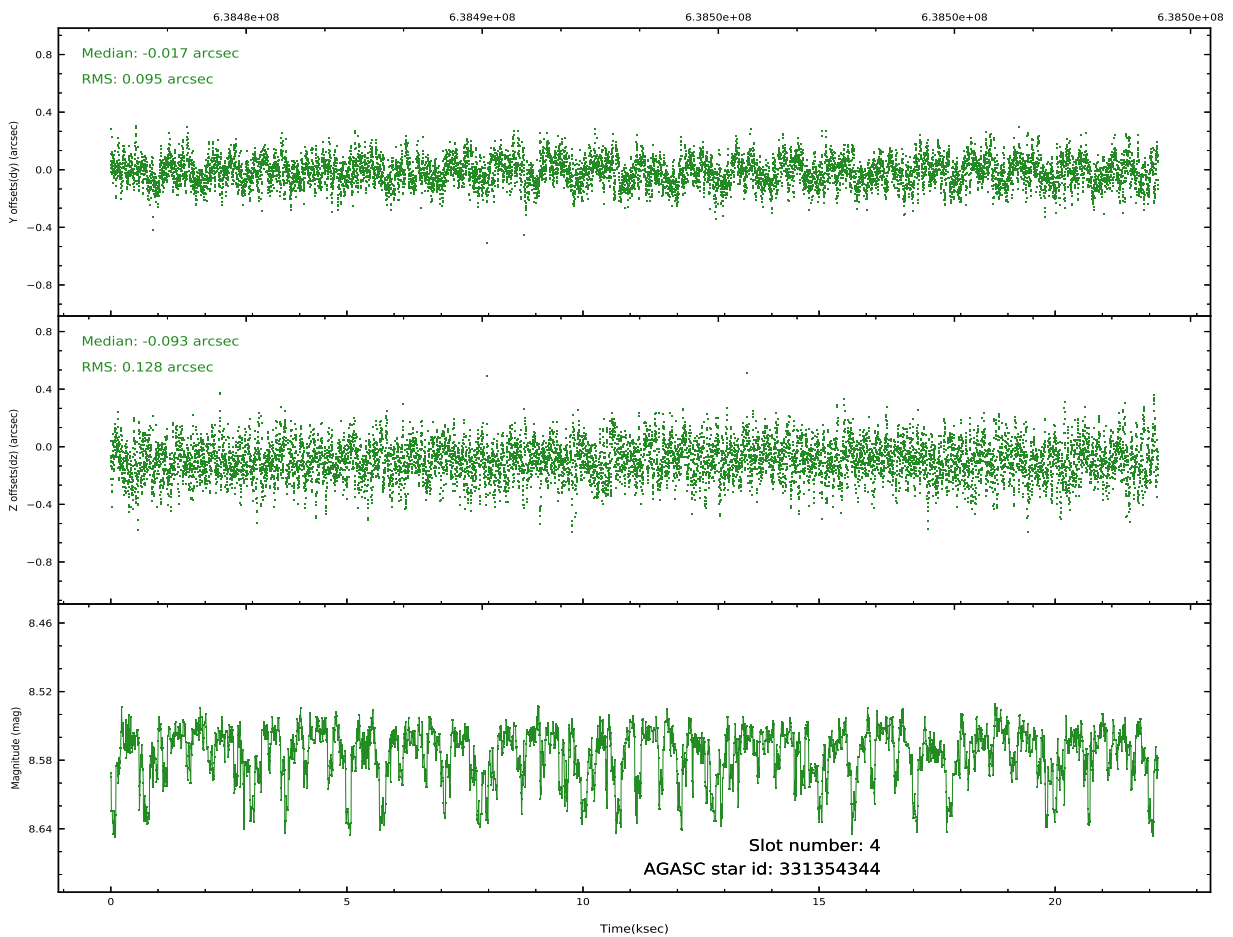
Time (s)



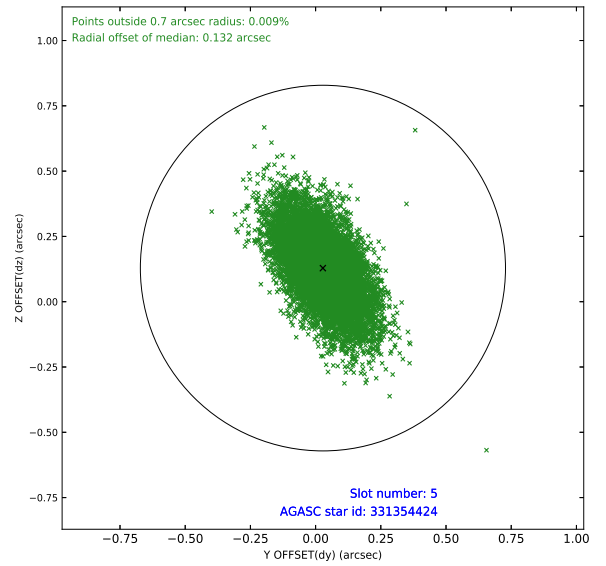
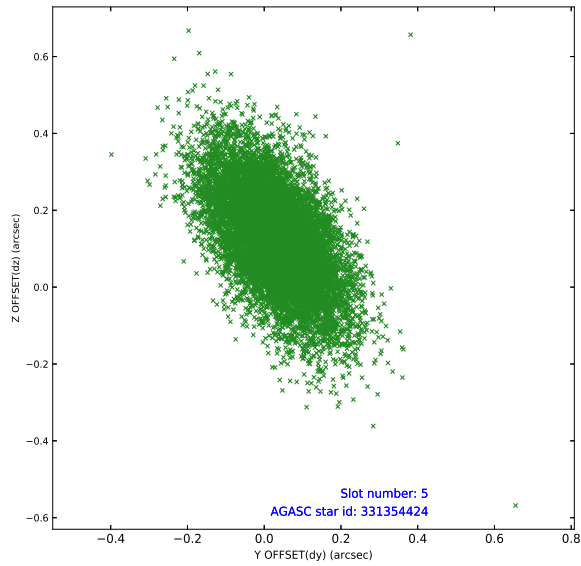
2.4.2 Slot 4



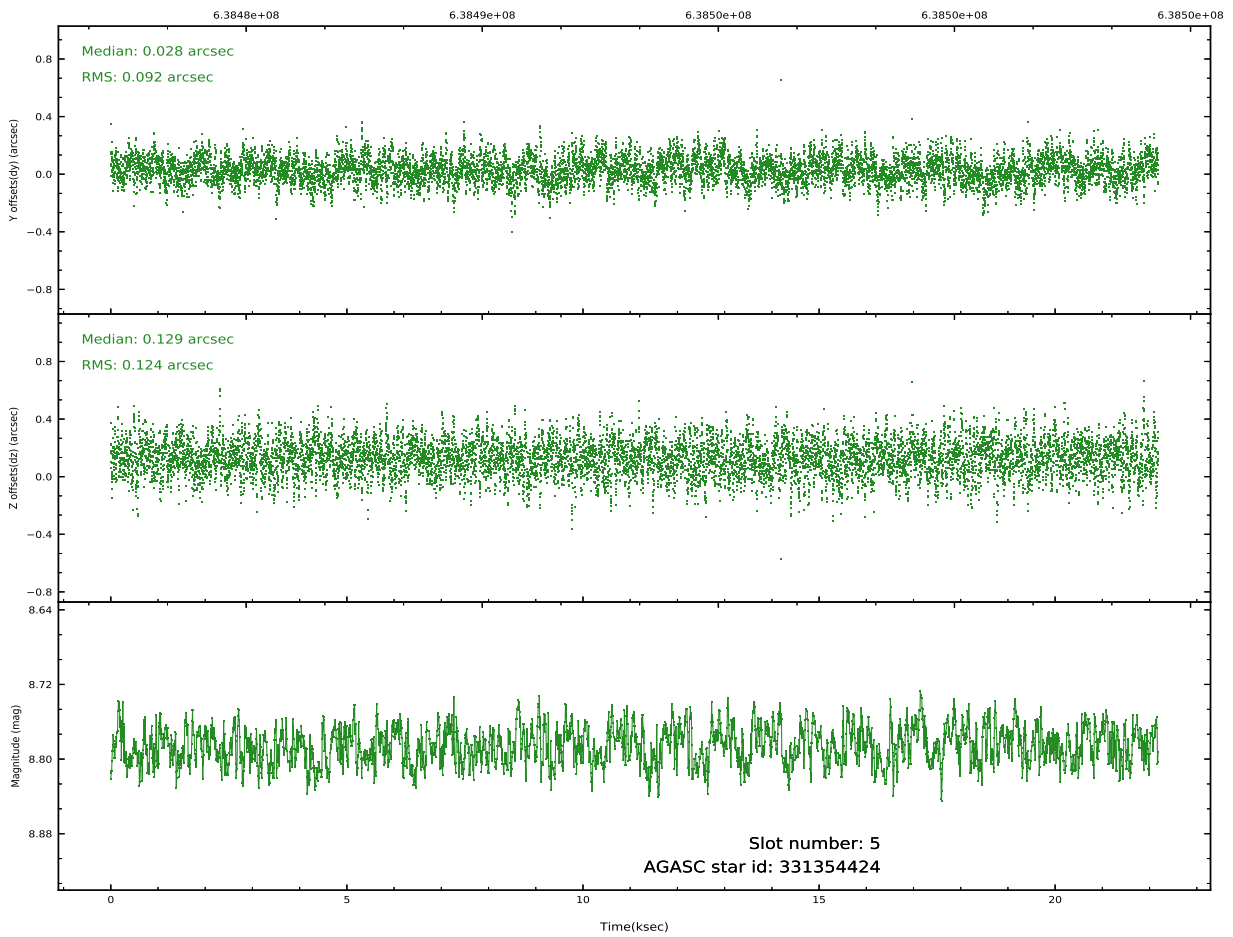
Time (s)



2.4.3 Slot 5

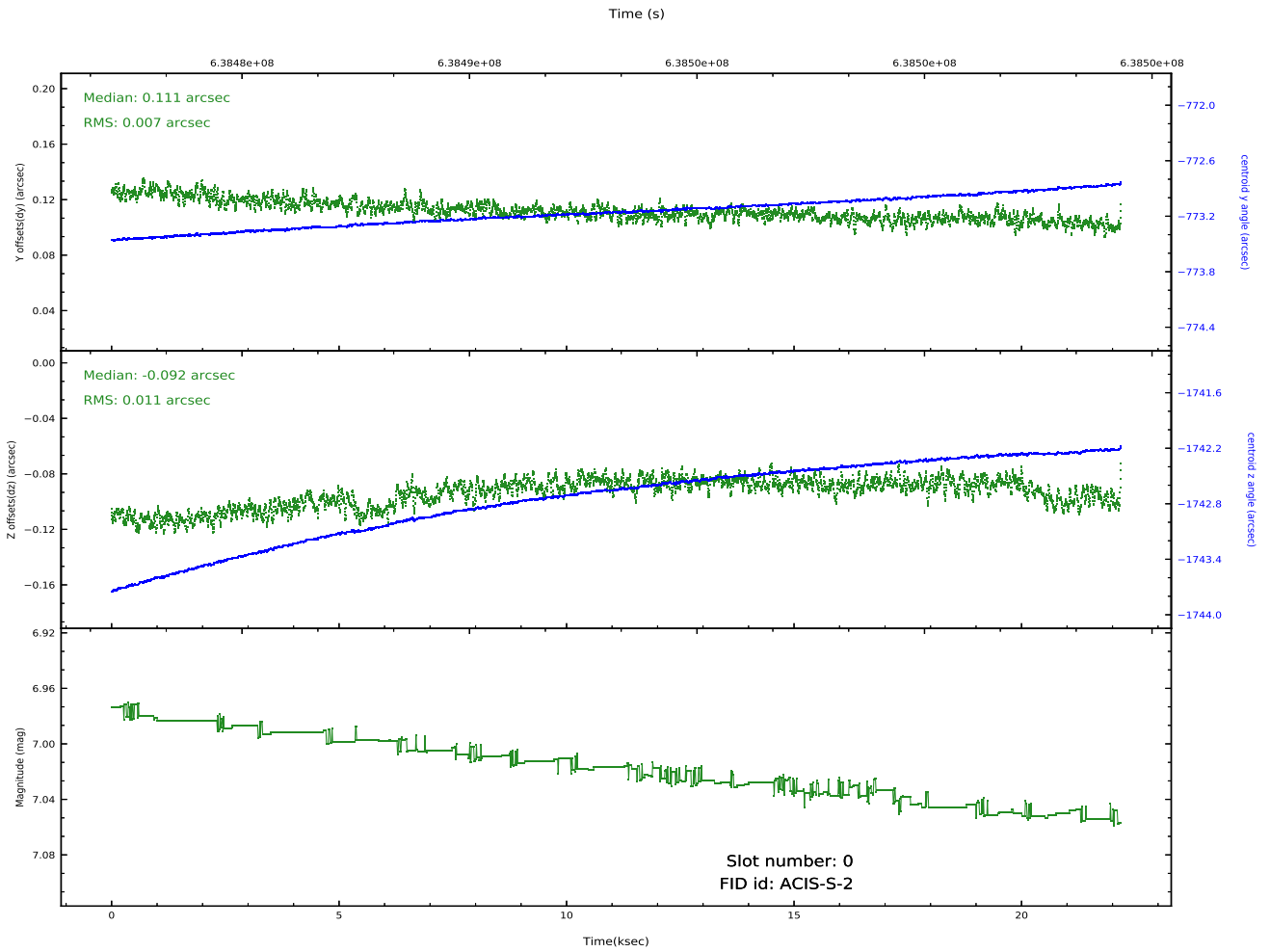
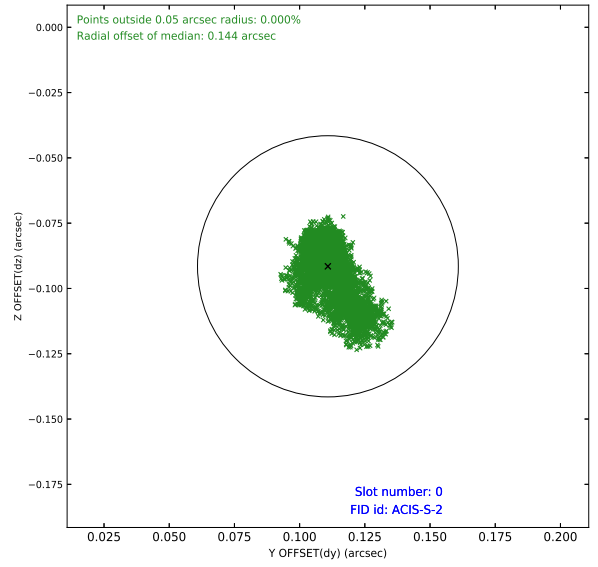
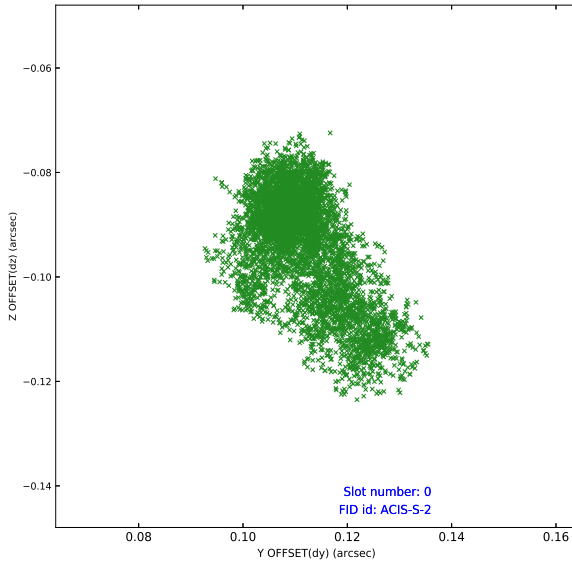


Time (s)

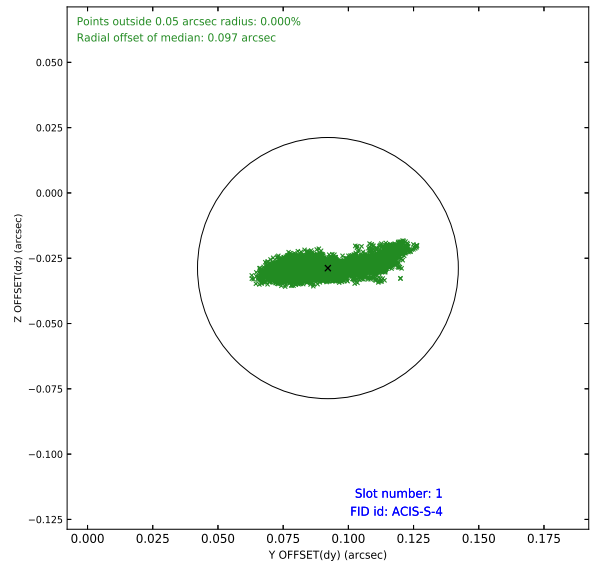
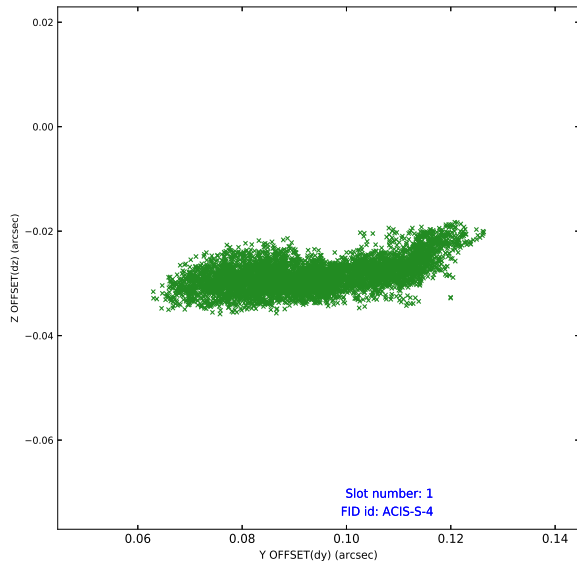


2.5 FID Slots

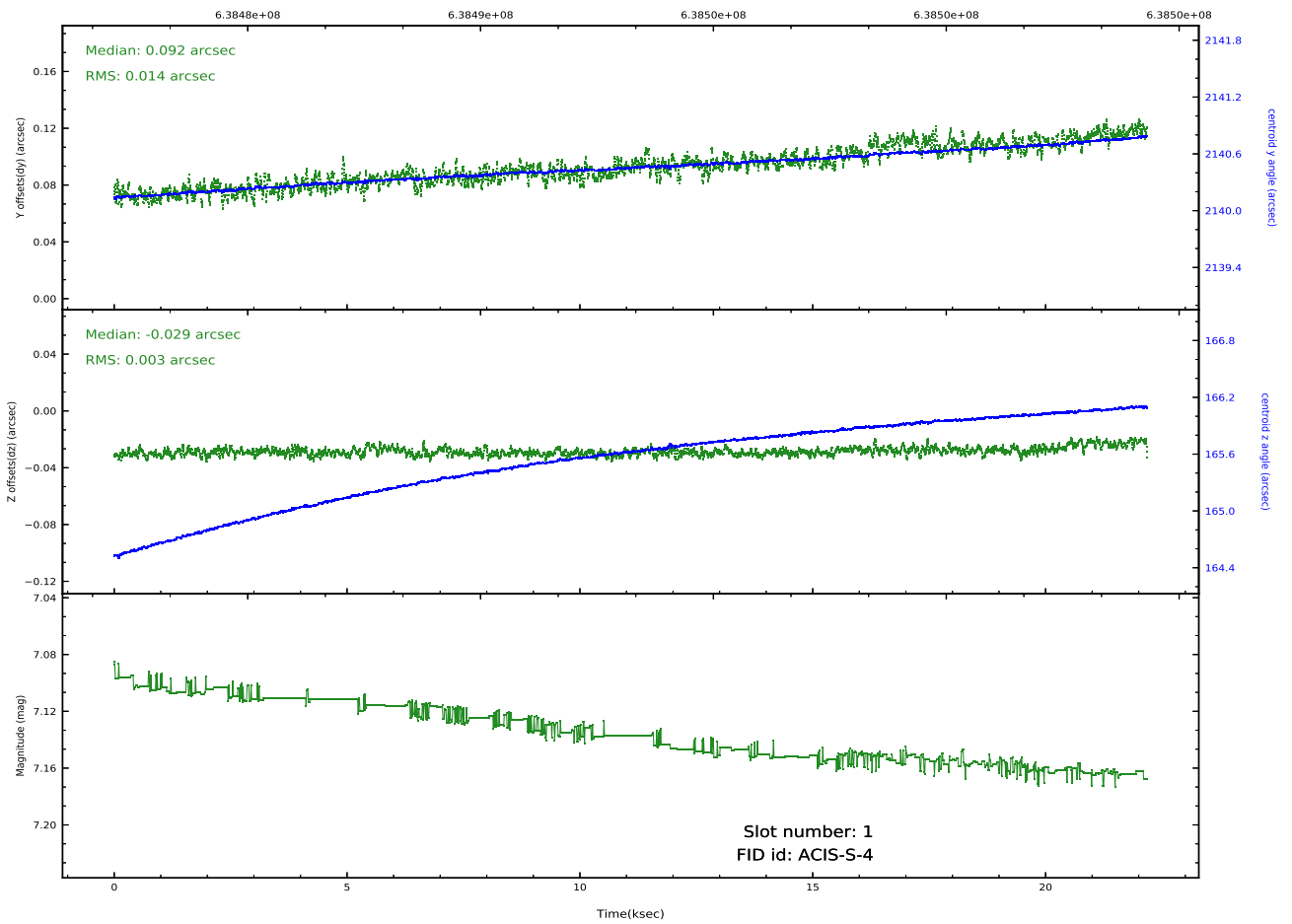
2.5.1 Slot 0



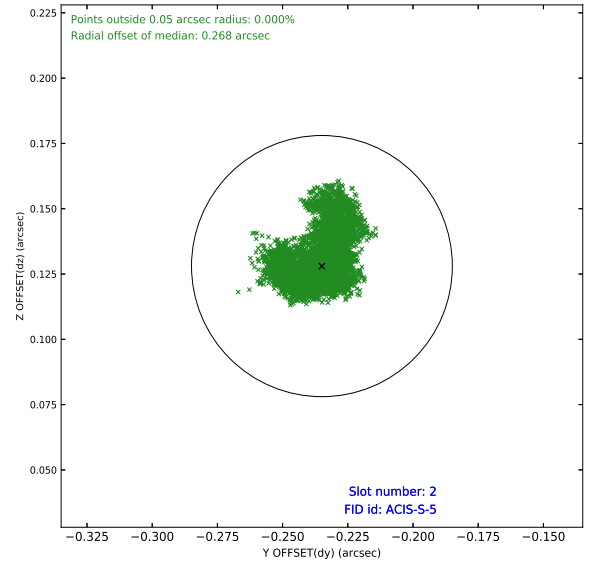
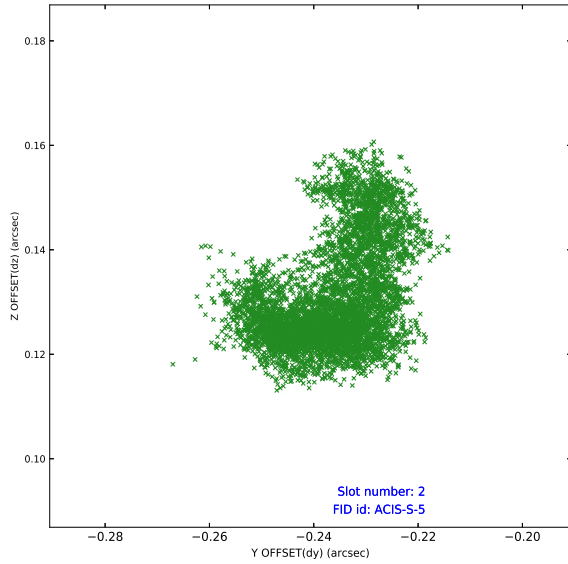
2.5.2 Slot 1



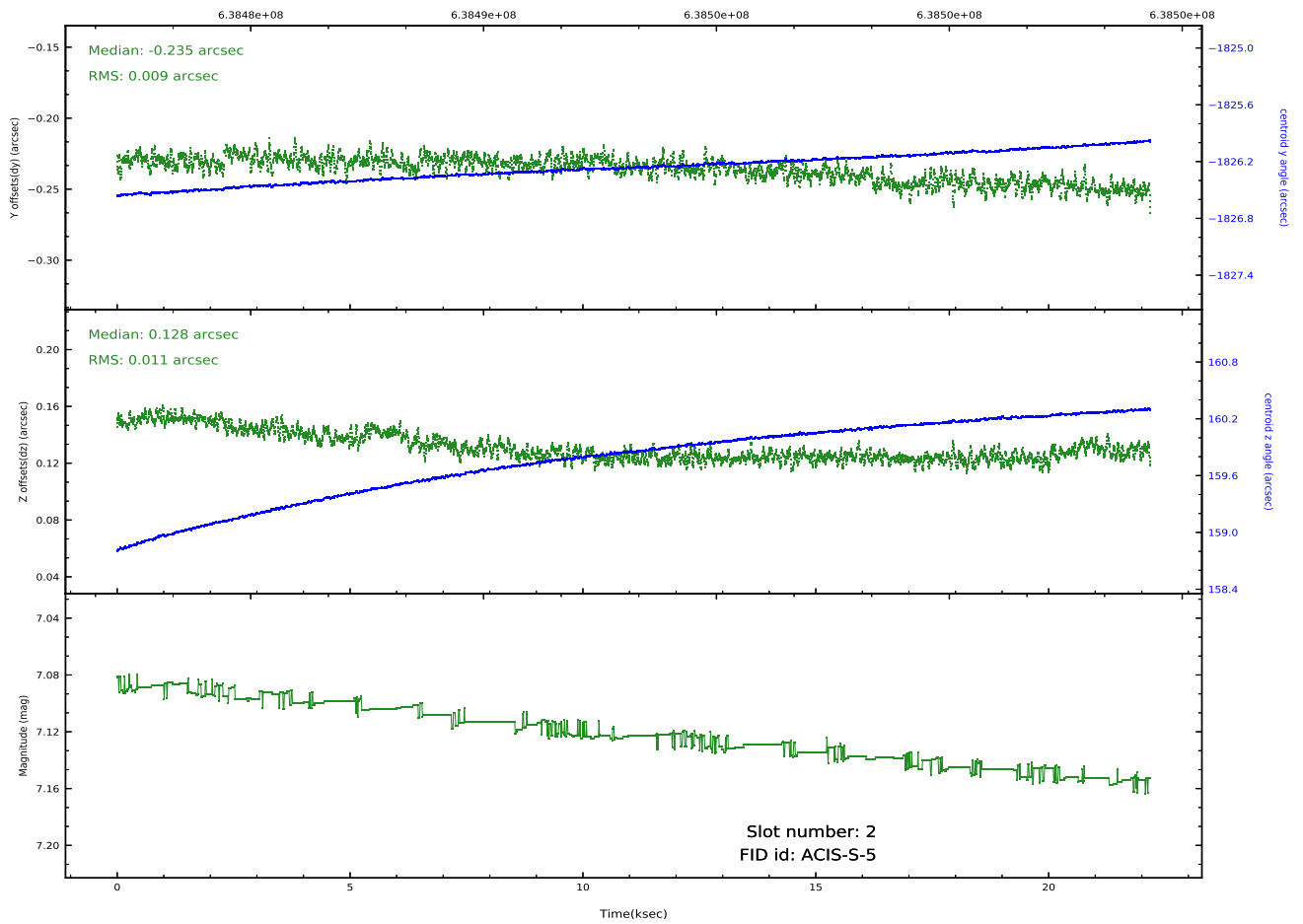
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.963

A.2 Comments

The guide stars in slots 6 and 7 were removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of these slots from the solution.