

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20152 - L2 Version 2
Chandra X-Ray Center

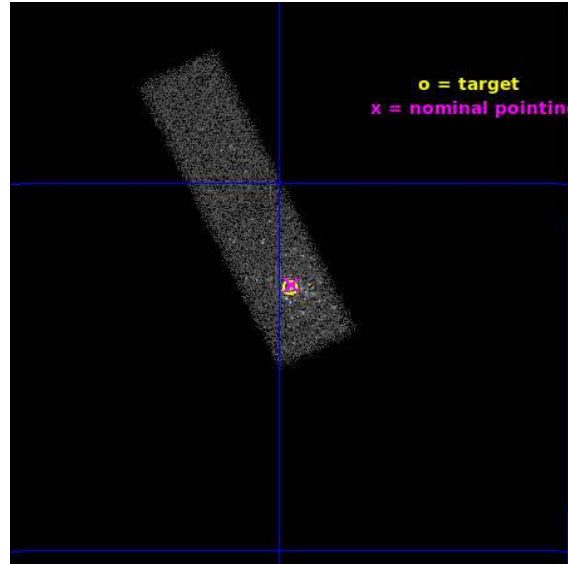
L2 Processing Date : Oct 26 2020

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1 Front

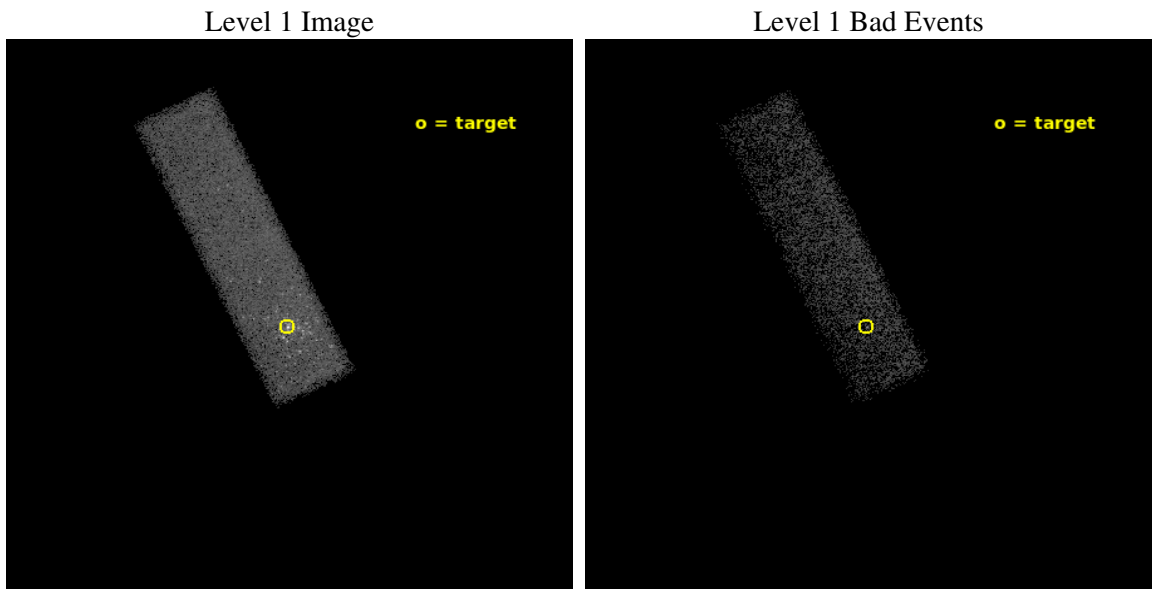
seq_num	201174	Sequence number
obs_id	20152	Observation id
title	A unique opportunity to observe the extreme massive binary HD 93129A near periastron passage	Proposal title
observer	Santiago del Palacio	Principal investigator
object	HD 93129A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	160.989583	Observer's specified target RA [deg]
dec_targ	-59.547583	Observer's specified target Dec [deg]
ra_nom	160.98815315103	Nominal RA [deg]
dec_nom	-59.546211993659	Nominal Dec [deg]
roll_nom	244.23076502011	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25060.420280695	Sum of GTIs [s]
liveltime	23837.553772182	Livetime [s]
ontime7	25060.420280695	Sum of GTIs [s]
l2events	43773	Number of level 2 events



2 OBI

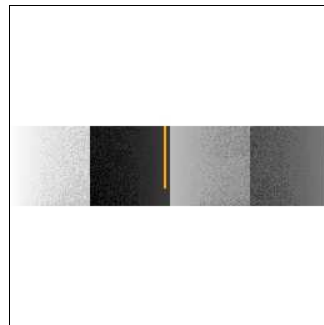
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	25060.420280695	Sum of GTIs [s]
caldbver	4.9.3	 	ontime7	25060.420280695	Sum of GTIs [s]
date	2020-10-26T09:32:04	Date and time of file creation	l1events	77186	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

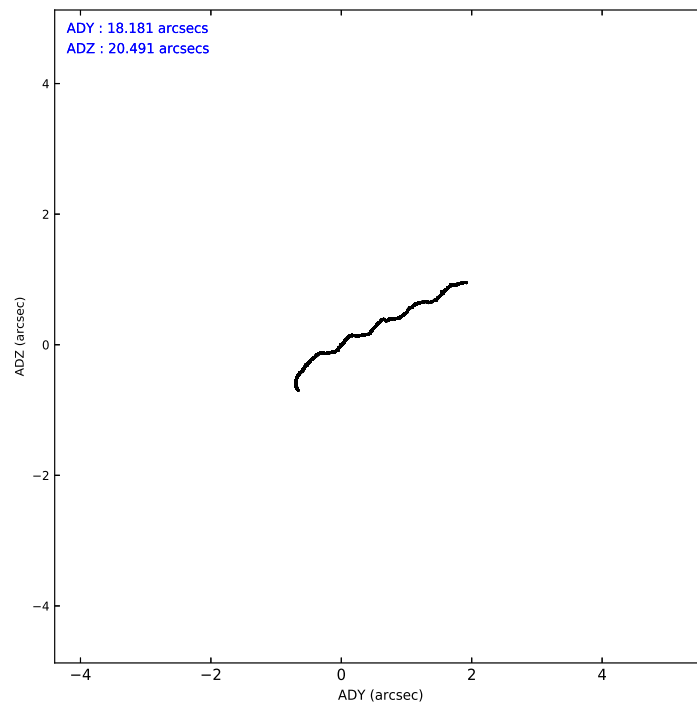
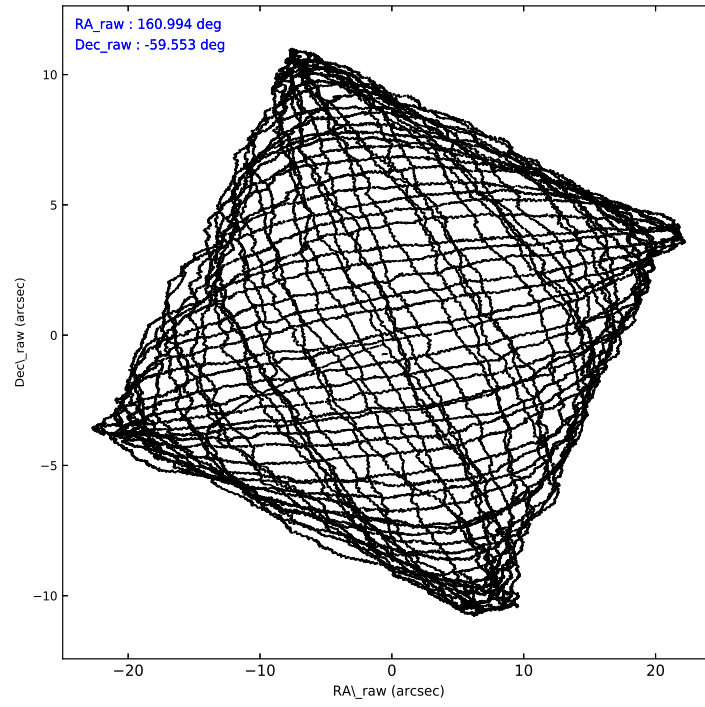
	ccd 7
level 1 events	77186
rejected events	32318
rejected %	41%

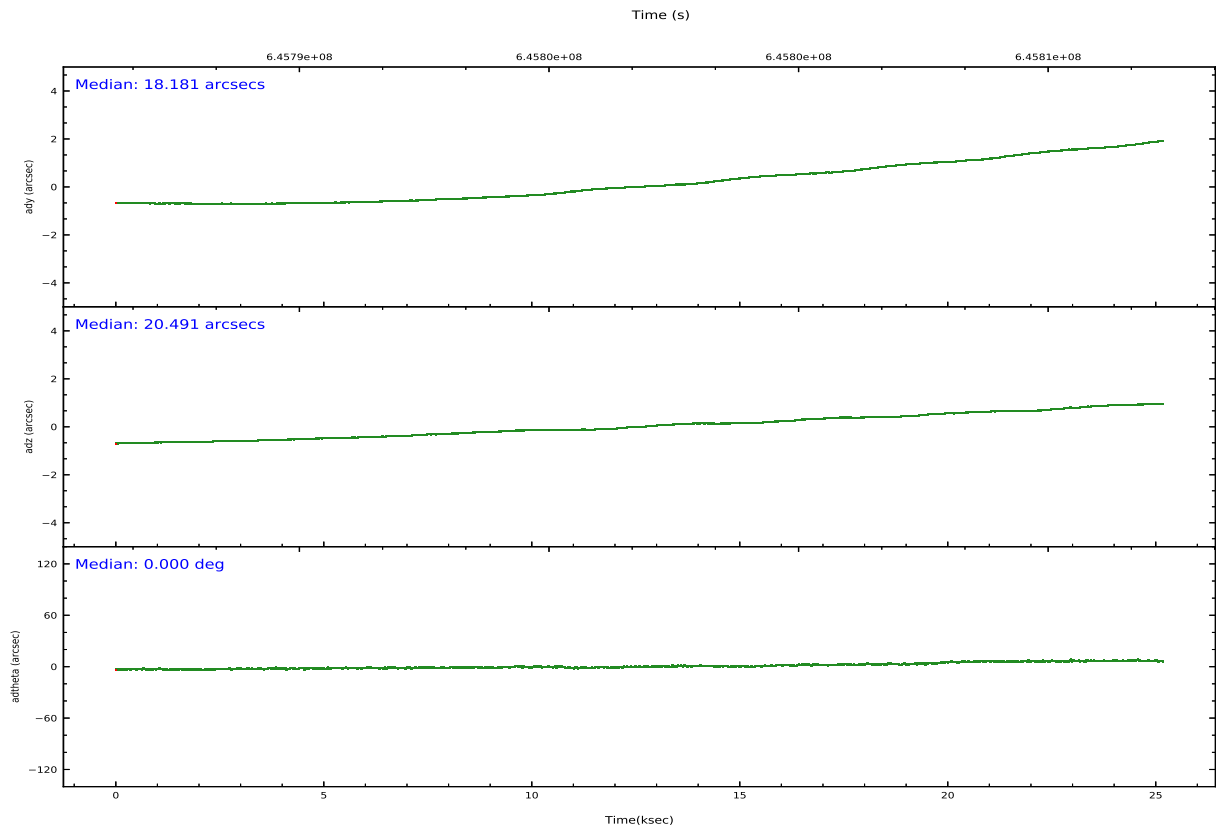
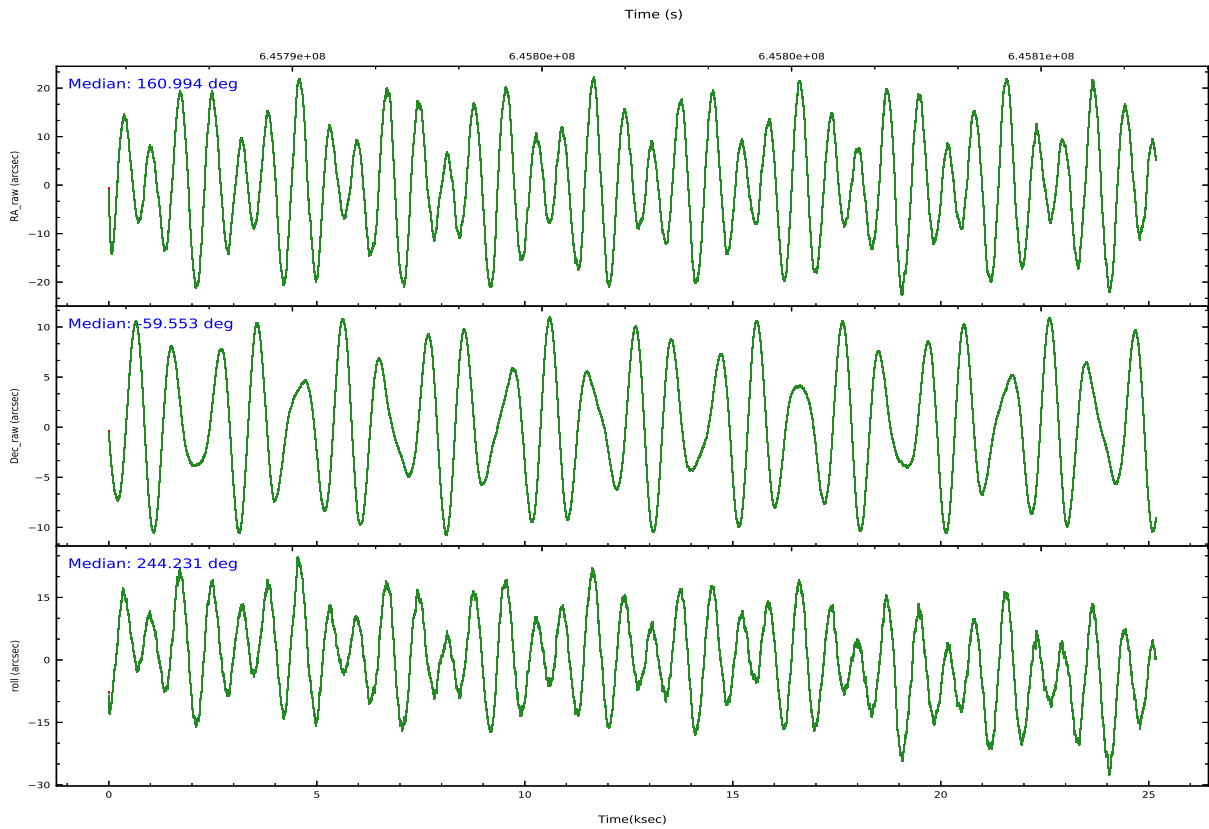
	ccd 7
grade 0 events	6866
	8%
grade 1 events	109
	0%
grade 2 events	9984
	12%
grade 3 events	5078
	6%
grade 4 events	5036
	6%
grade 5 events	6439
	8%
grade 6 events	17904
	23%
grade 7 events	25770
	33%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	160.989364	160.98815315103	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-59.526192	-59.546211993659	Subarray start row	385	385
[deg] Pointing Roll	244.077880	244.23076502011	Subarray row count	256	256
[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	0.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	645785763.184000	645784881.21529			
Observation start date	2018-06-19T08:54:54	2018-06-19T08:41:21			
[s] Observation end time (MET)	645810763.184000	645811679.84187			
Observation end date	2018-06-19T15:51:34	2018-06-19T16:07:59			
Read mode	TIMED	TIMED			

2.3 Aspect





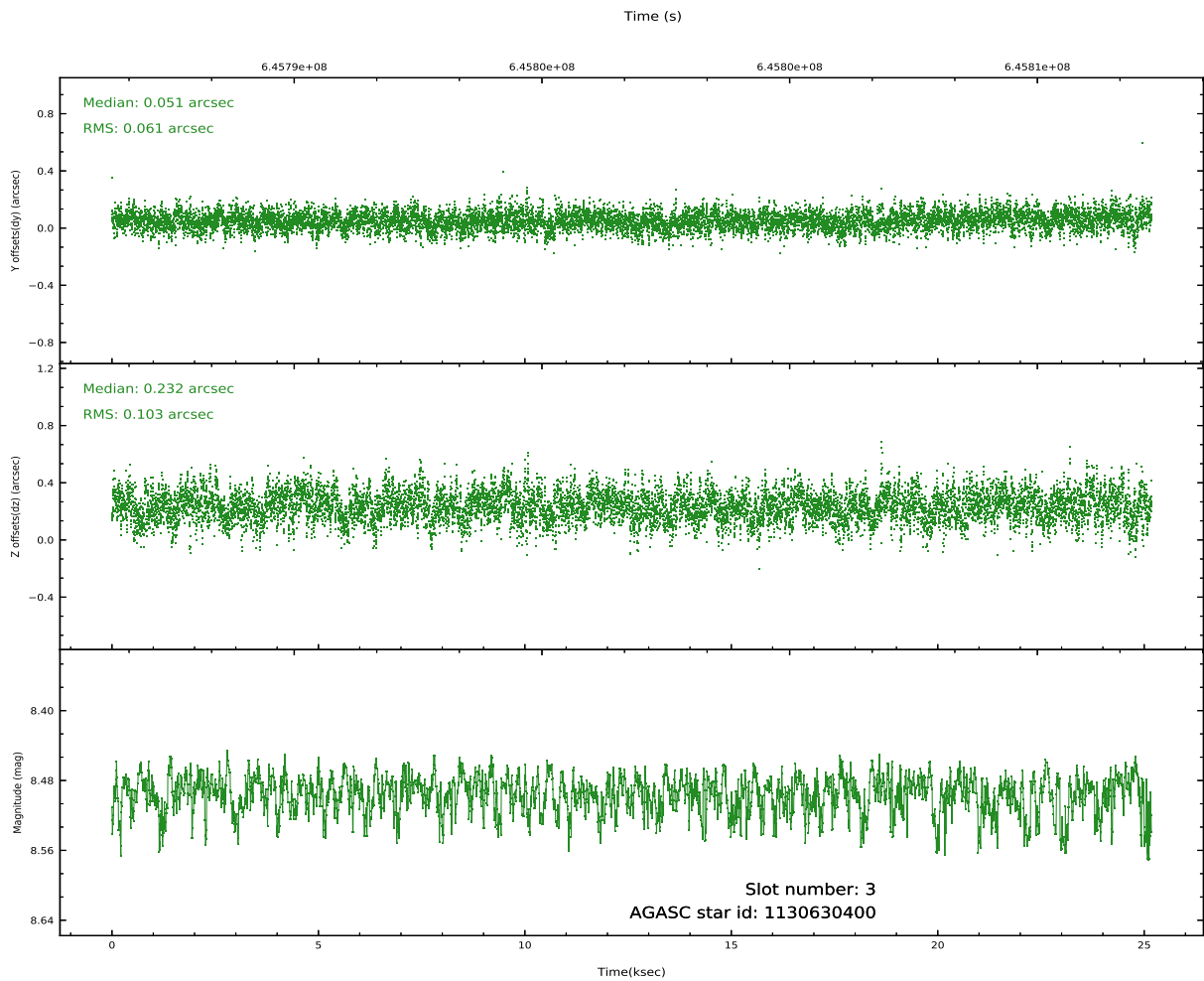
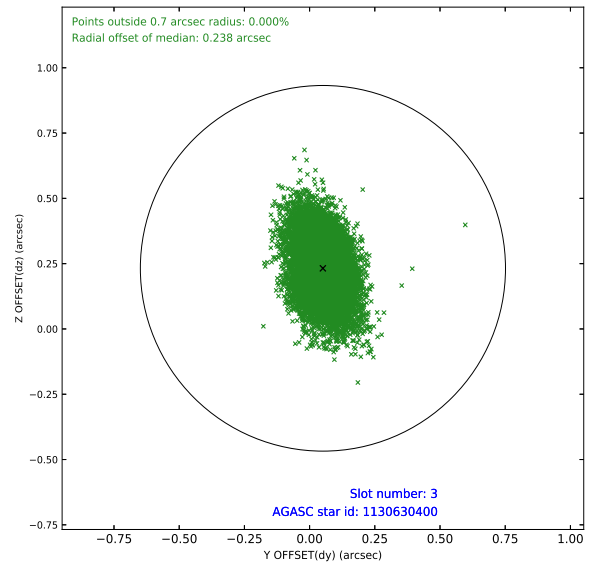
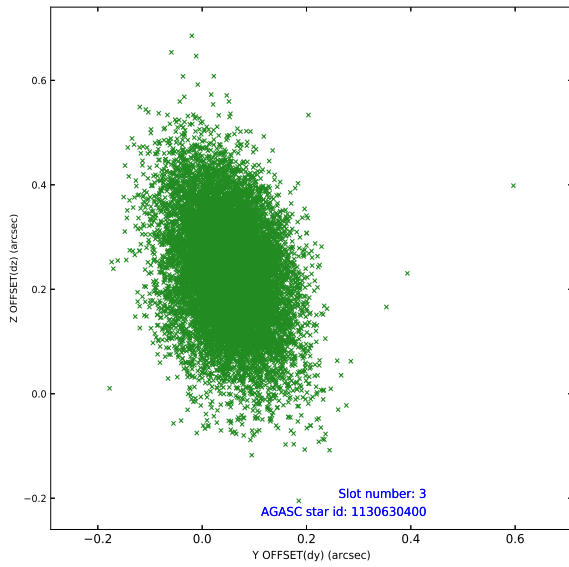
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-1	7.20	6142	1.000	0.298	-0.186	0.014	0.024	0.000000	0.000000	924.72	-1737
1	FID		ACIS-S-2	7.12	6142	1.000	-0.011	-0.050	0.015	0.027	0.000000	0.000000	-771.43	-1742
2	FID		ACIS-S-5	7.20	6141	1.000	-0.311	0.246	0.013	0.021	0.000000	0.000000	-1824.91	160
3	GUIDE	used	1130630400	8.49	12274	1.000	0.051	0.232	0.124	0.215	160.235909	-58.888840	-1443.35	-2260
4	GUIDE	used	1130632200	7.55	12277	1.000	-0.102	0.017	0.118	0.212	161.433843	-59.407820	-736.83	547
5	GUIDE	used	1130647960	8.61	12273	1.000	0.166	-0.047	0.140	0.231	160.287471	-59.247776	-329.94	-1597
6	GUIDE	used	1130640672	8.27	12279	1.000	-0.091	-0.010	0.142	0.252	162.096044	-59.540805	-820.56	1846
7	GUIDE	used	1174033144	8.49	12269	1.000	-0.026	-0.192	0.127	0.219	161.168741	-60.059230	1585.36	1129

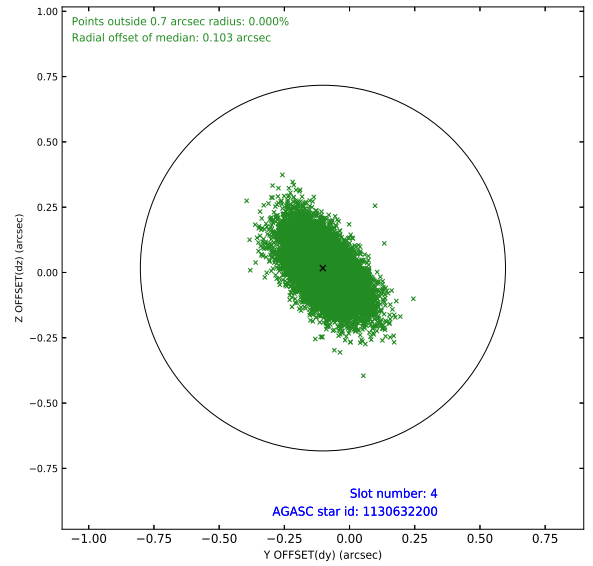
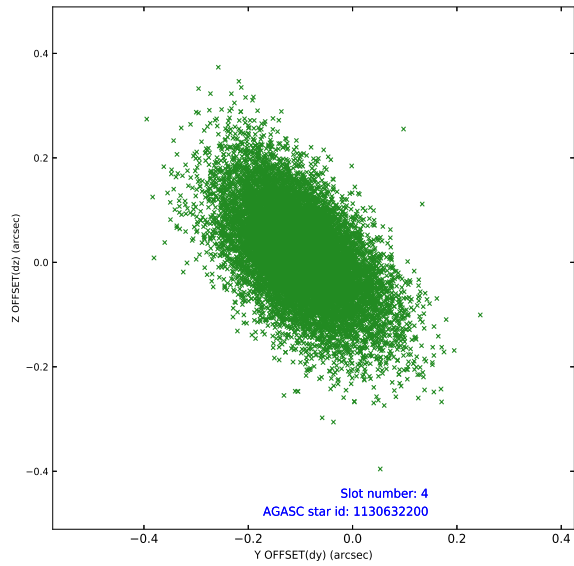
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2.4 Star Slots

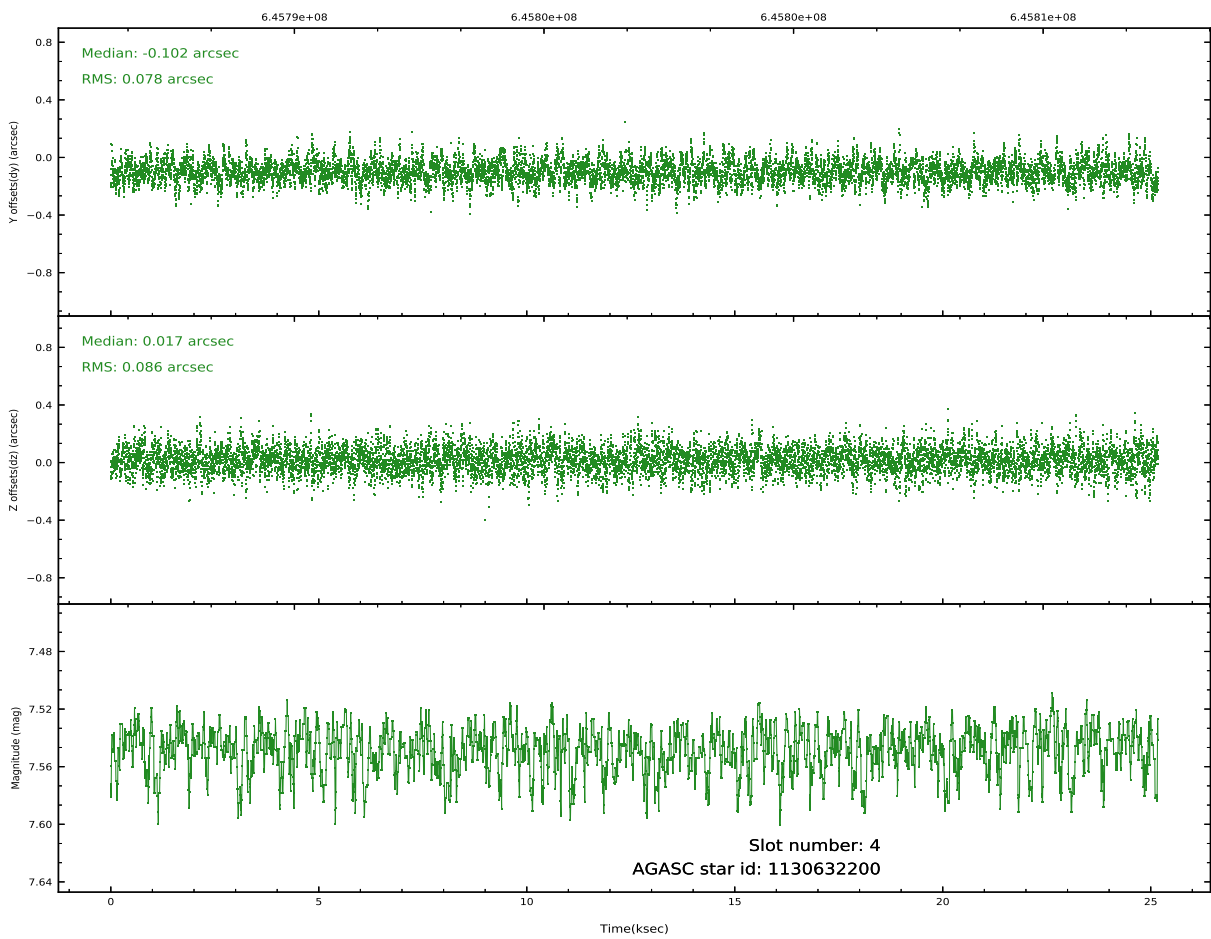
2.4.1 Slot 3



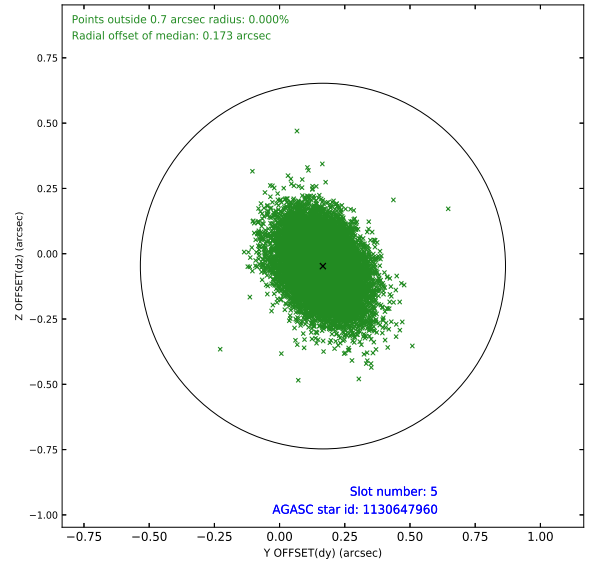
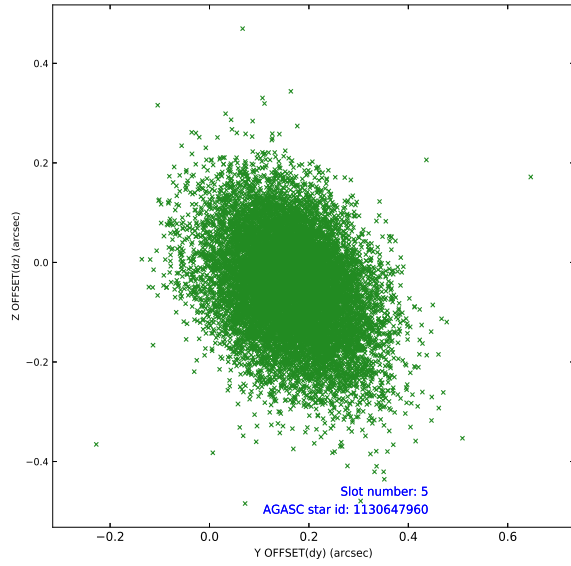
2.4.2 Slot 4



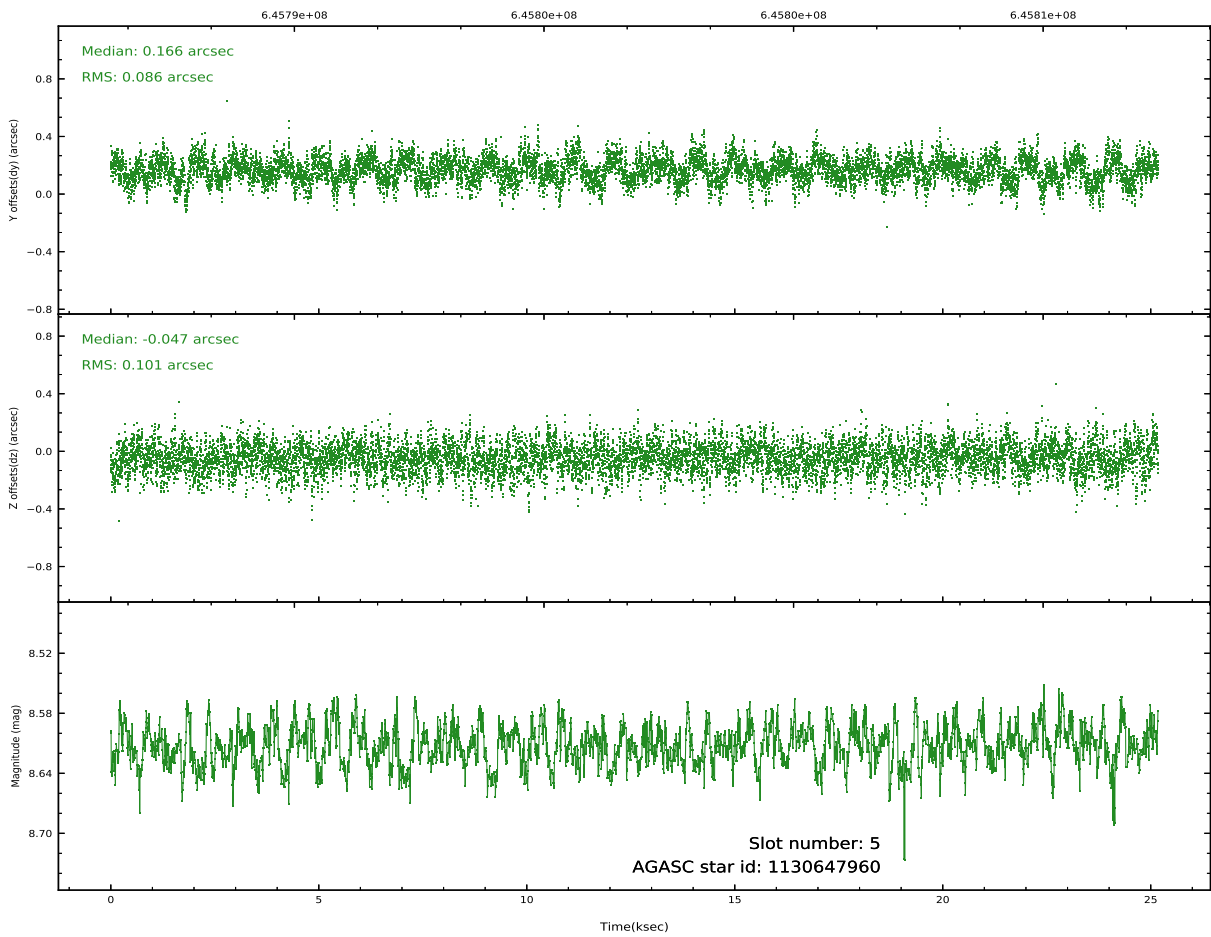
Time (s)



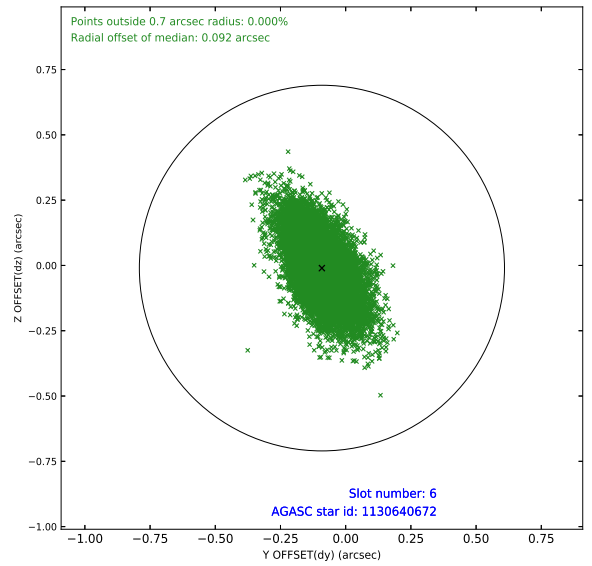
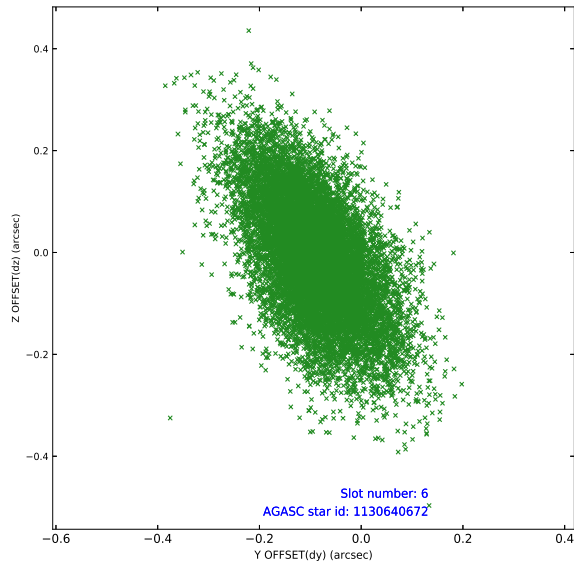
2.4.3 Slot 5



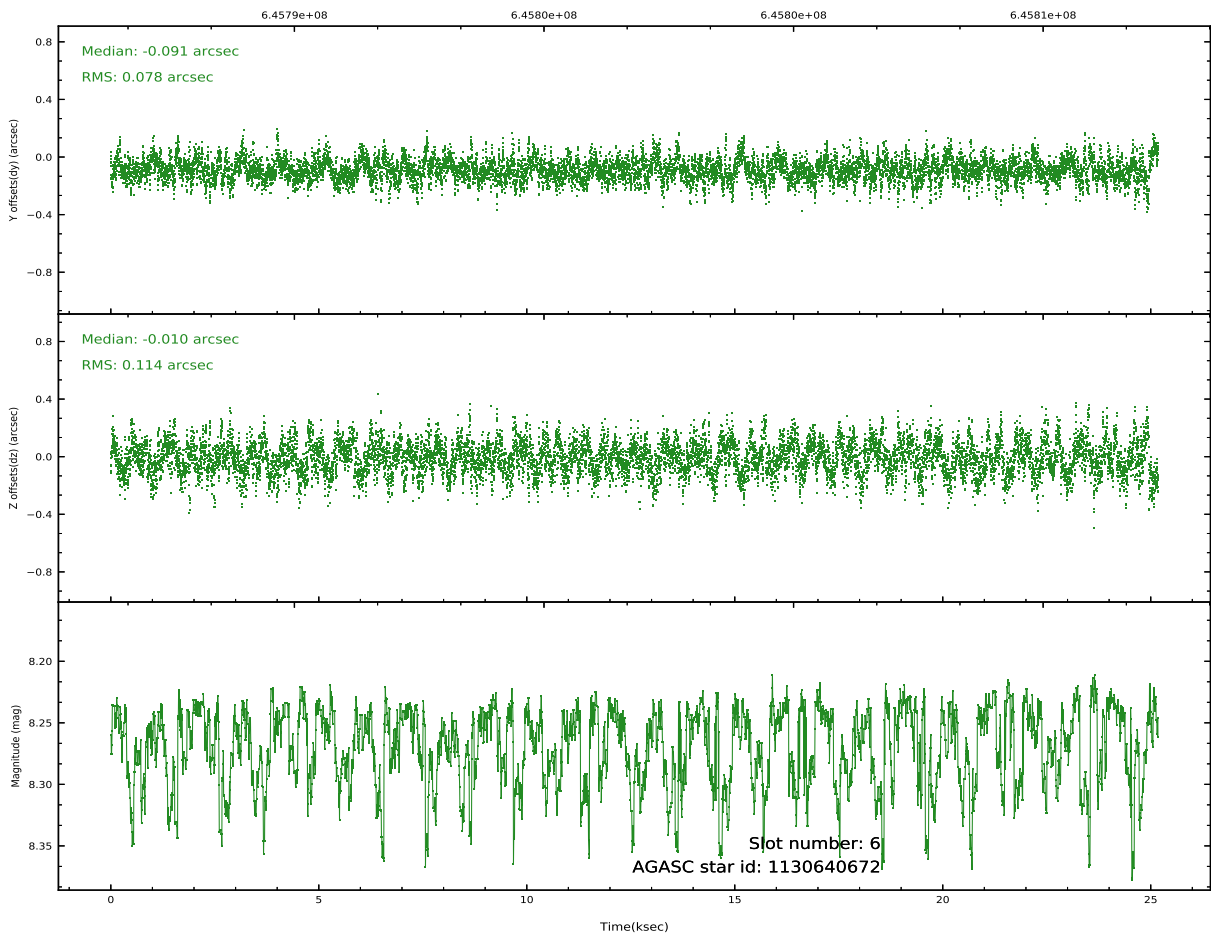
Time (s)



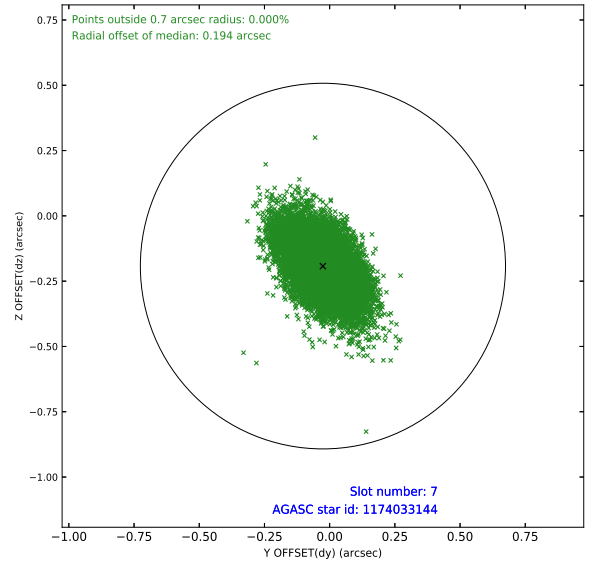
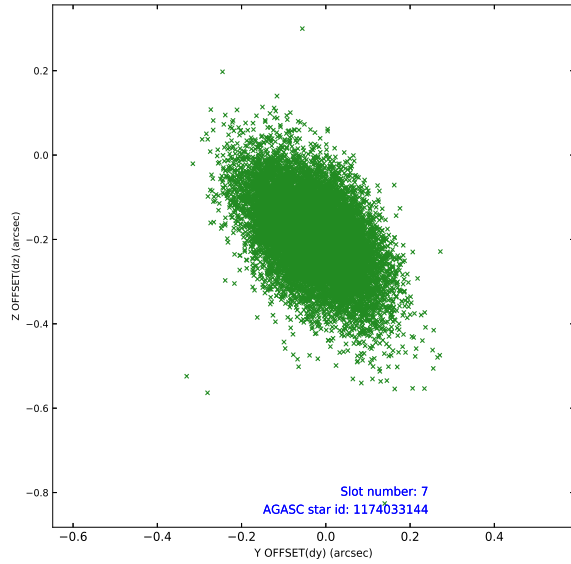
2.4.4 Slot 6



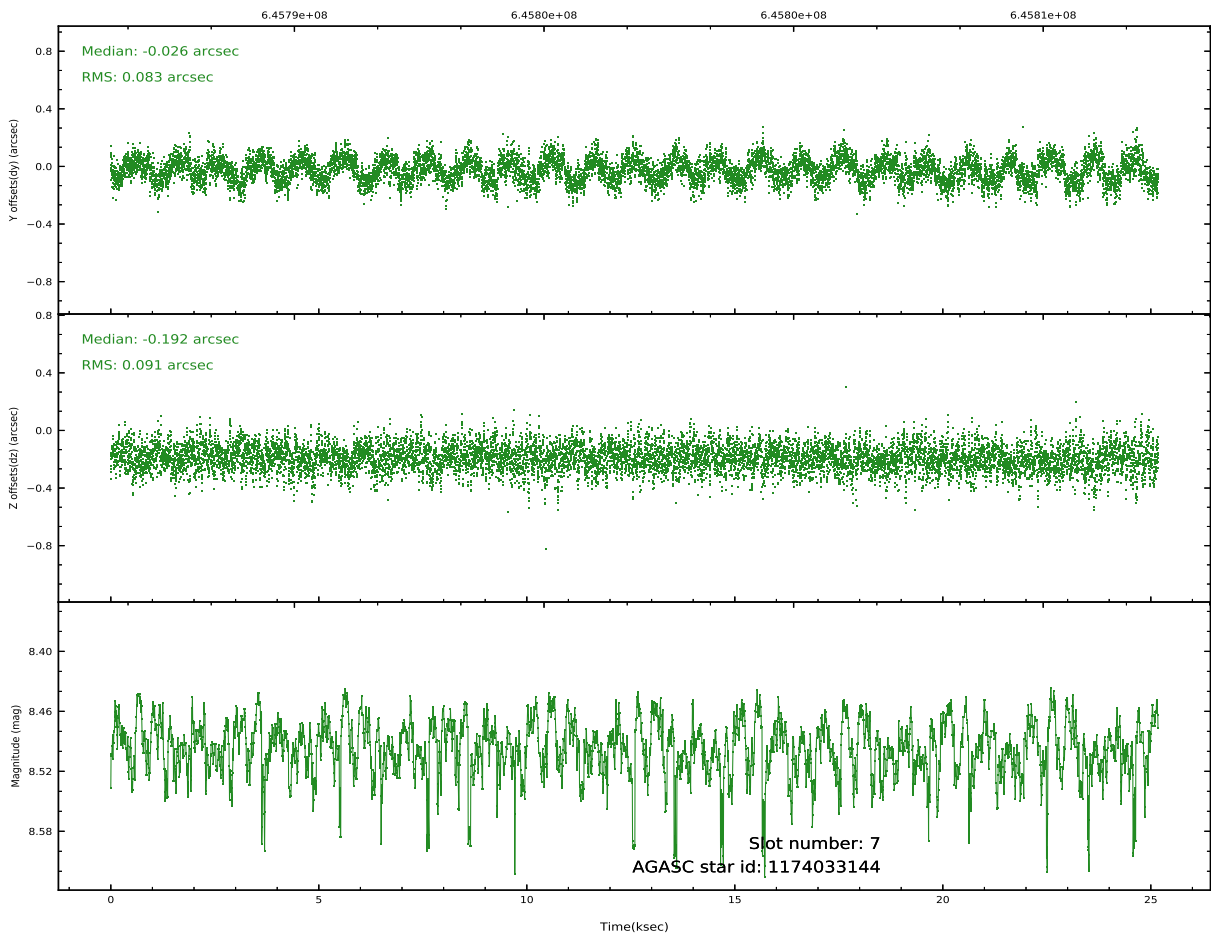
Time (s)



2.4.5 Slot 7

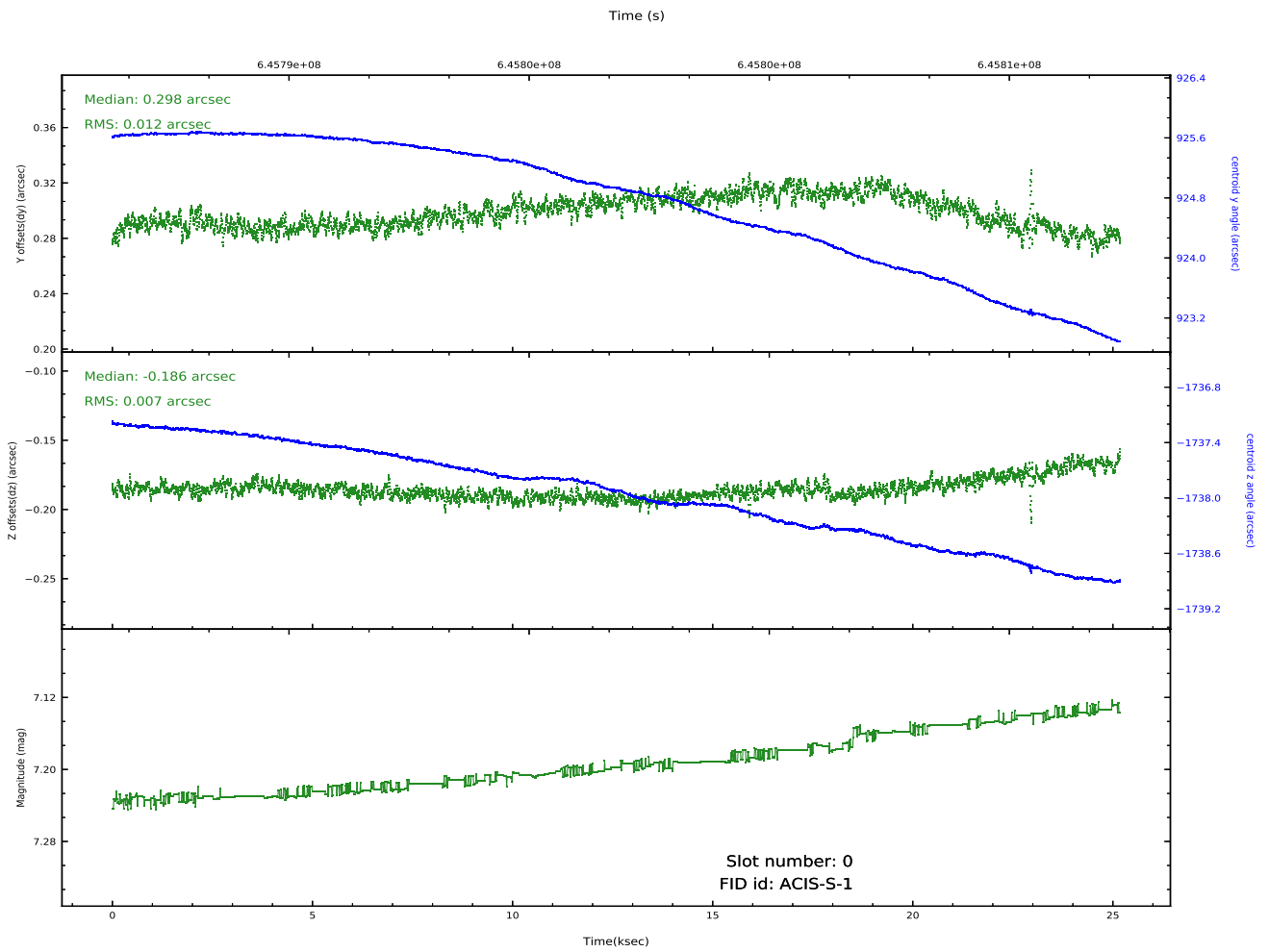
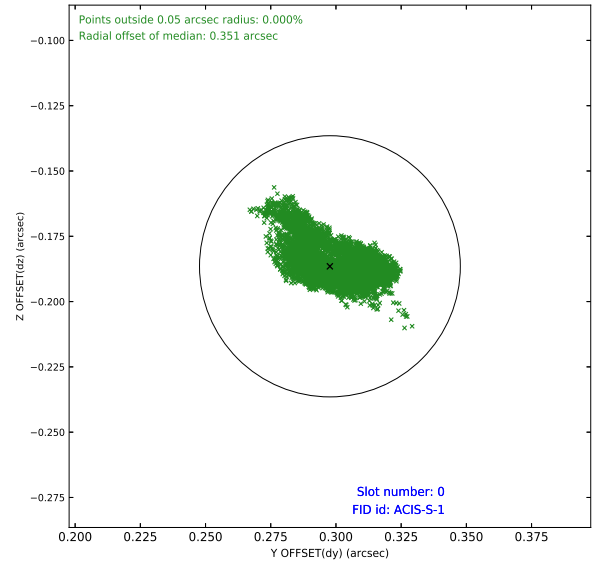
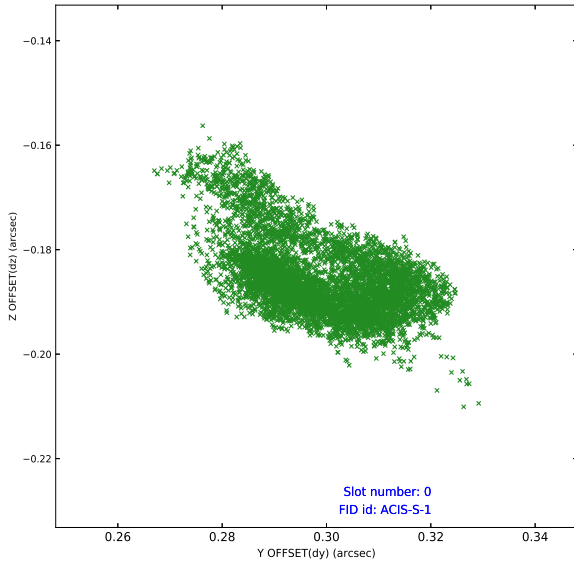


Time (s)

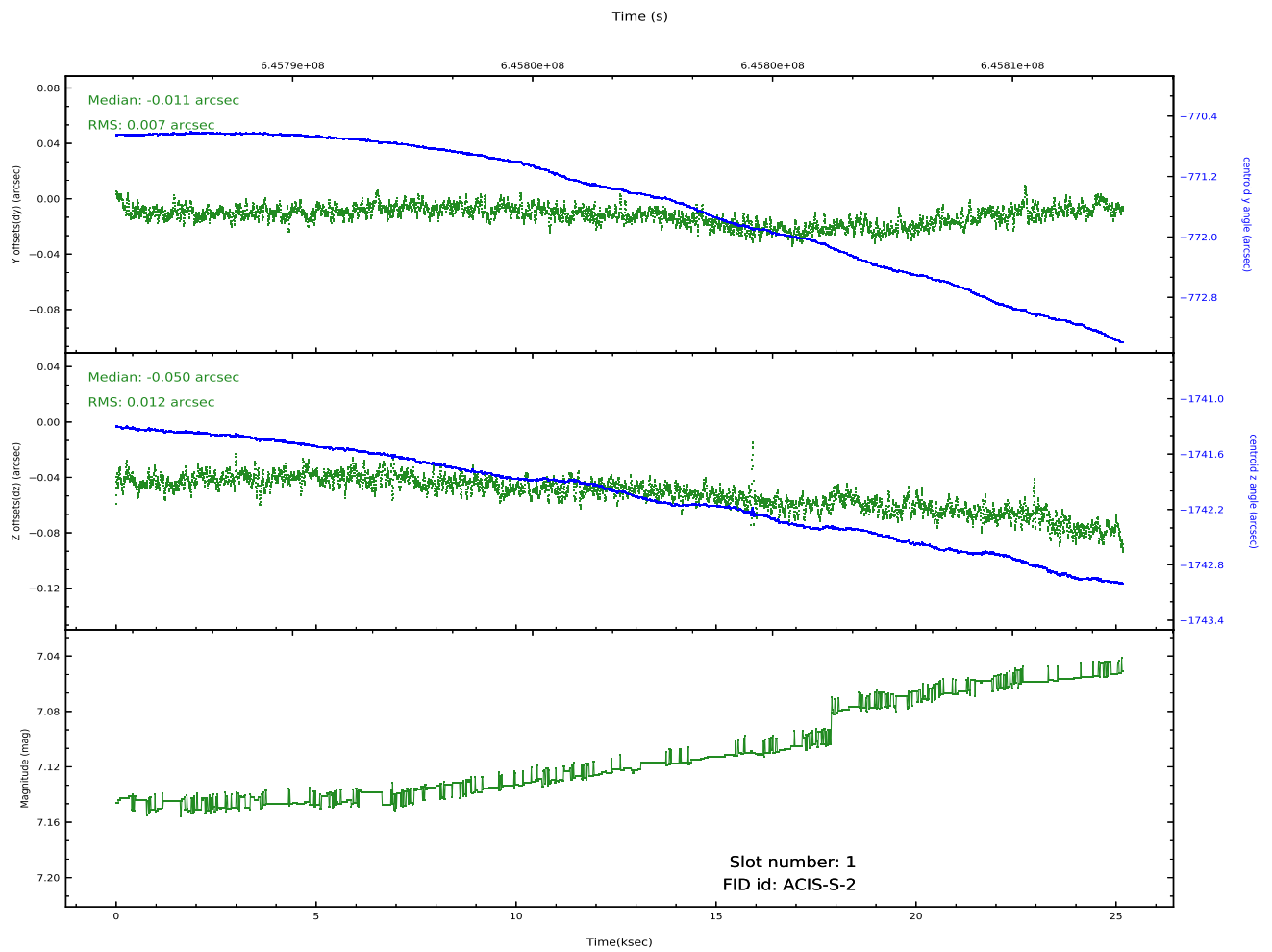
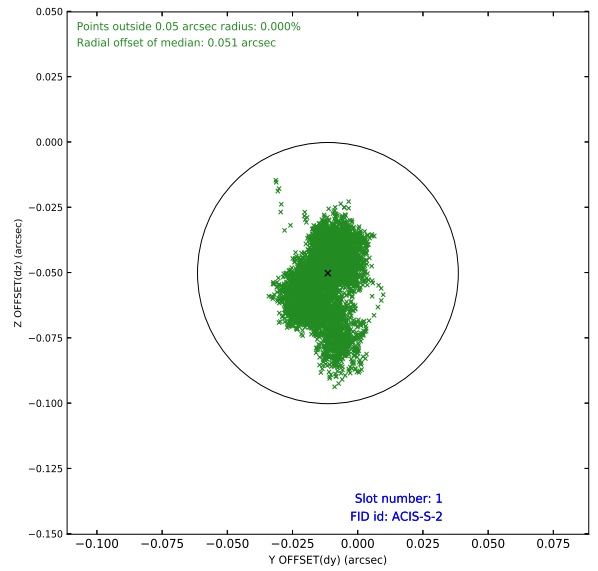
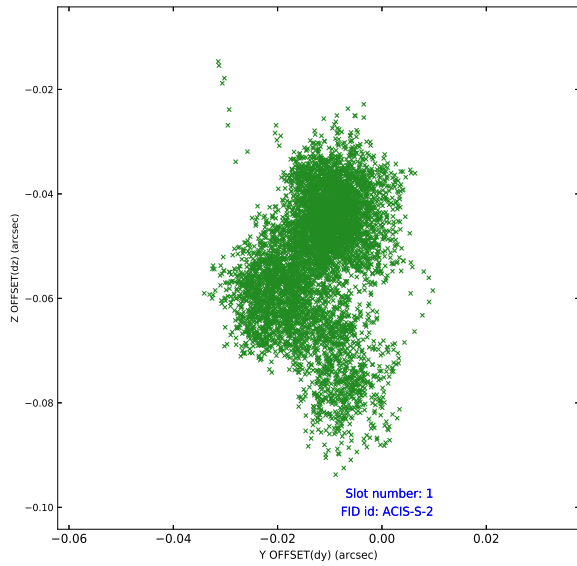


2.5 FID Slots

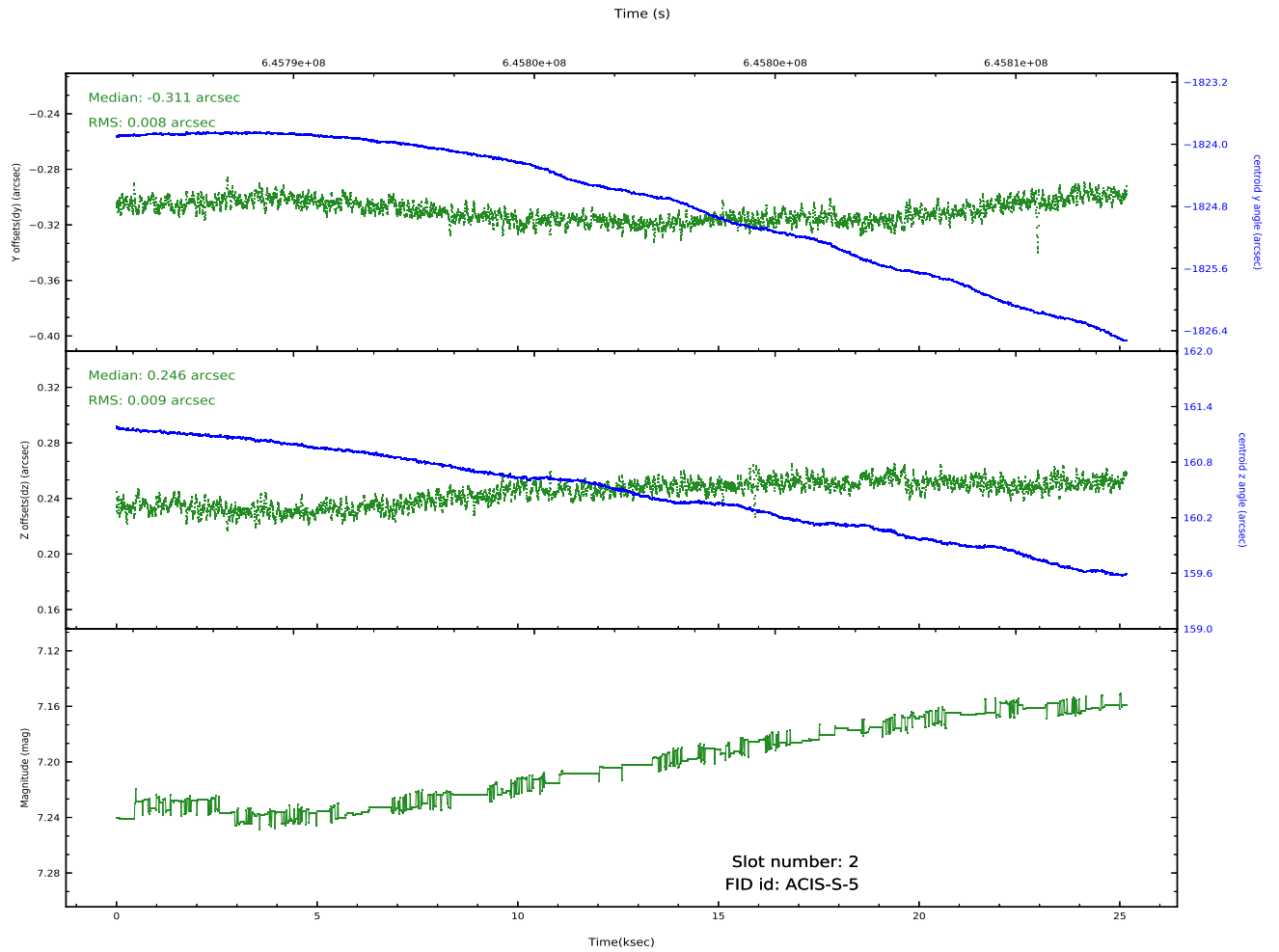
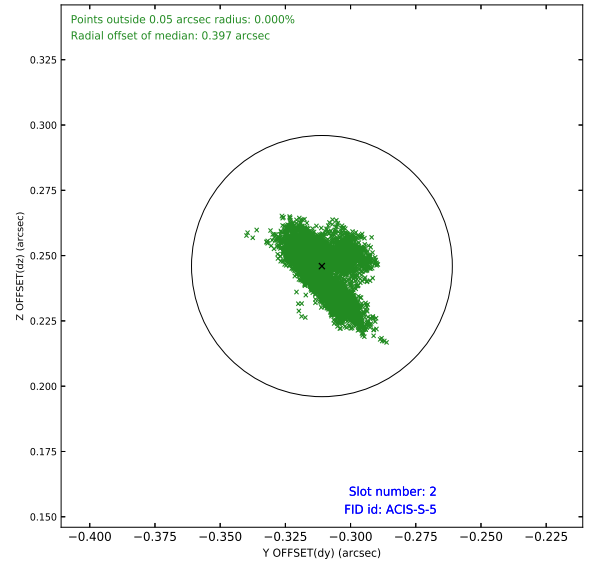
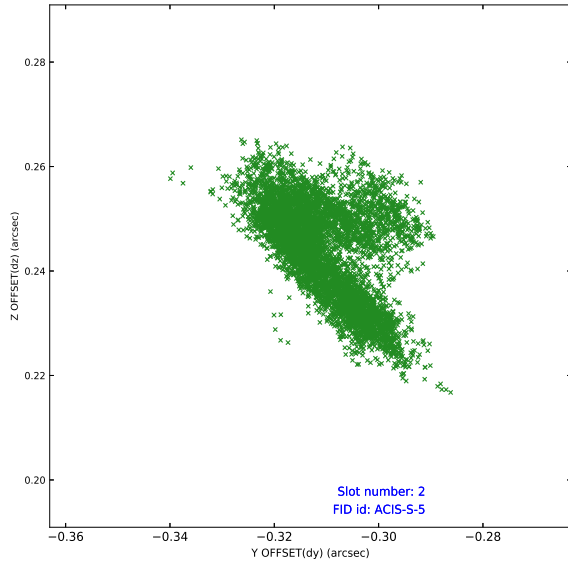
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.060420278668

A.2 Comments

Joint Proposal: NuSTAR