

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20153 - L2 Version 2
Chandra X-Ray Center

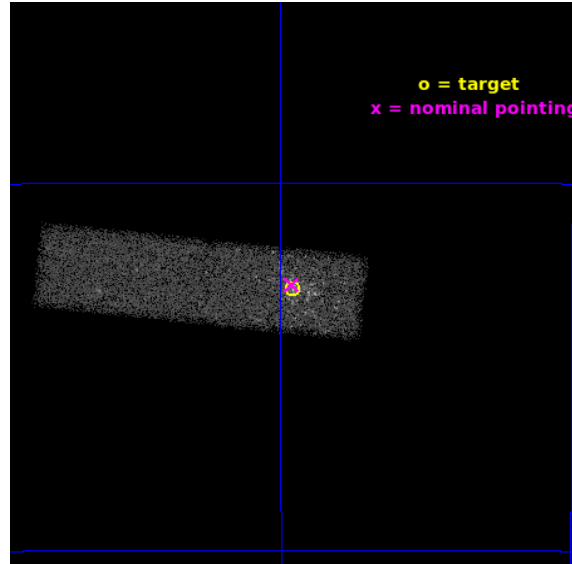
L2 Processing Date : Oct 27 2020

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1 Front

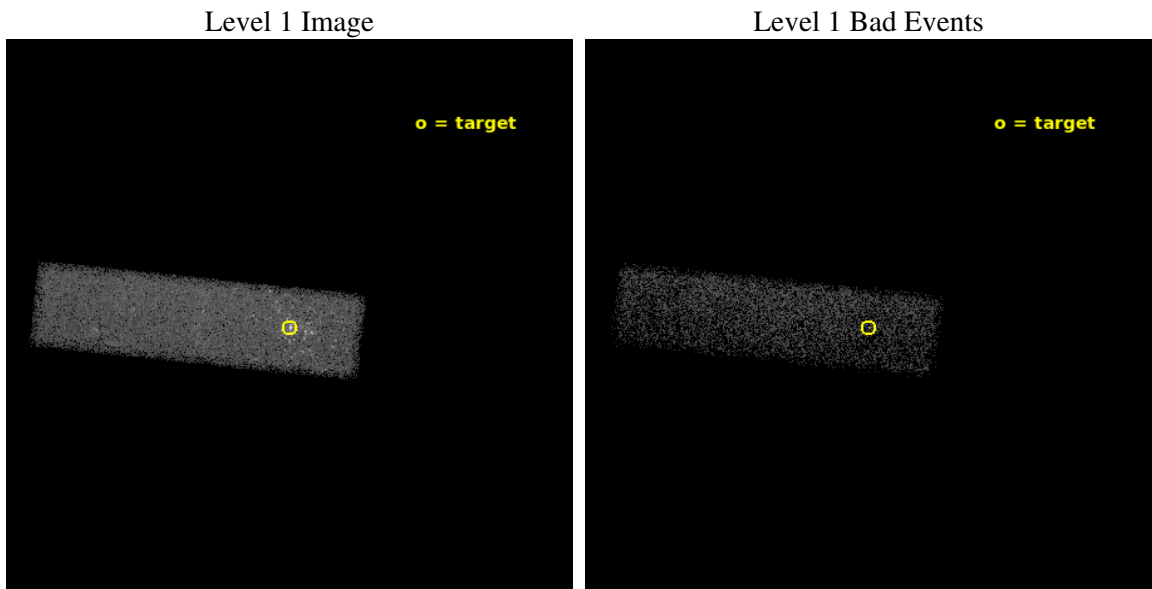
seq_num	201175	Sequence number
obs_id	20153	Observation id
title	A unique opportunity to observe the extreme massive binary HD 93129A near periastron passage	Proposal title
observer	Santiago del Palacio	Principal investigator
object	HD 93129A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	160.989583	Observer's specified target RA [deg]
dec_targ	-59.547583	Observer's specified target Dec [deg]
ra_nom	160.99022479857	Nominal RA [deg]
dec_nom	-59.54597405802	Nominal Dec [deg]
roll_nom	186.14751051632	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25060.505542159	Sum of GTIs [s]
liveltime	23837.634873166	Livetime [s]
ontime7	25060.505542159	Sum of GTIs [s]
l2events	44090	Number of level 2 events



2 OBI

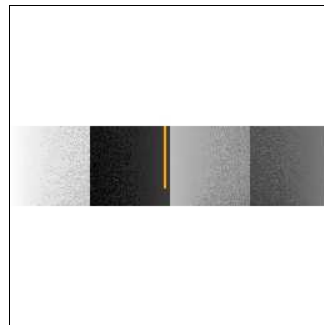
2.1 OBI

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	25060.505542159	Sum of GTIs [s]
caldbver	4.9.3	 	ontime7	25060.505542159	Sum of GTIs [s]
date	2020-10-27T07:32:35	Date and time of file creation	l1events	77481	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

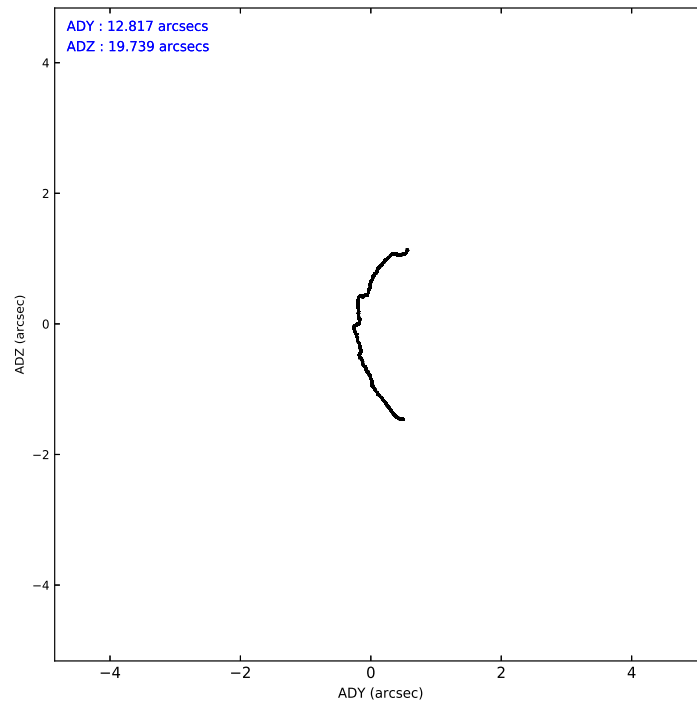
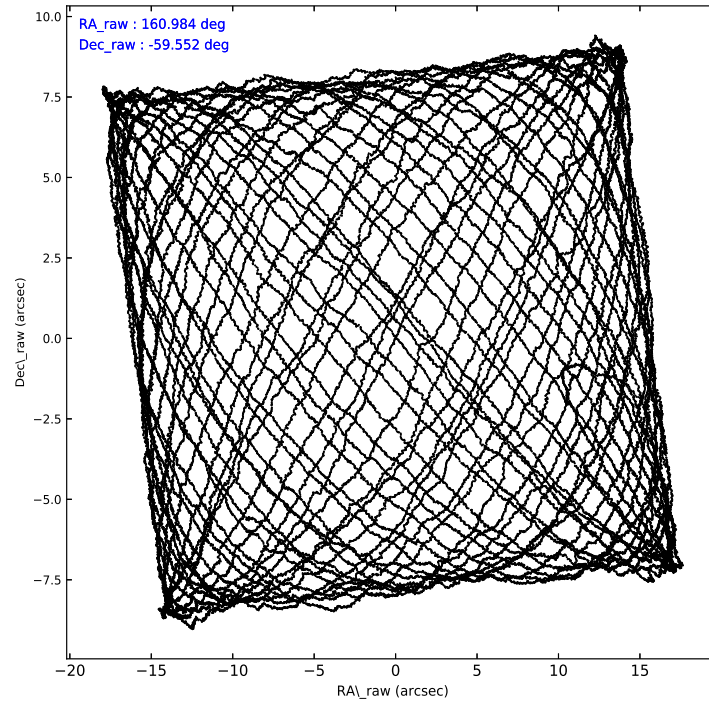
	ccd 7
level 1 events	77481
rejected events	32307
rejected %	41%

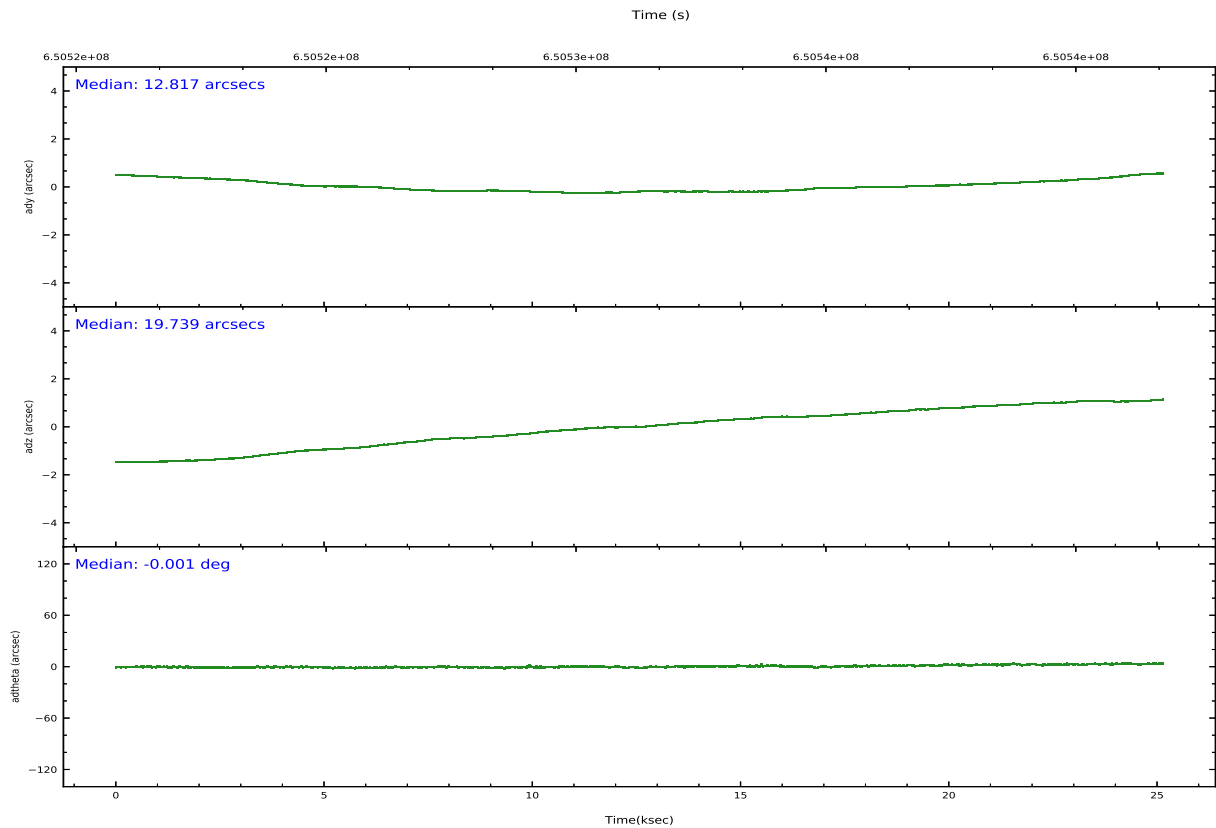
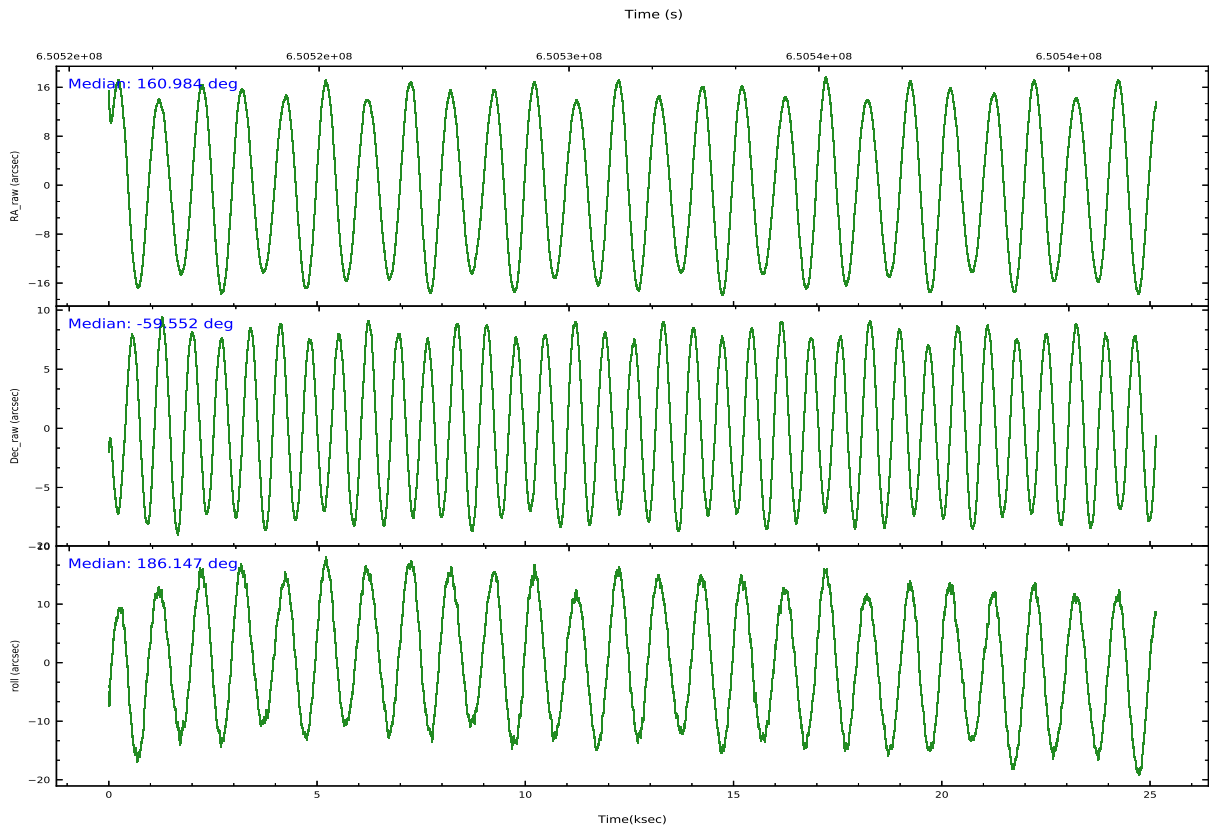
	ccd 7
grade 0 events	6969
	8%
grade 1 events	116
	0%
grade 2 events	10193
	13%
grade 3 events	5103
	6%
grade 4 events	5052
	6%
grade 5 events	6647
	8%
grade 6 events	17861
	23%
grade 7 events	25540
	32%

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	161.027440	160.99022479857	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-59.535504	-59.54597405802	Subarray start row	385	385
[deg] Pointing Roll	186.032631	186.14751051632	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)	650519096.184000	650517968.64574			
Observation start date	2018-08-13T03:43:47	2018-08-13T03:26:08			
[s] Observation end time (MET)	650544096.184000	650545167.02235			
Observation end date	2018-08-13T10:40:27	2018-08-13T10:59:27			
Read mode	TIMED	TIMED			

2.3 Aspect



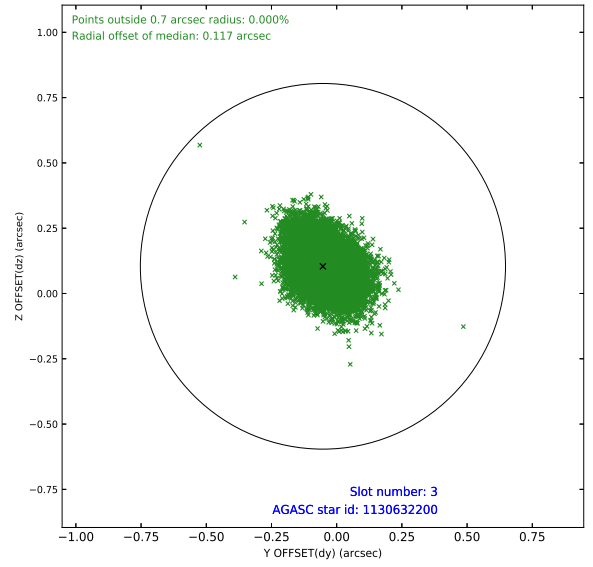
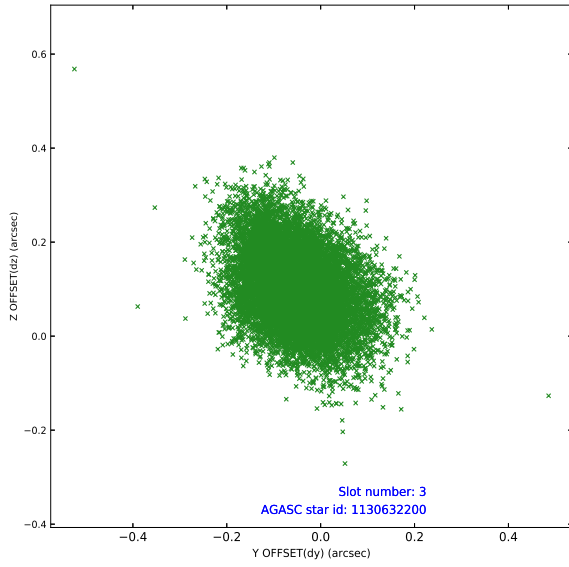


Slot Statistics

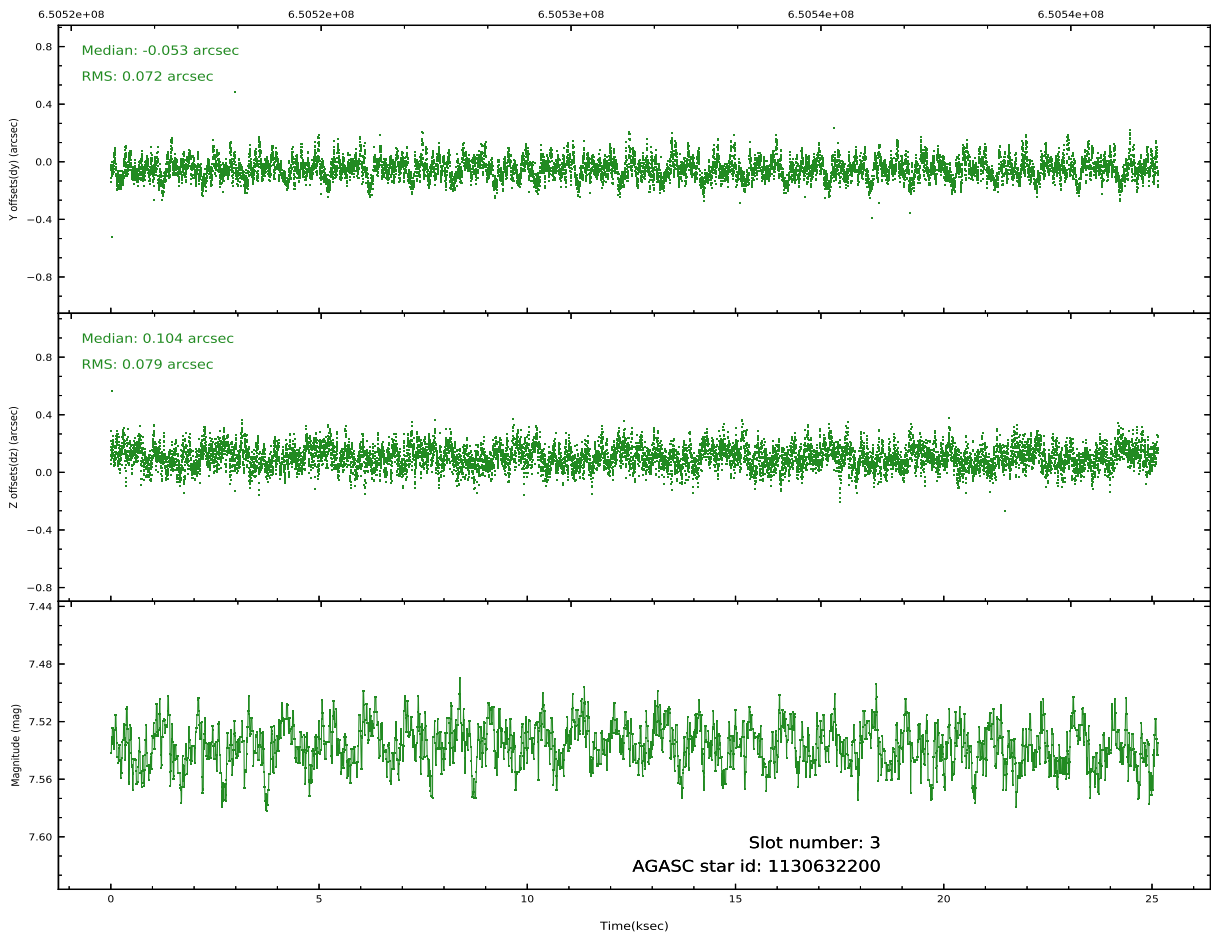
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-1	7.09	6133	1.000	0.120	-0.025	0.044	0.059	0.000000	0.000000	930.23	-1736
1	FID		ACIS-S-2	6.99	6133	1.000	-0.109	0.026	0.022	0.029	0.000000	0.000000	-765.84	-1741
2	FID		ACIS-S-4	7.11	6133	1.000	-0.037	0.006	0.023	0.036	0.000000	0.000000	2147.42	167
3	GUIDE	used	1130632200	7.54	12266	1.000	-0.053	0.104	0.113	0.187	161.433843	-59.407820	-788.27	-376
4	GUIDE	used	1128940016	7.02	12264	1.000	0.265	-0.167	0.086	0.150	159.689087	-59.262416	2348.76	-1211
5	GUIDE	used	1130644984	8.72	12257	1.000	-0.145	0.050	0.107	0.174	162.123834	-59.745452	-1896.32	976
6	GUIDE	used	1130646160	8.61	12259	1.000	-0.024	-0.008	0.109	0.179	162.161730	-59.561264	-2045.63	327
7	GUIDE	used	1174033144	8.51	12261	1.000	-0.049	0.023	0.100	0.165	161.168741	-60.059230	-54.54	1902

2.4 Star Slots

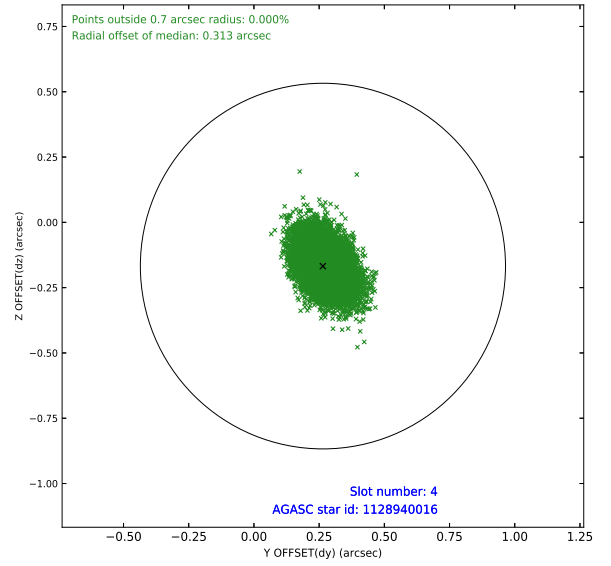
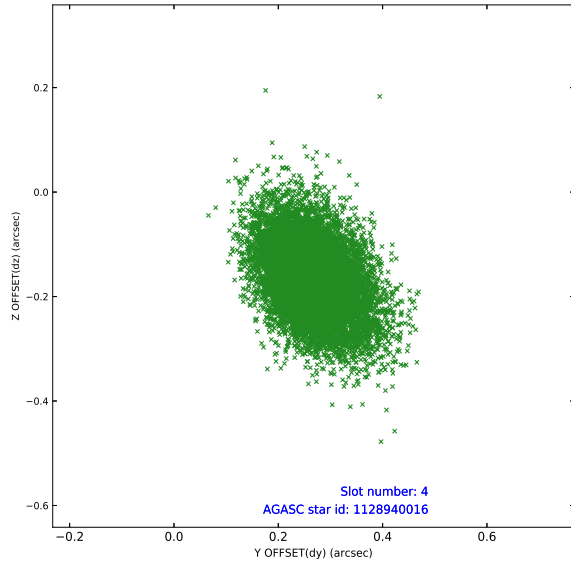
2.4.1 Slot 3



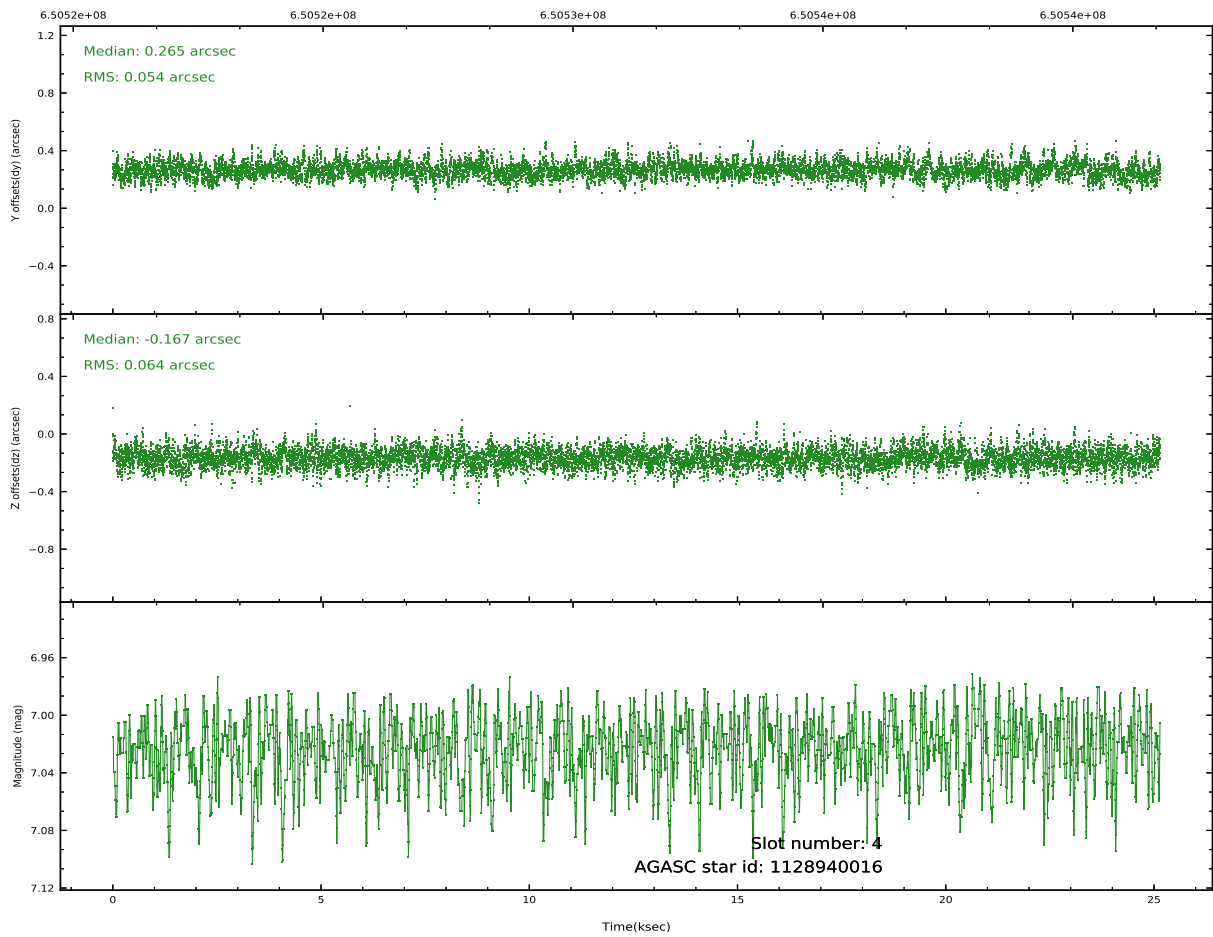
Time (s)



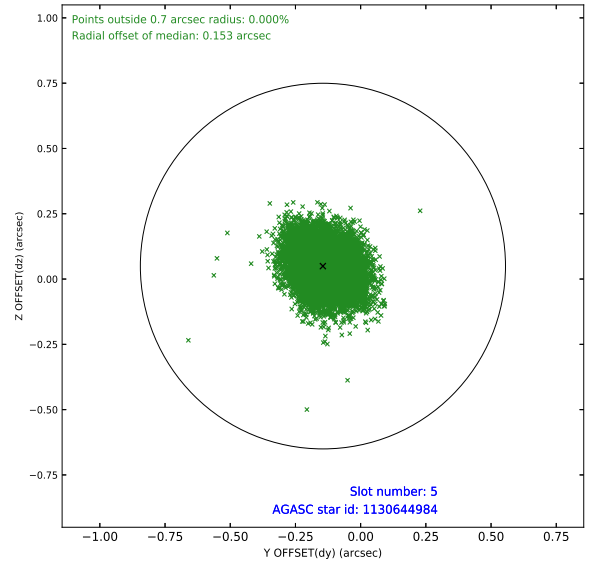
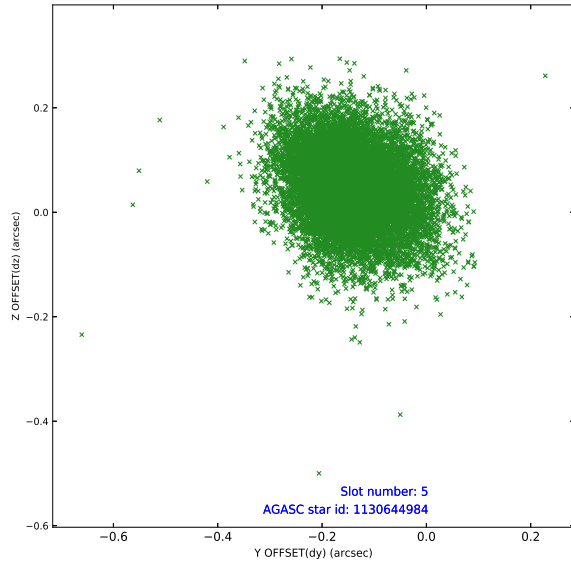
2.4.2 Slot 4



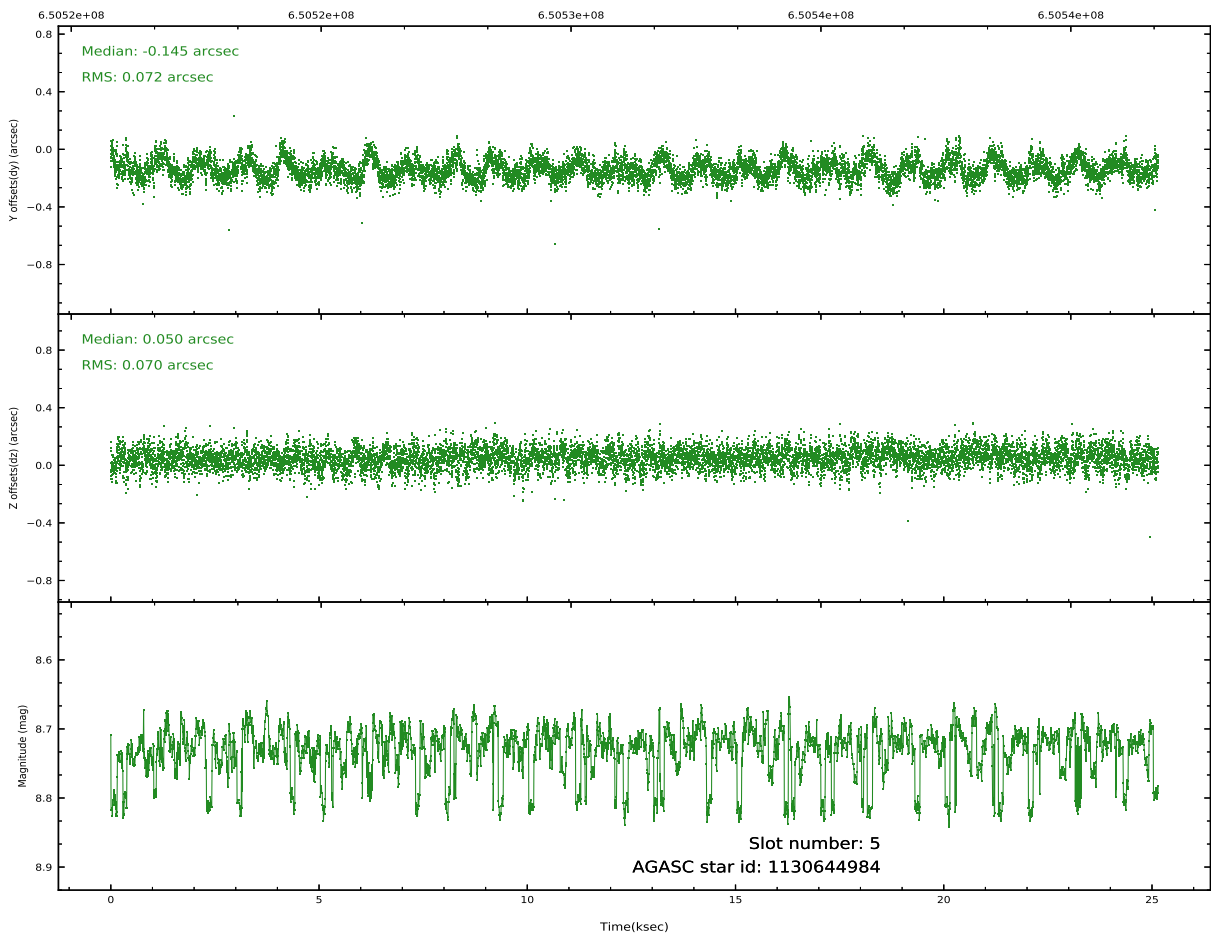
Time (s)



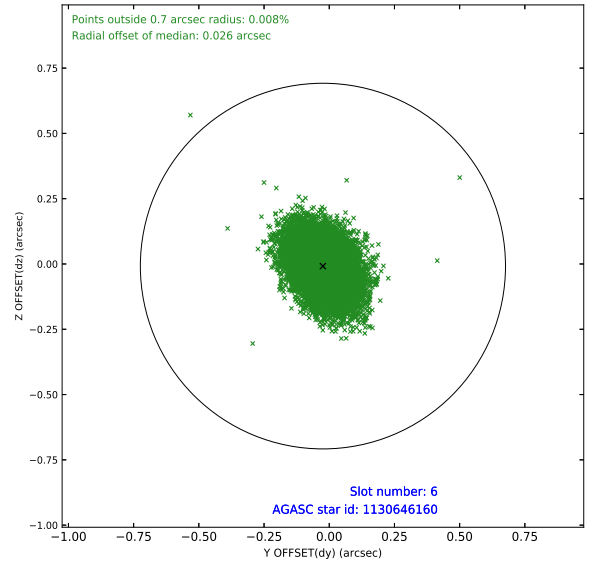
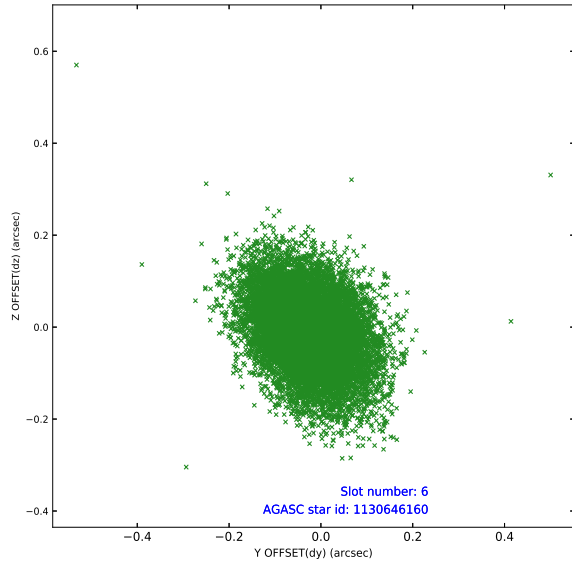
2.4.3 Slot 5



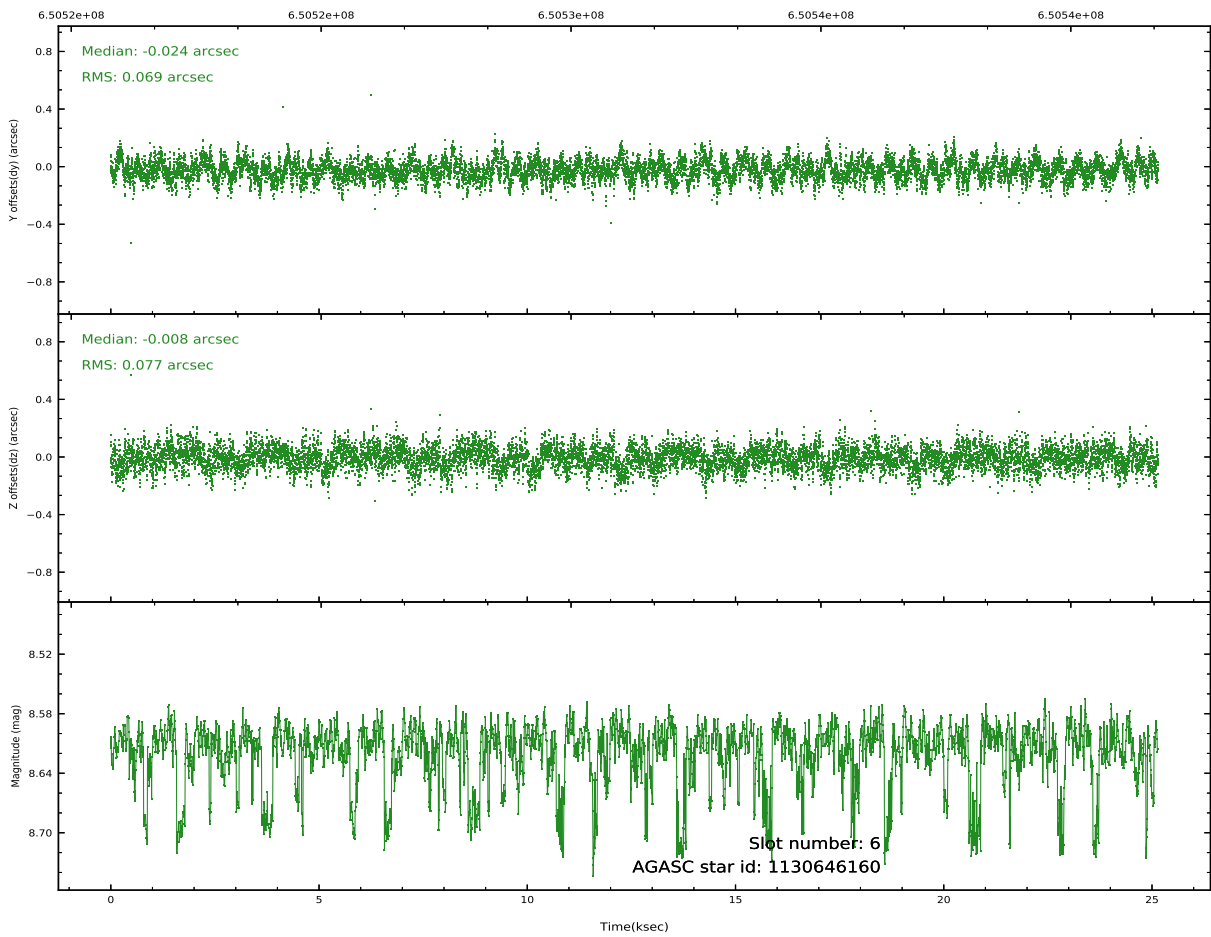
Time (s)



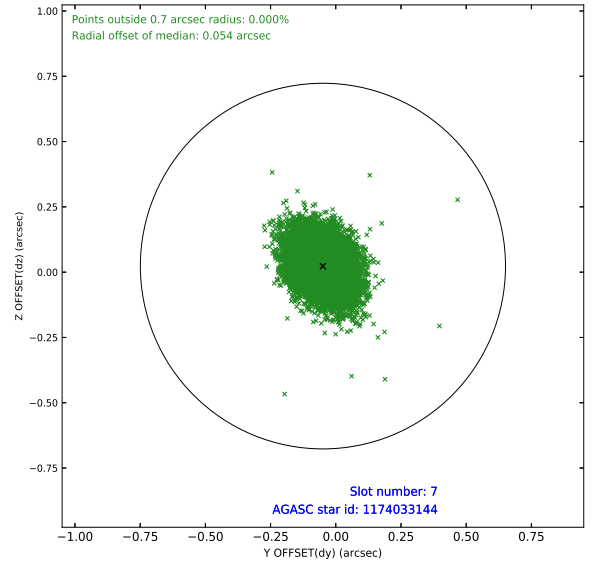
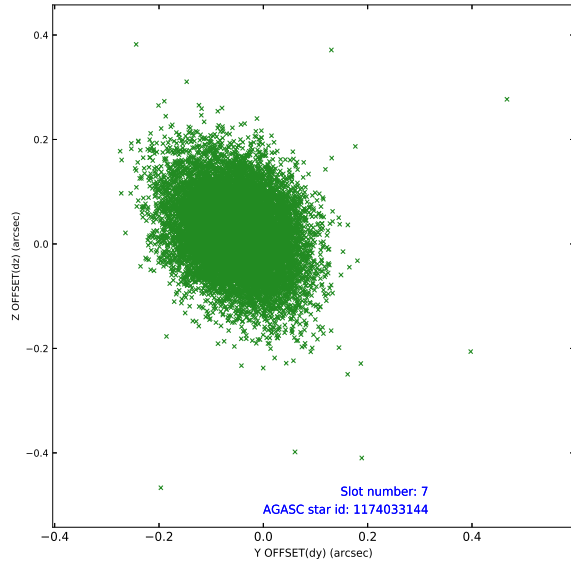
2.4.4 Slot 6



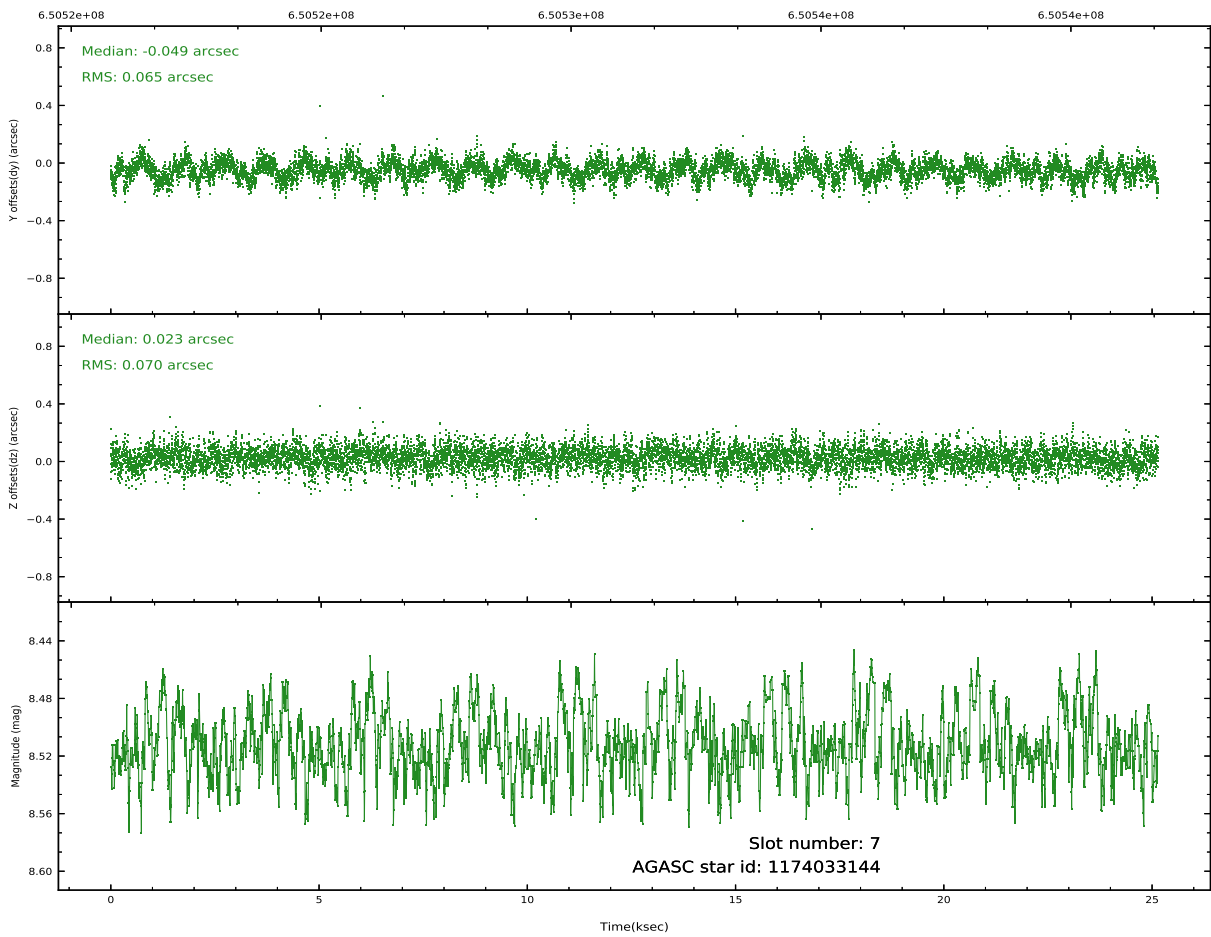
Time (s)



2.4.5 Slot 7

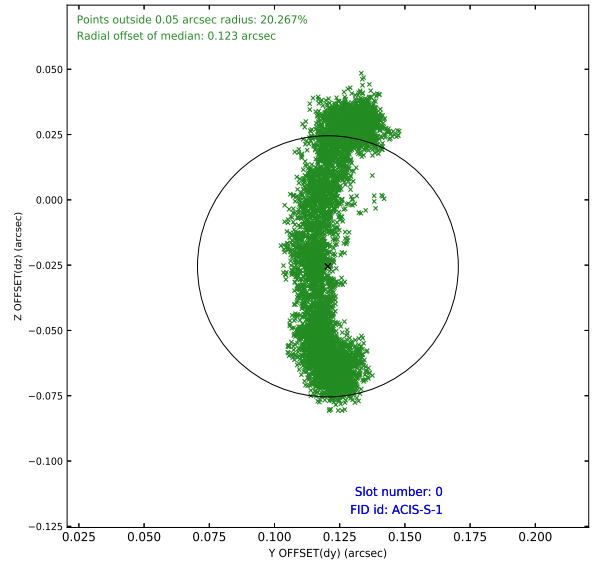
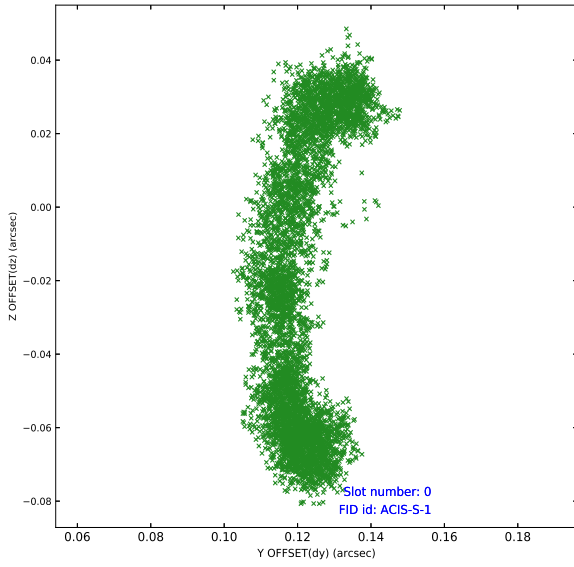


Time (s)

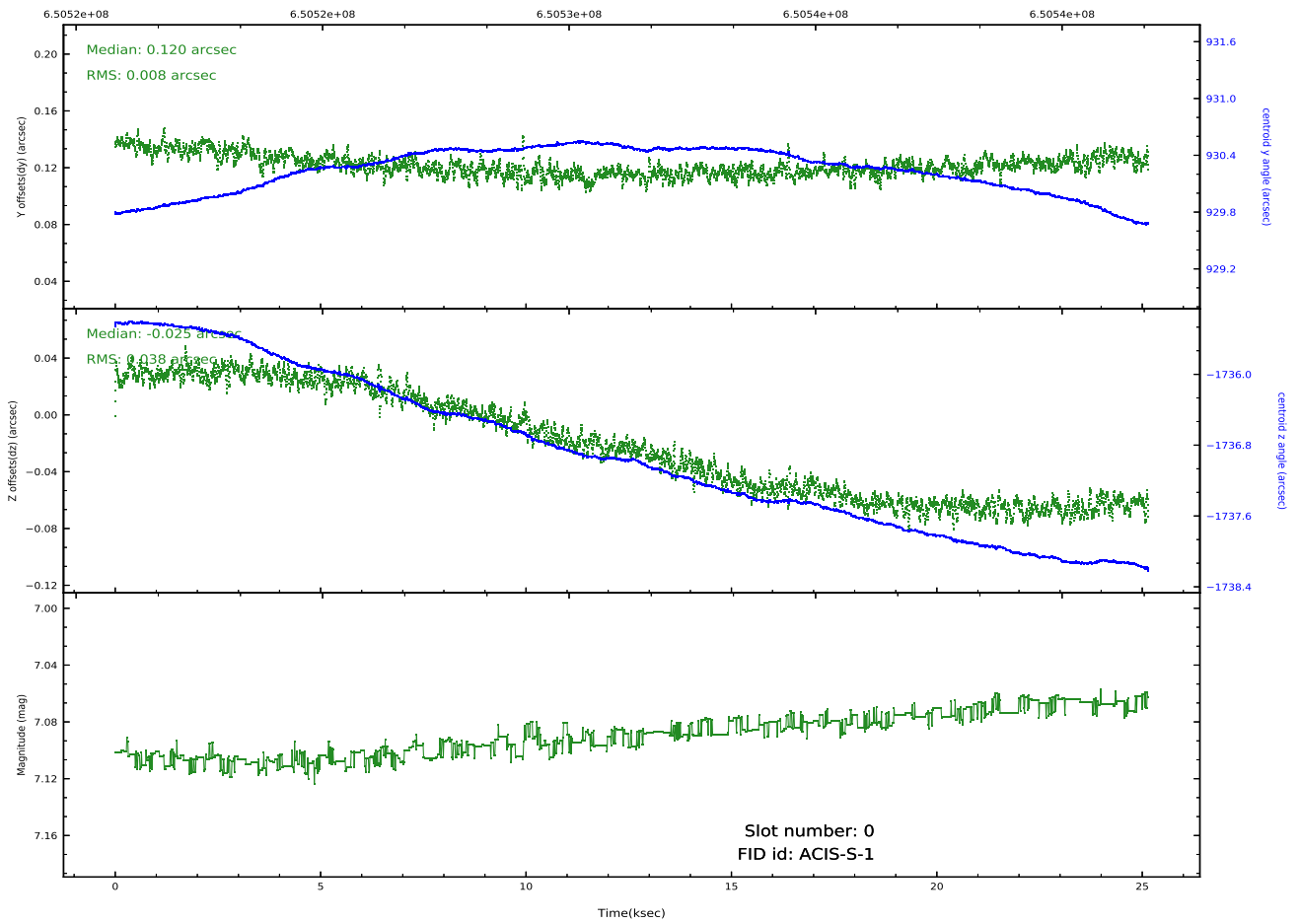


2.5 FID Slots

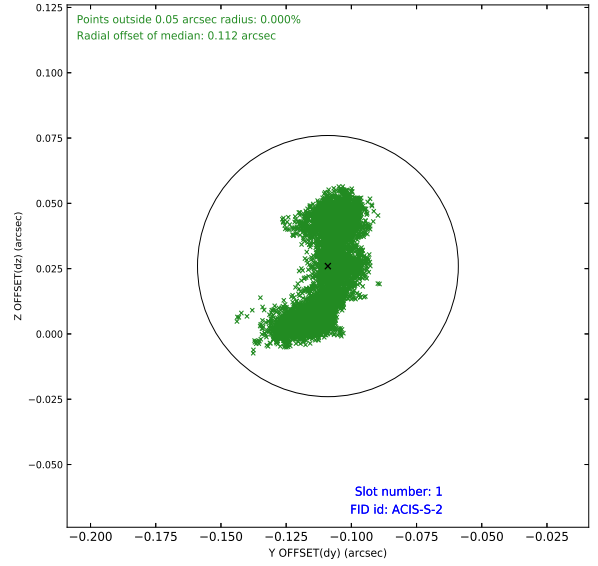
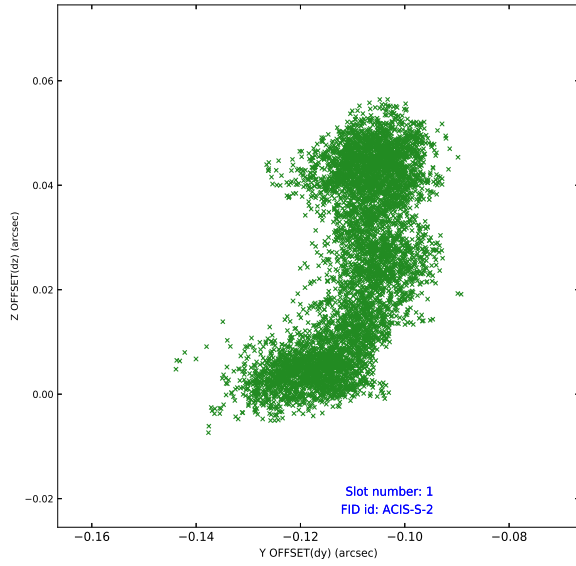
2.5.1 Slot 0



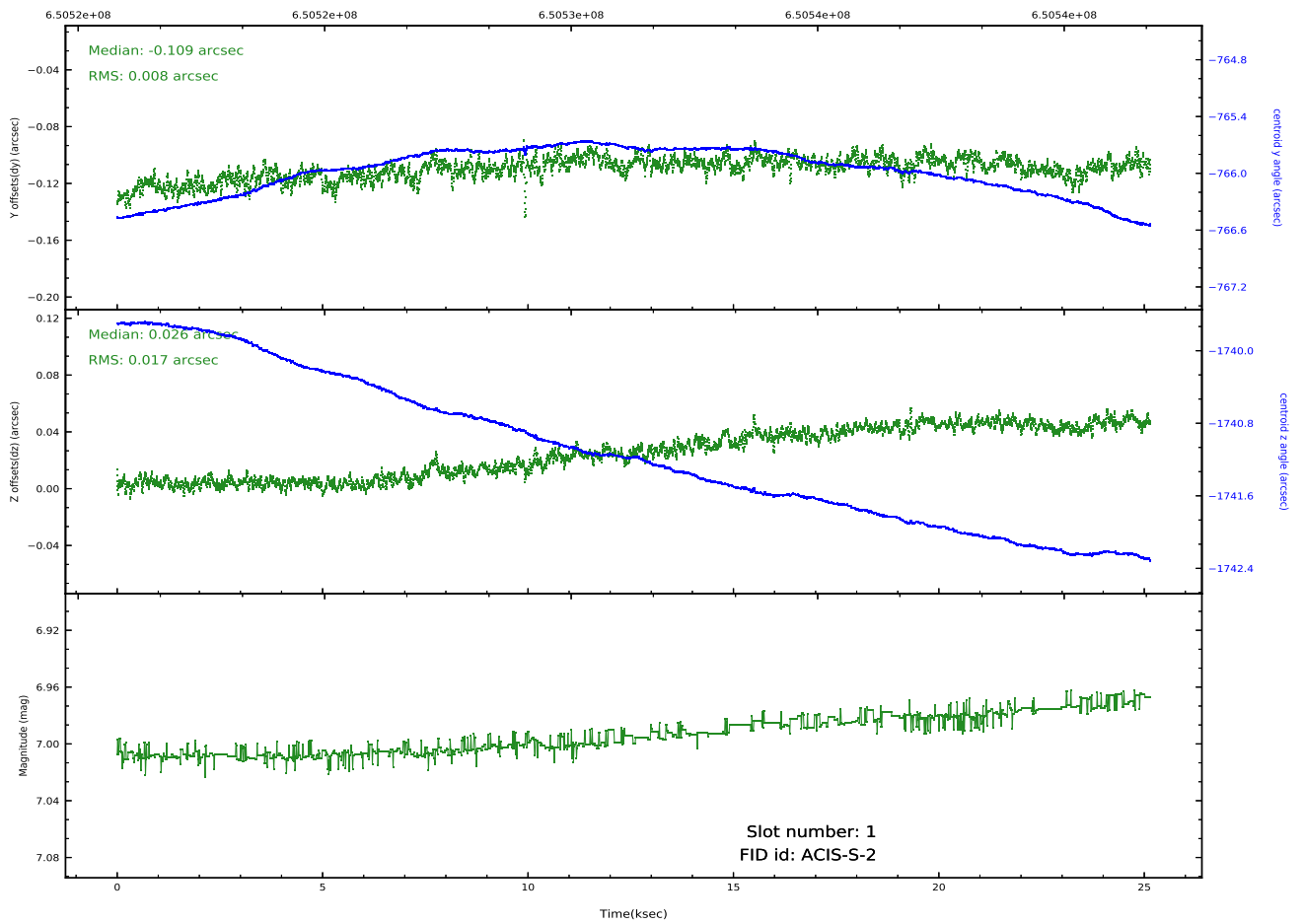
Time (s)



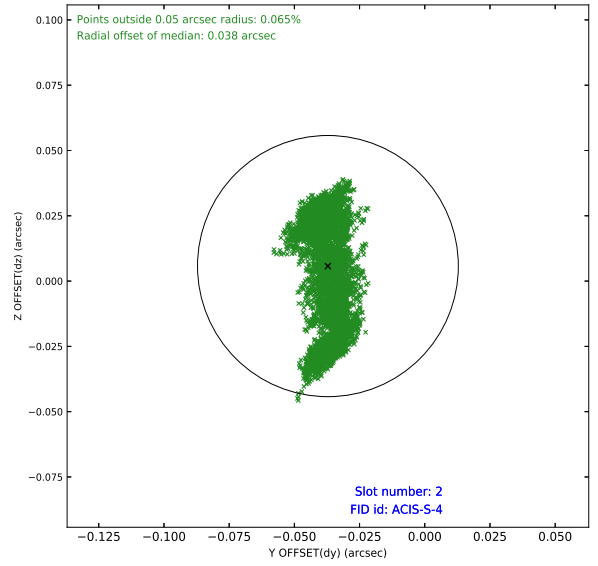
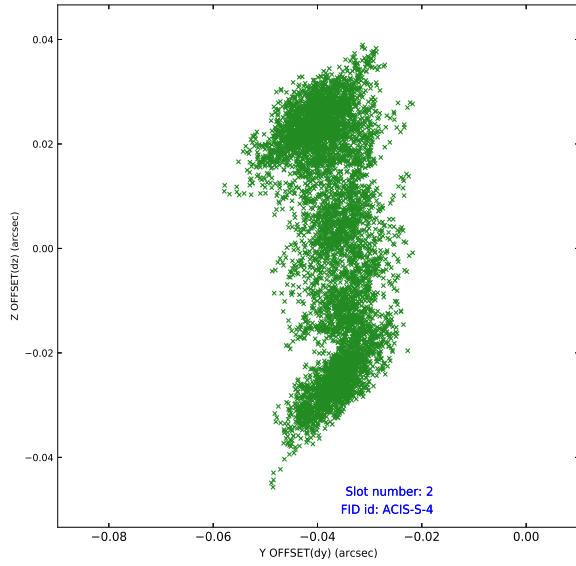
2.5.2 Slot 1



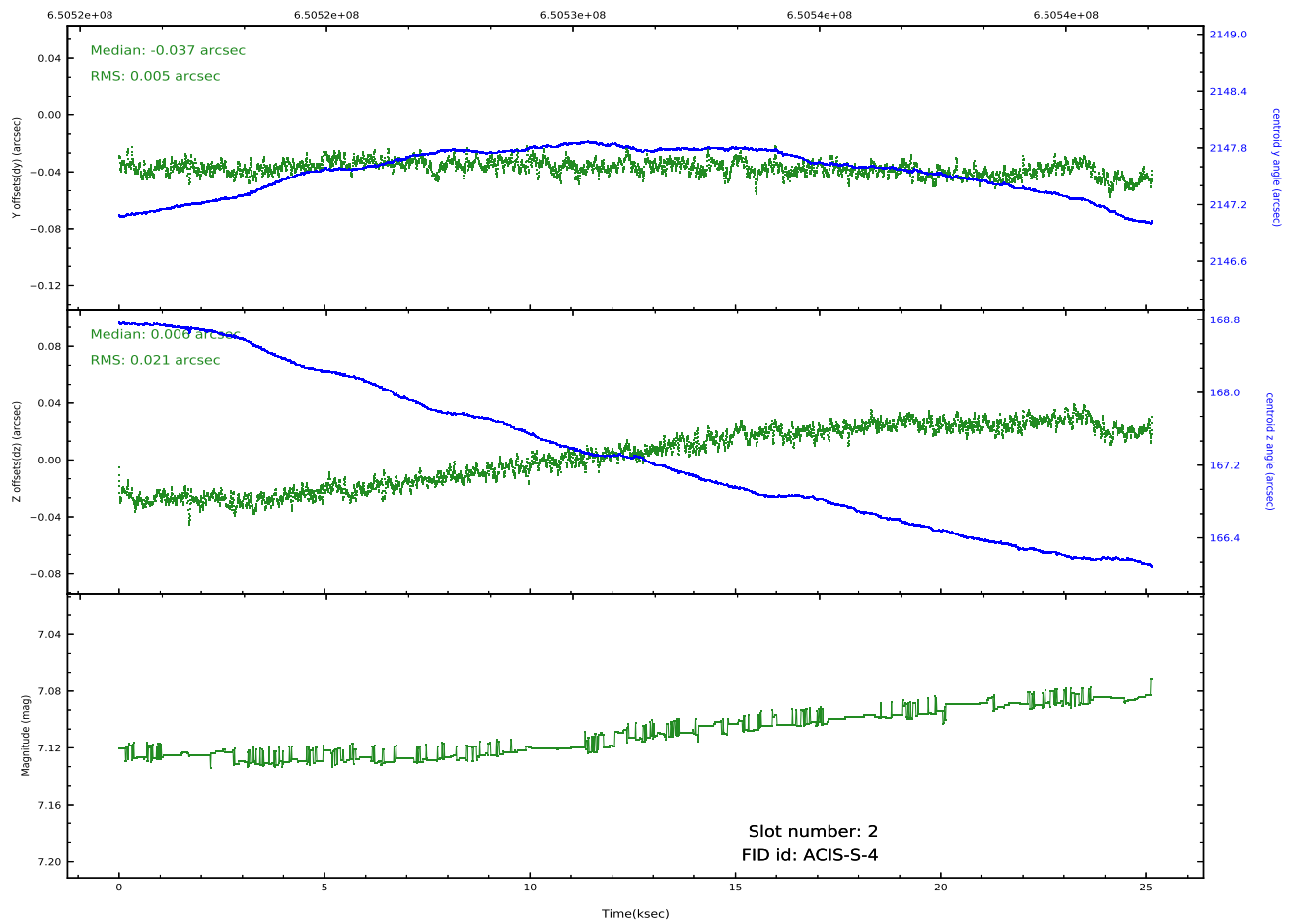
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.060505539656

A.2 Comments

Joint Proposal: NuSTAR