

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5738 - L2 Version 4
Chandra X-Ray Center

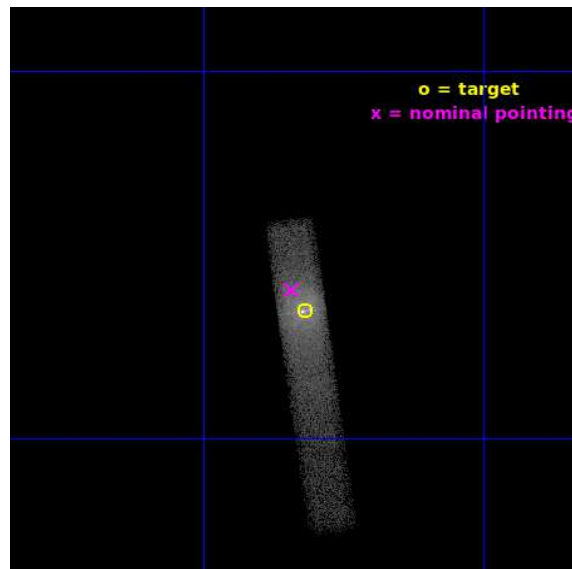
L2 Processing Date : Oct 6 2020

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1 Front

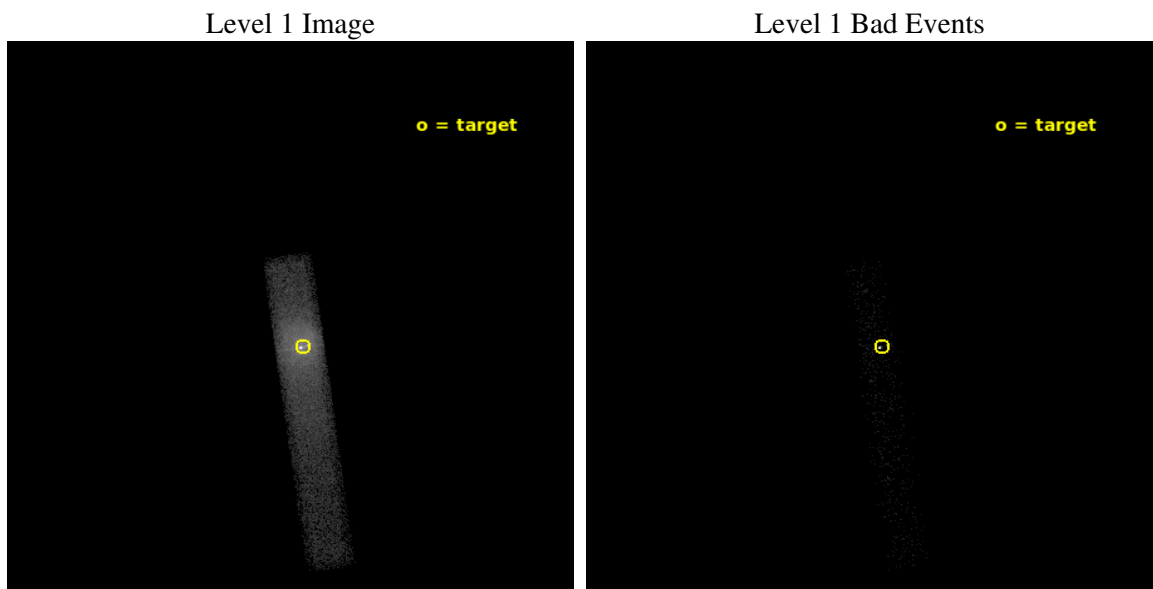
seq_num	701160	Sequence number
obs_id	5738	Observation id
title	The X-ray Flares of Knot 'HST-1' in the M87 Jet (monitoring)	Pro
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.7103130592	Nominal RA [deg]
dec_nom	12.401054736352	Nominal Dec [deg]
roll_nom	82.153980404681	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5144.8000766337	Sum of GTIs [s]
livetime	4666.0621046923	Livetime [s]
ontime7	5144.8000766337	Sum of GTIs [s]
l2events	60288	Number of level 2 events



2 OBI

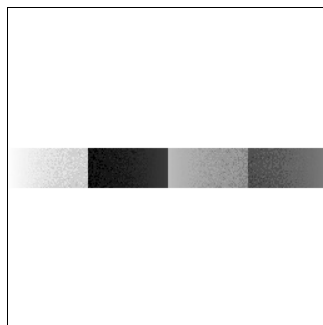
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5144.8000766337	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	5144.8000766337	Sum of GTIs [s]
date	2020-10-06T08:40:11	Date and time of file creation	l1events	75809	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

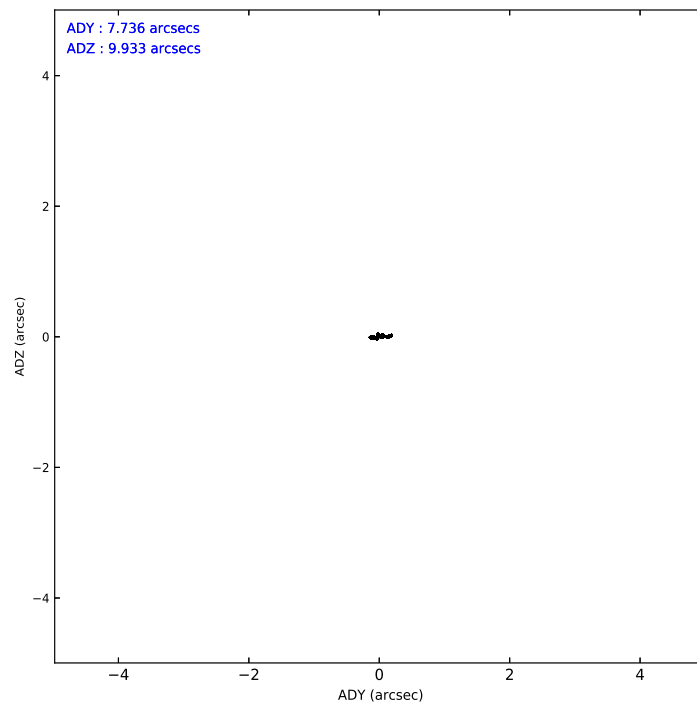
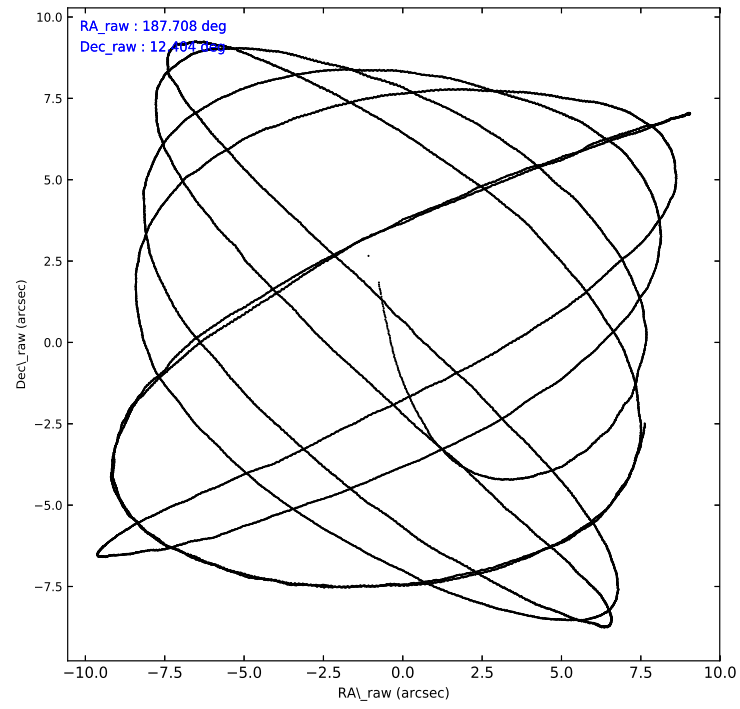
	ccd 7
level 1 events	75809
rejected events	14795
rejected %	19%

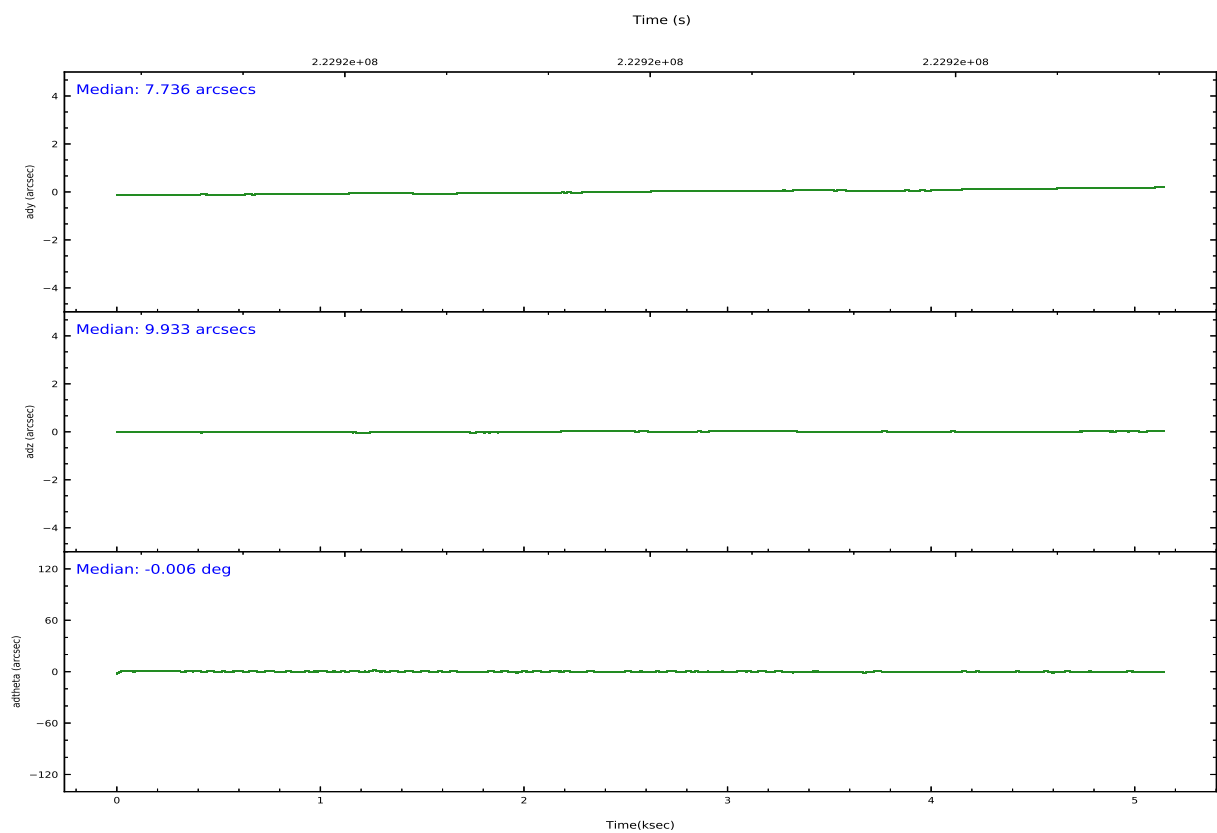
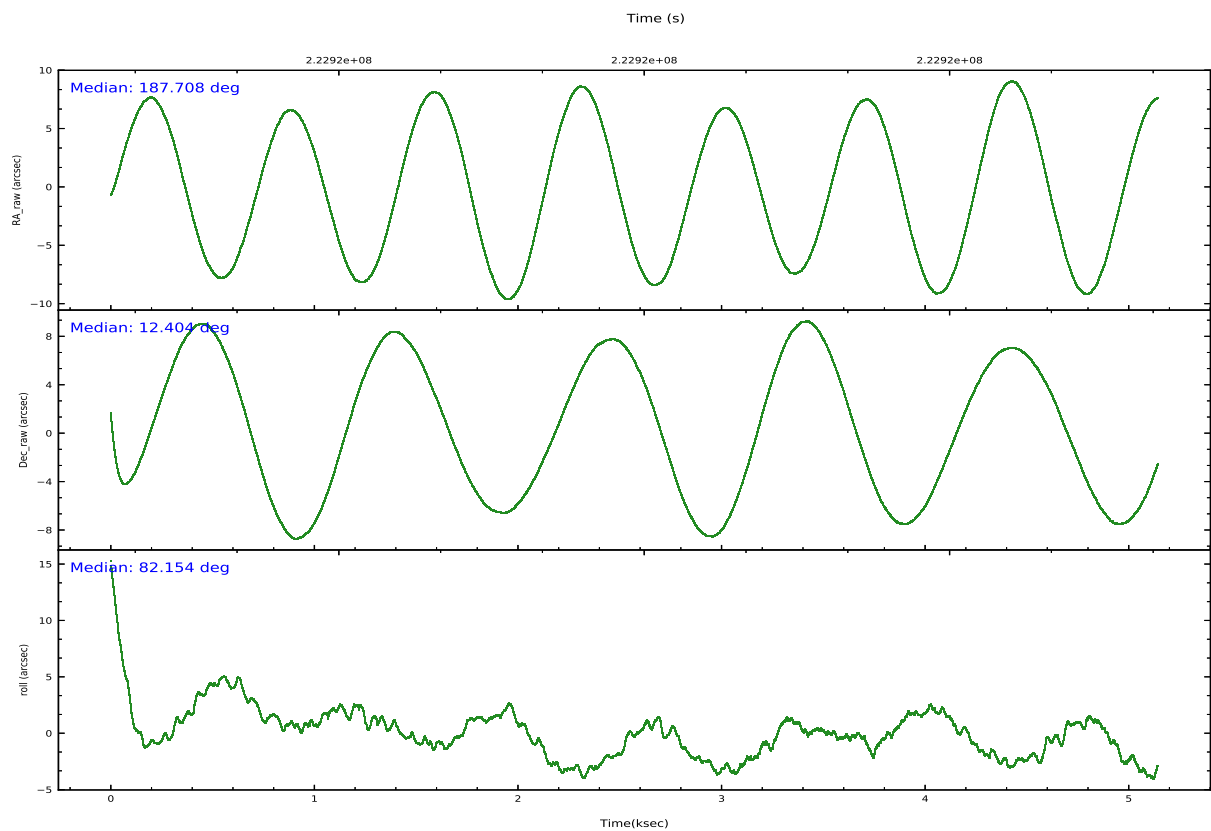
	ccd 7
grade 0 events	18901
	24%
grade 1 events	439
	0%
grade 2 events	15977
	21%
grade 3 events	7347
	9%
grade 4 events	7131
	9%
grade 5 events	3021
	3%
grade 6 events	14387
	18%
grade 7 events	8606
	11%

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	187.718484	187.7103130592	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.378596	12.401054736352	Subarray start row	449	449
[deg] Pointing Roll	81.996927	82.15398040468099	Subarray row count	128	128
[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	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	222919525.184000	222918178.67687			
Observation start date	2005-01-24T02:04:21	2005-01-24T01:42:58			
[s] Observation end time (MET)	222924525.184000	222925086.66469			
Observation end date	2005-01-24T03:27:41	2005-01-24T03:38:06			
Read mode	TIMED	TIMED			

2.3 Aspect



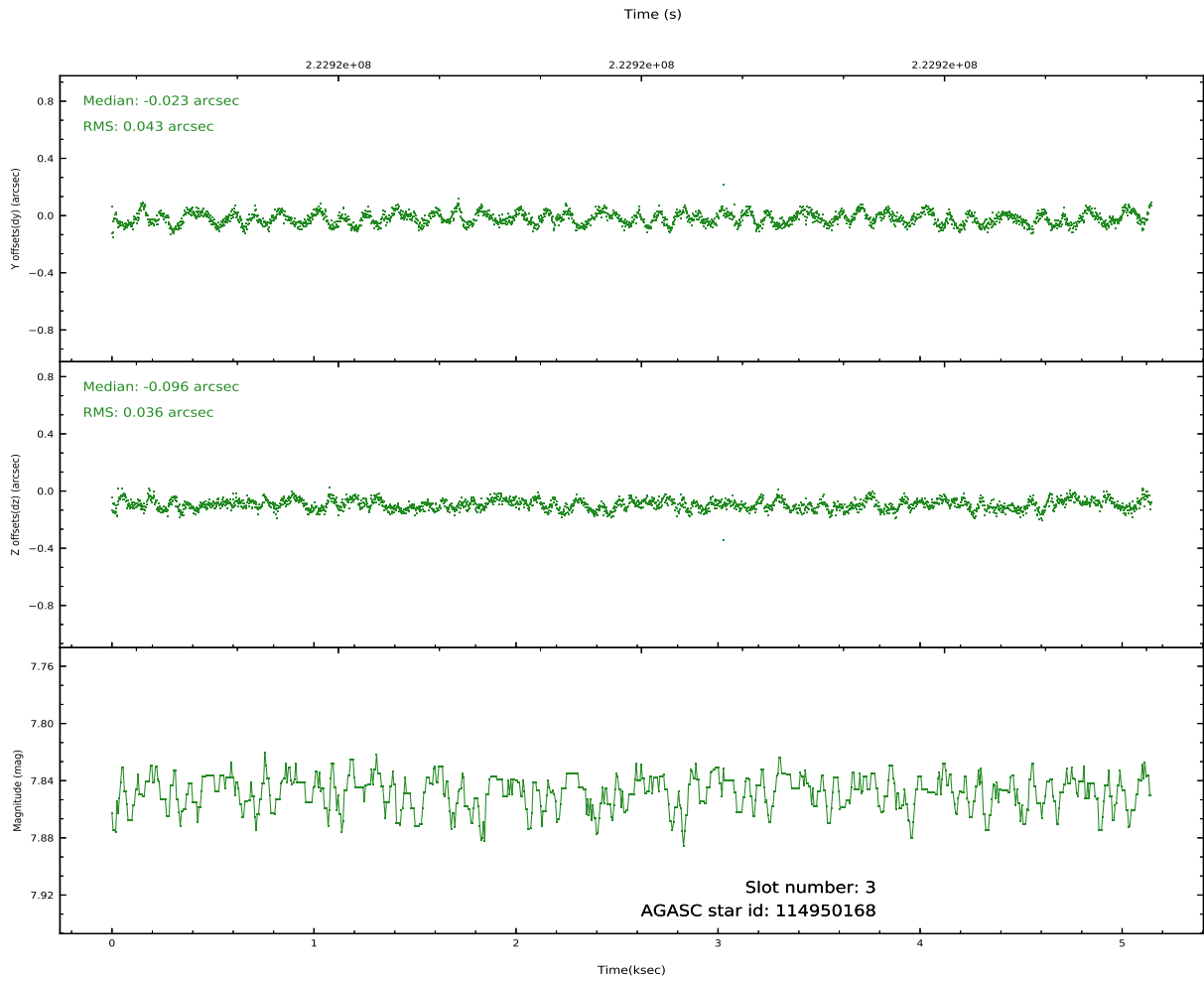
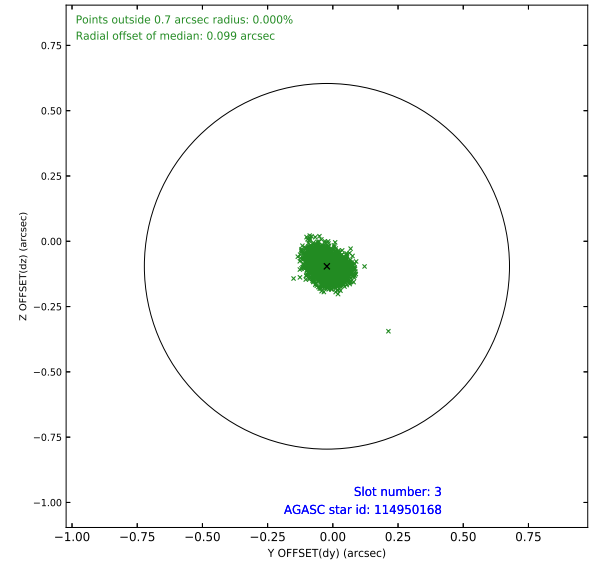
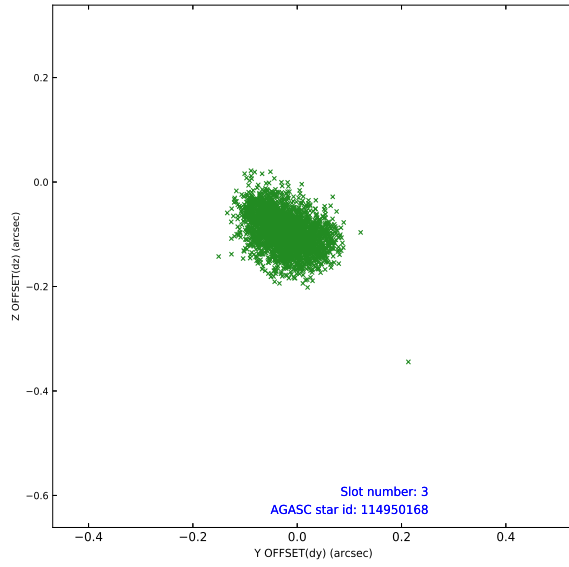


Slot Statistics

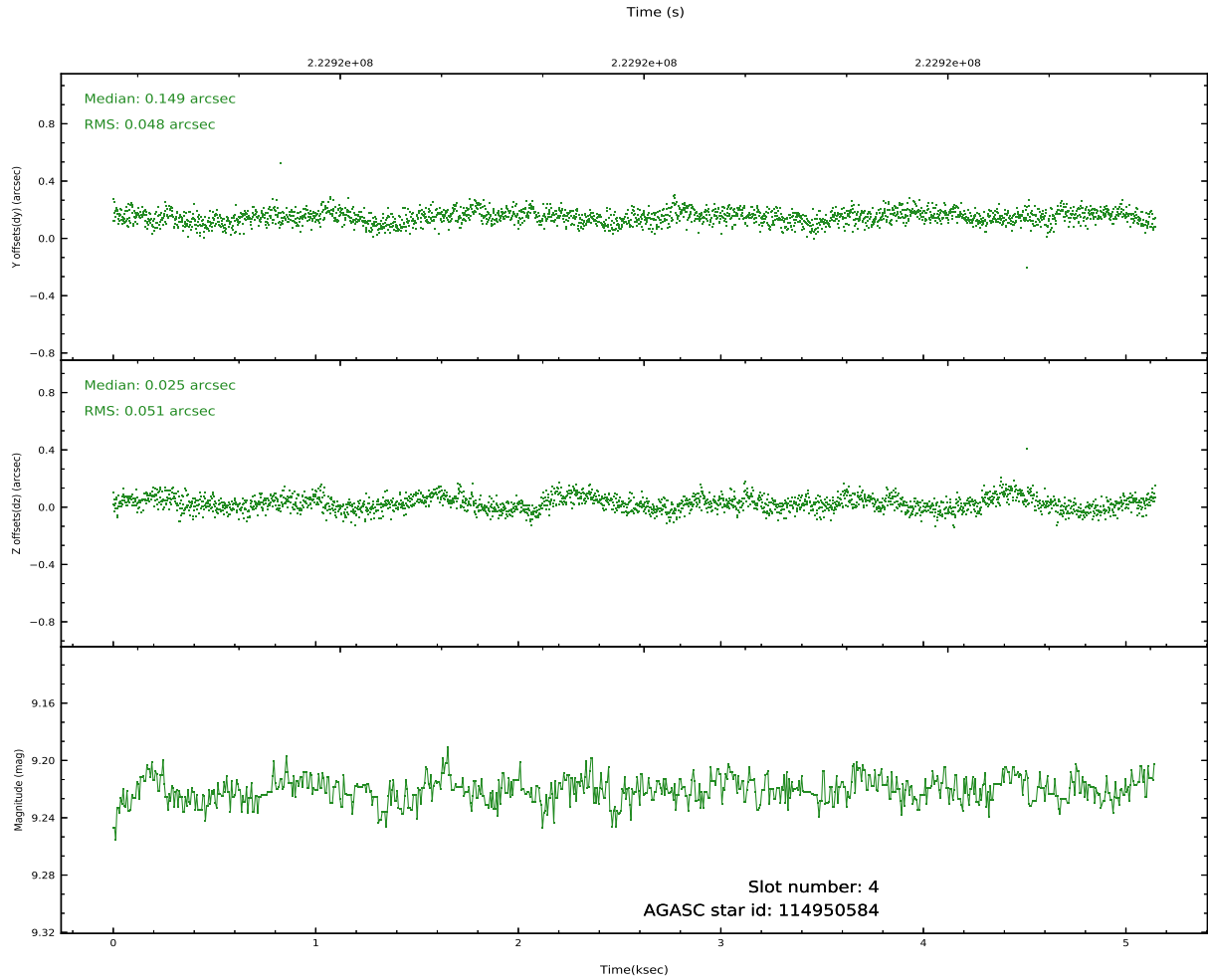
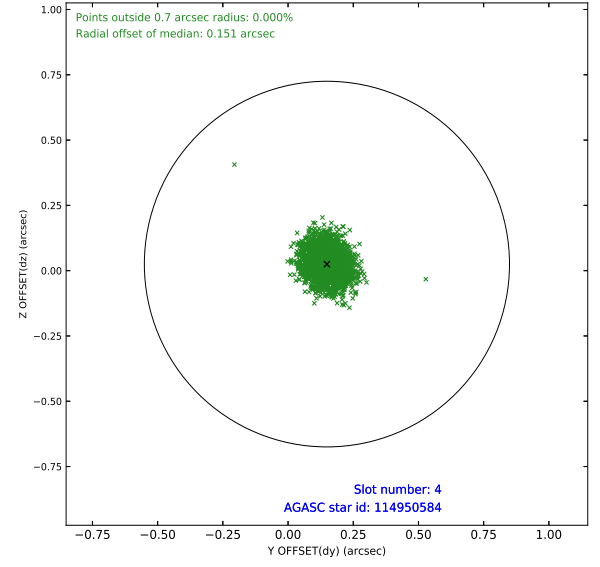
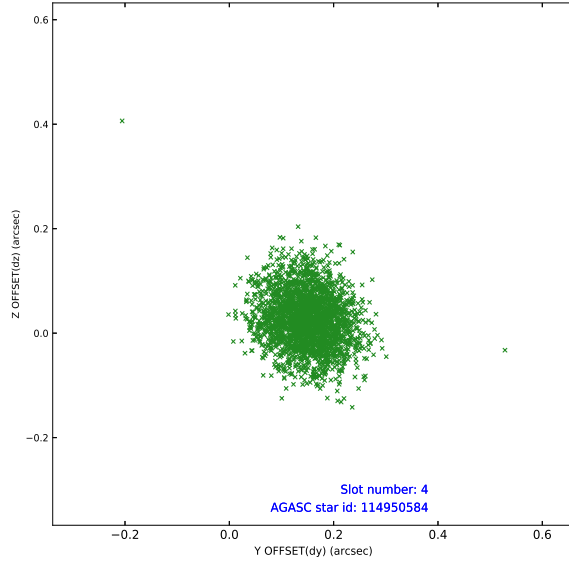
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1255	1.000	-0.069	-0.062	0.007	0.011	0.000000	0.000000	-760.51	-1731
1	FID		ACIS-S-4	7.21	1255	1.000	0.161	0.050	0.006	0.010	0.000000	0.000000	2152.38	176
2	FID		ACIS-S-5	7.23	1255	1.000	-0.122	0.021	0.006	0.011	0.000000	0.000000	-1811.97	171
3	GUIDE	used	114950168	7.85	2510	1.000	-0.023	-0.096	0.061	0.092	187.143398	12.117441	-1210.94	1874
4	GUIDE	used	114950584	9.22	2506	1.000	0.149	0.025	0.075	0.120	187.487323	11.827248	-2078.90	531
5	GUIDE	used	114952824	8.56	2510	1.000	-0.145	-0.037	0.069	0.111	187.703904	12.486727	377.46	105
6	GUIDE	used	114955056	8.35	2511	1.000	0.028	0.120	0.063	0.105	187.914001	12.127854	-797.41	-806
7	GUIDE	used	114955568	7.52	2510	1.000	-0.012	-0.012	0.063	0.103	187.061916	11.826551	-2287.90	2014

2.4 Star Slots

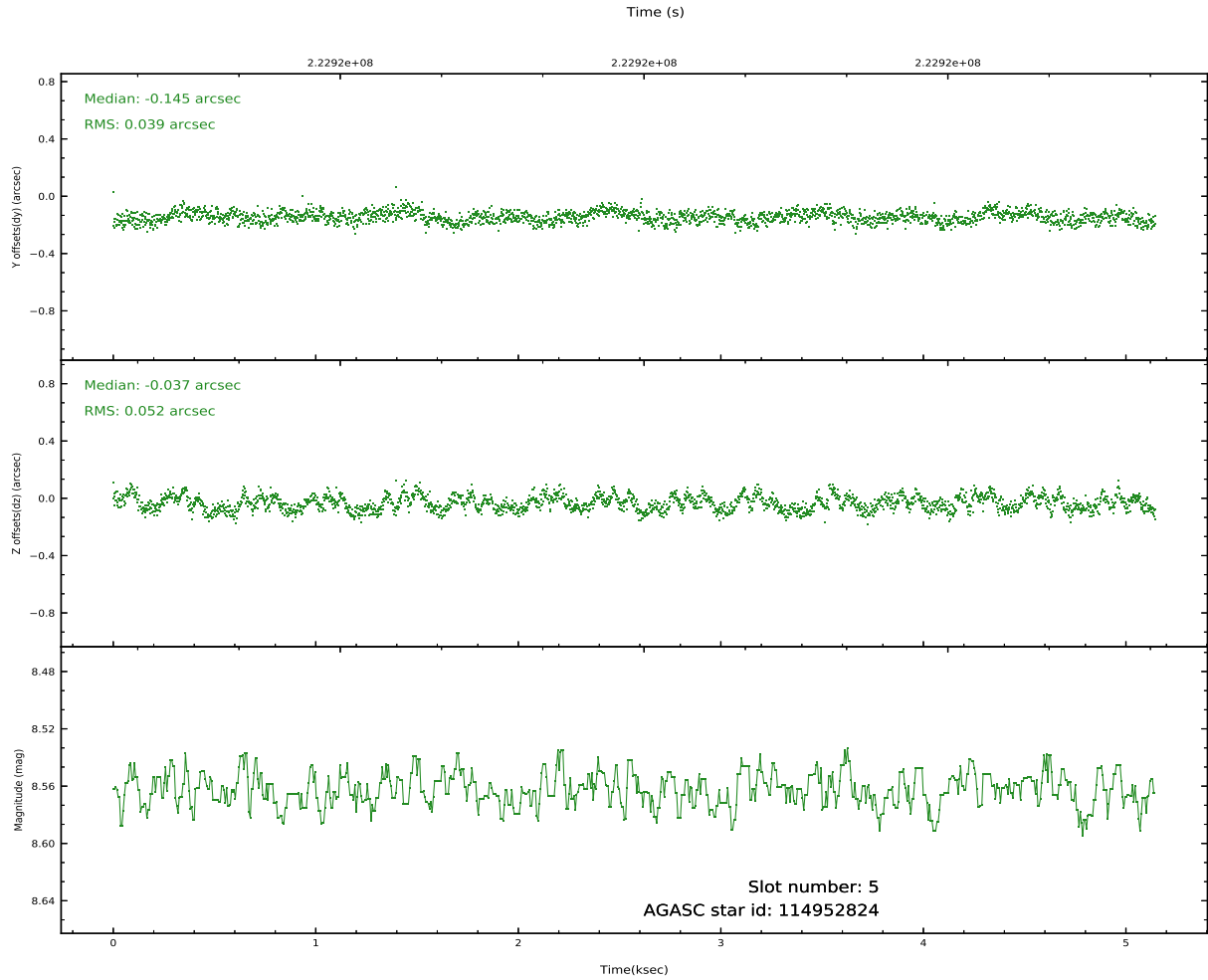
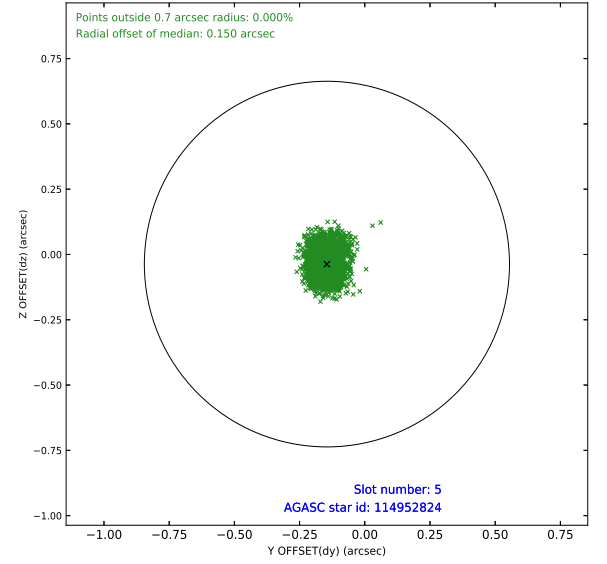
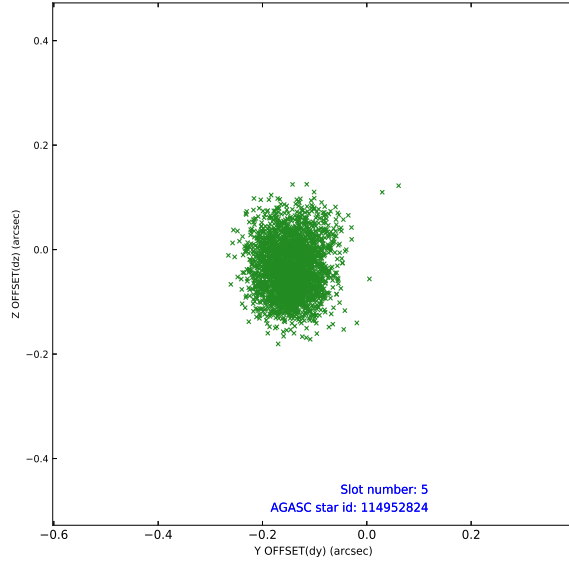
2.4.1 Slot 3



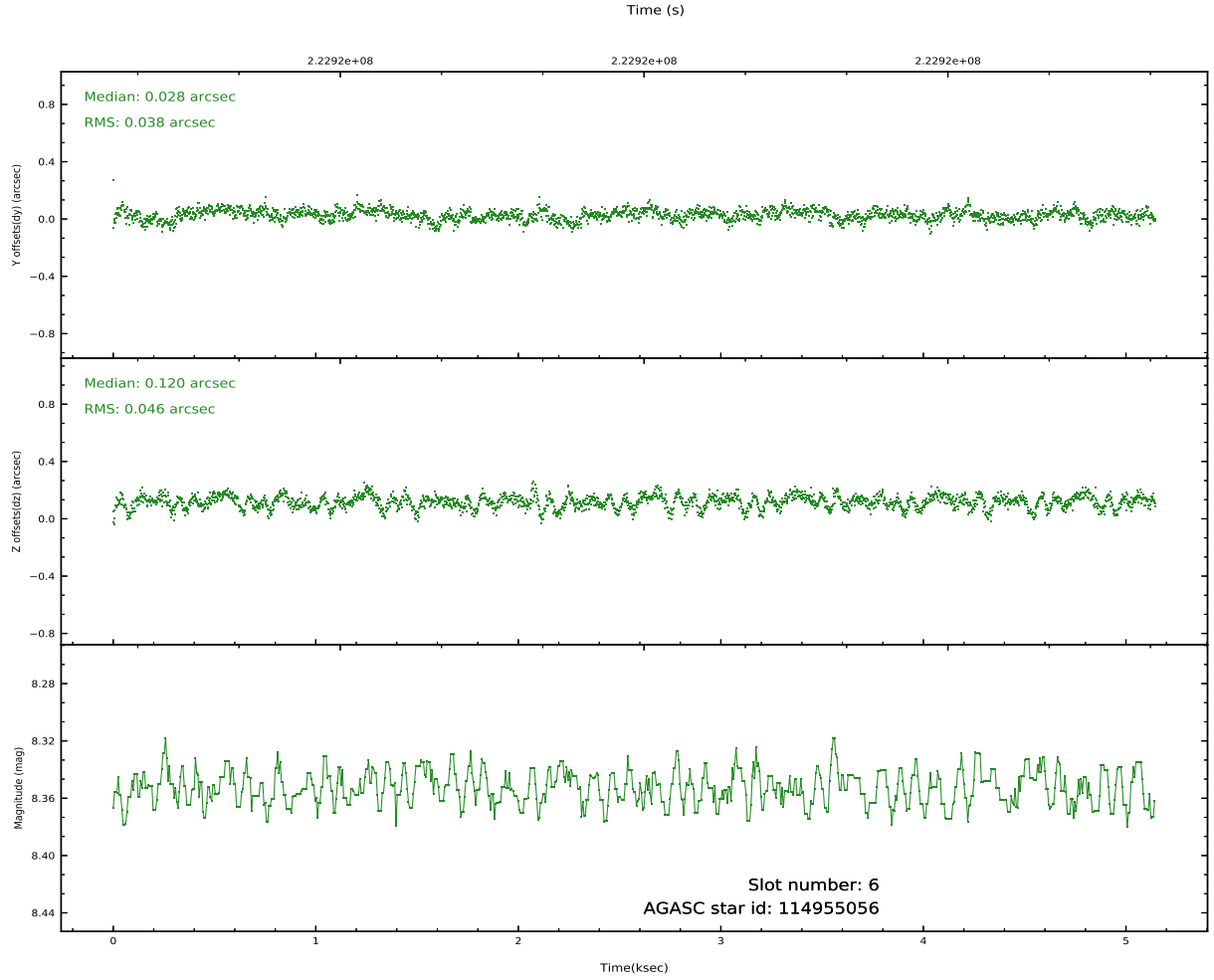
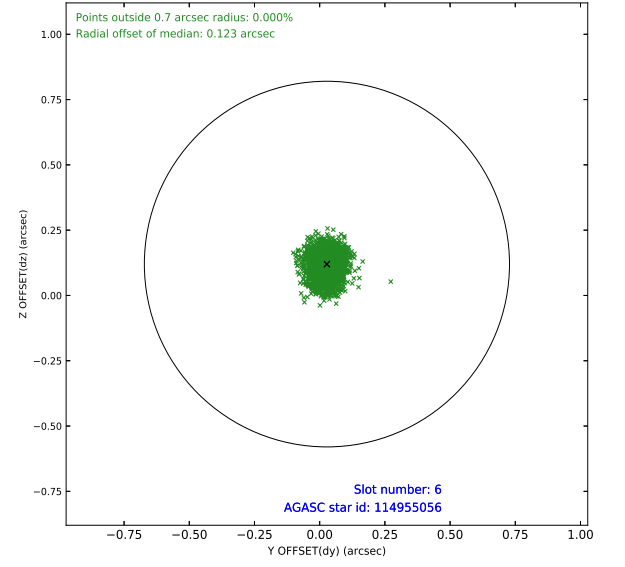
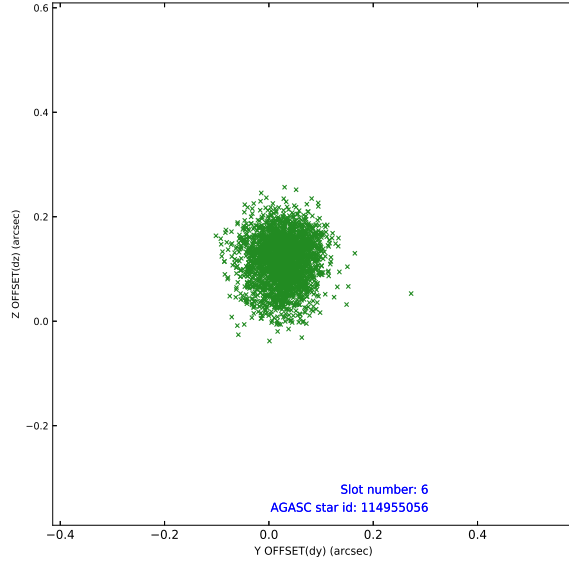
2.4.2 Slot 4



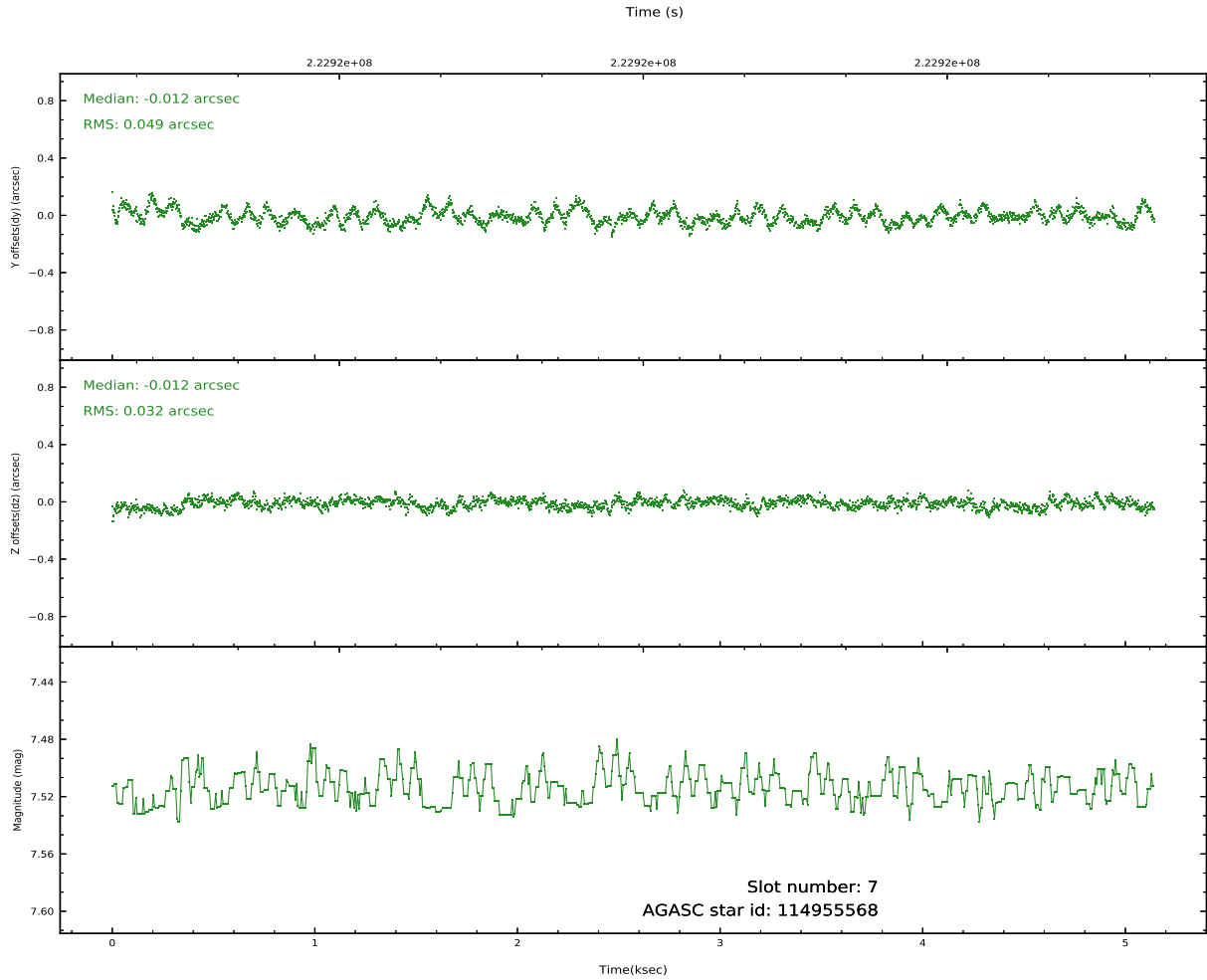
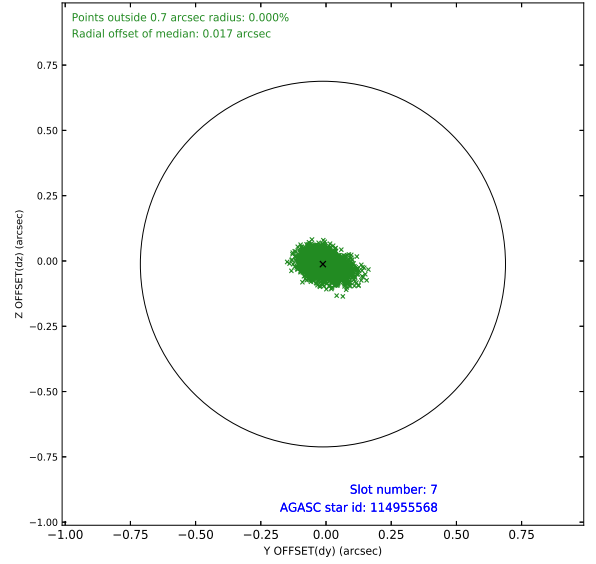
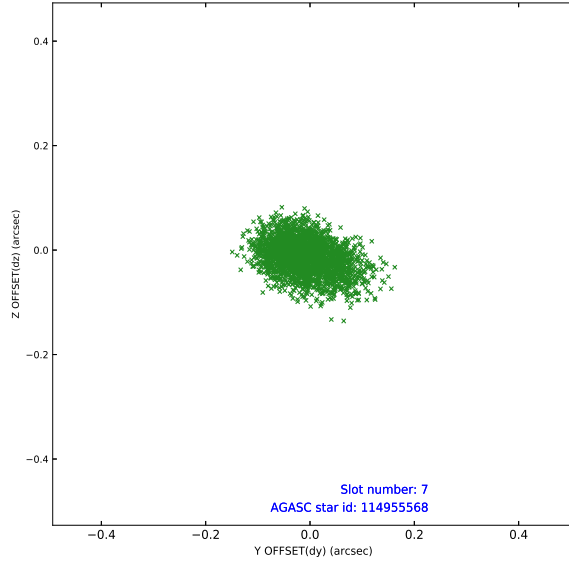
2.4.3 Slot 5



2.4.4 Slot 6

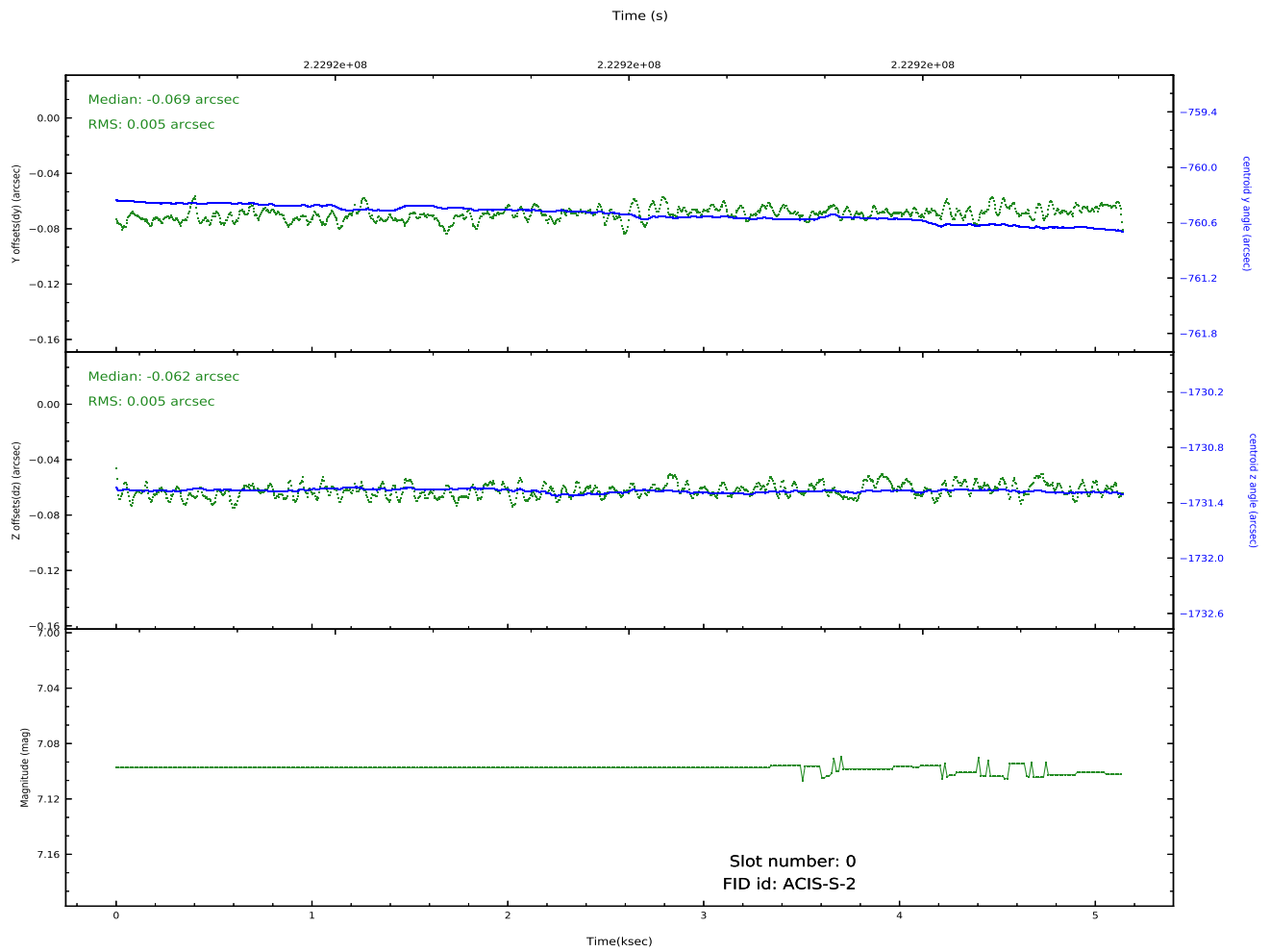
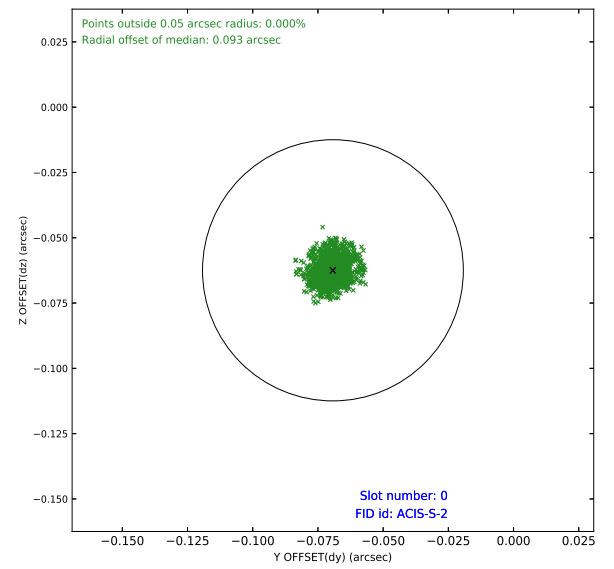
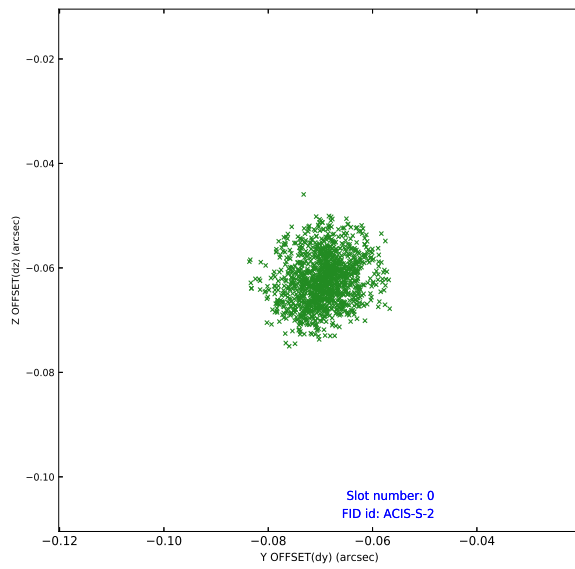


2.4.5 Slot 7

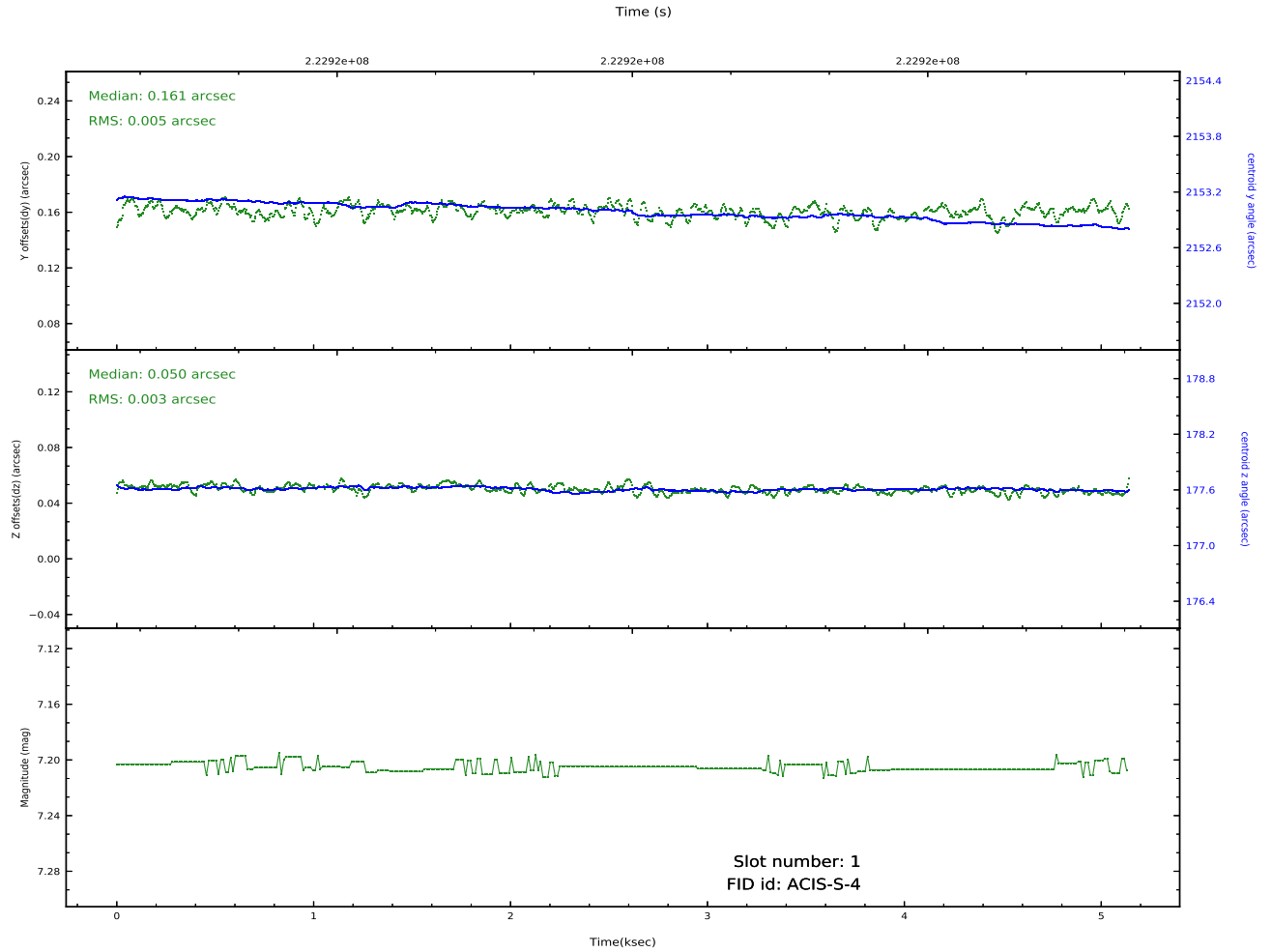
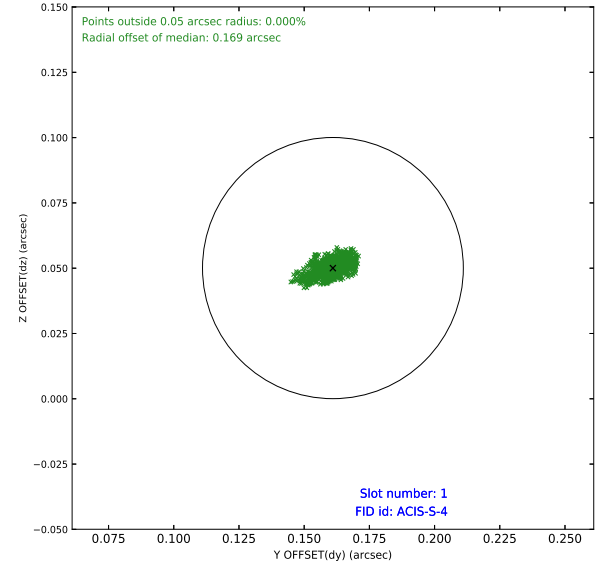
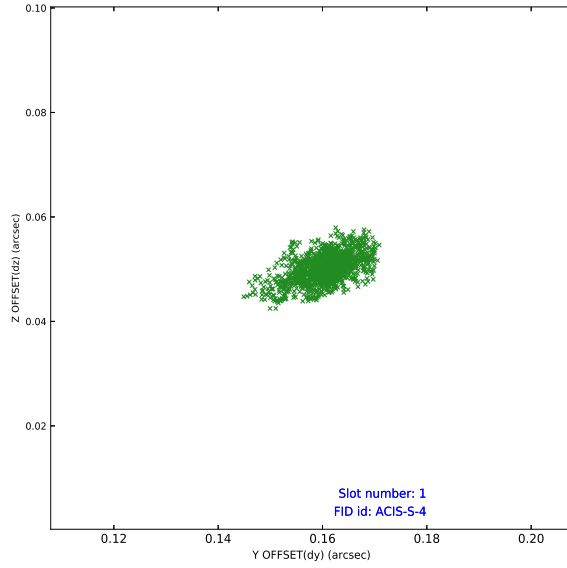


2.5 FID Slots

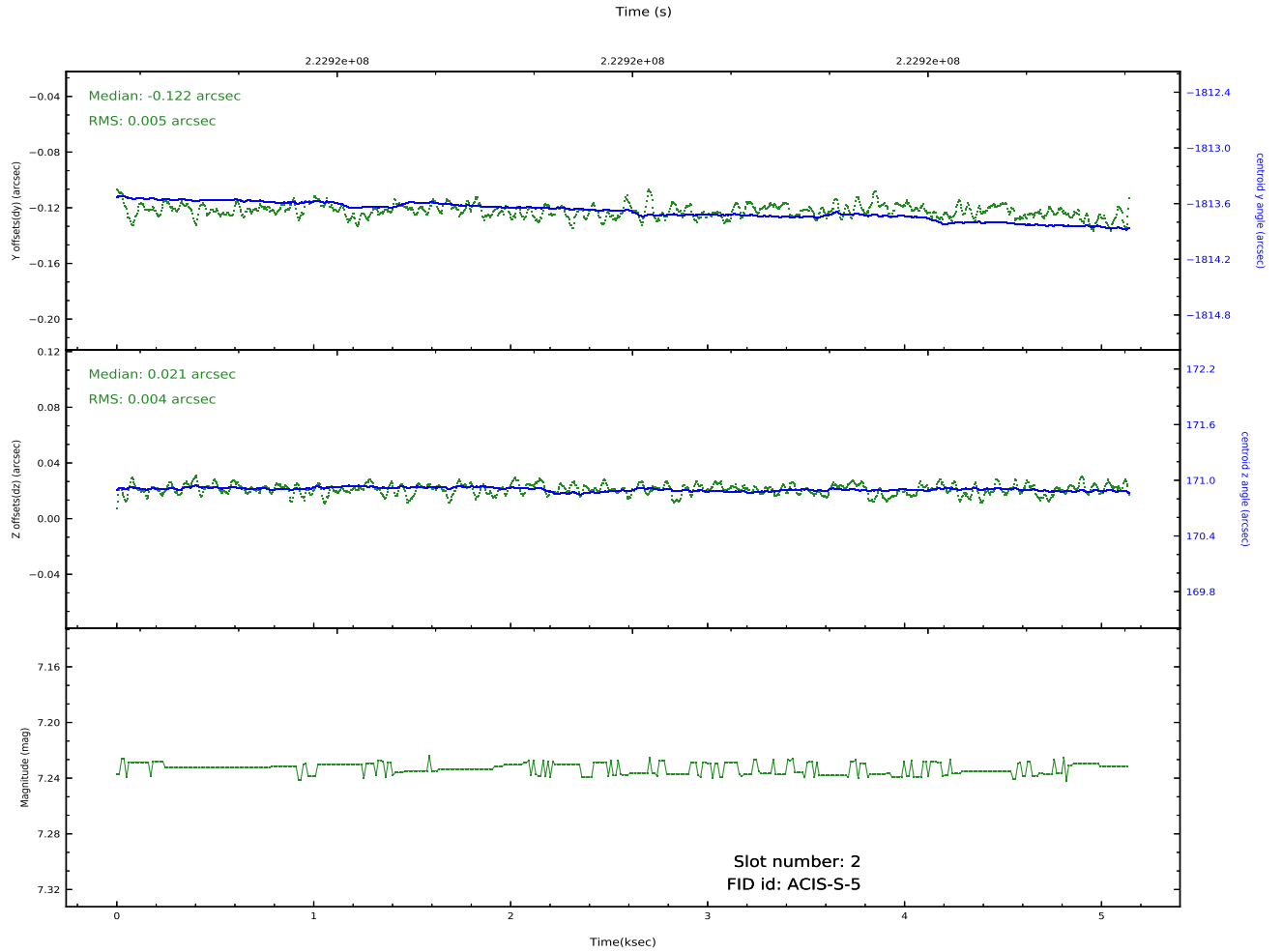
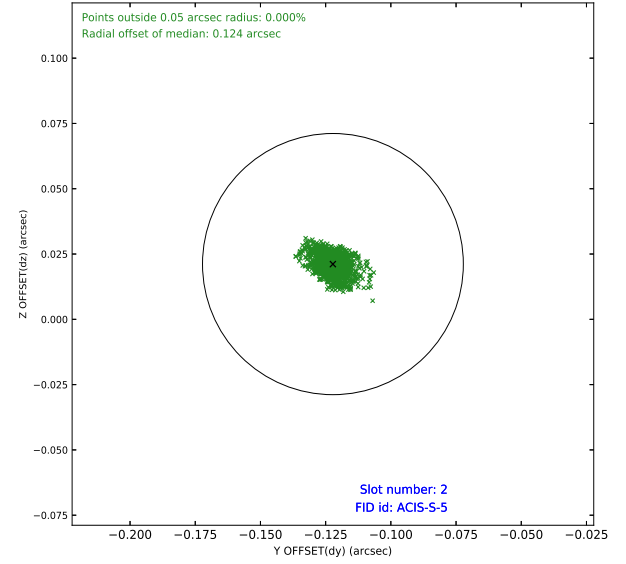
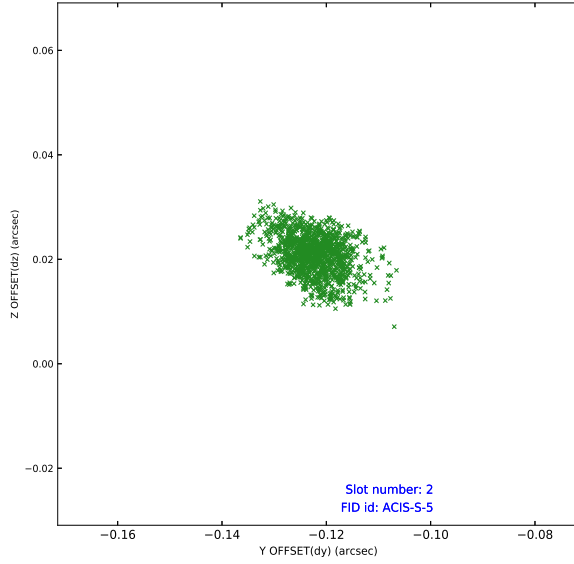
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1448

A.2 Comments

Joint proposal with HST.