

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4920 - L2 Version 5
Chandra X-Ray Center

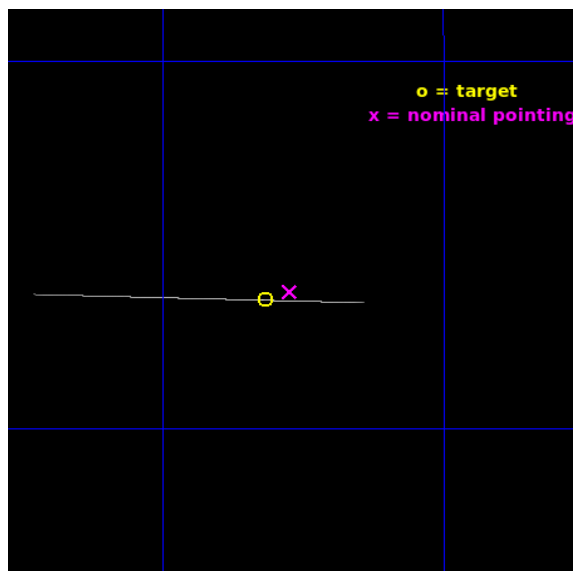
L2 Processing Date : Sep 24 2020

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1 Front

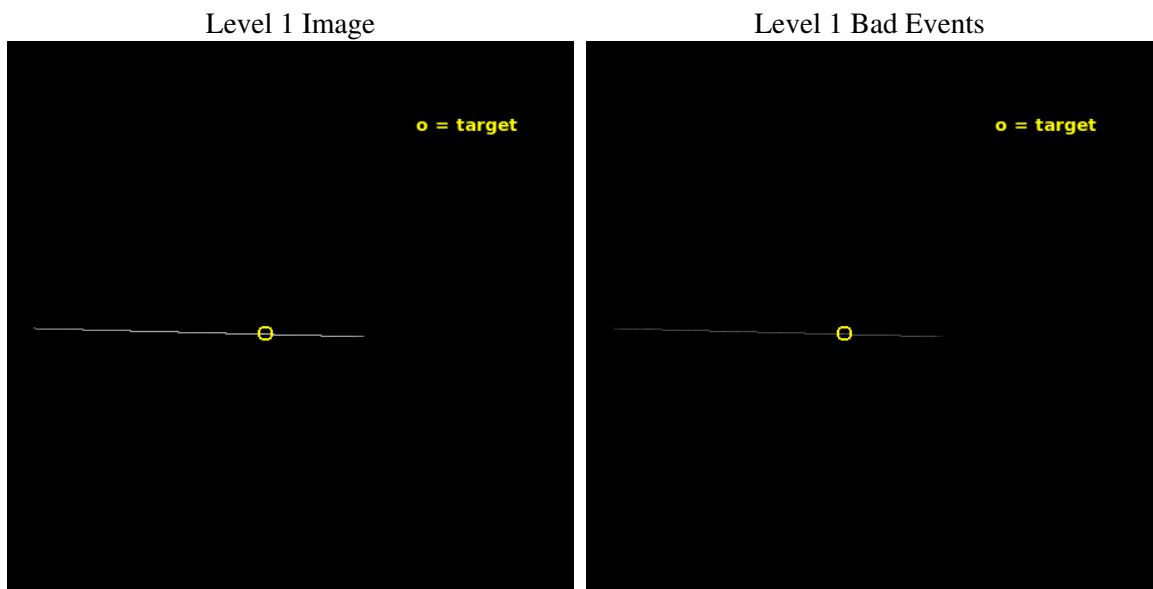
seq_num	701001	Sequence number
obs_id	4920	Observation id
title	HST/Chandra Monitoring of a Dramatic Flare in the M87 Jet	Proposal
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.69331737191	Nominal RA [deg]
dec_nom	12.395407161586	Nominal Dec [deg]
roll_nom	181.47952544626	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5232.5	Sum of GTIs [s]
livetime	5212.060546875	Livetime [s]
ontime7	5232.5	Sum of GTIs [s]
l2events	212513	Number of level 2 events



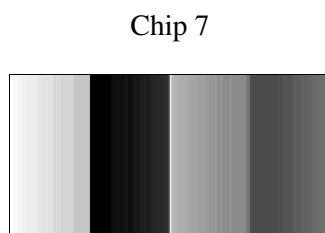
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5045.985000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5232.5	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	5232.5	Sum of GTIs [s]
date	2020-09-24T13:04:42	Date and time of file creation	l1events	234986	Number of level 1 events
revision	5	Processing version of data			

2.1.4 Events

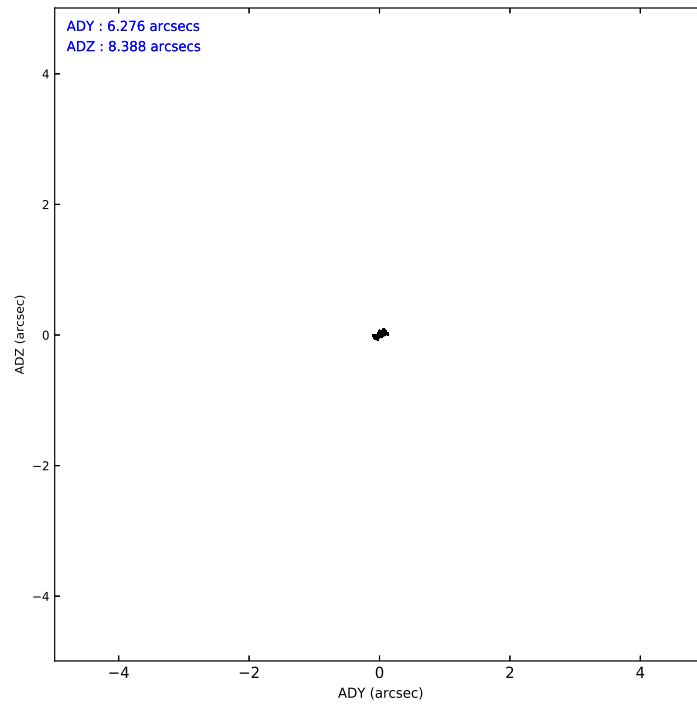
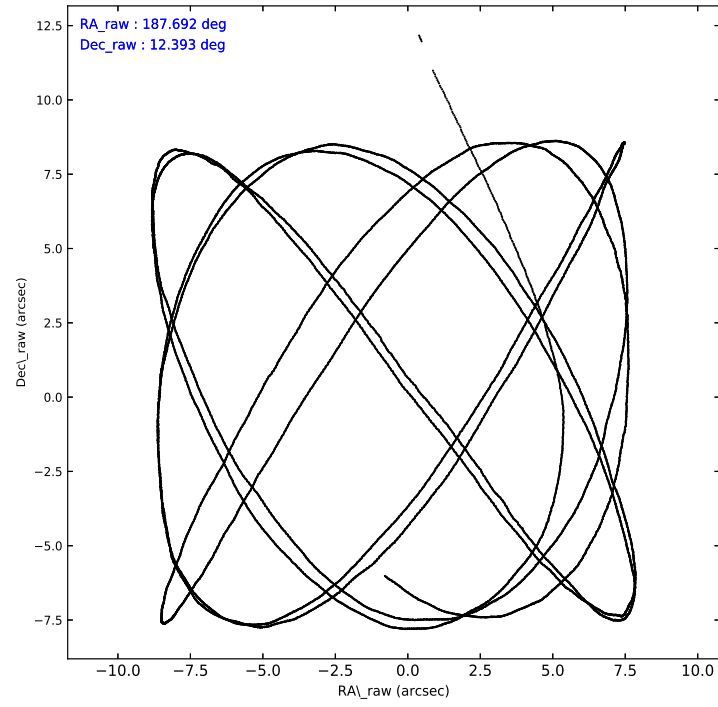
	ccd 7
level 1 events	234986
rejected events	17923
rejected %	7%

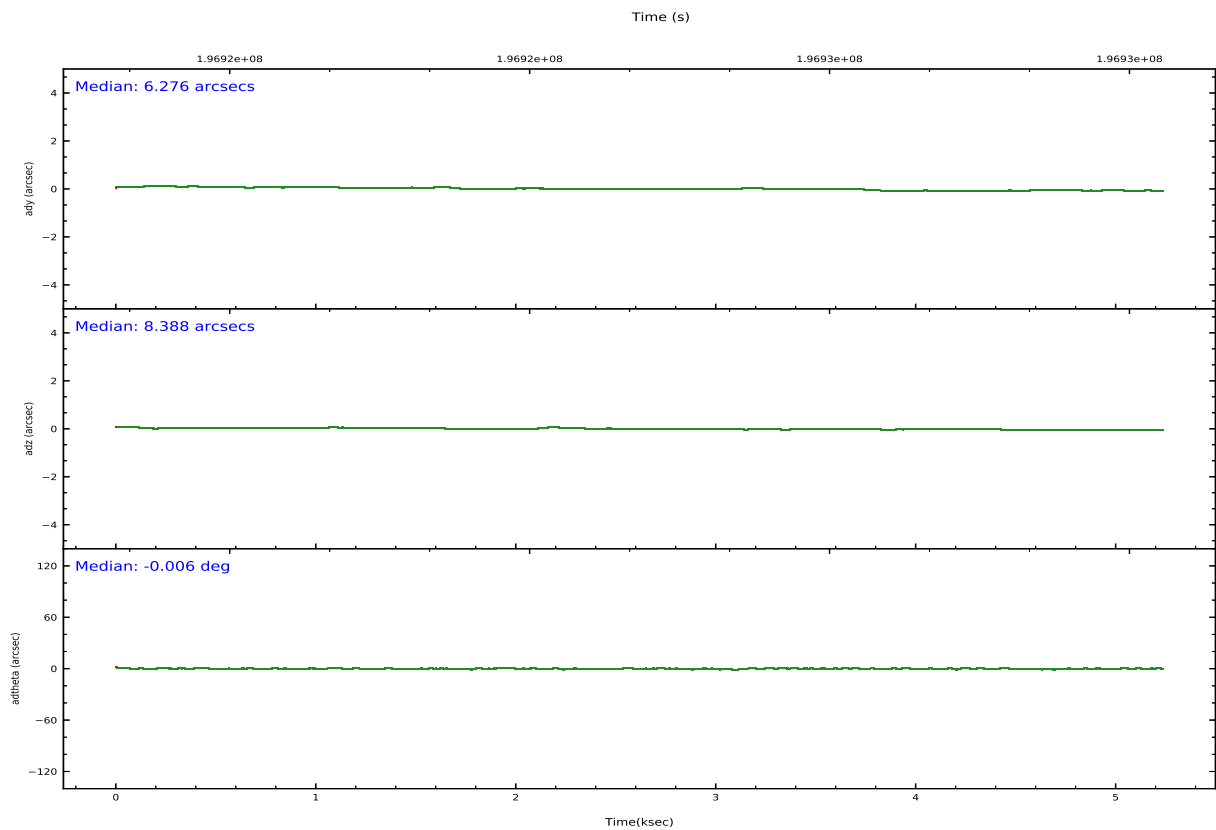
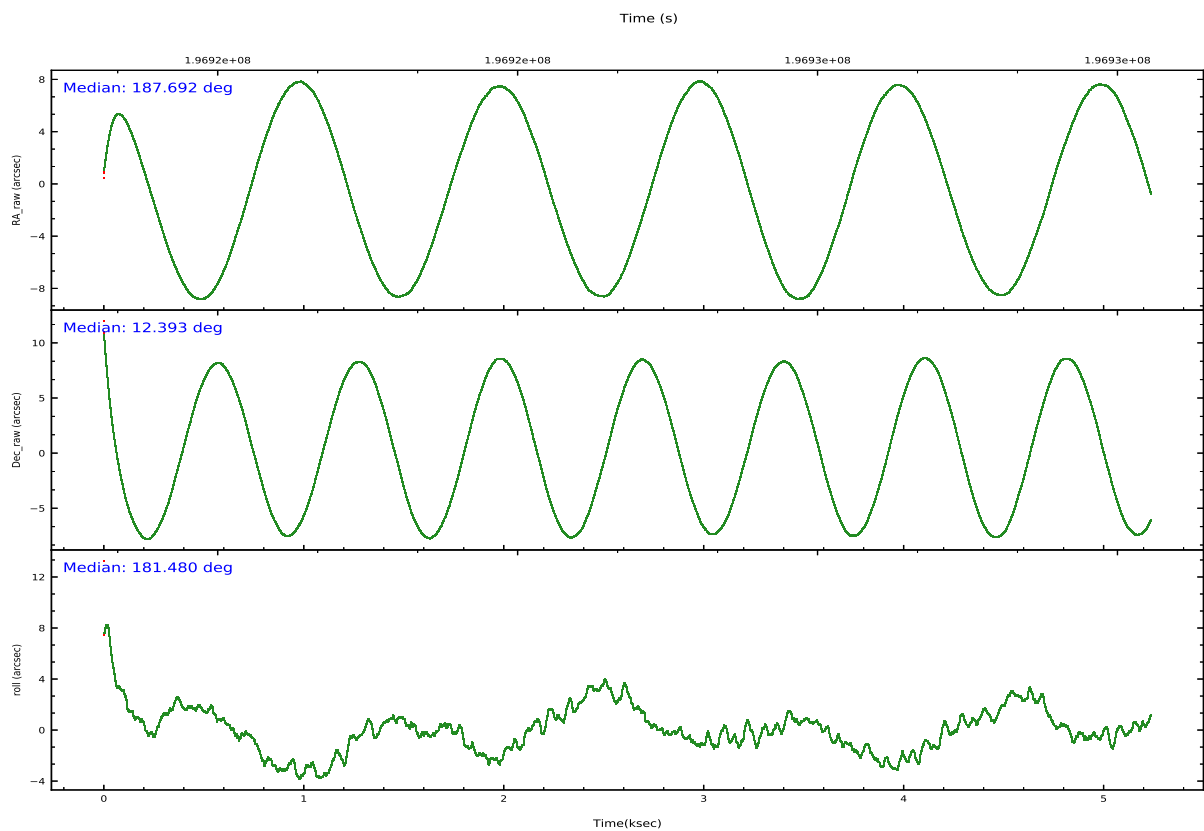
	ccd 7
grade 0 events	61324
	26%
grade 1 events	116
	0%
grade 2 events	59282
	25%
grade 3 events	22597
	9%
grade 4 events	22541
	9%
grade 5 events	5789
	2%
grade 6 events	63337
	26%
grade 7 events	0
	0%

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	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	187.715053	187.69331737191	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.407578	12.395407161586	Alternating exposures requested	N	N
[deg] Pointing Roll	181.316315	181.47952544626	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-182.132523	-182.1370004450064			
[mm] SIM translation stage offset	-8	-7.995522138001405			
[s] Observation start time (MET)	196922122.184000	196921055.36867			
Observation start date	2004-03-29T04:34:18	2004-03-29T04:17:35			
[s] Observation end time (MET)	196927168.184000	196927482.63145			
Observation end date	2004-03-29T05:58:24	2004-03-29T06:04:42			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



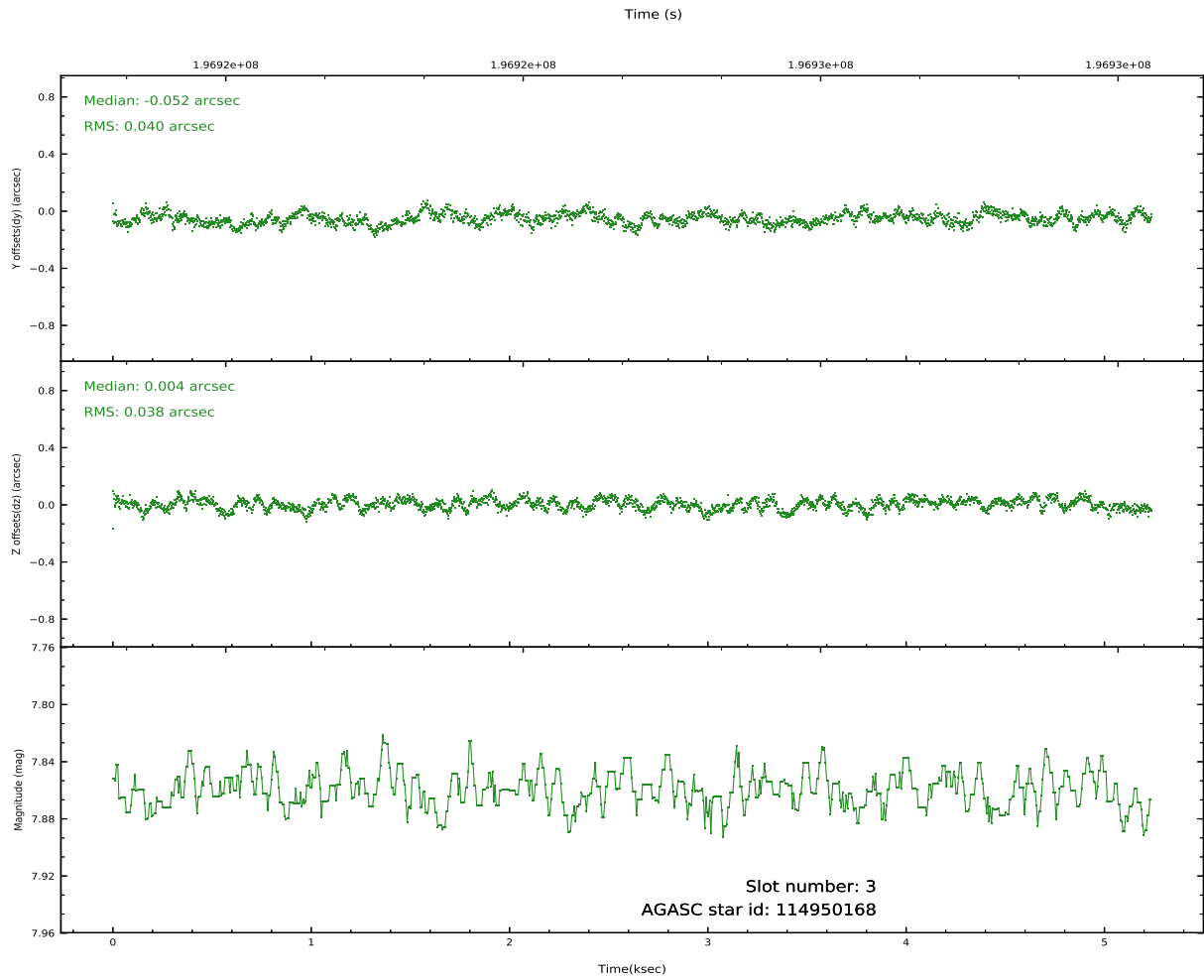
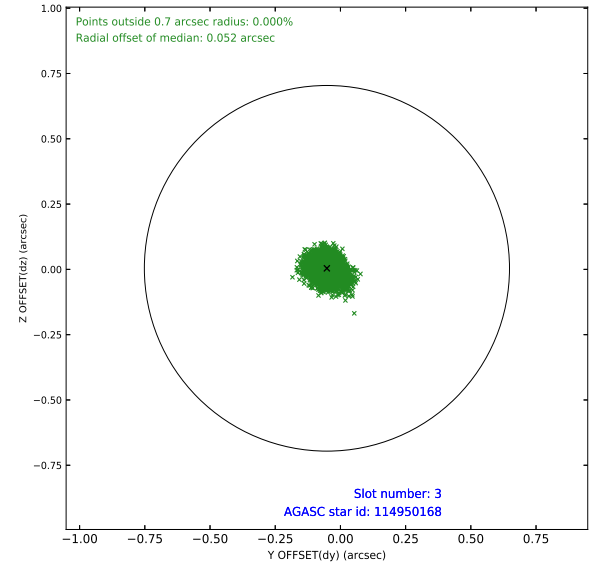
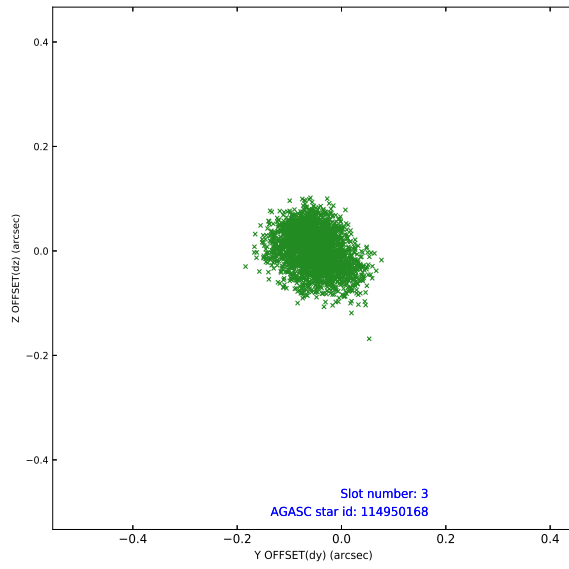


Slot Statistics

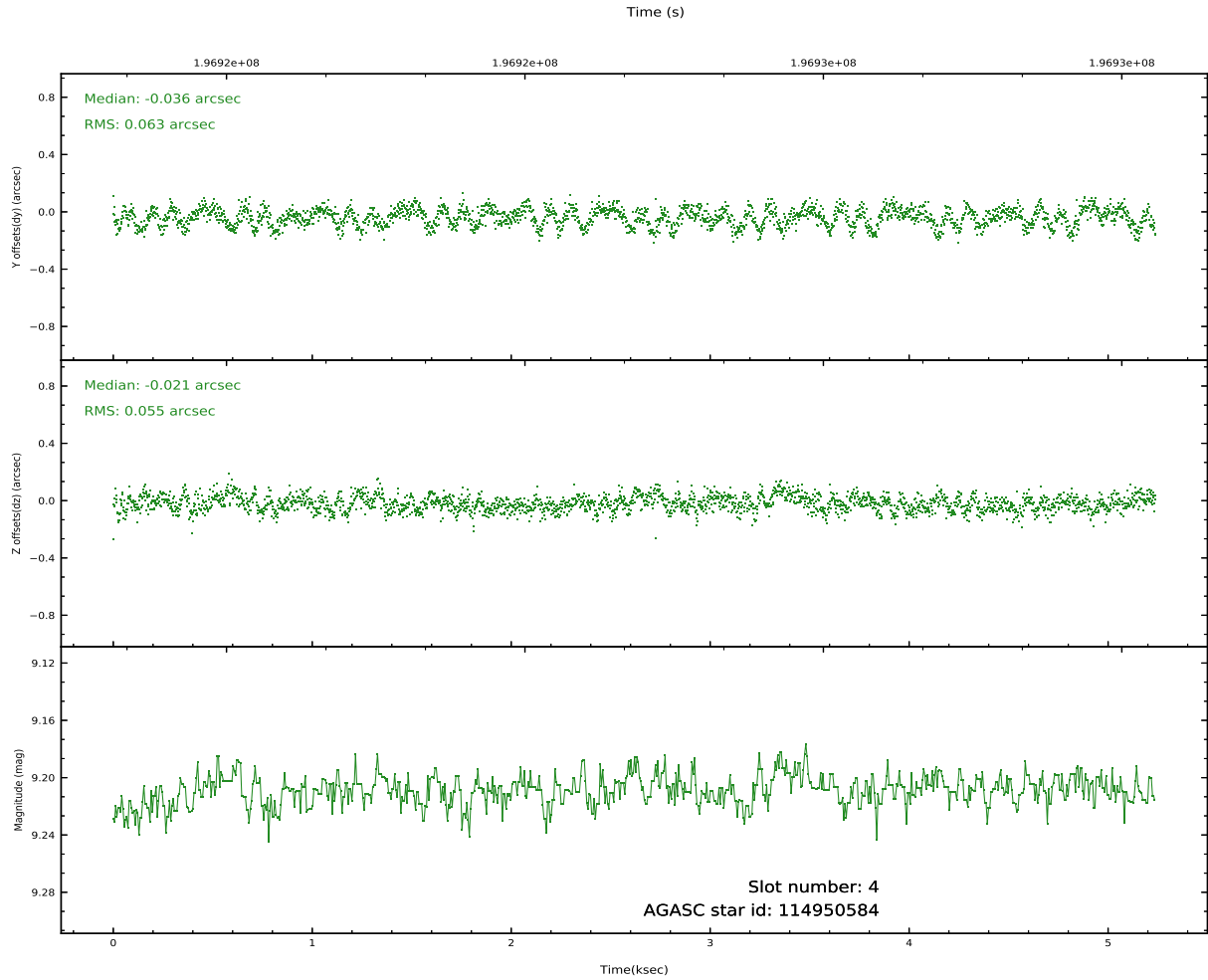
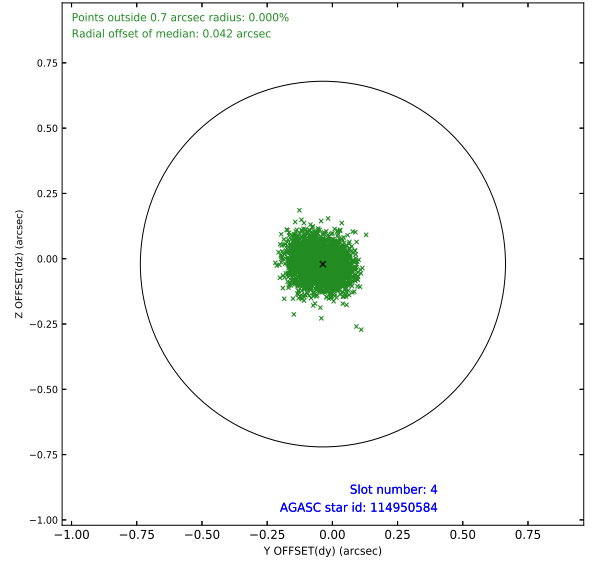
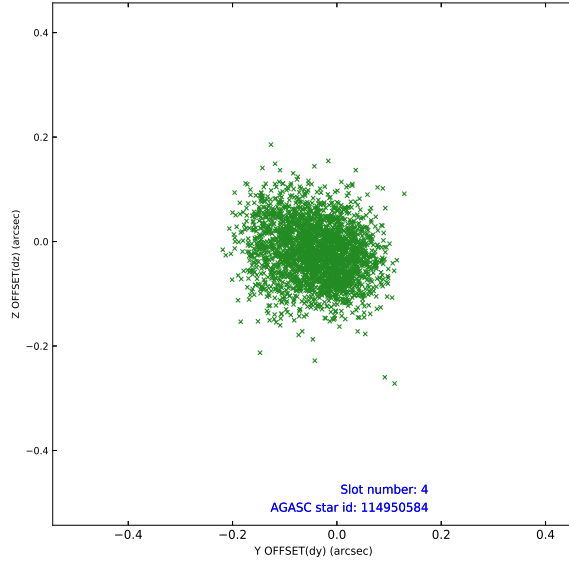
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	1278	1.000	0.042	0.092	0.007	0.013	0.000000	0.000000	937.66	-1889
1	FID		ACIS-S-5	7.23	1278	1.000	-0.146	0.040	0.008	0.013	0.000000	0.000000	-1810.89	6
2	FID		ACIS-S-6	7.42	1278	1.000	0.083	-0.120	0.007	0.012	0.000000	0.000000	401.99	651
3	GUIDE	used	114950168	7.86	2555	1.000	-0.052	0.004	0.059	0.094	187.143398	12.117441	2035.65	995
4	GUIDE	used	114950584	9.21	2555	1.000	-0.036	-0.021	0.089	0.140	187.487323	11.827248	851.23	2070
5	GUIDE	used	114952792	9.52	2553	1.000	0.081	-0.112	0.090	0.143	187.070263	12.344747	2273.16	172
6	GUIDE	used	114955056	8.33	2555	1.000	-0.023	0.041	0.053	0.087	187.914001	12.127854	-675.58	1022
7	GUIDE	used	114955568	7.52	2555	1.000	0.029	0.091	0.047	0.076	187.061916	11.826551	2349.02	2035

2.4 Star Slots

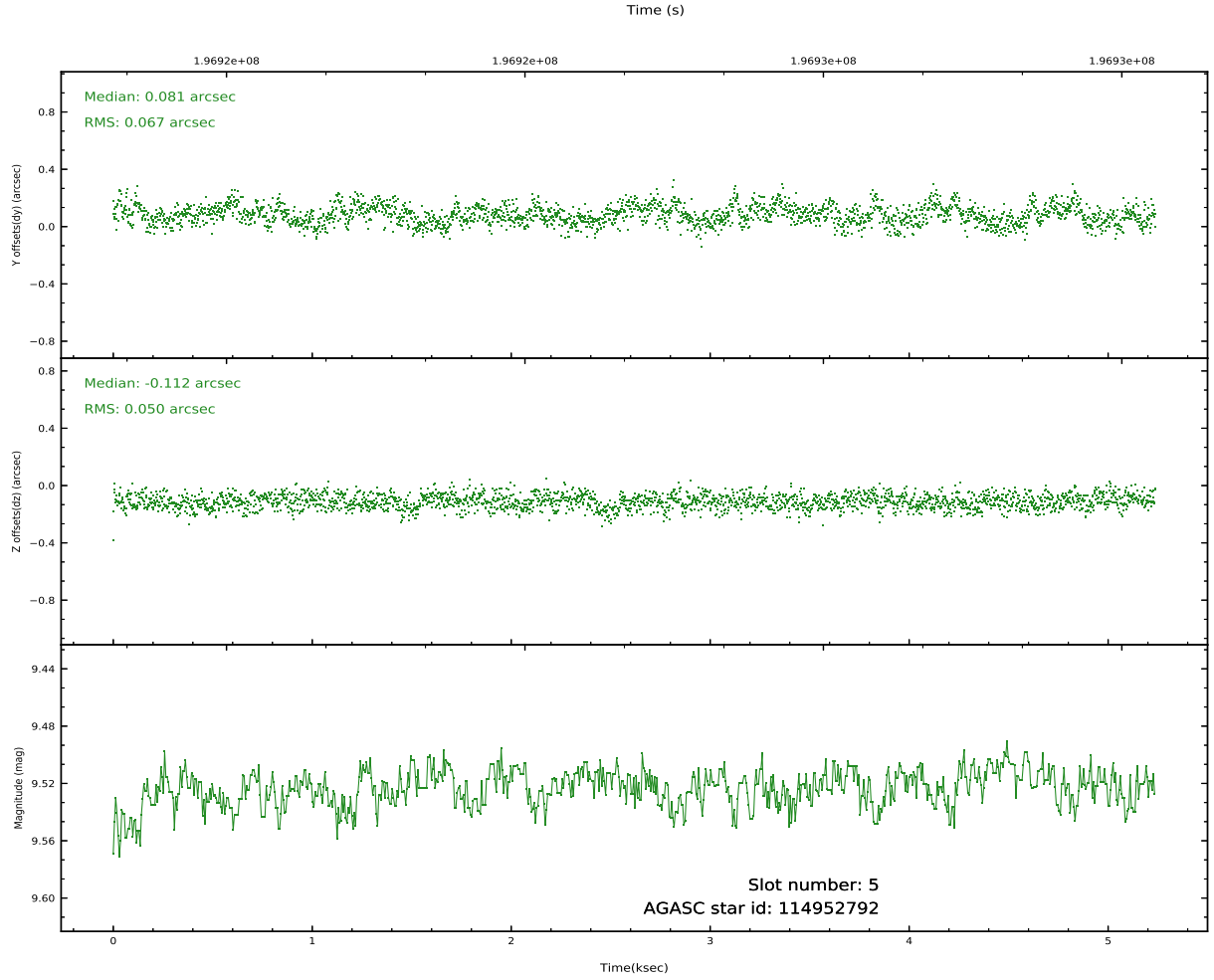
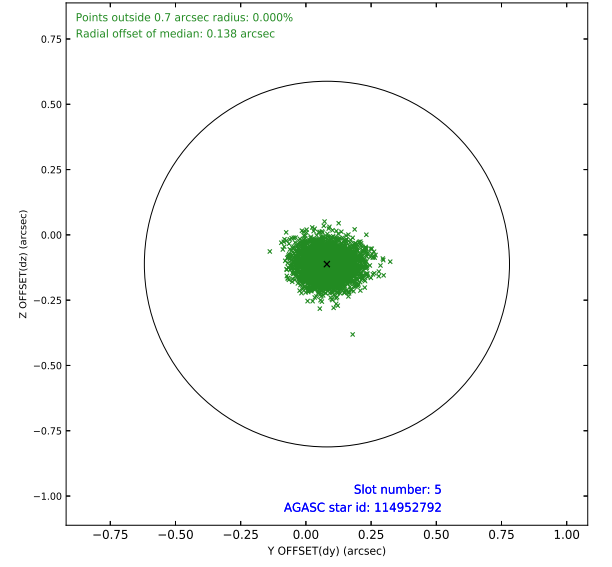
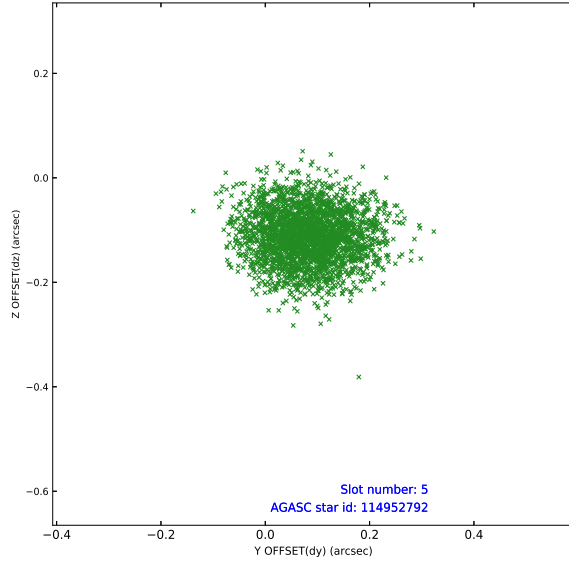
2.4.1 Slot 3



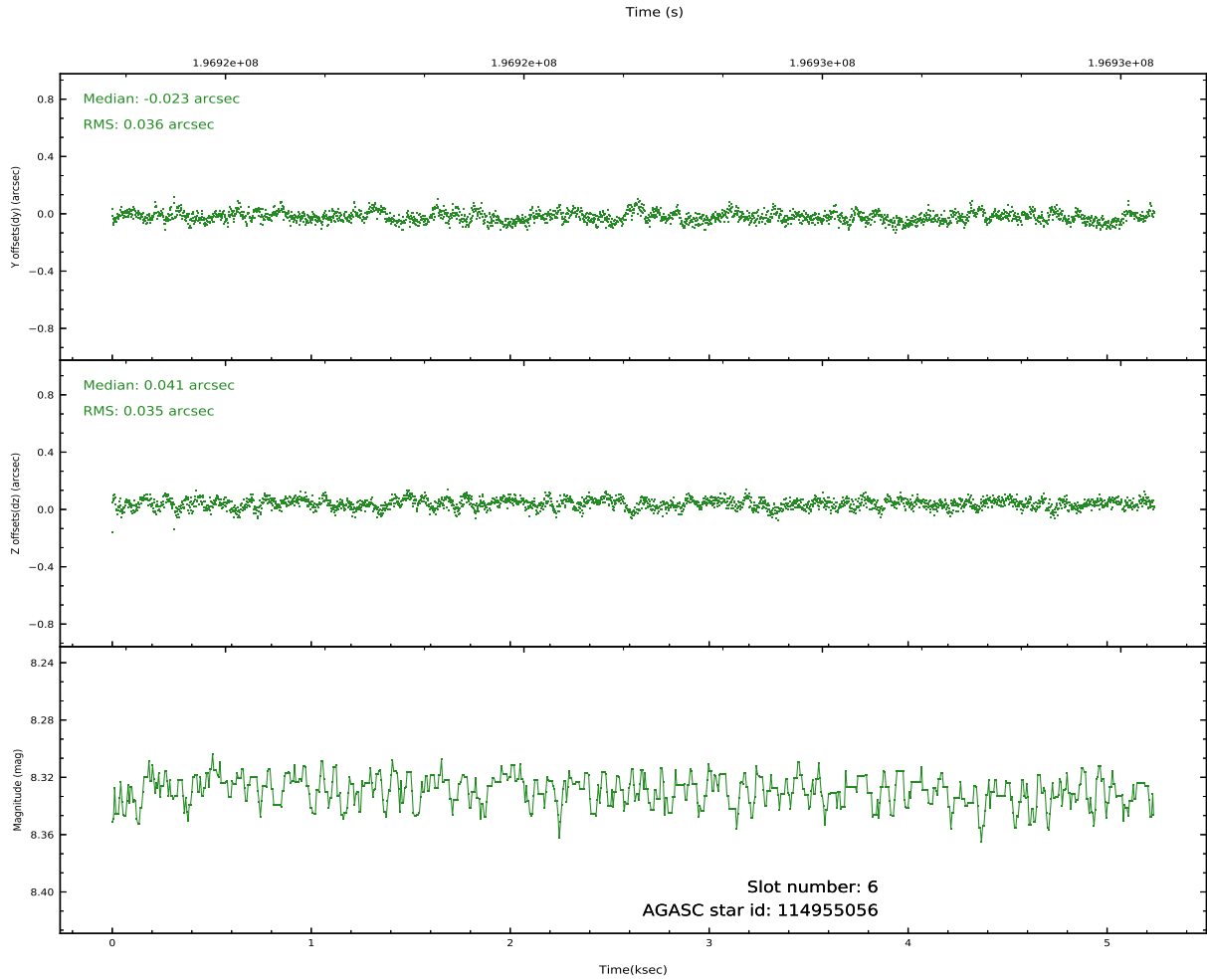
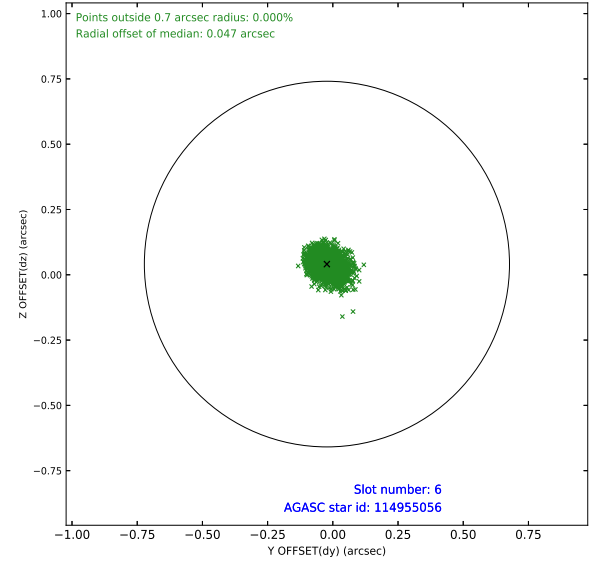
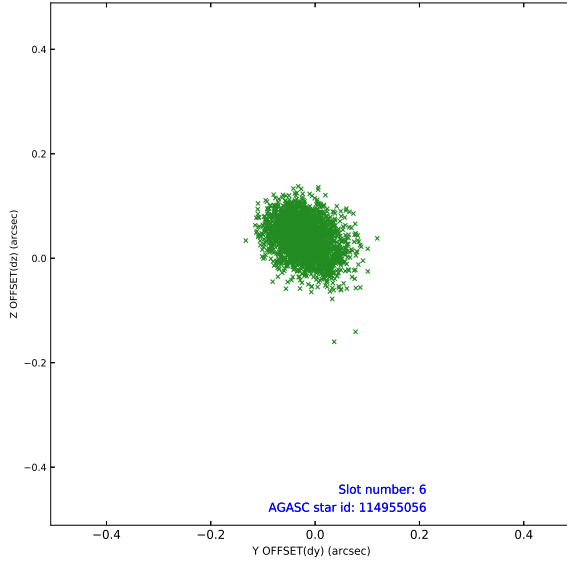
2.4.2 Slot 4



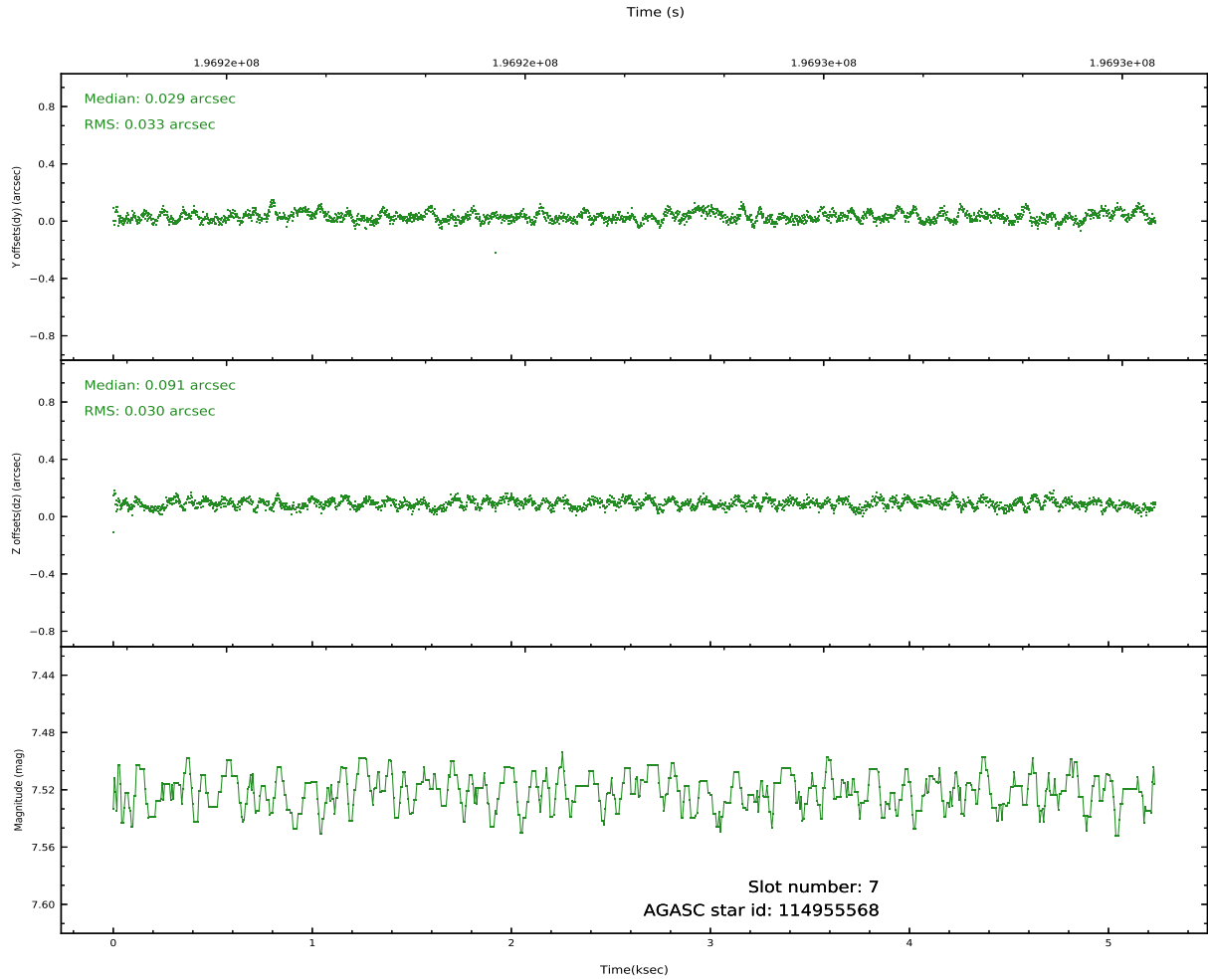
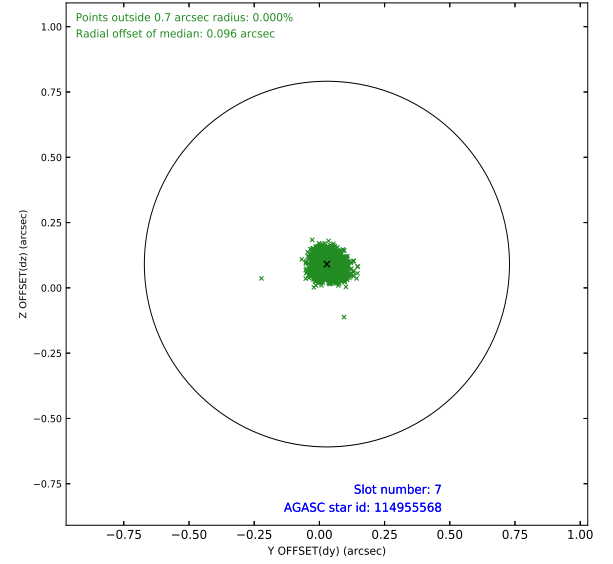
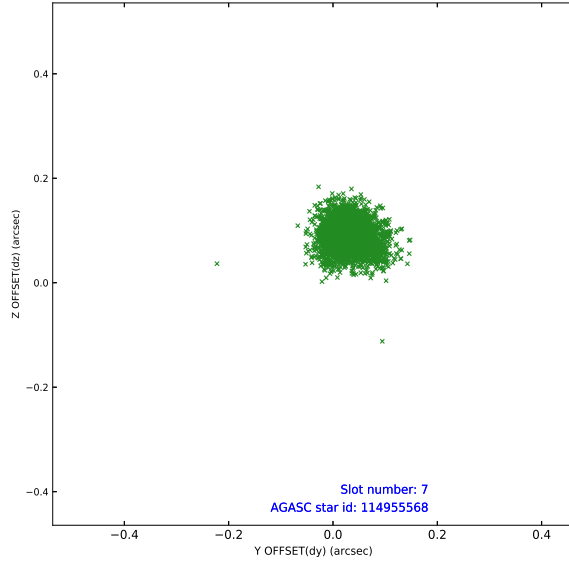
2.4.3 Slot 5



2.4.4 Slot 6

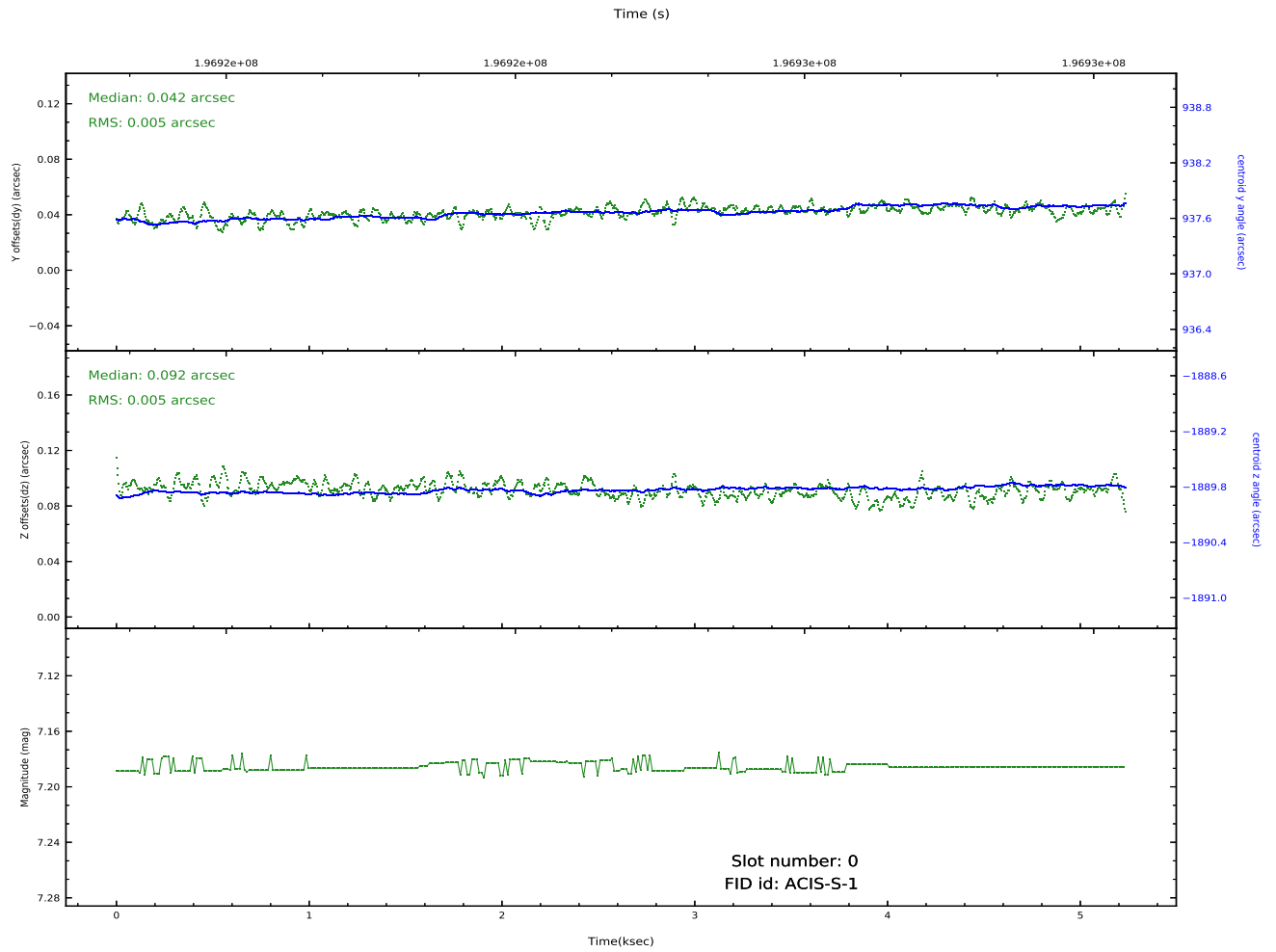
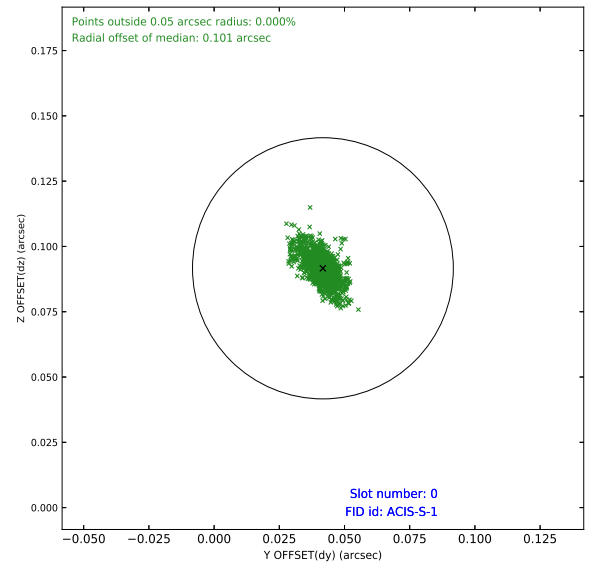
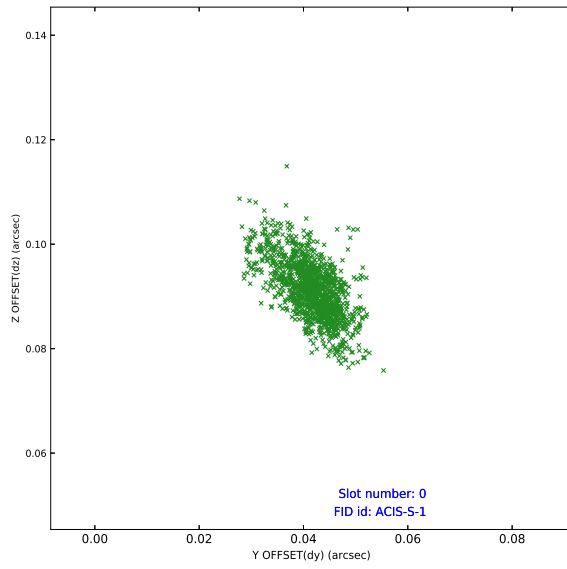


2.4.5 Slot 7

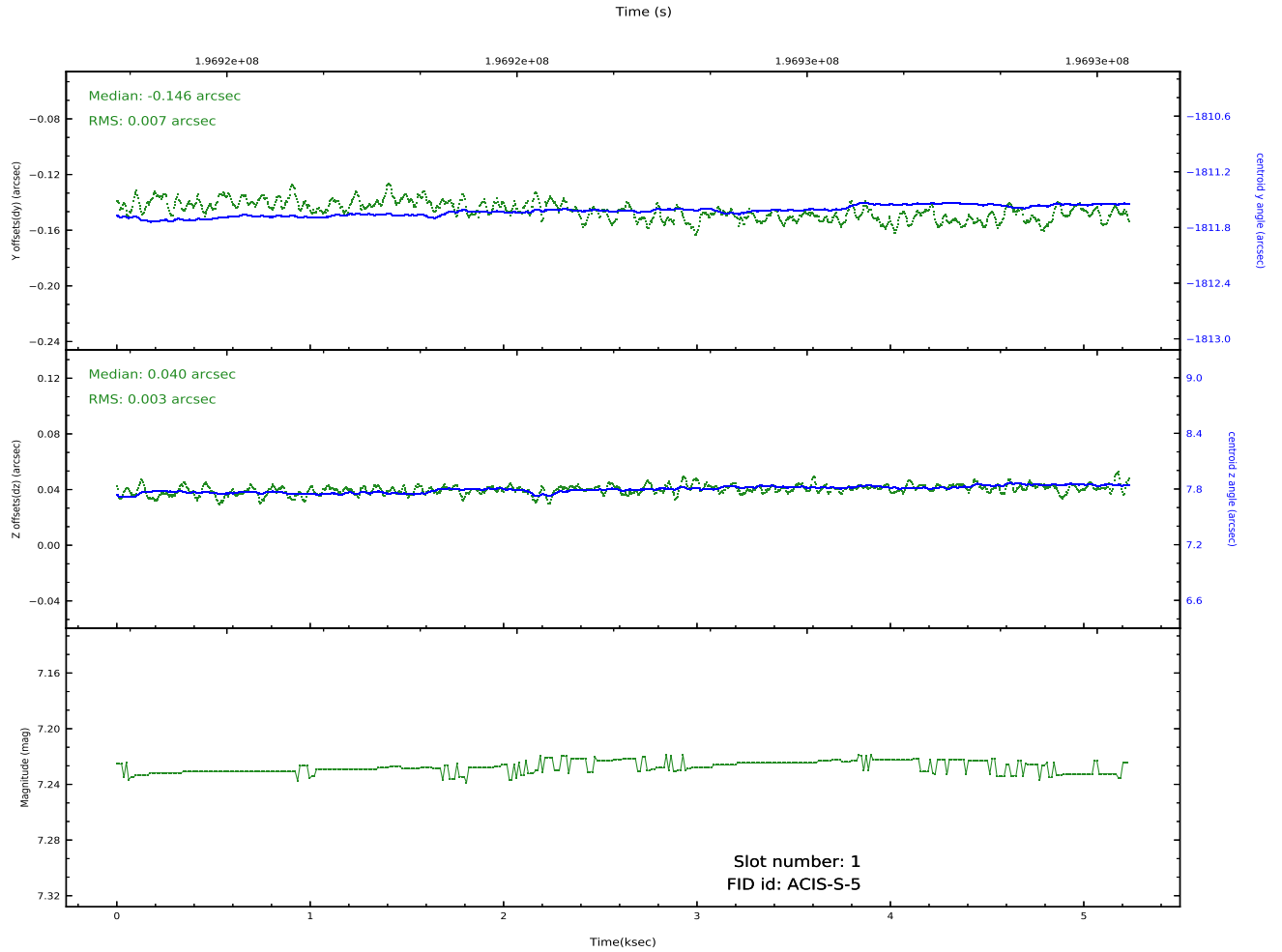
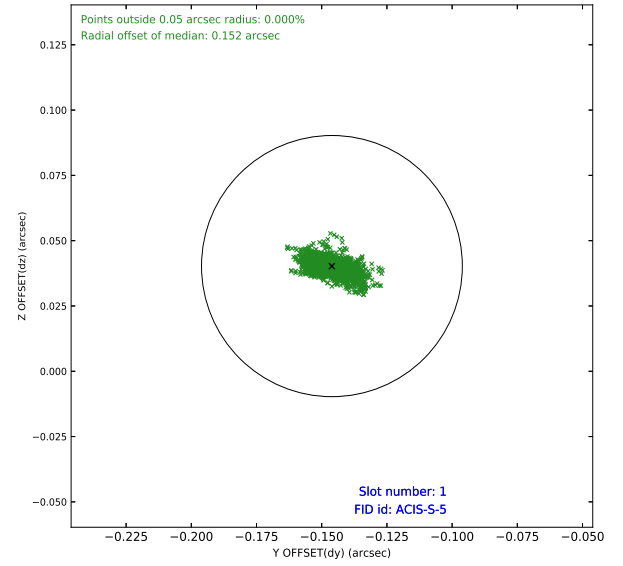
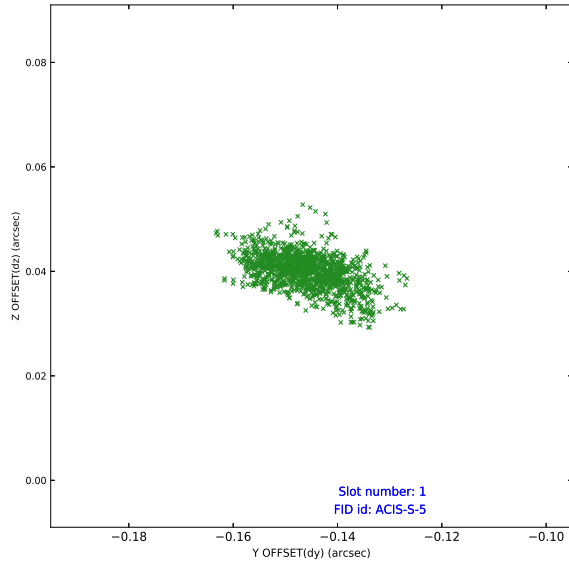


2.5 FID Slots

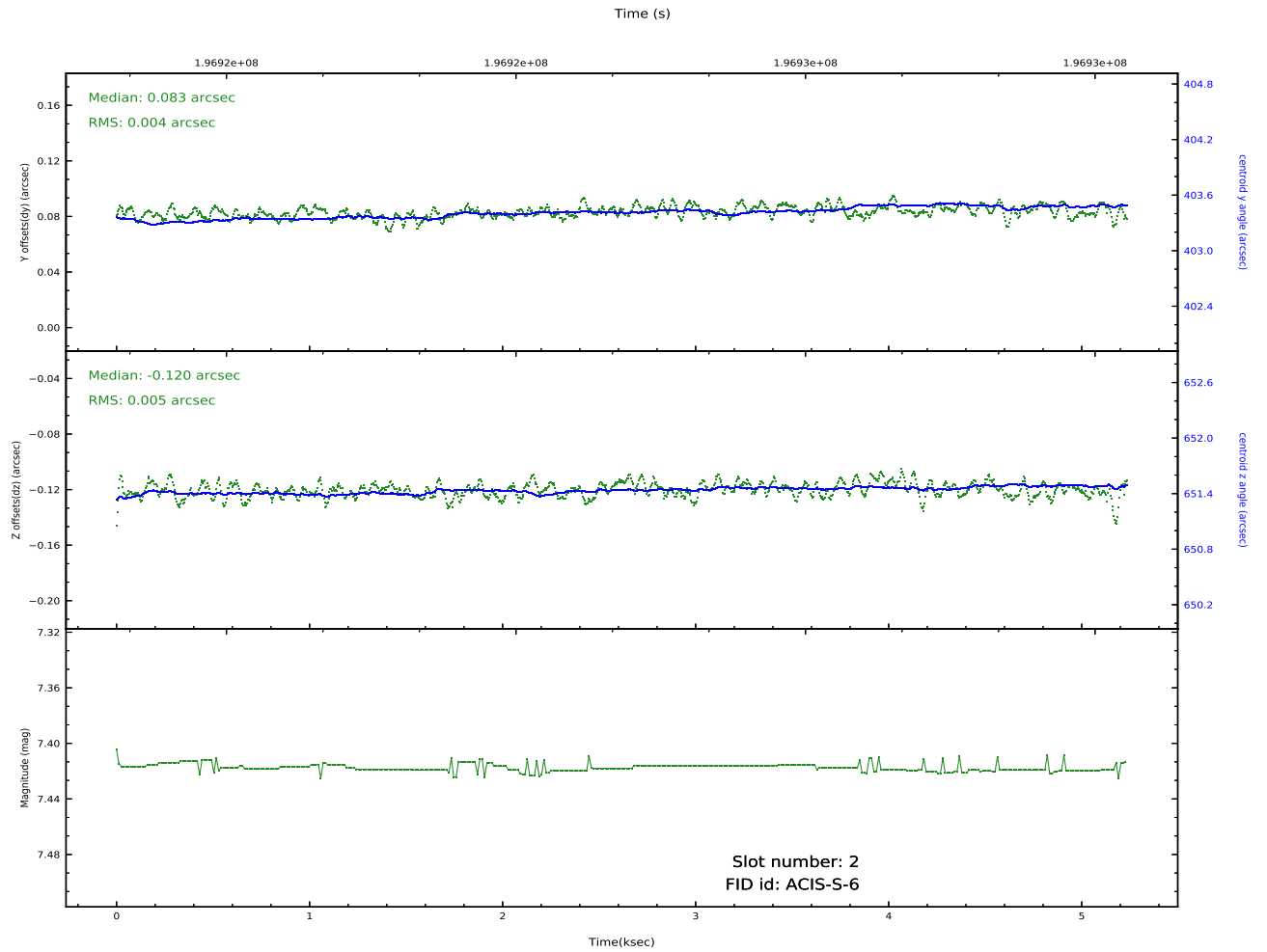
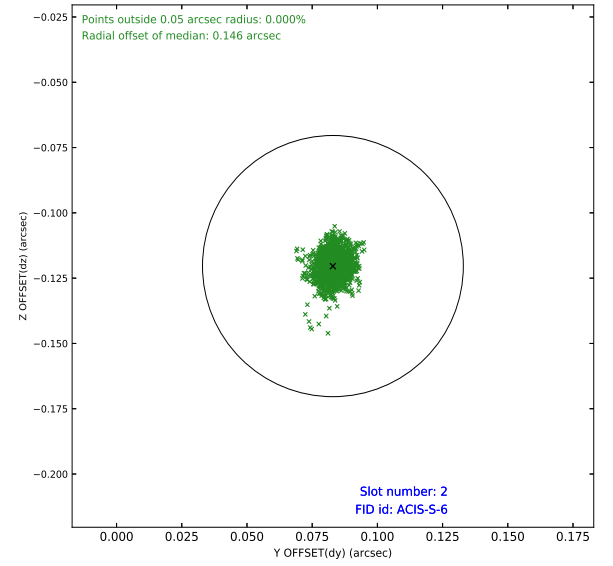
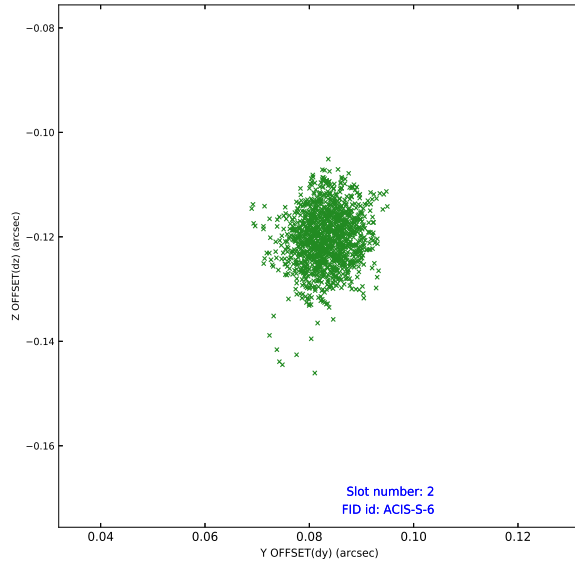
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Melania Nynka
V&V Date (YYYY-MM-DD)	2020.10.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.235

A.2 Comments