

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4673 - L2 Version 5
Chandra X-Ray Center

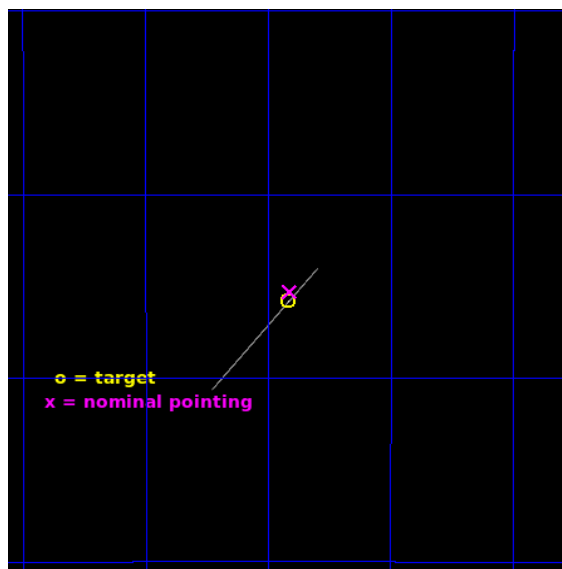
L2 Processing Date : Sep 29 2020

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1 Front

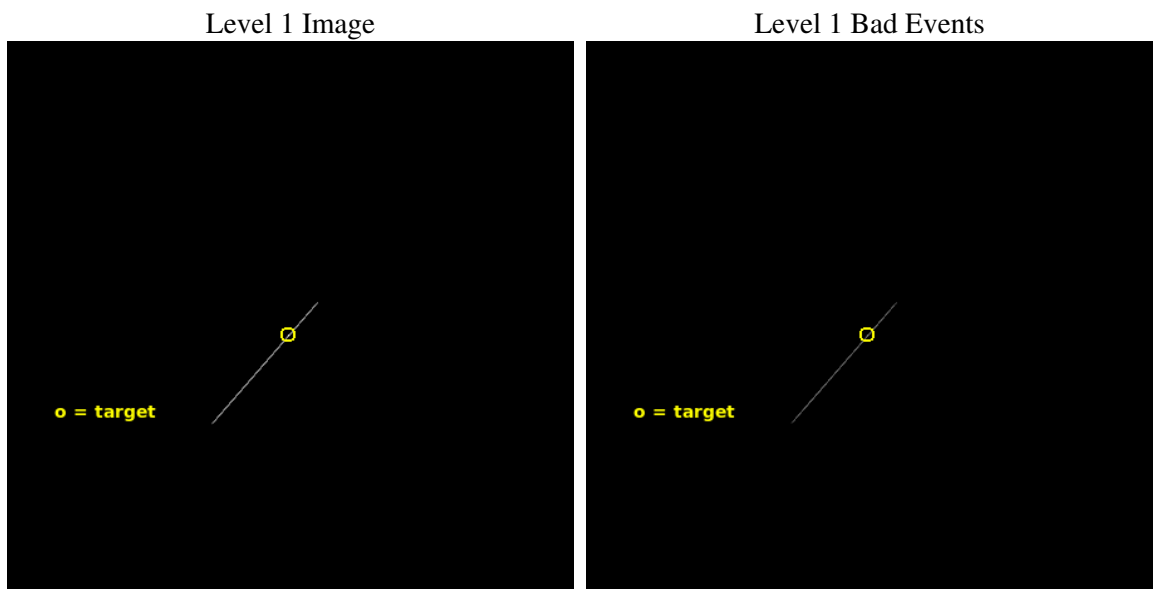
seq_num	500492	Sequence number
obs_id	4673	Observation id
title	Timing the Enigmatic Nearby Neutron Star RX J0720.4-3125	Proposal
observer	Prof. David Kaplan	Principal investigator
object	RX J0720.4-3125	Source name
ra_targ	110.104167	Observer's specified target RA [deg]
dec_targ	-31.430444	Observer's specified target Dec [deg]
ra_nom	110.10257767671	Nominal RA [deg]
dec_nom	-31.421851459843	Nominal Dec [deg]
roll_nom	129.83312624886	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5131.0	Sum of GTIs [s]
livetime	5110.95703125	Livetime [s]
ontime7	5131.0	Sum of GTIs [s]
l2events	28502	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	5131.0	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	5131.0	Sum of GTIs [s]
date	2020-09-29T07:33:49	Date and time of file creation	l1events	38774	Number of level 1 events
revision	5	Processing version of data			

2.1.4 Events

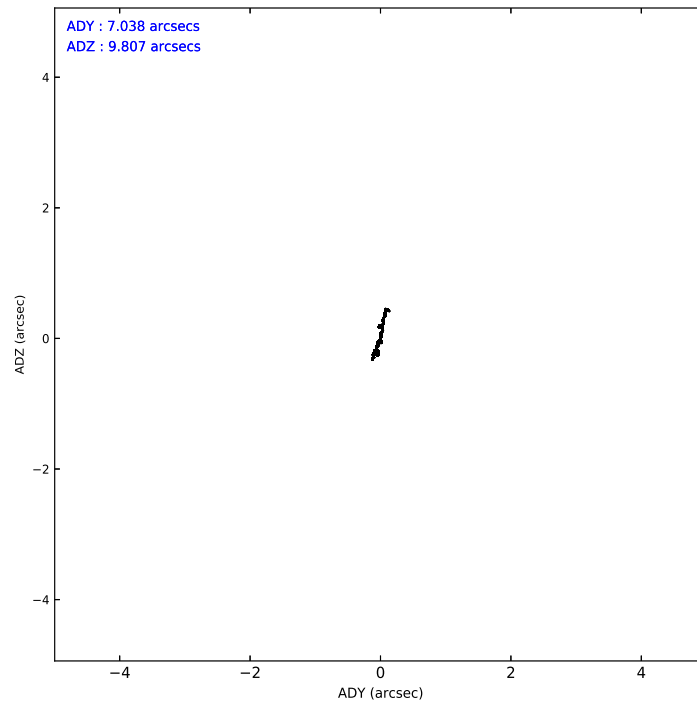
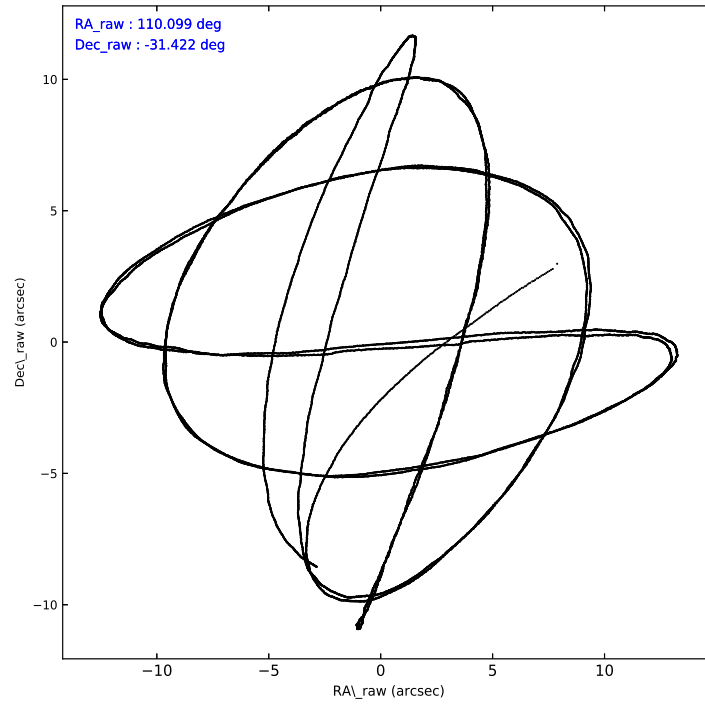
	ccd 7
level 1 events	38774
rejected events	9404
rejected %	24%

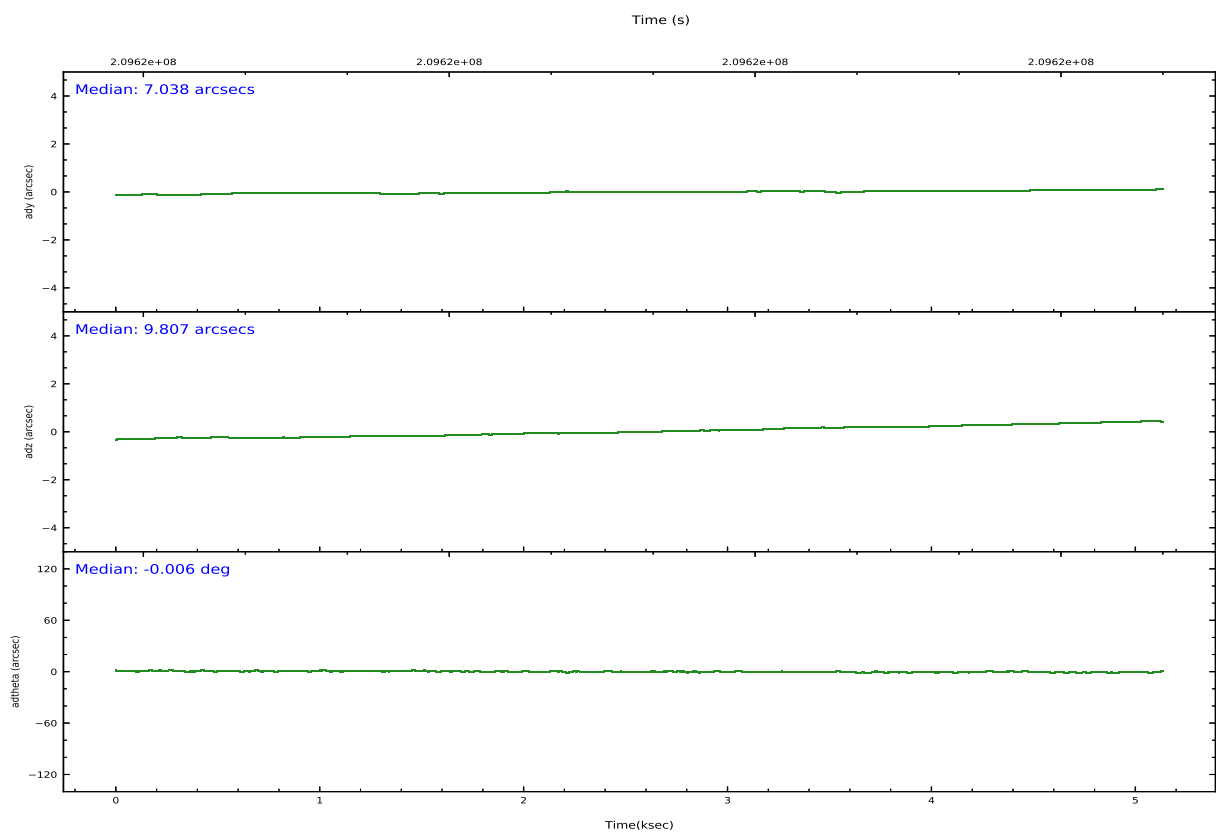
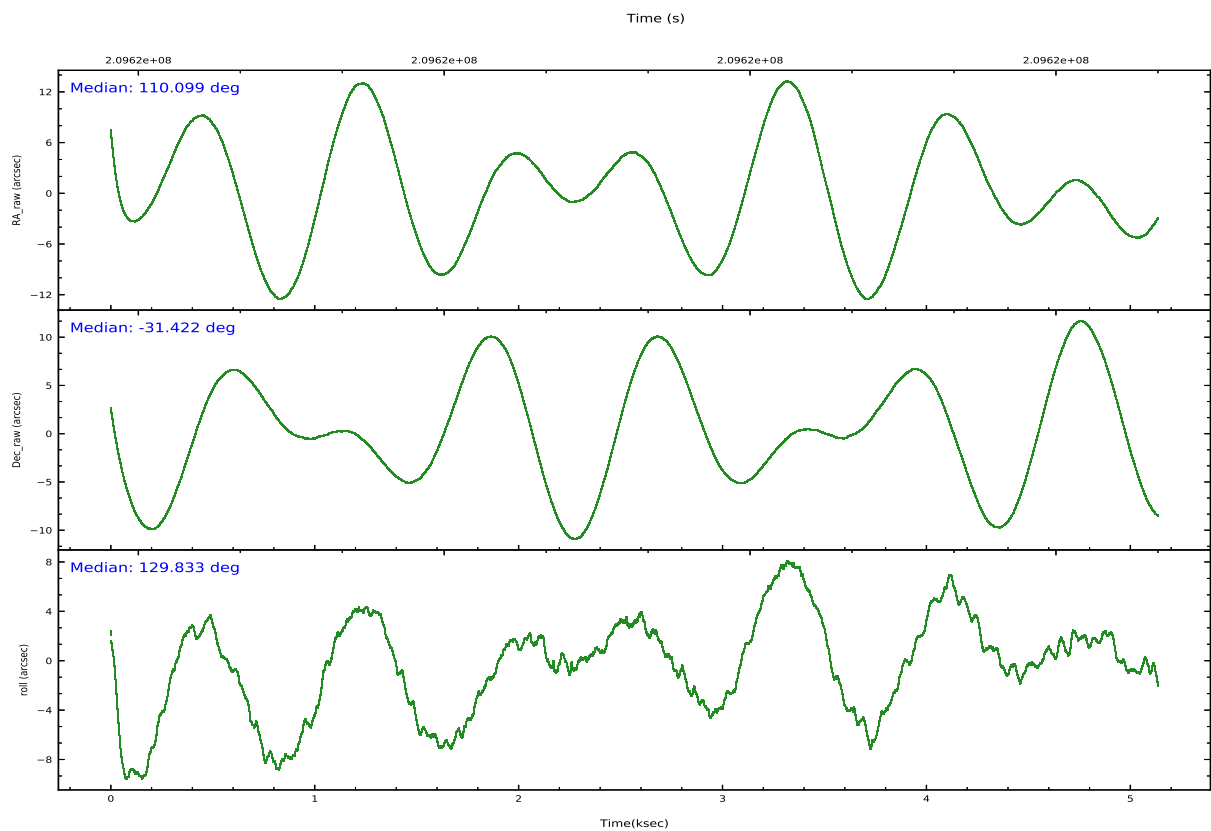
	ccd 7
grade 0 events	7652
	19%
grade 1 events	91
	0%
grade 2 events	8049
	20%
grade 3 events	2540
	6%
grade 4 events	2543
	6%
grade 5 events	4833
	12%
grade 6 events	13066
	33%
grade 7 events	0
	0%

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	110.128652	110.10257767671	Subarray requested	NONE	NONE
[deg] Pointing Dec	-31.431082	-31.421851459843	Alternating exposures requested	N	N
[deg] Pointing Roll	129.695648	129.83312624886	[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	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	209620000.184000	209618782.06796			
Observation start date	2004-08-23T03:45:36	2004-08-23T03:26:22			
[s] Observation end time (MET)	209625000.184000	209625876.09328			
Observation end date	2004-08-23T05:08:56	2004-08-23T05:24:36			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



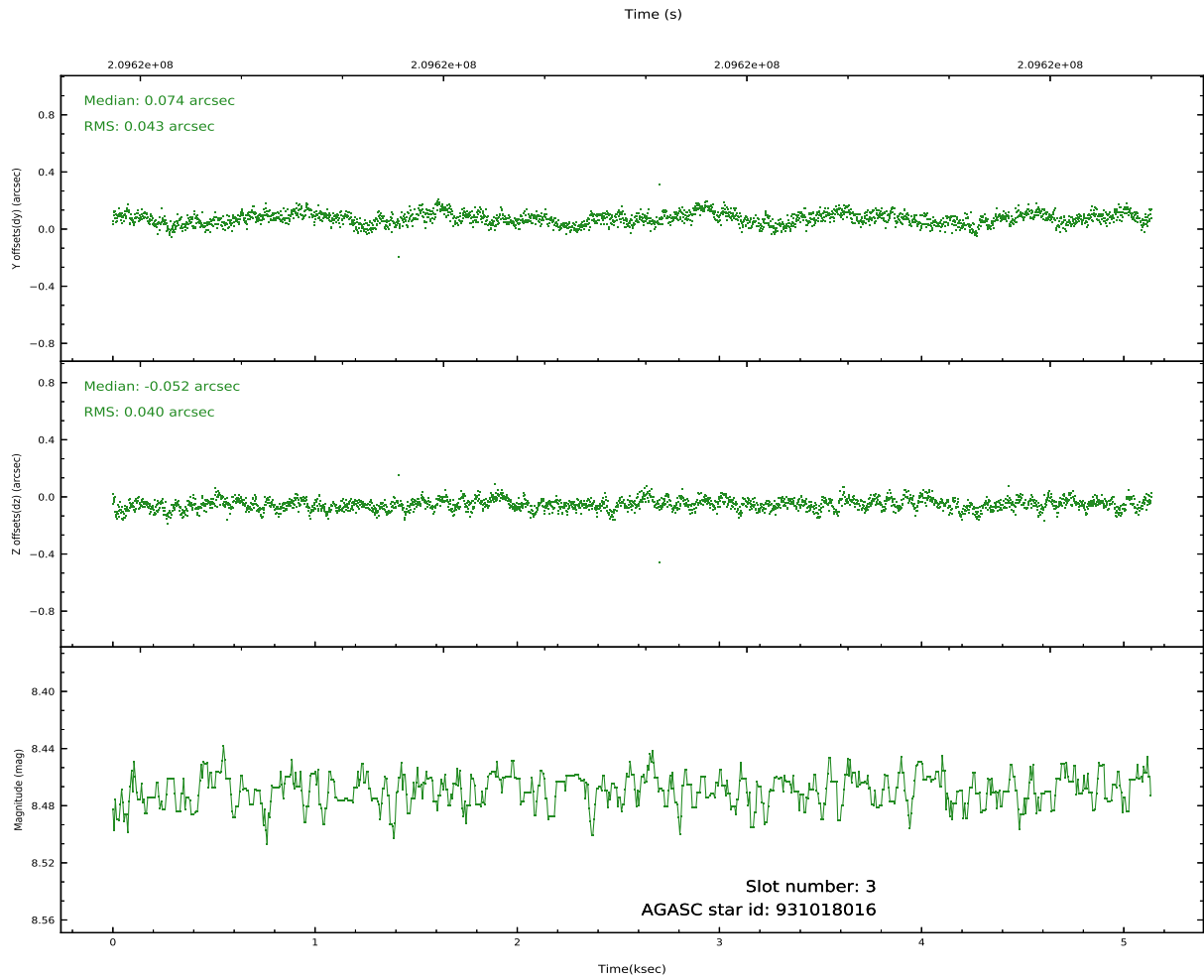
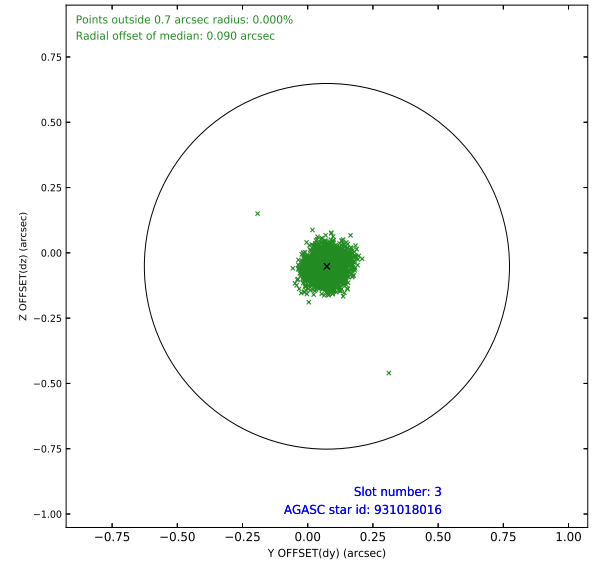
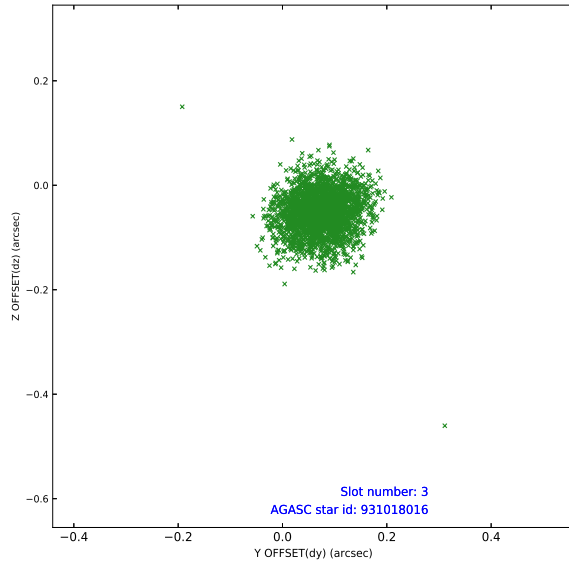


Slot Statistics

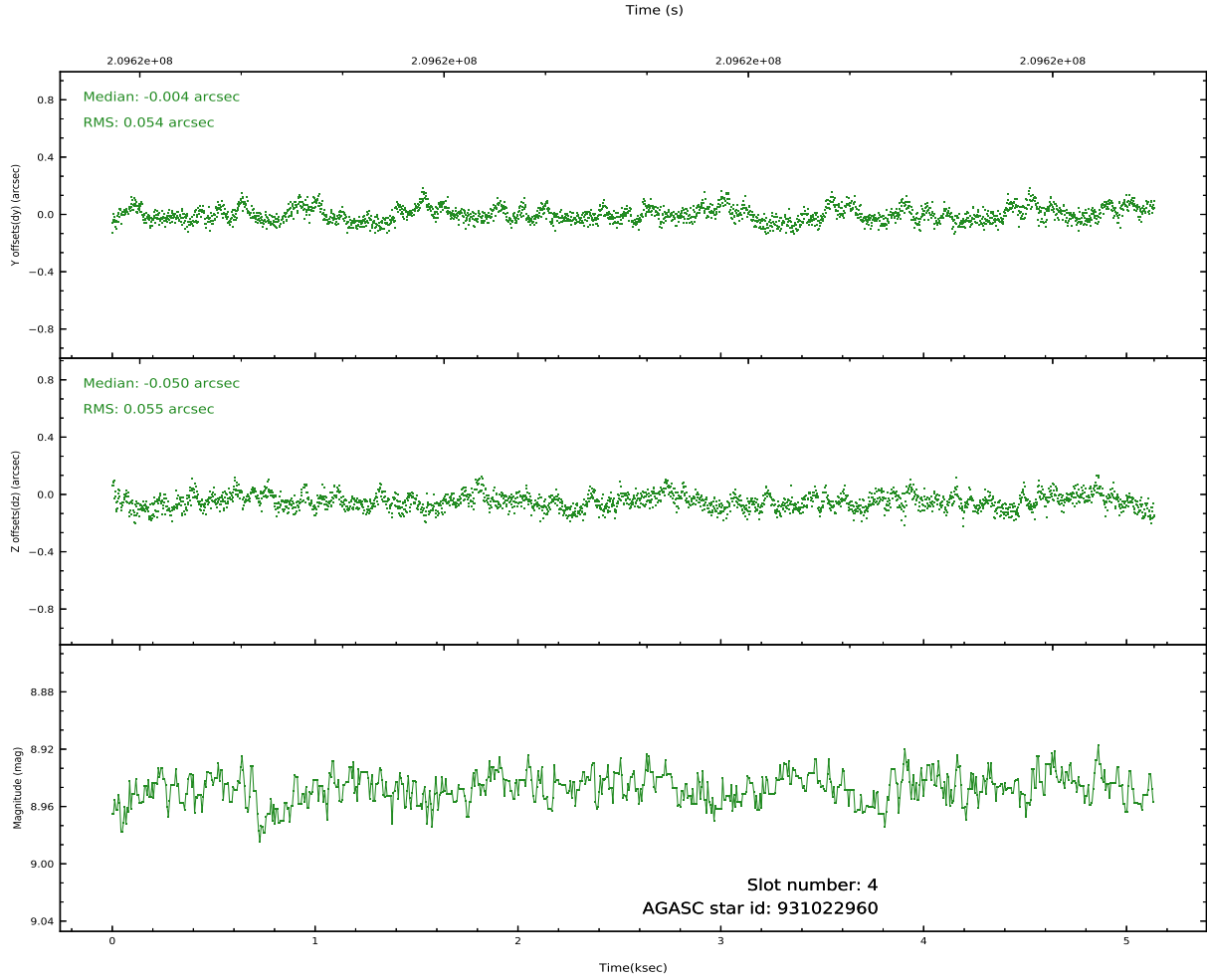
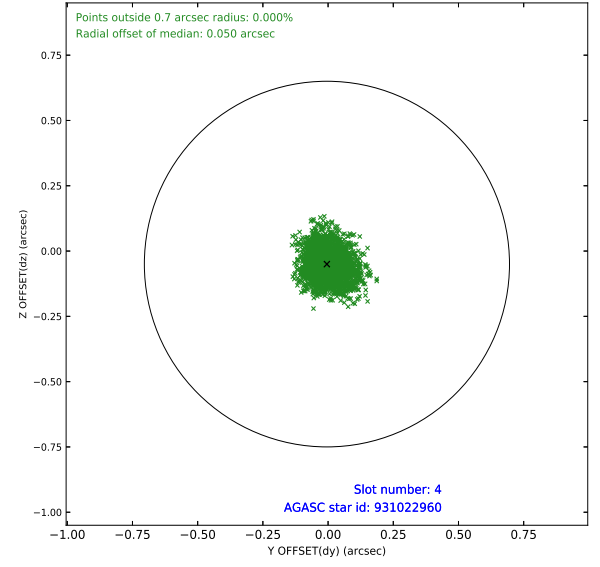
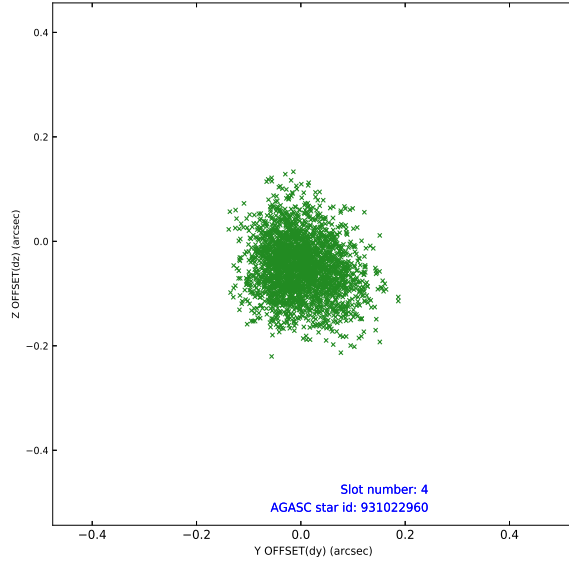
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	1253	1.000	0.042	-0.054	0.013	0.019	0.000000	0.000000	936.32	-1726
1	FID		ACIS-S-5	7.24	1254	1.000	-0.097	0.020	0.007	0.011	0.000000	0.000000	-1812.18	169
2	FID		ACIS-S-6	7.34	1253	1.000	0.033	0.046	0.016	0.024	0.000000	0.000000	400.56	814
3	GUIDE	used	931018016	8.47	2507	1.000	0.074	-0.052	0.062	0.100	109.684535	-31.226562	1437.84	583
4	GUIDE	used	931022960	8.95	2506	1.000	-0.004	-0.050	0.082	0.133	109.733092	-31.864448	-429.11	1928
5	GUIDE	used	931160352	8.63	2506	1.000	0.017	0.118	0.079	0.126	110.268138	-30.864891	1293.34	-1632
6	GUIDE	used	931163512	8.45	2507	1.000	-0.033	0.073	0.097	0.156	110.894384	-31.299941	-1146.44	-2109
7	GUIDE	used	931019296	8.67	2505	1.000	-0.047	-0.085	0.094	0.150	109.471771	-31.694370	550.45	2156

2.4 Star Slots

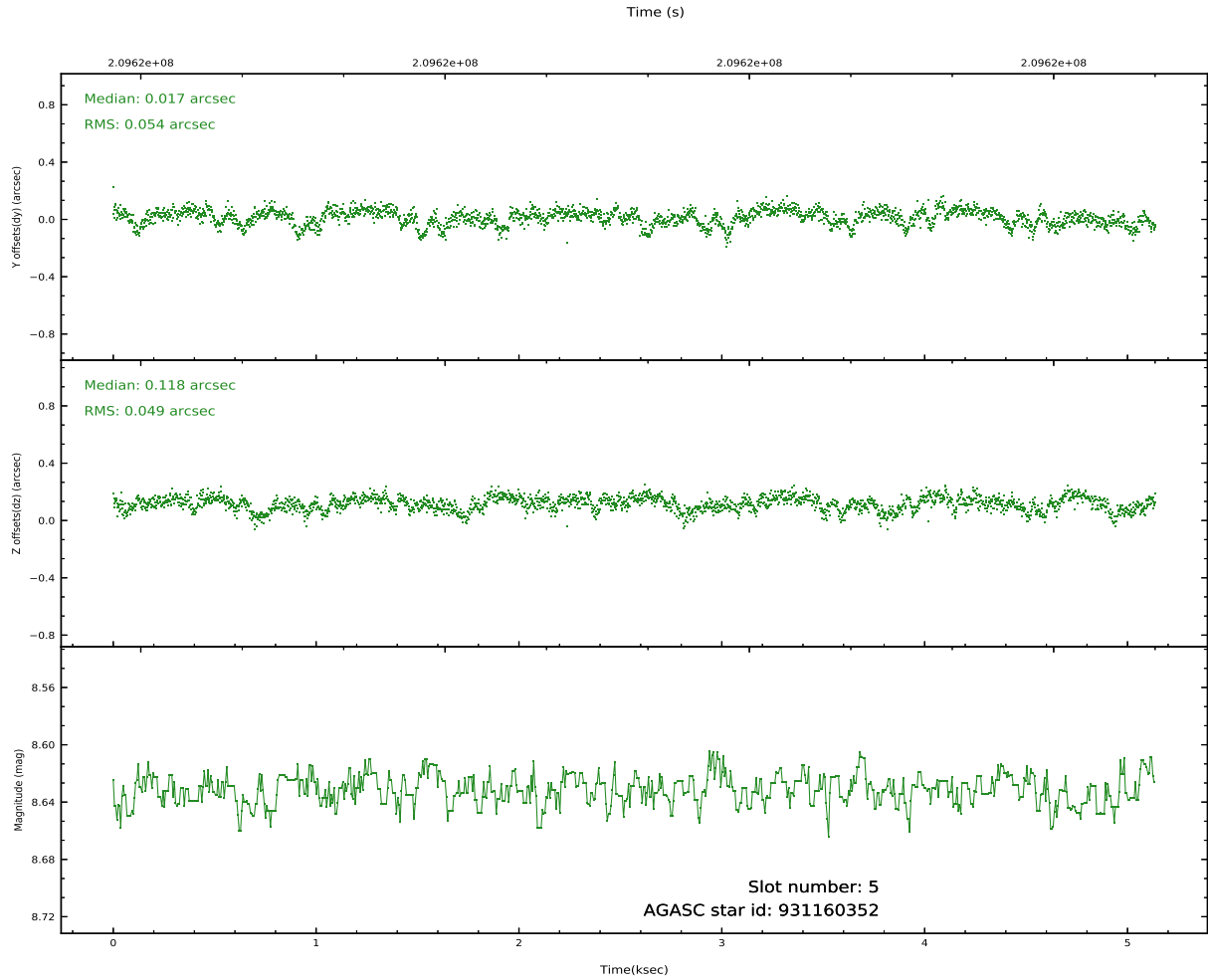
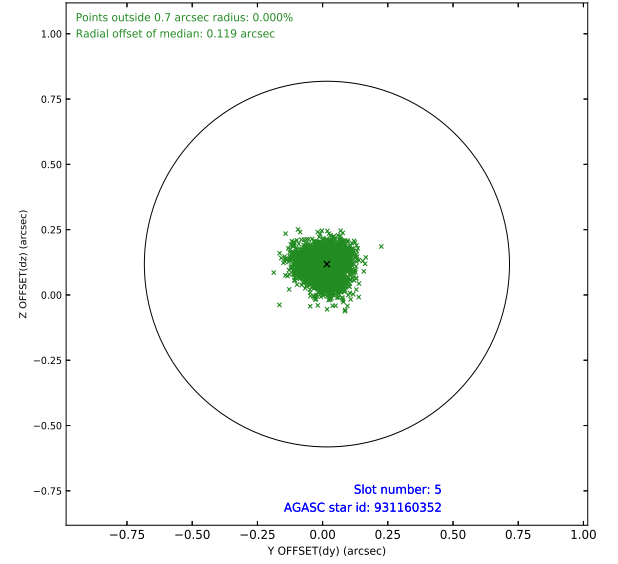
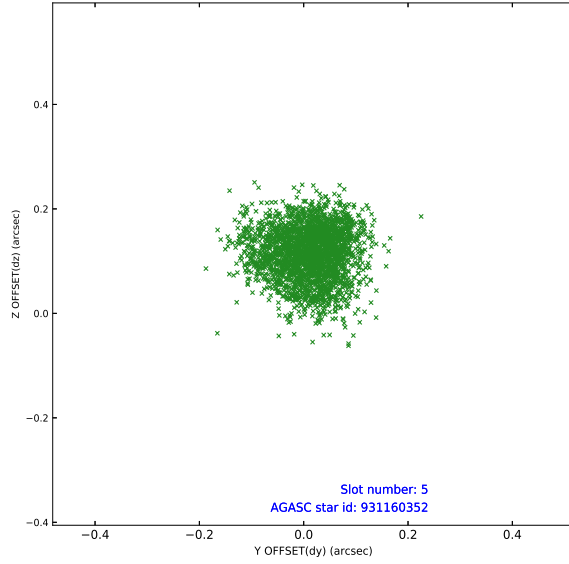
2.4.1 Slot 3



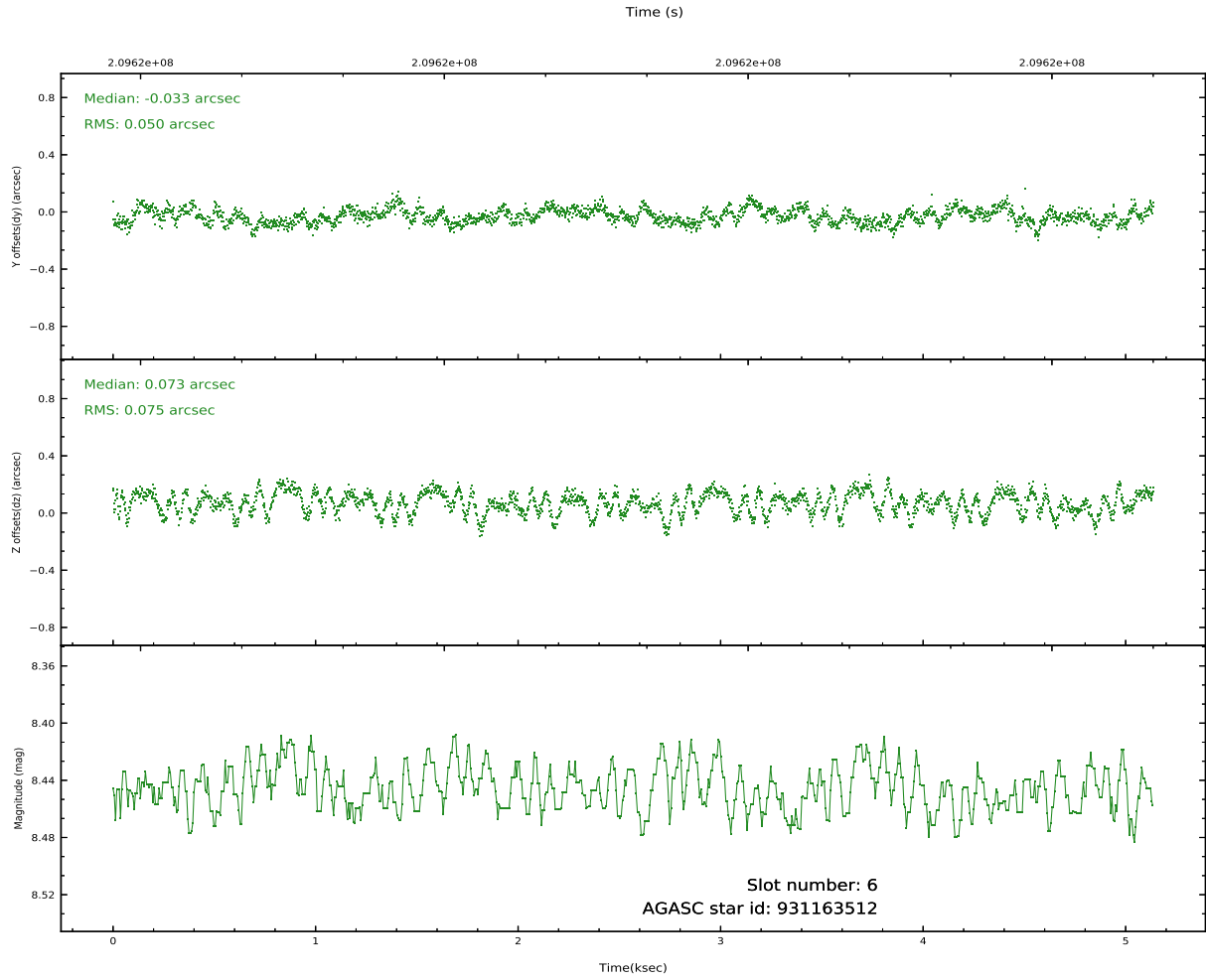
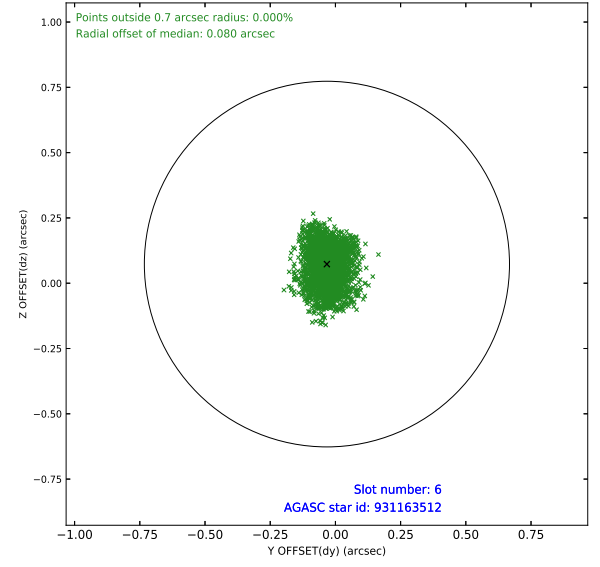
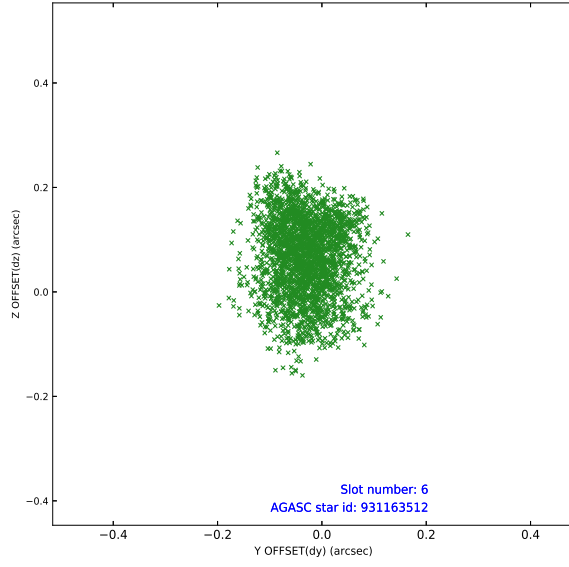
2.4.2 Slot 4



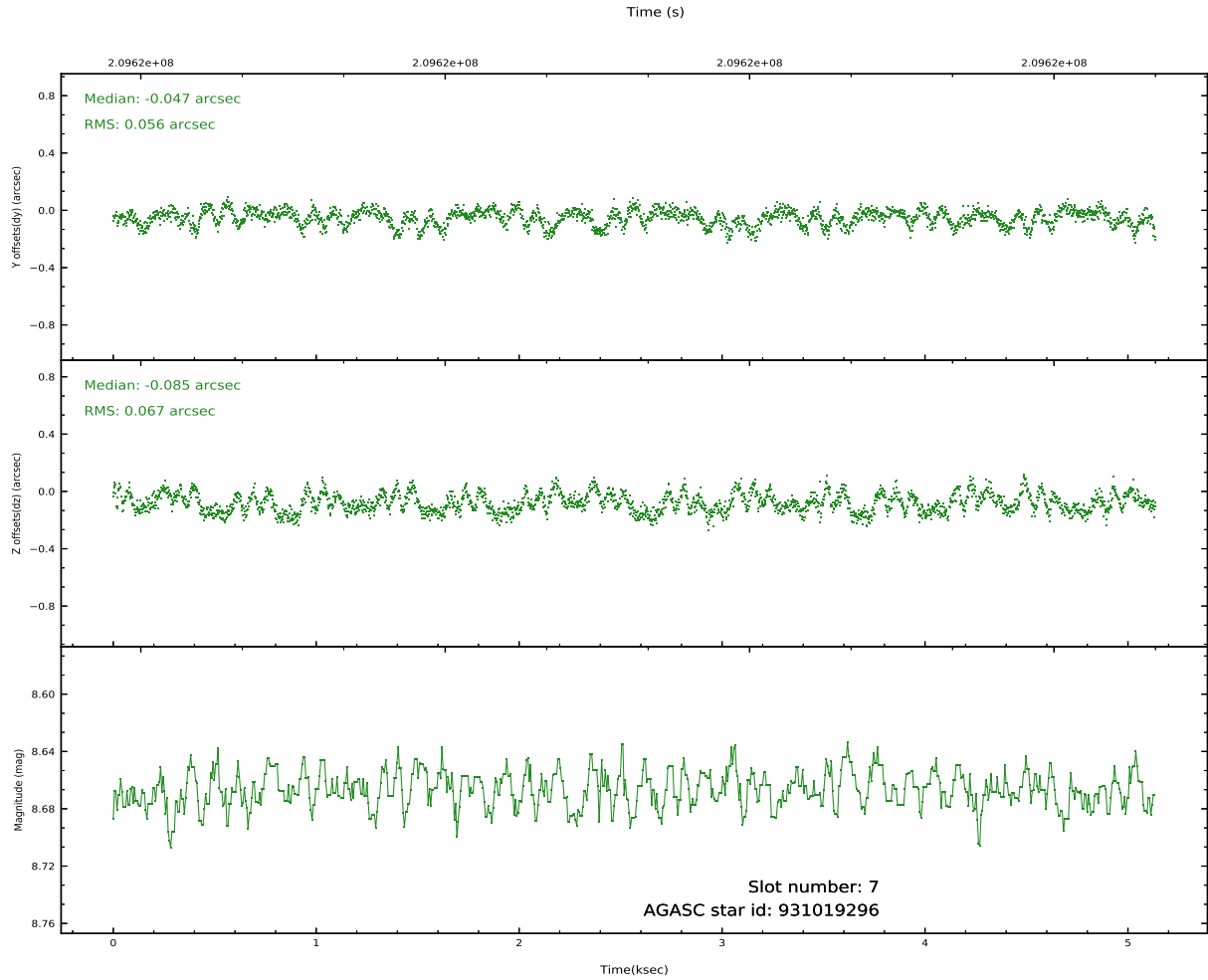
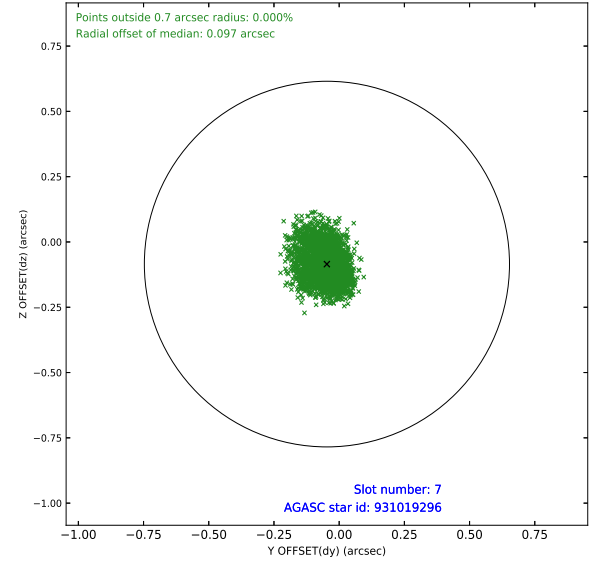
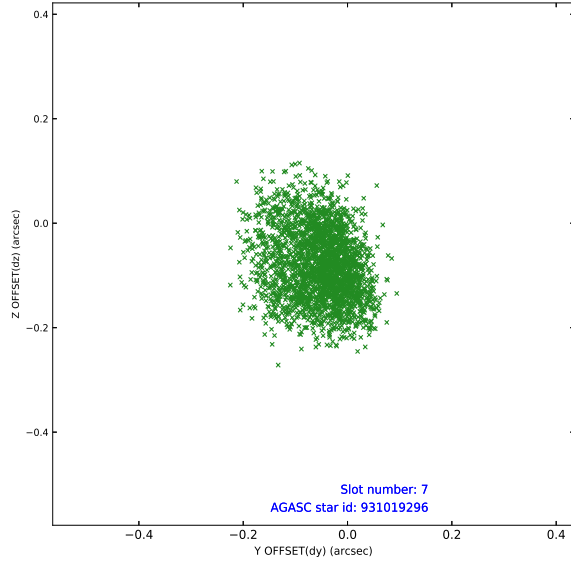
2.4.3 Slot 5



2.4.4 Slot 6

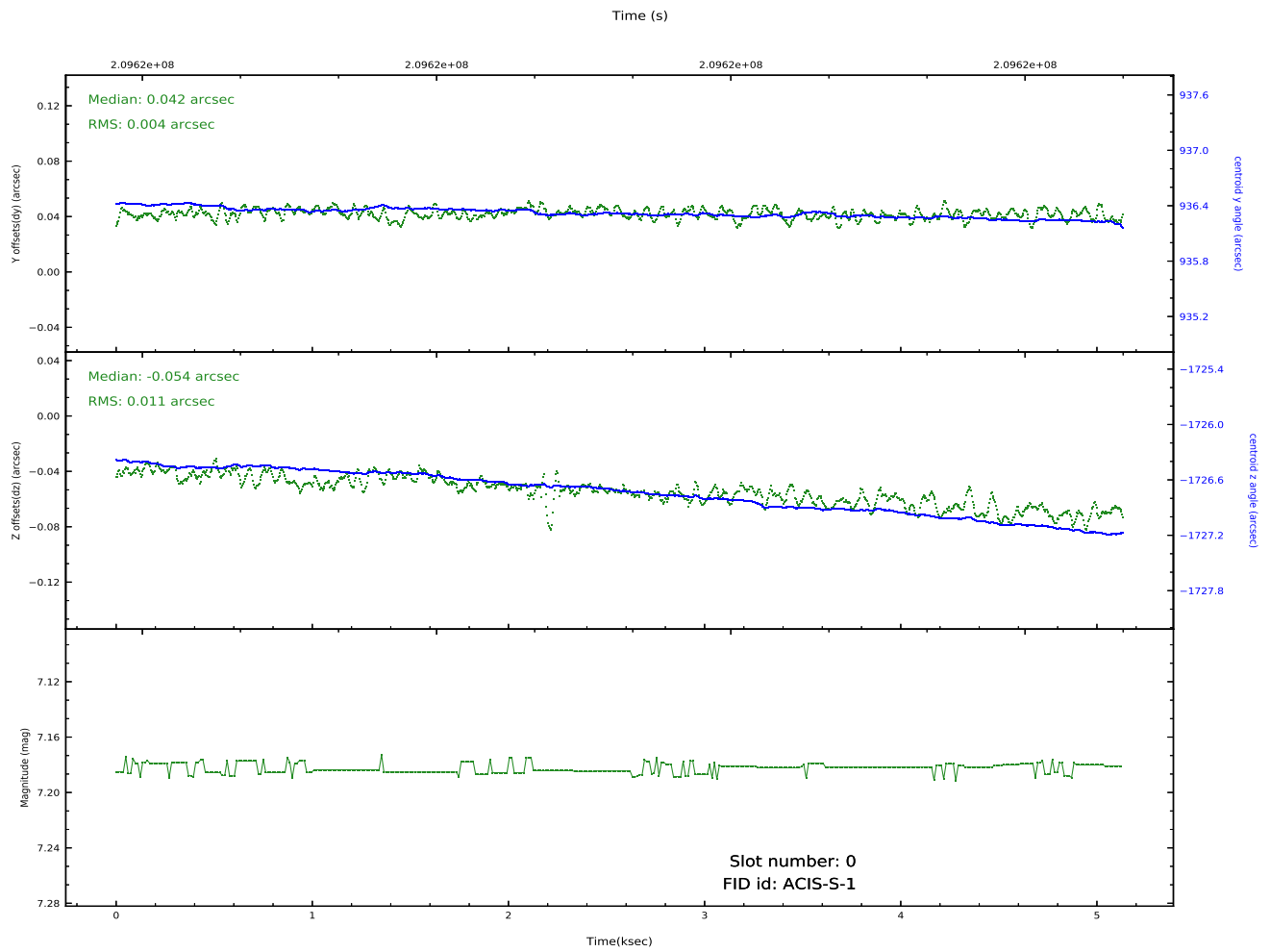
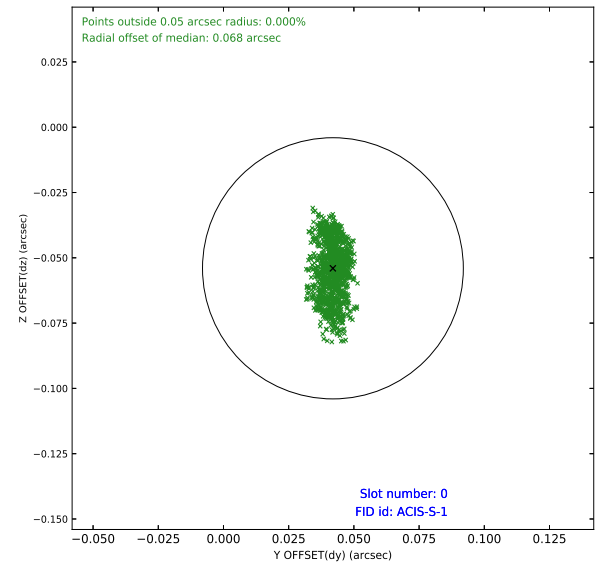
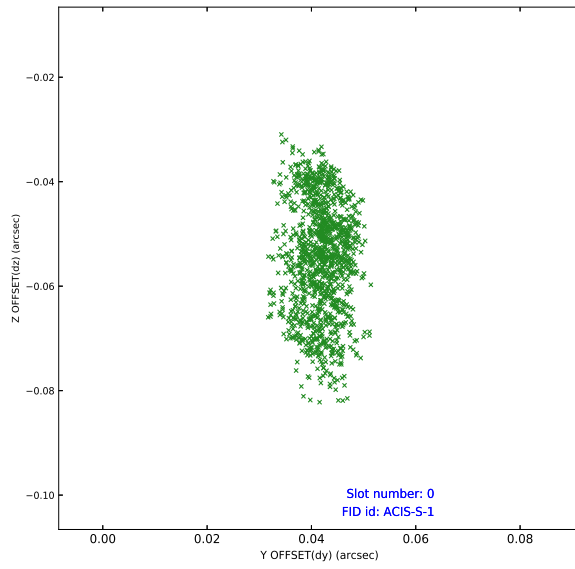


2.4.5 Slot 7

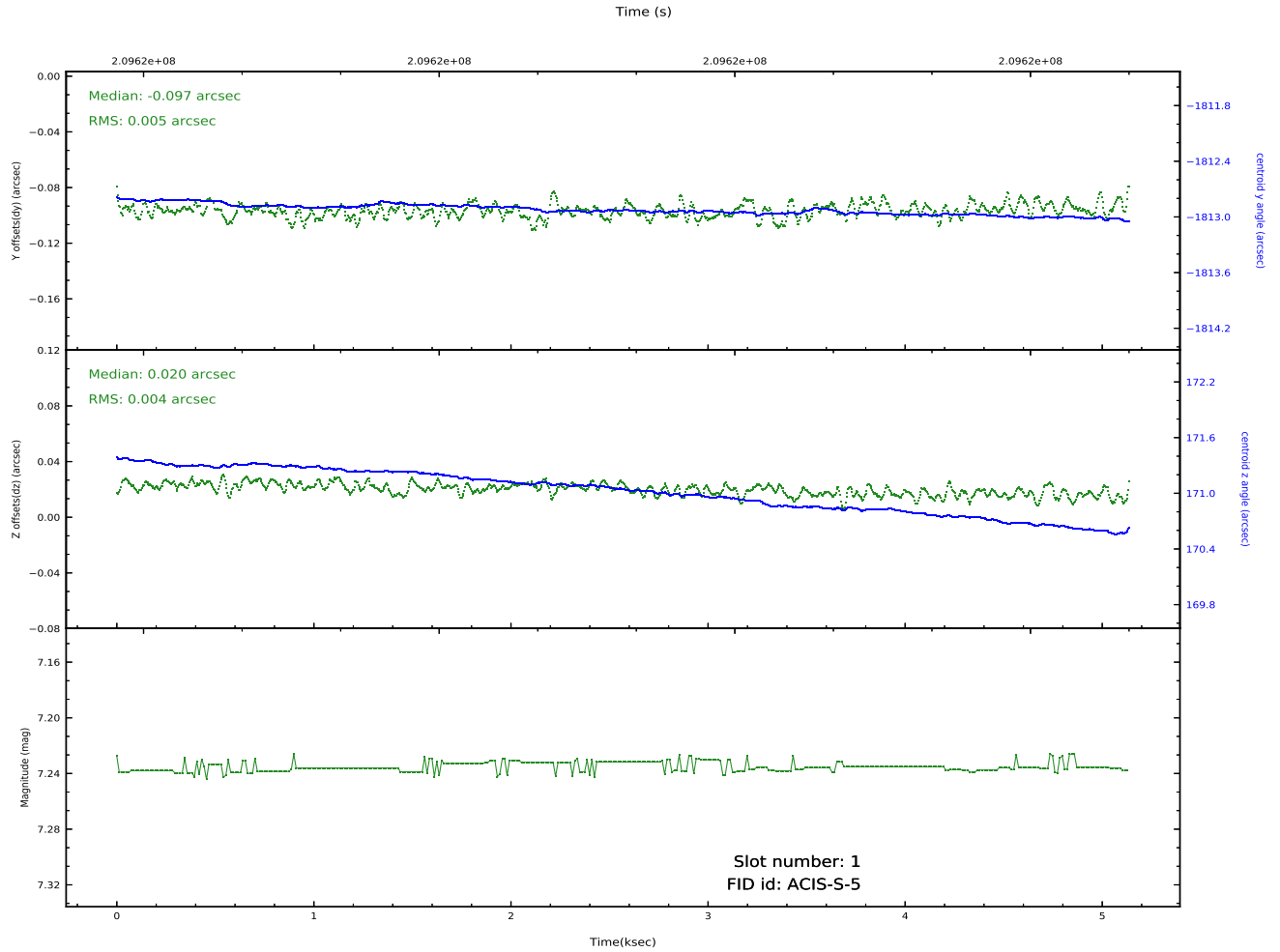
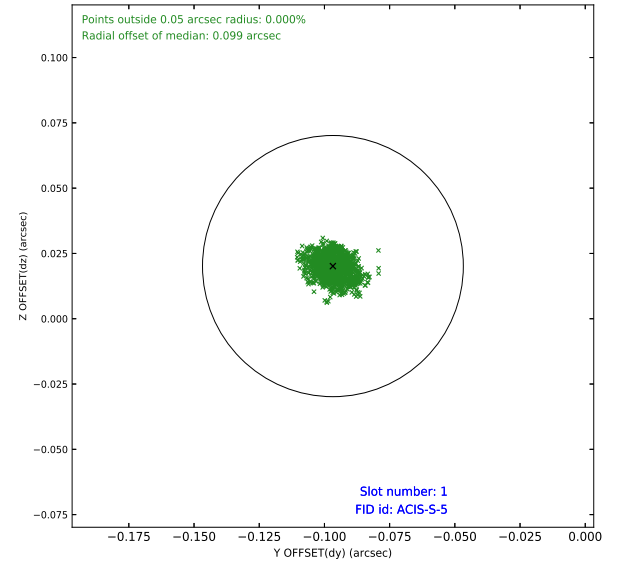
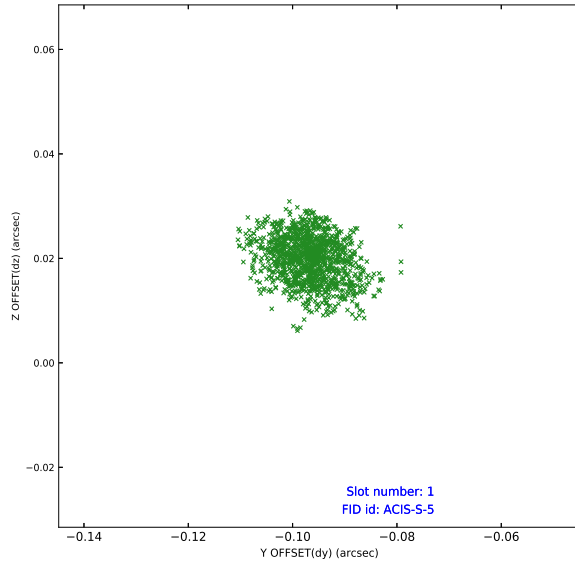


2.5 FID Slots

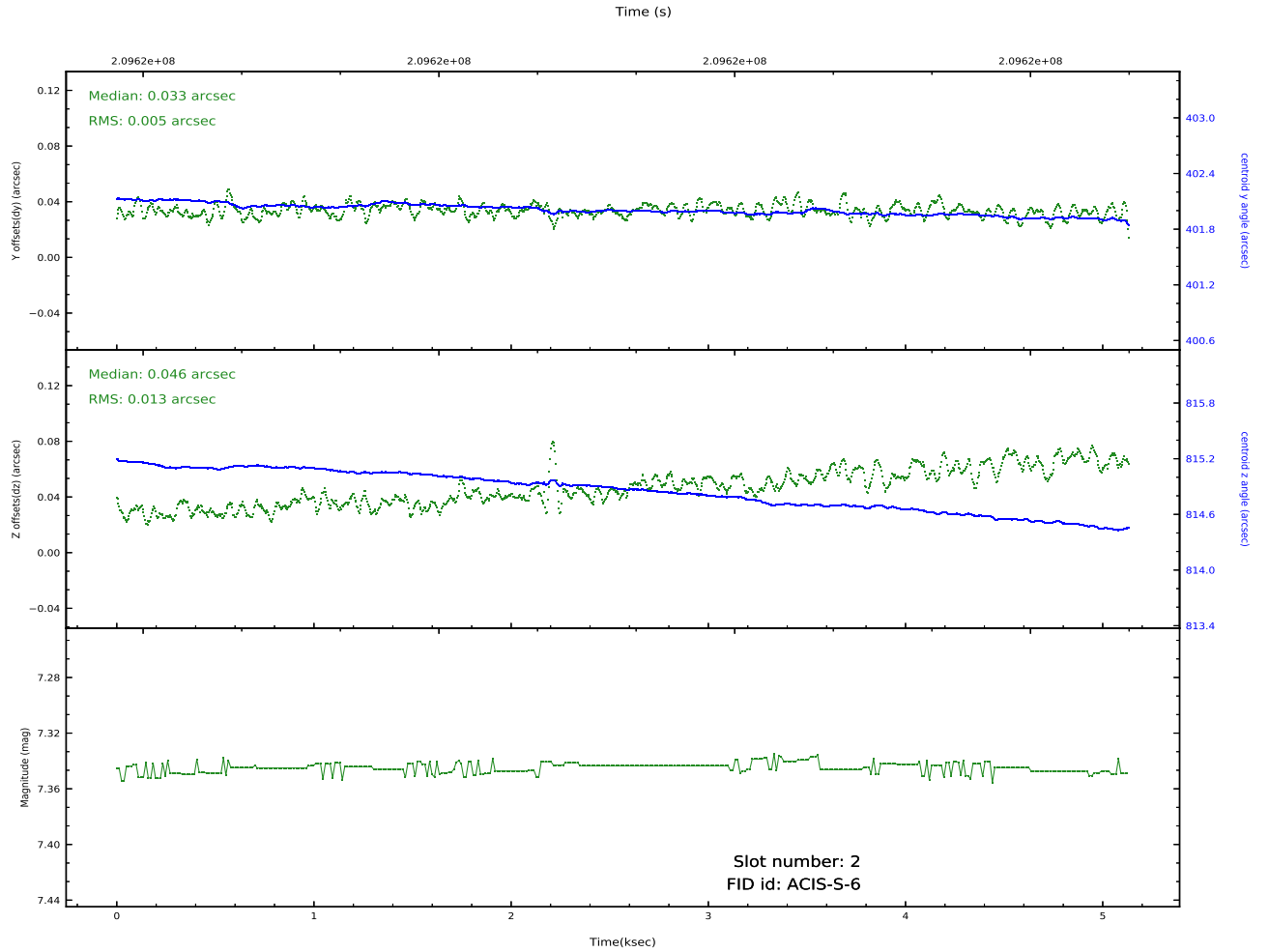
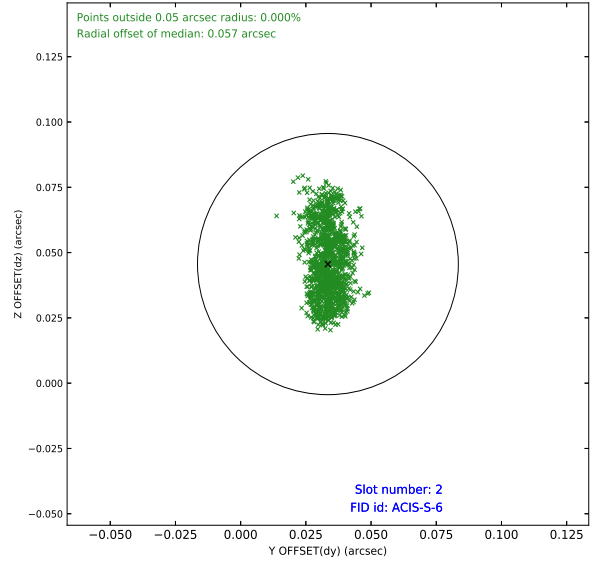
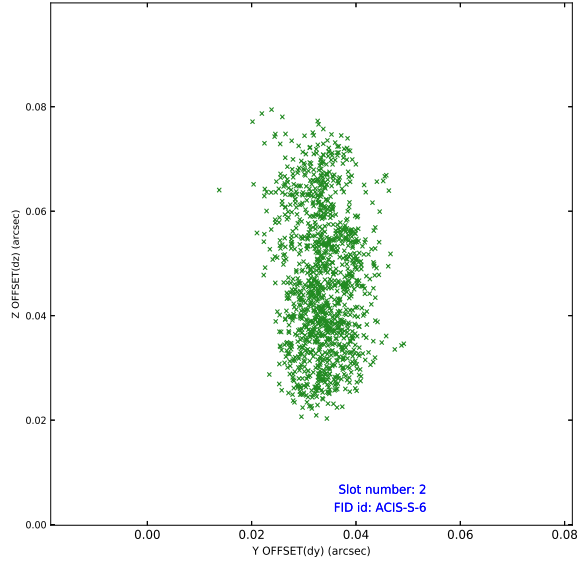
2.5.1 Slot 0



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)	2020.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.134

A.2 Comments