

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4670 - L2 Version 5
Chandra X-Ray Center

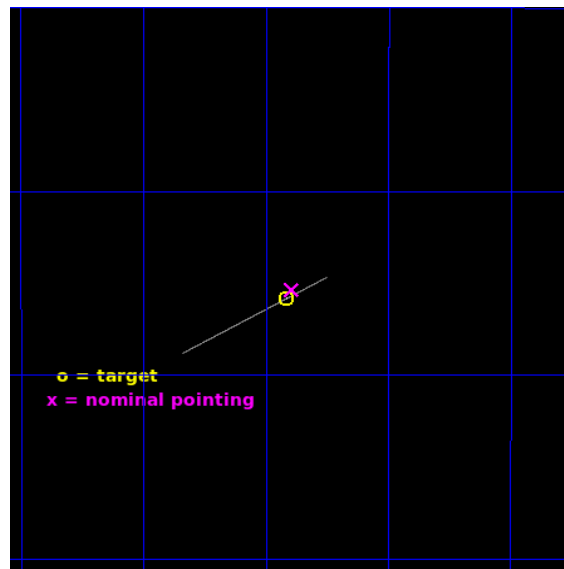
L2 Processing Date : Sep 28 2020

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1 Front

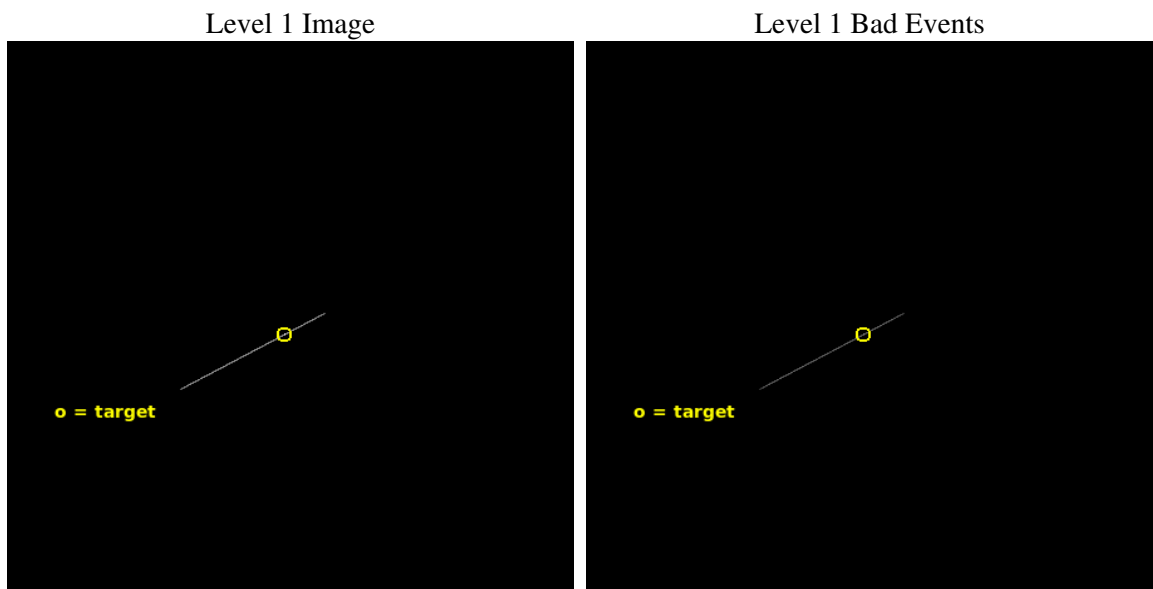
seq_num	500489	Sequence number
obs_id	4670	Observation id
title	Timing the Enigmatic Nearby Neutron Star RX J0720.4-3125	Proposal
observer	Prof. David Kaplan	Principal investigator
object	RX J0720.4-3125	Source name
ra_targ	110.104167	Observer's specified target RA [deg]
dec_targ	-31.430444	Observer's specified target Dec [deg]
ra_nom	110.09836423964	Nominal RA [deg]
dec_nom	-31.422814039386	Nominal Dec [deg]
roll_nom	151.21622848753	Nominal Roll [deg]
revision	5	Processing version of data
ontime	10130.25	Sum of GTIs [s]
livetime	10090.678710938	Livetime [s]
ontime7	10130.25	Sum of GTIs [s]
l2events	54675	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	2	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10130.25	Sum of GTIs [s]
caldbver	4.9.2	 	ontime7	10130.25	Sum of GTIs [s]
date	2020-09-28T06:17:19	Date and time of file creation	l1events	69259	Number of level 1 events
revision	5	Processing version of data			

2.1.4 Events

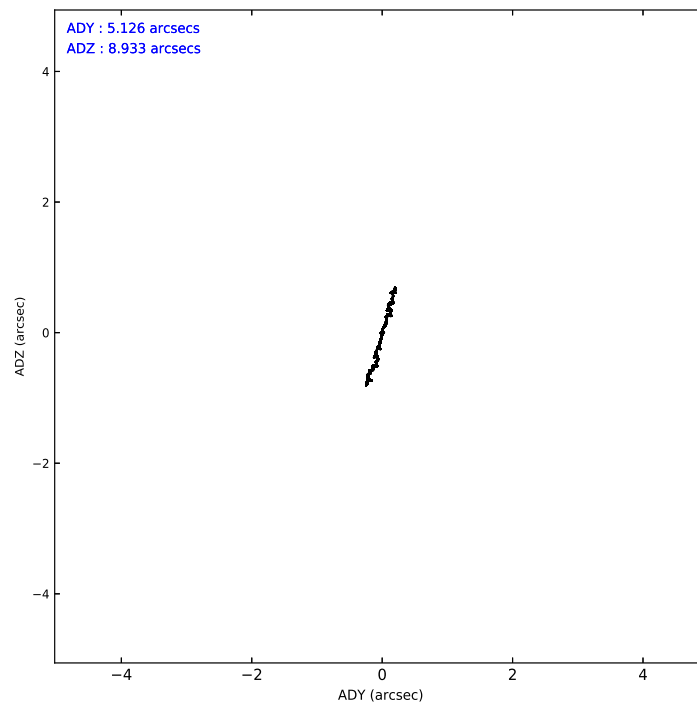
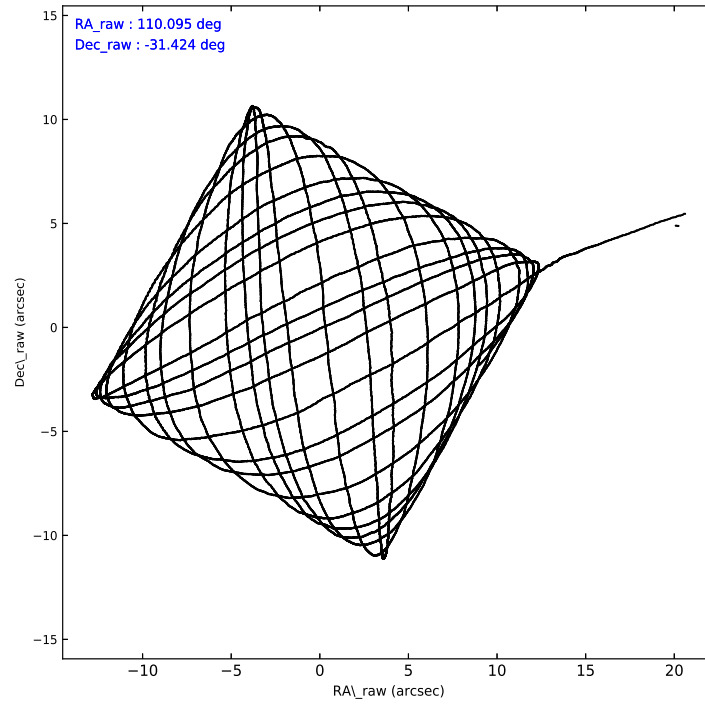
	ccd 7
level 1 events	69259
rejected events	12862
rejected %	18%

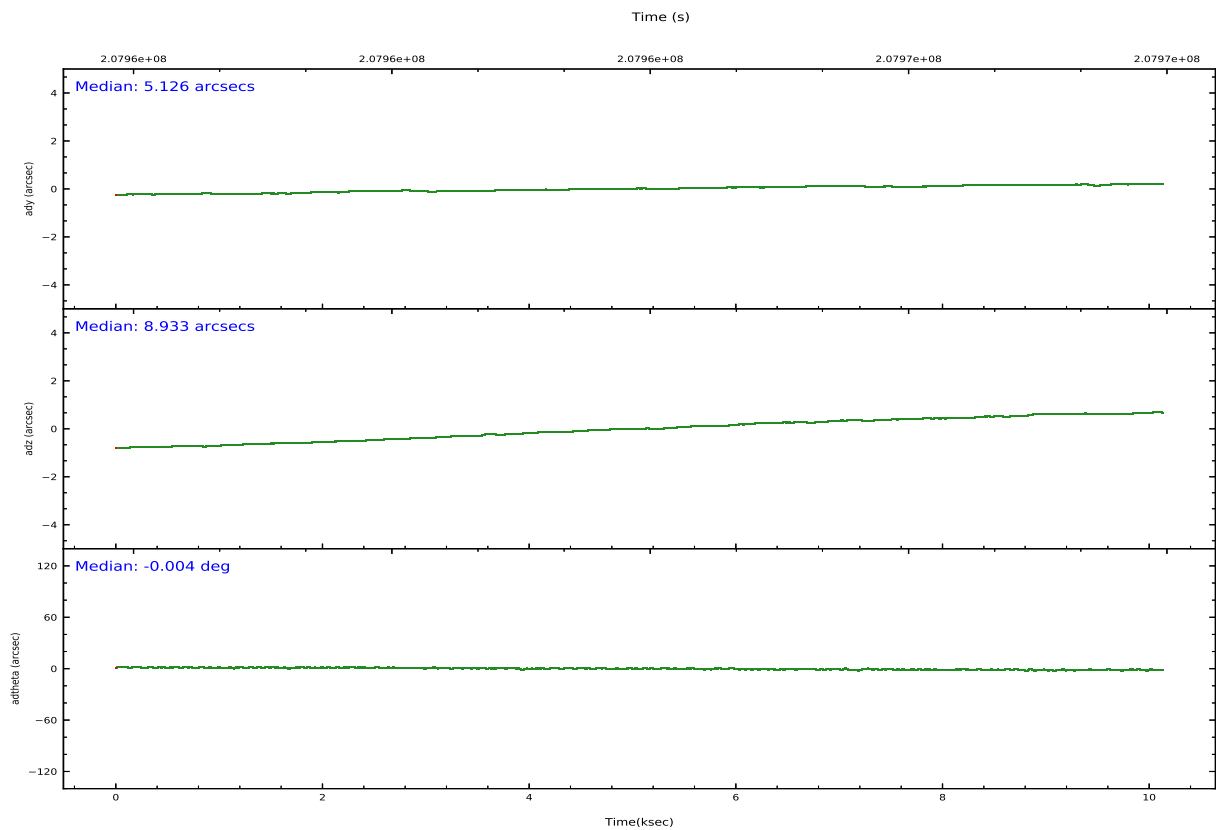
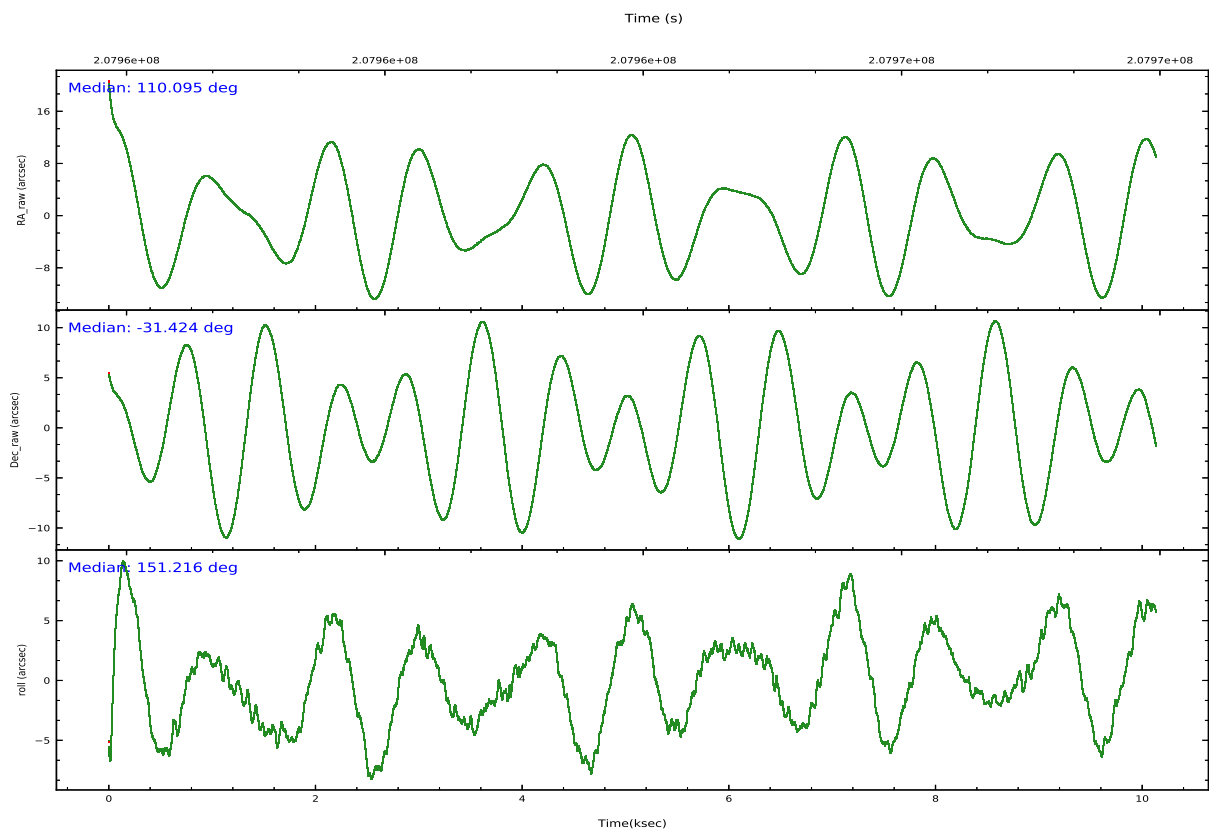
	ccd 7
grade 0 events	14996
	21%
grade 1 events	167
	0%
grade 2 events	14025
	20%
grade 3 events	4627
	6%
grade 4 events	4563
	6%
grade 5 events	8655
	12%
grade 6 events	22226
	32%
grade 7 events	0
	0%

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	110.127237	110.09836423964	Subarray requested	NONE	NONE
[deg] Pointing Dec	-31.423417	-31.422814039386	Alternating exposures requested	N	N
[deg] Pointing Roll	151.079569	151.21622848753	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	207959963.184000	207958788.34412			
Observation start date	2004-08-03T22:38:19	2004-08-03T22:19:48			
[s] Observation end time (MET)	207969963.184000	207970834.14465			
Observation end date	2004-08-04T01:24:59	2004-08-04T01:40:34			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



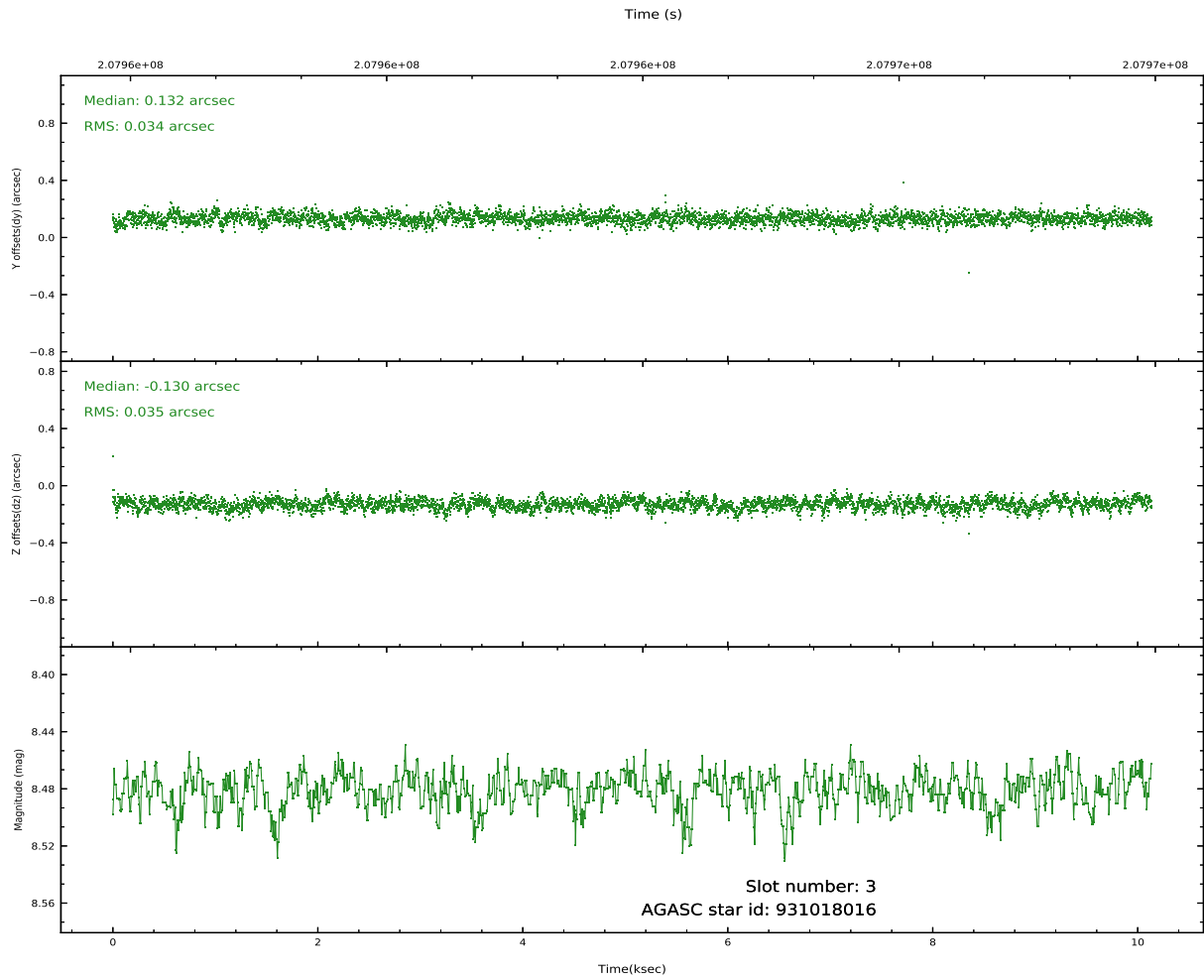
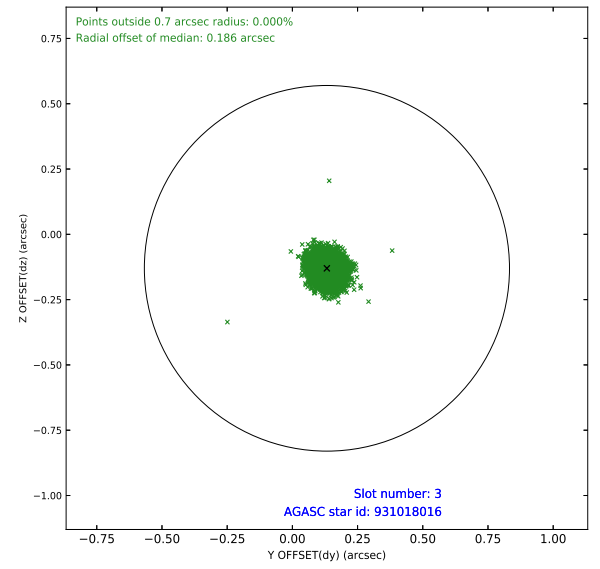
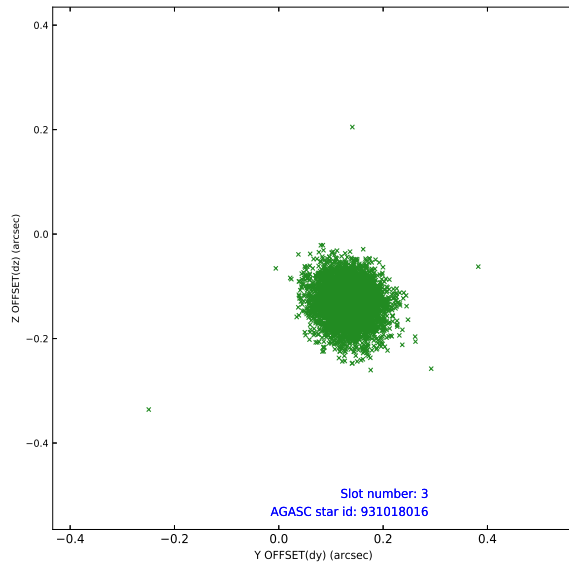


Slot Statistics

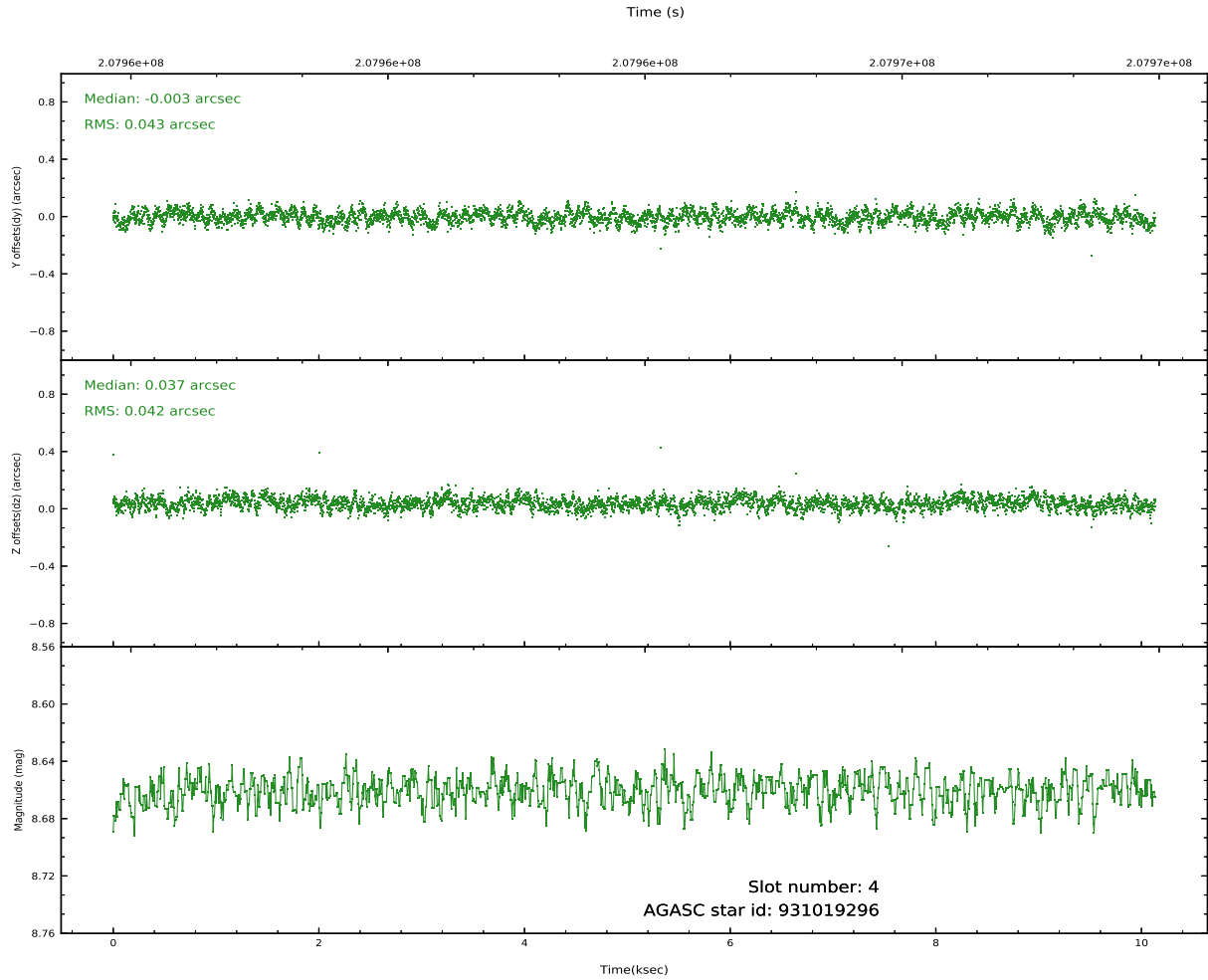
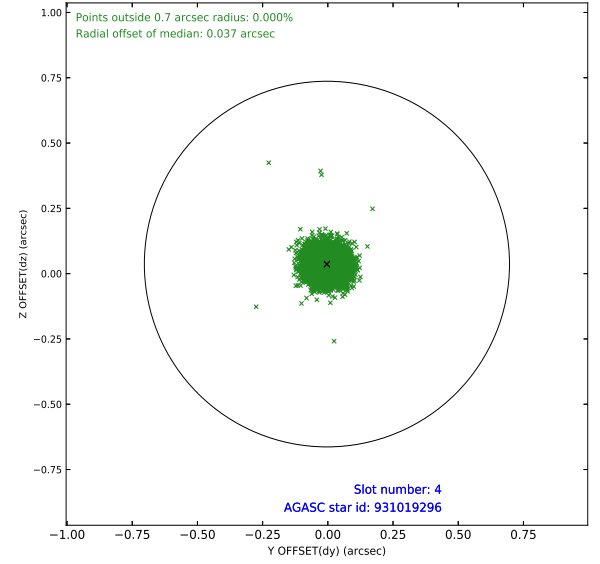
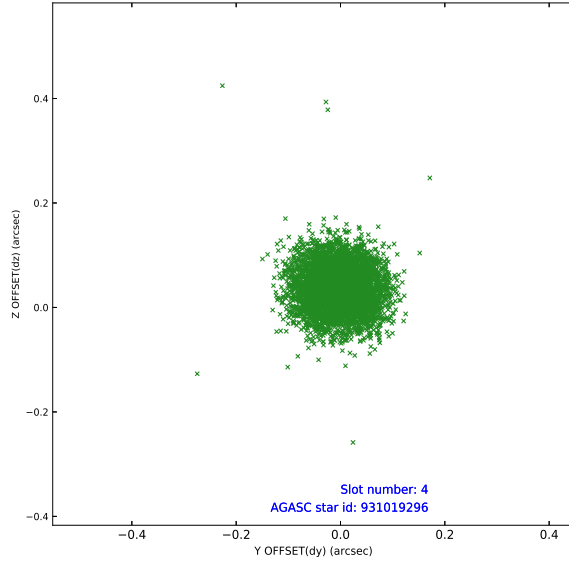
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2473	1.000	-0.127	-0.097	0.010	0.017	0.000000	0.000000	-757.96	-1730
1	FID		ACIS-S-4	7.20	2473	1.000	0.087	0.077	0.008	0.013	0.000000	0.000000	2155.30	177
2	FID		ACIS-S-6	7.35	2473	1.000	0.013	0.027	0.009	0.015	0.000000	0.000000	404.85	815
3	GUIDE	used	931018016	8.48	4944	1.000	0.132	-0.130	0.052	0.085	109.684535	-31.226562	1534.62	41
4	GUIDE	used	931019296	8.66	4942	1.000	-0.003	0.037	0.063	0.101	109.471771	-31.694370	1283.08	1830
5	GUIDE	used	931160352	8.63	4943	1.000	0.009	0.066	0.063	0.102	110.268138	-30.864891	591.98	-1969
6	GUIDE	used	931163512	8.44	4945	1.000	-0.044	0.017	0.075	0.116	110.894384	-31.299941	-1854.04	-1523
7	GUIDE	used	931022960	8.94	4942	1.000	-0.098	0.008	0.089	0.140	109.733092	-31.864448	285.50	1974

2.4 Star Slots

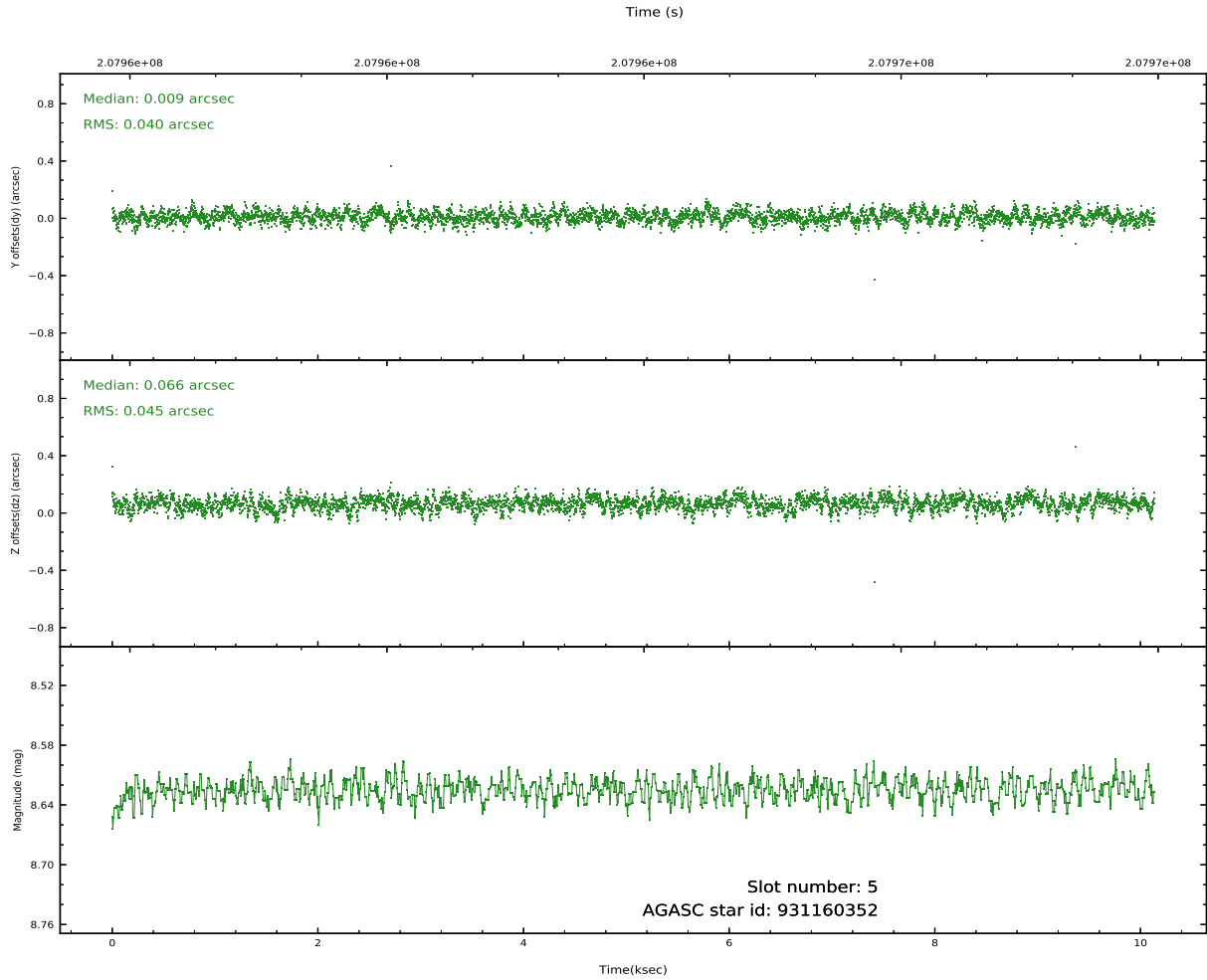
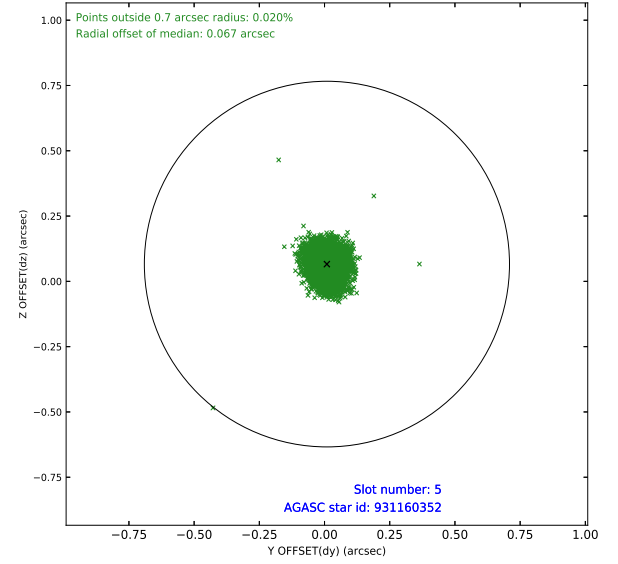
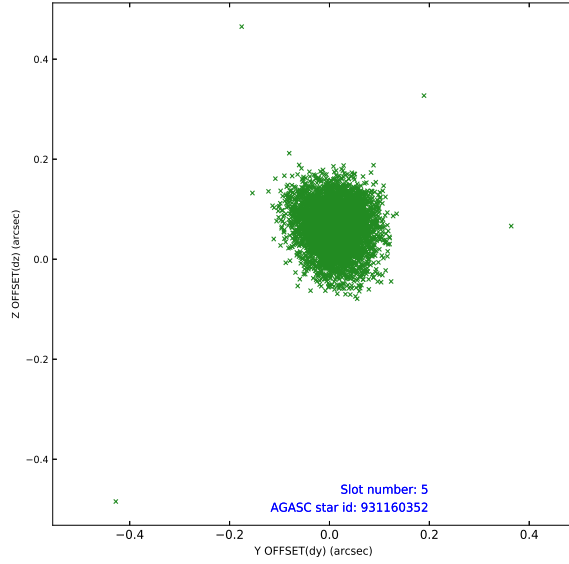
2.4.1 Slot 3



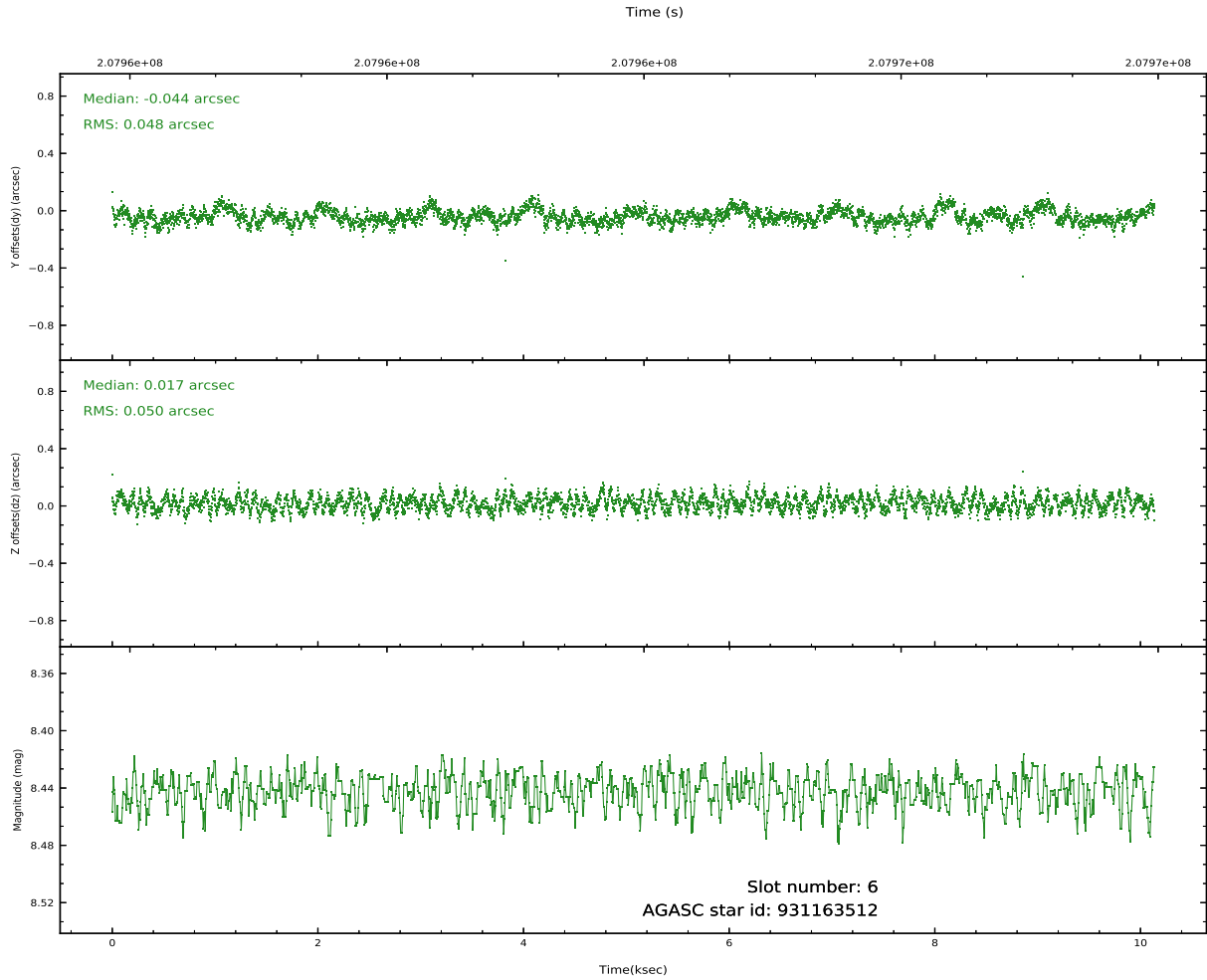
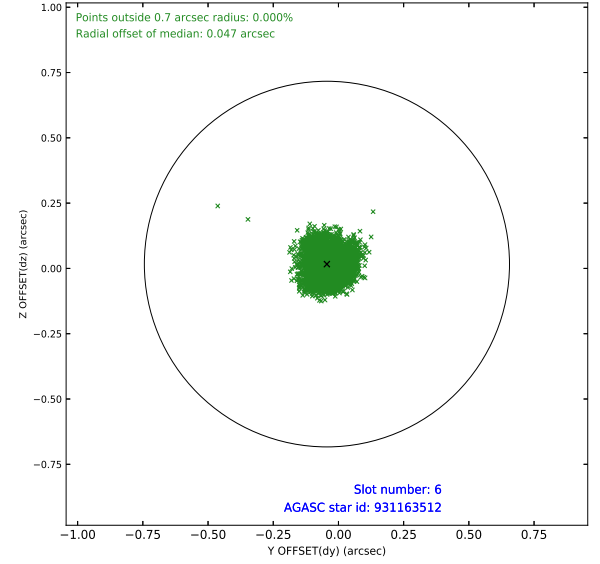
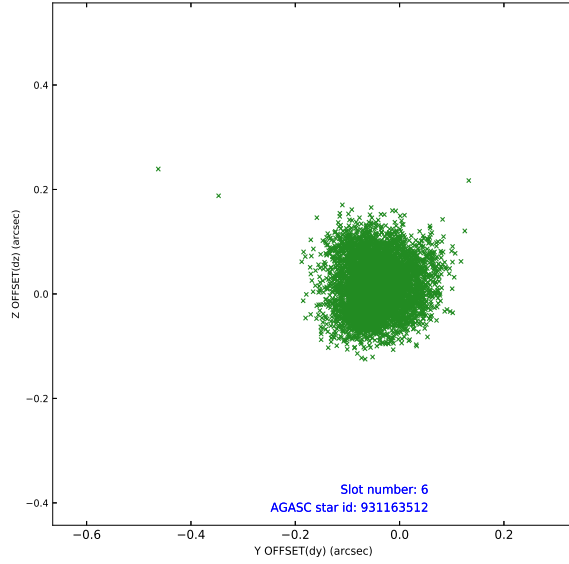
2.4.2 Slot 4



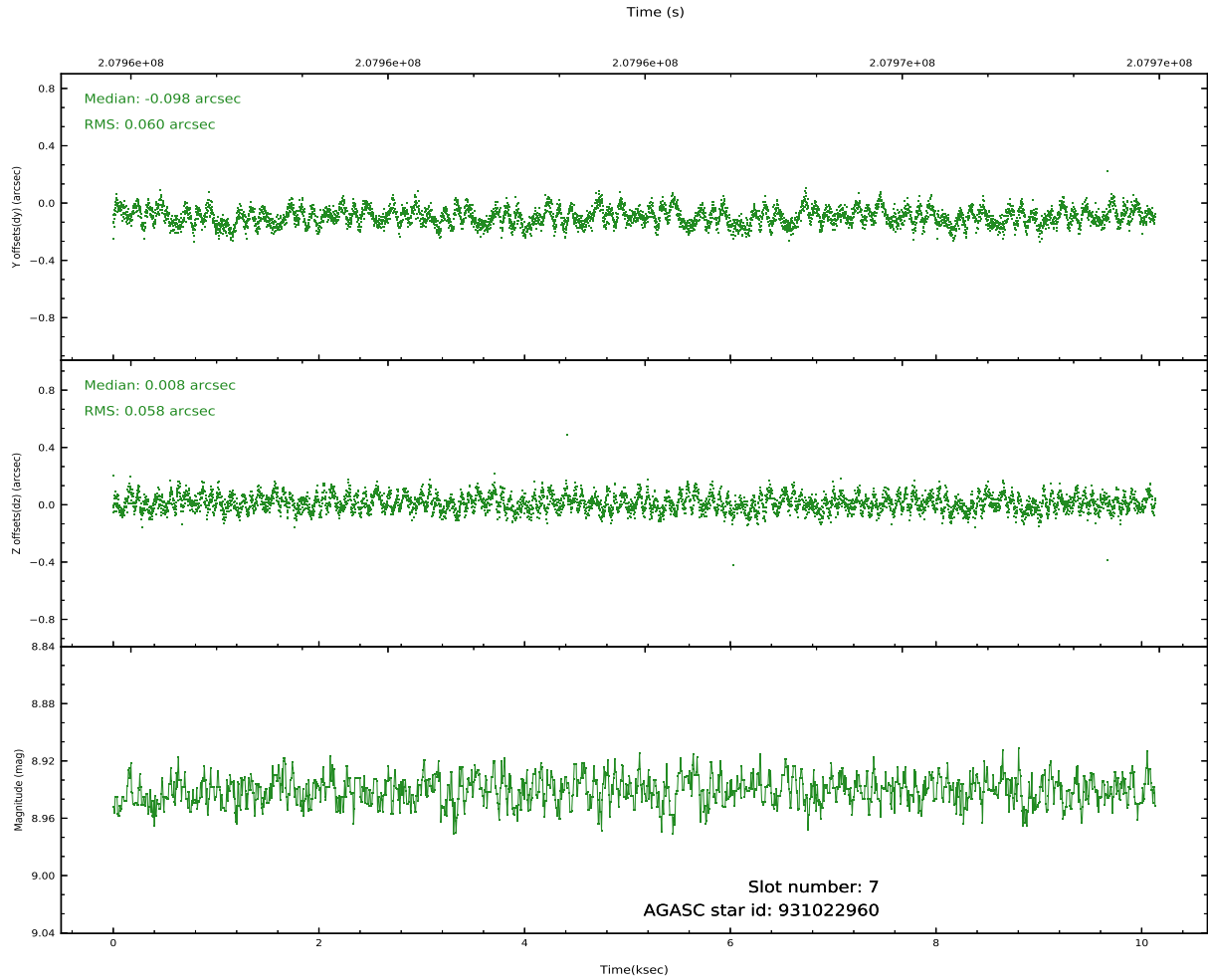
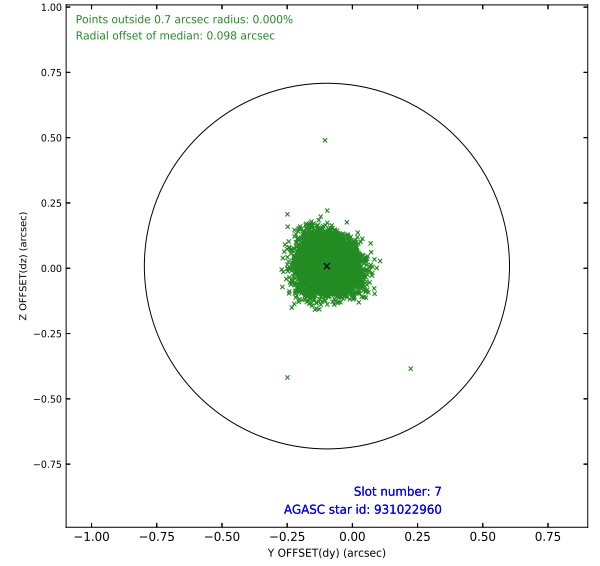
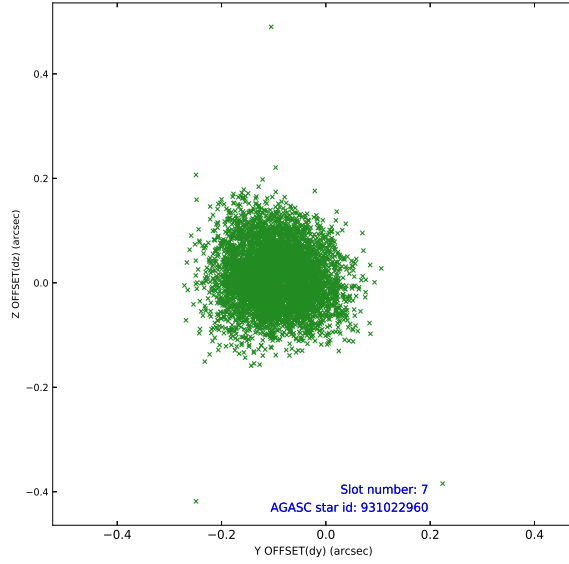
2.4.3 Slot 5



2.4.4 Slot 6

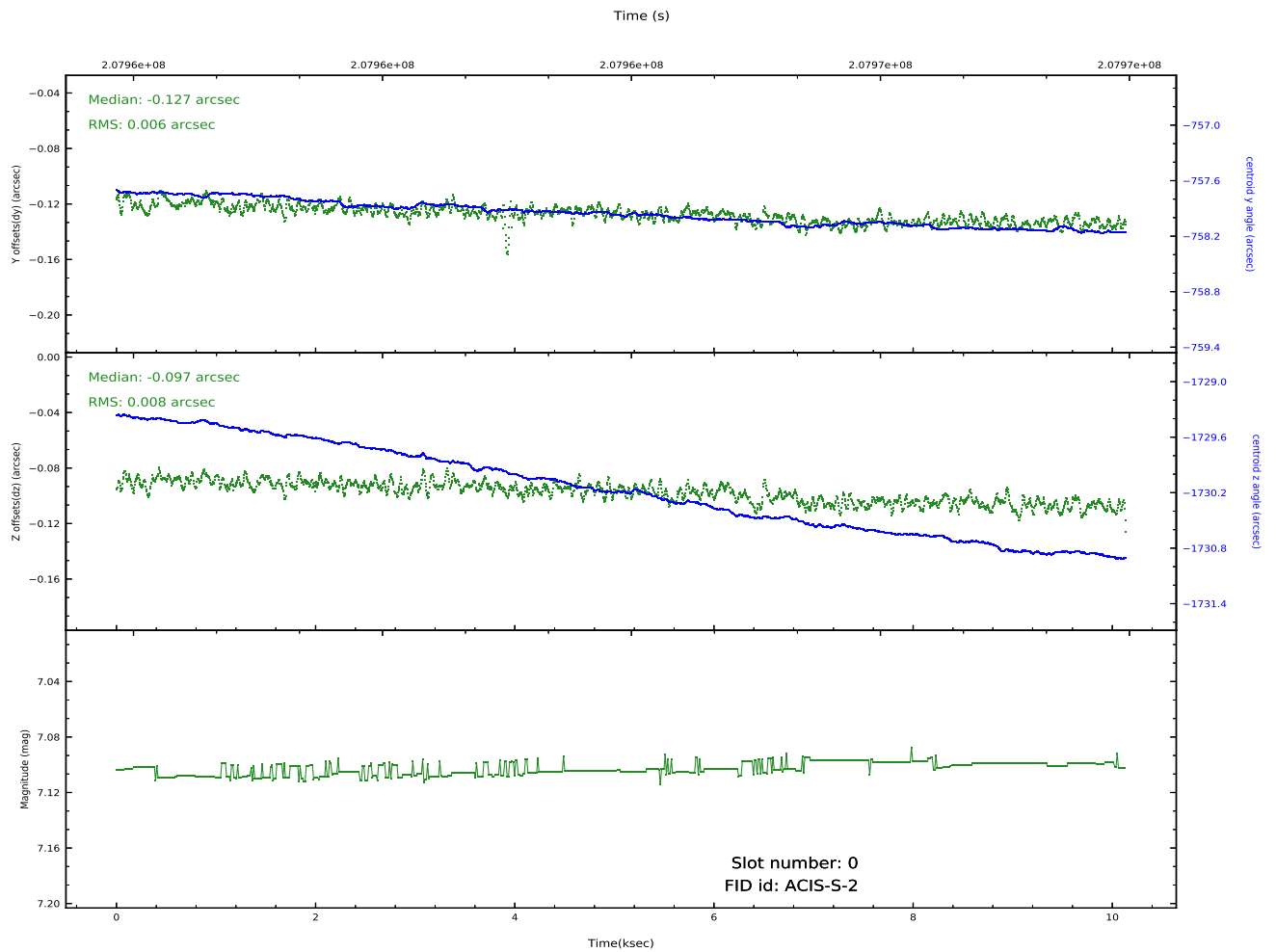
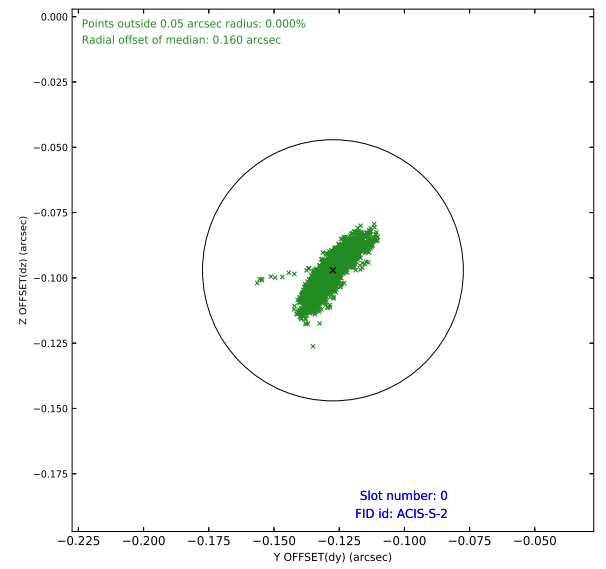
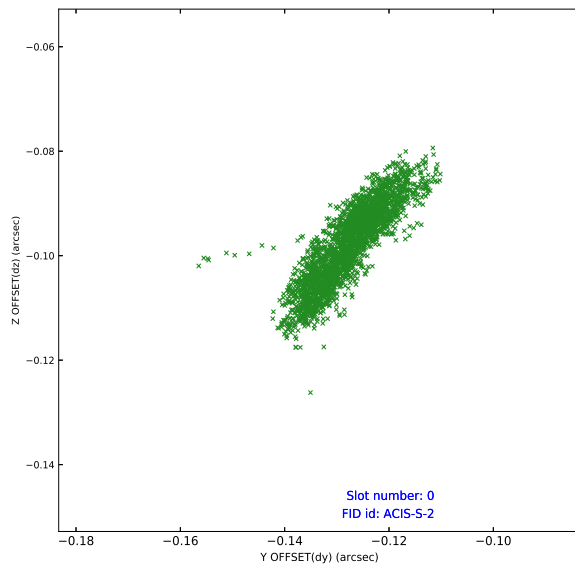


2.4.5 Slot 7

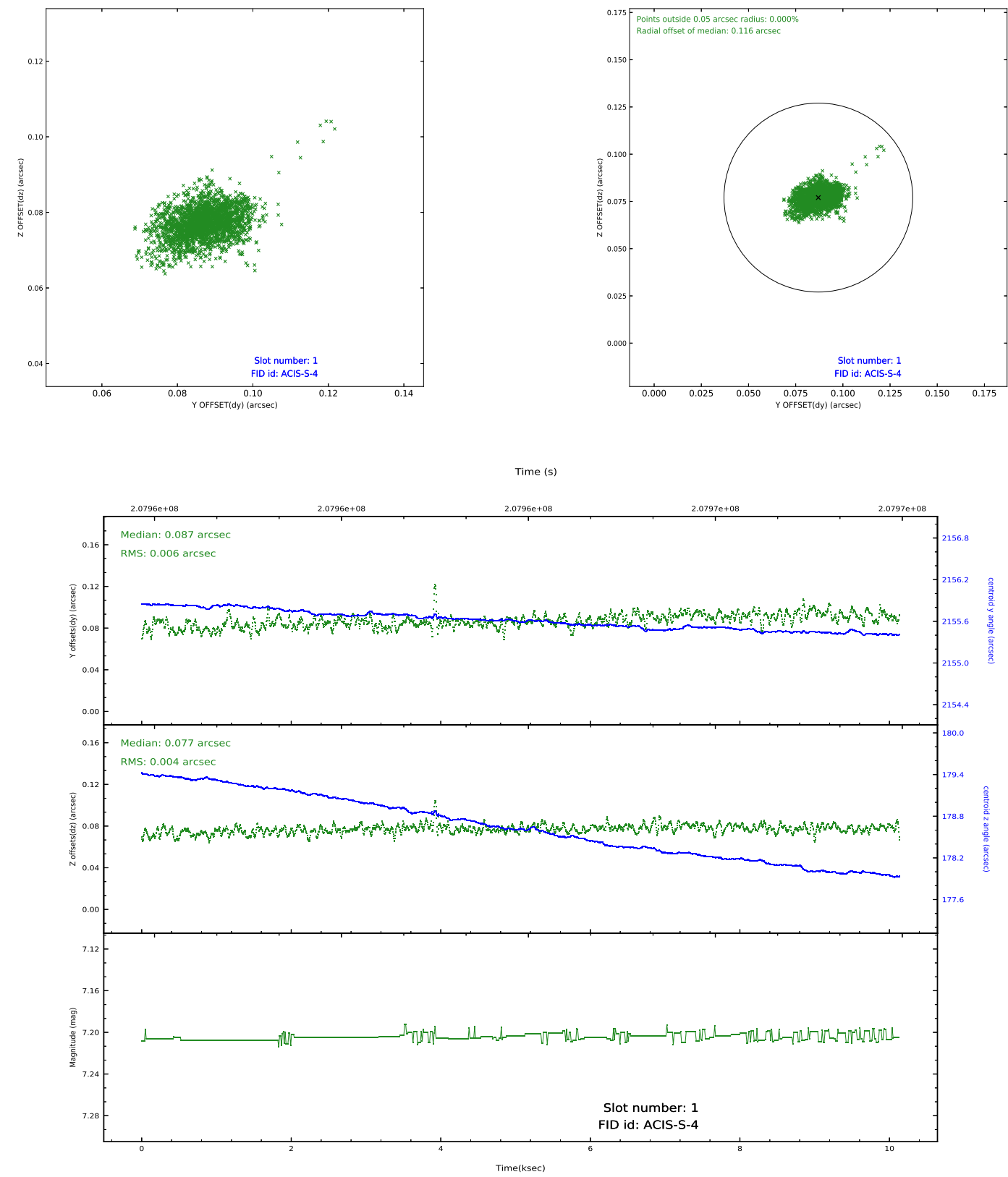


2.5 FID Slots

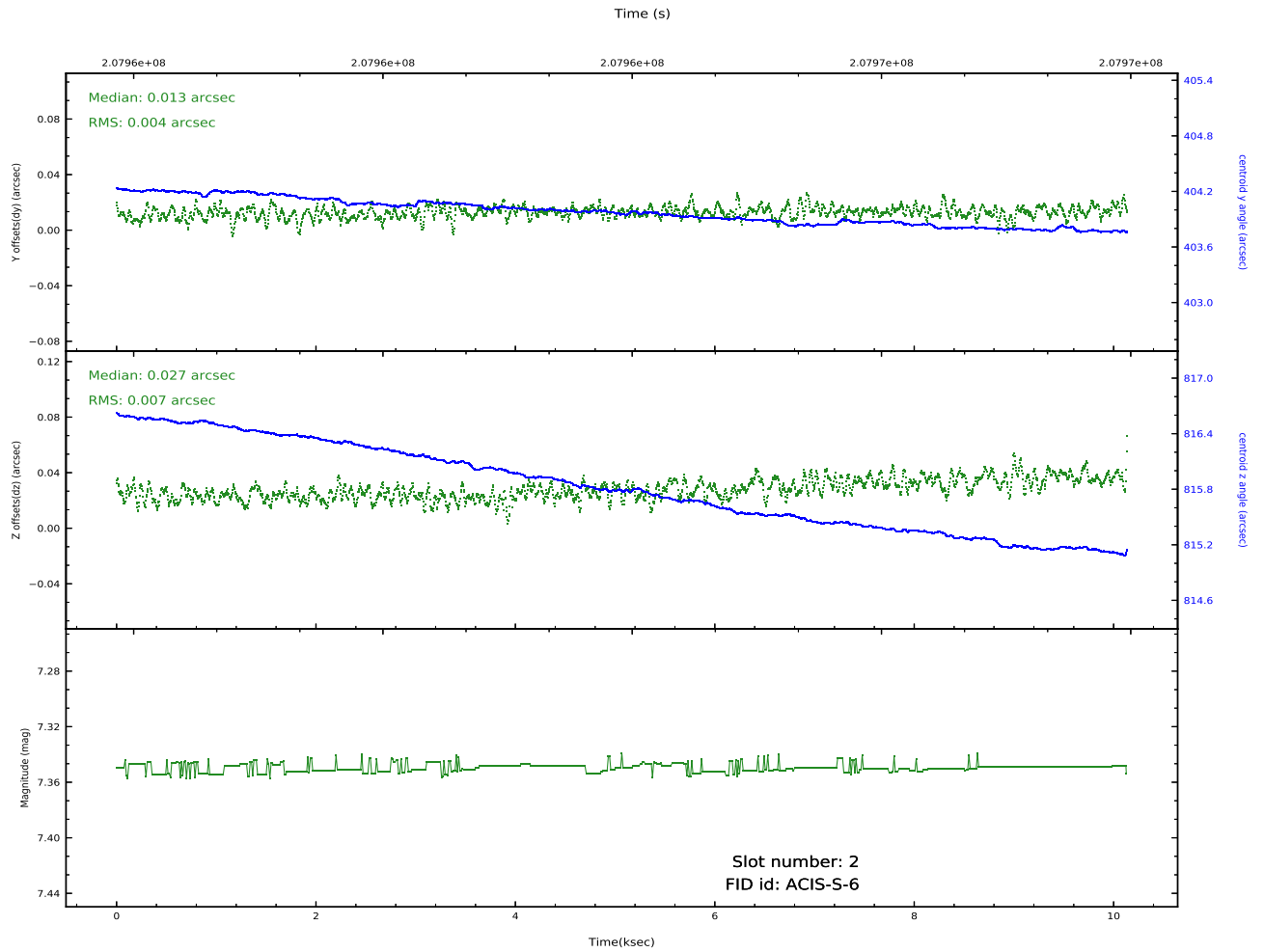
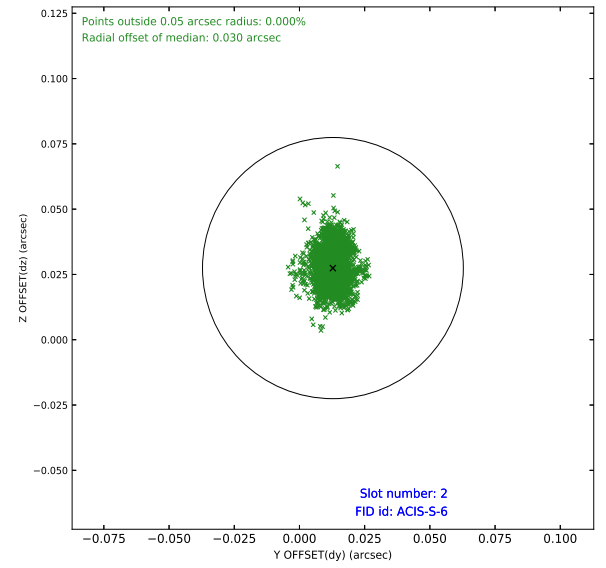
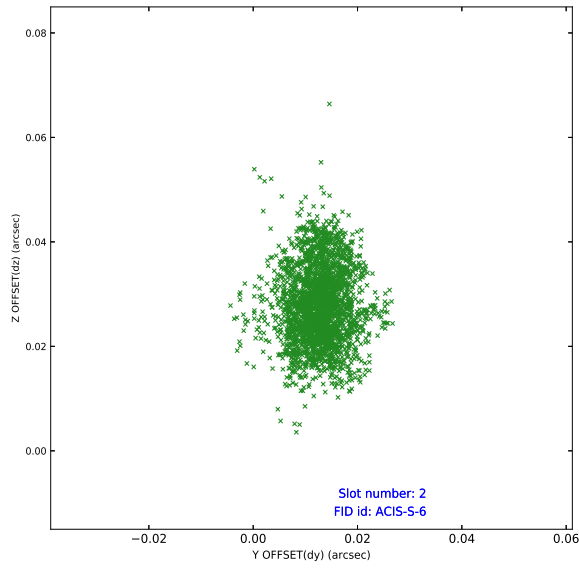
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Principe
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.133

A.2 Comments