

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4671 - L2 Version 5
Chandra X-Ray Center

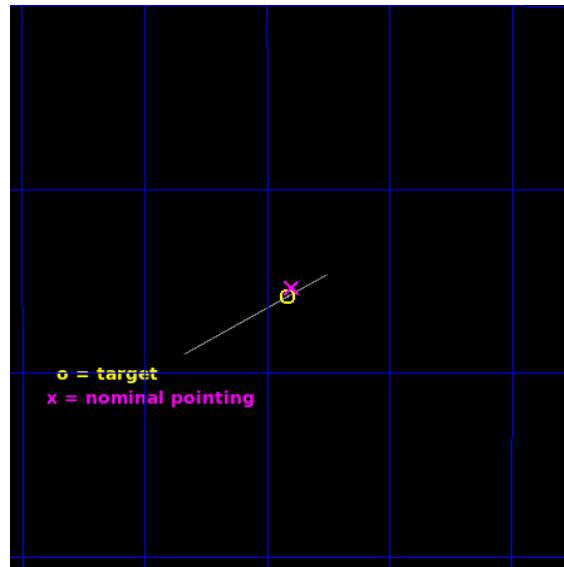
L2 Processing Date : Sep 28 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

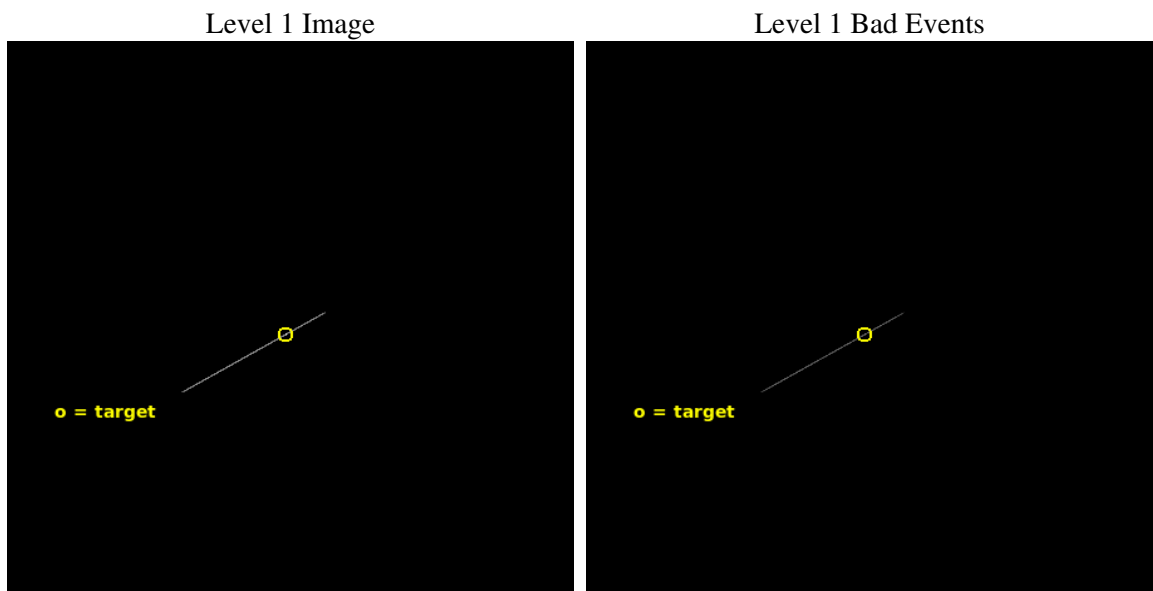
seq_num	500490	Sequence number
obs_id	4671	Observation id
title	Timing the Enigmatic Nearby Neutron Star RX J0720.4-3125	Proposal
observer	Prof. David Kaplan	Principal investigator
object	RX J0720.4-3125	Source name
ra_targ	110.104167	Observer's specified target RA [deg]
dec_targ	-31.430444	Observer's specified target Dec [deg]
ra_nom	110.09942329582	Nominal RA [deg]
dec_nom	-31.422841173862	Nominal Dec [deg]
roll_nom	149.79611891349	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5143.25	Sum of GTIs [s]
livetime	5123.1591796875	Livetime [s]
ontime7	5143.25	Sum of GTIs [s]
l2events	27390	Number of level 2 events



2 OBI

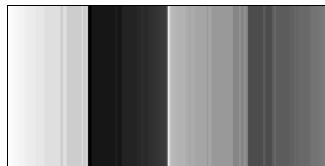
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5143.25	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	5143.25	Sum of GTIs [s]
date	2020-09-28T06:01:49	Date and time of file creation	l1events	39966	Number of level 1 events
revision	5	Processing version of data			

2.1.4 Events

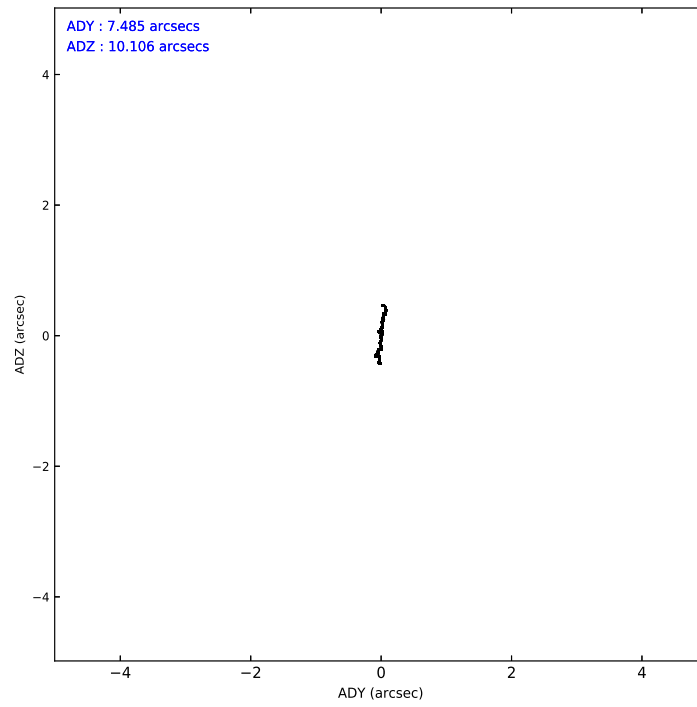
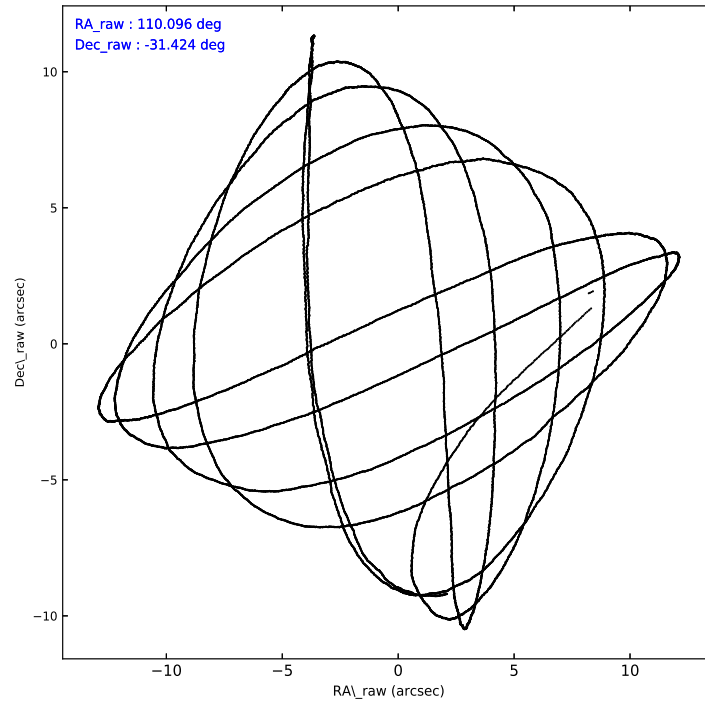
	ccd 7
level 1 events	39966
rejected events	11594
rejected %	29%

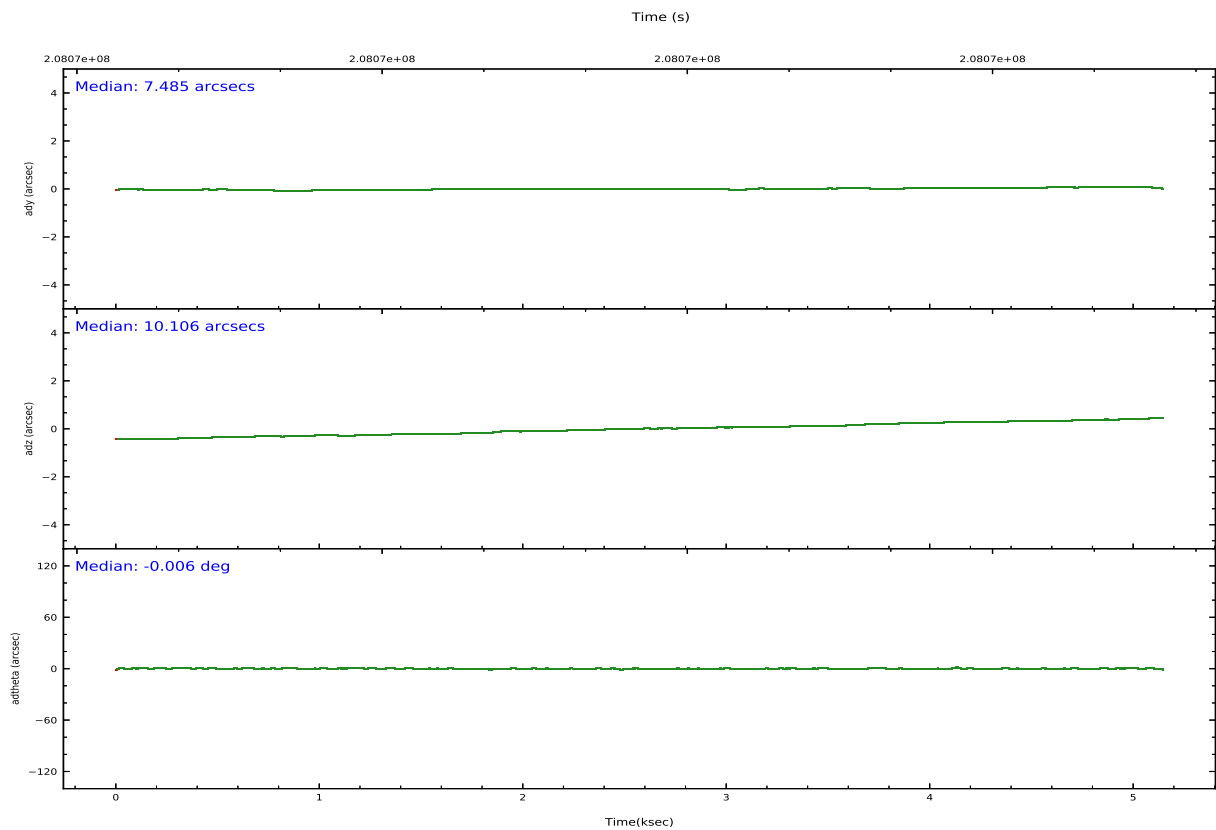
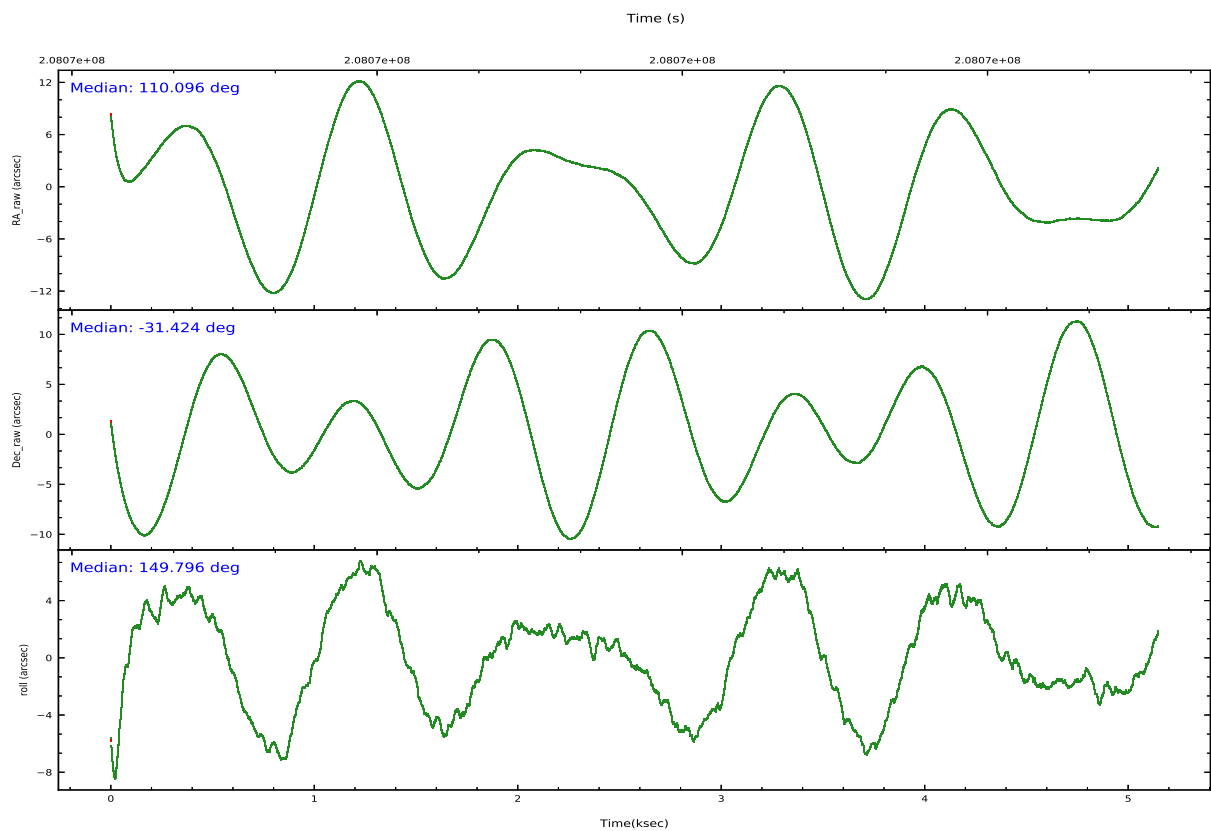
	ccd 7
grade 0 events	8003
	20%
grade 1 events	78
	0%
grade 2 events	8145
	20%
grade 3 events	2633
	6%
grade 4 events	2594
	6%
grade 5 events	5184
	12%
grade 6 events	13329
	33%
grade 7 events	0
	0%

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	110.127433	110.09942329582	Subarray requested	NONE	NONE
[deg] Pointing Dec	-31.423915	-31.422841173862	Alternating exposures requested	N	N
[deg] Pointing Roll	149.658169	149.79611891349	[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)	208067839.184000	208066012.06139			
Observation start date	2004-08-05T04:36:15	2004-08-05T04:06:52			
[s] Observation end time (MET)	208072839.184000	208073979.38674			
Observation end date	2004-08-05T05:59:35	2004-08-05T06:19:39			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



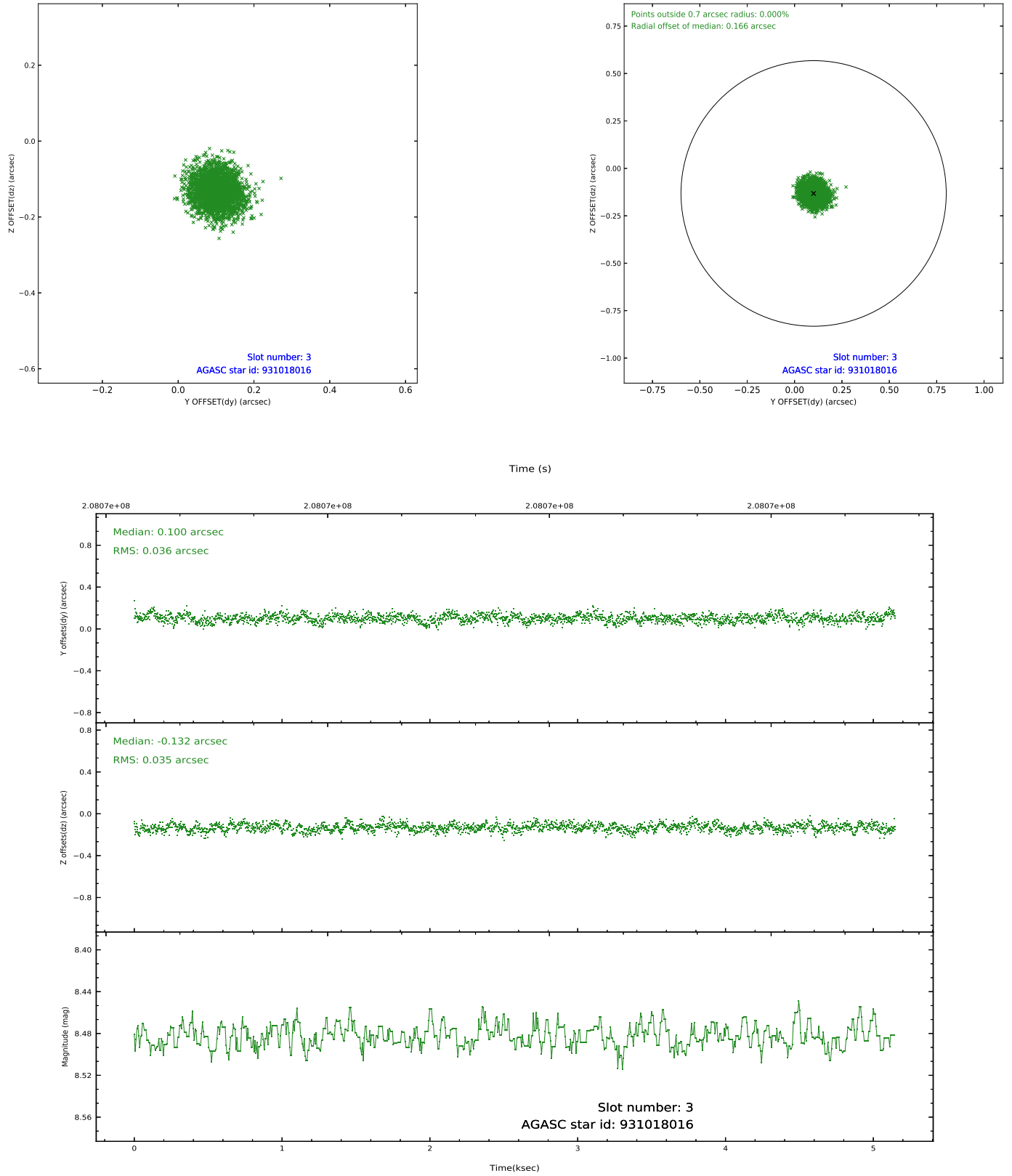


Slot Statistics

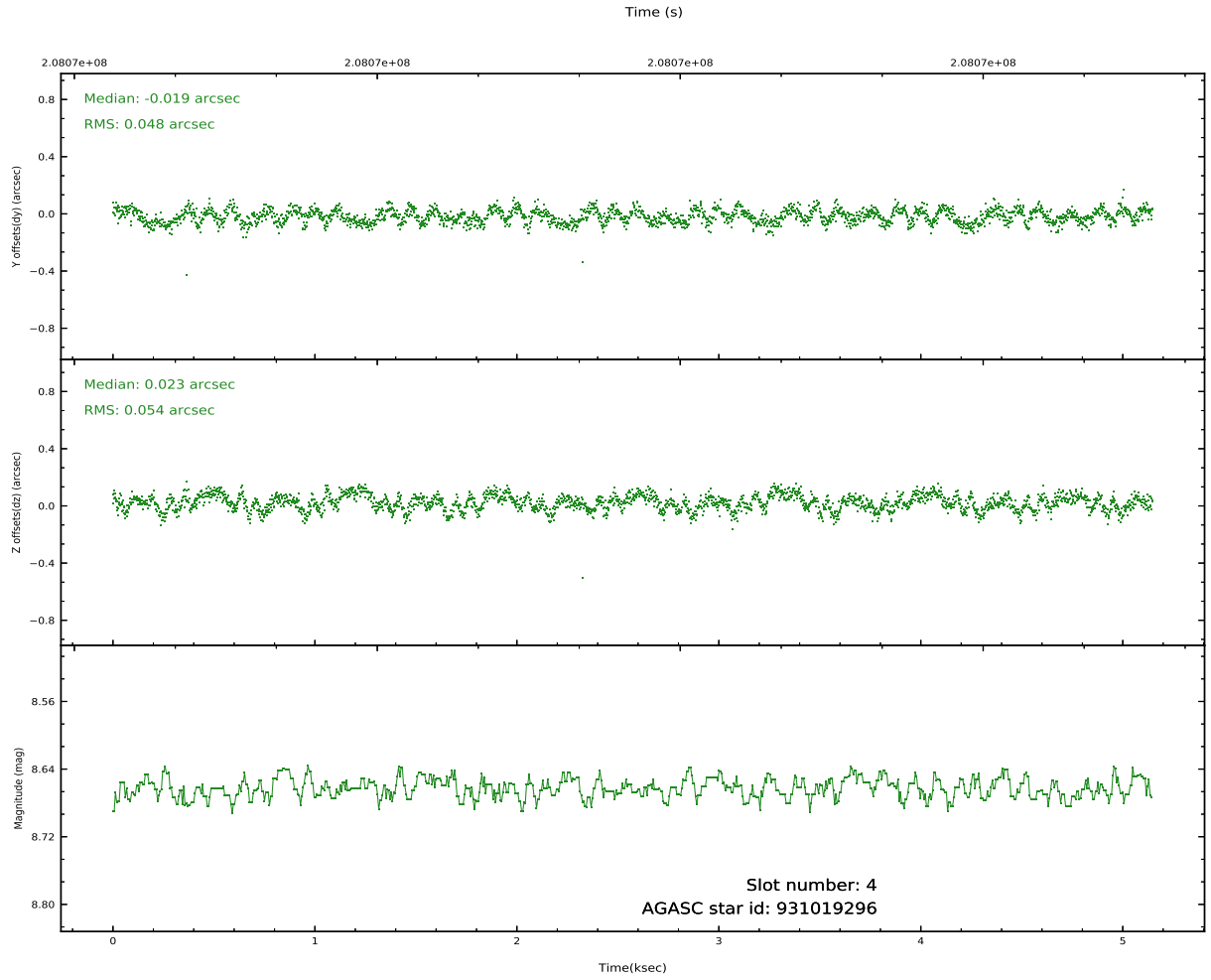
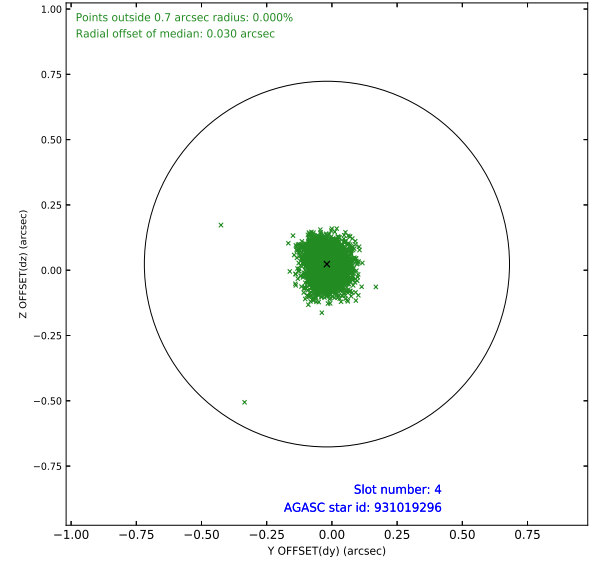
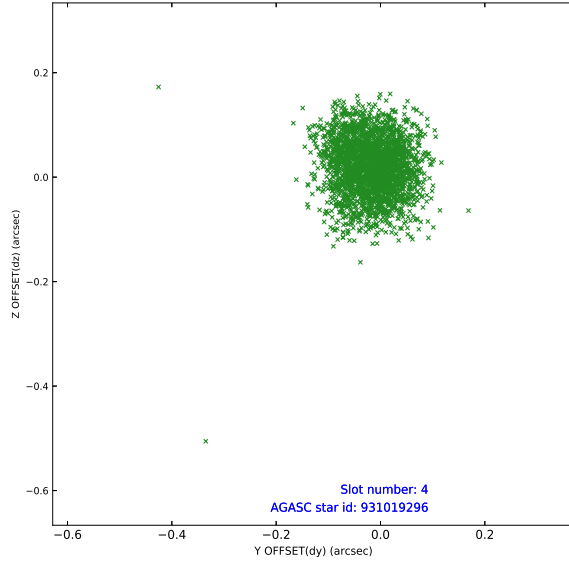
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1256	1.000	-0.109	-0.090	0.006	0.011	0.000000	0.000000	-760.31	-1731
1	FID		ACIS-S-4	7.20	1256	1.000	0.101	0.049	0.007	0.011	0.000000	0.000000	2152.59	176
2	FID		ACIS-S-6	7.34	1256	1.000	-0.021	0.048	0.008	0.013	0.000000	0.000000	403.21	814
3	GUIDE	used	931018016	8.48	2512	1.000	0.100	-0.132	0.054	0.087	109.684535	-31.226562	1534.58	77
4	GUIDE	used	931019296	8.66	2512	1.000	-0.019	0.023	0.077	0.121	109.471771	-31.694370	1239.04	1860
5	GUIDE	used	931160352	8.62	2512	1.000	0.011	0.085	0.070	0.119	110.268138	-30.864891	642.42	-1955
6	GUIDE	used	931163512	8.45	2511	1.000	-0.019	0.023	0.063	0.098	110.894384	-31.299941	-1814.02	-1570
7	GUIDE	used	931022960	8.94	2509	1.000	-0.072	0.004	0.081	0.129	109.733092	-31.864448	237.58	1978

2.4 Star Slots

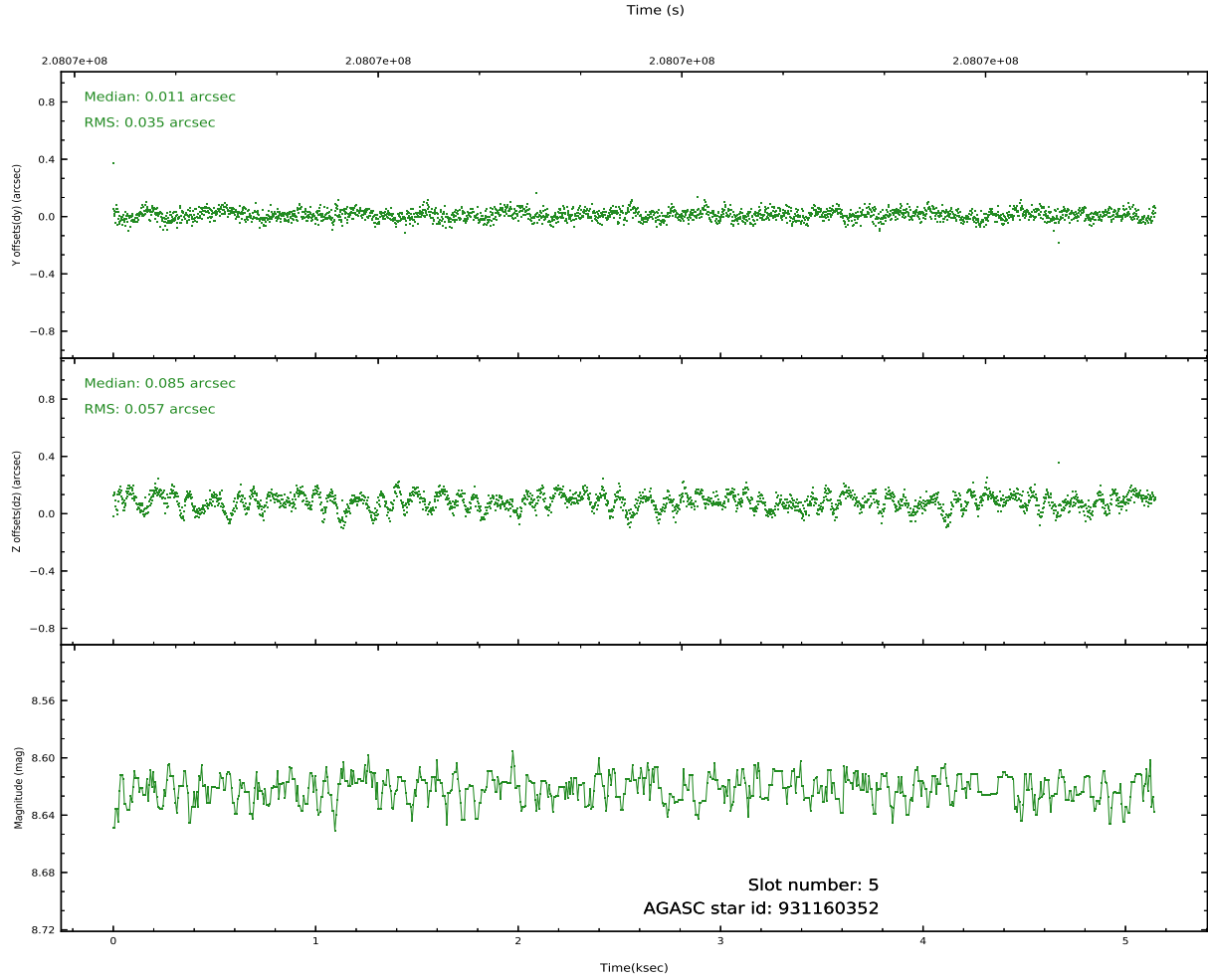
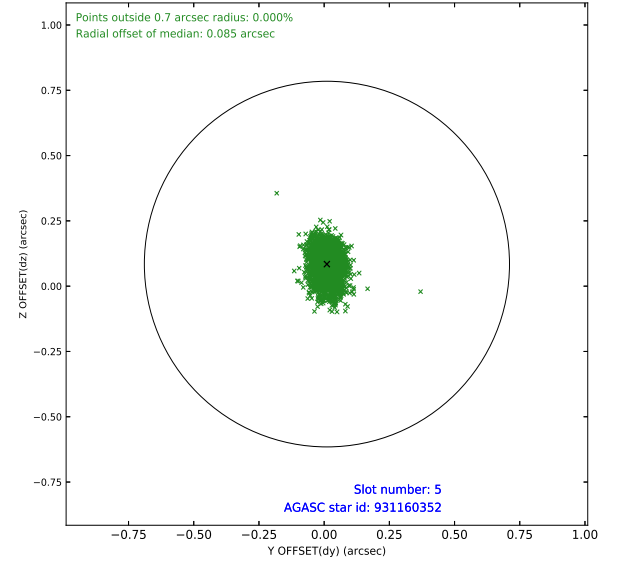
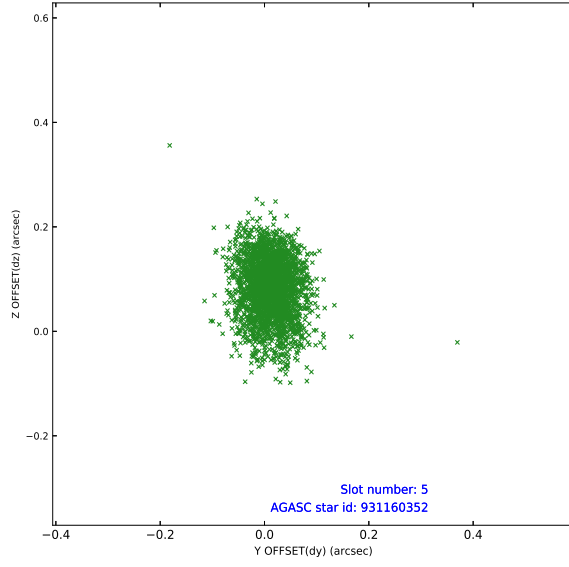
2.4.1 Slot 3



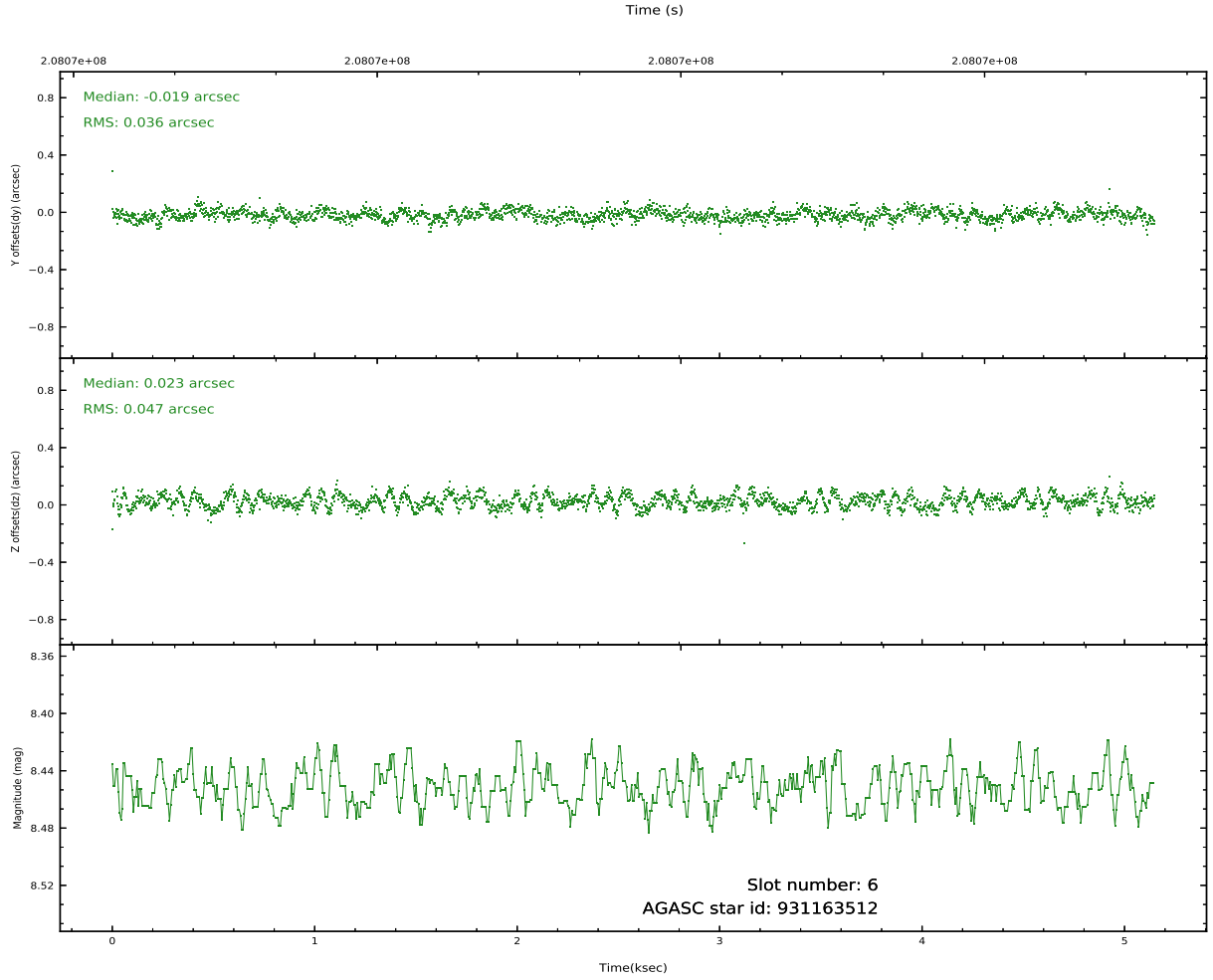
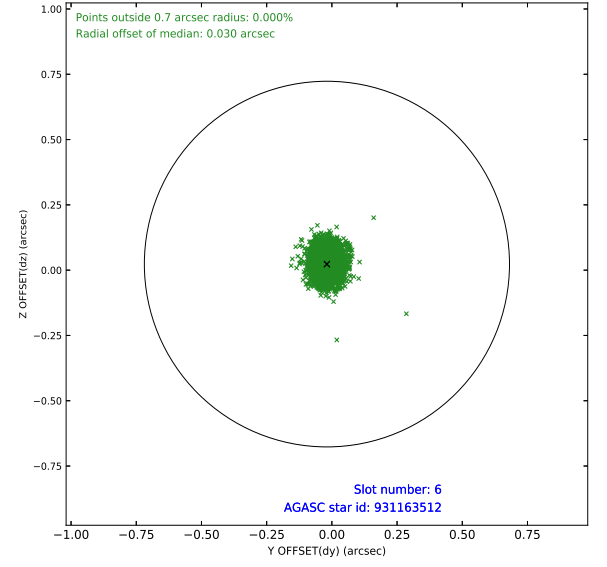
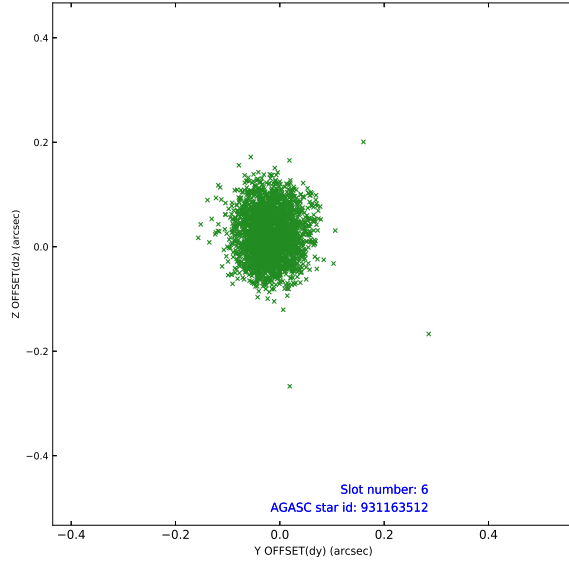
2.4.2 Slot 4



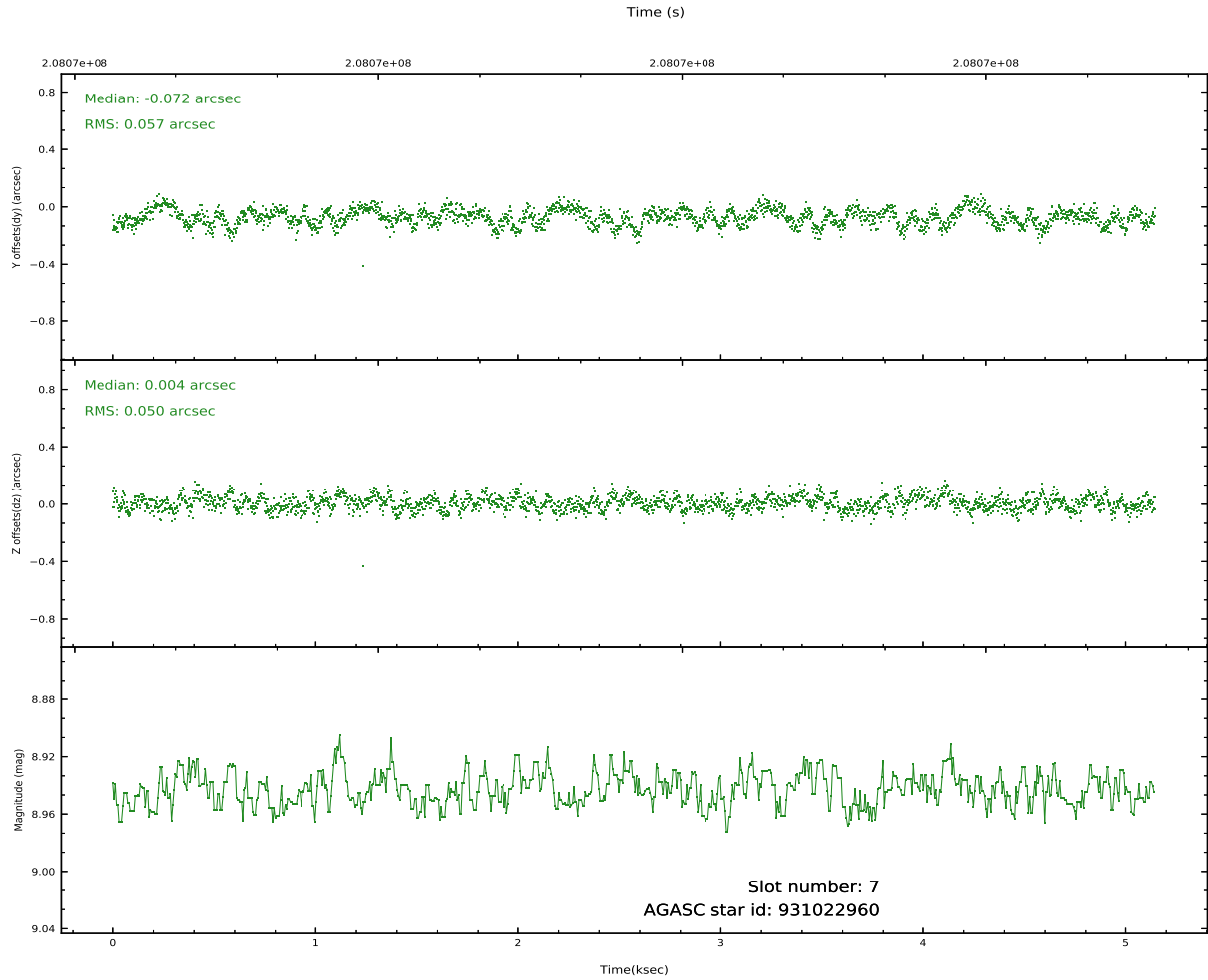
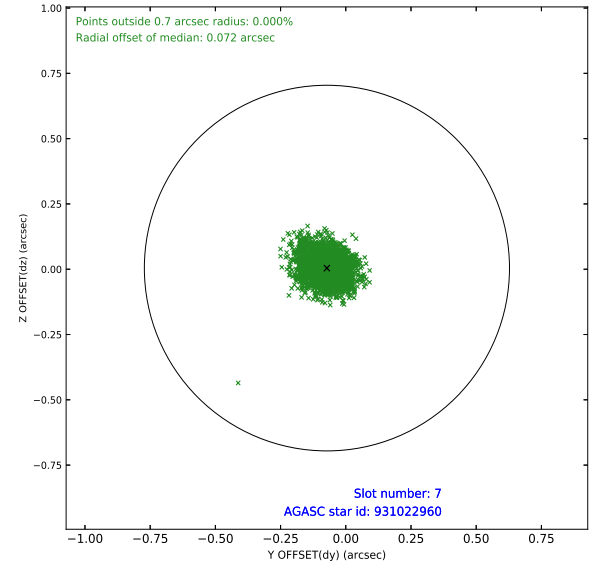
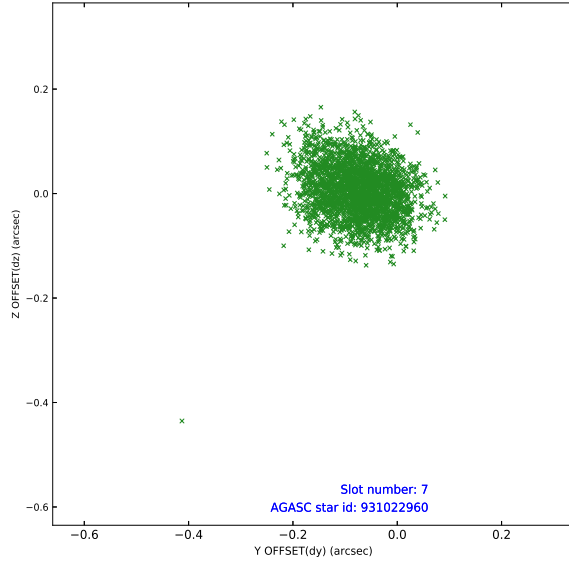
2.4.3 Slot 5



2.4.4 Slot 6

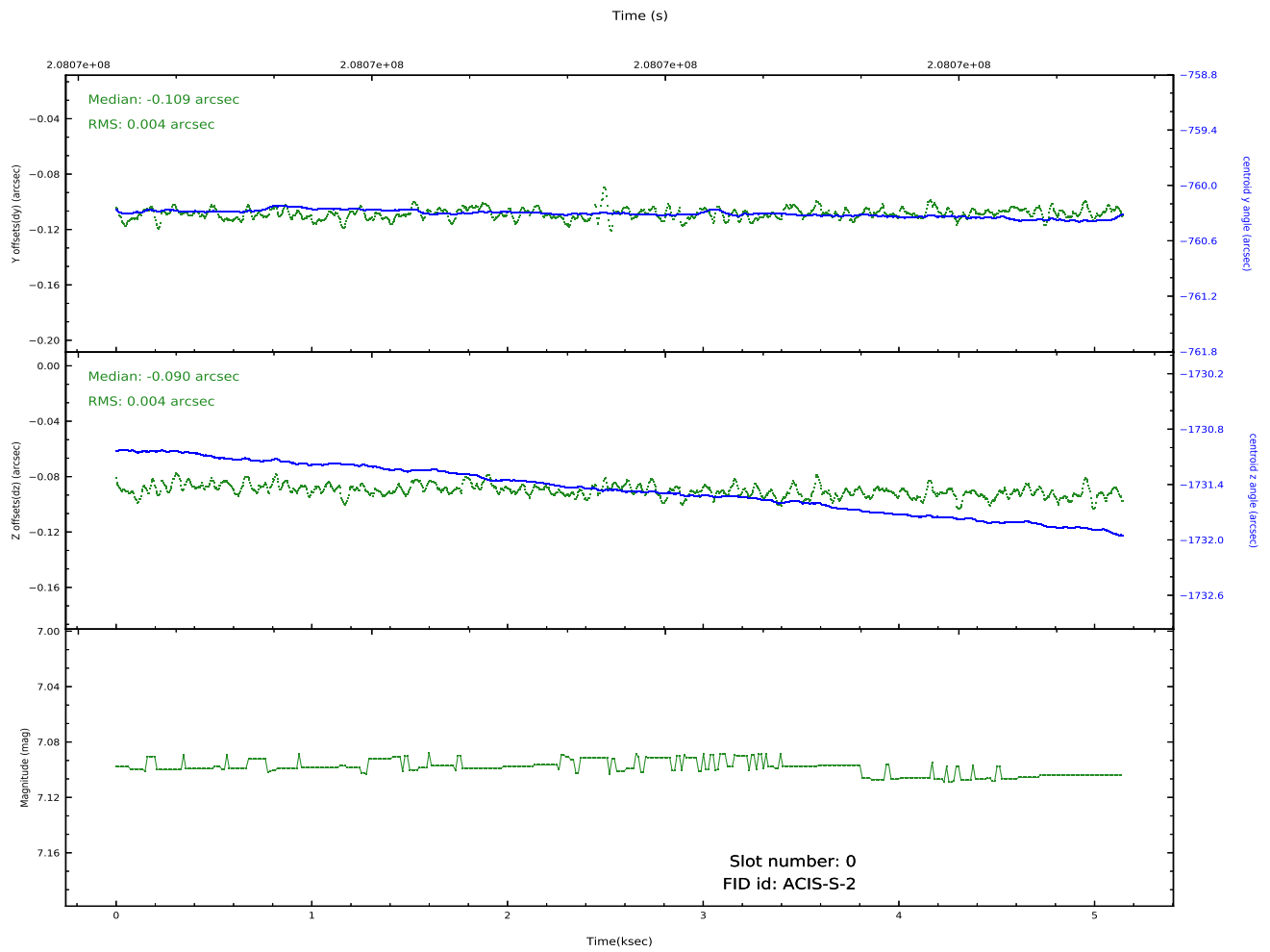
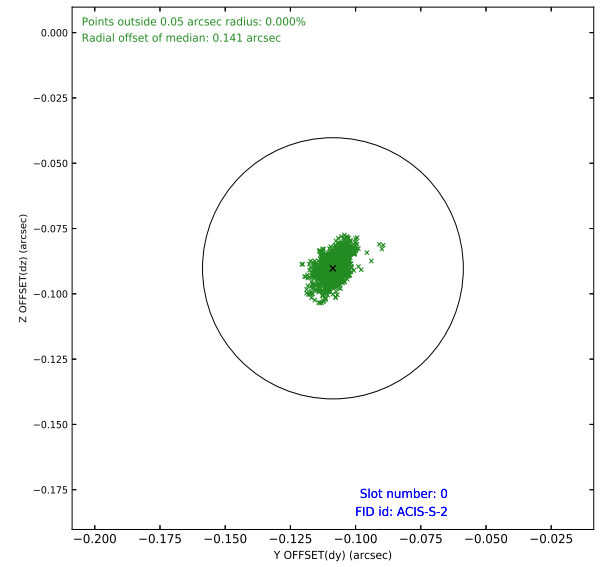
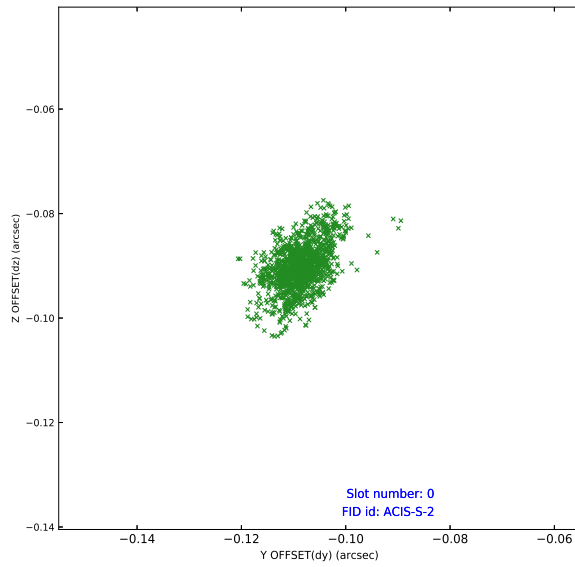


2.4.5 Slot 7

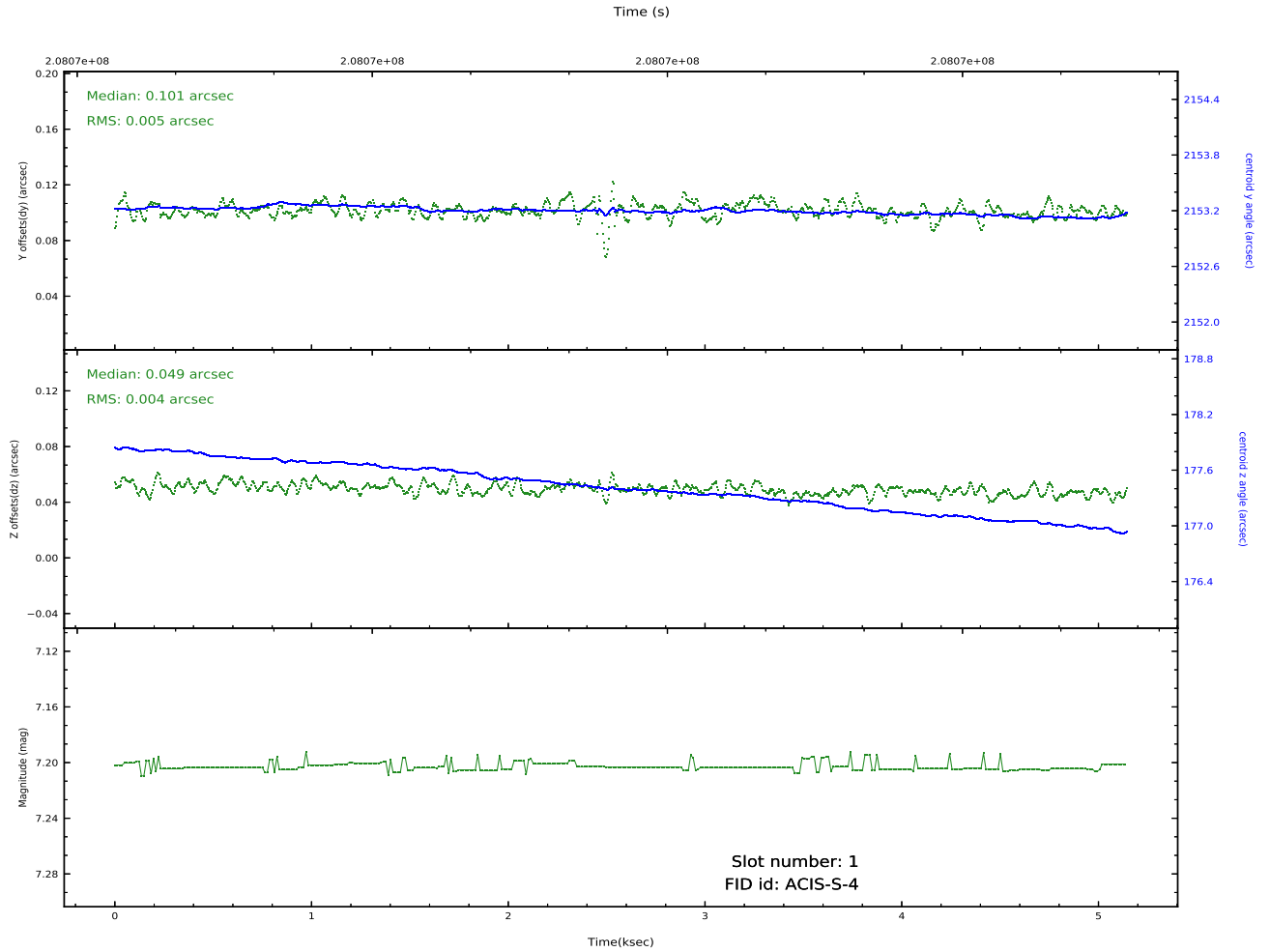
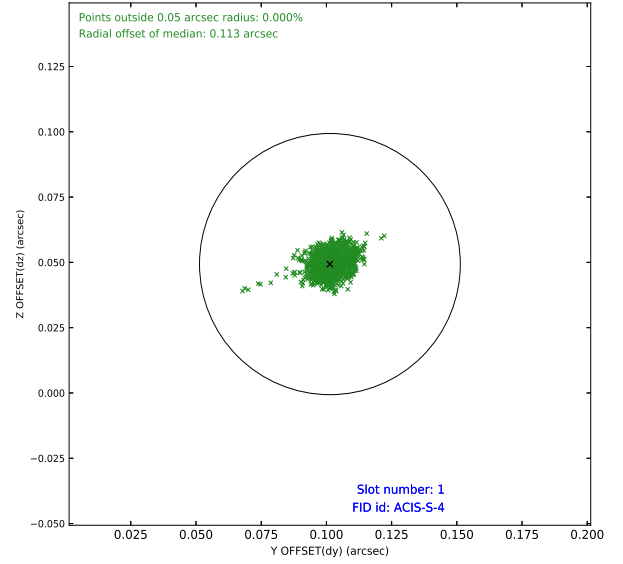
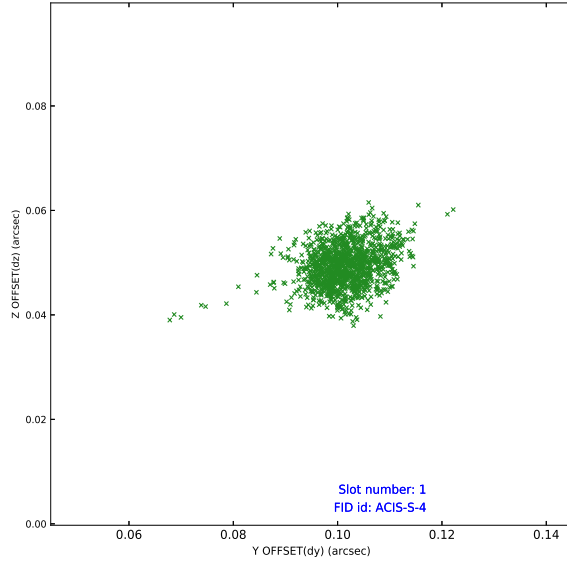


2.5 FID Slots

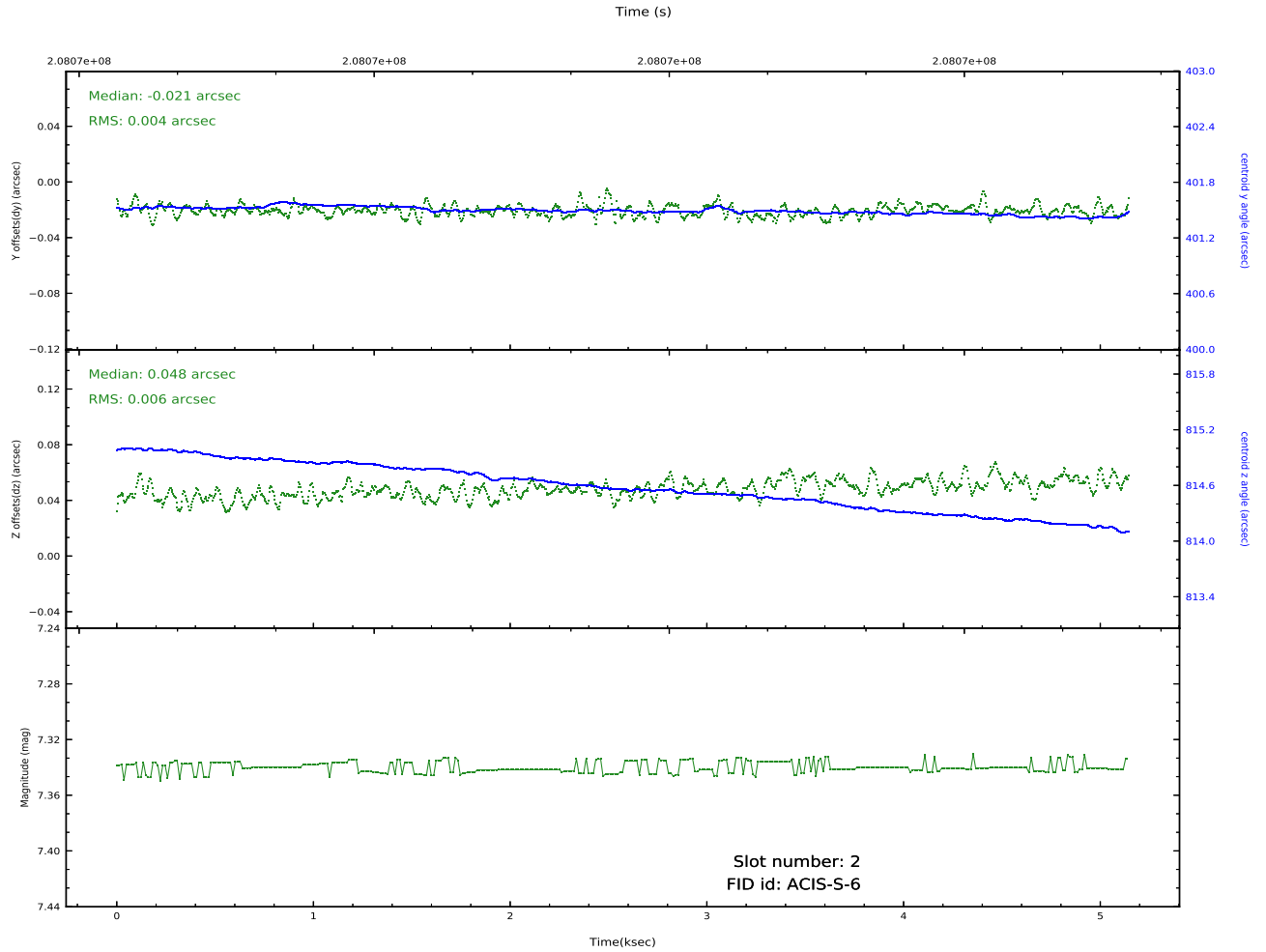
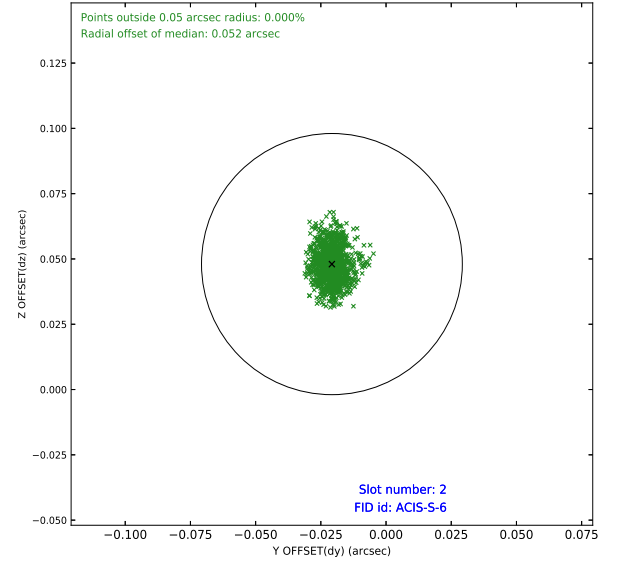
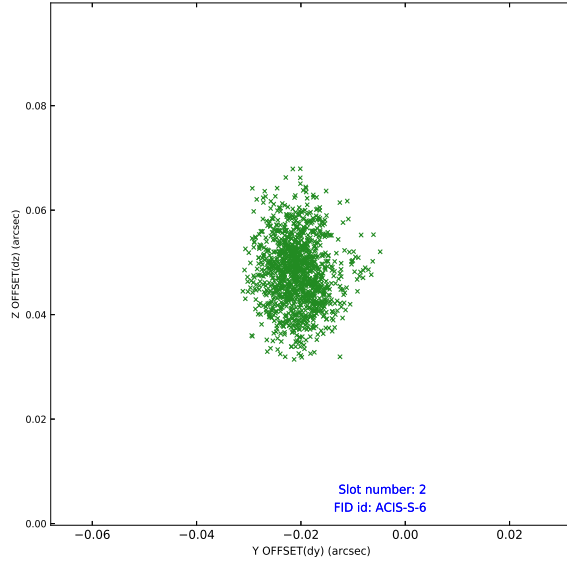
2.5.1 Slot 0



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	5.146

A.2 Comments