

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4576 - L2 Version 4
Chandra X-Ray Center

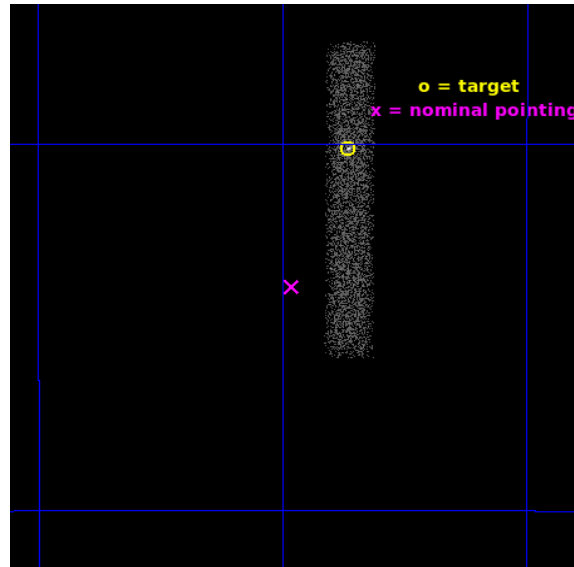
L2 Processing Date : Sep 26 2020

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1 Front

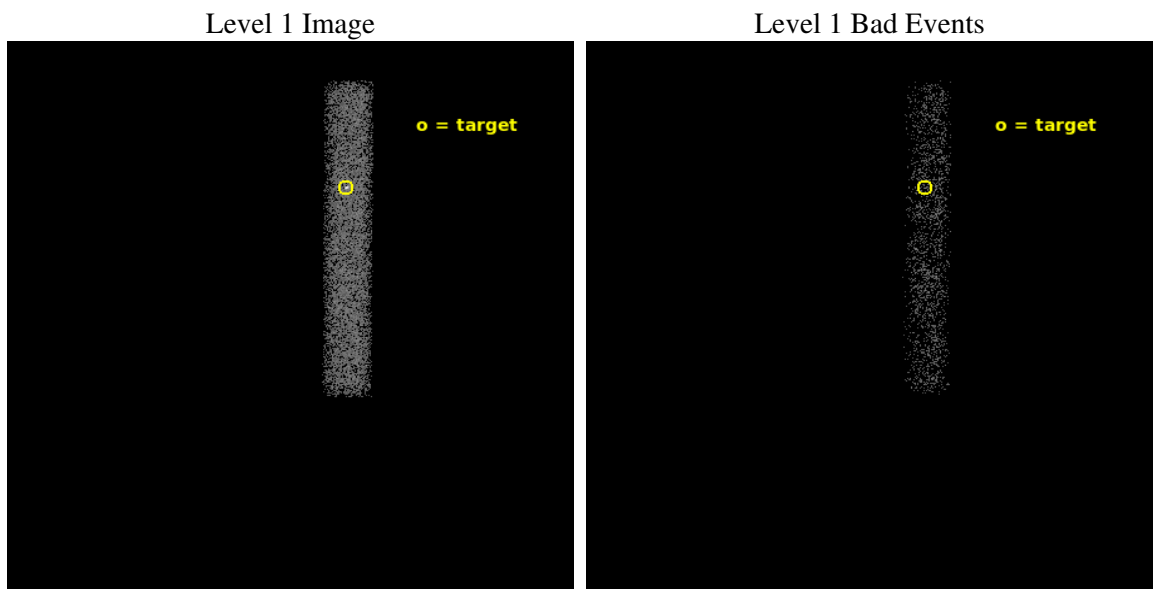
seq_num	400358	Sequence number
obs_id	4576	Observation id
title	The Spectral Energy Distribution of Cen X-4	Proposal title
observer	Dr. Michael Garcia	Principal investigator
object	Cen X-4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	224.591667	Observer's specified target RA [deg]
dec_targ	-31.66875	Observer's specified target Dec [deg]
ra_nom	224.62011812459	Nominal RA [deg]
dec_nom	-31.731682341233	Nominal Dec [deg]
roll_nom	270.31915439896	Nominal Roll [deg]
revision	4	Processing version of data
ontime	11182.000166595	Sum of GTIs [s]
livetime	10141.483916738	Livetime [s]
ontime7	11182.000166595	Sum of GTIs [s]
l2events	7241	Number of level 2 events



2 OBI

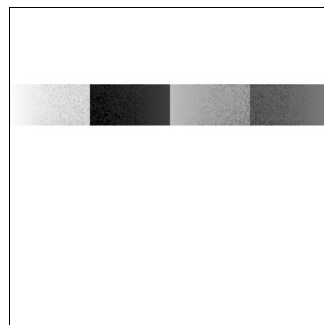
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10999.865000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	11182.000166595	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	11182.000166595	Sum of GTIs [s]
date	2020-09-26T19:48:02	Date and time of file creation	l1events	16636	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	16636
rejected events	9138
rejected %	54%

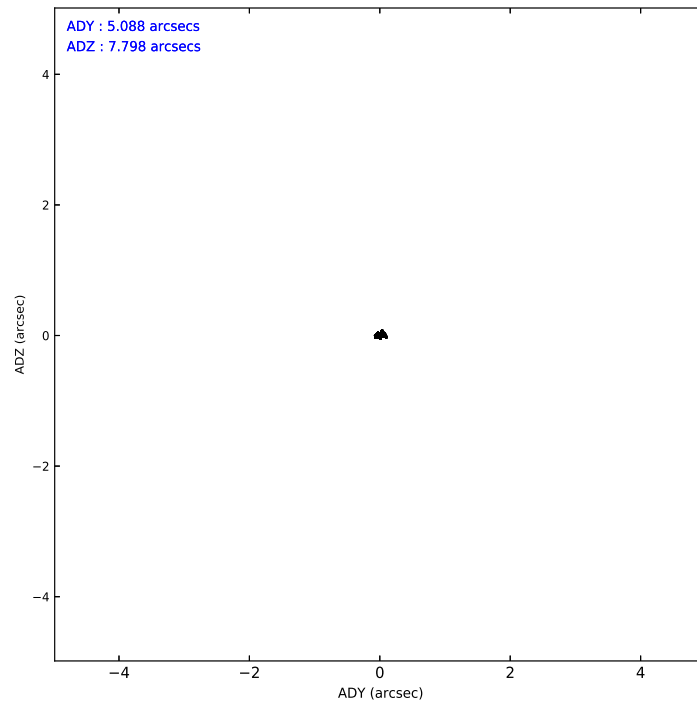
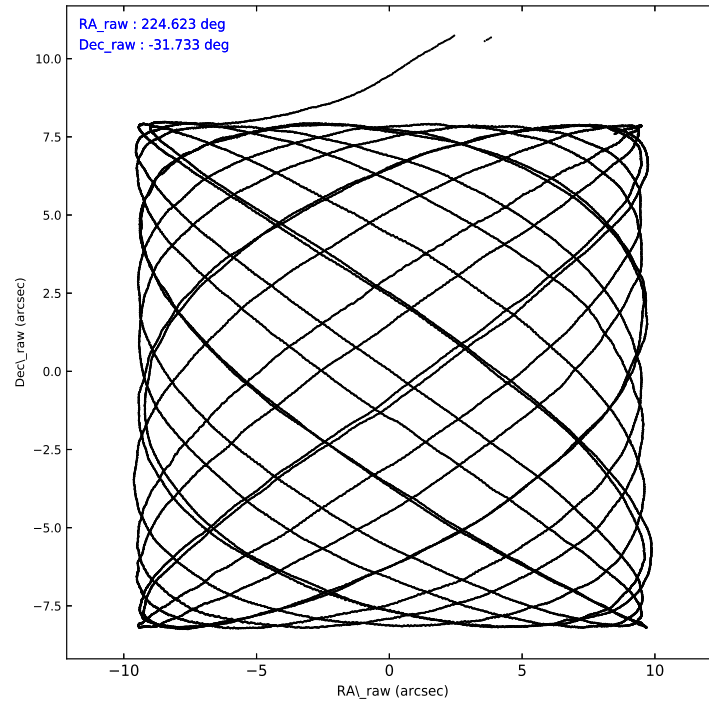
	ccd 7
grade 0 events	1163
	6%
grade 1 events	24
	0%
grade 2 events	1484
	8%
grade 3 events	1085
	6%
grade 4 events	964
	5%
grade 5 events	1570
	9%
grade 6 events	3298
	19%
grade 7 events	7048
	42%

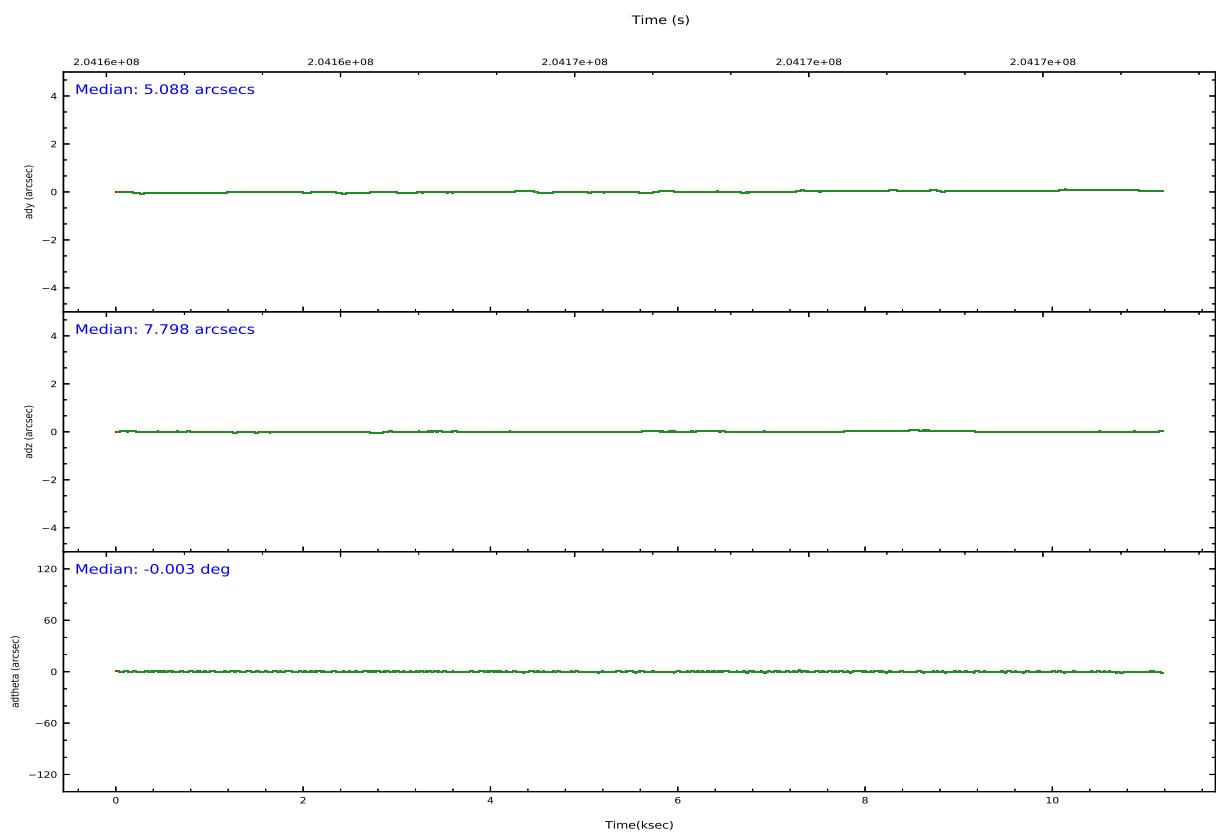
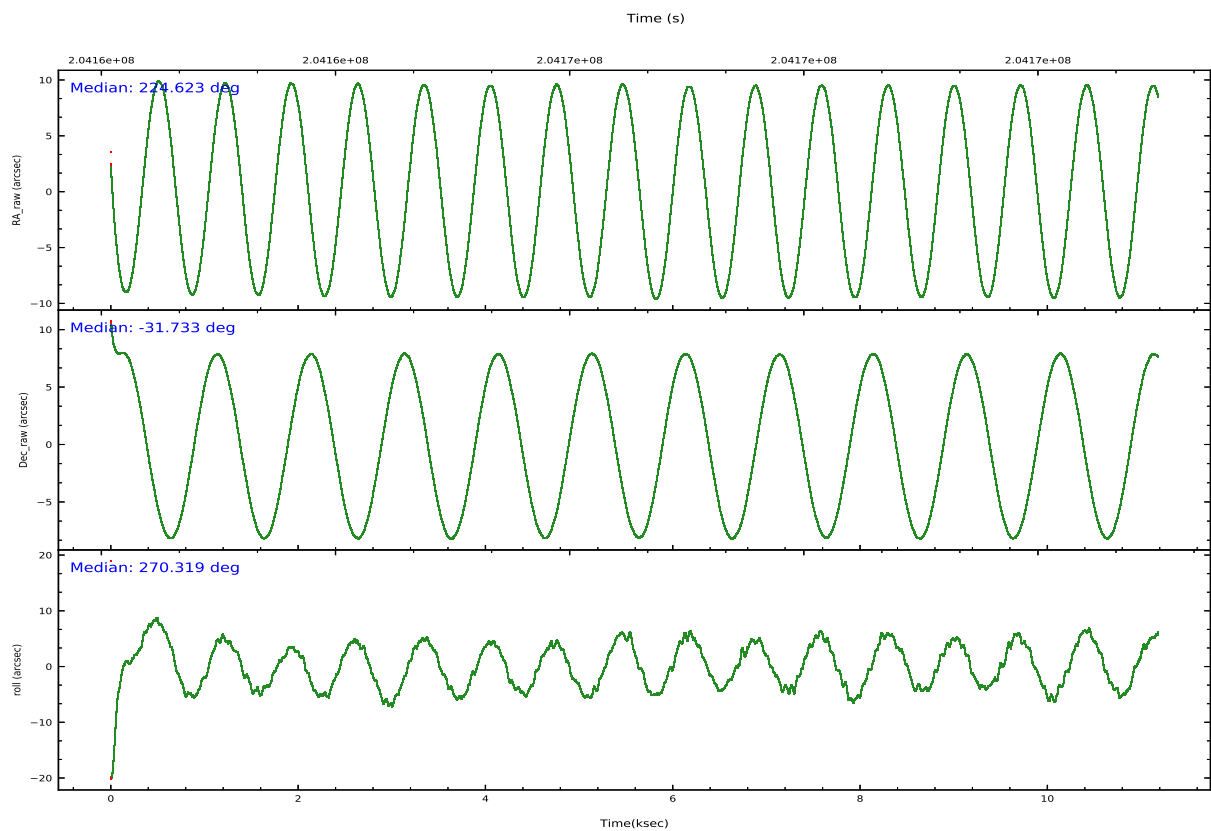
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	224.606287	224.62011812459
[deg] Pointing Dec	-31.709886	-31.731682341233
[deg] Pointing Roll	270.155774	270.31915439896
[s] Window start time (MET)	204078484.184000	204078484.184000
[s] Window stop time (MET)	204100264.184000	204100264.184000
[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)	204162784.184000	204161728.9756
Observation start date	2004-06-20T23:52:00	2004-06-20T23:35:28
[s] Observation end time (MET)	204173784.184000	204174544.55117
Observation end date	2004-06-21T02:55:20	2004-06-21T03:09:04
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	650	650
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

2.3 Aspect



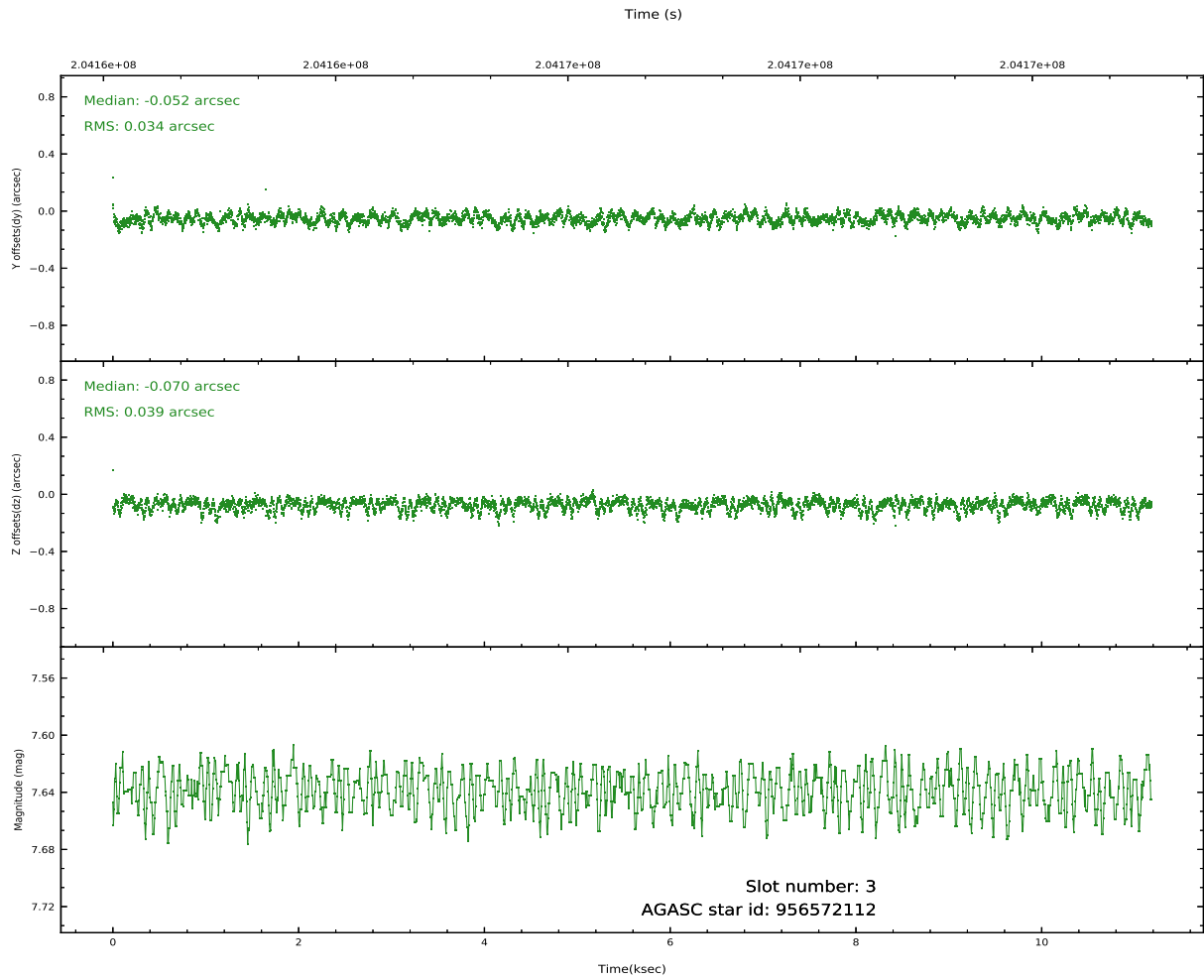
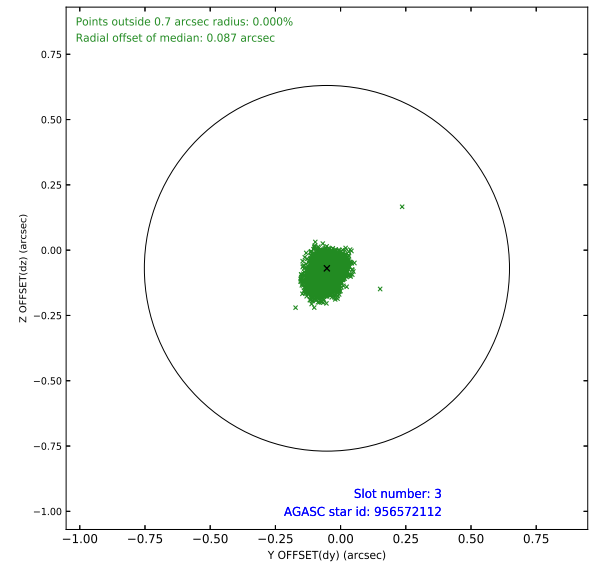
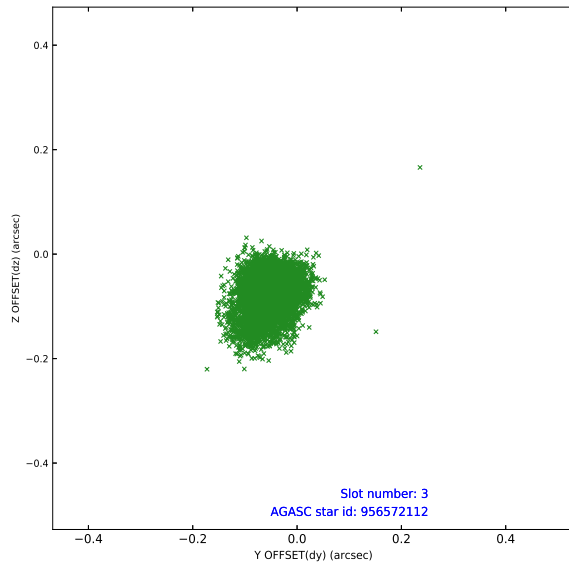


Slot Statistics

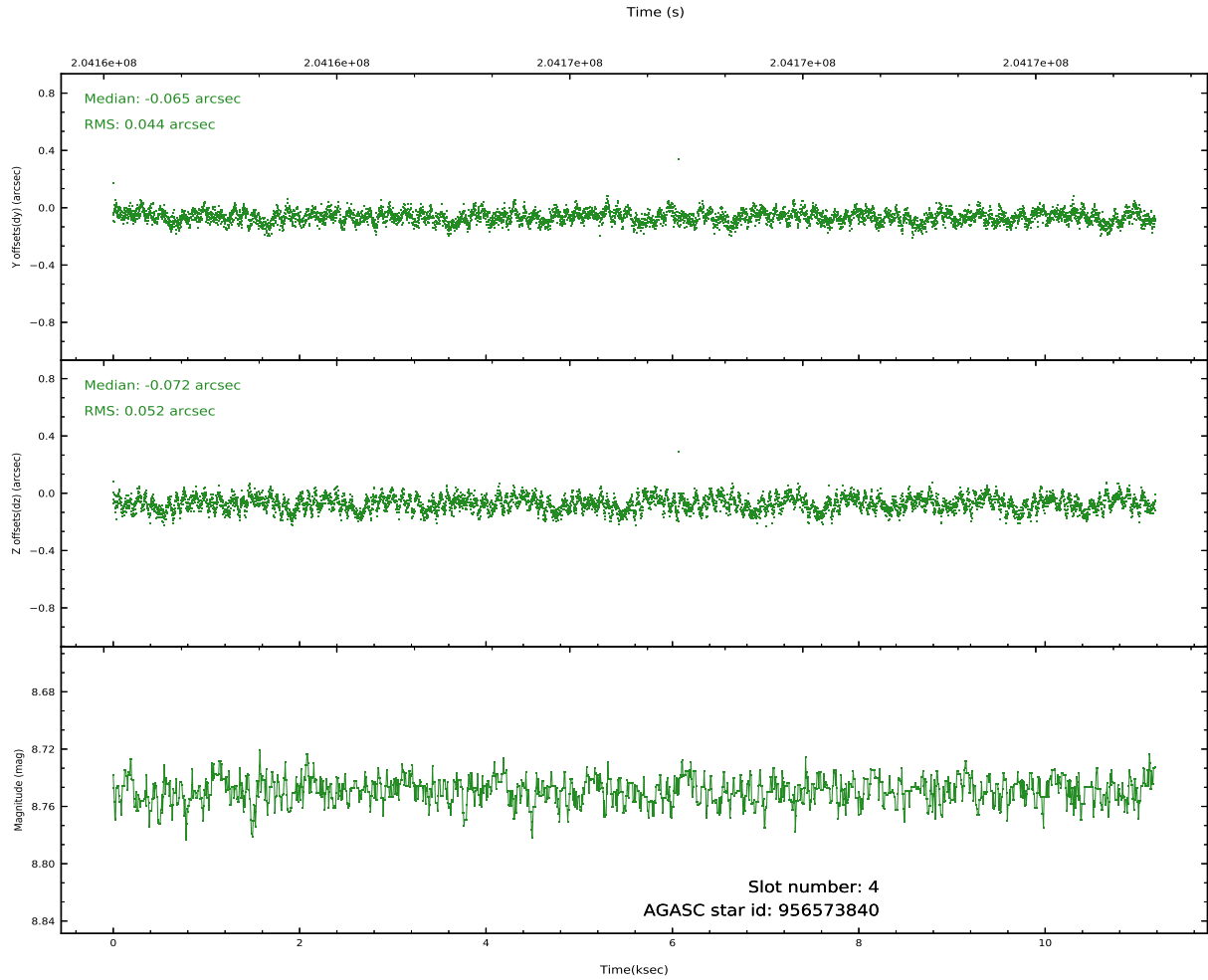
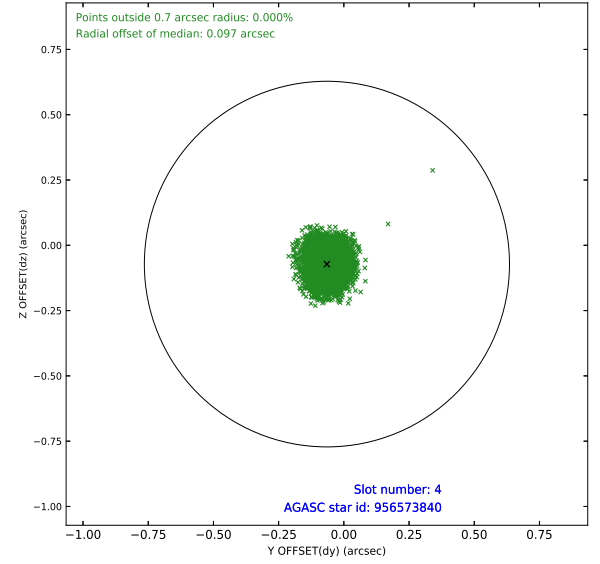
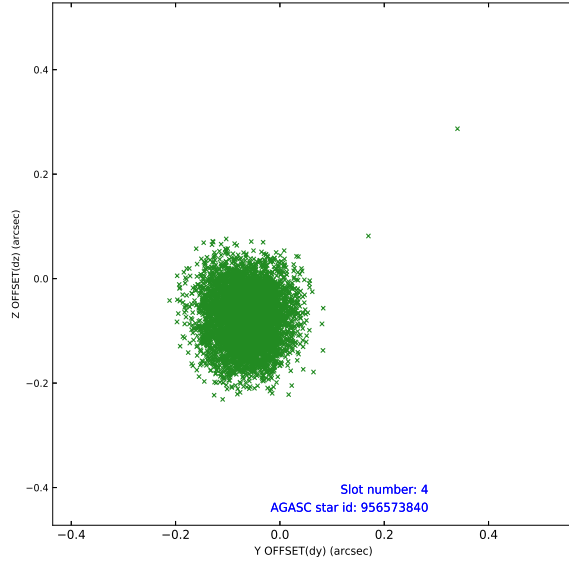
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	2728	1.000	-0.115	-0.088	0.006	0.010	0.000000	0.000000	-757.93	-1729
1	FID		ACIS-S-4	7.21	2727	1.000	0.079	0.068	0.006	0.010	0.000000	0.000000	2155.35	179
2	FID		ACIS-S-6	7.35	2728	1.000	0.008	0.027	0.007	0.011	0.000000	0.000000	404.79	817
3	GUIDE	used	956572112	7.64	5456	1.000	-0.052	-0.070	0.054	0.092	223.861077	-31.418161	-1048.26	-2286
4	GUIDE	used	956573840	8.75	5456	1.000	-0.065	-0.072	0.073	0.114	223.997560	-31.088122	-2237.95	-1871
5	GUIDE	used	956575352	8.54	5453	1.000	0.048	-0.039	0.069	0.105	223.873030	-31.529443	-647.99	-2248
6	GUIDE	used	958277040	8.92	5452	1.000	0.032	0.119	0.070	0.115	225.059014	-31.205389	-1809.39	1398
7	GUIDE	used	957091448	7.82	5455	1.000	0.041	0.070	0.050	0.082	224.977023	-32.370724	2384.06	1121

2.4 Star Slots

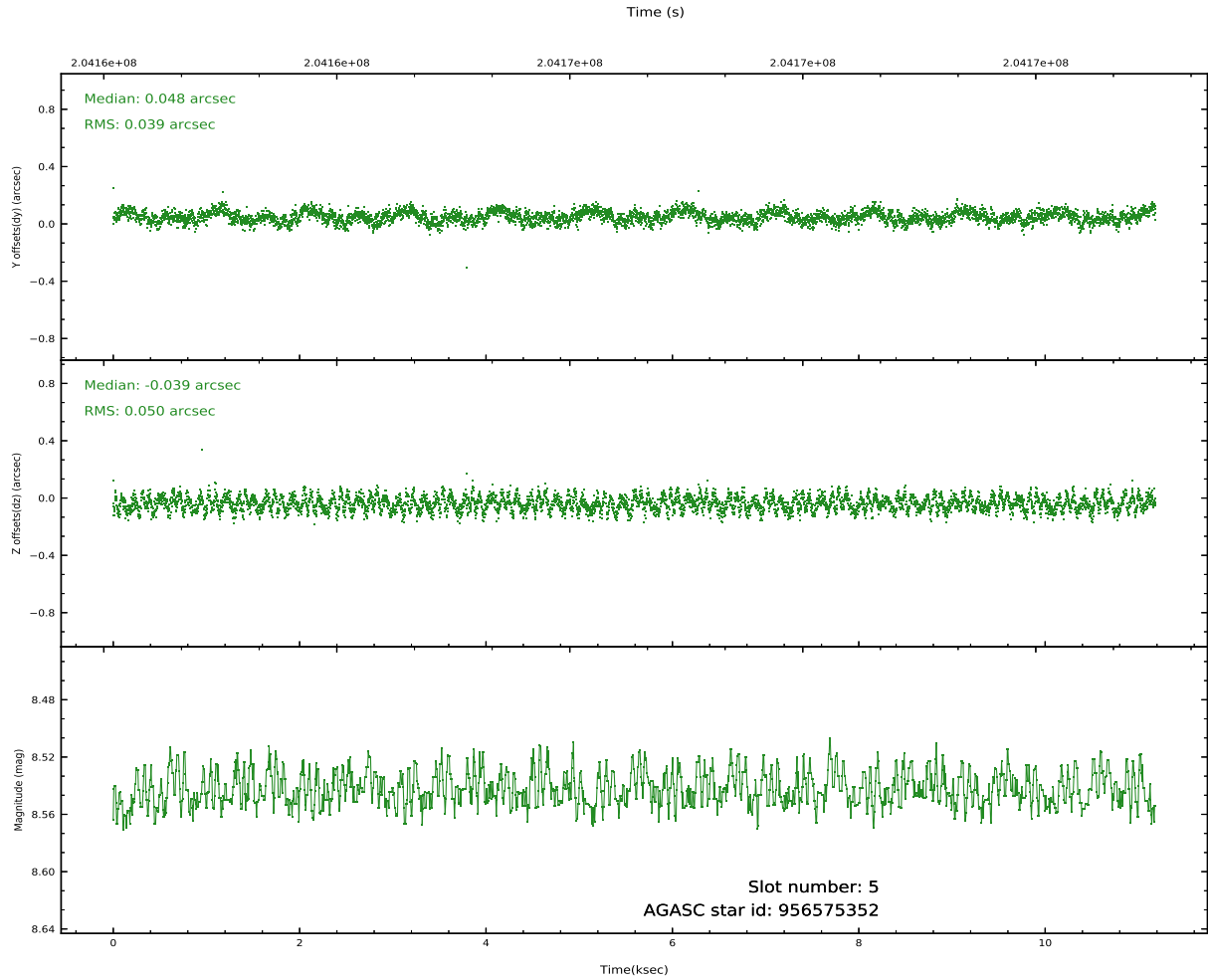
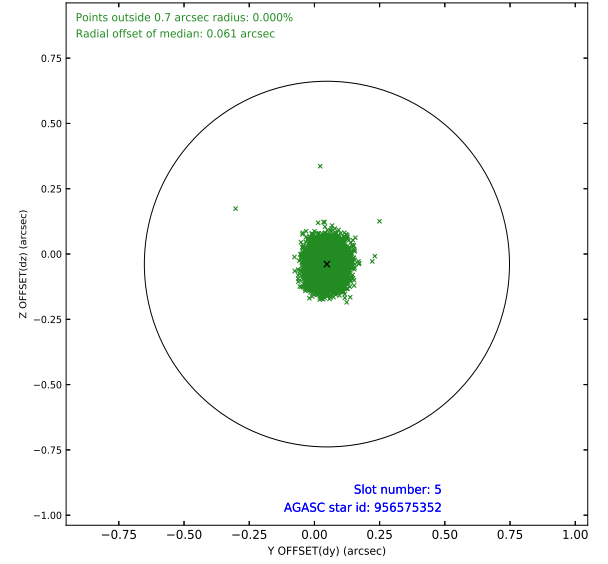
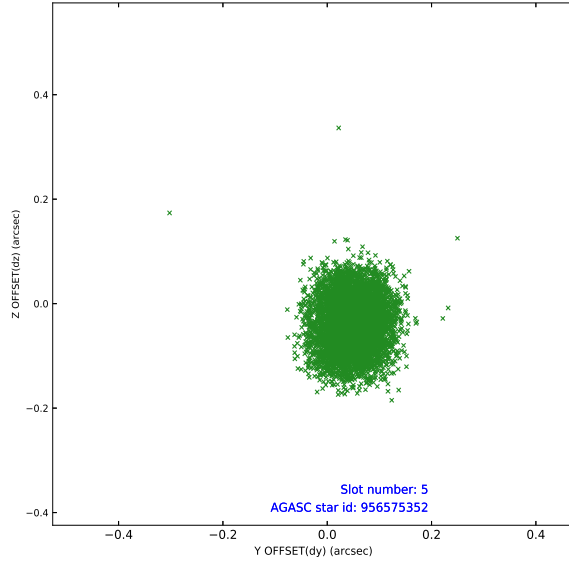
2.4.1 Slot 3



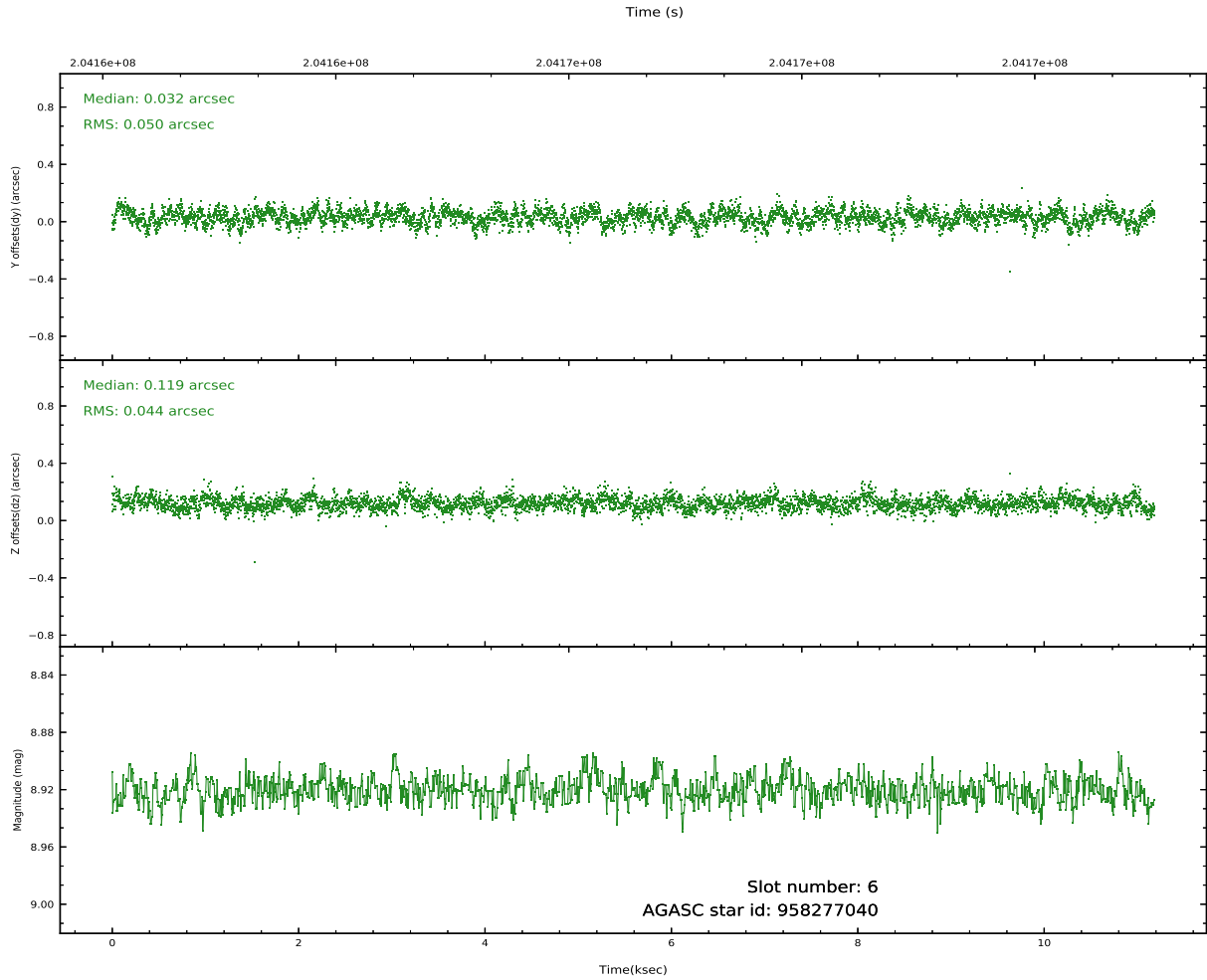
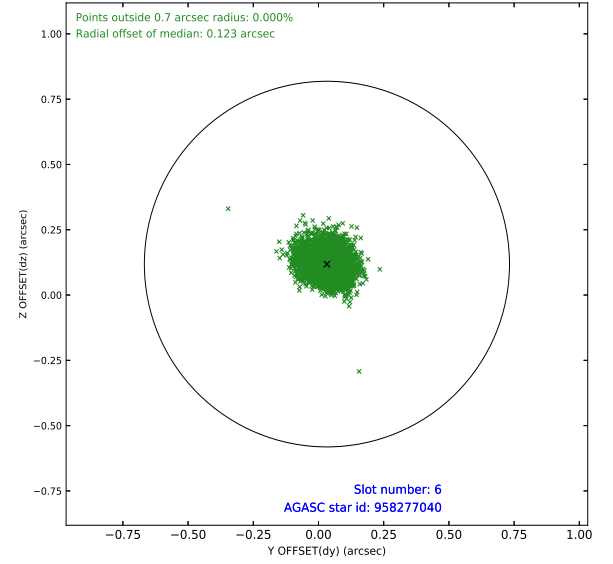
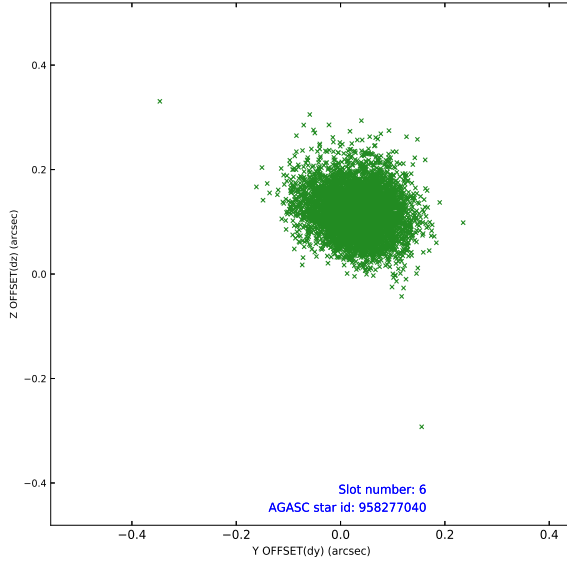
2.4.2 Slot 4



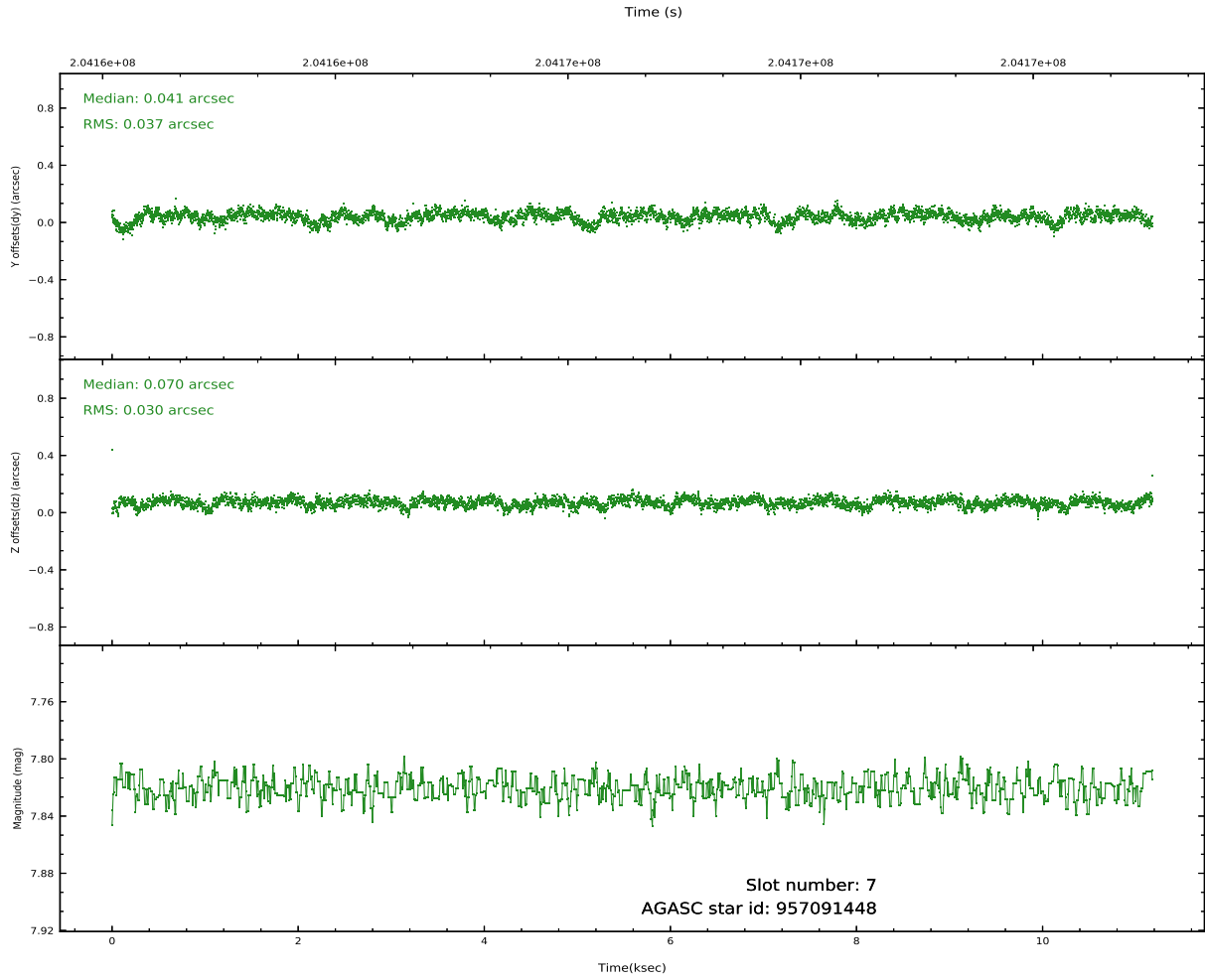
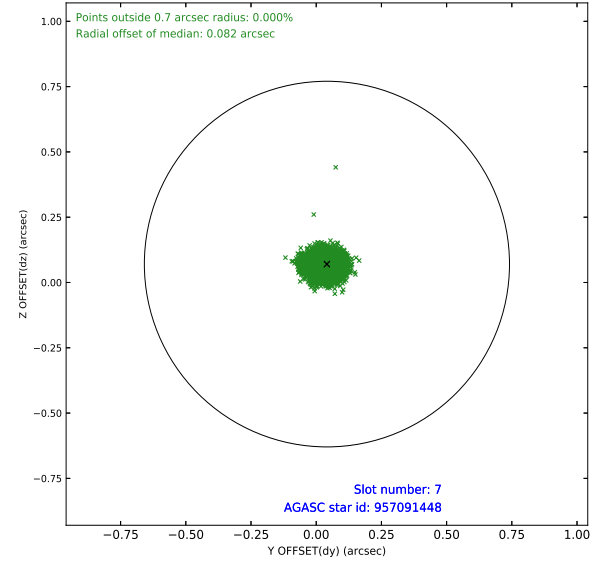
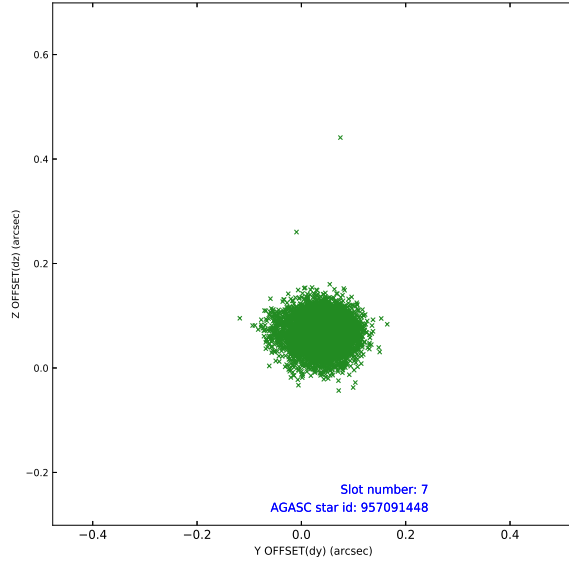
2.4.3 Slot 5



2.4.4 Slot 6

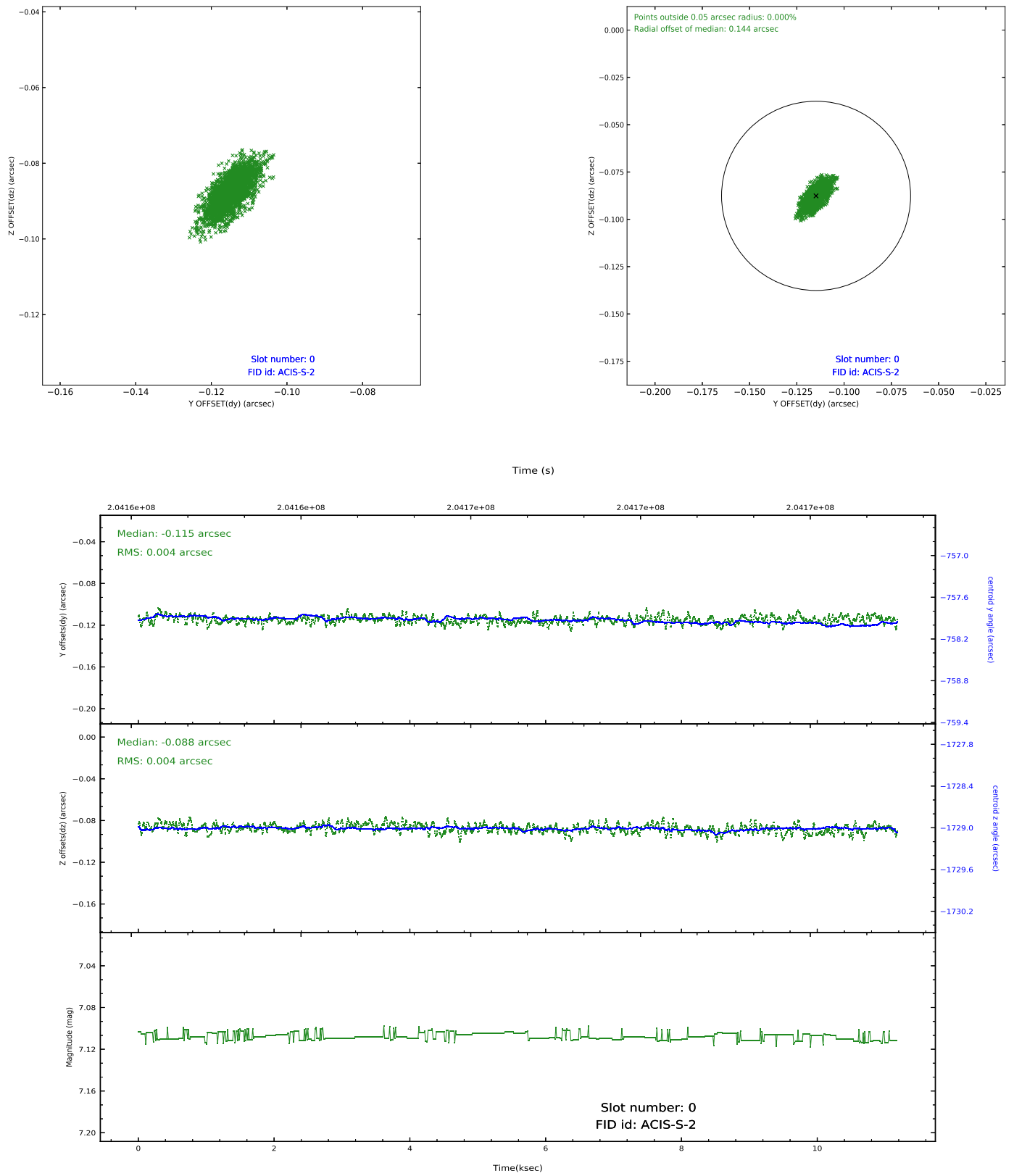


2.4.5 Slot 7

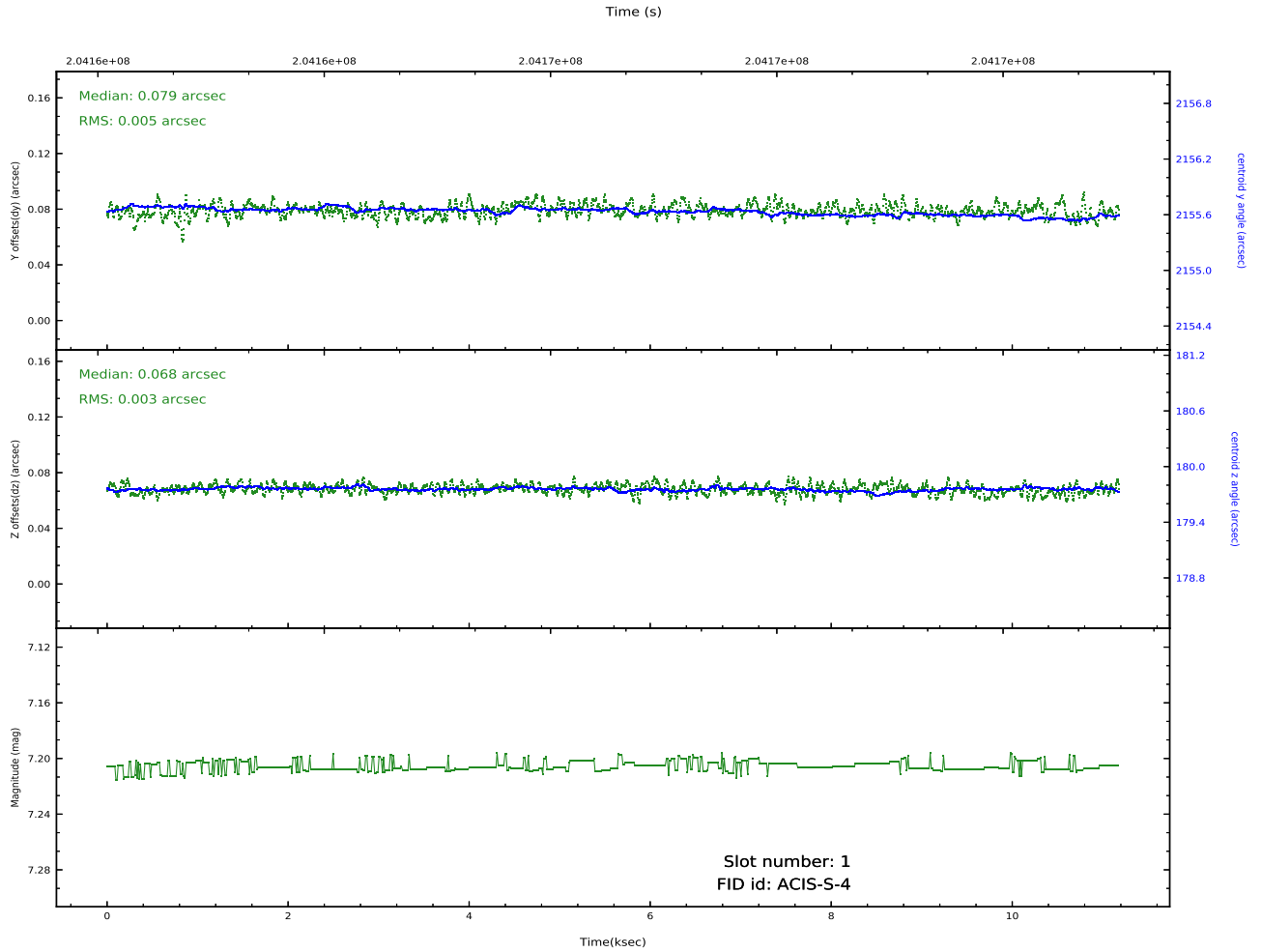
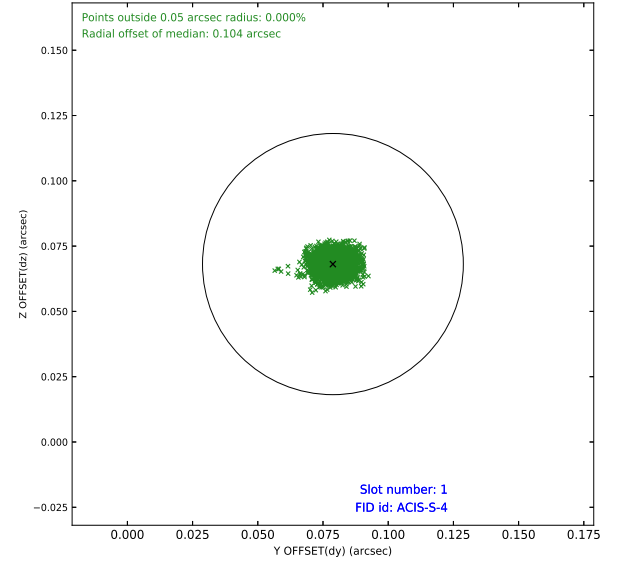
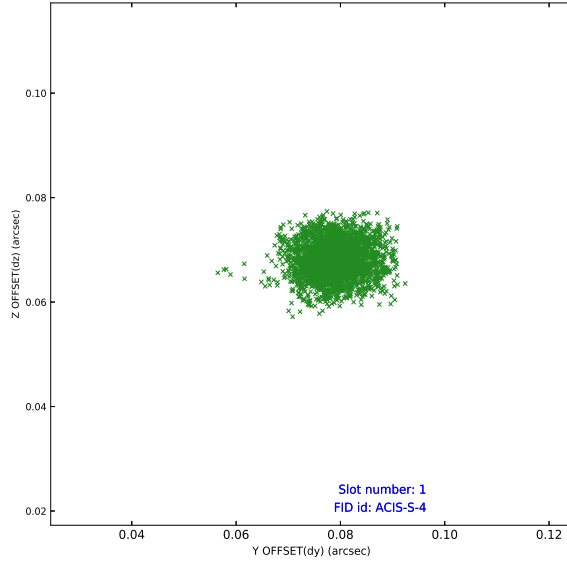


2.5 FID Slots

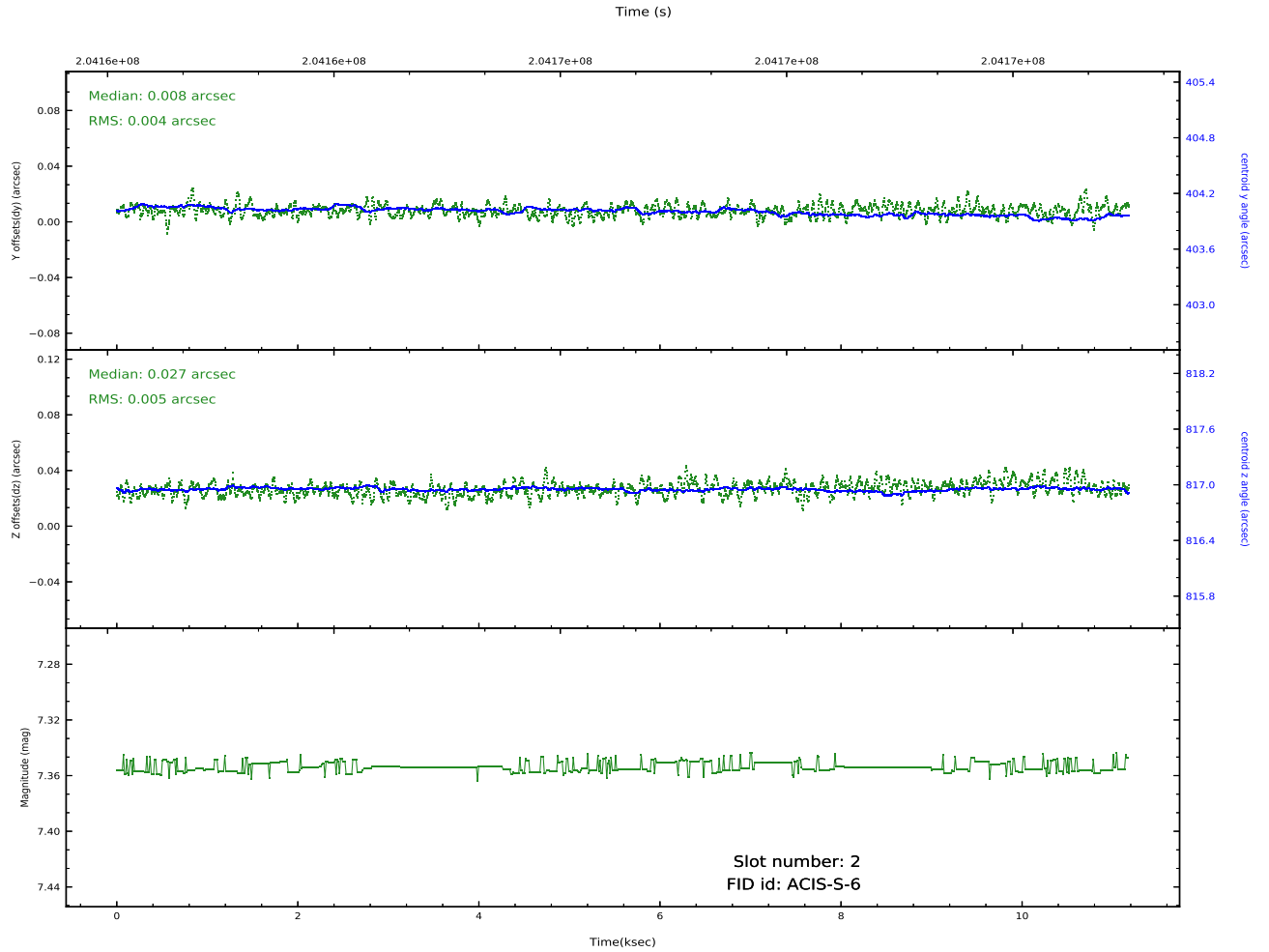
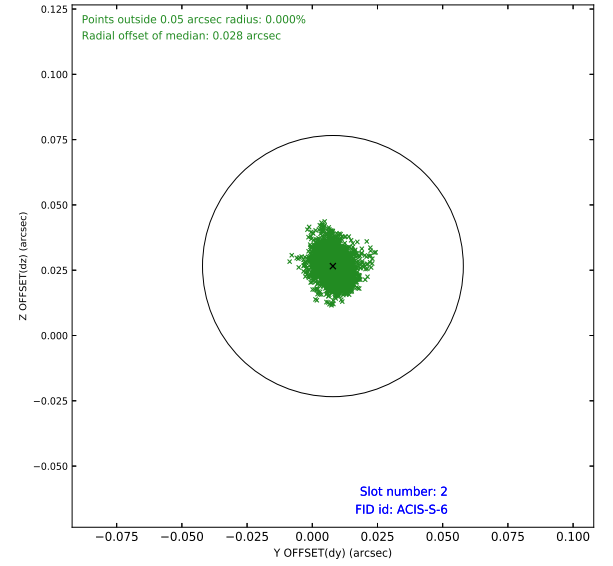
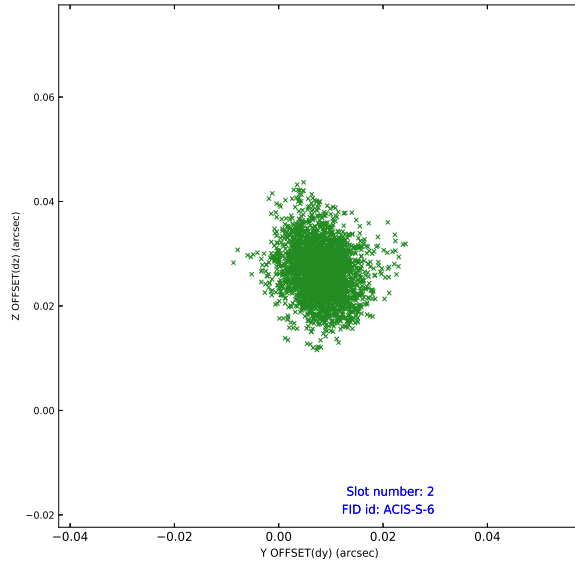
2.5.1 Slot 0



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)	2020.09.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.182

A.2 Comments

Joint proposal with HST.

Window constraint met.