

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20965 - L2 Version 2
Chandra X-Ray Center

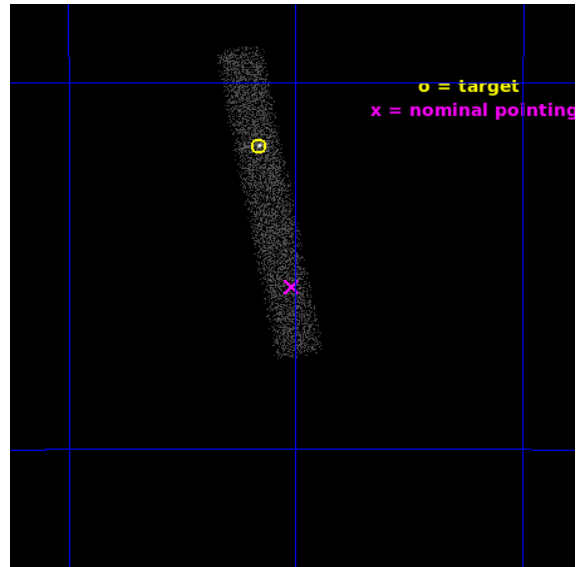
L2 Processing Date : Oct 24 2020

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1 Front

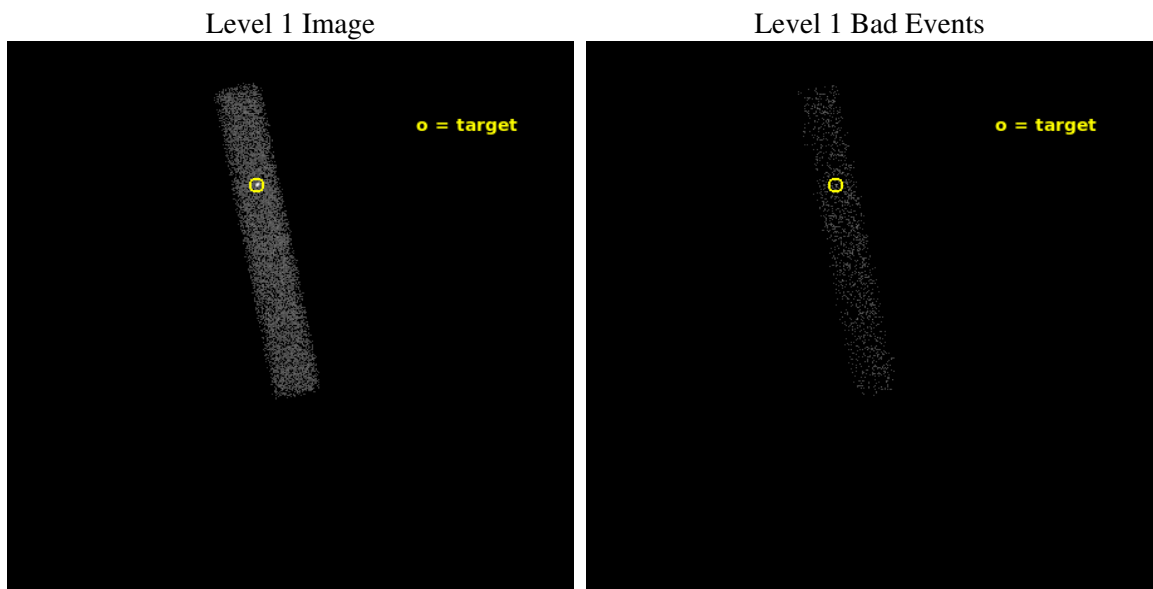
seq_num	402021	Sequence number
obs_id	20965	Observation id
title	Measure spin-up of NGC 300 ULX-1	Proposal title
observer	Georgios Vasilopoulos	Principal investigator
object	NGC 300 ULX-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	13.770417	Observer's specified target RA [deg]
dec_targ	-37.695556	Observer's specified target Dec [deg]
ra_nom	13.7520597962	Nominal RA [deg]
dec_nom	-37.759578691401	Nominal Dec [deg]
roll_nom	259.1461212196	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10070.235536575	Sum of GTIs [s]
livetime	9133.1720810587	Livetime [s]
ontime7	10070.235536575	Sum of GTIs [s]
l2events	8296	Number of level 2 events



2 OBI

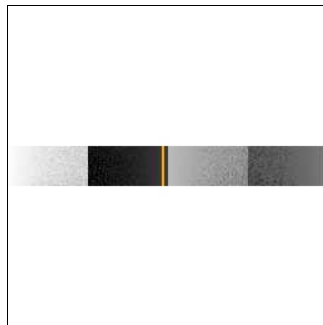
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	10070.235536575	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	10070.235536575	Sum of GTIs [s]
date	2020-10-24T15:39:28	Date and time of file creation	l1events	14986	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	14986
rejected events	6410
rejected %	42%

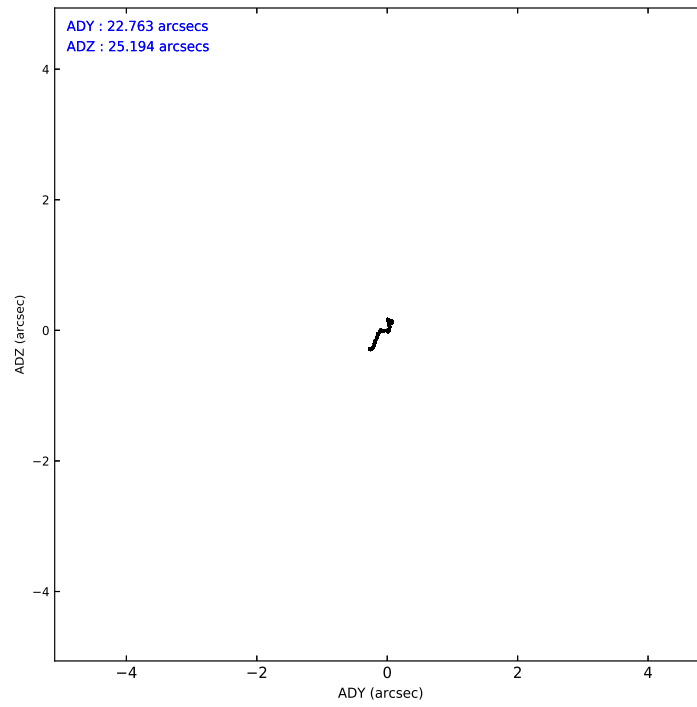
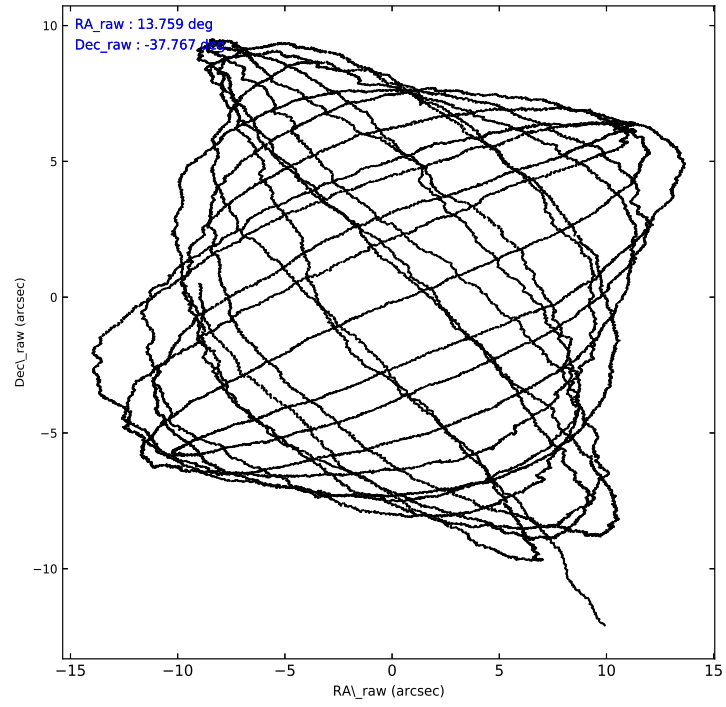
	ccd 7
grade 0 events	1298
	8%
grade 1 events	32
	0%
grade 2 events	1845
	12%
grade 3 events	1099
	7%
grade 4 events	1049
	6%
grade 5 events	1274
	8%
grade 6 events	3288
	21%
grade 7 events	5101
	34%

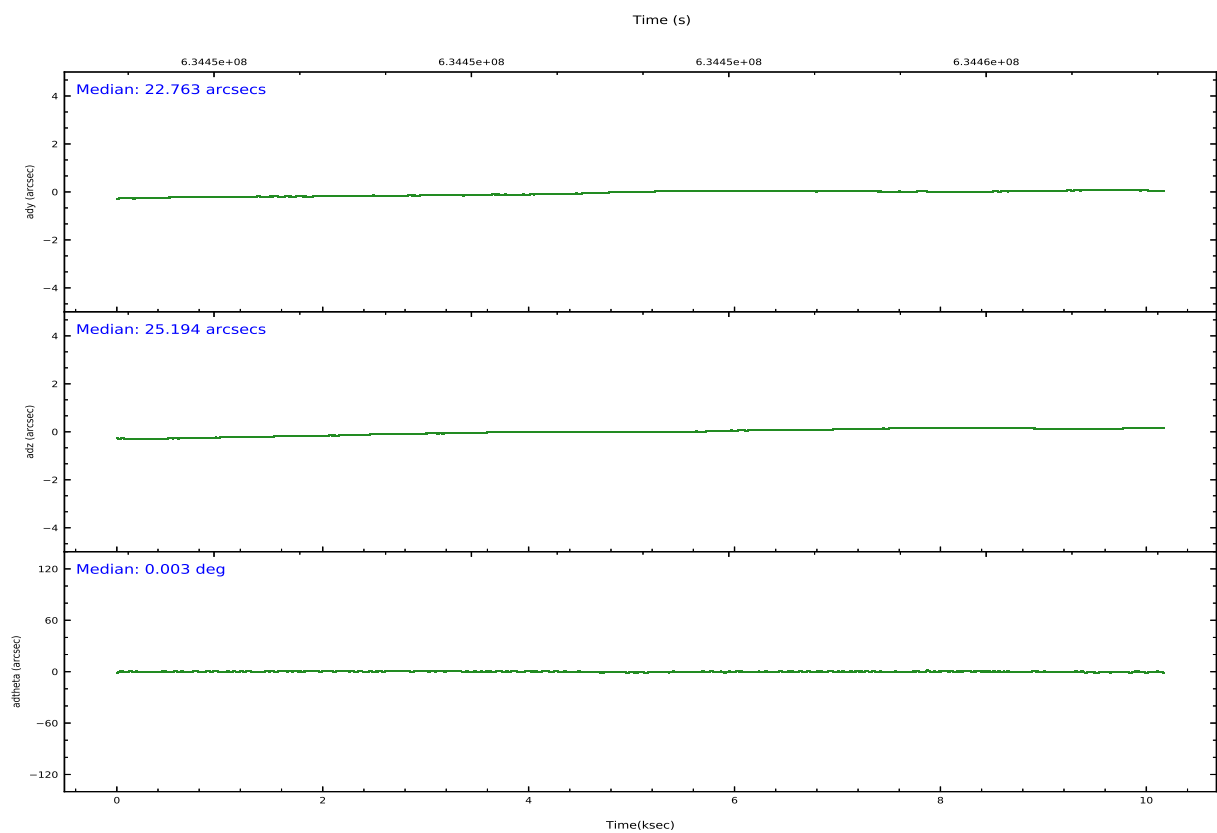
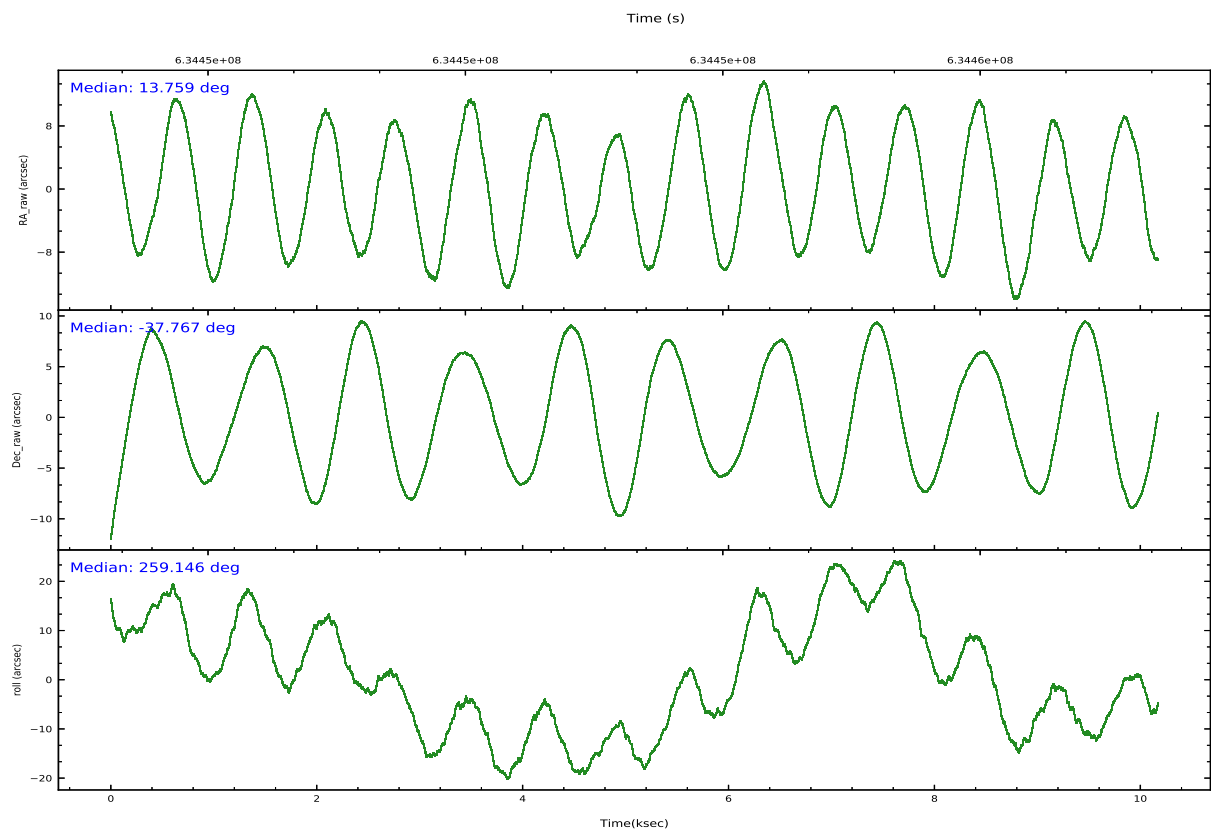
2.2 Compared Parameters

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	13.747638	13.7520597962
[deg] Pointing Dec	-37.741645	-37.759578691401
[deg] Pointing Roll	258.986059	259.1461212196
[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)	634446728.184000	634445860.0709
Observation start date	2018-02-08T03:10:59	2018-02-08T02:57:40
[s] Observation end time (MET)	634456728.184000	634457947.89661
Observation end date	2018-02-08T05:57:39	2018-02-08T06:19:07
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	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

2.3 Aspect



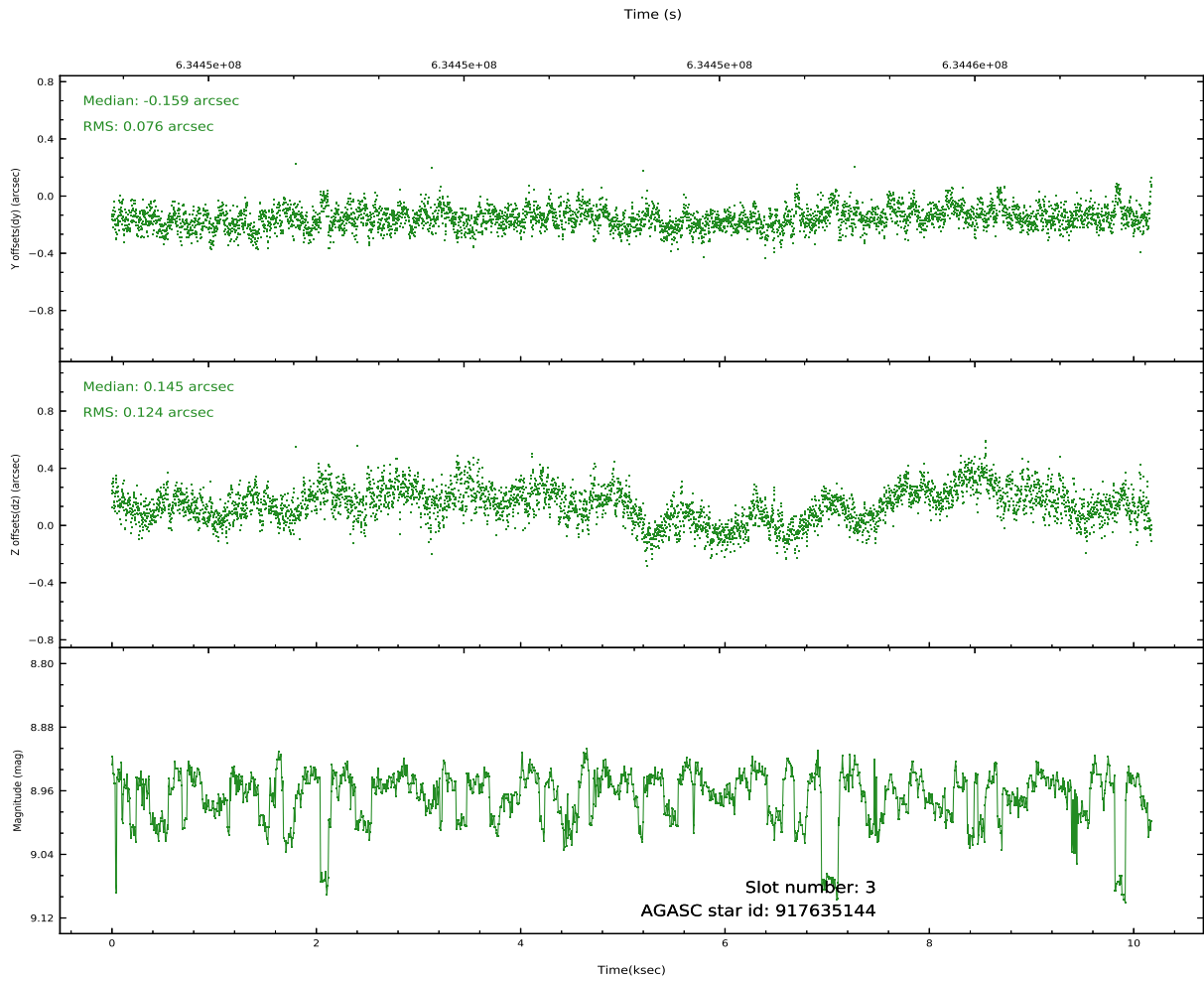
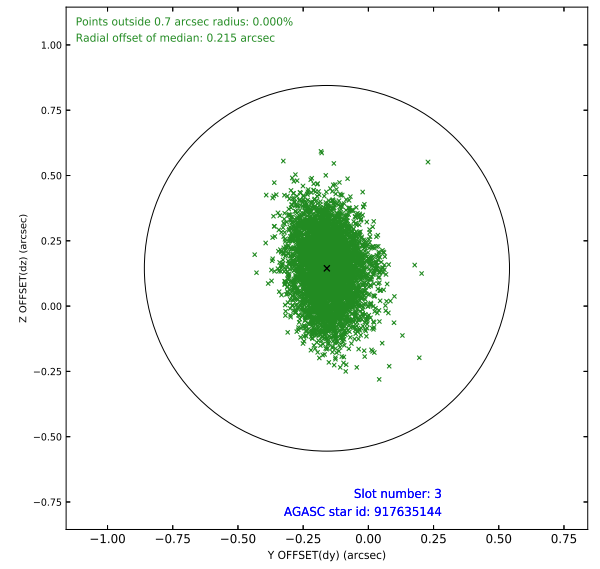
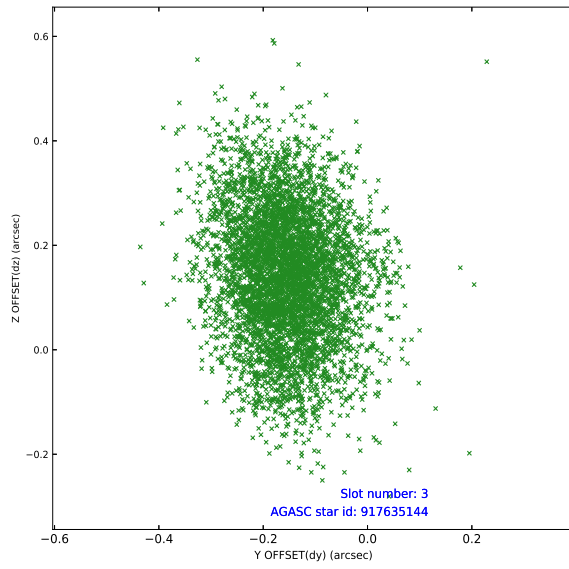


Slot Statistics

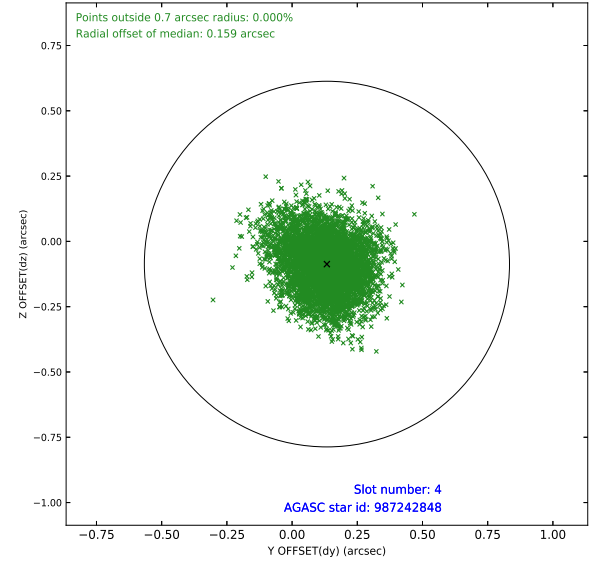
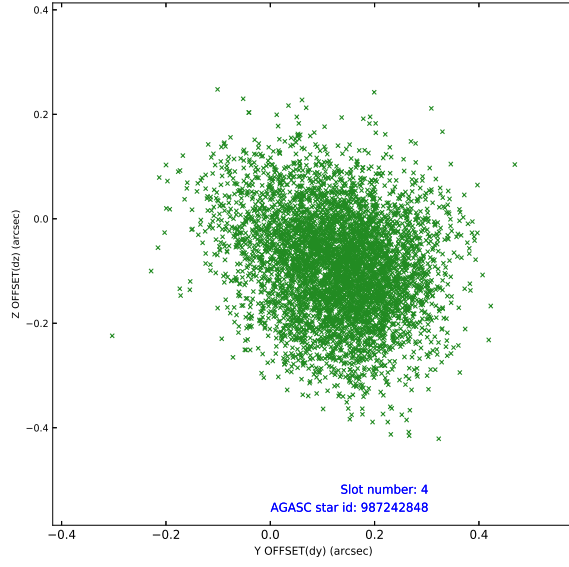
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.02	2482	1.000	0.140	-0.004	0.007	0.012	0.000000	0.000000	-775.96	-1746
1	FID		ACIS-S-4	7.11	2482	1.000	0.080	-0.066	0.006	0.011	0.000000	0.000000	2137.25	160
2	FID		ACIS-S-5	7.15	2482	1.000	-0.250	0.078	0.007	0.012	0.000000	0.000000	-1828.30	155
3	GUIDE	used	917635144	8.96	4959	1.000	-0.159	0.145	0.153	0.256	14.182427	-37.216967	-2088.57	864
4	GUIDE	used	987242848	8.61	4956	1.000	0.134	-0.087	0.147	0.244	13.175530	-38.138116	1716.88	-1315
5	GUIDE	used	987366320	8.78	4960	1.000	0.085	0.037	0.158	0.267	13.580534	-38.230952	1820.80	-127
6	GUIDE	used	987367984	8.69	4960	1.000	-0.043	-0.076	0.150	0.240	13.861833	-37.523988	-828.54	172
7	GUIDE	used	987369936	9.39	4957	1.000	-0.022	-0.006	0.209	0.368	14.172536	-38.438809	2239.03	1655

2.4 Star Slots

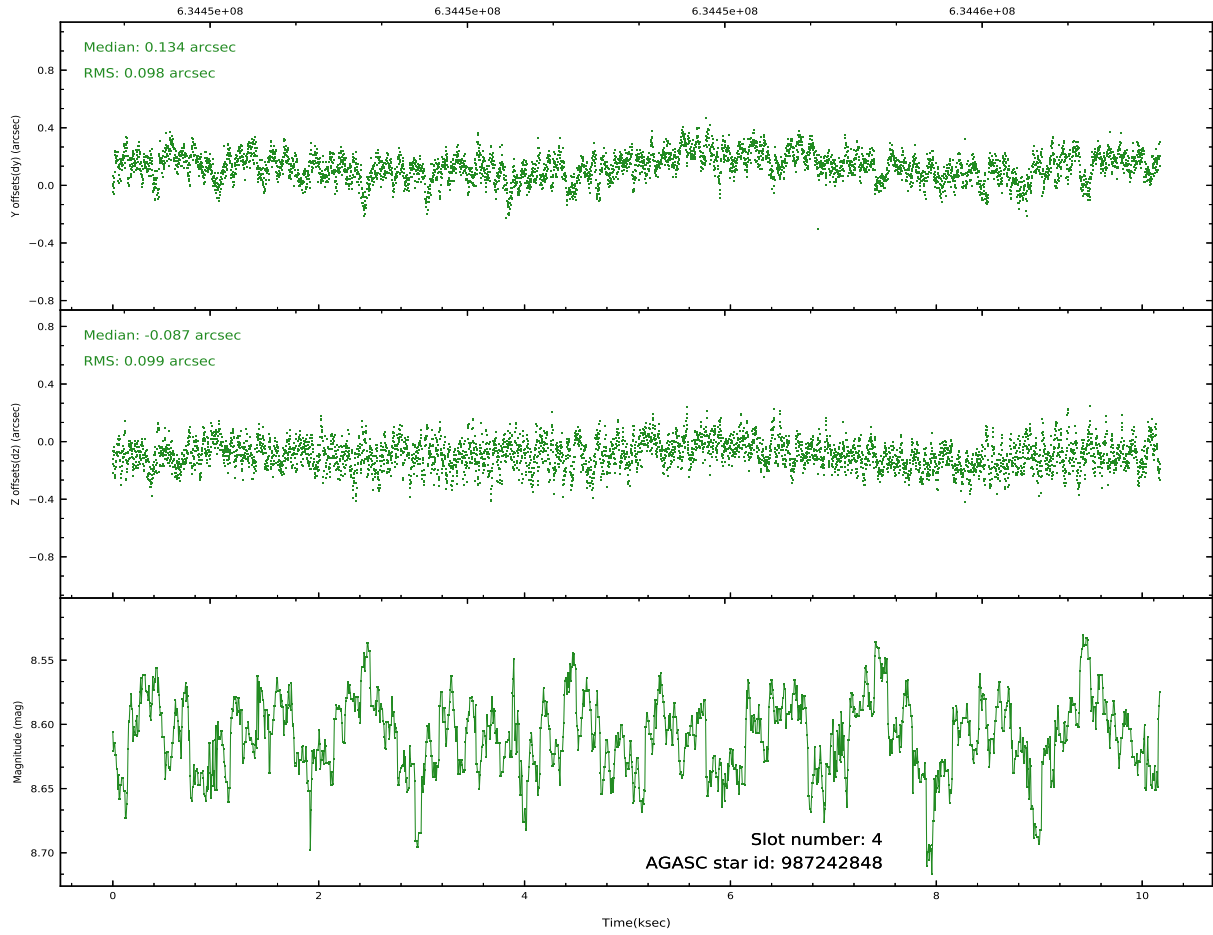
2.4.1 Slot 3



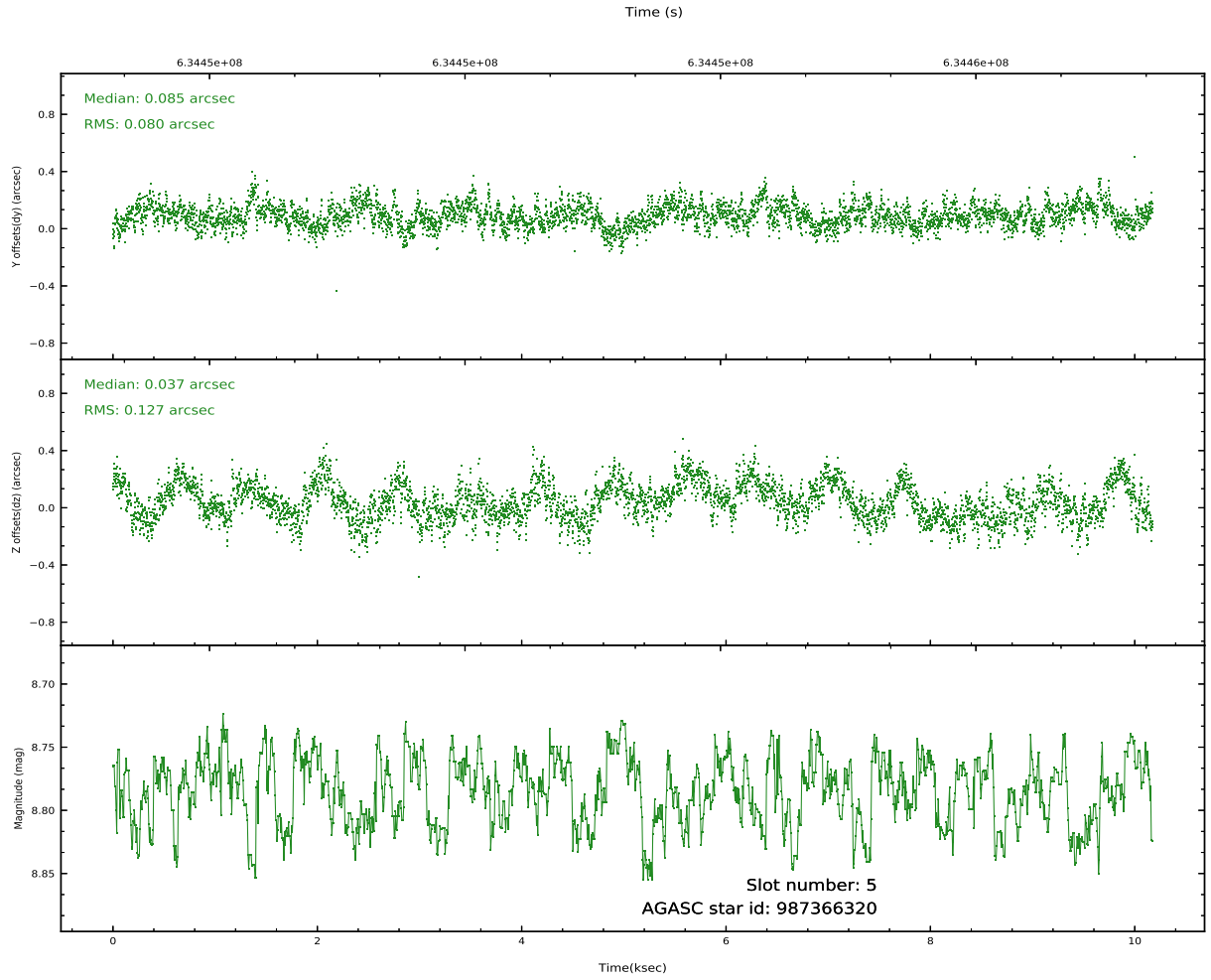
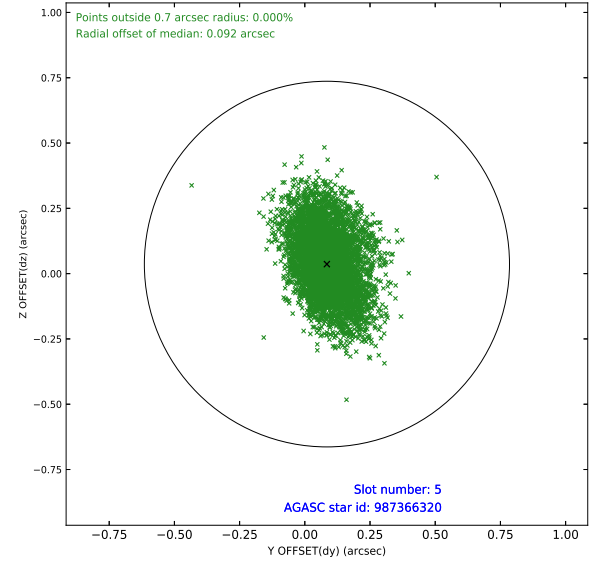
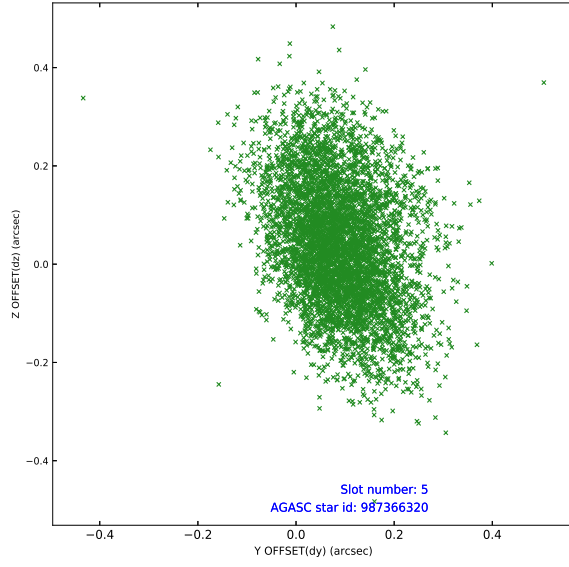
2.4.2 Slot 4



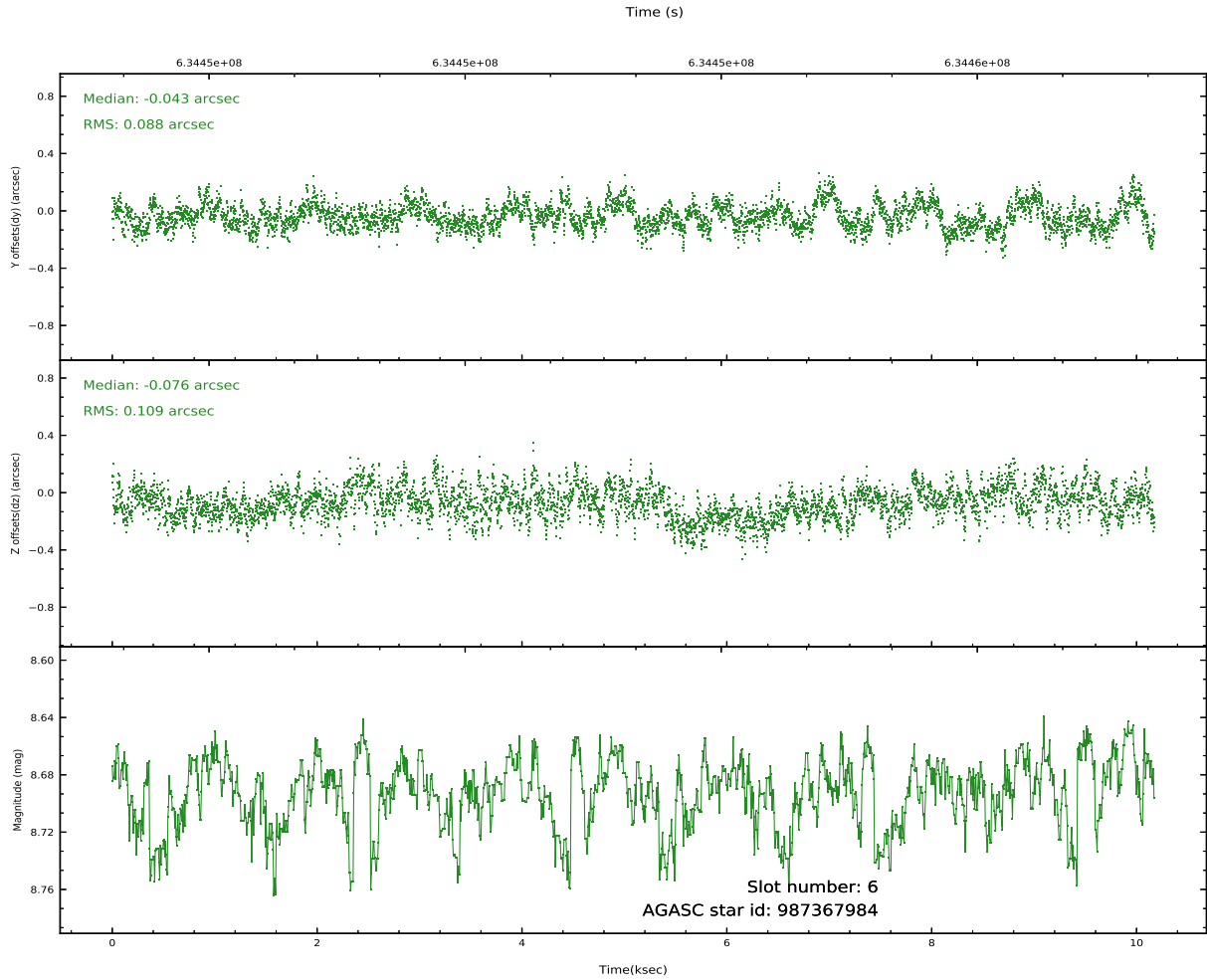
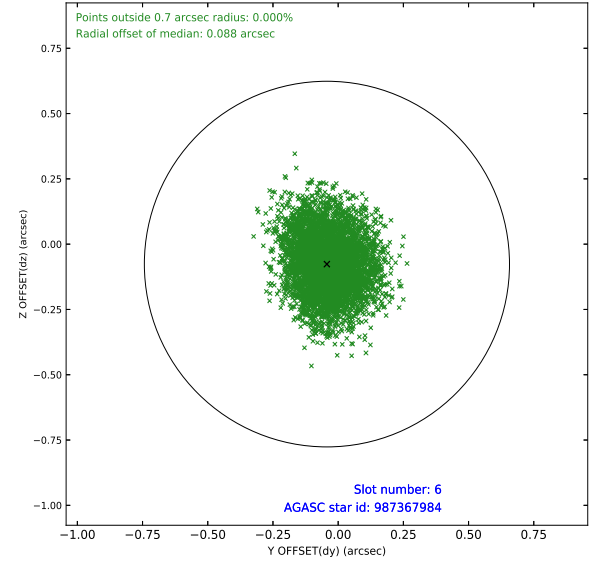
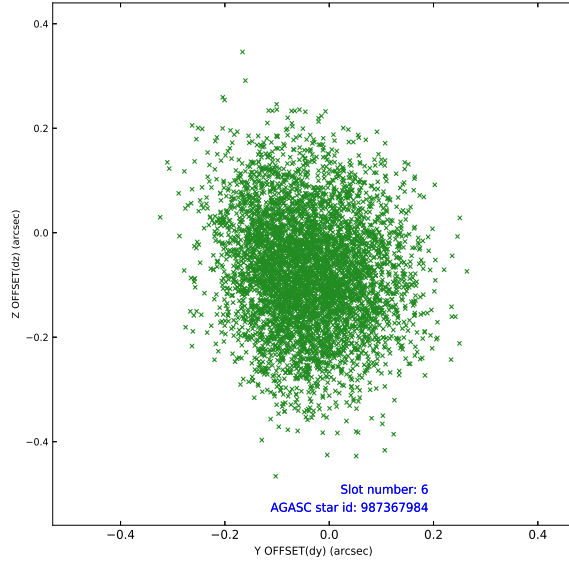
Time (s)



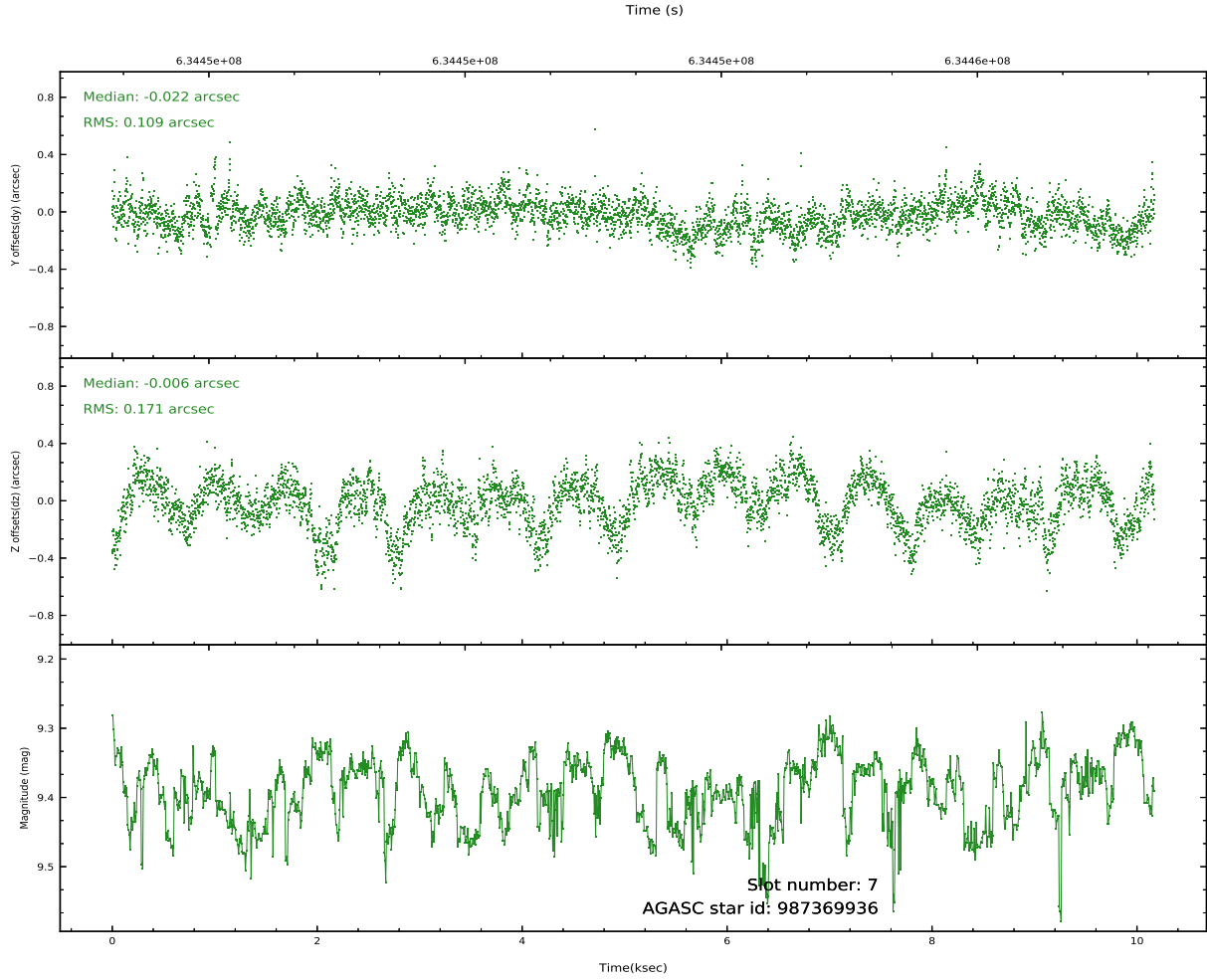
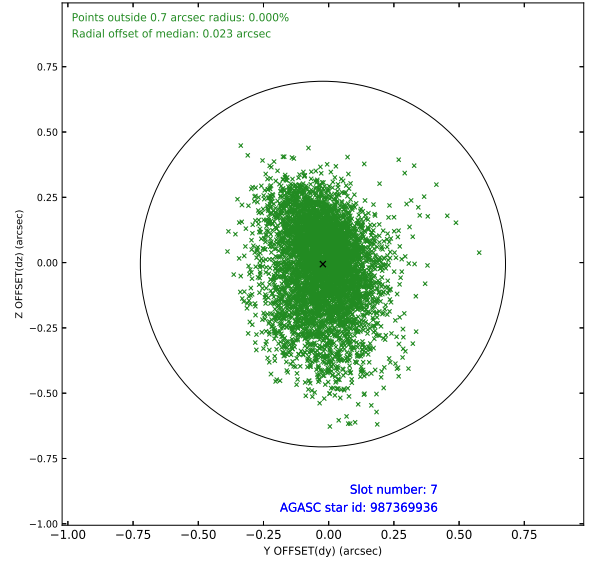
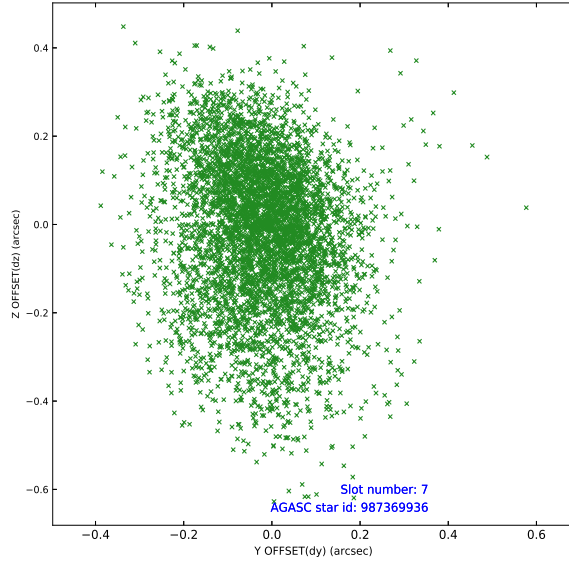
2.4.3 Slot 5



2.4.4 Slot 6

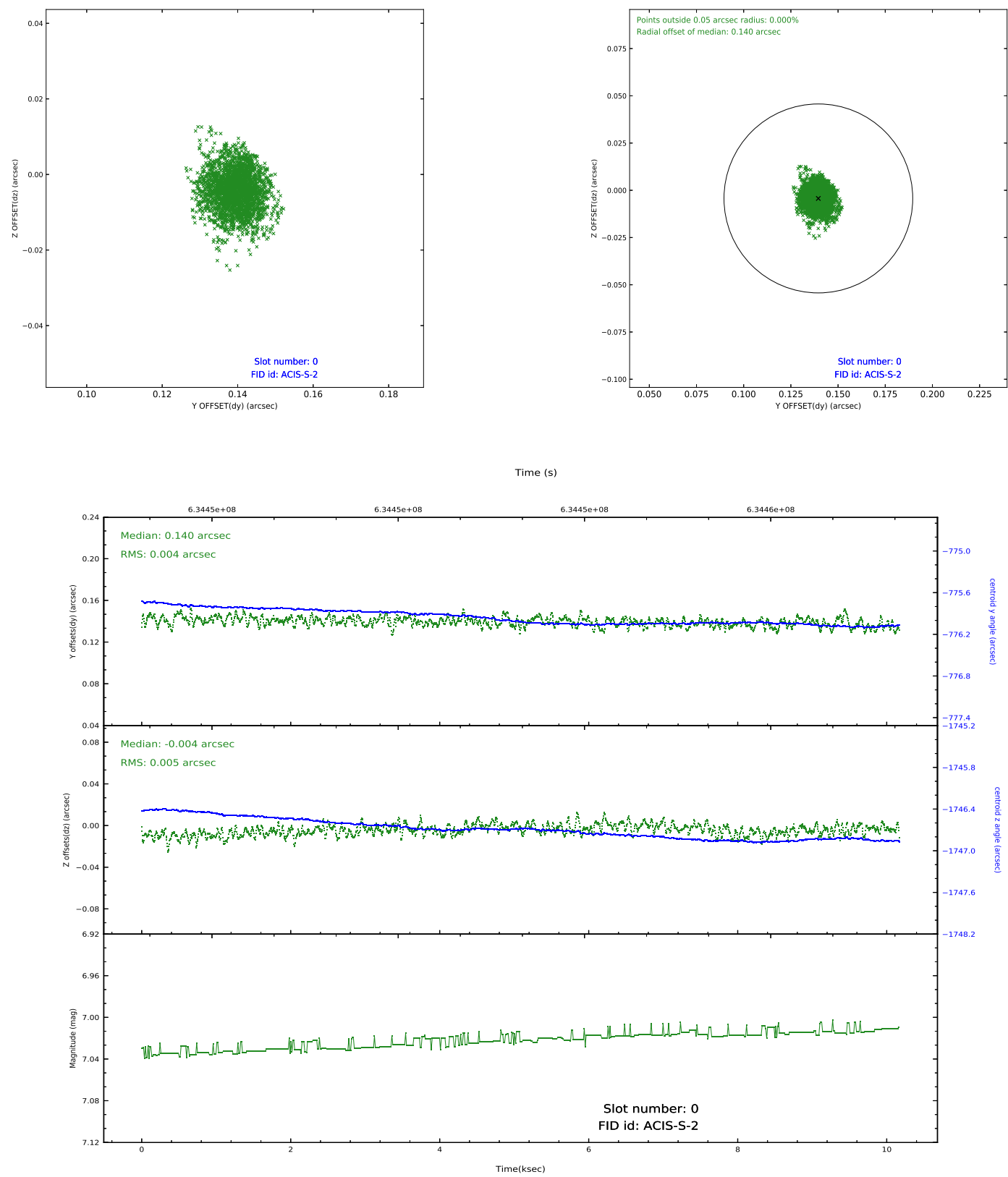


2.4.5 Slot 7

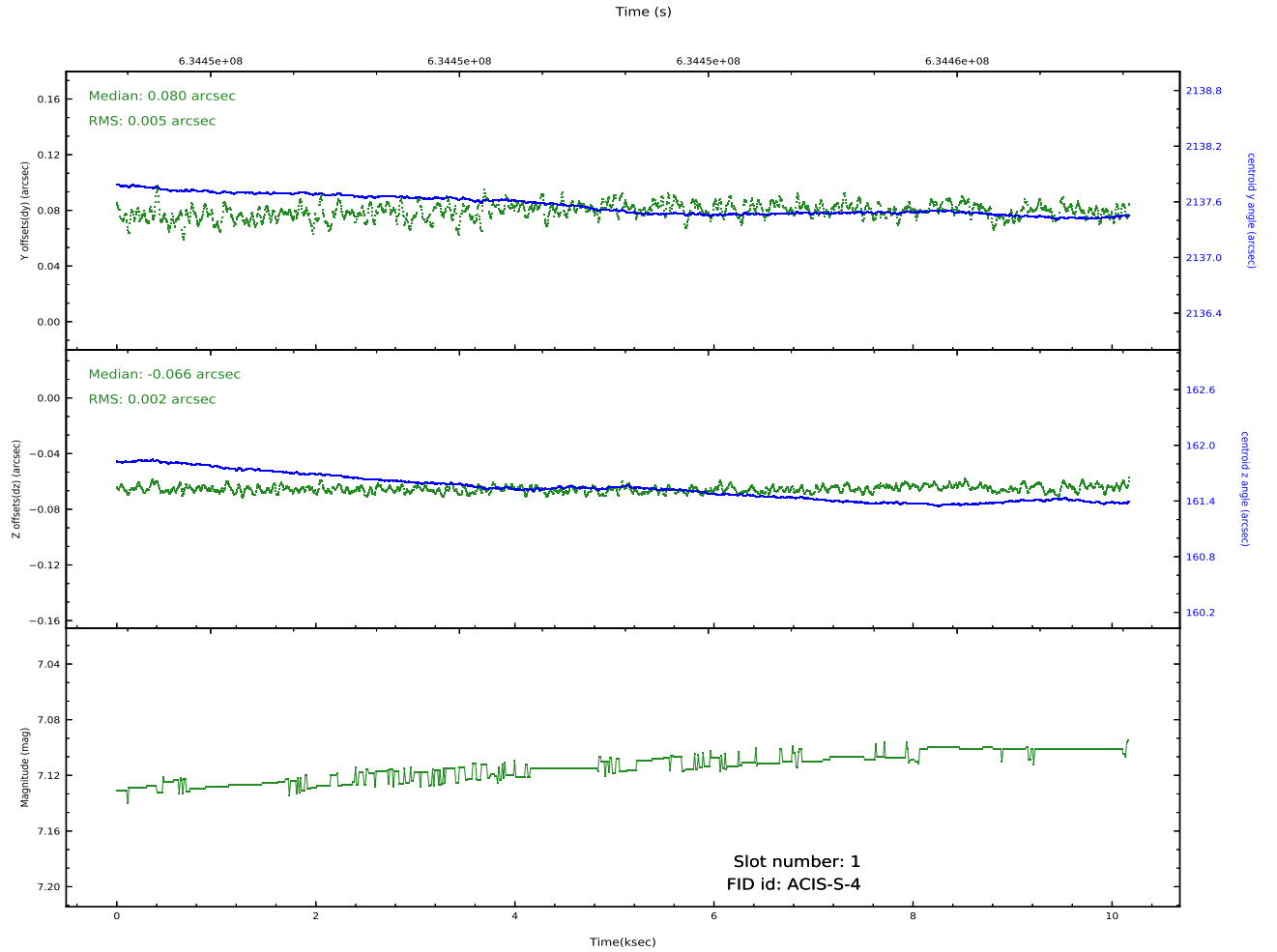
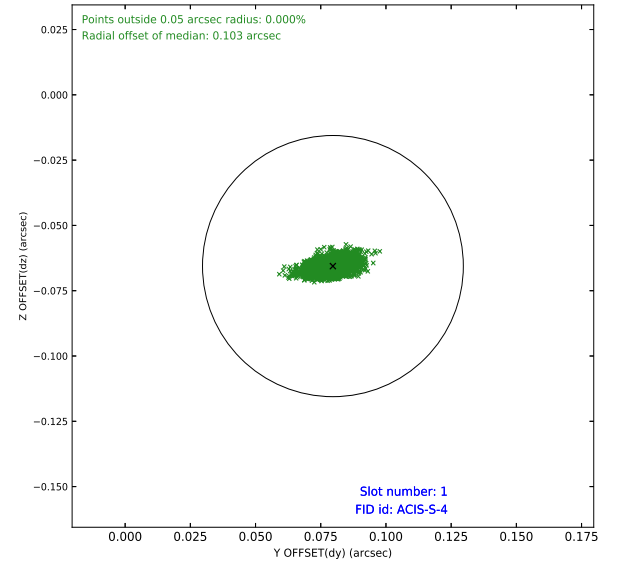
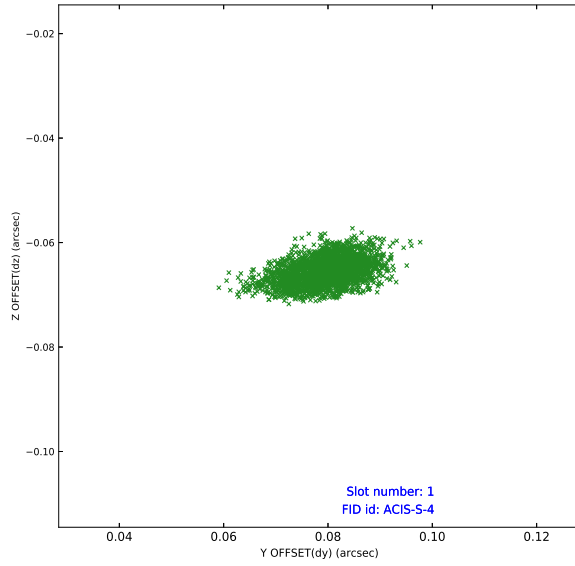


2.5 FID Slots

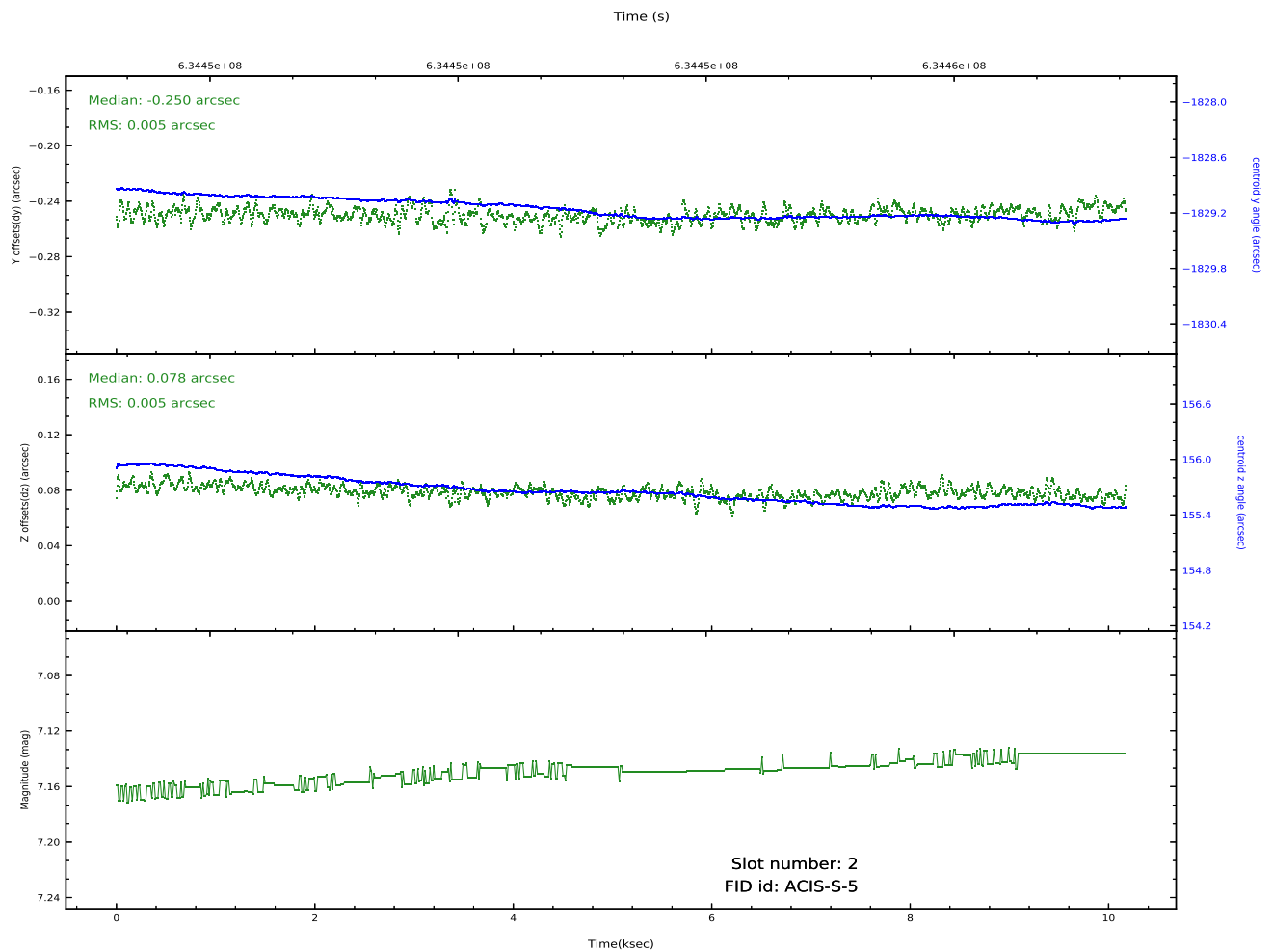
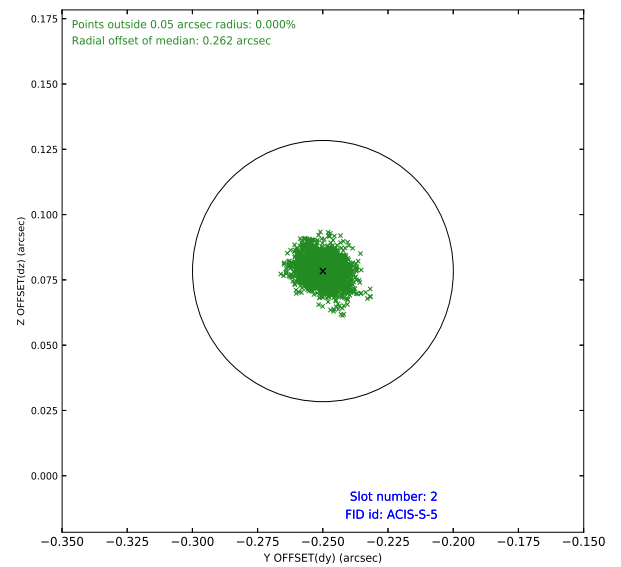
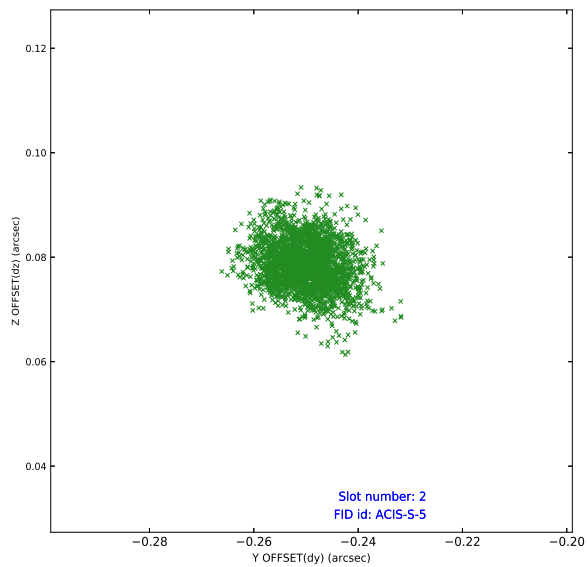
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.070235536695

A.2 Comments