

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20344 - L2 Version 2
Chandra X-Ray Center

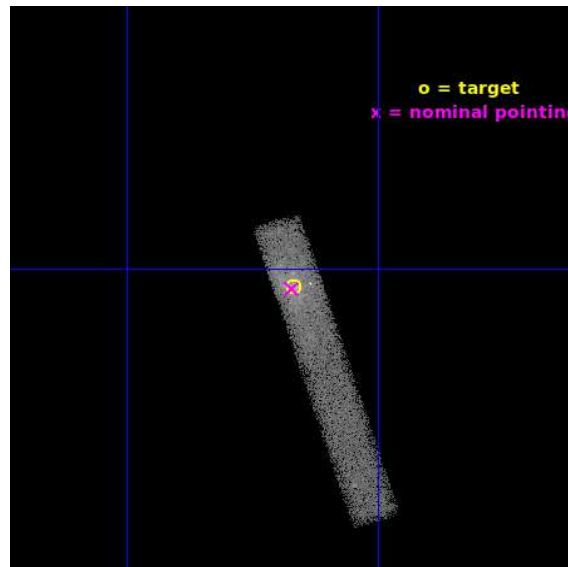
L2 Processing Date : Oct 25 2020

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

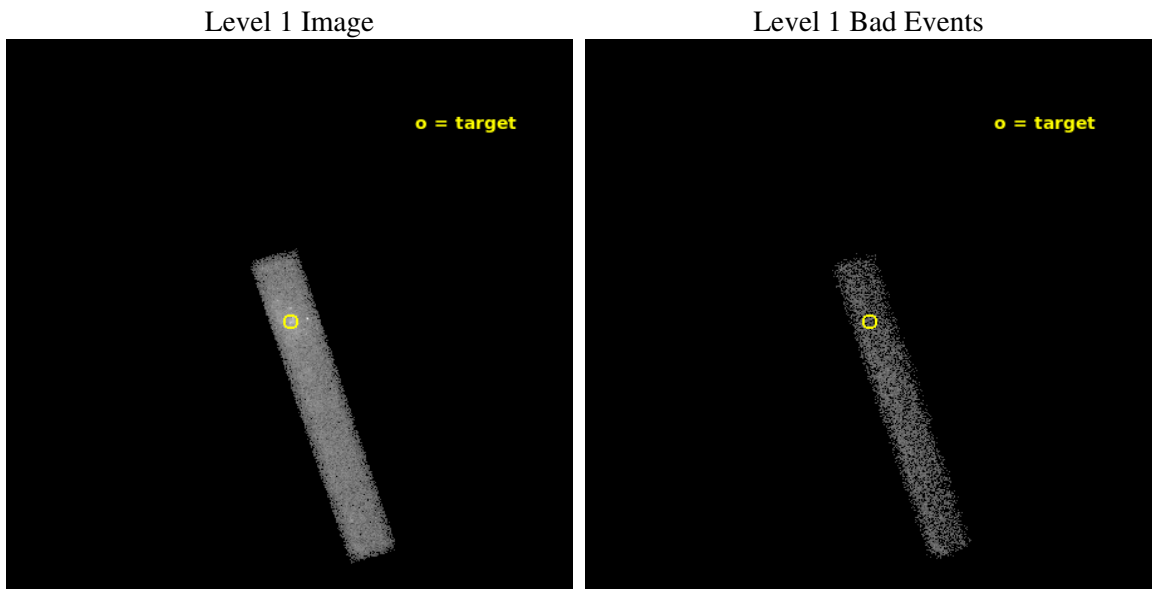
seq_num	601410	Sequence number
obs_id	20344	Observation id
title	Action at the Horizon: Chandra/EHT Observations of Sgr A*	Proposal
observer	Joey Neilsen	Principal investigator
object	Sgr A*	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.007833	Observer's specified target Dec [deg]
ra_nom	266.41765744267	Nominal RA [deg]
dec_nom	-29.008883853334	Nominal Dec [deg]
roll_nom	72.145747492411	Nominal Roll [deg]
revision	2	Processing version of data
ontime	32069.423532605	Sum of GTIs [s]
livetime	29085.274381104	Livetime [s]
ontime7	32069.423532605	Sum of GTIs [s]
l2events	34635	Number of level 2 events



2 OBI

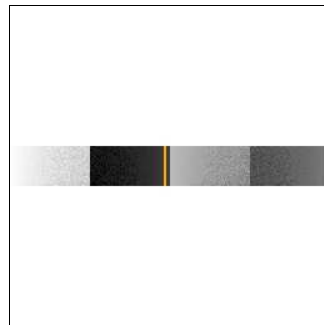
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	32000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	32069.423532605	Sum of GTIs [s]
caldbver	4.9.3	 	ontime7	32069.423532605	Sum of GTIs [s]
date	2020-10-25T14:33:14	Date and time of file creation	l1events	57024	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

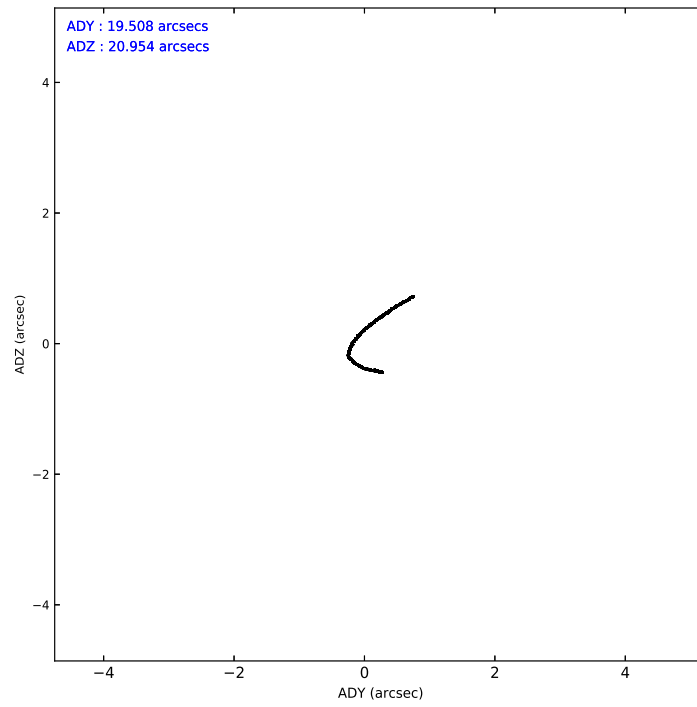
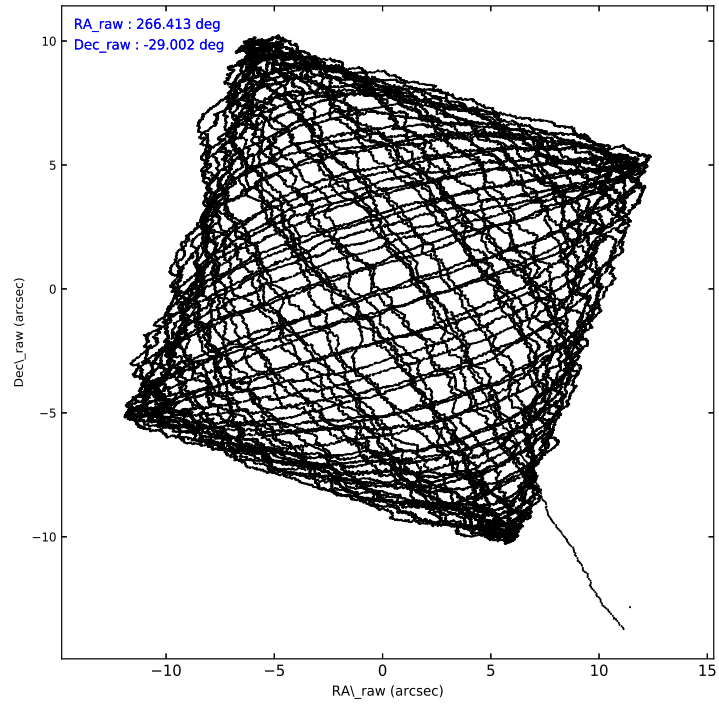
	ccd 7
level 1 events	57024
rejected events	21289
rejected %	37%

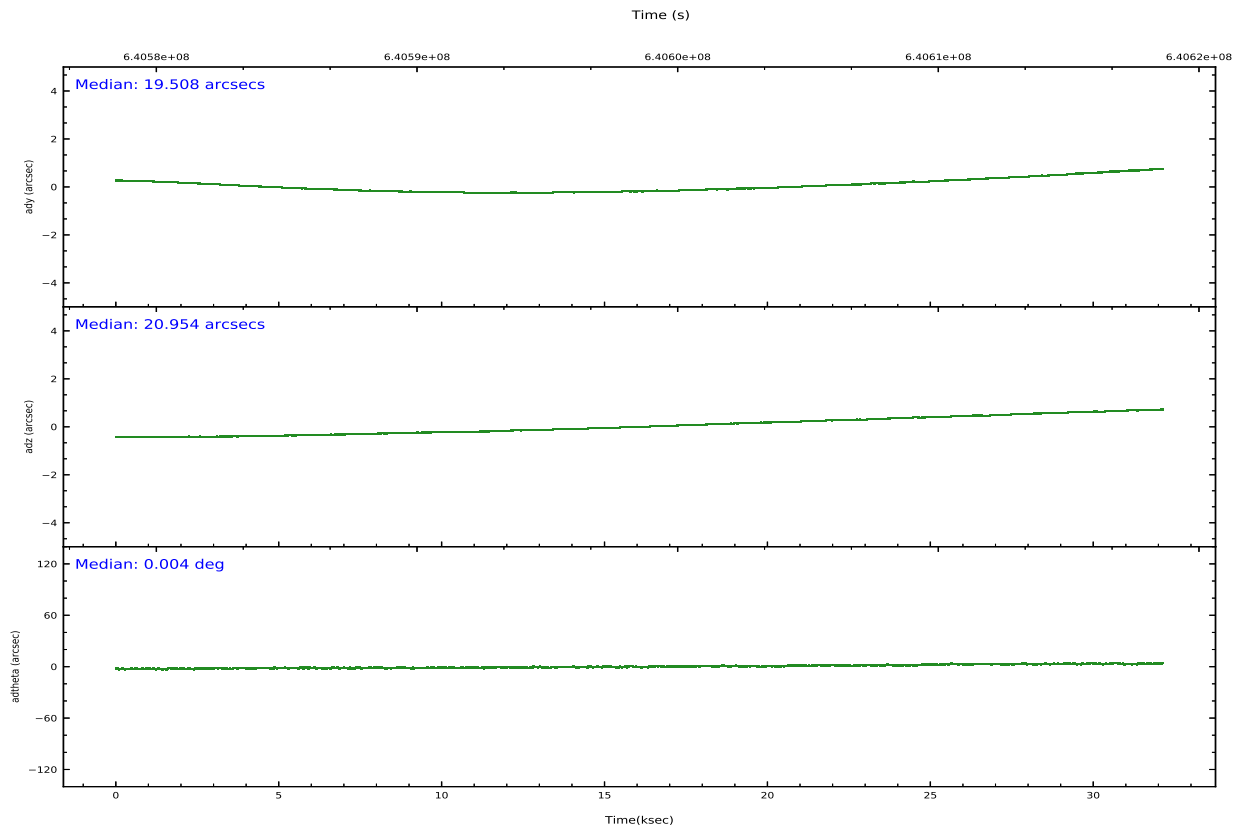
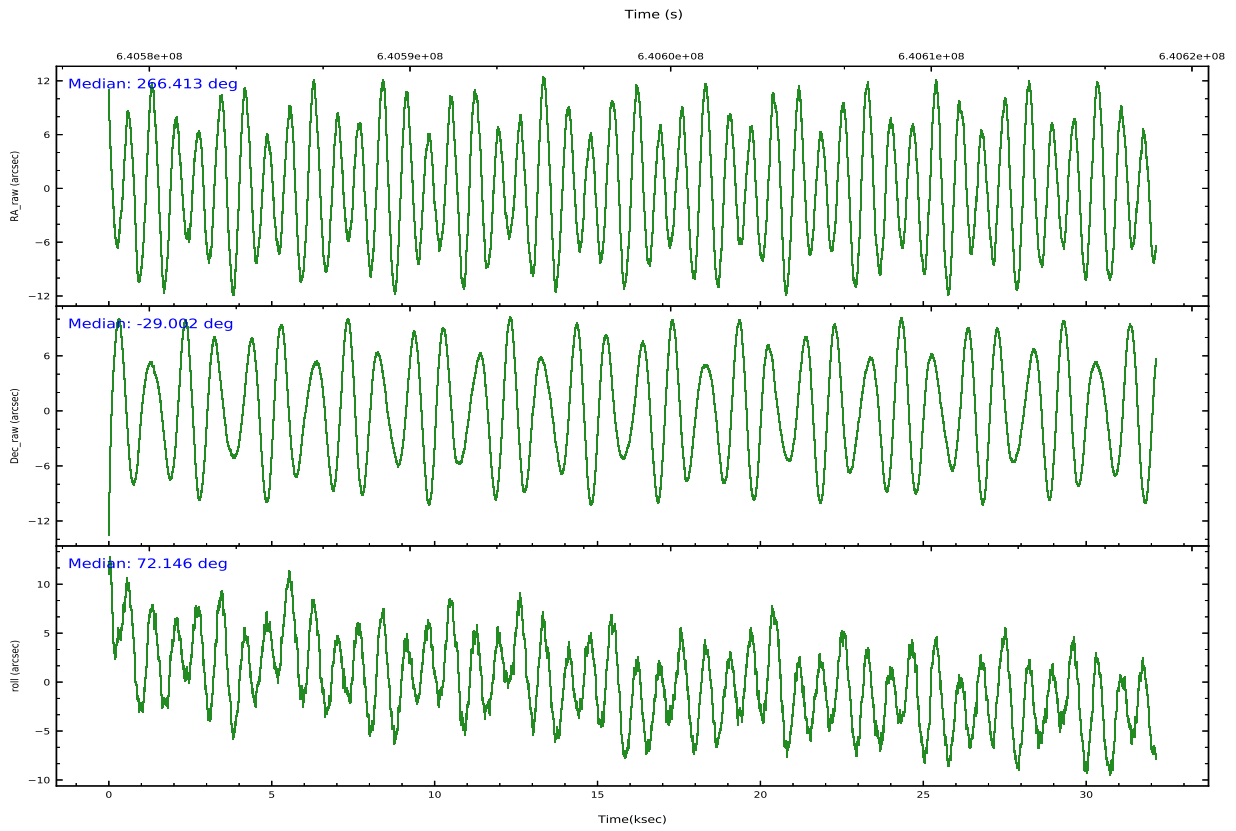
	ccd 7
grade 0 events	5223
	9%
grade 1 events	74
	0%
grade 2 events	7435
	13%
grade 3 events	4241
	7%
grade 4 events	4243
	7%
grade 5 events	4186
	7%
grade 6 events	14593
	25%
grade 7 events	17029
	29%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	266.420073	266.41765744267	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-29.028394	-29.008883853334	Subarray start row	449	449
[deg] Pointing Roll	72.001657	72.145747492411	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	640582900.184000	640581464.82021			
Observation start date	2018-04-20T03:40:31	2018-04-20T03:17:44			
[s] Observation end time (MET)	640614900.184000	640616373.75977			
Observation end date	2018-04-20T12:33:51	2018-04-20T12:59:33			
Read mode	TIMED	TIMED			

2.3 Aspect





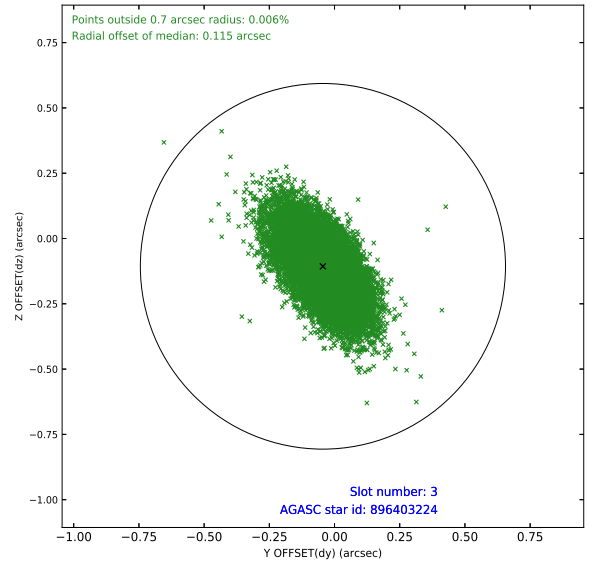
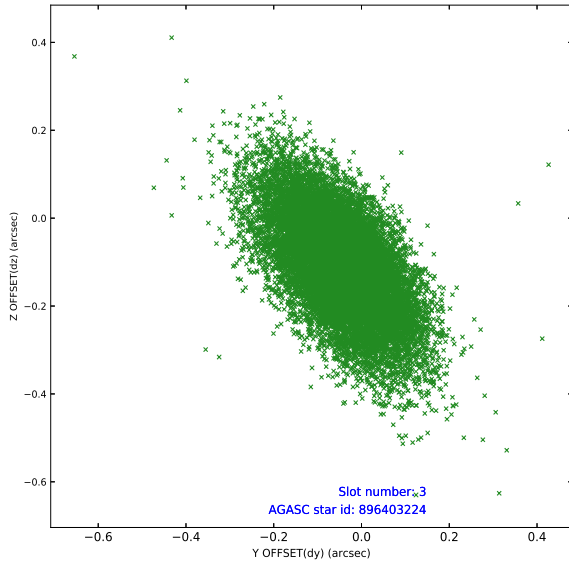
Slot Statistics

slot	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	7841	1.000	0.102	-0.117	0.019	0.030	0.000000	0.000000	-772.83	-1742
1	FID		ACIS-S-4	7.22	7840	1.000	0.141	-0.018	0.015	0.052	0.000000	0.000000	2140.73	165
2	FID		ACIS-S-5	7.21	7840	1.000	-0.270	0.144	0.018	0.028	0.000000	0.000000	-1825.69	160
3	GUIDE	used	896403224	8.24	15672	1.000	-0.044	-0.106	0.141	0.254	265.612825	-29.438915	-2196.11	1947
4	GUIDE	used	896534664	8.18	15675	1.000	-0.178	-0.195	0.138	0.249	266.405570	-28.407461	2110.87	734
5	GUIDE	used	896537776	7.51	15680	1.000	0.233	0.323	0.185	0.328	266.655684	-29.665673	-1954.13	-1409
6	GUIDE	used	896532680	8.74	15670	1.000	-0.081	-0.325	0.154	0.267	266.342632	-28.496299	1745.63	824
7	GUIDE	used	896538840	8.89	15597	1.000	0.076	0.297	0.159	0.277	266.920426	-28.466925	2407.60	-882

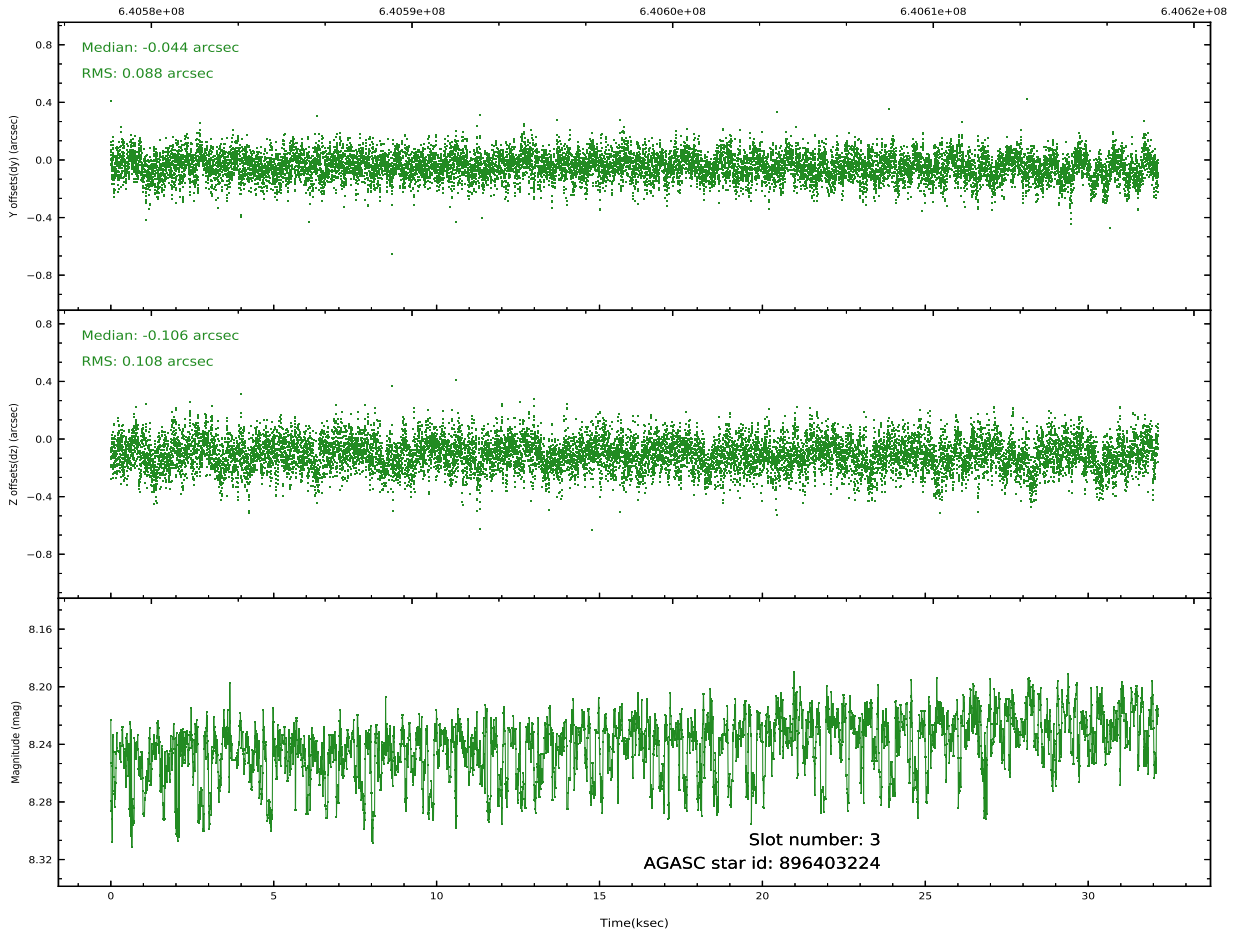
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2.4 Star Slots

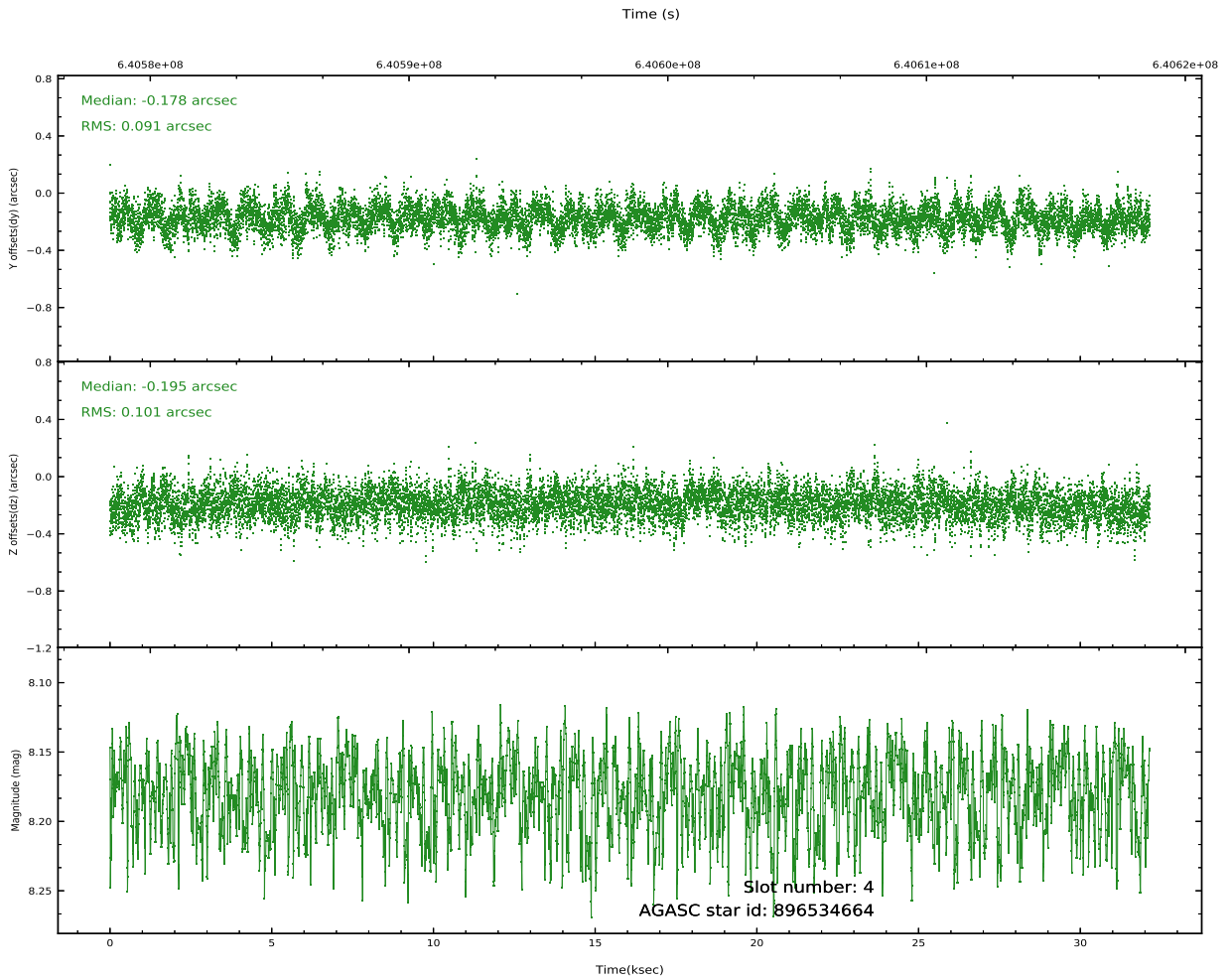
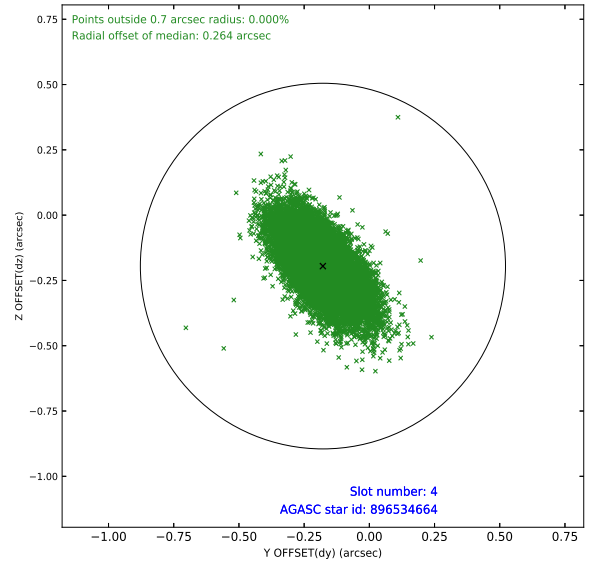
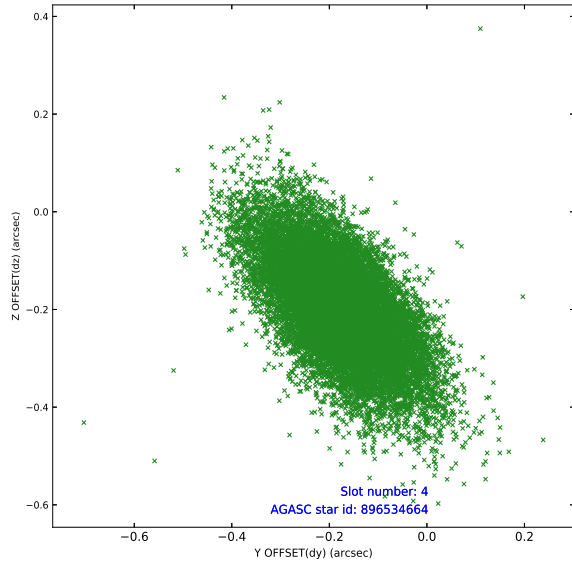
2.4.1 Slot 3



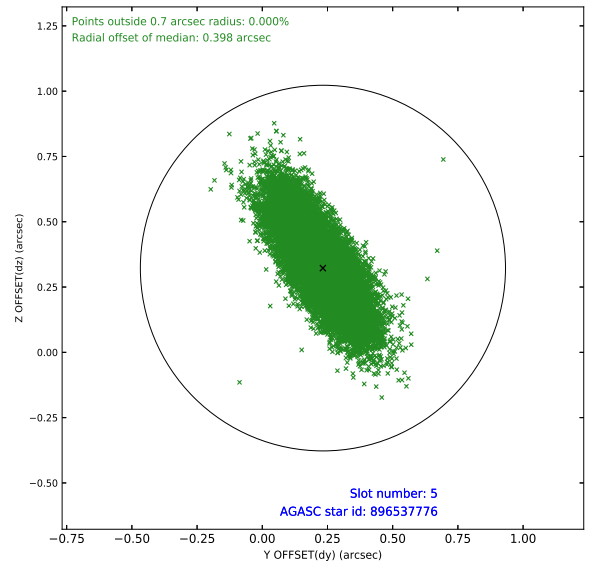
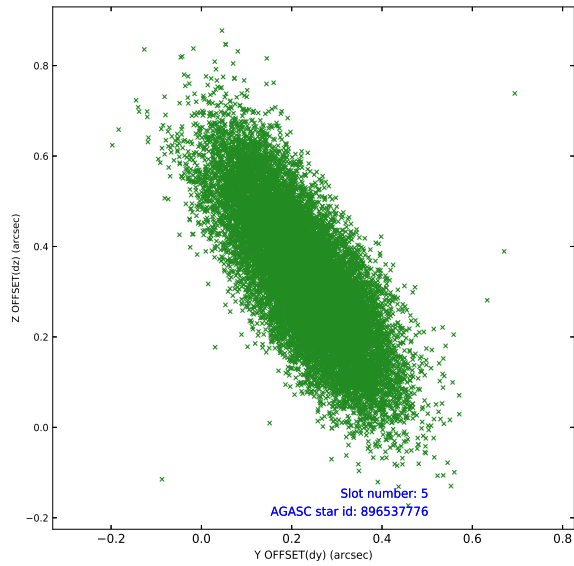
Time (s)



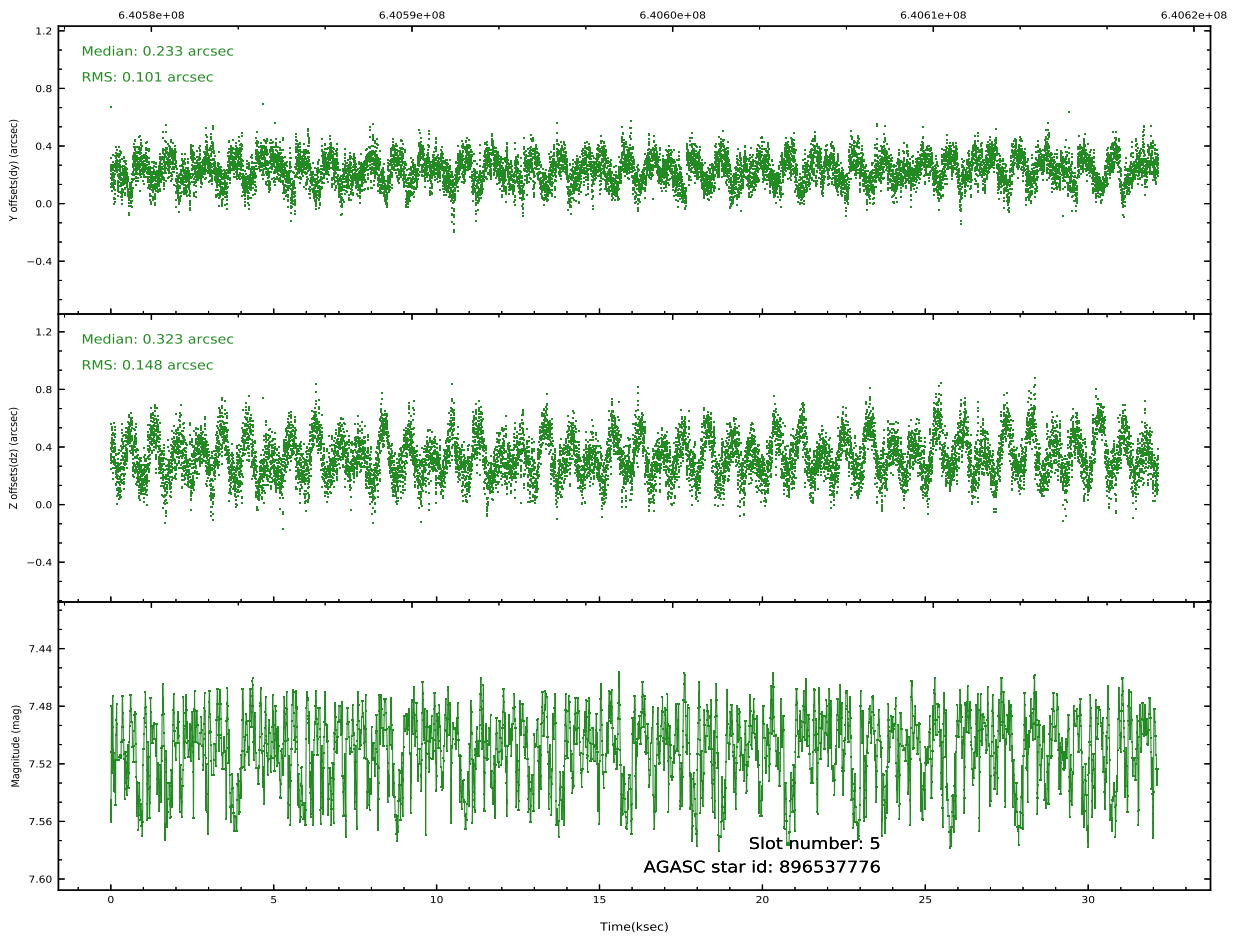
2.4.2 Slot 4



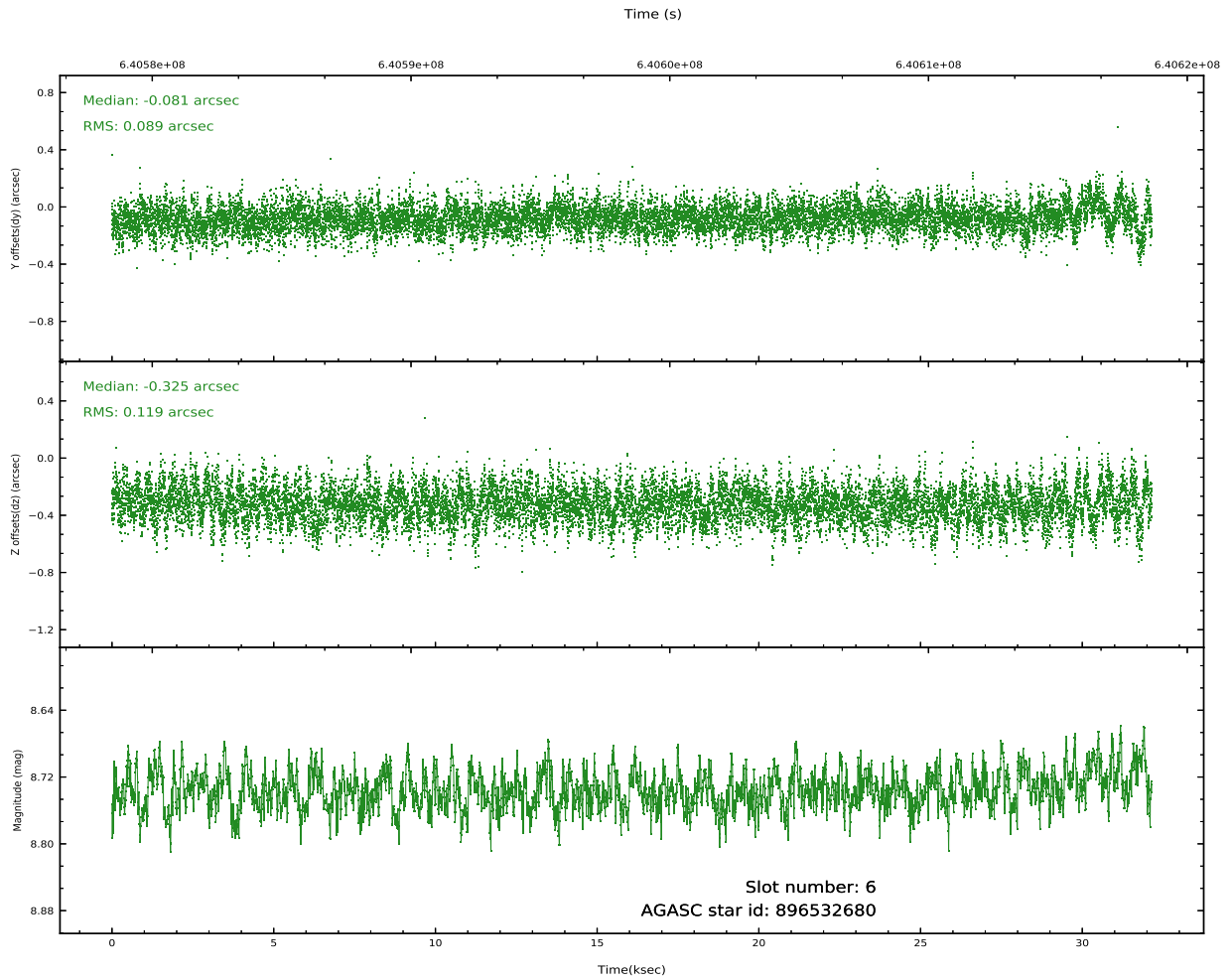
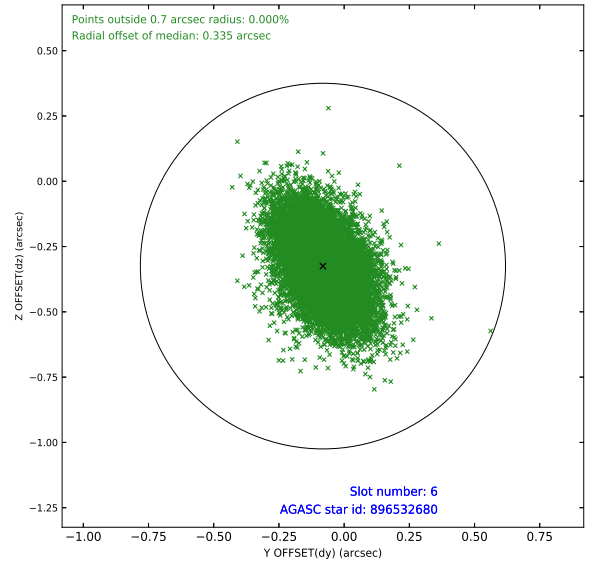
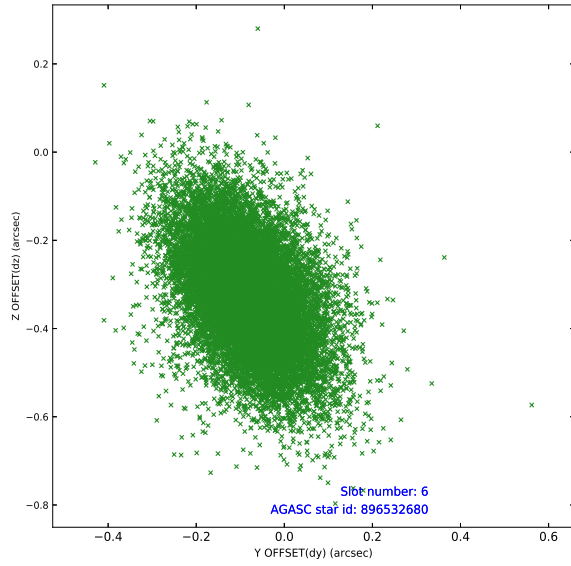
2.4.3 Slot 5



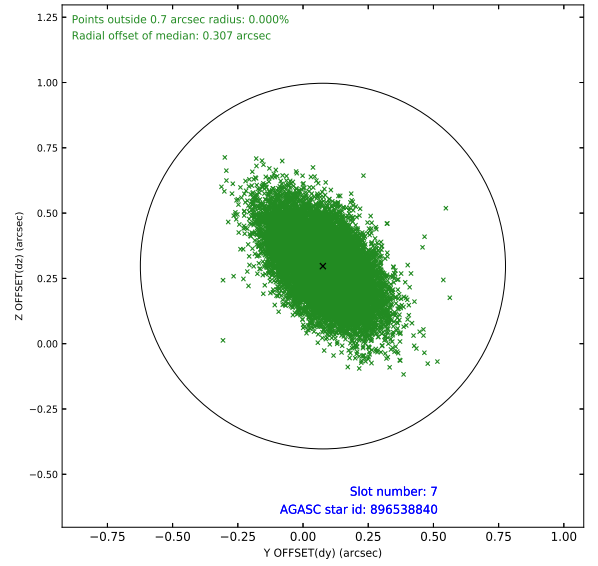
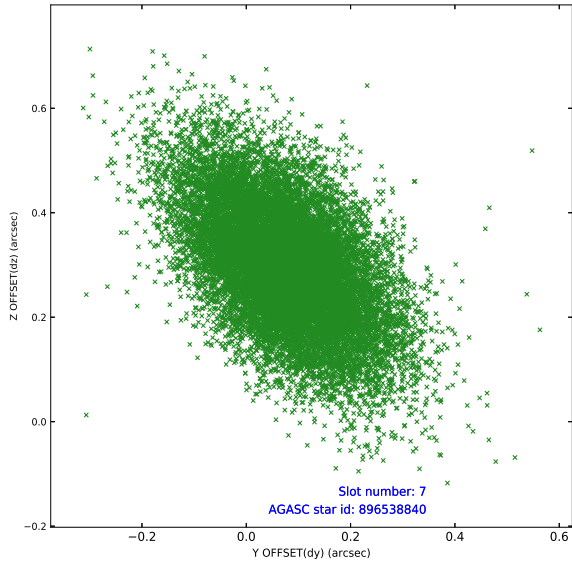
Time (s)



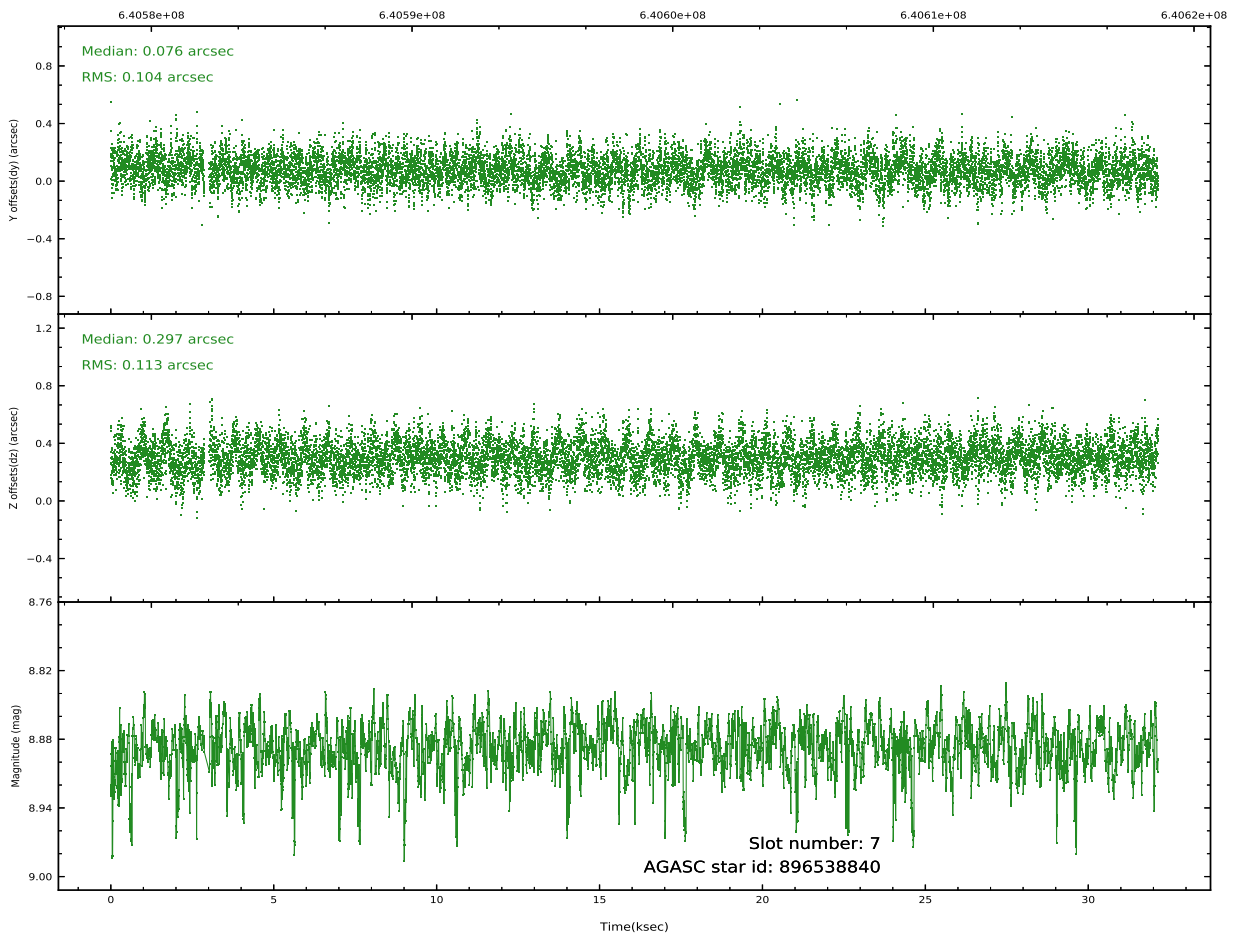
2.4.4 Slot 6



2.4.5 Slot 7

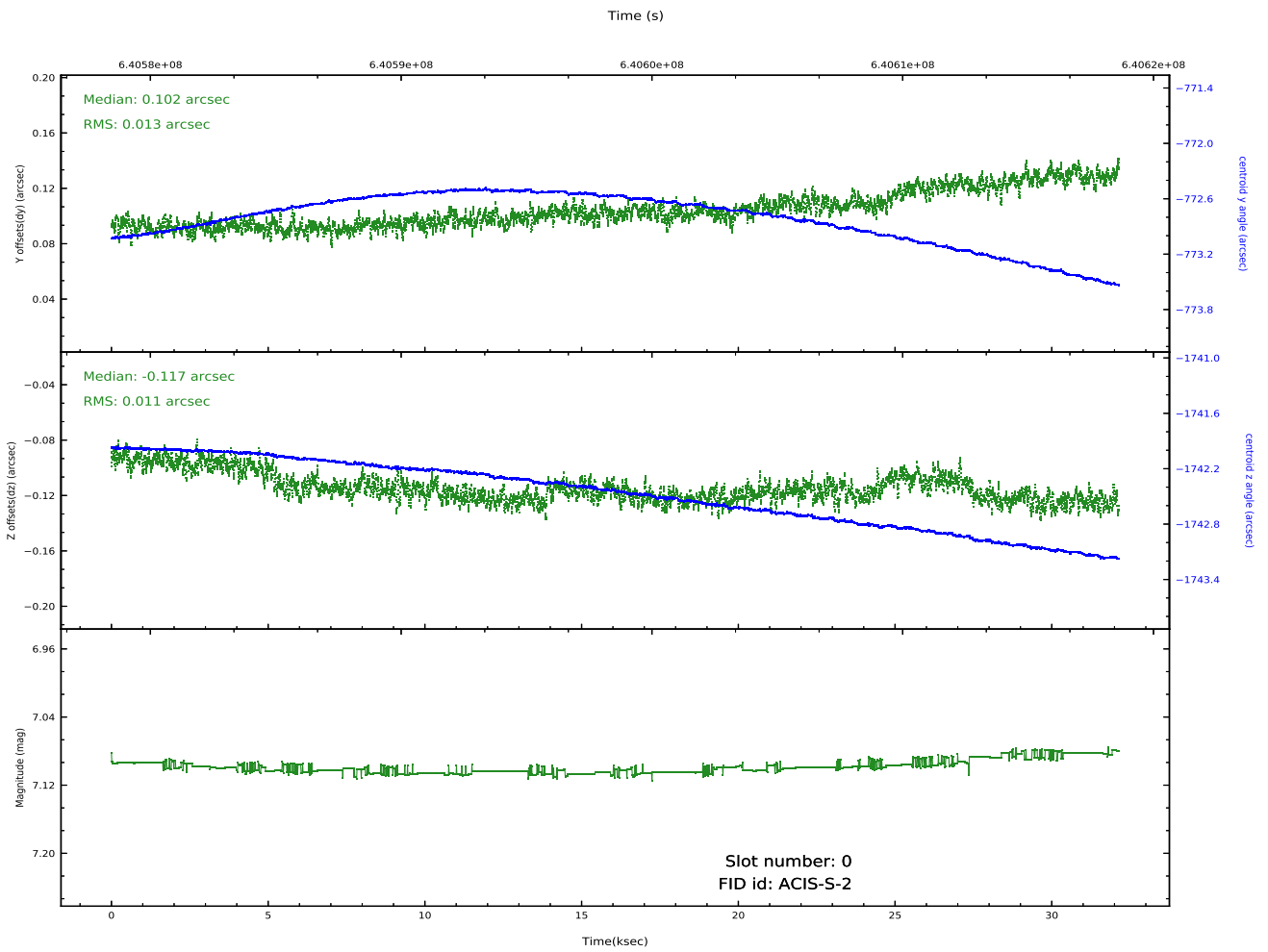
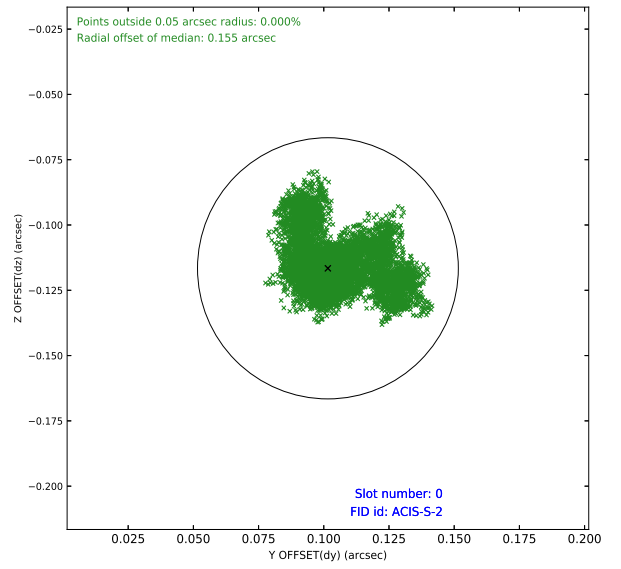
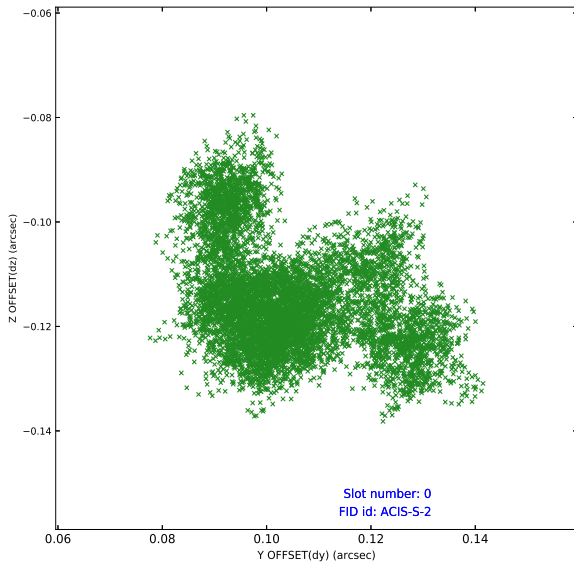


Time (s)

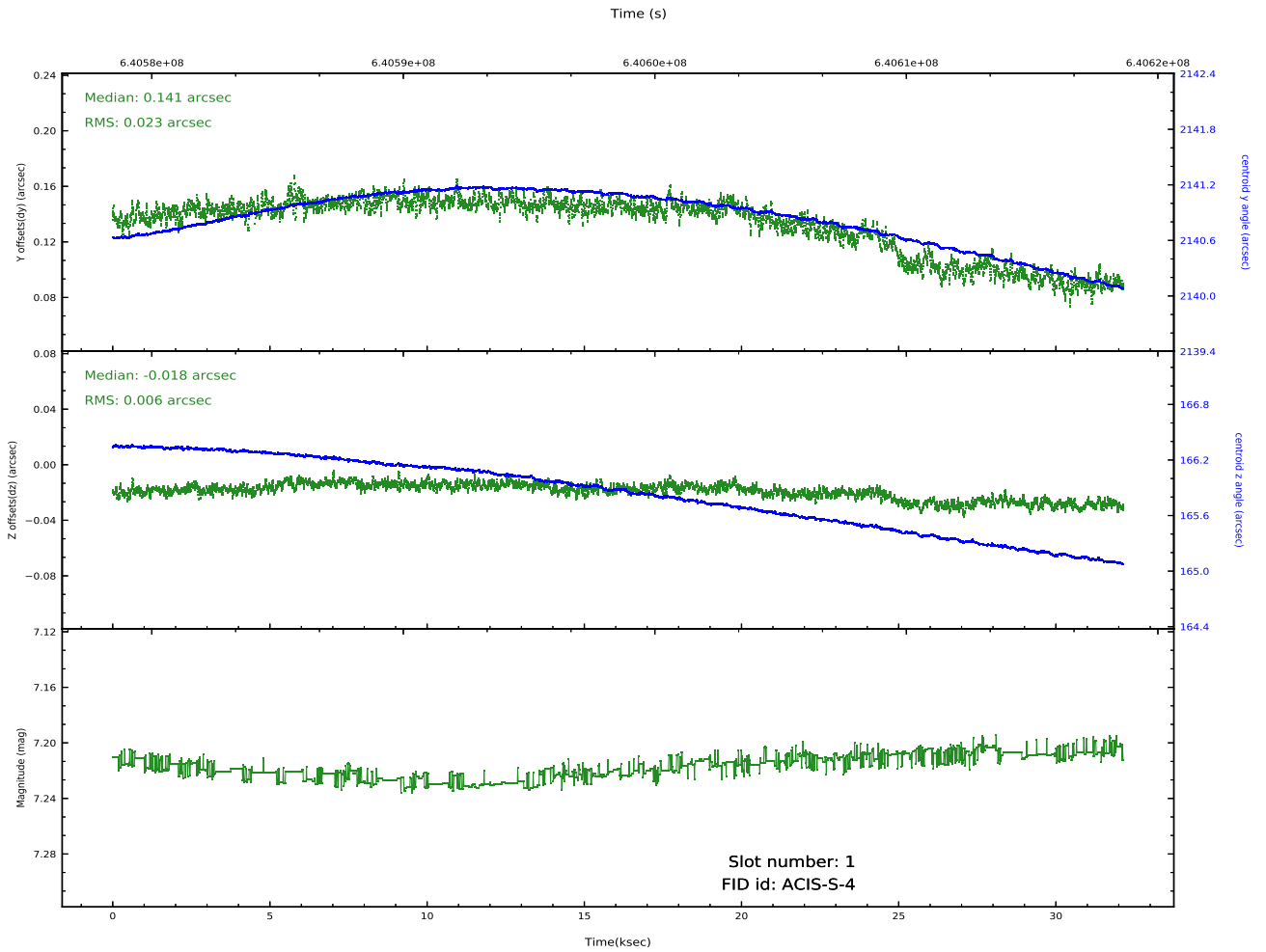
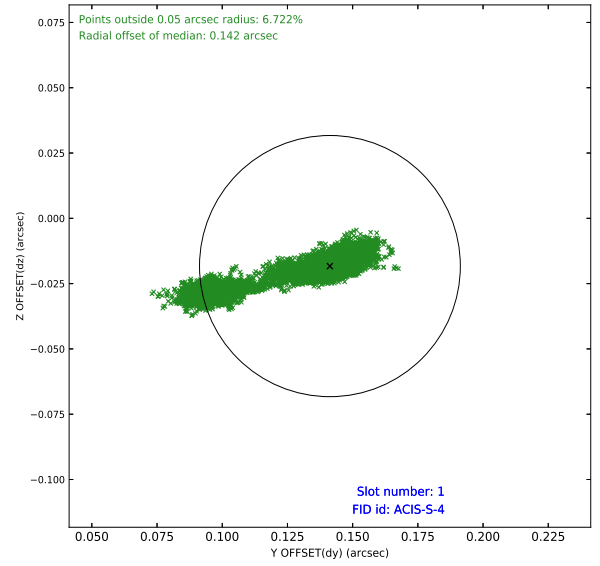
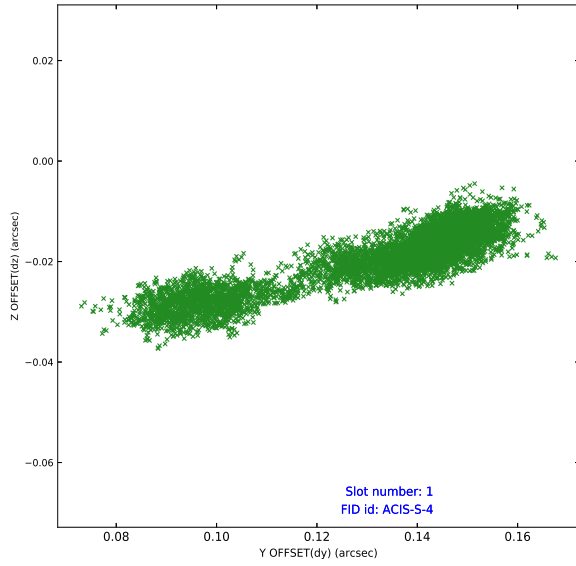


2.5 FID Slots

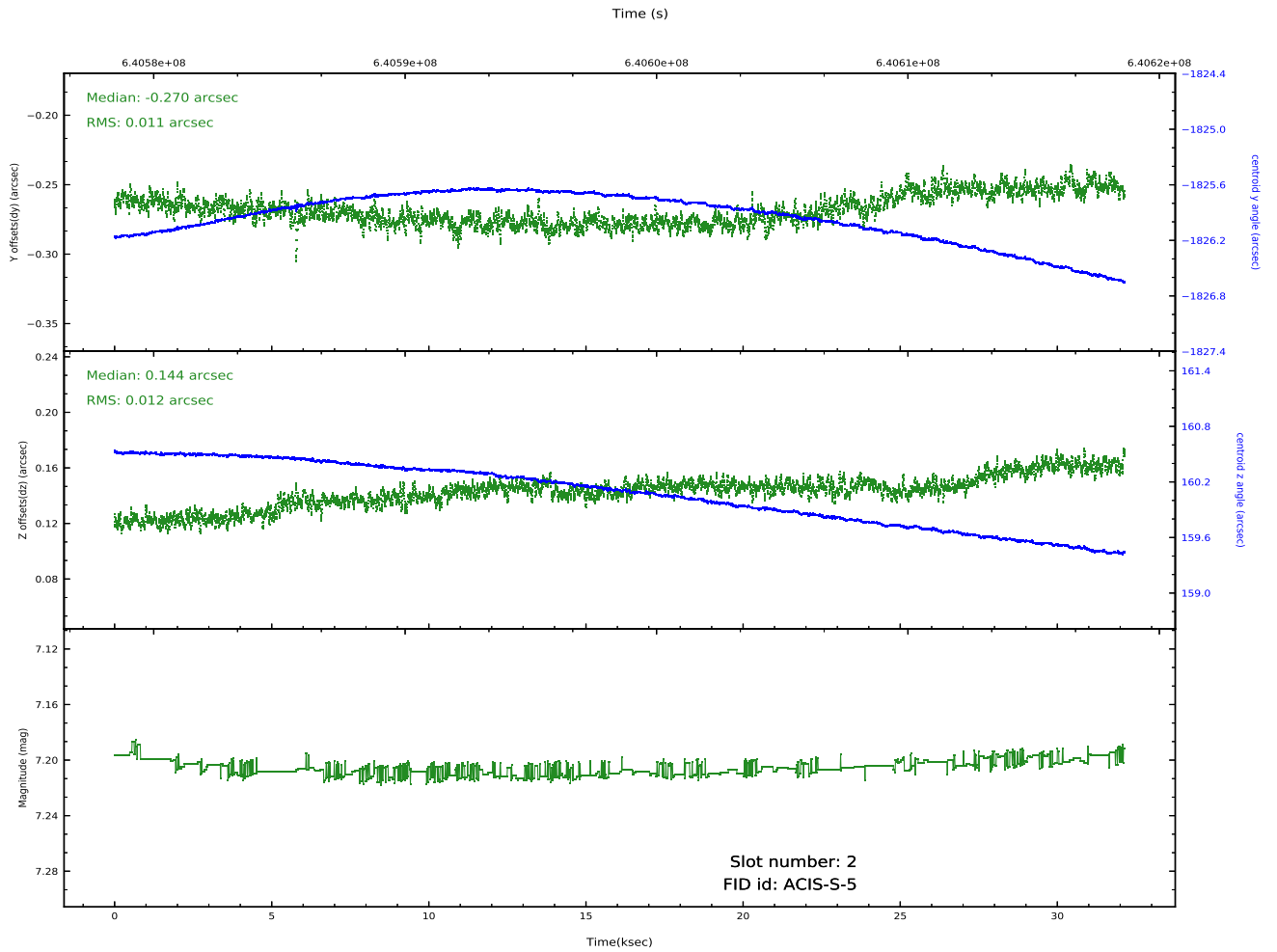
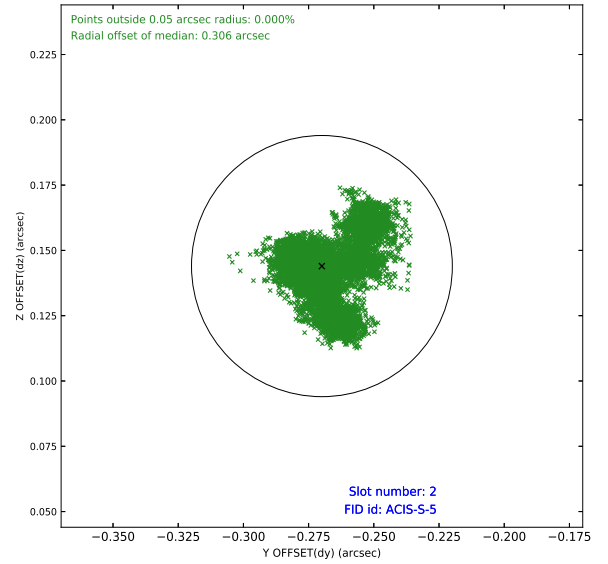
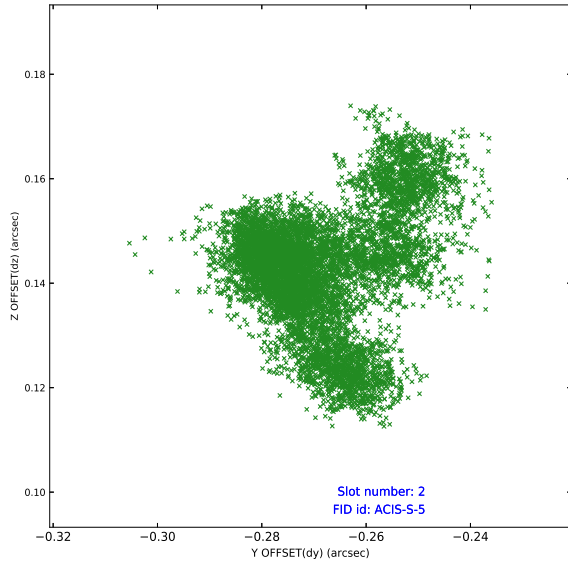
2.5.1 Slot 0



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	32.069423532724

A.2 Comments