

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5685 - L2 Version 4
Chandra X-Ray Center

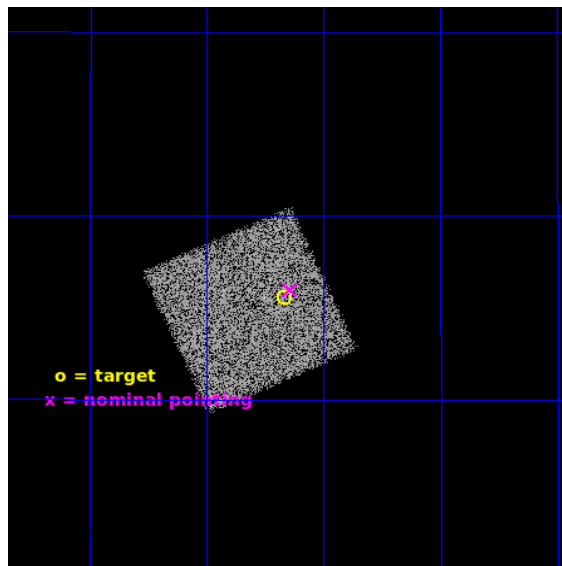
L2 Processing Date : Oct 7 2020

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

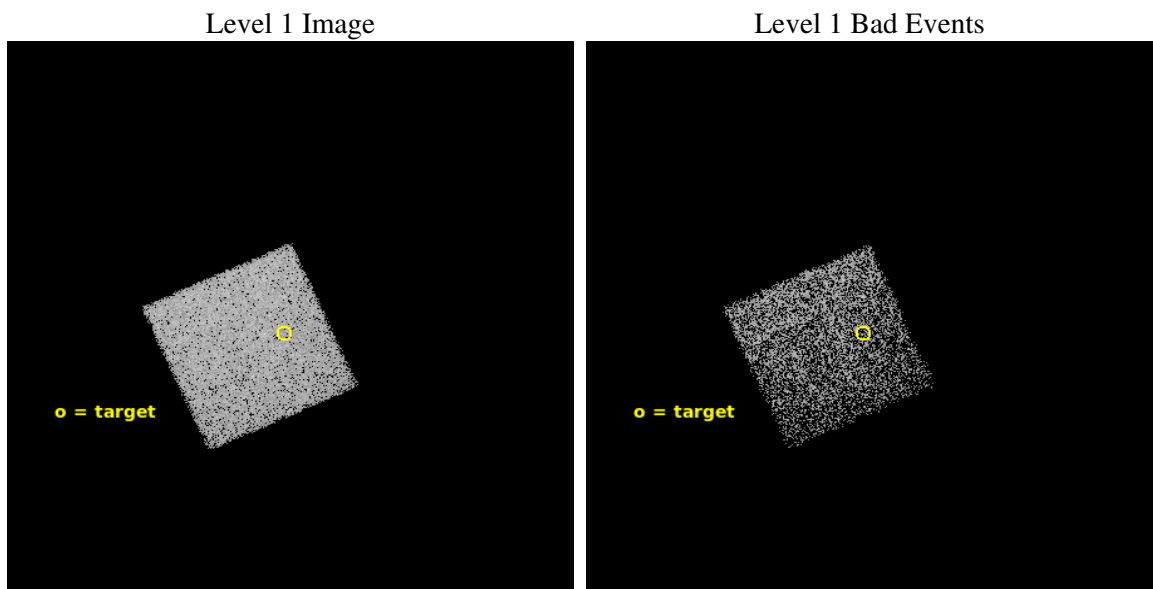
seq_num	701108	Sequence number
obs_id	5685	Observation id
title	Bringing in the Last SHEEP	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	AX J1257.6+3525	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.417083	Observer's specified target RA [deg]
dec_targ	35.426111	Observer's specified target Dec [deg]
ra_nom	194.41099531147	Nominal RA [deg]
dec_nom	35.433049777491	Nominal Dec [deg]
roll_nom	155.70722593135	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5116.7999809384	Sum of GTIs [s]
livetime	5052.0079786127	Livetime [s]
ontime7	5116.7999809384	Sum of GTIs [s]
l2events	20506	Number of level 2 events



2 OBI

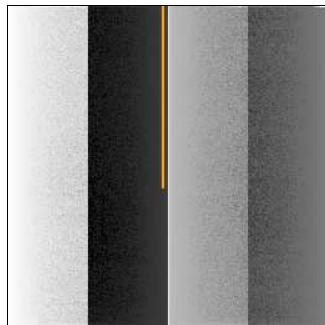
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5116.7999809384	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	5116.7999809384	Sum of GTIs [s]
date	2020-10-07T10:33:58	Date and time of file creation	l1events	50526	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

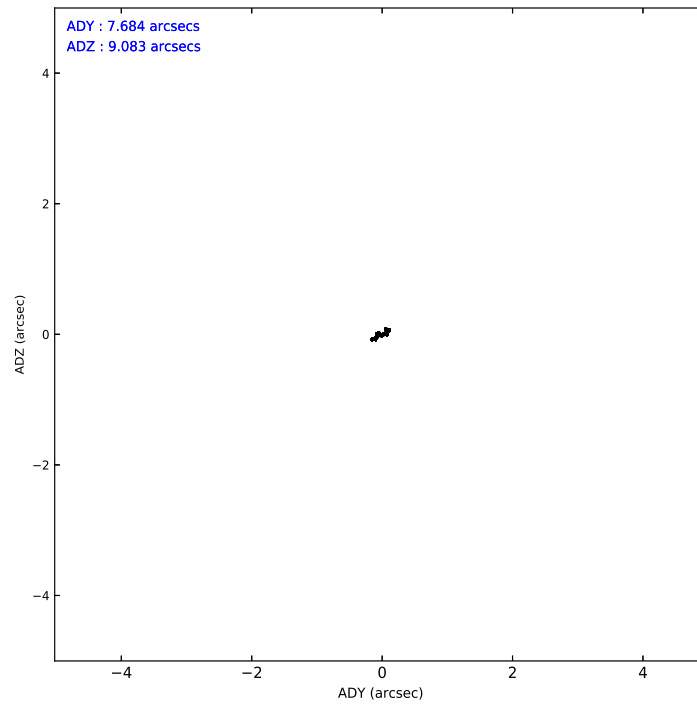
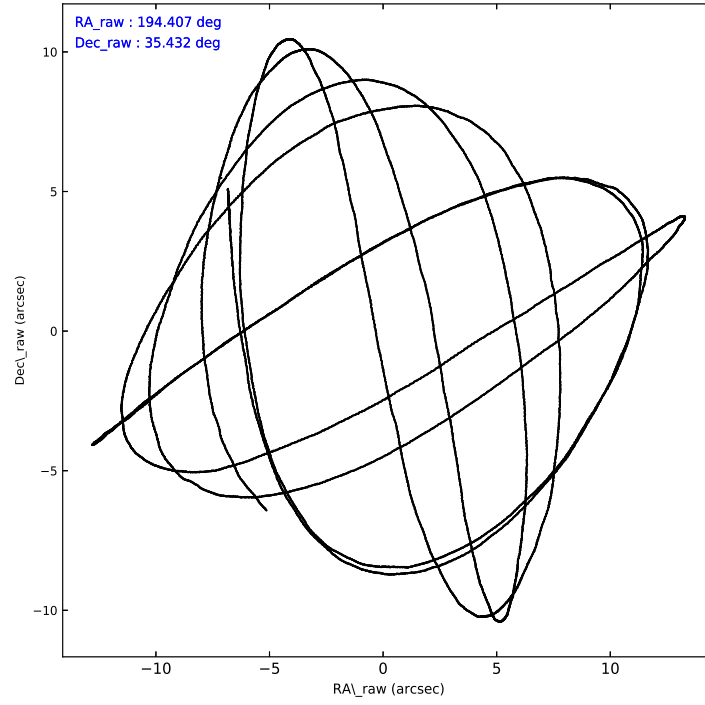
	ccd 7
level 1 events	50526
rejected events	29385
rejected %	58%

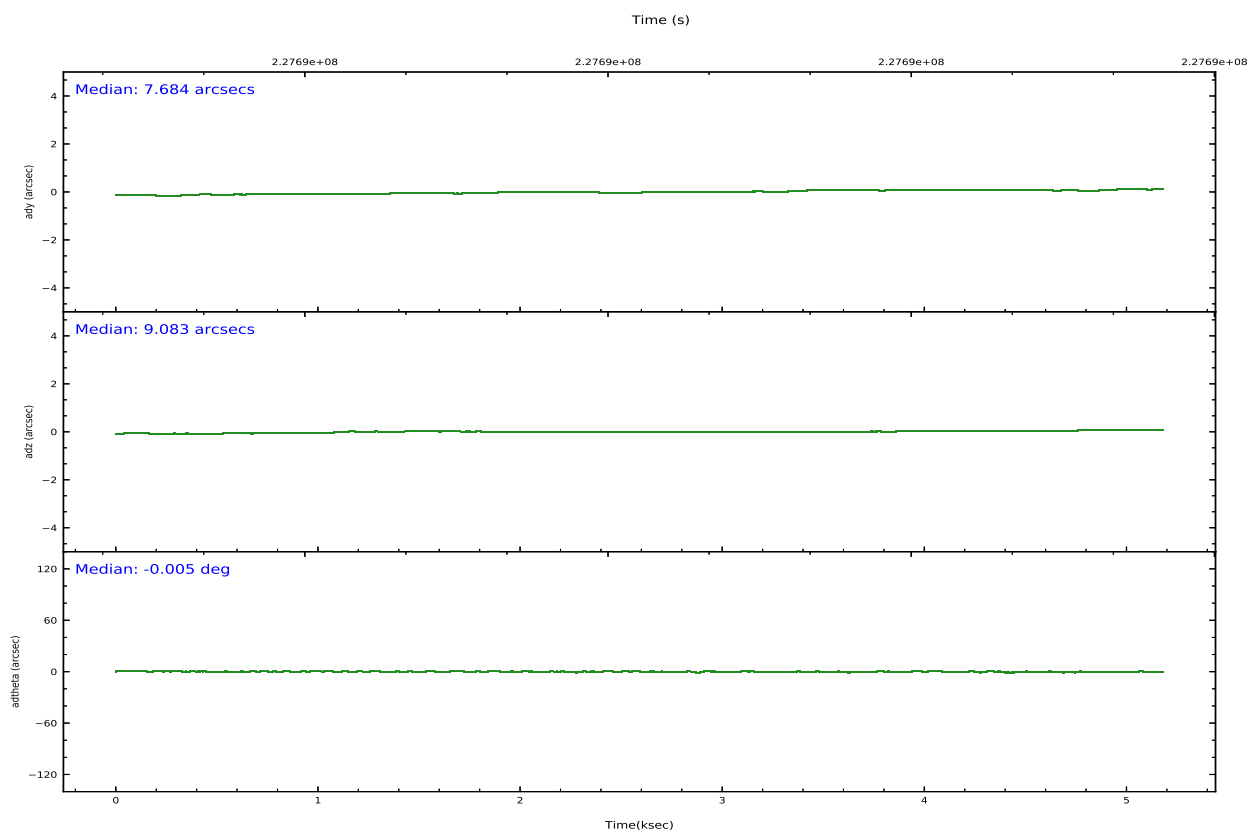
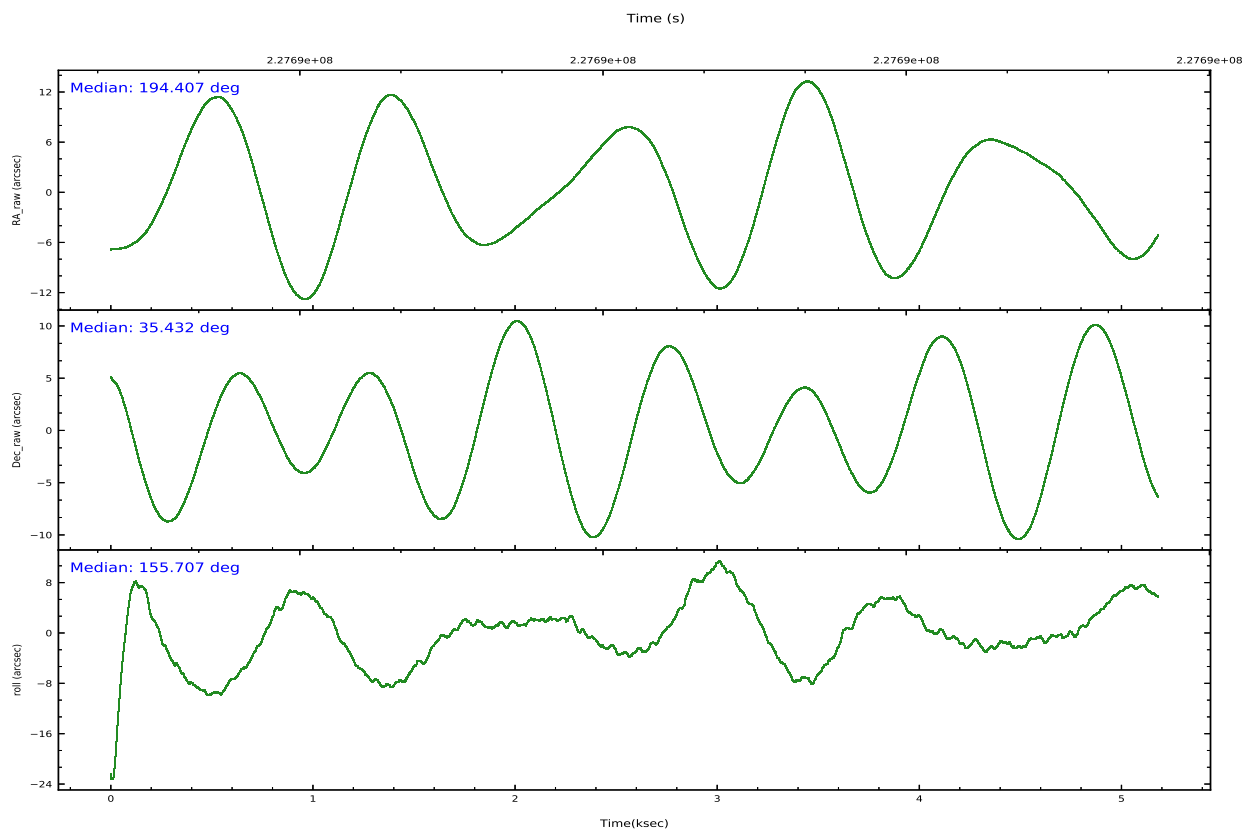
	ccd 7
grade 0 events	1866
	3%
grade 1 events	41
	0%
grade 2 events	4148
	8%
grade 3 events	1889
	3%
grade 4 events	1836
	3%
grade 5 events	4797
	9%
grade 6 events	11418
	22%
grade 7 events	24531
	48%

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	194.440504	194.41099531147	Subarray requested	NONE	NONE
[deg] Pointing Dec	35.434640	35.433049777491	Alternating exposures requested	N	N
[deg] Pointing Roll	155.527540	155.70722593135	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	227686747.184000	227686027.89272			
Observation start date	2005-03-20T06:18:03	2005-03-20T06:07:07			
[s] Observation end time (MET)	227691747.184000	227692219.918			
Observation end date	2005-03-20T07:41:23	2005-03-20T07:50:19			
Read mode	TIMED	TIMED			

2.3 Aspect



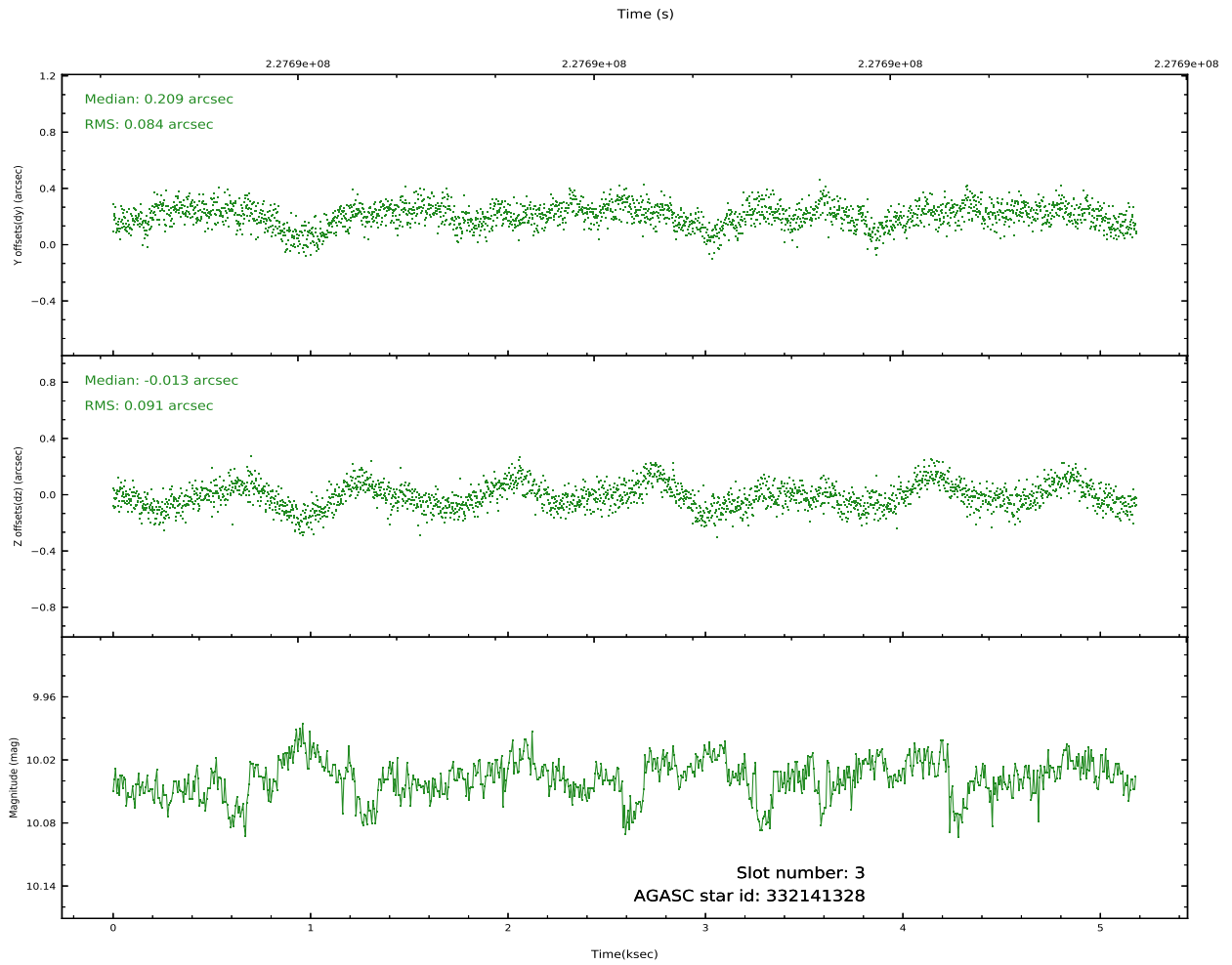
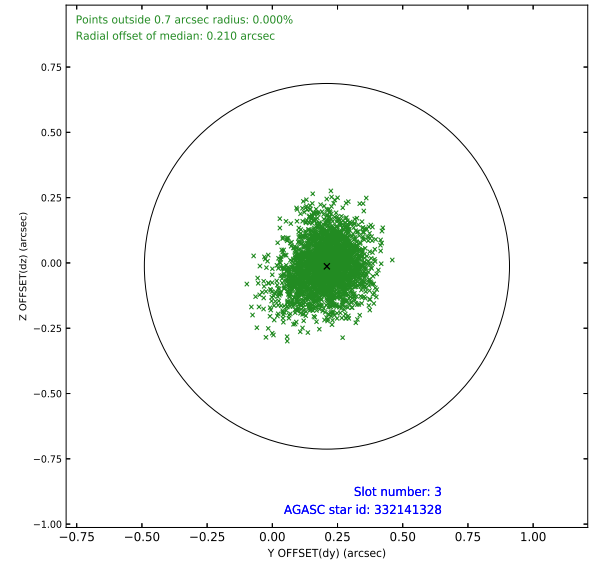
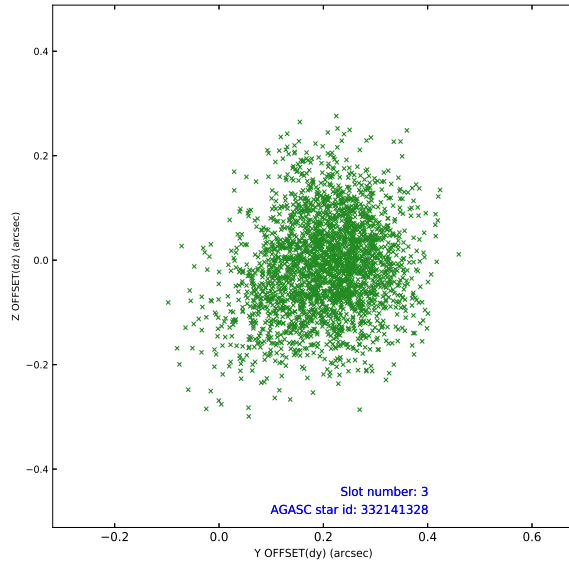


Slot Statistics

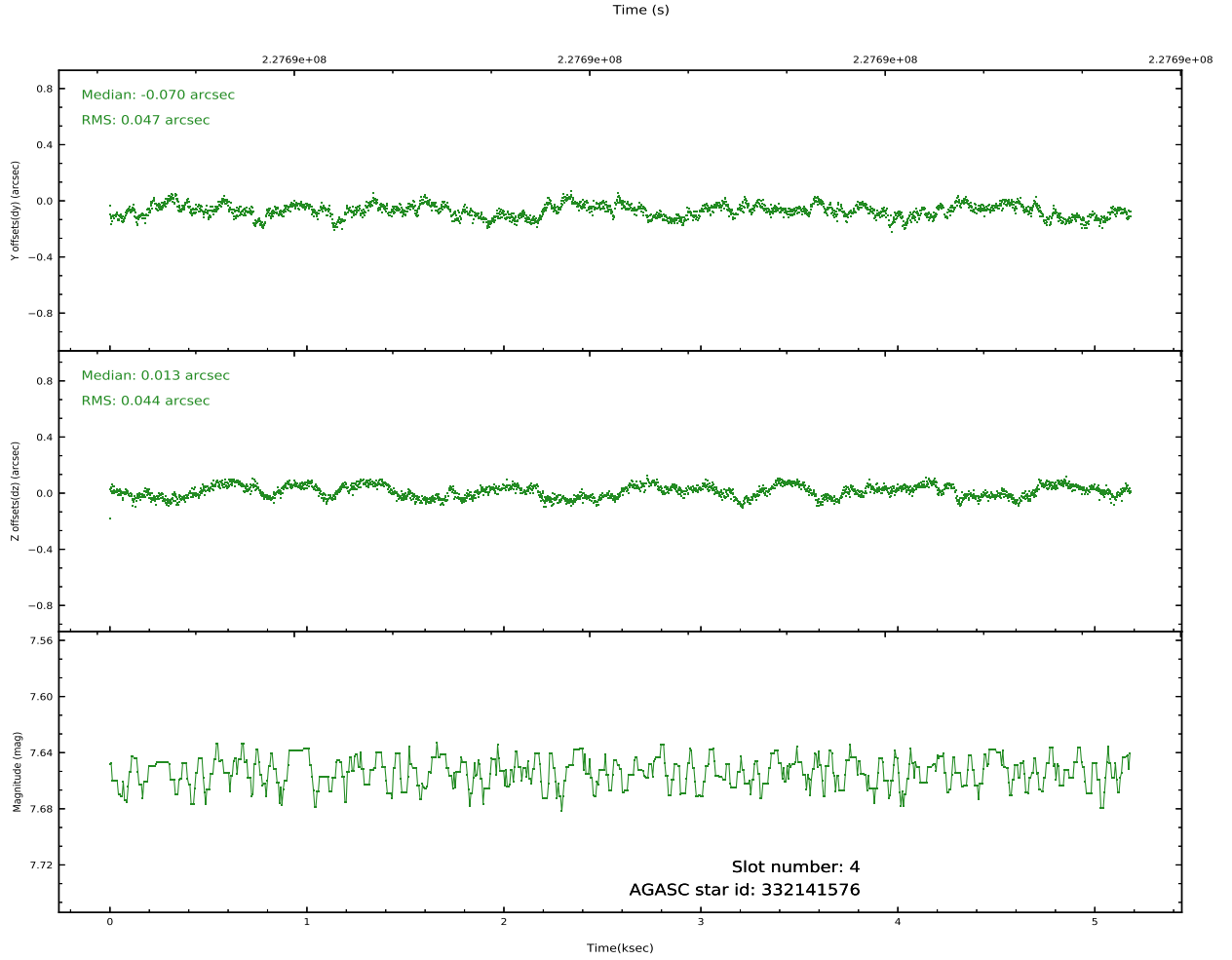
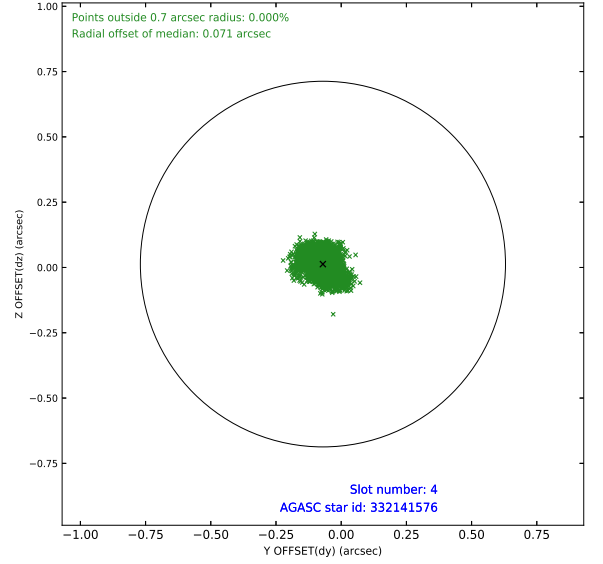
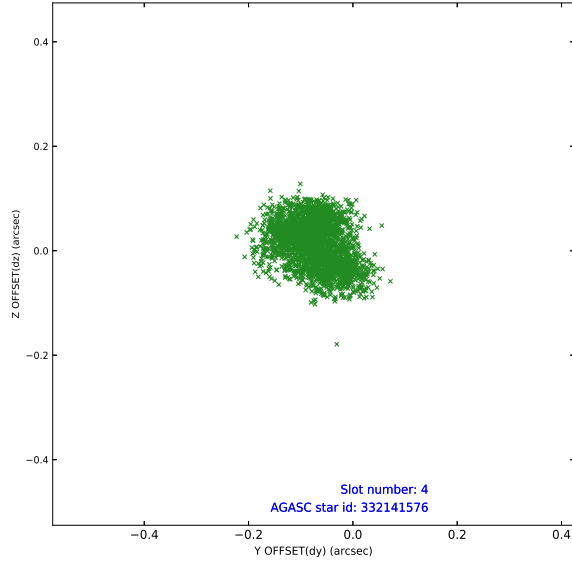
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1264	1.000	-0.054	-0.077	0.006	0.011	0.000000	0.000000	-760.46	-1730
1	FID		ACIS-S-4	7.20	1264	1.000	0.145	0.047	0.007	0.012	0.000000	0.000000	2152.44	177
2	FID		ACIS-S-5	7.23	1264	1.000	-0.122	0.039	0.007	0.013	0.000000	0.000000	-1811.91	172
3	GUIDE	used	332141328	10.04	2528	1.000	0.209	-0.013	0.130	0.217	193.847285	35.491958	1670.28	527
4	GUIDE	used	332141576	7.65	2529	1.000	-0.070	0.013	0.069	0.107	195.042870	34.998417	-2264.31	688
5	GUIDE	used	332142200	8.17	2529	1.000	-0.094	-0.048	0.078	0.118	194.036005	35.350267	955.01	766
6	GUIDE	used	332145072	10.18	2525	1.000	0.006	0.089	0.270	0.391	194.470610	35.549529	91.71	-412
7	GUIDE	used	332150720	7.53	2527	1.000	-0.047	-0.019	0.092	0.130	195.031183	34.919346	-2353.10	961

2.4 Star Slots

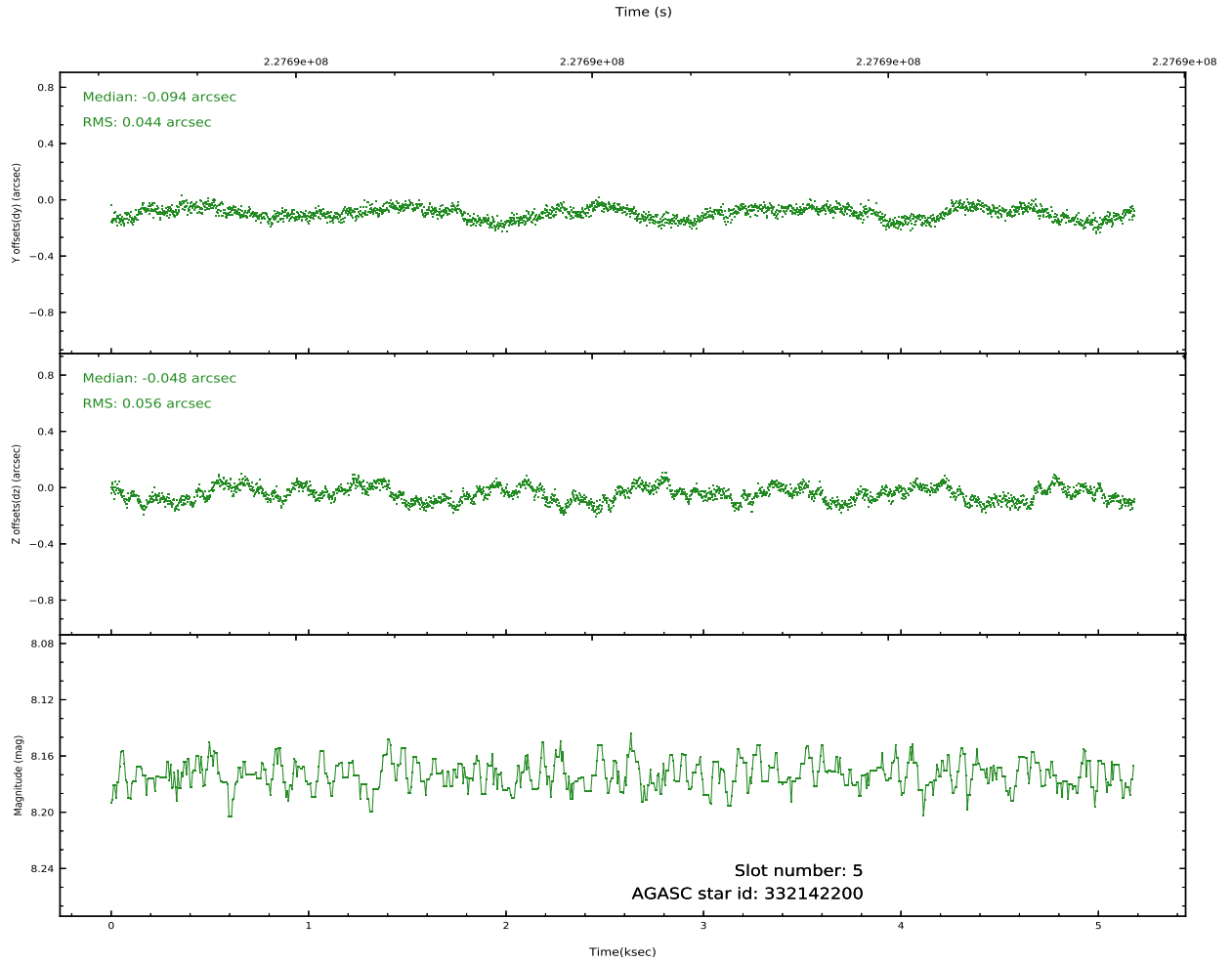
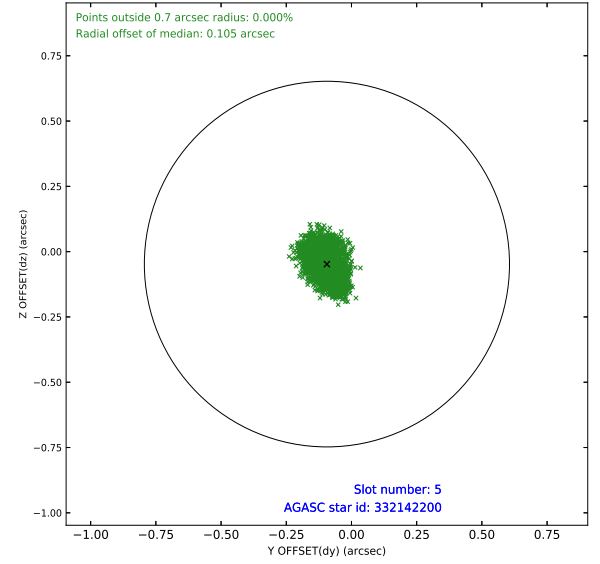
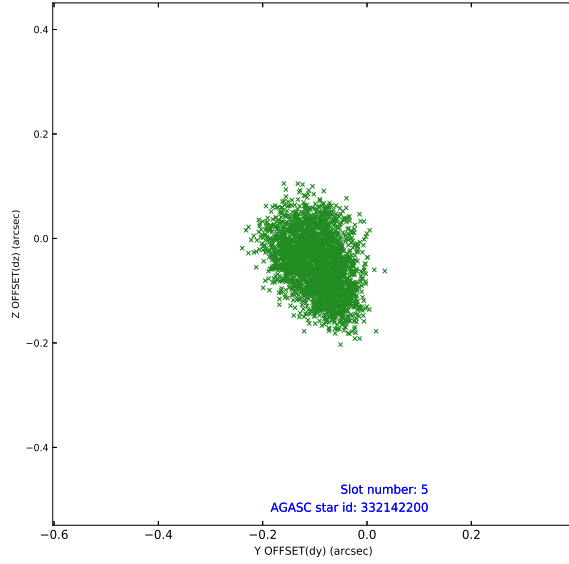
2.4.1 Slot 3



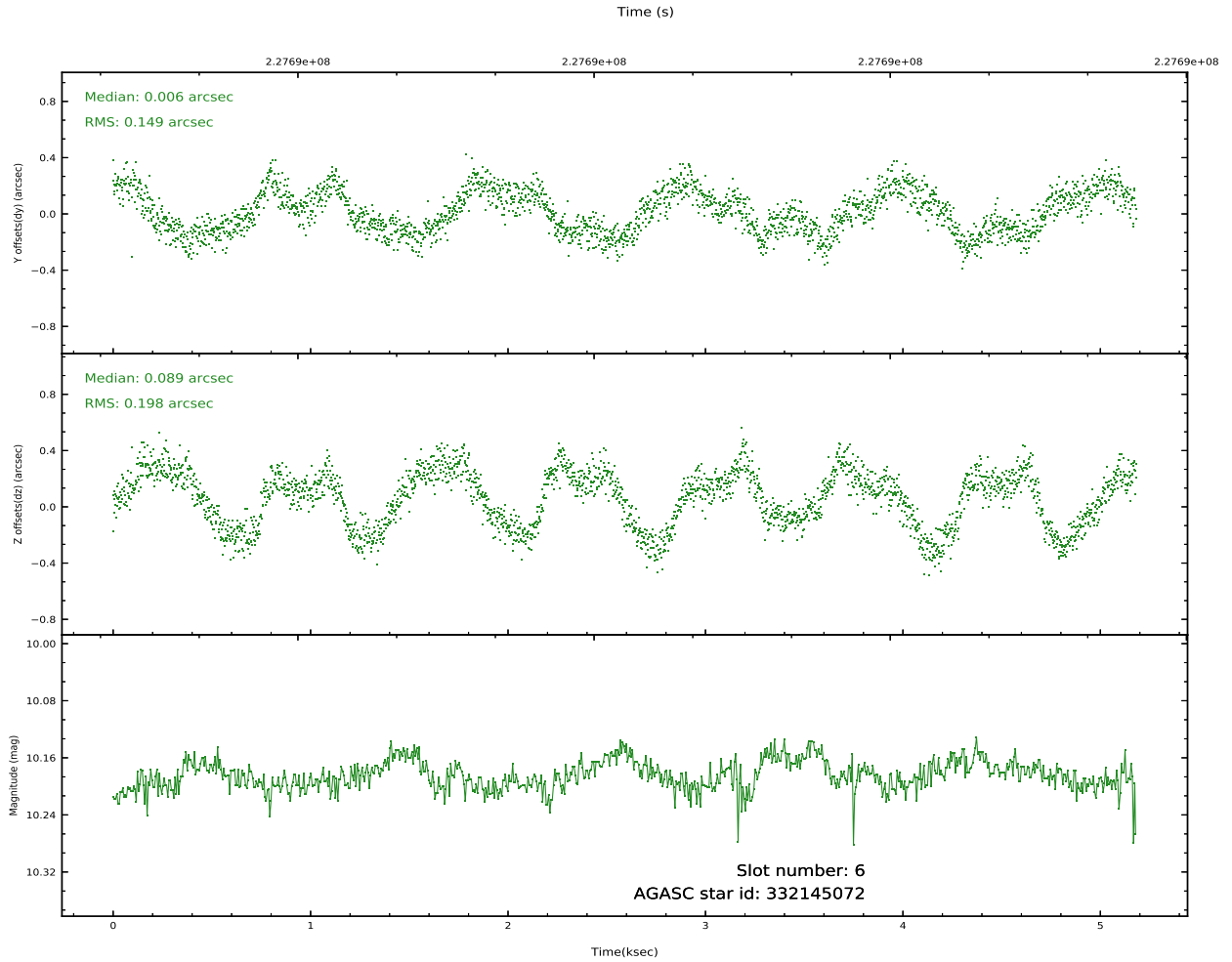
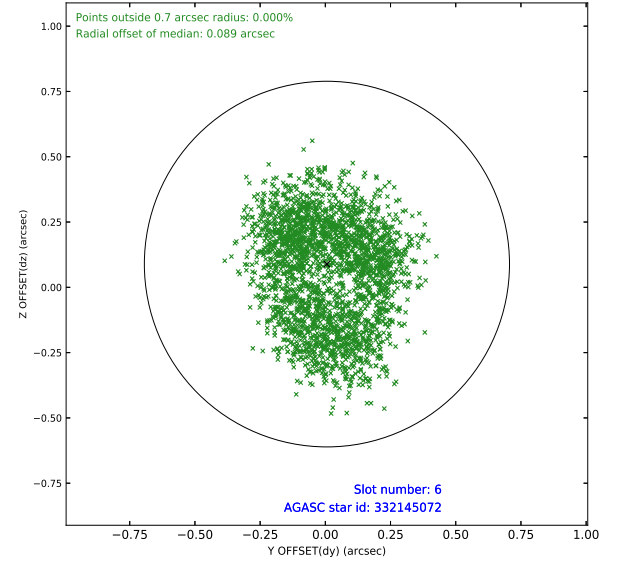
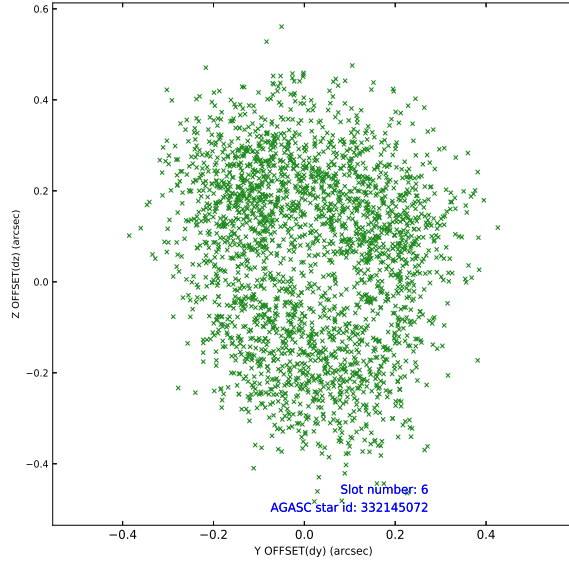
2.4.2 Slot 4



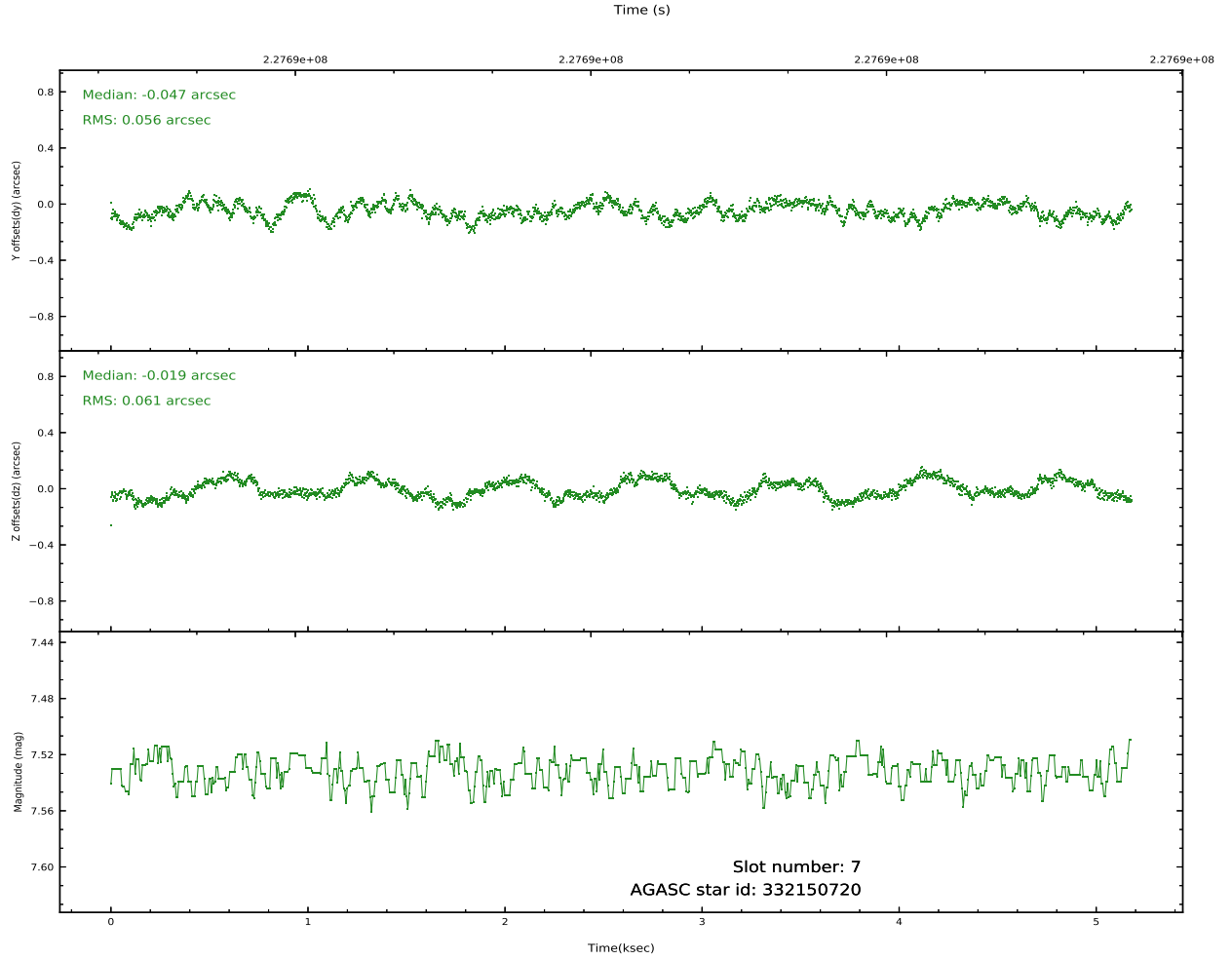
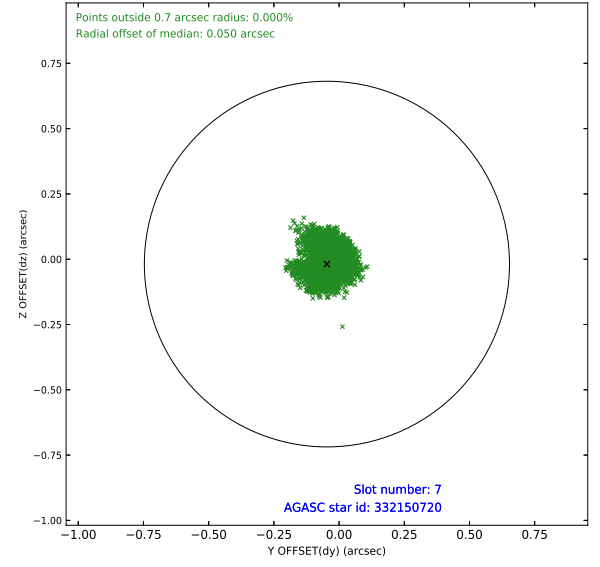
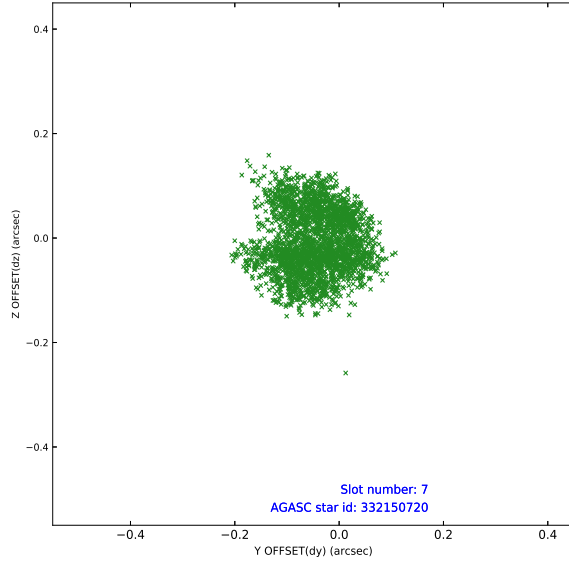
2.4.3 Slot 5



2.4.4 Slot 6

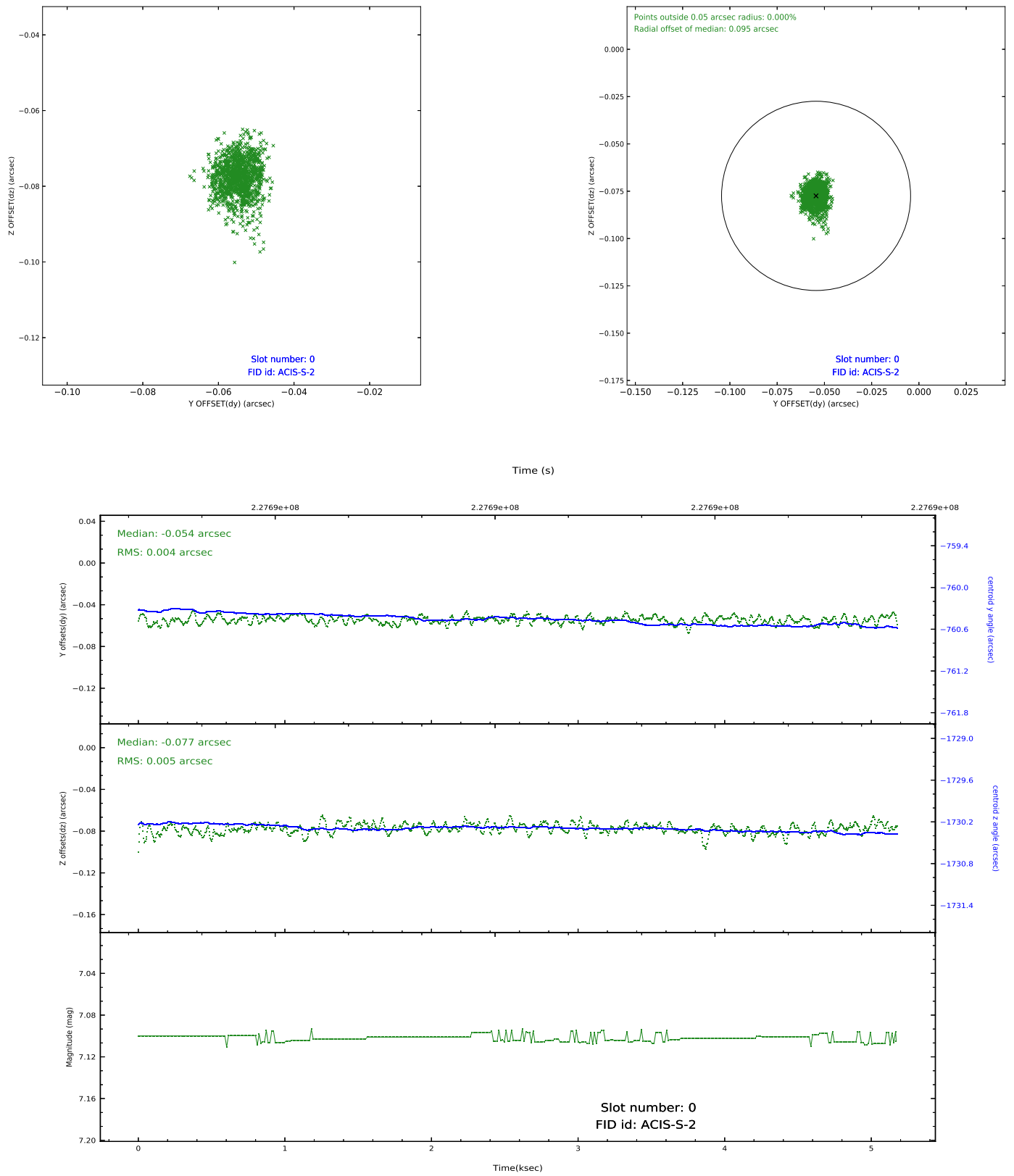


2.4.5 Slot 7

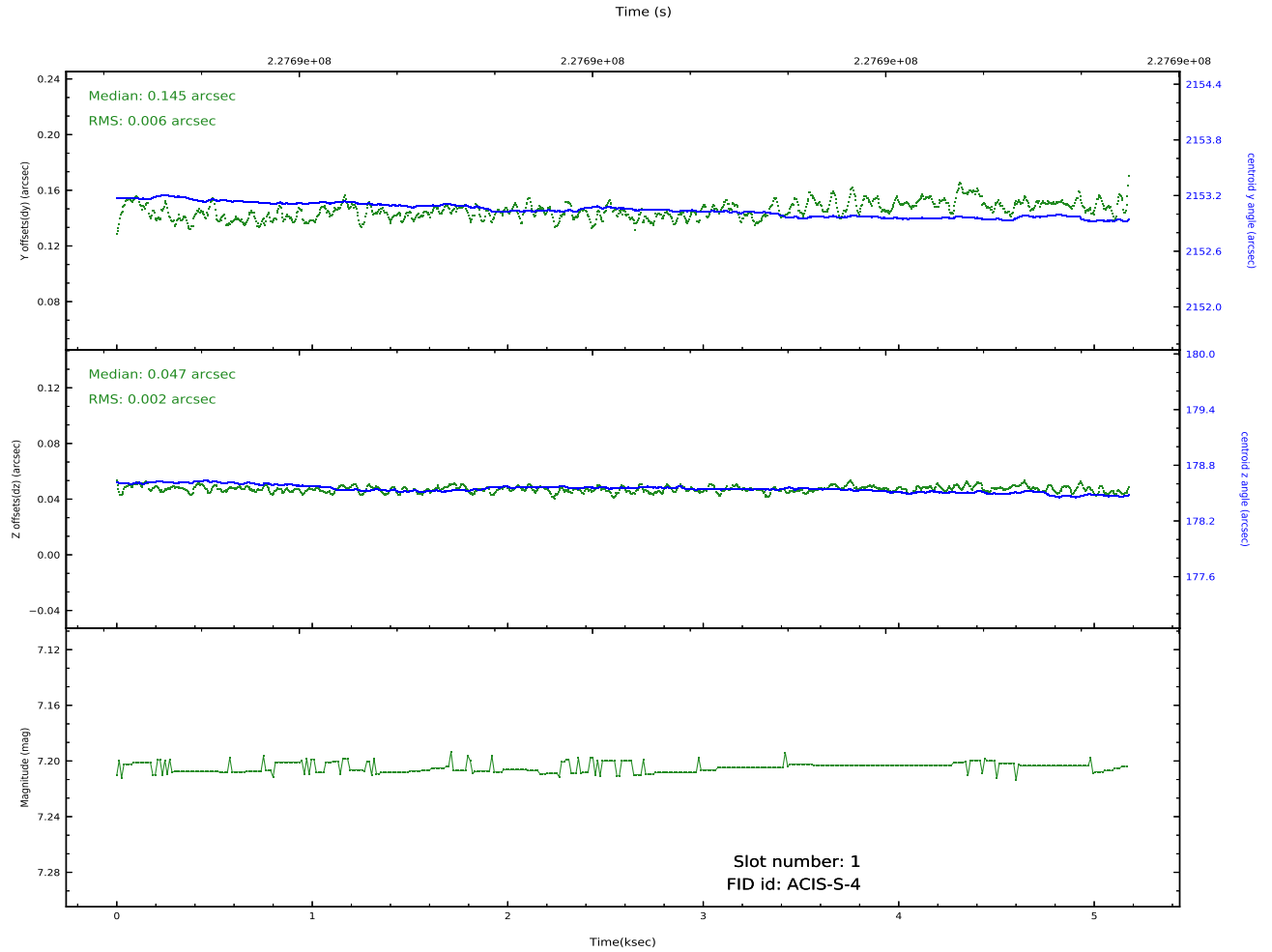
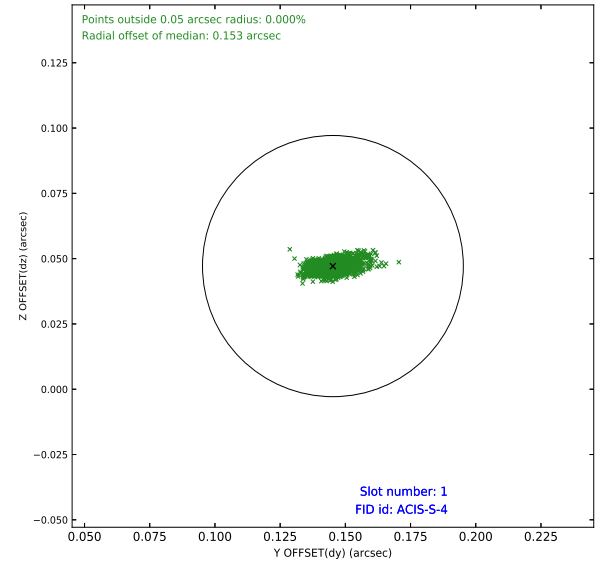
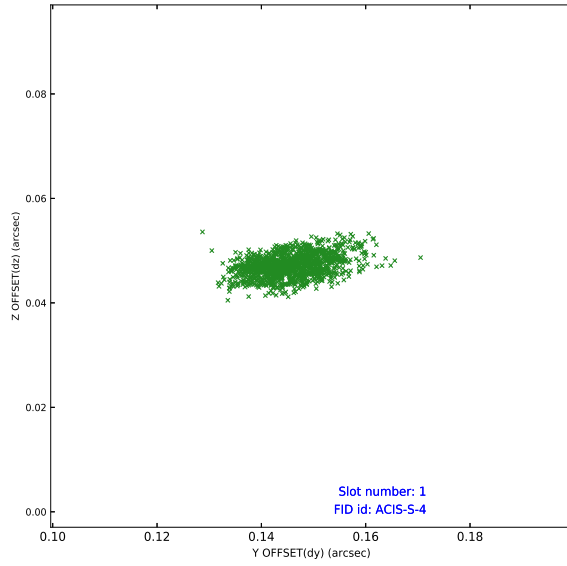


2.5 FID Slots

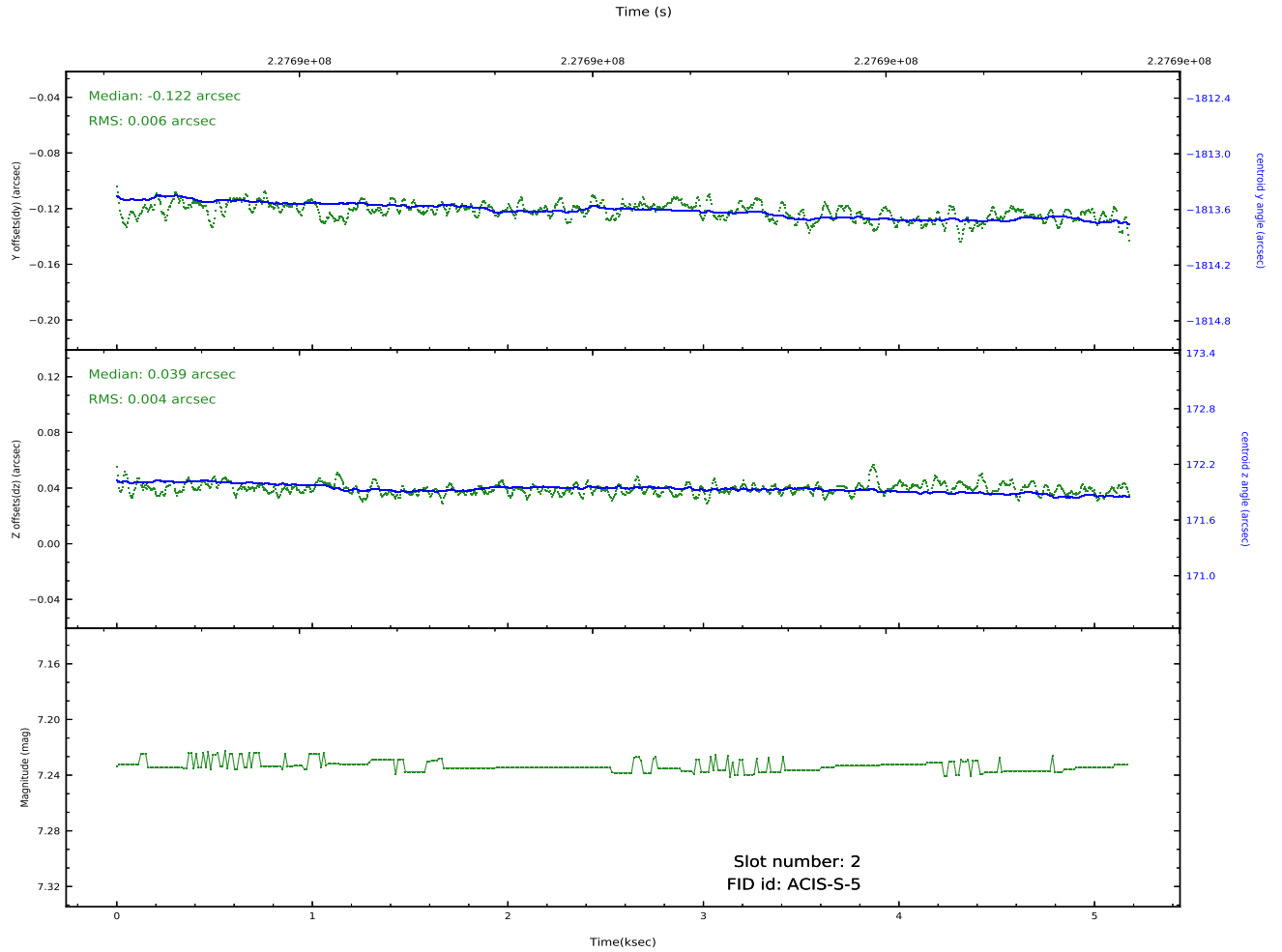
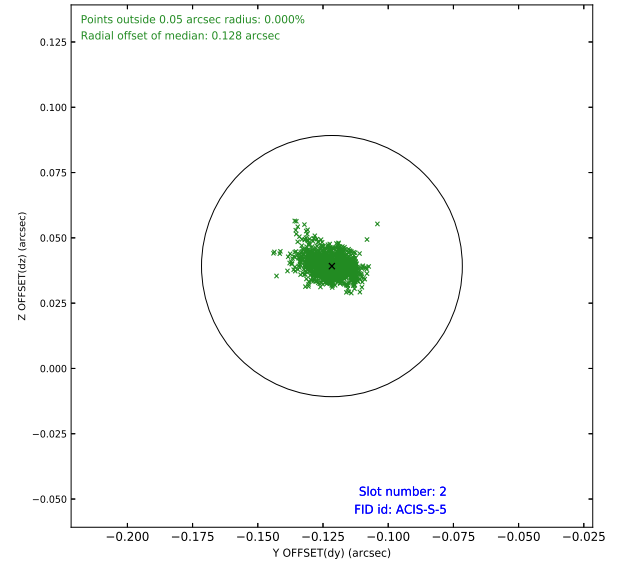
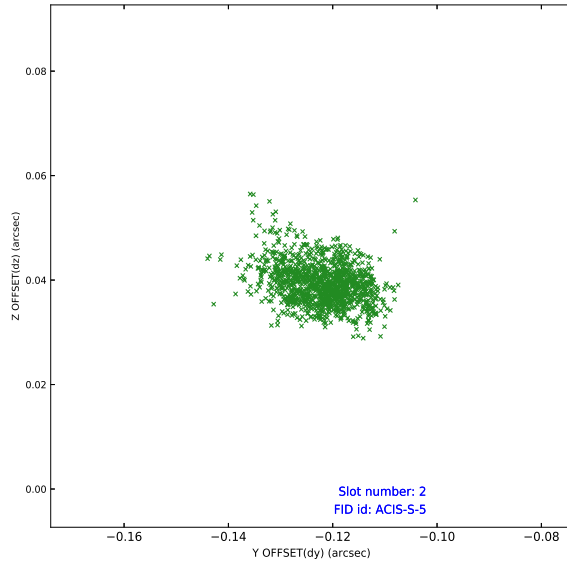
2.5.1 Slot 0



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)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.116799

A.2 Comments

Joint proposal with NOAO.