

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5688 - L2 Version 6
Chandra X-Ray Center

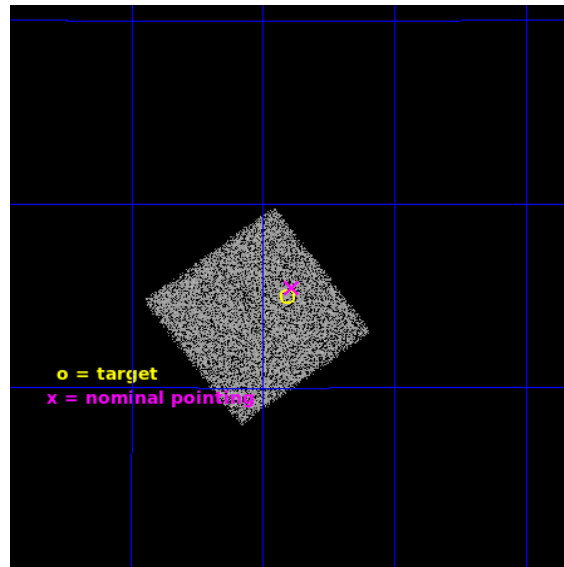
L2 Processing Date : Oct 7 2020

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1 Front

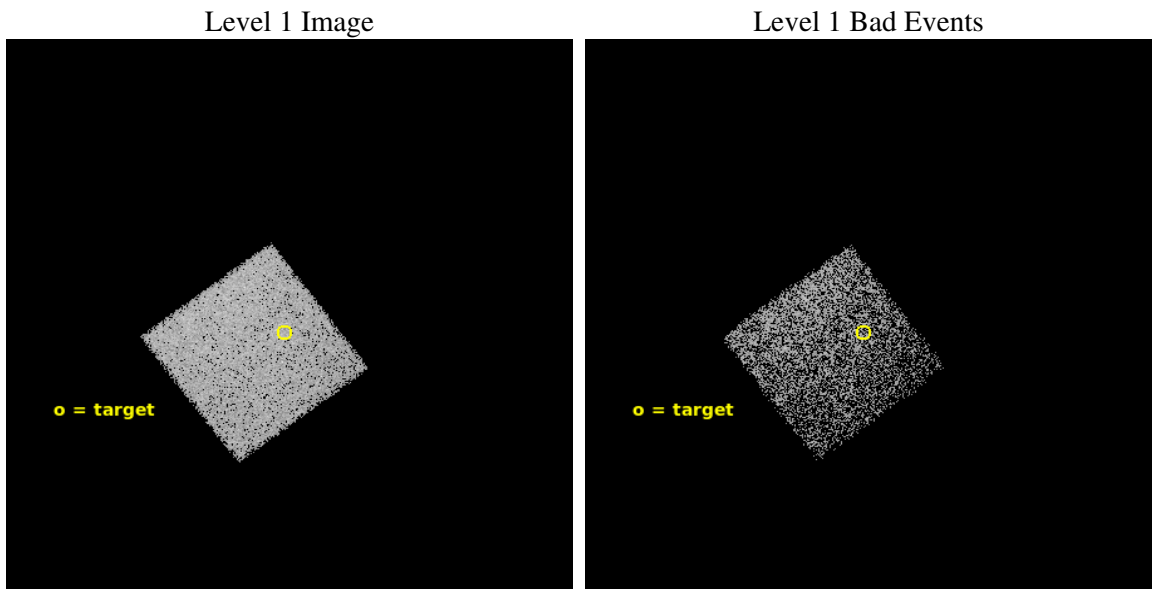
seq_num	701111	Sequence number
obs_id	5688	Observation id
title	Bringing in the Last SHEEP	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	AX J1426.9+2334	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.72625	Observer's specified target RA [deg]
dec_targ	23.582778	Observer's specified target Dec [deg]
ra_nom	216.72247173379	Nominal RA [deg]
dec_nom	23.590748751584	Nominal Dec [deg]
roll_nom	143.16790014563	Nominal Roll [deg]
revision	6	Processing version of data
ontime	5174.3999807239	Sum of GTIs [s]
livetime	5108.8786125183	Livetime [s]
ontime7	5174.3999807239	Sum of GTIs [s]
l2events	21389	Number of level 2 events



2 OBI

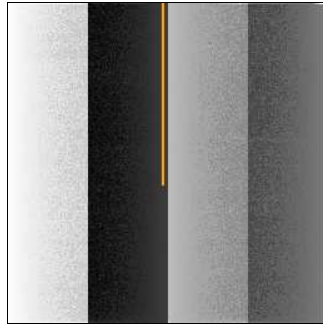
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5174.3999807239	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	5174.3999807239	Sum of GTIs [s]
date	2020-10-07T18:08:48	Date and time of file creation	l1events	52404	Number of level 1 events
revision	6	Processing version of data			

2.1.4 Events

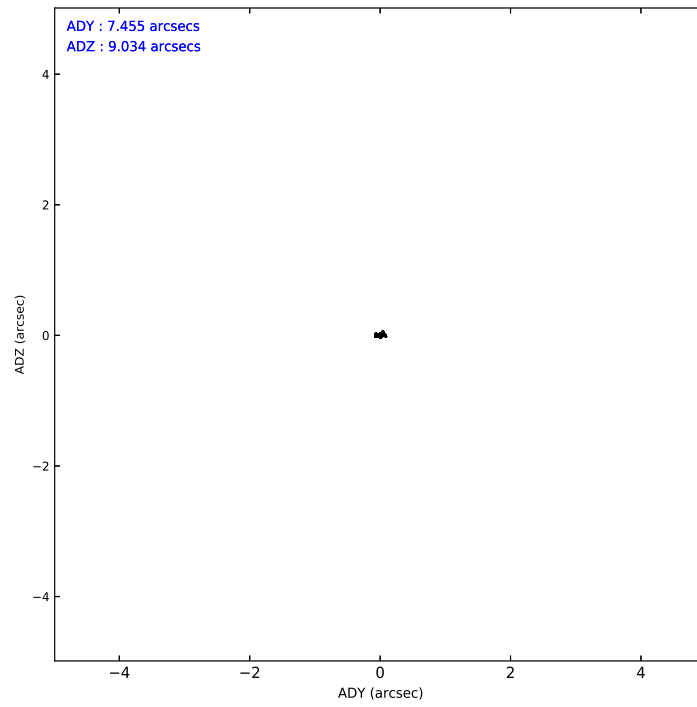
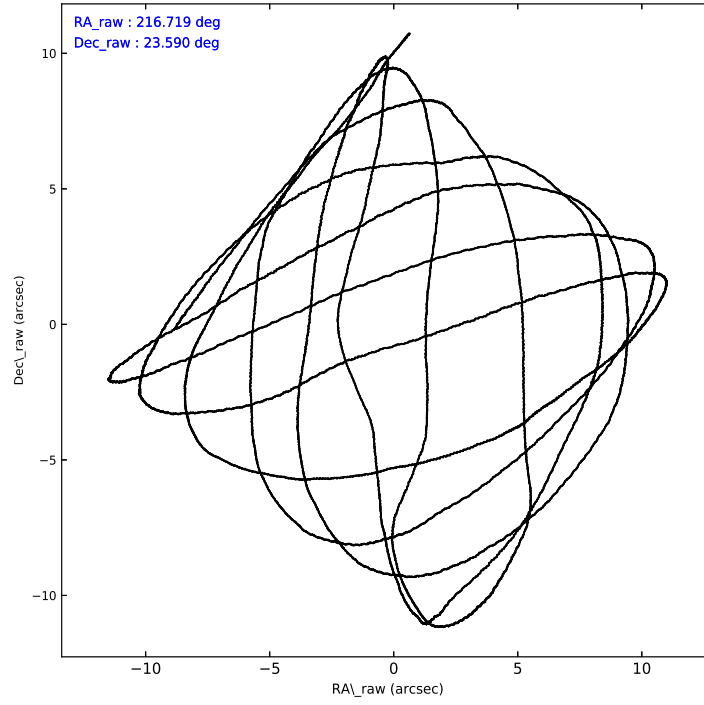
	ccd 7
level 1 events	52404
rejected events	30386
rejected %	57%

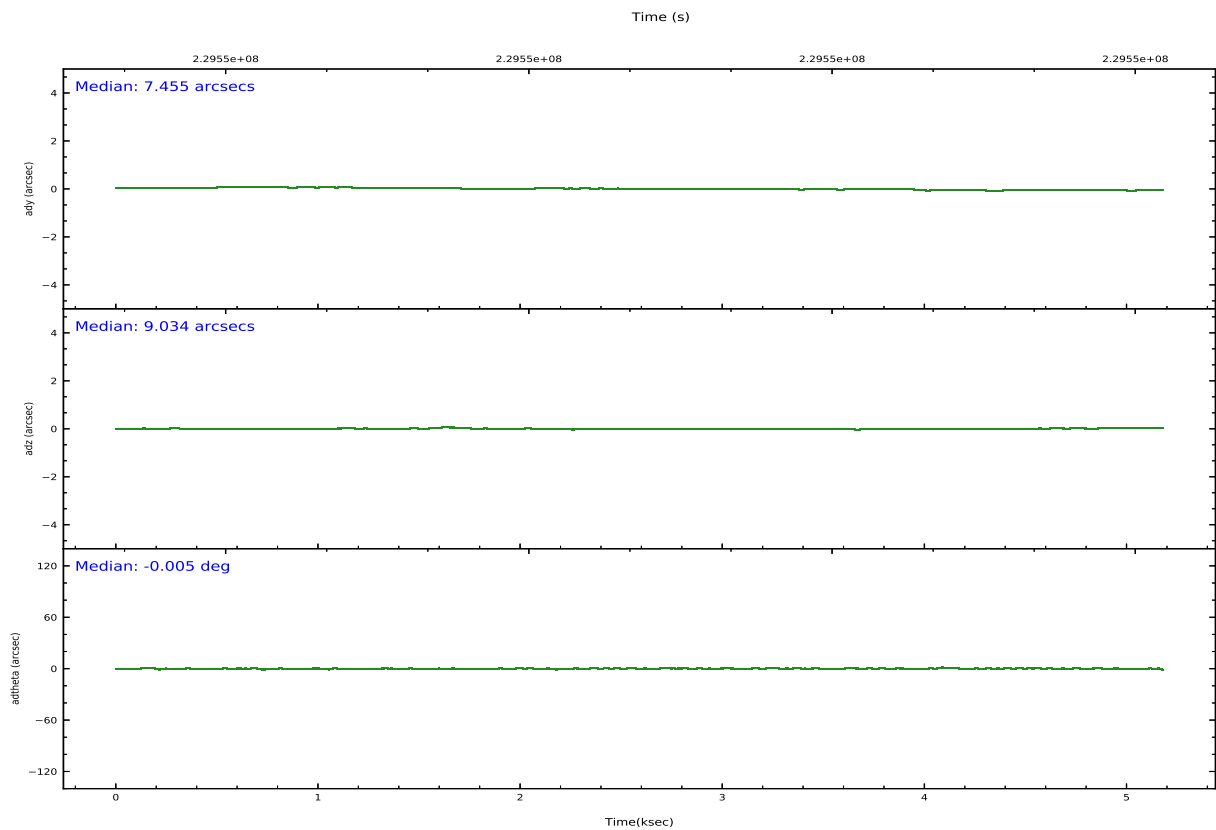
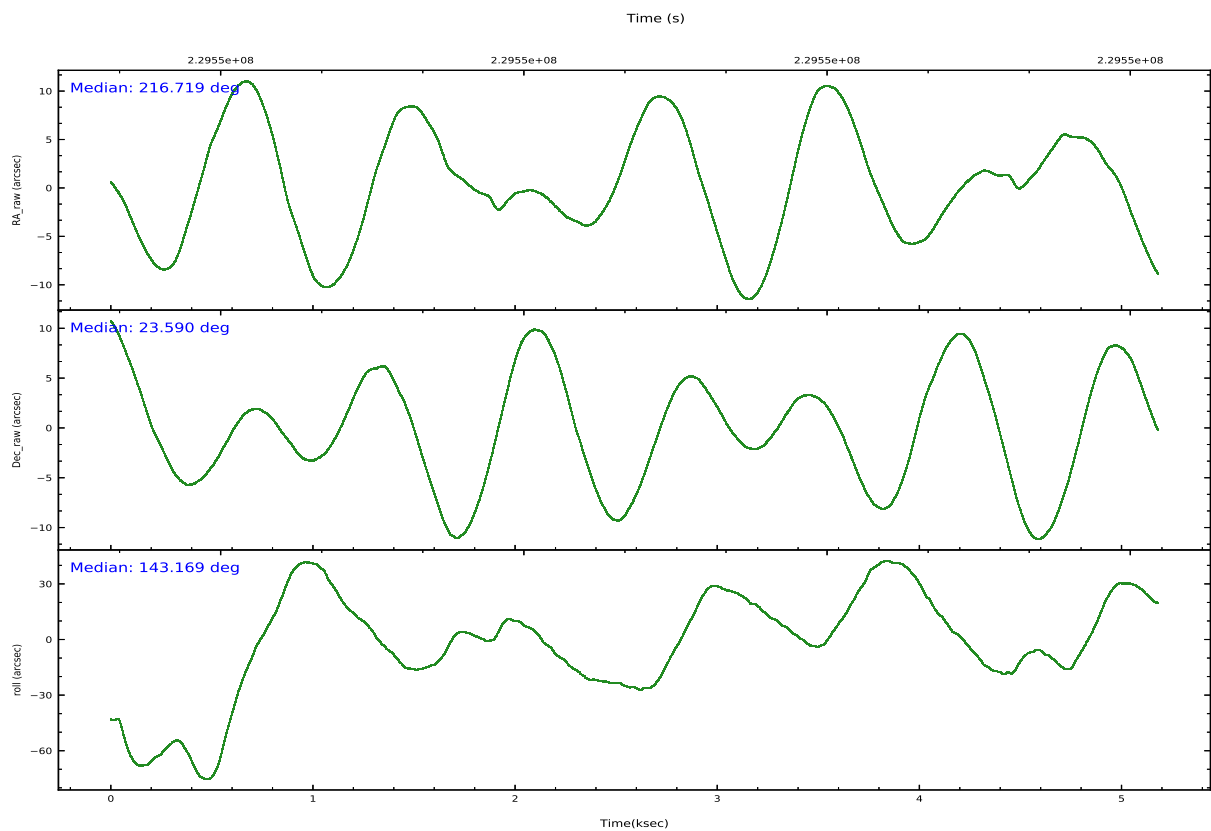
	ccd 7
grade 0 events	2033
	3%
grade 1 events	51
	0%
grade 2 events	4400
	8%
grade 3 events	2016
	3%
grade 4 events	1952
	3%
grade 5 events	5057
	9%
grade 6 events	11763
	22%
grade 7 events	25132
	47%

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	216.748593	216.72247173379	Subarray requested	NONE	NONE
[deg] Pointing Dec	23.586961	23.590748751584	Alternating exposures requested	N	N
[deg] Pointing Roll	142.991064	143.16790014563	[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)	229547139.184000	229546376.3272			
Observation start date	2005-04-10T19:04:35	2005-04-10T18:52:56			
[s] Observation end time (MET)	229552139.184000	229552677.00248			
Observation end date	2005-04-10T20:27:55	2005-04-10T20:37:57			
Read mode	TIMED	TIMED			

2.3 Aspect



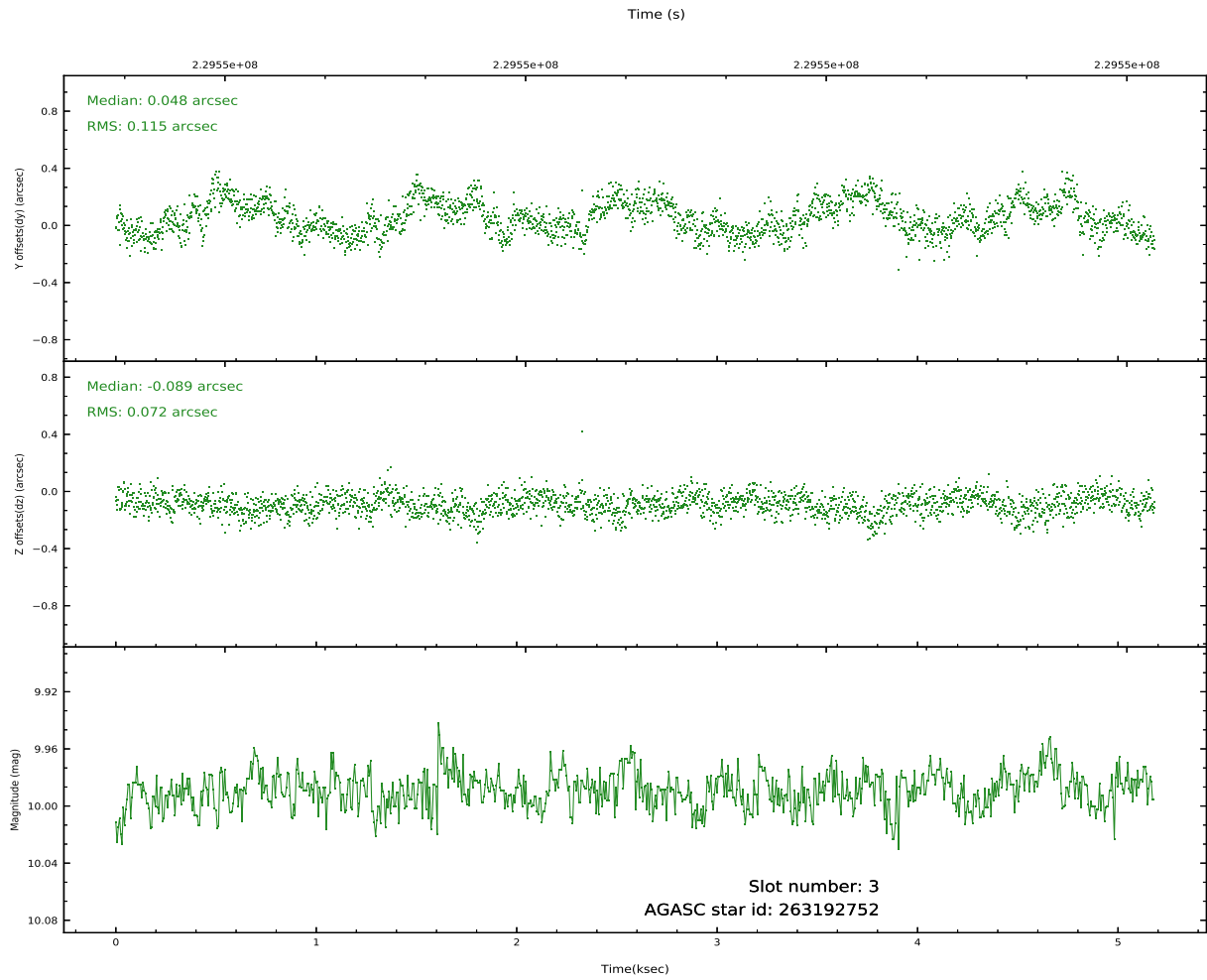
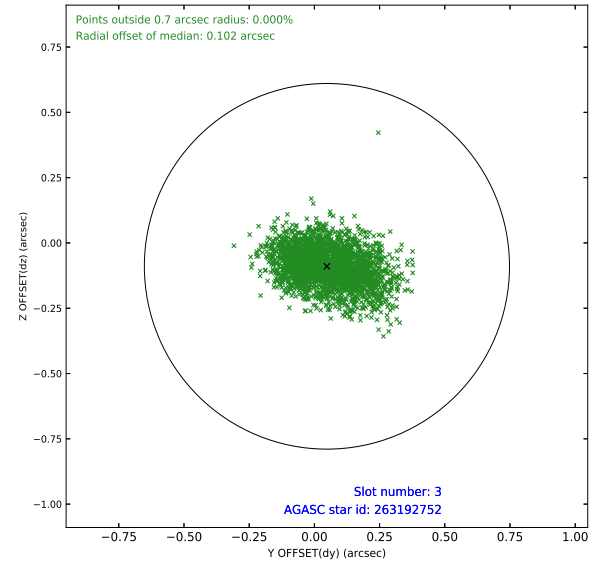
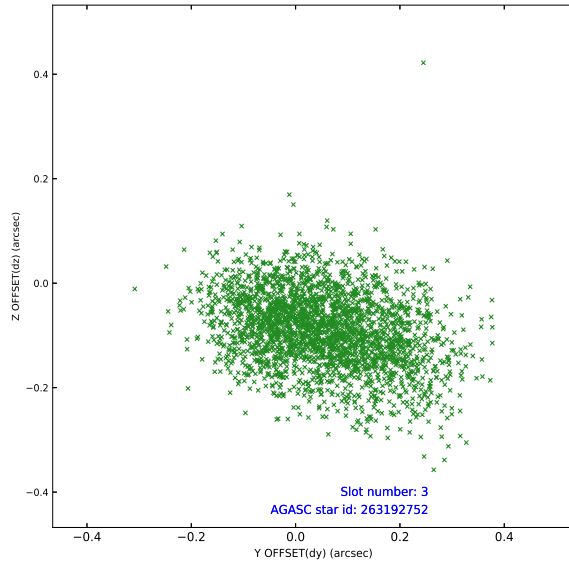


Slot Statistics

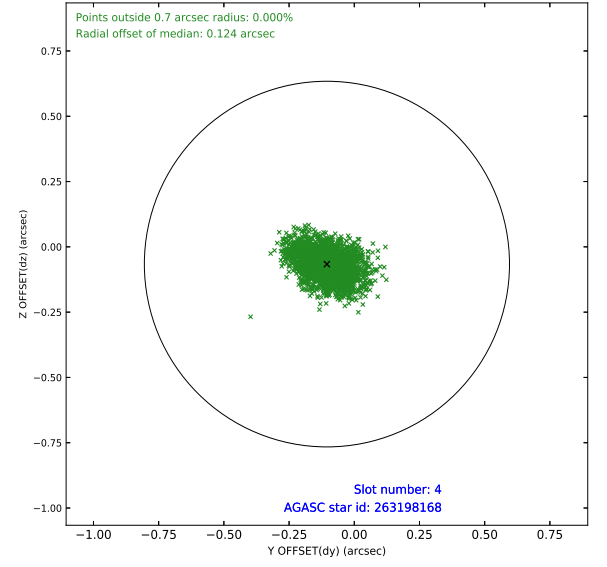
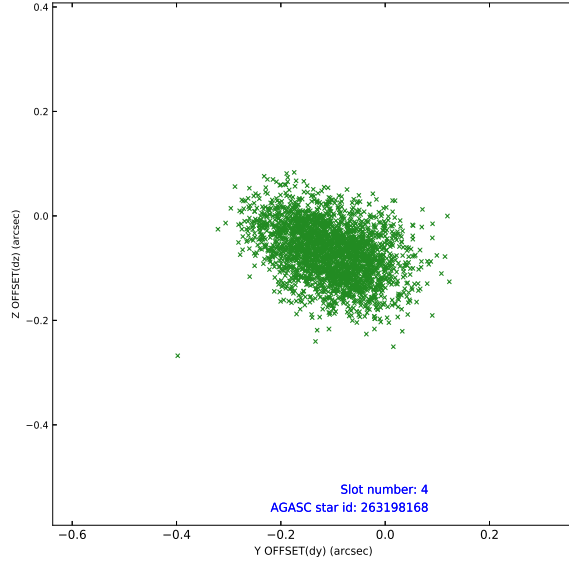
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1264	1.000	-0.057	-0.080	0.007	0.011	0.000000	0.000000	-760.24	-1730
1	FID		ACIS-S-4	7.21	1264	1.000	0.141	0.049	0.005	0.010	0.000000	0.000000	2152.66	177
2	FID		ACIS-S-5	7.23	1264	1.000	-0.116	0.040	0.006	0.011	0.000000	0.000000	-1811.68	172
3	GUIDE	used	263192752	9.99	2523	1.000	0.048	-0.089	0.144	0.237	216.329100	23.678864	1304.24	566
4	GUIDE	used	263198168	8.84	2527	1.000	-0.105	-0.066	0.093	0.155	216.844674	22.716629	-2140.19	2310
5	GUIDE	used	263199776	10.44	2527	1.000	0.049	0.159	0.134	0.214	216.935417	23.215957	-1298.60	695
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0

2.4 Star Slots

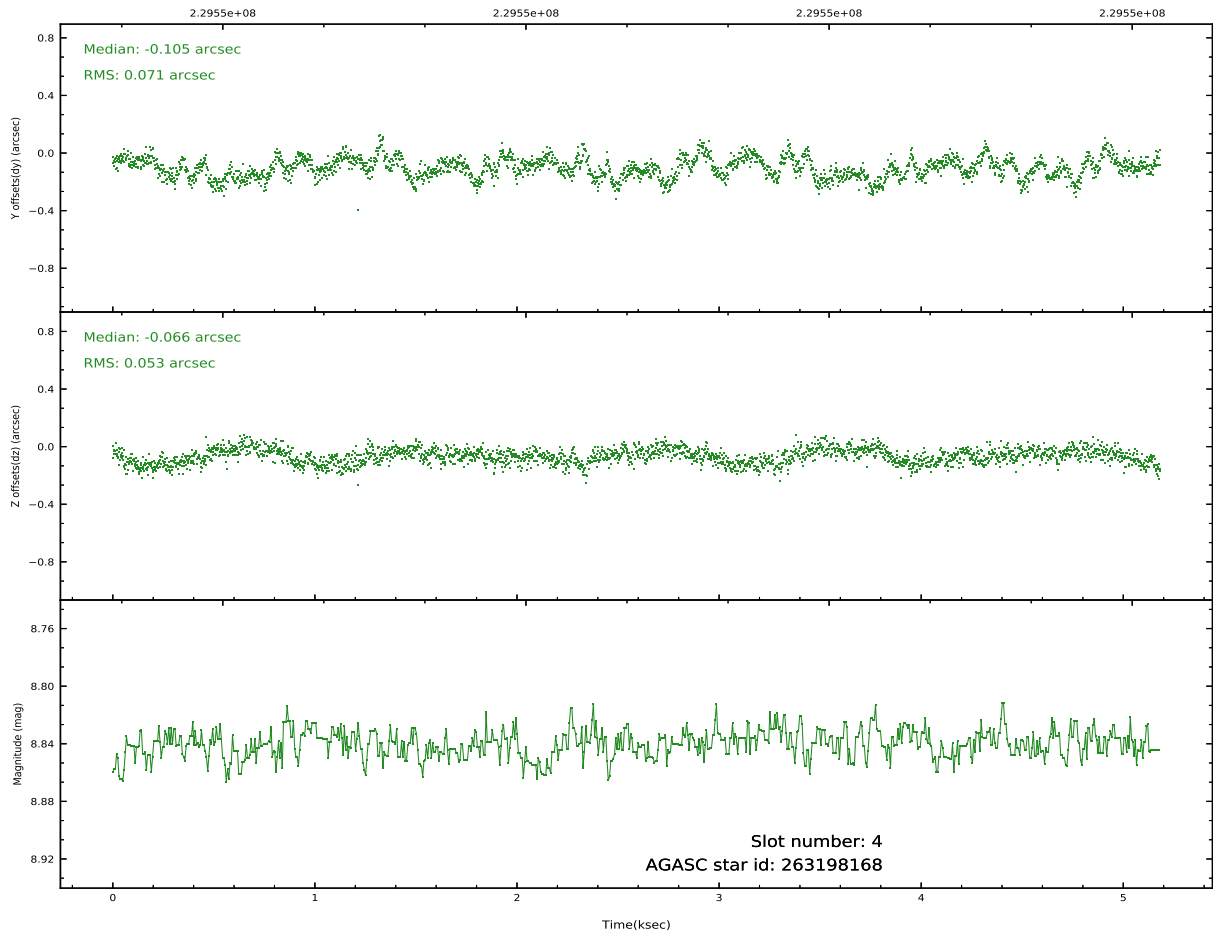
2.4.1 Slot 3



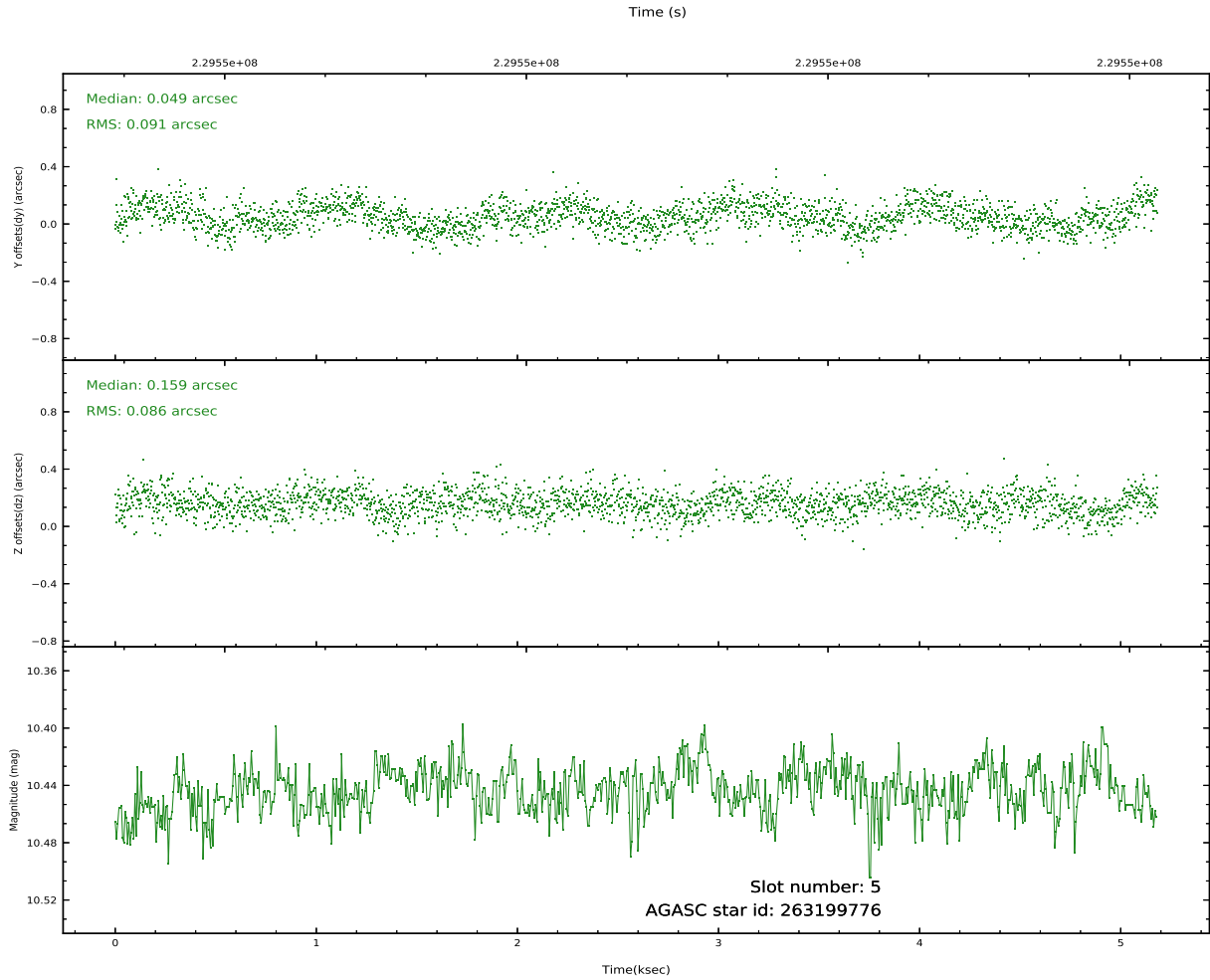
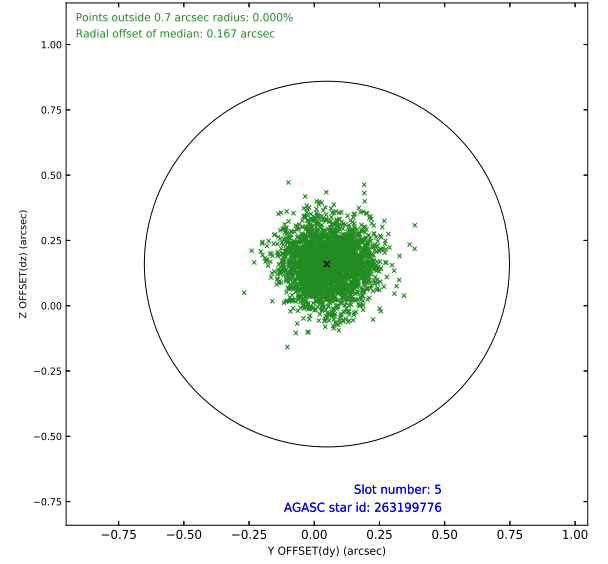
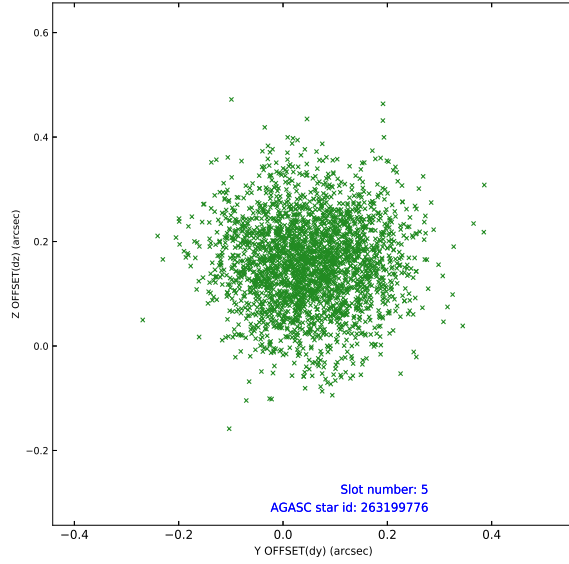
2.4.2 Slot 4



Time (s)

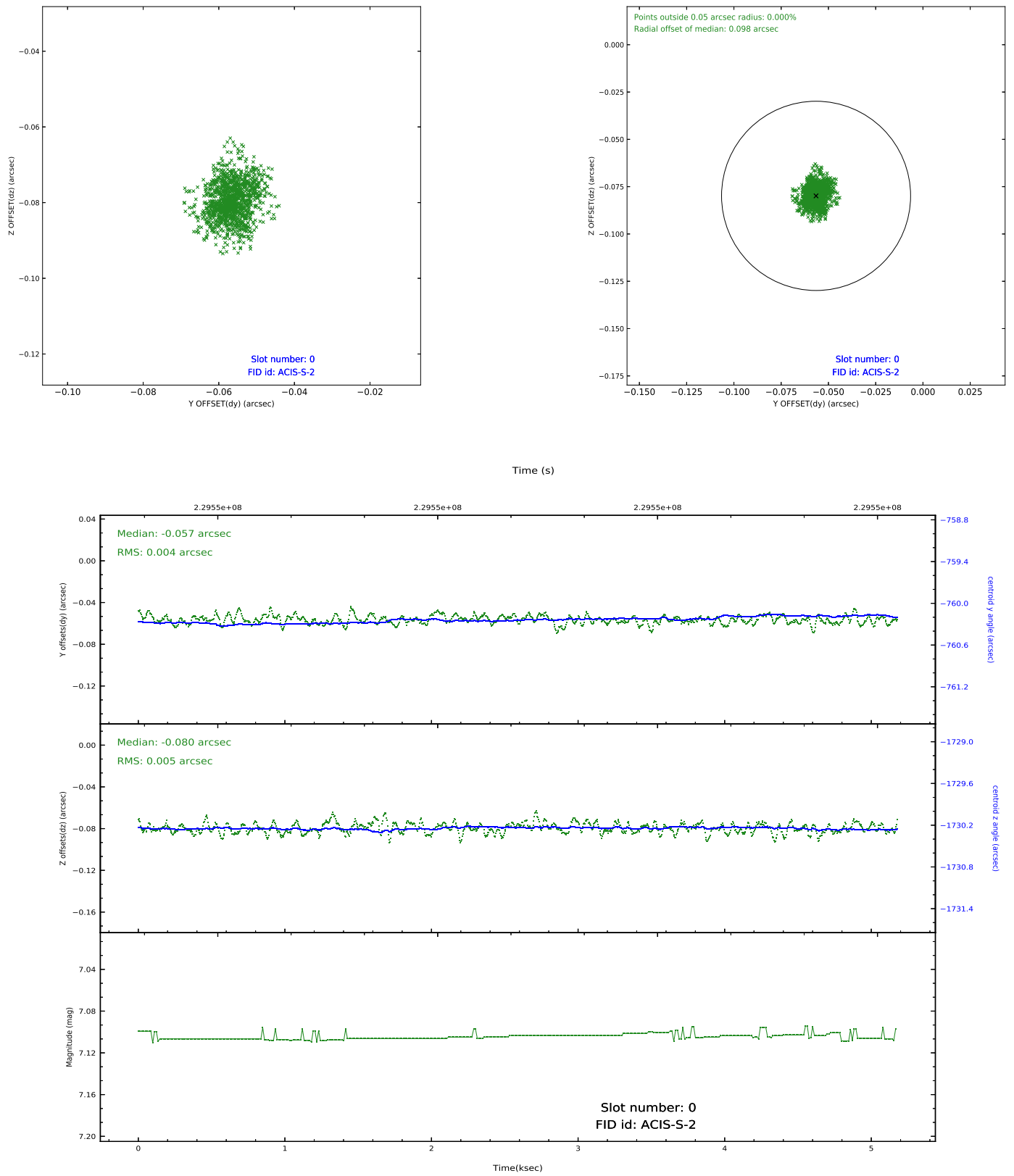


2.4.3 Slot 5

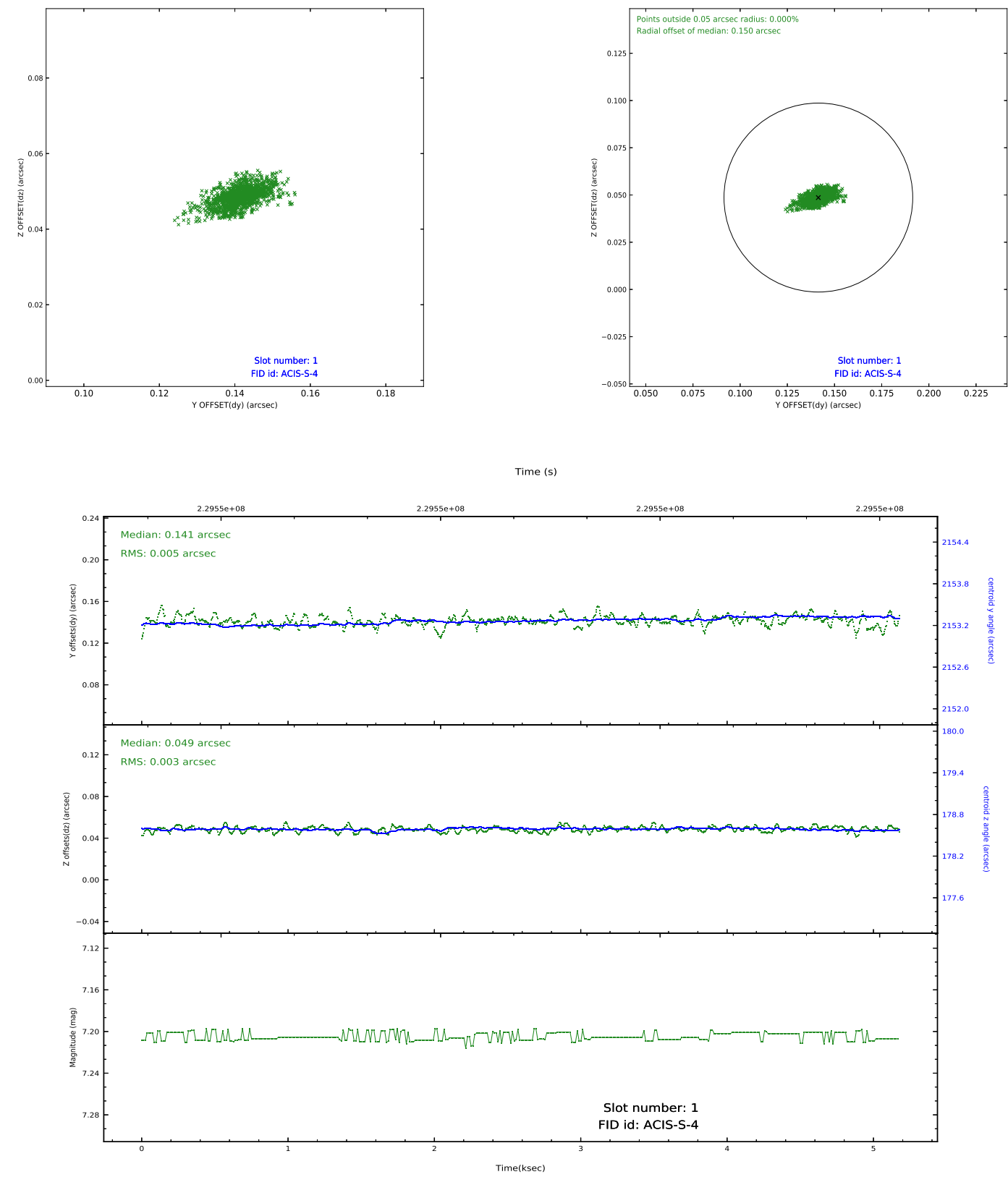


2.5 FID Slots

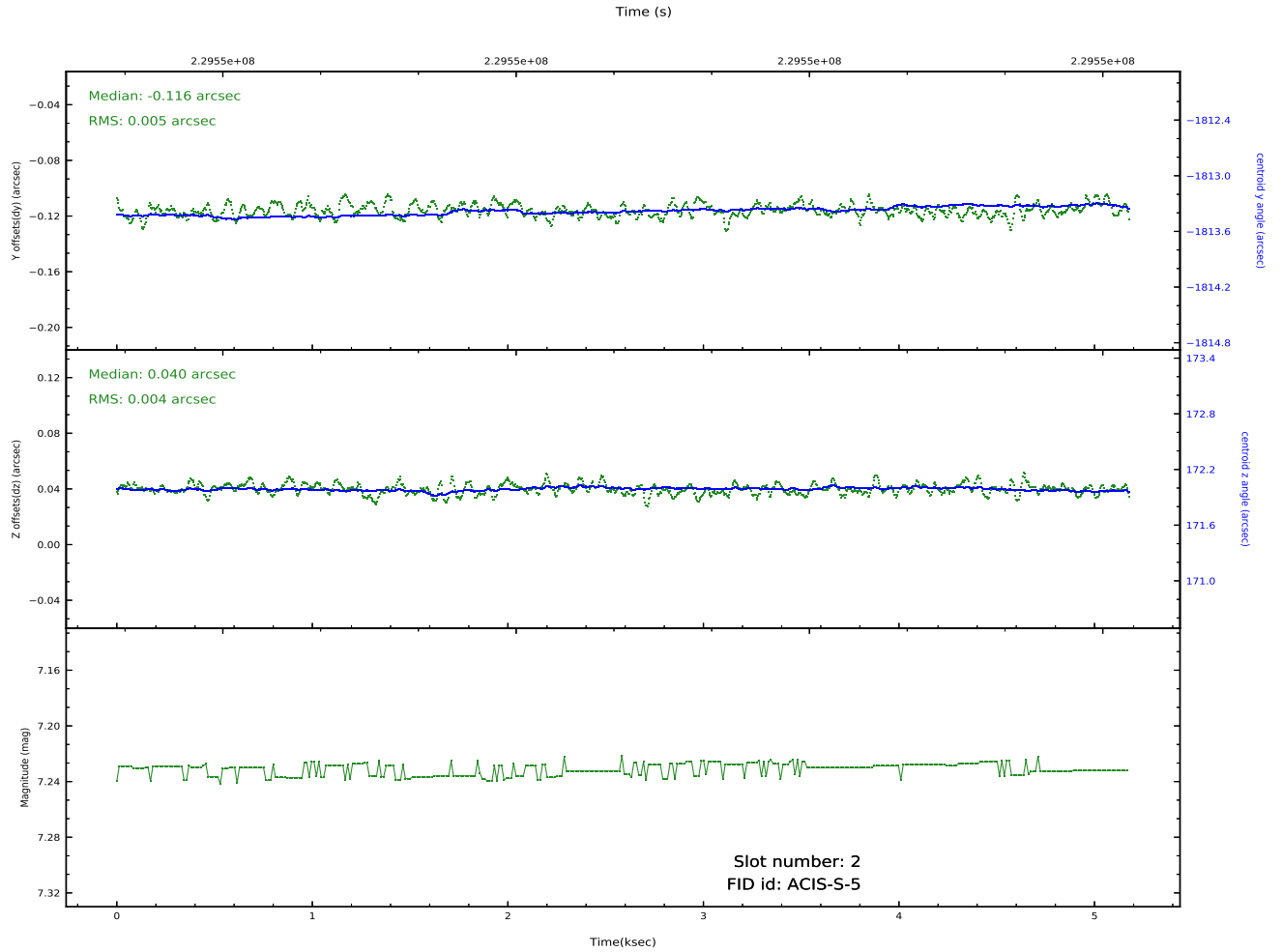
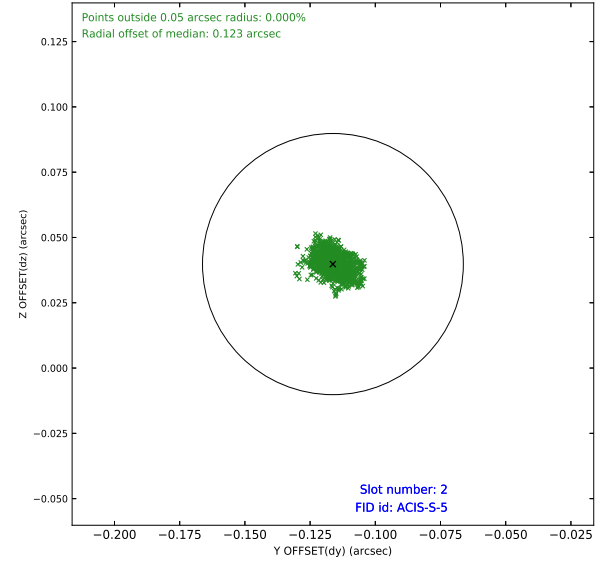
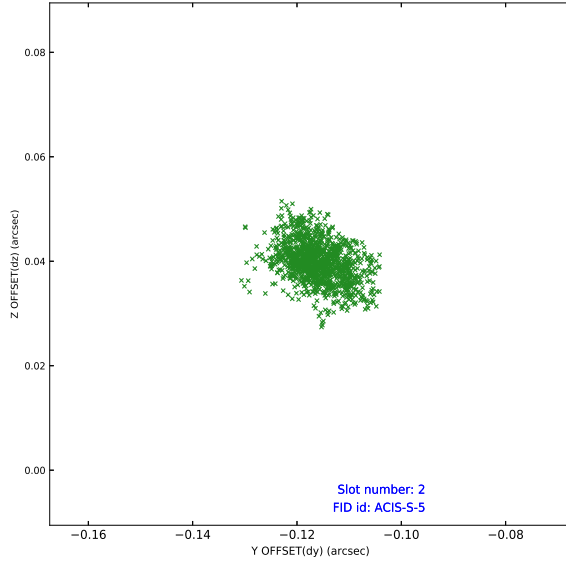
2.5.1 Slot 0



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	5.174399

A.2 Comments

Joint proposal with NOAO.

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The guide stars in slots 6 and 7 were removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of these slots from the solution.