

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 7200 - L2 Version 4
Chandra X-Ray Center

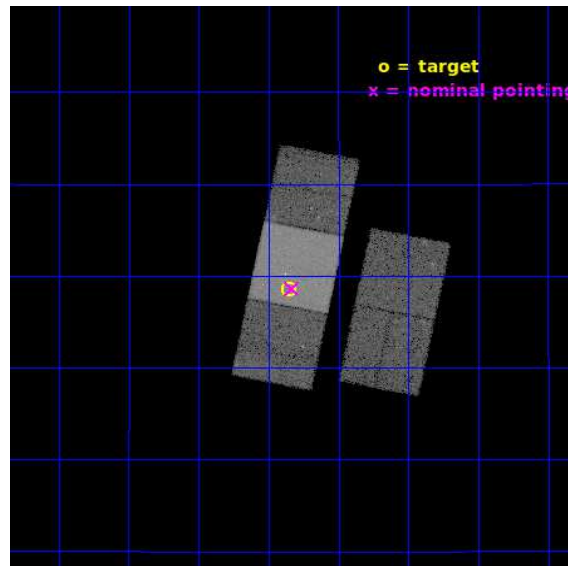
L2 Processing Date : Oct 11 2020

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1 Front

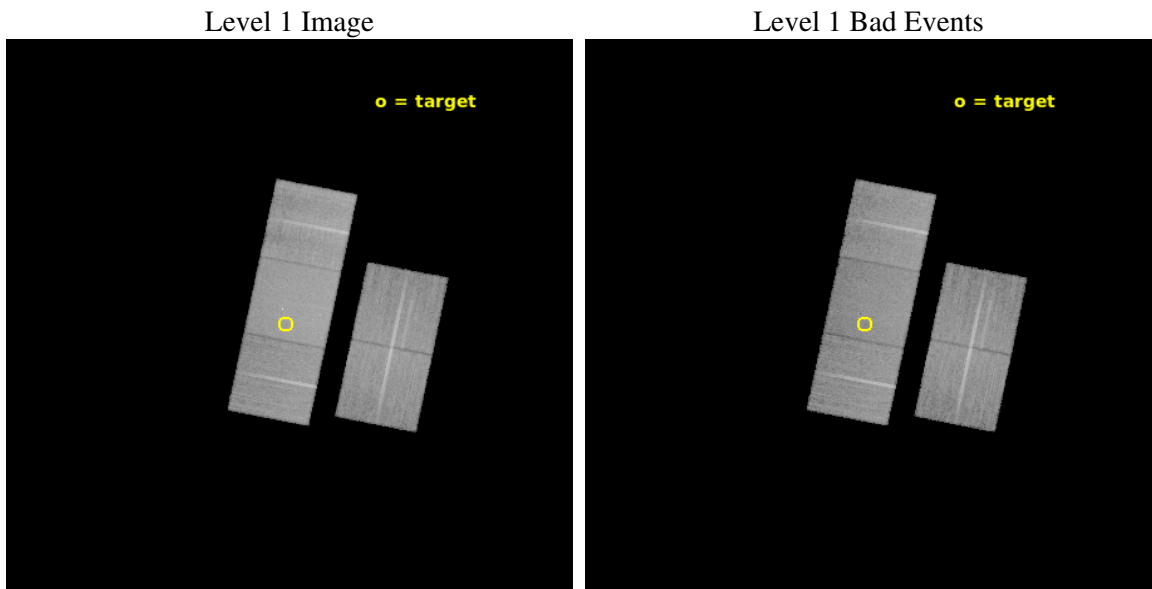
seq_num	701325	Sequence number
obs_id	7200	Observation id
title	A Chandra Study of Optical Hot-Spots in Two Nearby FR II Radio Galaxies	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	3C 33	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	17.213333	Observer's specified target RA [deg]
dec_targ	13.310119	Observer's specified target Dec [deg]
ra_nom	17.208233688112	Nominal RA [deg]
dec_nom	13.31016504531	Nominal Dec [deg]
roll_nom	281.46155678395	Nominal Roll [deg]
revision	4	Processing version of data
ontime	20184.099961162	Sum of GTIs [s]
livetime	19920.379835851	Livetime [s]
ontime2	20184.099961162	Sum of GTIs [s]
ontime3	20184.099961162	Sum of GTIs [s]
ontime6	20184.099961162	Sum of GTIs [s]
ontime7	20184.099961162	Sum of GTIs [s]
ontime8	20184.099961162	Sum of GTIs [s]
l2events	163252	Number of level 2 events



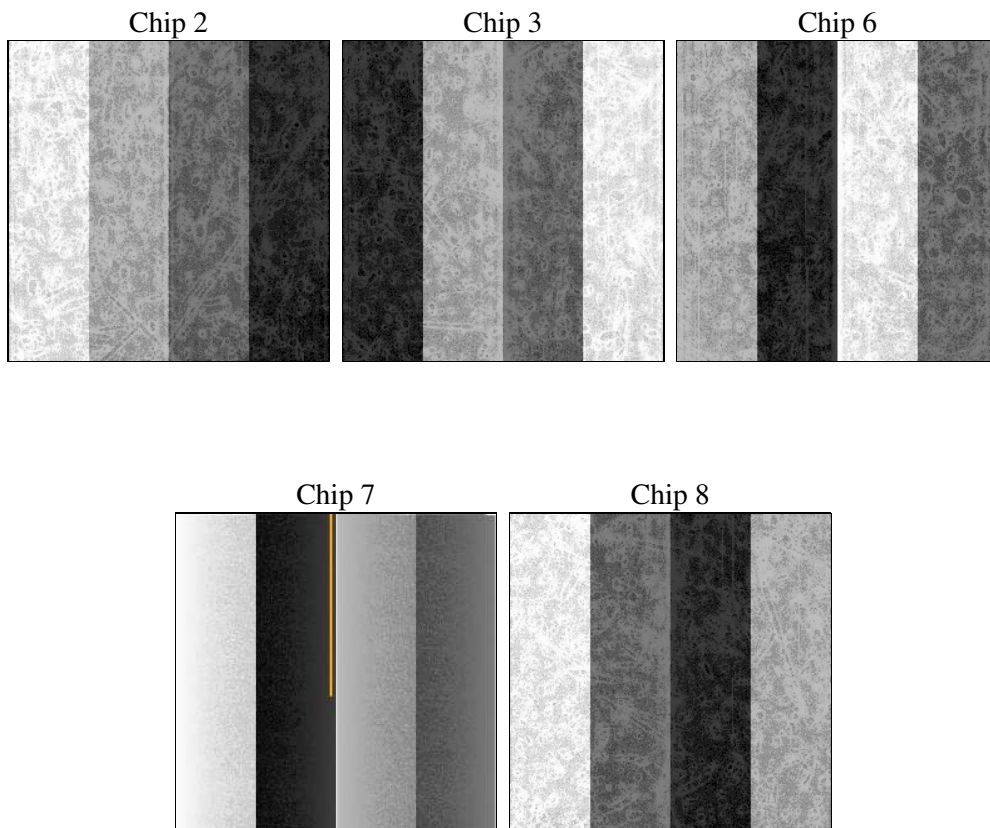
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	20184.099961162	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	20184.099961162	Sum of GTIs [s]
date	2020-10-11T14:51:28	Date and time of file creation	ontime3	20184.099961162	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	20184.099961162	Sum of GTIs [s]
			ontime7	20184.099961162	Sum of GTIs [s]
			ontime8	20184.099961162	Sum of GTIs [s]
			l1events	959859	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	168209	162576	175247	233248	220579
rejected events	148675	143672	153448	138532	173176
rejected %	88%	88%	87%	59%	78%

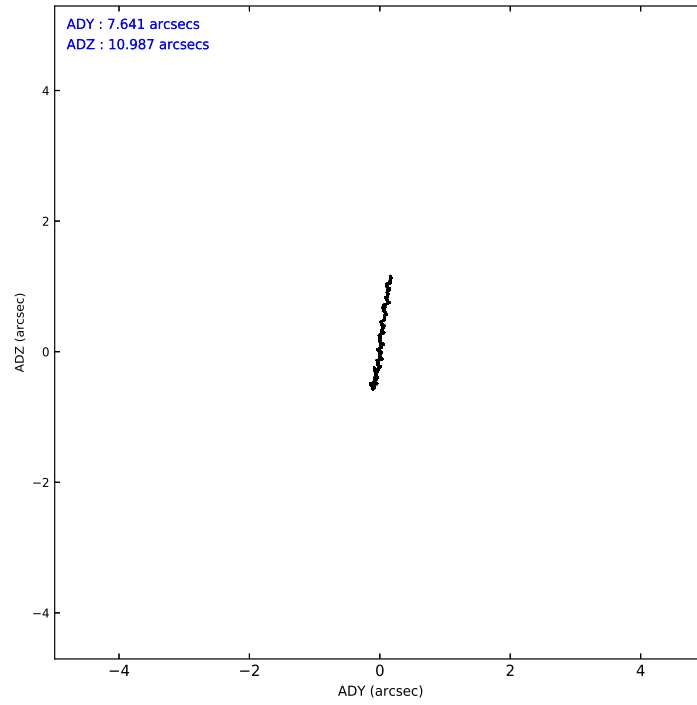
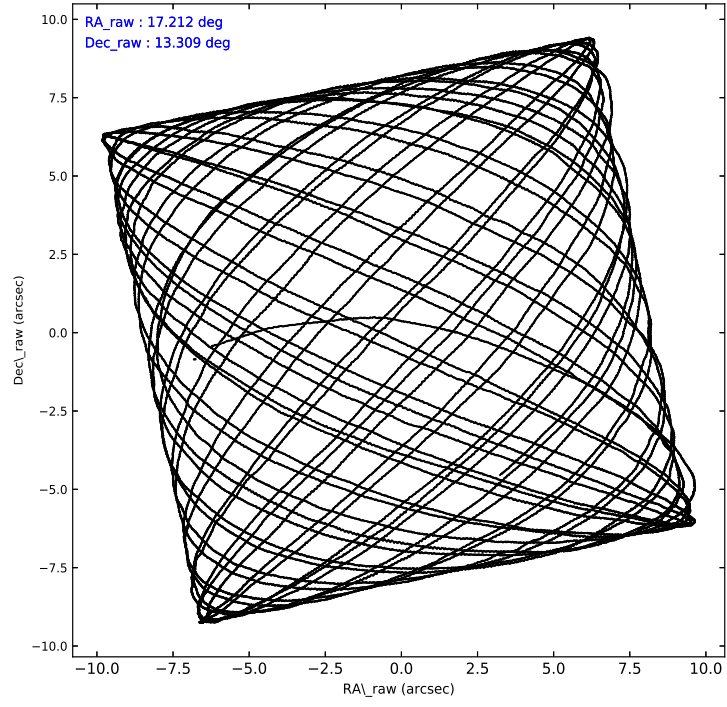
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	9111	8451	9608	9192	15725
	5%	5%	5%	3%	7%
grade 1 events	99	98	107	226	167
	0%	0%	0%	0%	0%
grade 2 events	3942	3685	4528	19626	10770
	2%	2%	2%	8%	4%
grade 3 events	1910	1887	2066	8609	4905
	1%	1%	1%	3%	2%
grade 4 events	1878	1874	1962	8733	4613
	1%	1%	1%	3%	2%
grade 5 events	6249	7516	8083	22181	10508
	3%	4%	4%	9%	4%
grade 6 events	3256	3547	4264	51544	12804
	1%	2%	2%	22%	5%
grade 7 events	141764	135518	144629	113137	161087
	84%	83%	82%	48%	73%

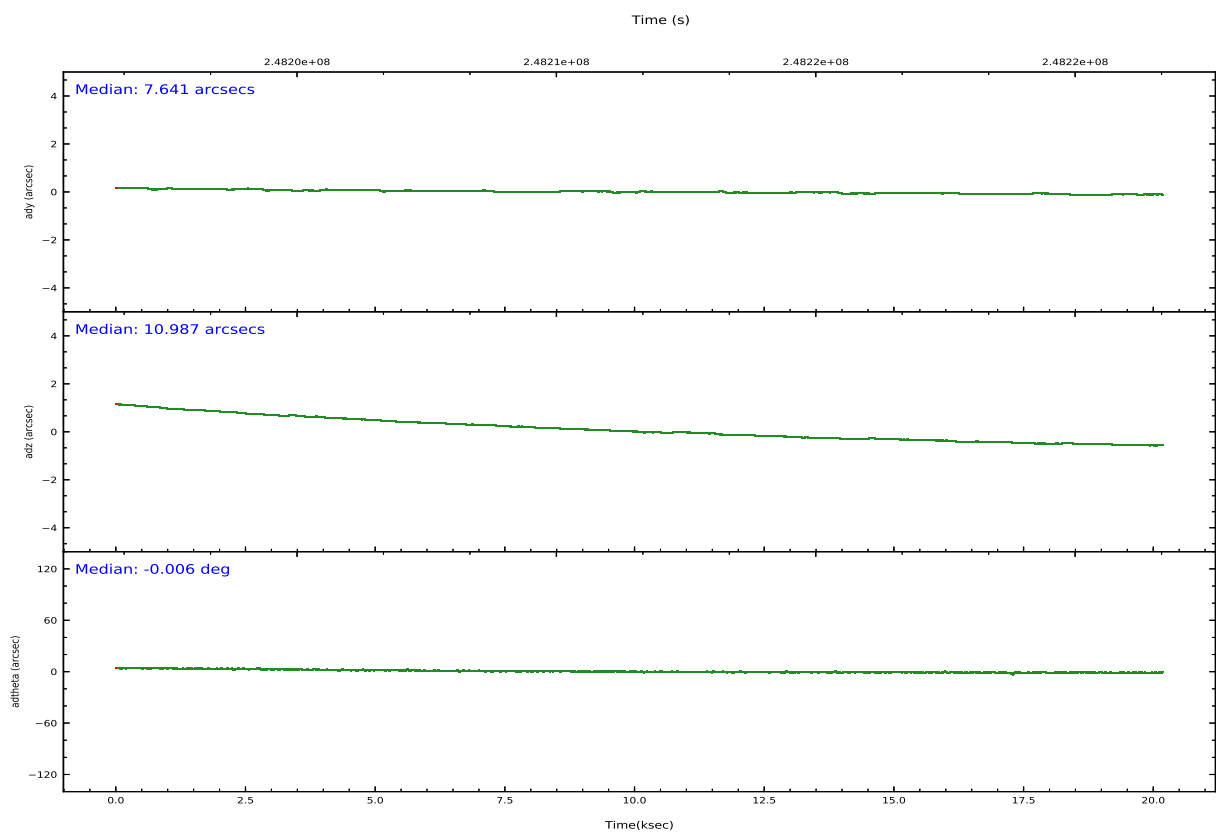
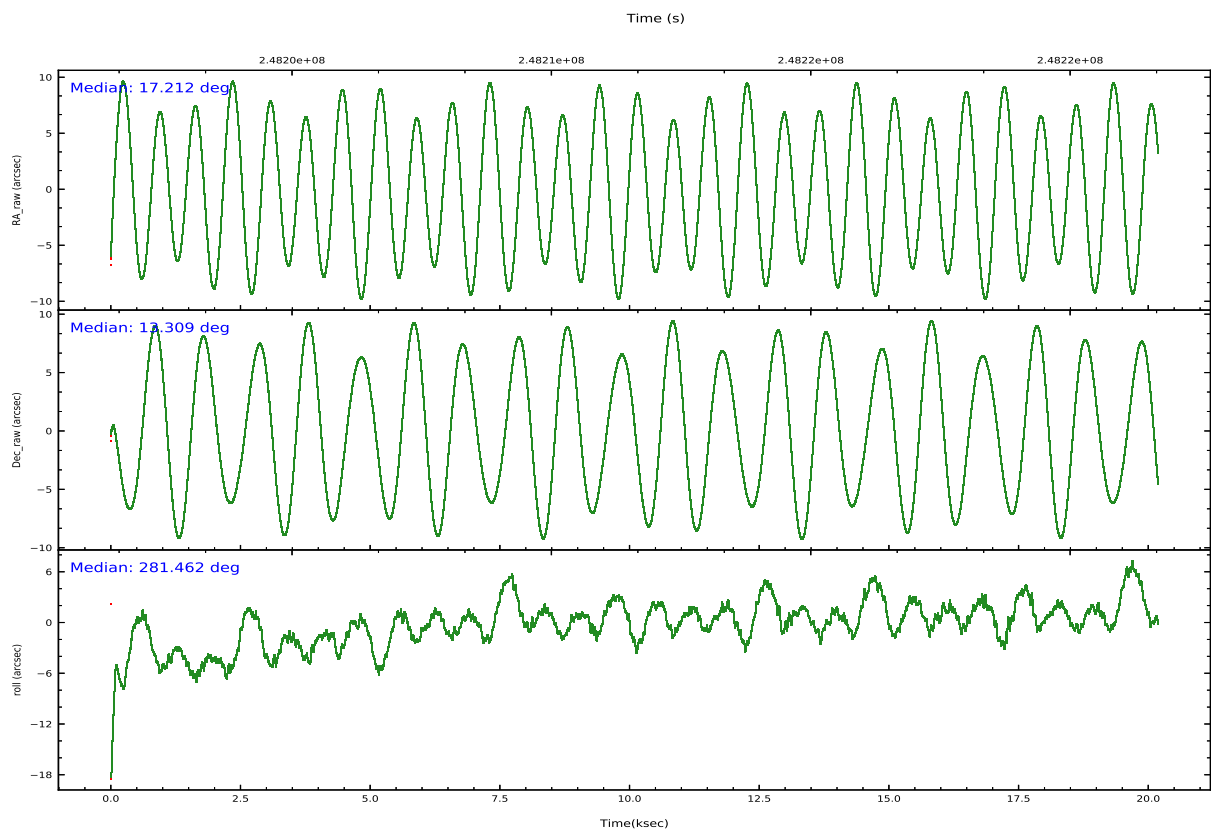
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	17.193096	17.208233688112
[deg] Pointing Dec	13.328733	13.31016504531
[deg] Pointing Roll	281.304669	281.46155678395
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	248201696.184000	248200333.73145
Observation start date	2005-11-12T16:53:52	2005-11-12T16:32:13
[s] Observation end time (MET)	248221696.184000	248222518.31997
Observation end date	2005-11-12T22:27:12	2005-11-12T22:41:58
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	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



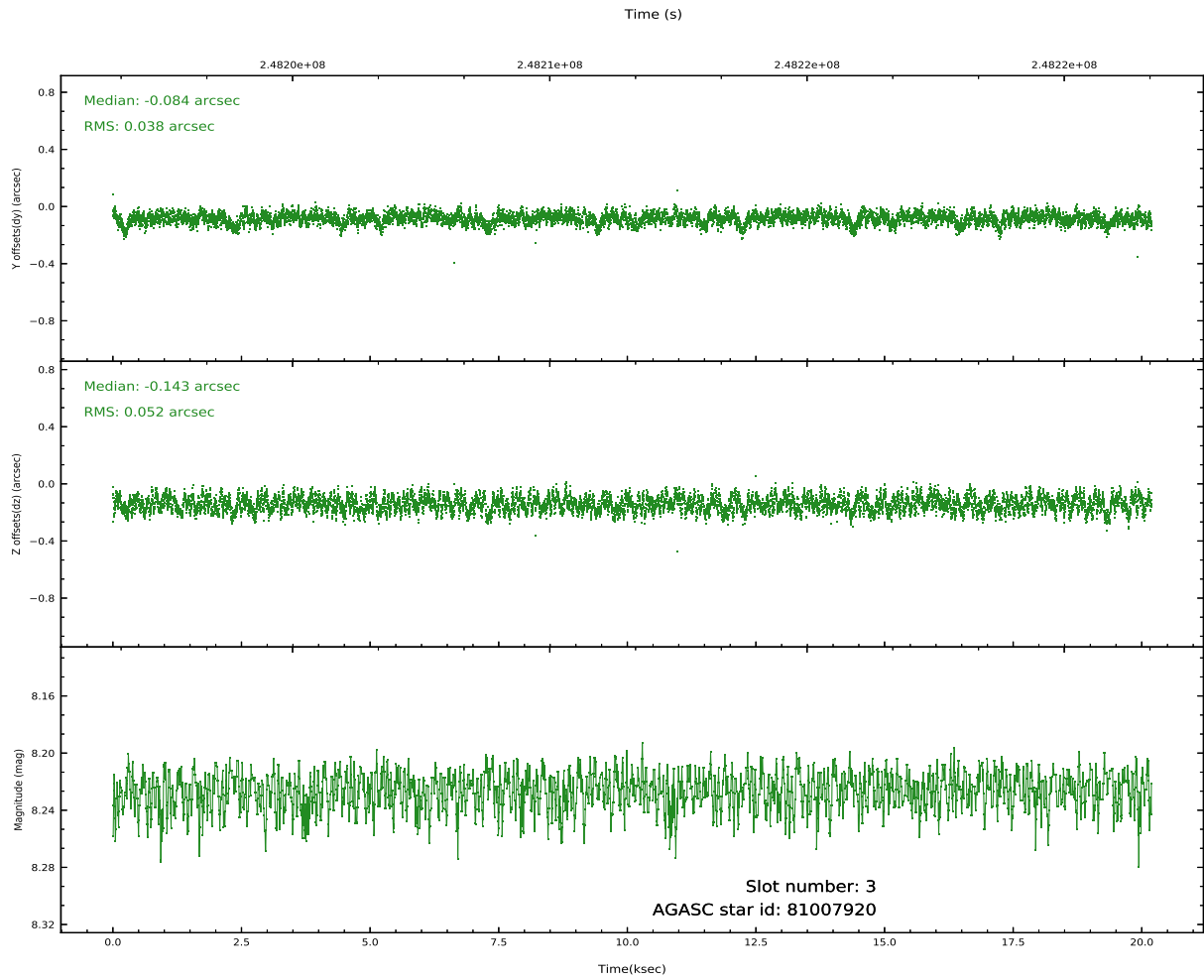
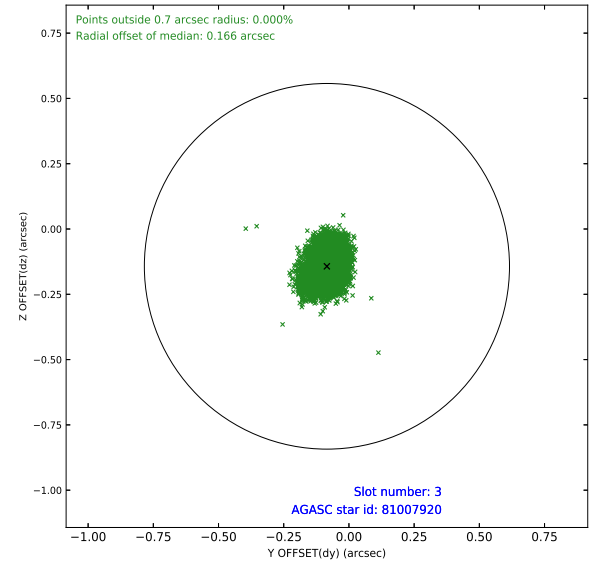
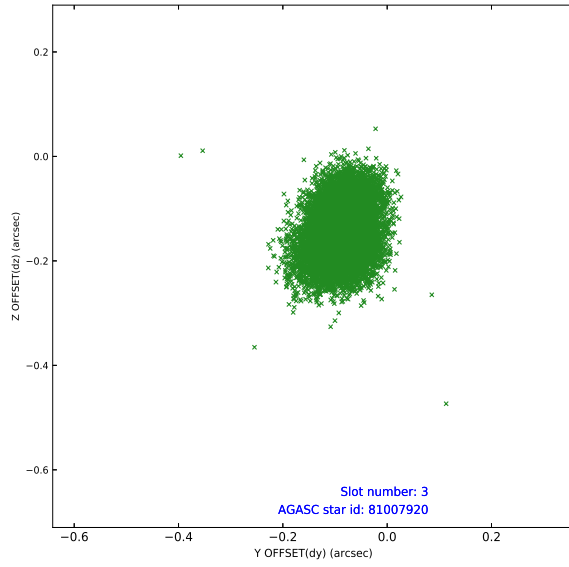


Slot Statistics

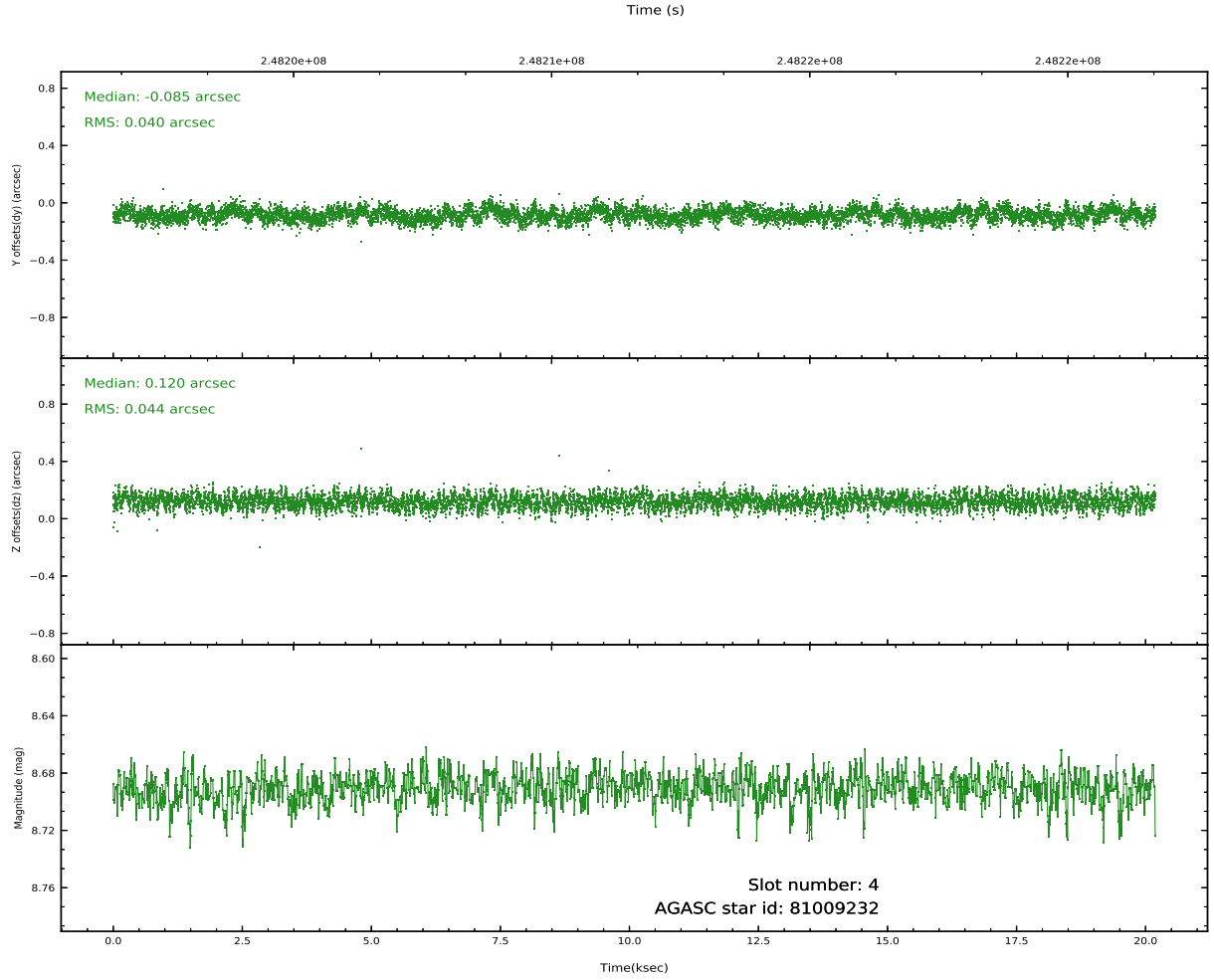
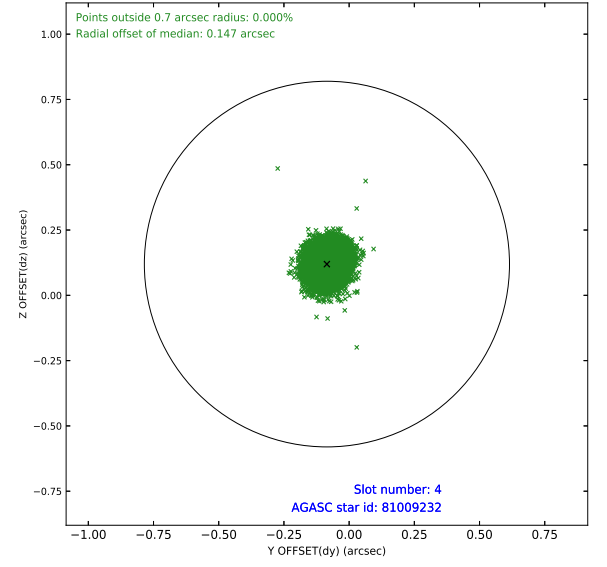
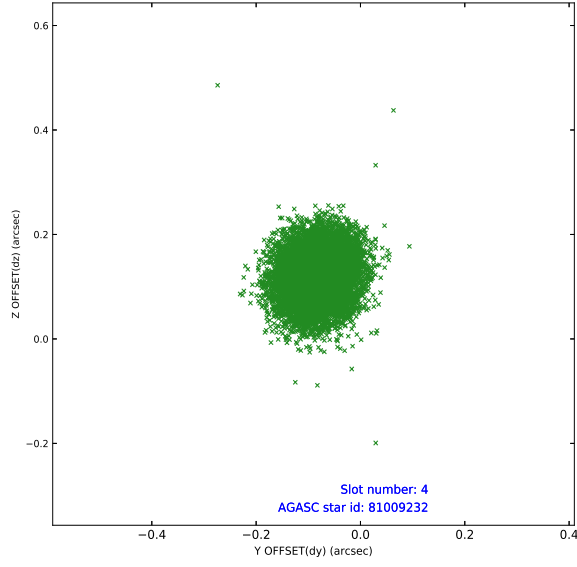
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	4925	1.000	-0.071	-0.057	0.012	0.024	0.000000	0.000000	-760.42	-1732
1	FID		ACIS-S-4	7.21	4923	1.000	0.157	0.049	0.010	0.018	0.000000	0.000000	2152.93	176
2	FID		ACIS-S-5	7.23	4925	1.000	-0.118	0.015	0.010	0.020	0.000000	0.000000	-1813.14	169
3	GUIDE	used	81007920	8.23	9848	1.000	-0.084	-0.143	0.070	0.110	16.552631	13.252748	-173.89	-2252
4	GUIDE	used	81009232	8.69	9844	1.000	-0.085	0.120	0.064	0.101	17.046481	13.691825	-1382.14	-246
5	GUIDE	used	81011112	8.75	9847	1.000	0.135	0.107	0.066	0.107	17.296463	12.693067	2315.35	-92
6	GUIDE	used	81012328	9.65	9825	1.000	0.277	0.044	0.102	0.164	17.237006	12.753828	2060.70	-254
7	GUIDE	used	81005408	7.42	9849	1.000	-0.241	-0.124	0.062	0.095	16.652176	13.884607	-2334.30	-1460

2.4 Star Slots

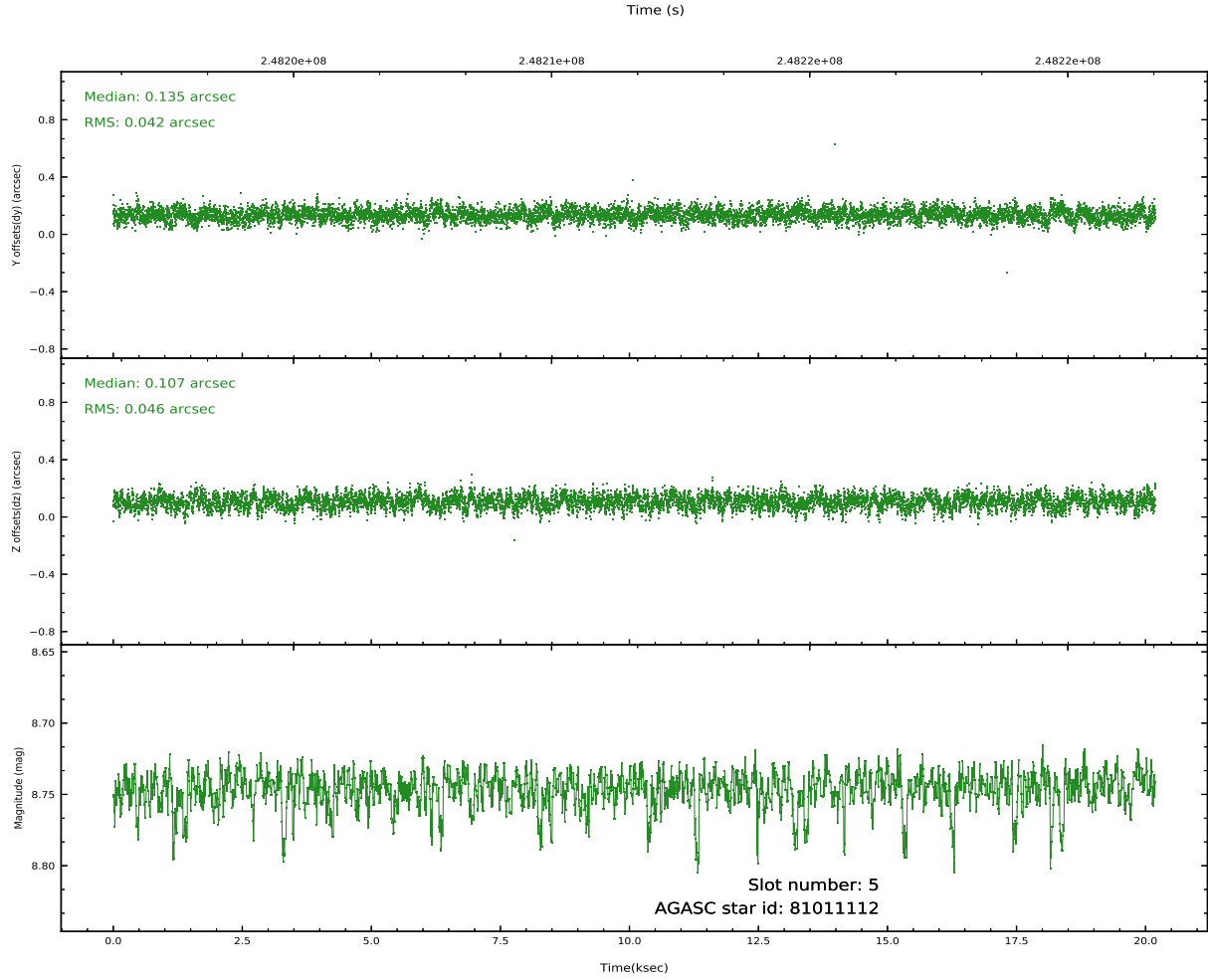
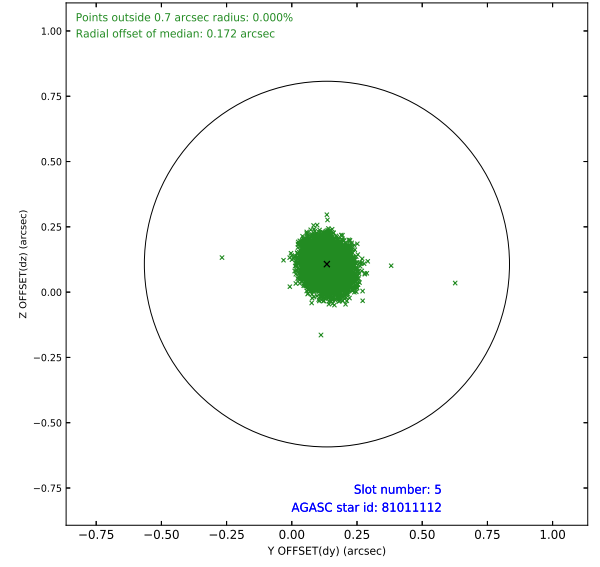
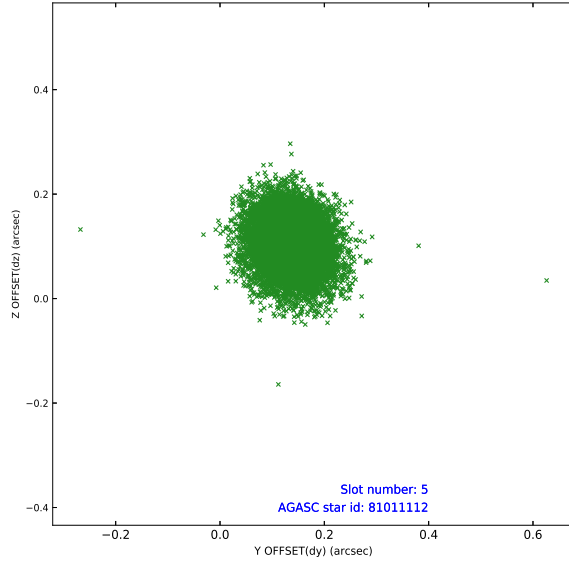
2.4.1 Slot 3



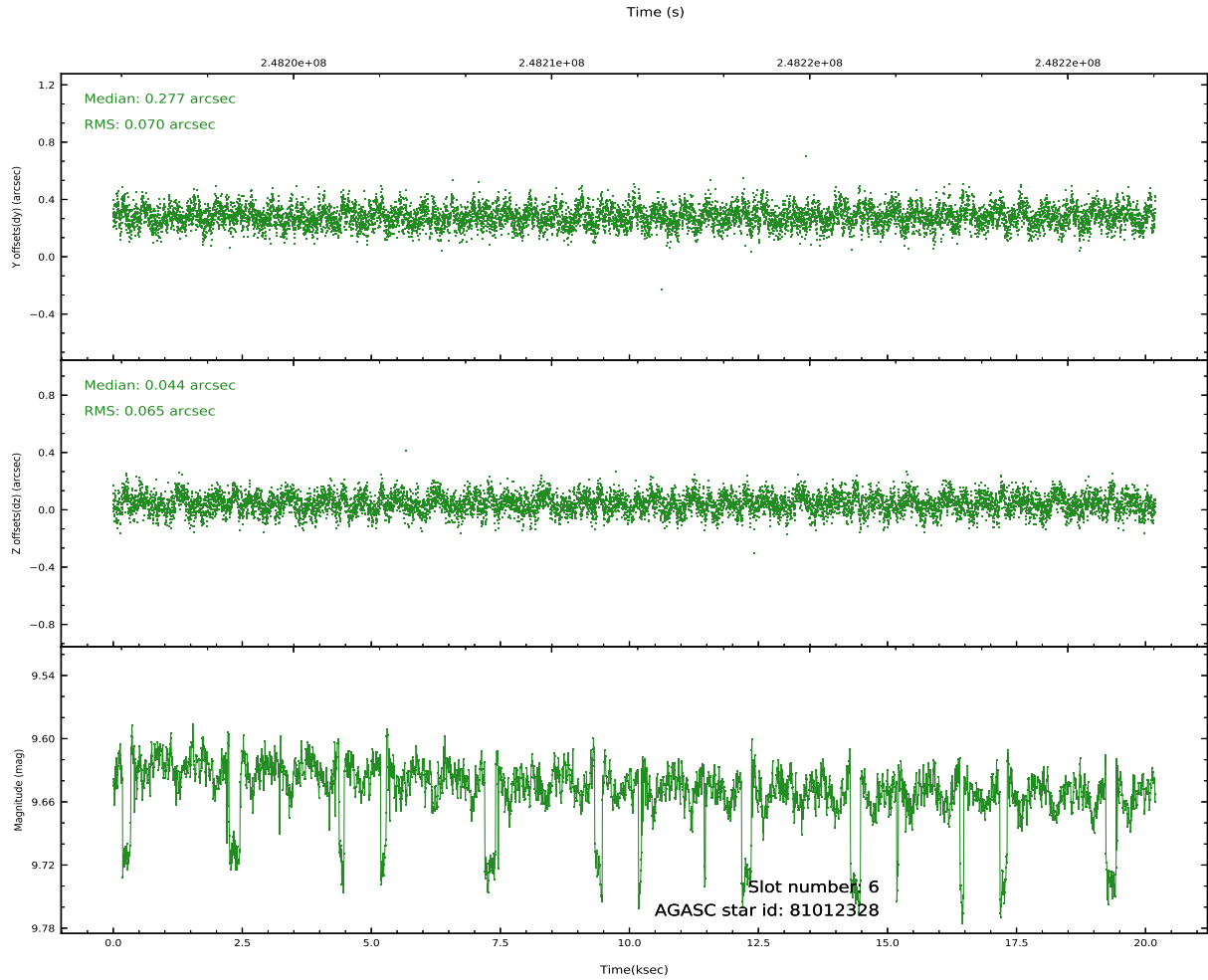
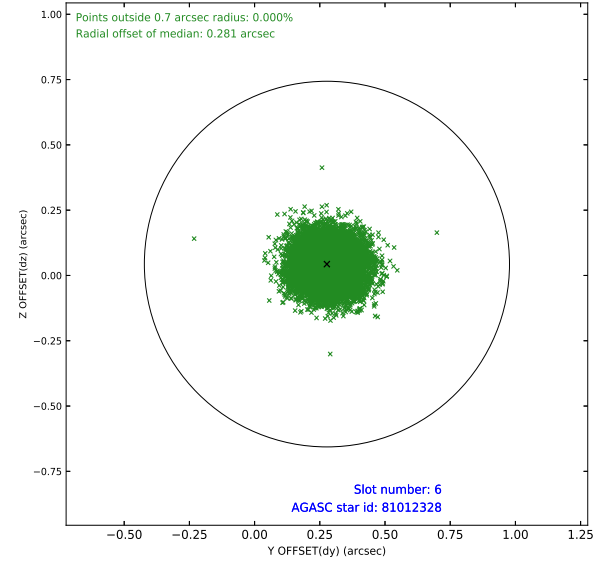
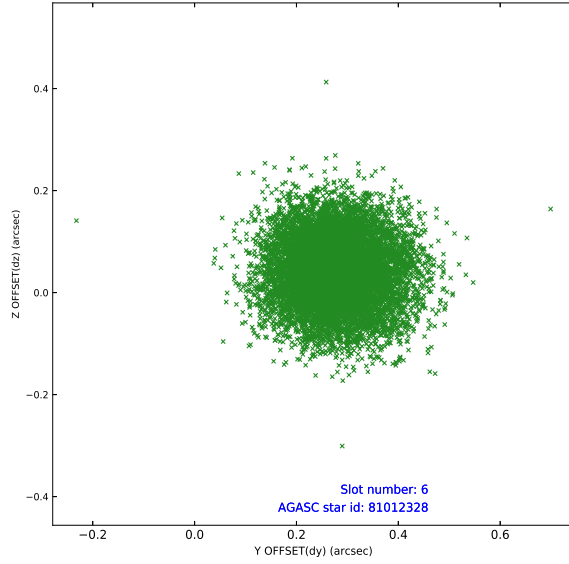
2.4.2 Slot 4



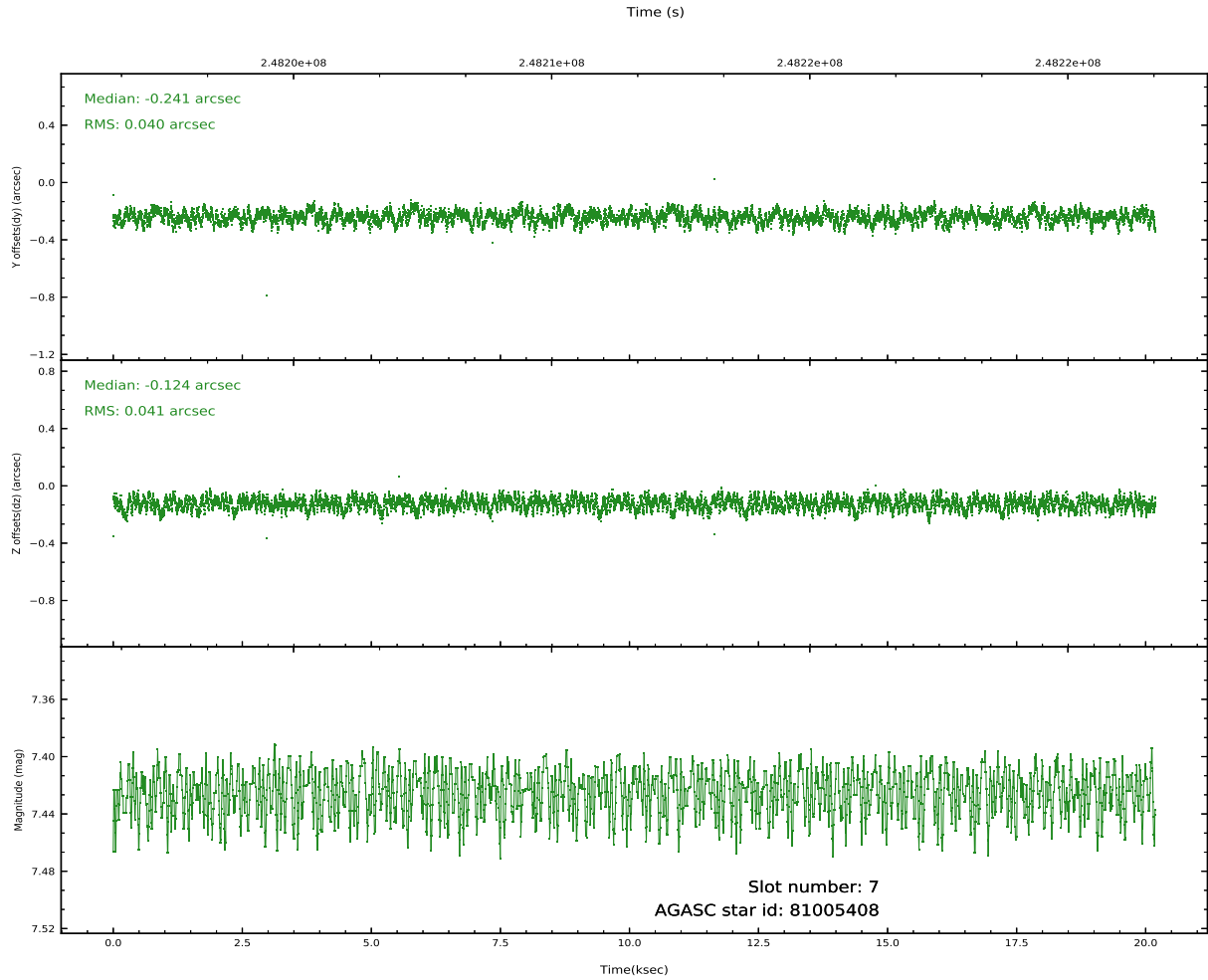
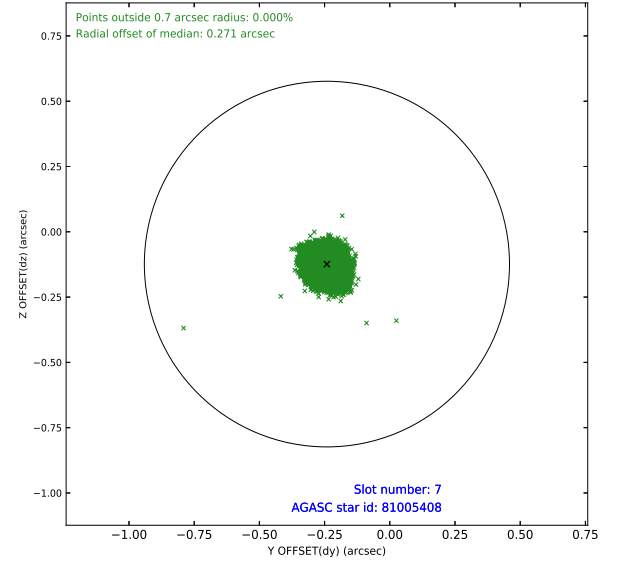
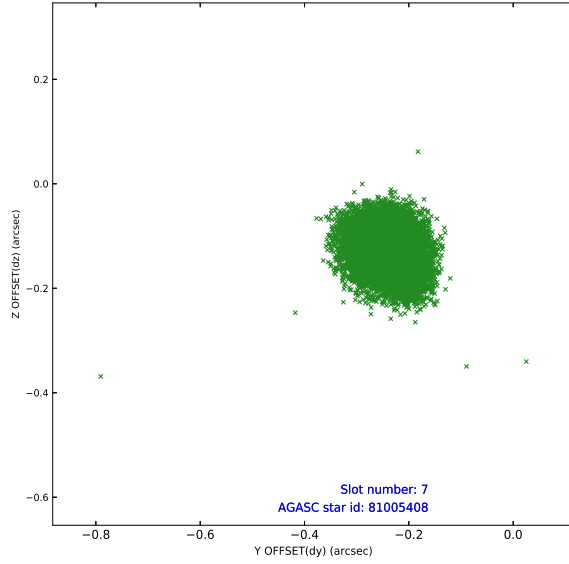
2.4.3 Slot 5



2.4.4 Slot 6

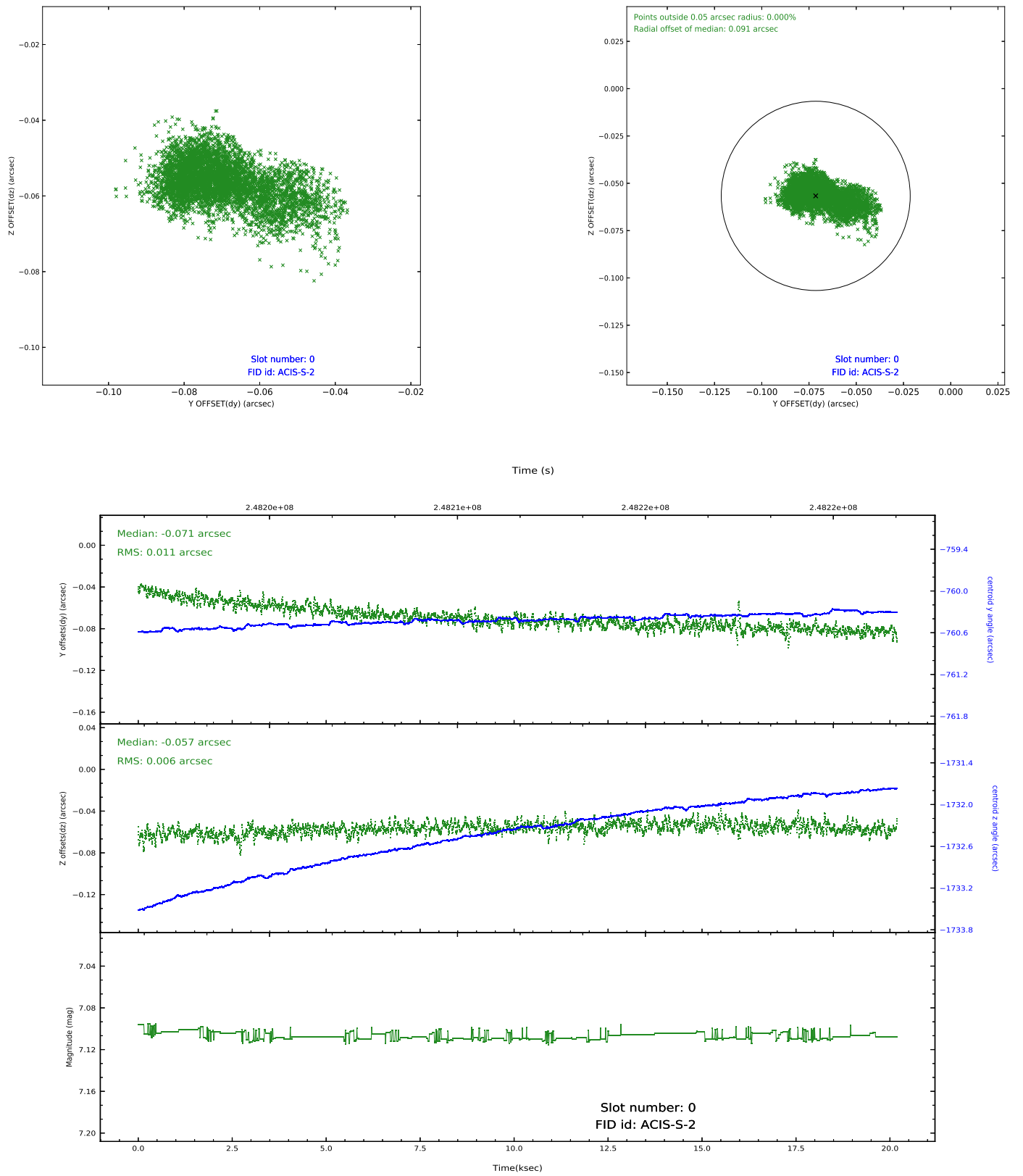


2.4.5 Slot 7

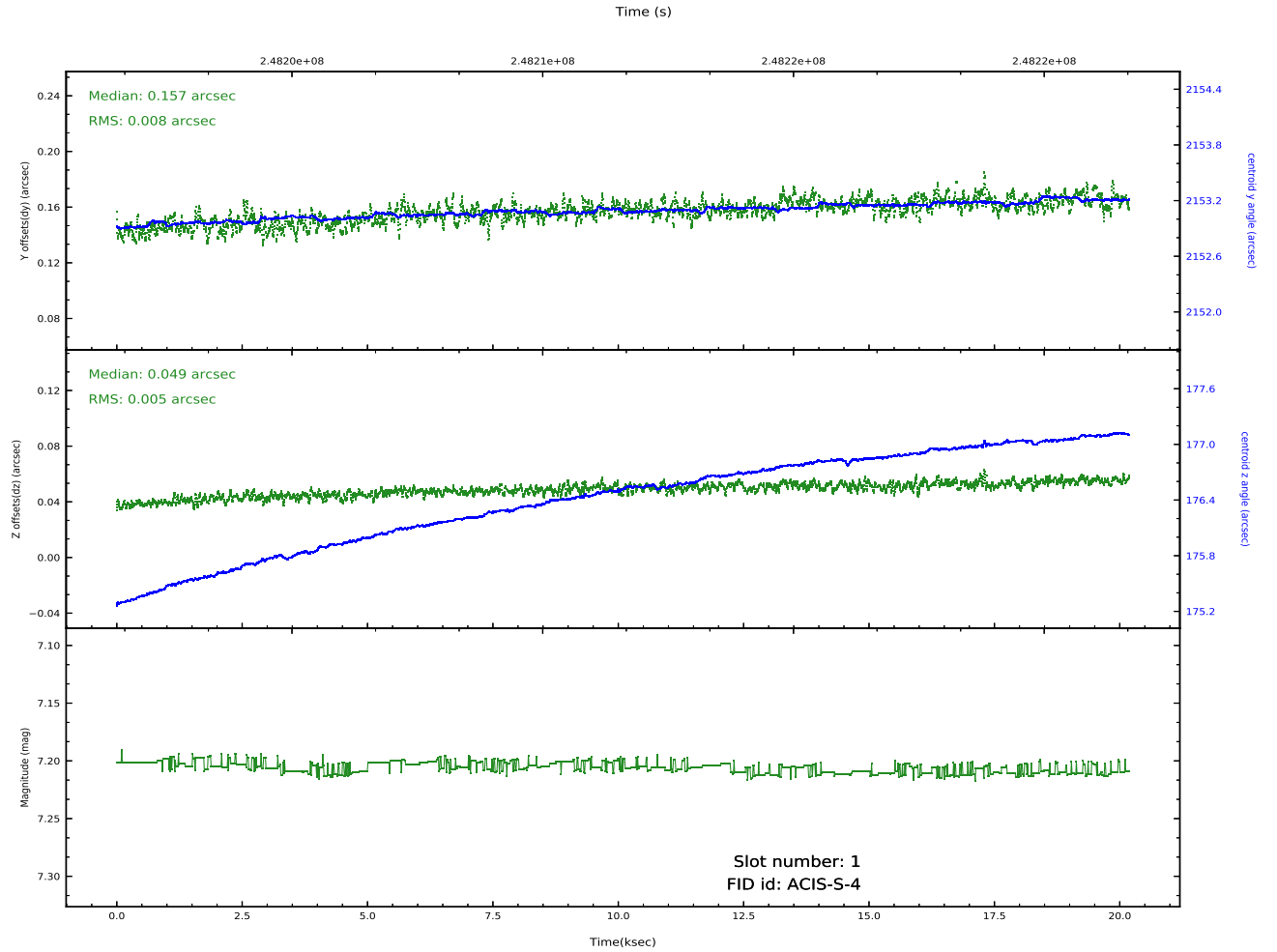
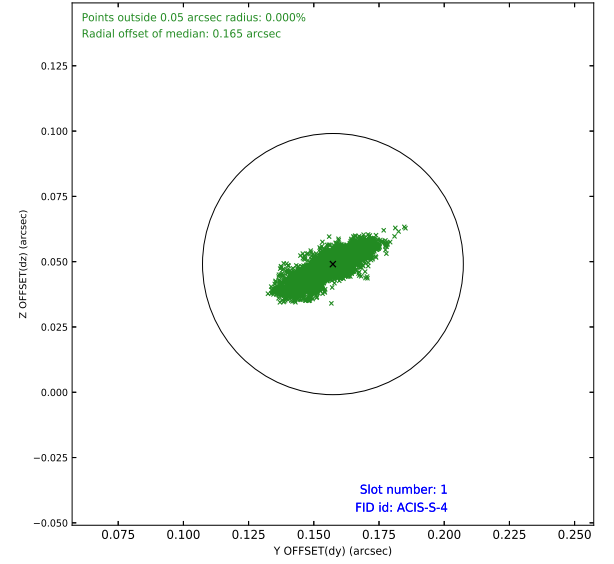
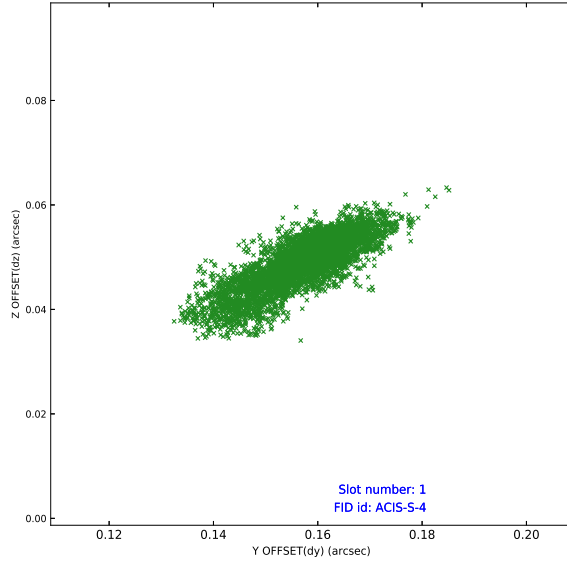


2.5 FID Slots

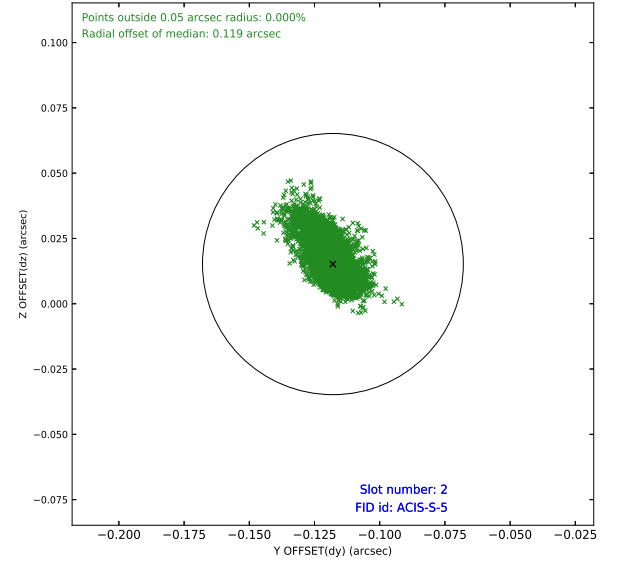
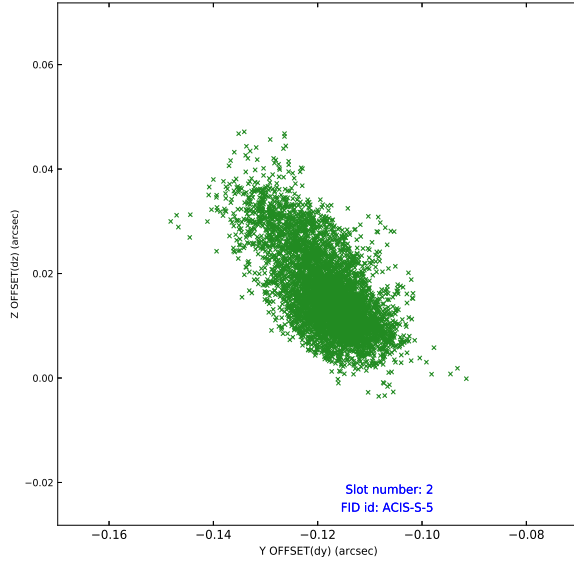
2.5.1 Slot 0



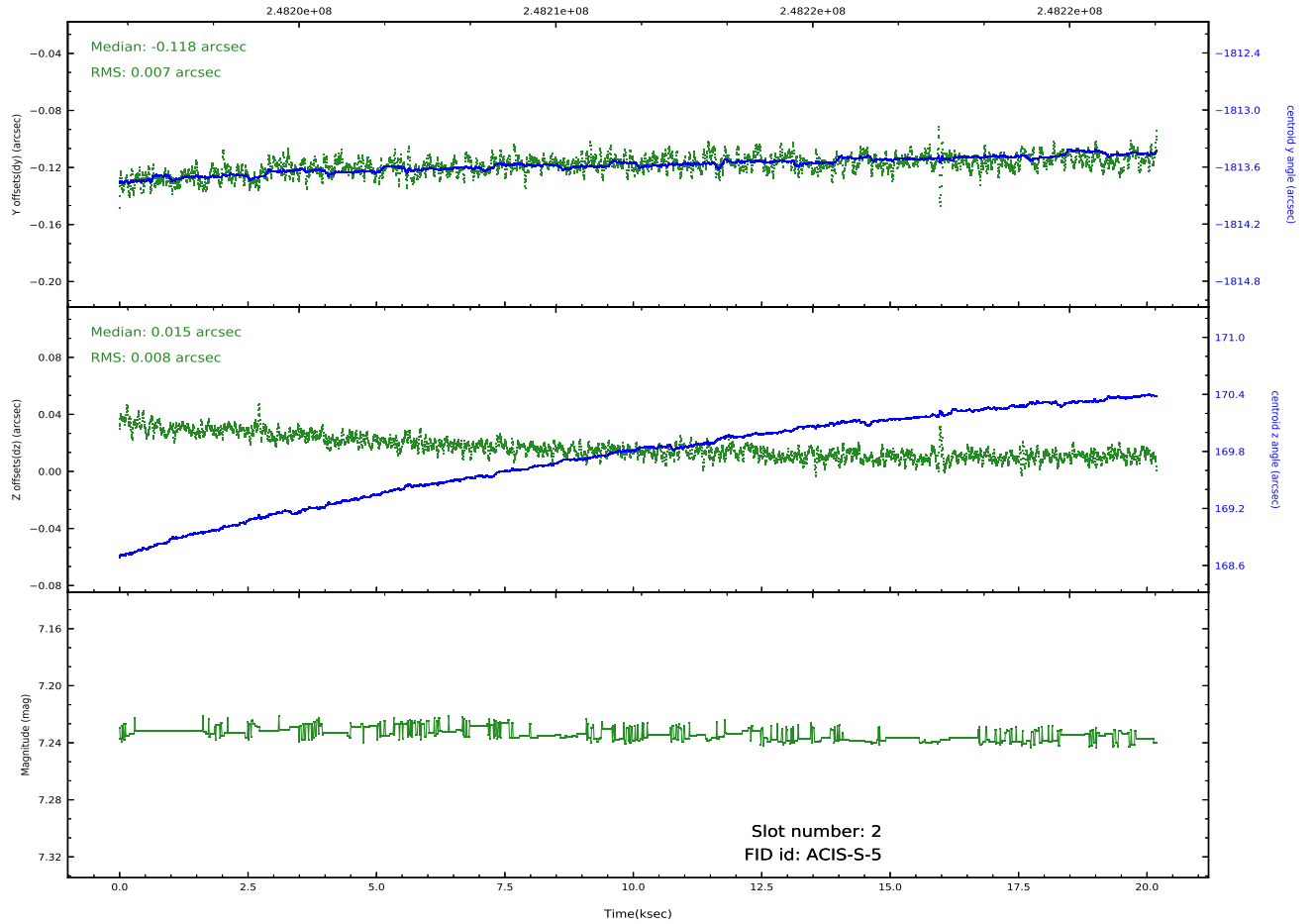
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.18409

A.2 Comments