

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 21027 - L2 Version 2
Chandra X-Ray Center

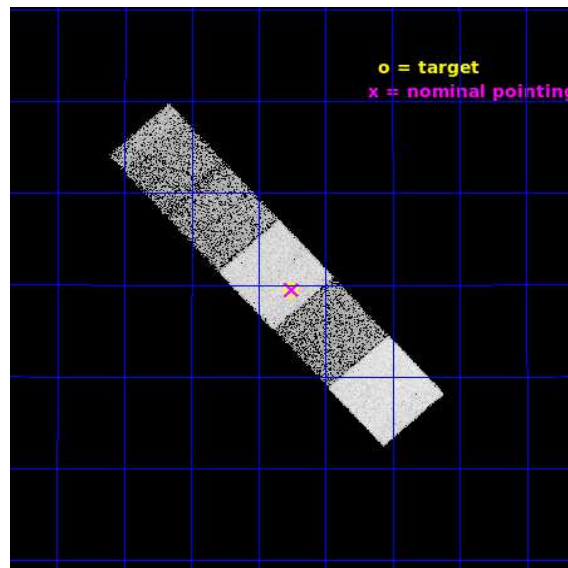
L2 Processing Date : Oct 25 2020

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1 Front

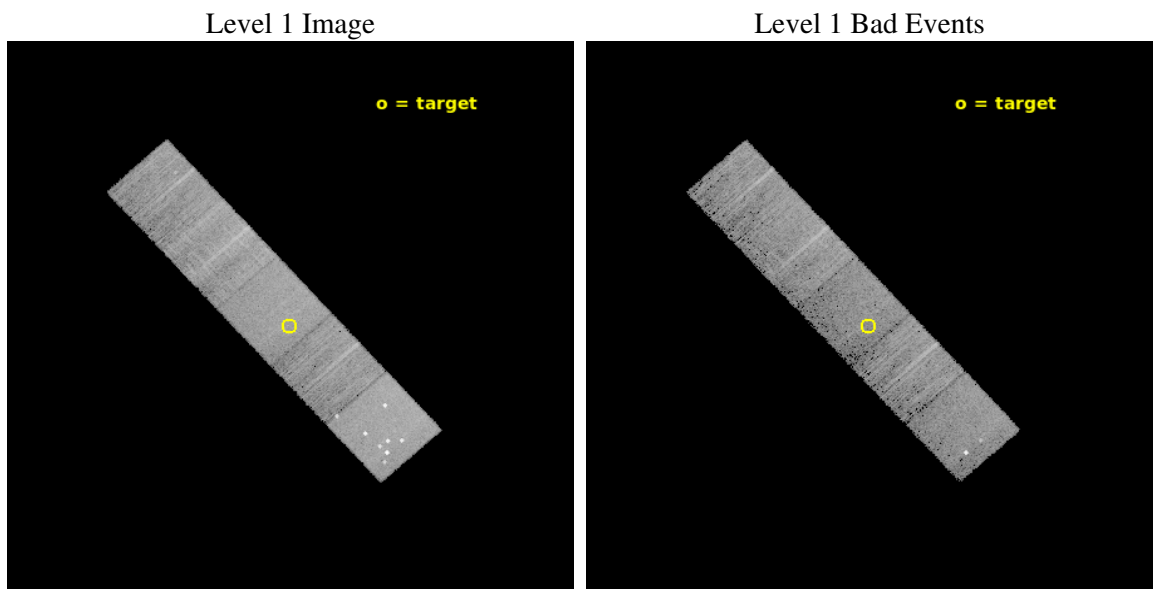
seq_num	703668	Sequence number
obs_id	21027	Observation id
title	LOW SURFACE BRIGHTNESS GALAXIES AND THE BLACK HOLE OCCUPATION FRACTION	Proposal title
observer	Elena Gallo	Principal investigator
object	UGC 05750	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	158.937917	Observer's specified target RA [deg]
dec_targ	20.99025	Observer's specified target Dec [deg]
ra_nom	158.93765409142	Nominal RA [deg]
dec_nom	20.991568787405	Nominal Dec [deg]
roll_nom	227.74461059861	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6792.1000523567	Sum of GTIs [s]
livetime	6703.3562649014	Livetime [s]
ontime5	6792.1000523567	Sum of GTIs [s]
ontime6	6792.1000523567	Sum of GTIs [s]
ontime7	6792.1000523567	Sum of GTIs [s]
ontime8	6785.7771326303	Sum of GTIs [s]
ontime9	6792.0182433128	Sum of GTIs [s]
l2events	81933	Number of level 2 events



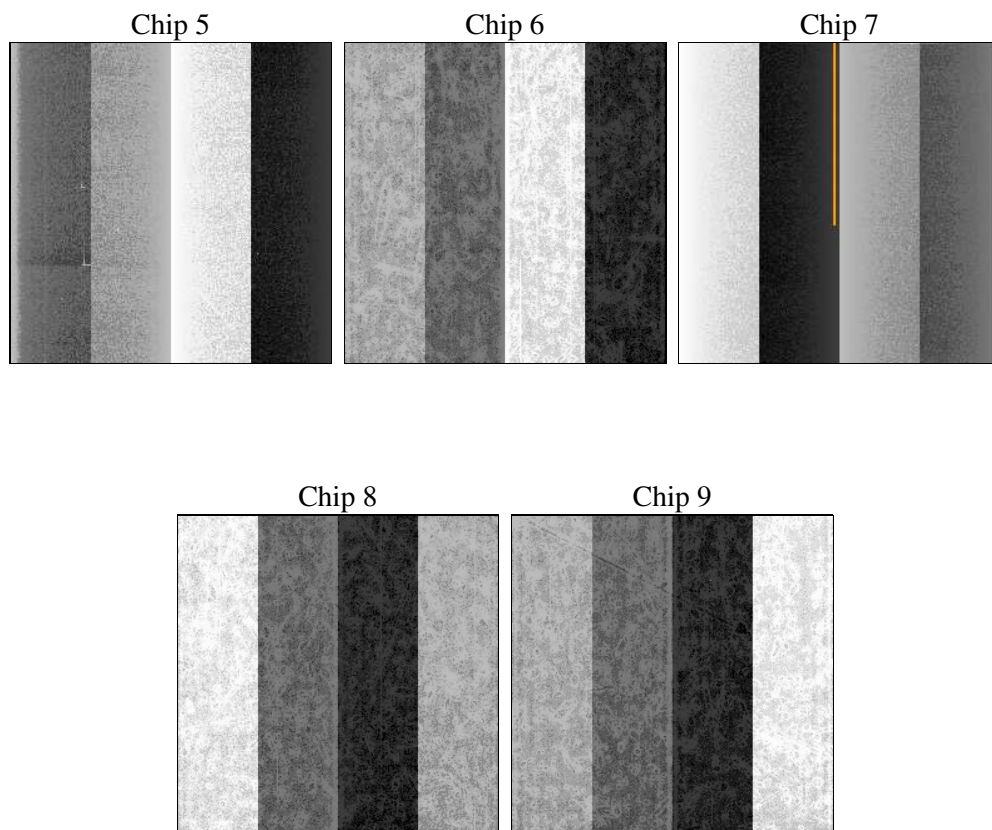
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6900.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	6792.1000523567	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	6792.1000523567	Sum of GTIs [s]
date	2020-10-25T04:05:05	Date and time of file creation	ontime6	6792.1000523567	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	6792.1000523567	Sum of GTIs [s]
			ontime8	6785.7771326303	Sum of GTIs [s]
			ontime9	6792.0182433128	Sum of GTIs [s]
			l1events	342433	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	95674	53158	66918	72942	53741
rejected events	45918	47266	38142	54065	47323
rejected %	47%	88%	56%	74%	88%

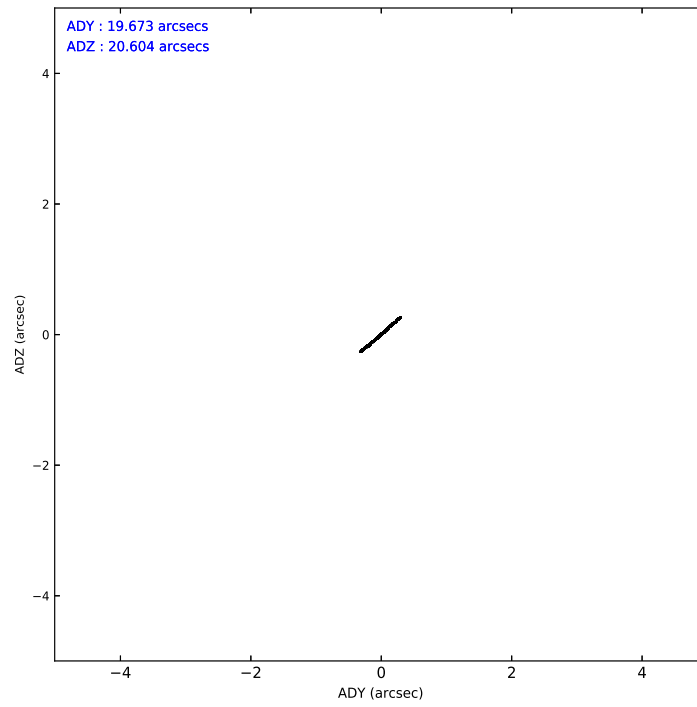
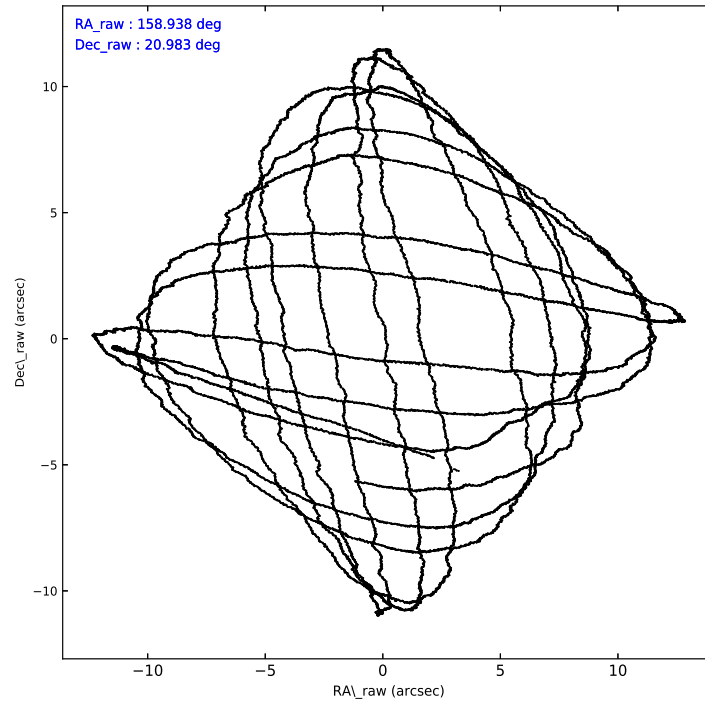
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	10663	1951	2388	5019	2413
	11%	3%	3%	6%	4%
grade 1 events	231	16	67	68	32
	0%	0%	0%	0%	0%
grade 2 events	13976	1464	6230	4672	1423
	14%	2%	9%	6%	2%
grade 3 events	1674	525	2232	2087	633
	1%	0%	3%	2%	1%
grade 4 events	1353	541	2277	1816	604
	1%	1%	3%	2%	1%
grade 5 events	5639	2339	6551	3646	2718
	5%	4%	9%	4%	5%
grade 6 events	22135	1418	15673	5303	1350
	23%	2%	23%	7%	2%
grade 7 events	40003	44904	31500	50331	44568
	41%	84%	47%	69%	82%

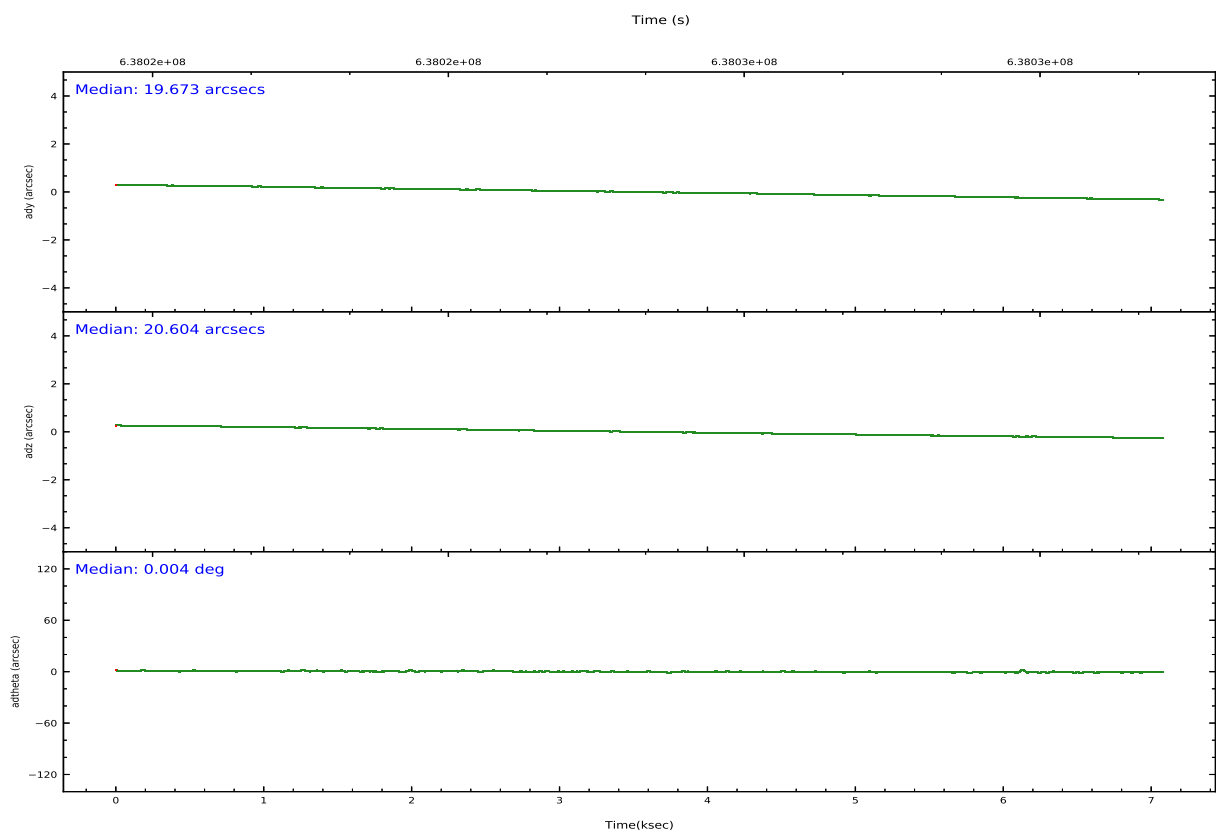
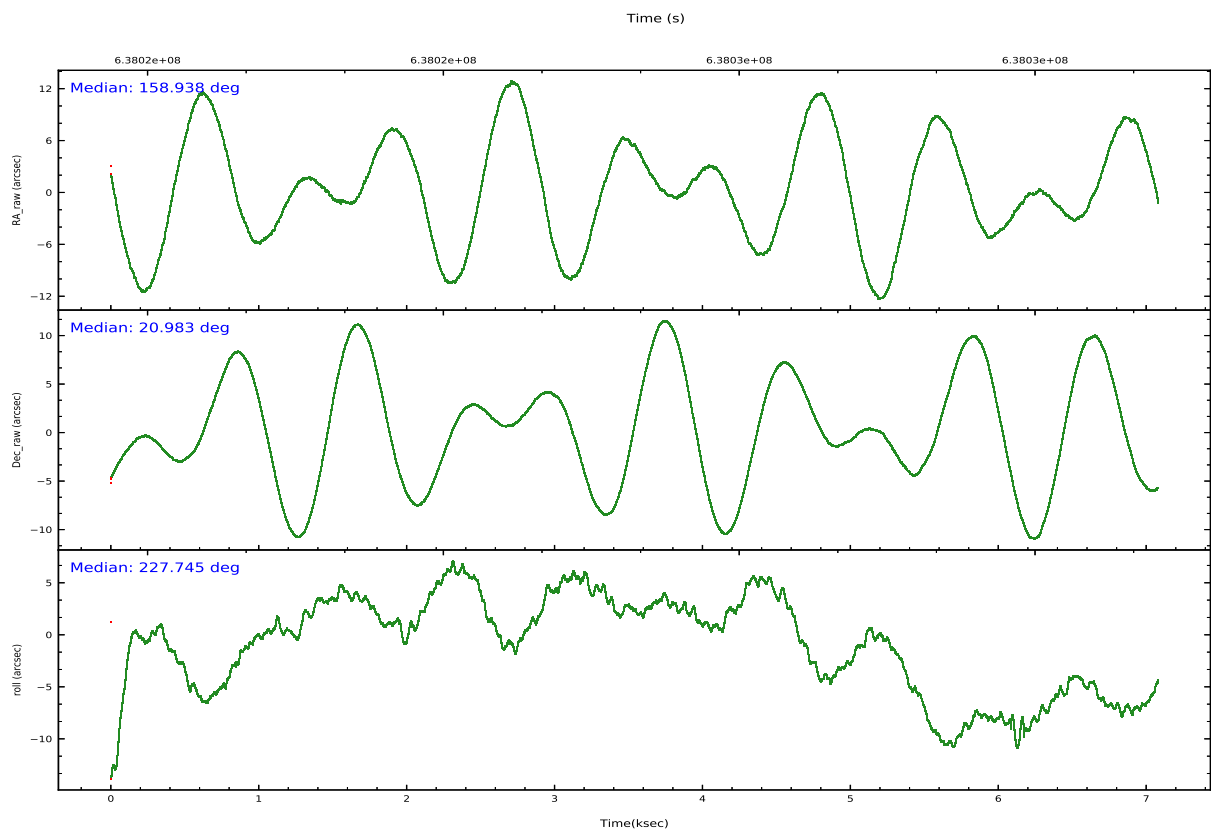
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-56789	ACIS-56789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	158.944136	158.93765409142
[deg] Pointing Dec	21.010314	20.991568787405
[deg] Pointing Roll	227.591259	227.74461059861
[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)	638021933.184000	638021343.69415
Observation start date	2018-03-21T12:17:44	2018-03-21T12:09:03
[s] Observation end time (MET)	638028833.184000	638029514.4821399
Observation end date	2018-03-21T14:12:44	2018-03-21T14:25:14
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	O1	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	O2	Y
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



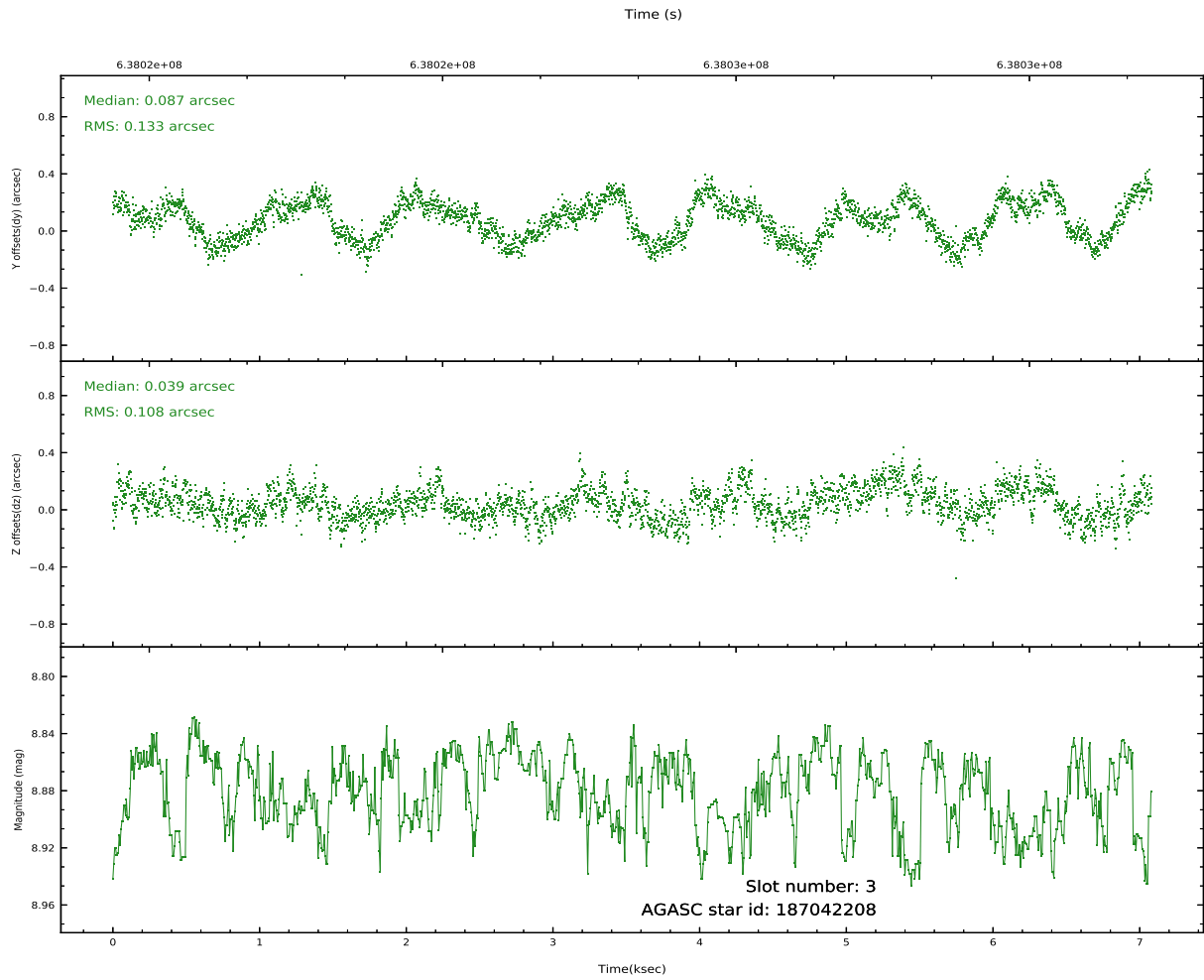
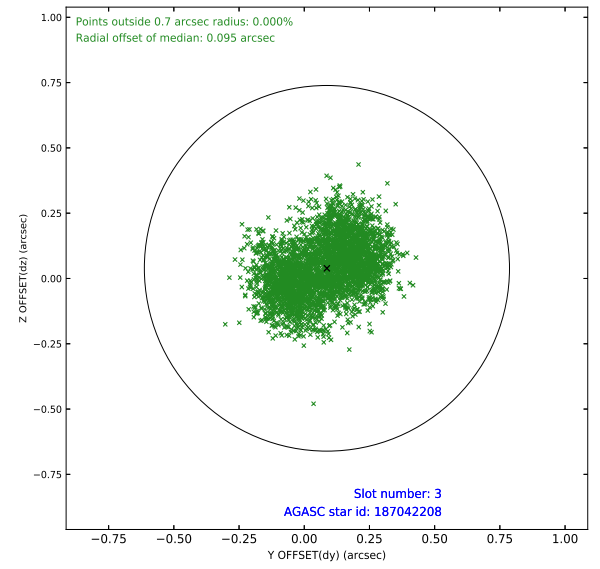
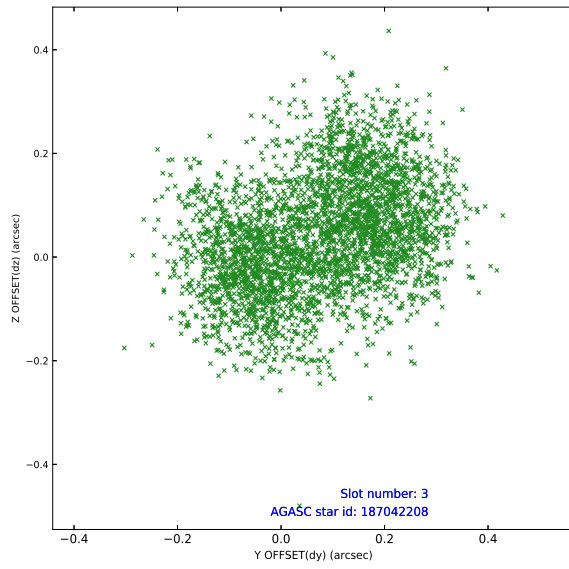


Slot Statistics

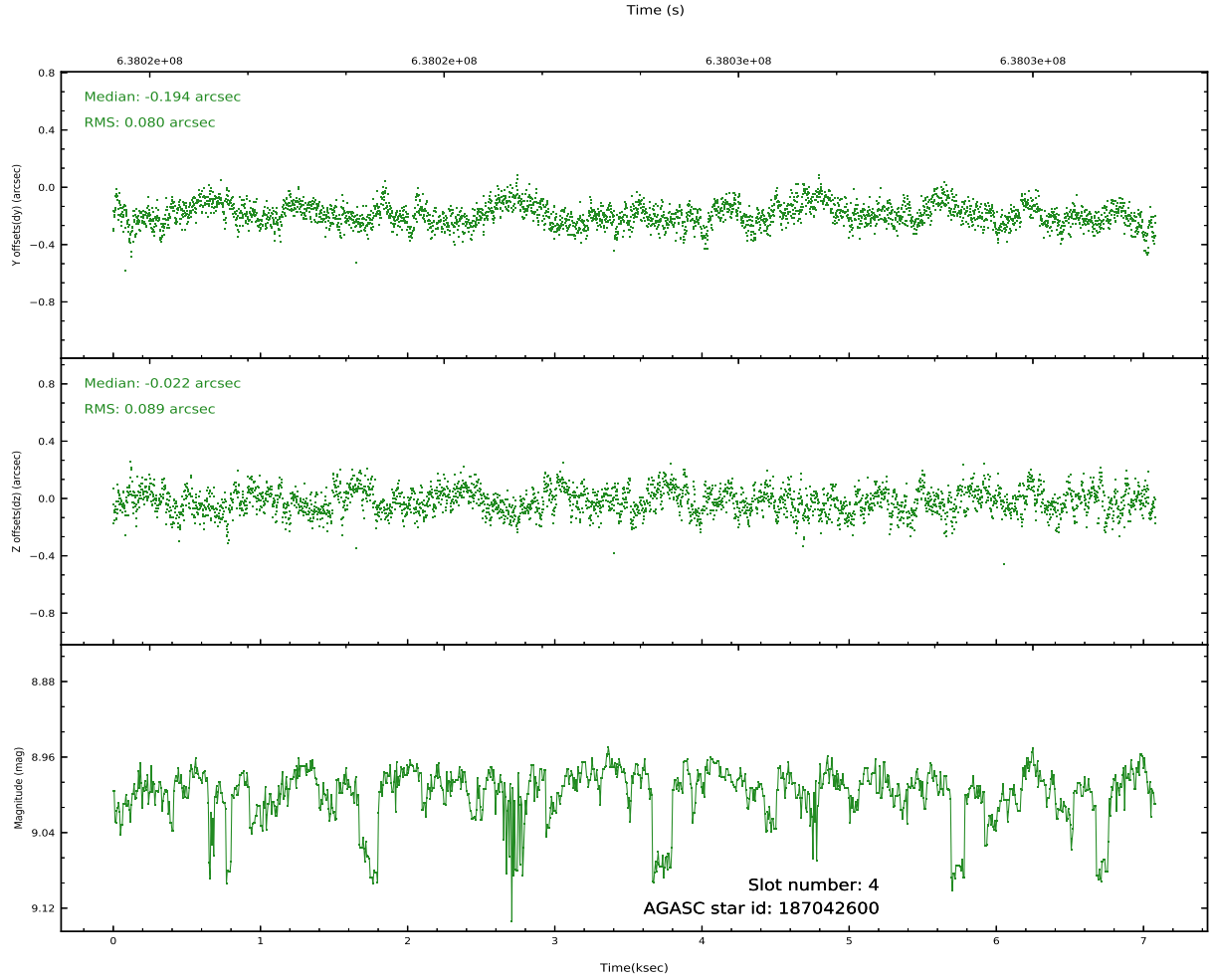
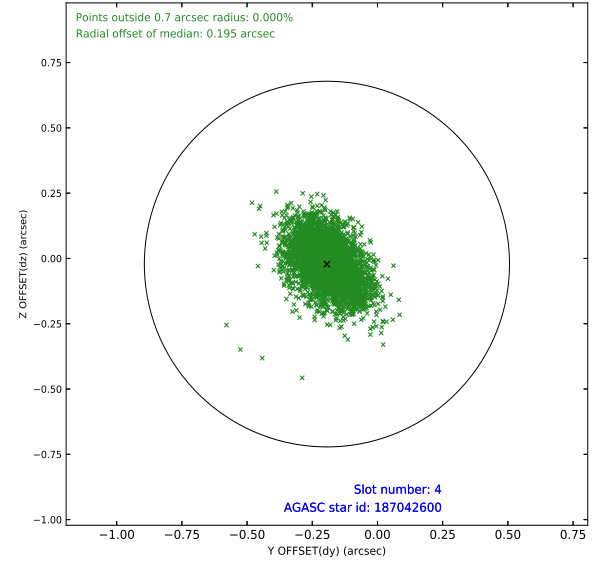
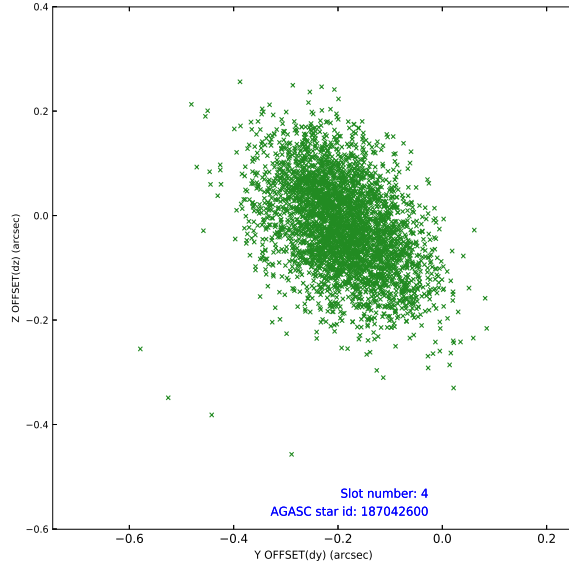
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.04	1728	1.000	0.095	-0.082	0.007	0.012	0.000000	0.000000	-772.91	-1742
1	FID		ACIS-S-4	7.16	1728	1.000	0.126	-0.023	0.008	0.014	0.000000	0.000000	2140.28	165
2	FID		ACIS-S-5	7.14	1728	1.000	-0.252	0.114	0.008	0.014	0.000000	0.000000	-1824.80	160
3	GUIDE	used	187042208	8.88	3452	1.000	0.087	0.039	0.190	0.276	158.716505	21.709720	-1345.64	-2260
4	GUIDE	used	187042600	8.99	3451	1.000	-0.194	-0.022	0.124	0.205	159.242652	20.947900	-511.69	891
5	GUIDE	used	187044016	8.67	3452	1.000	-0.138	0.164	0.126	0.201	159.171030	21.603259	-2084.37	-880
6	GUIDE	used	187045624	8.78	3447	1.000	0.192	-0.065	0.162	0.250	158.414656	20.748713	1896.29	-683
7	GUIDE	used	187046328	7.94	3453	1.000	0.056	-0.123	0.108	0.177	158.822252	21.378816	-701.03	-1197

2.4 Star Slots

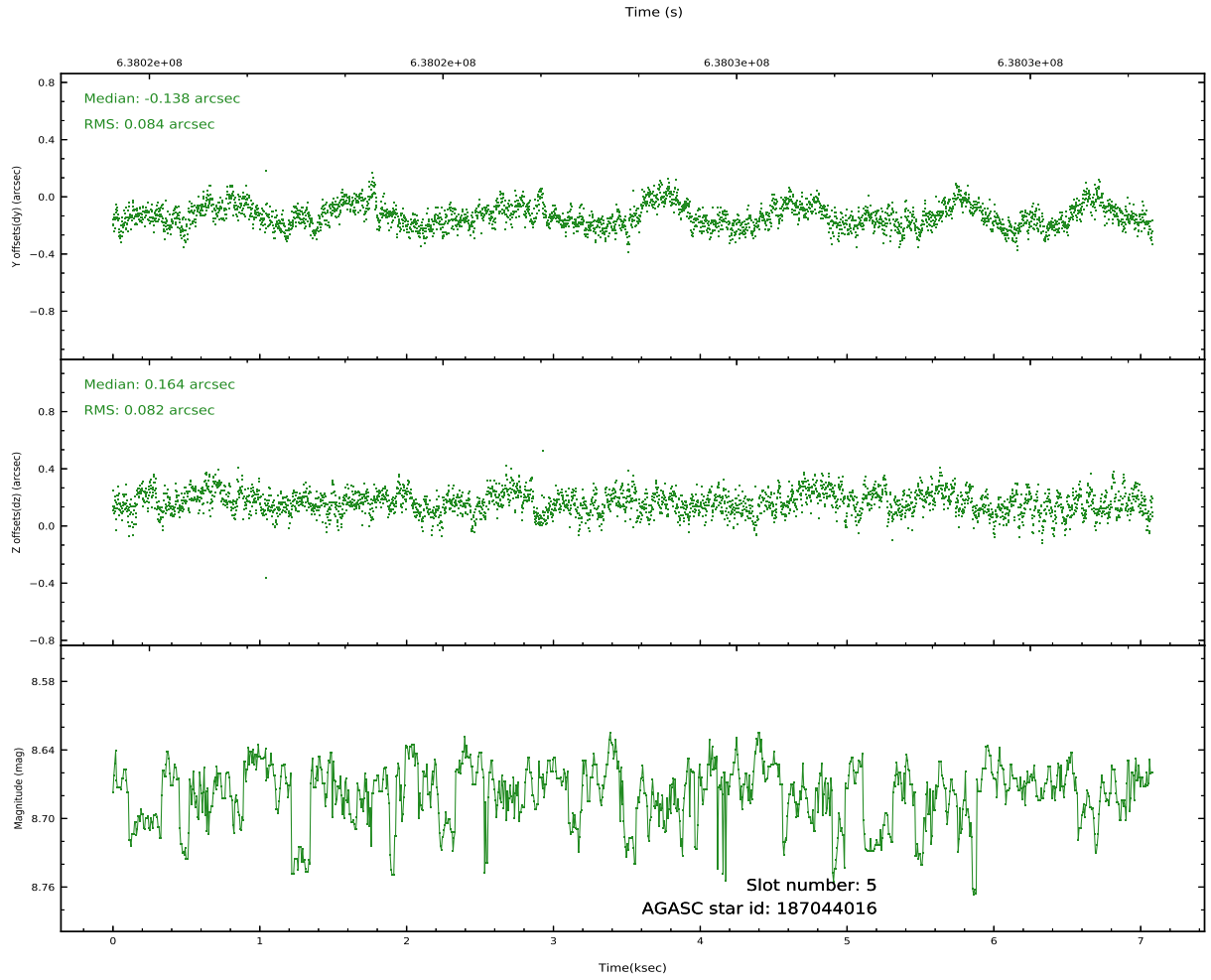
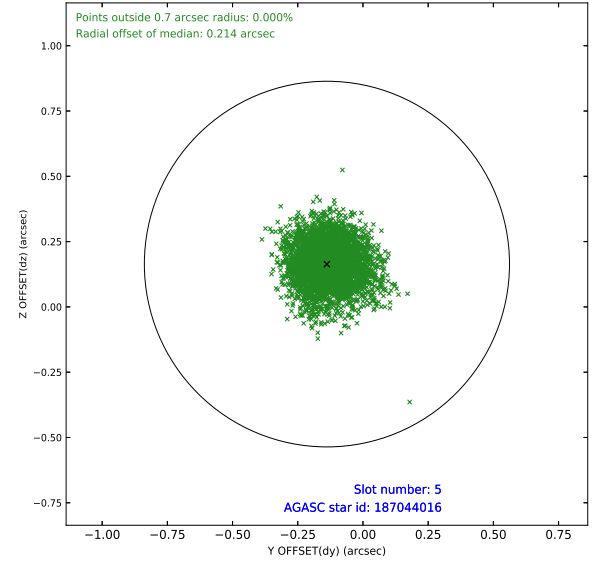
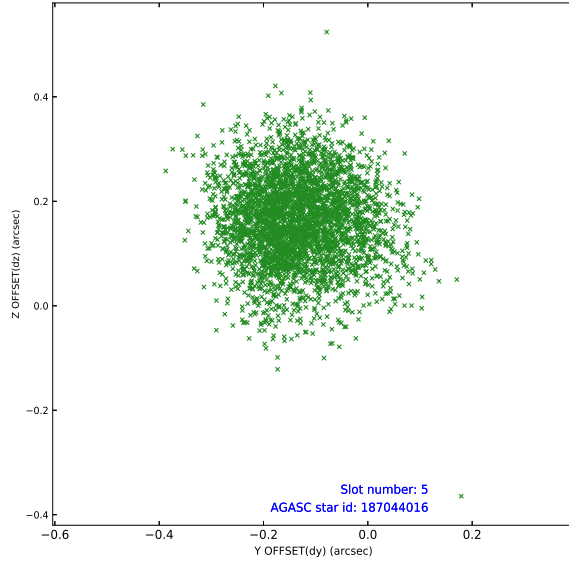
2.4.1 Slot 3



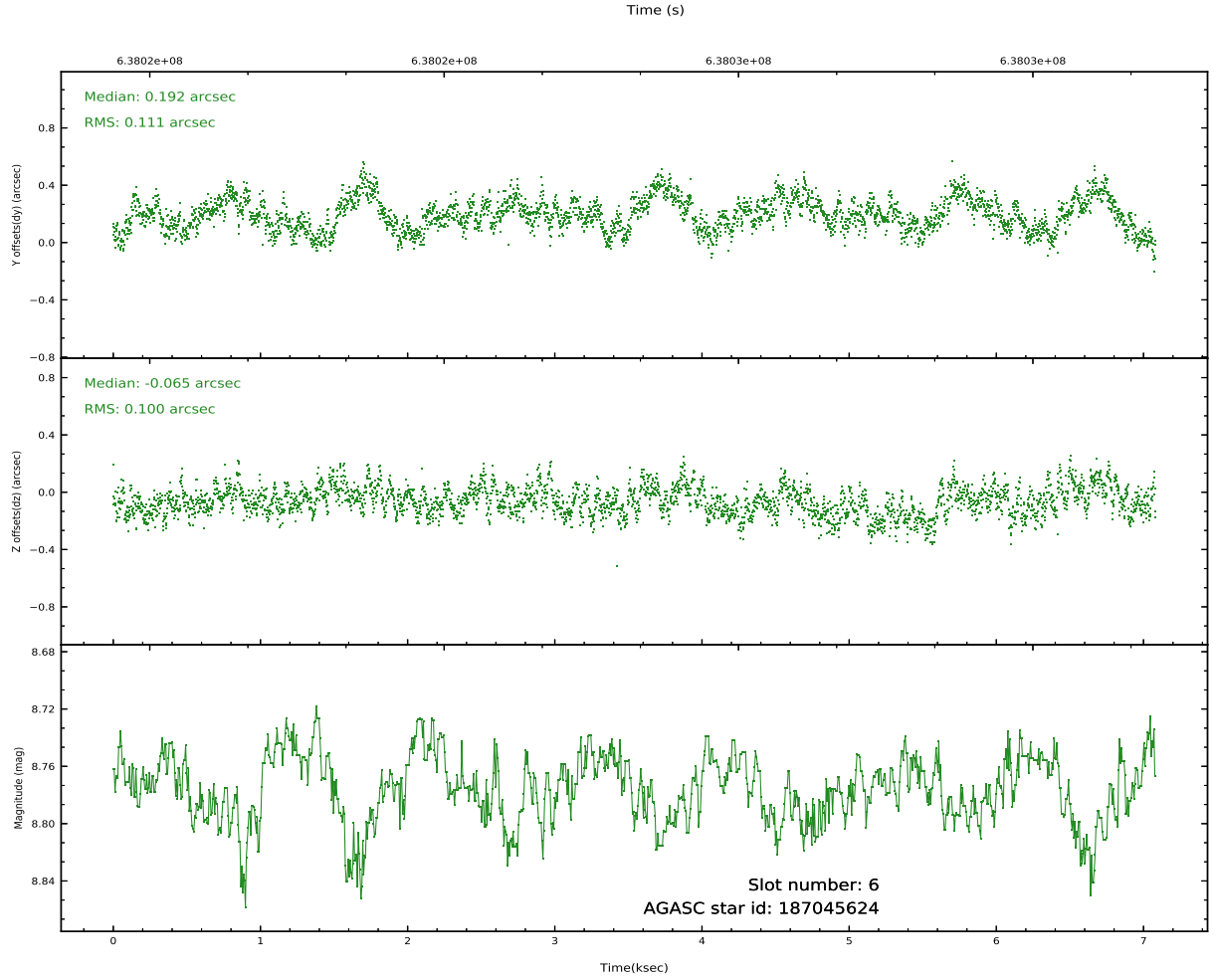
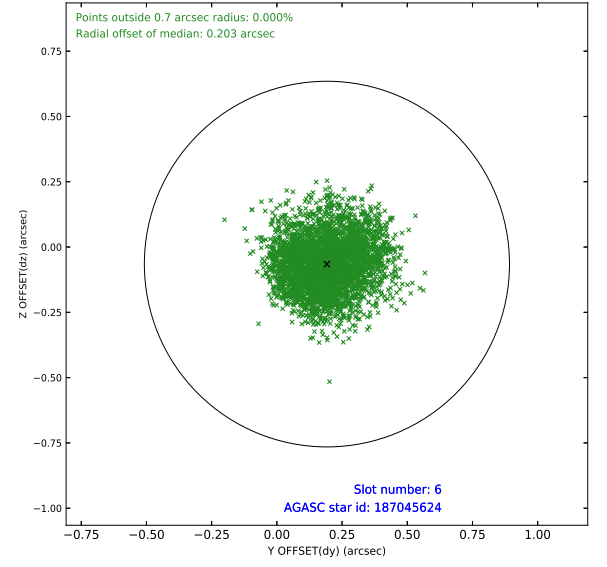
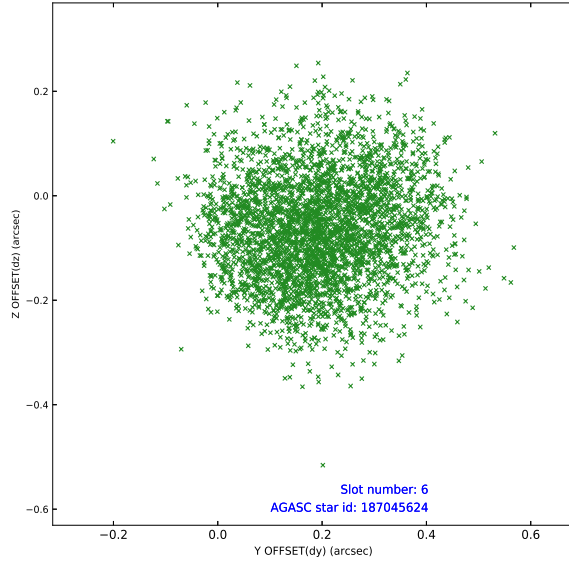
2.4.2 Slot 4



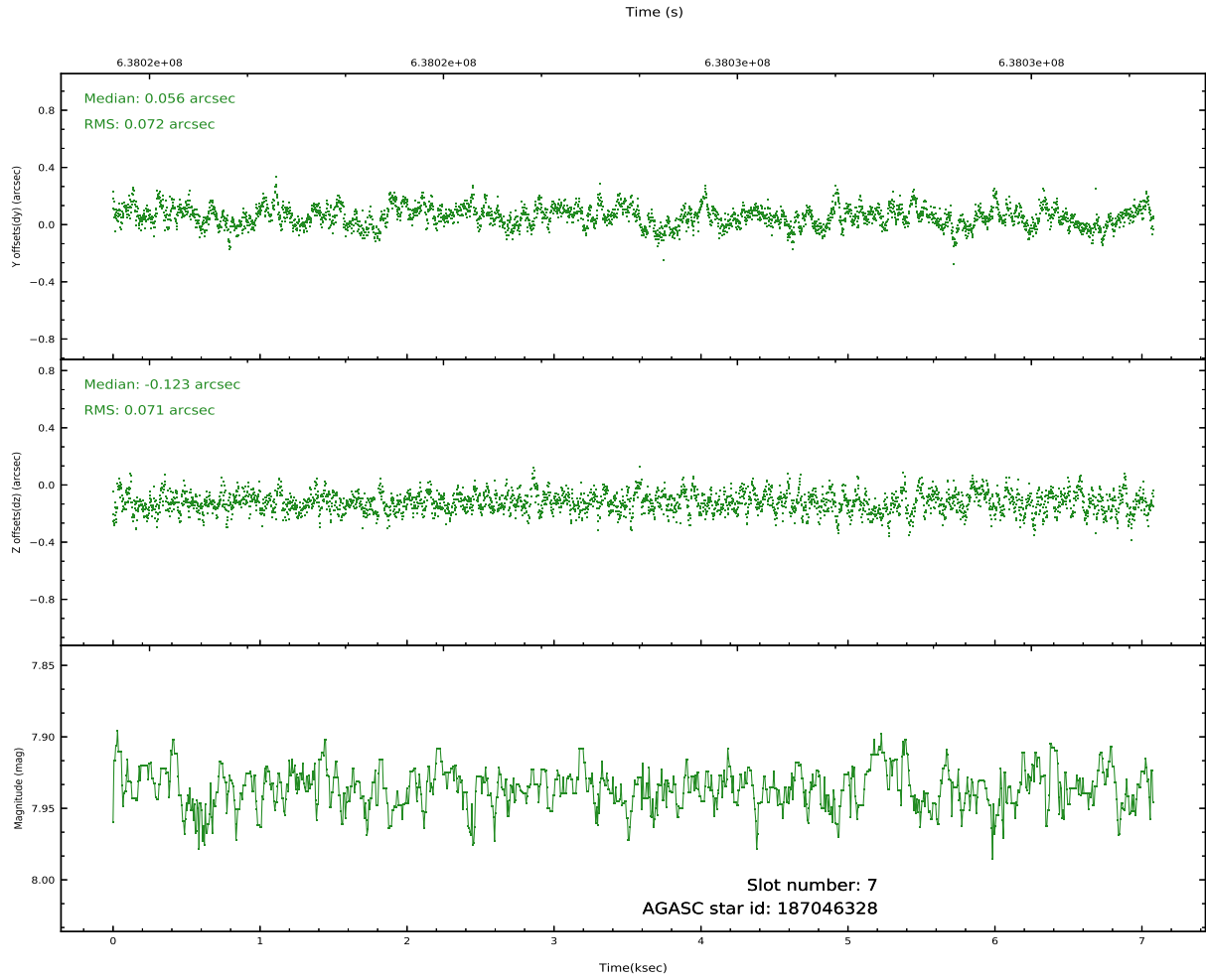
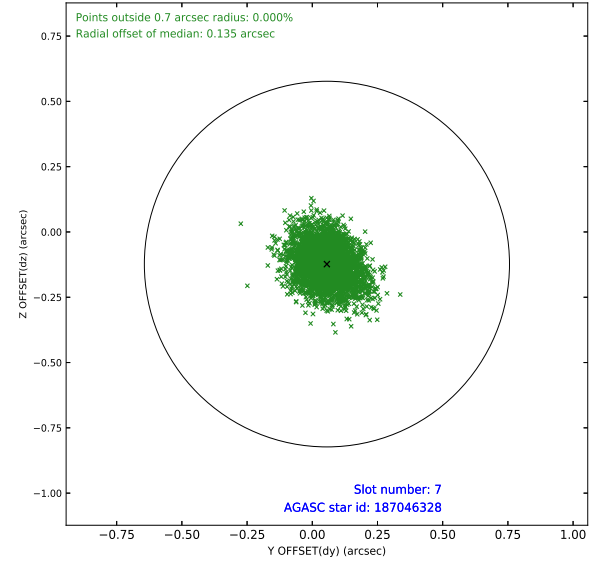
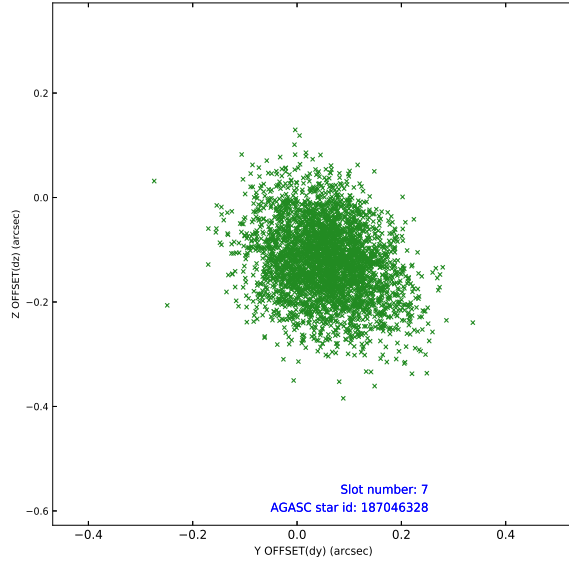
2.4.3 Slot 5



2.4.4 Slot 6

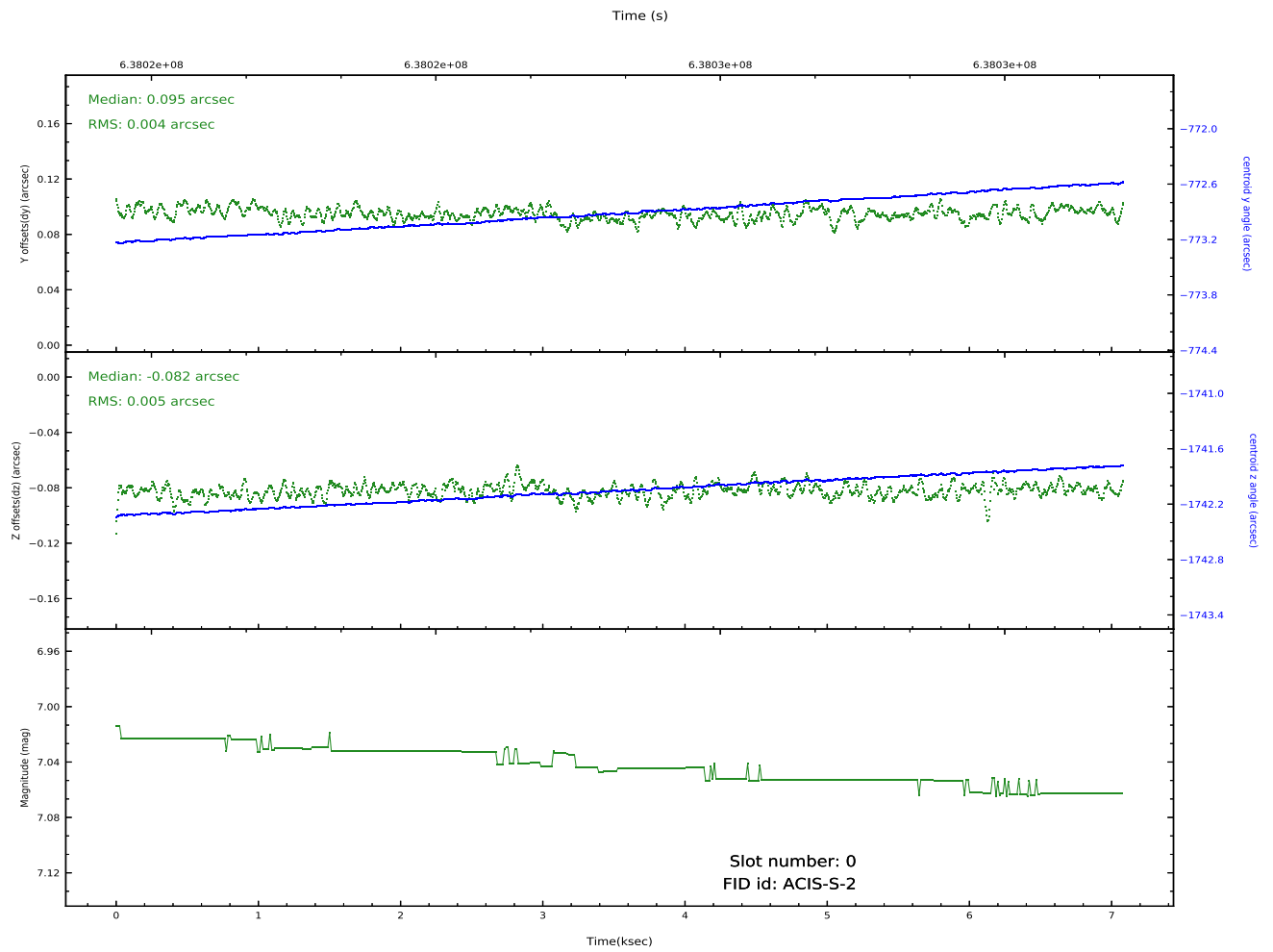
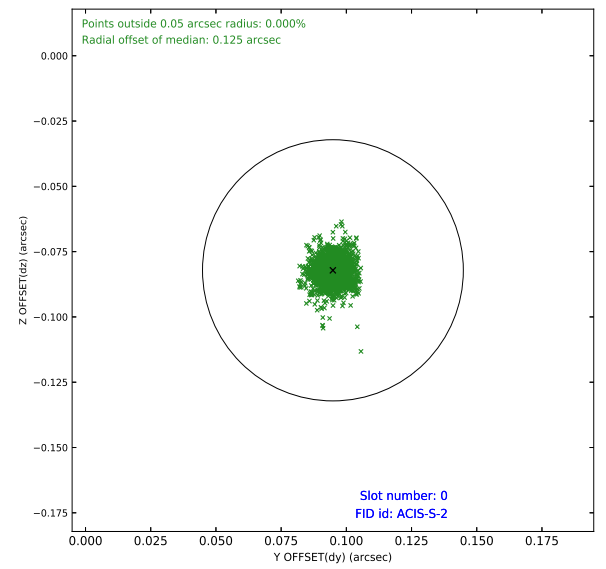
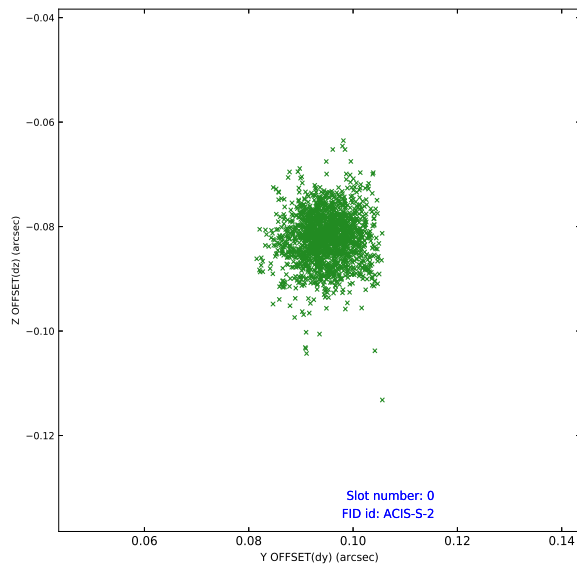


2.4.5 Slot 7

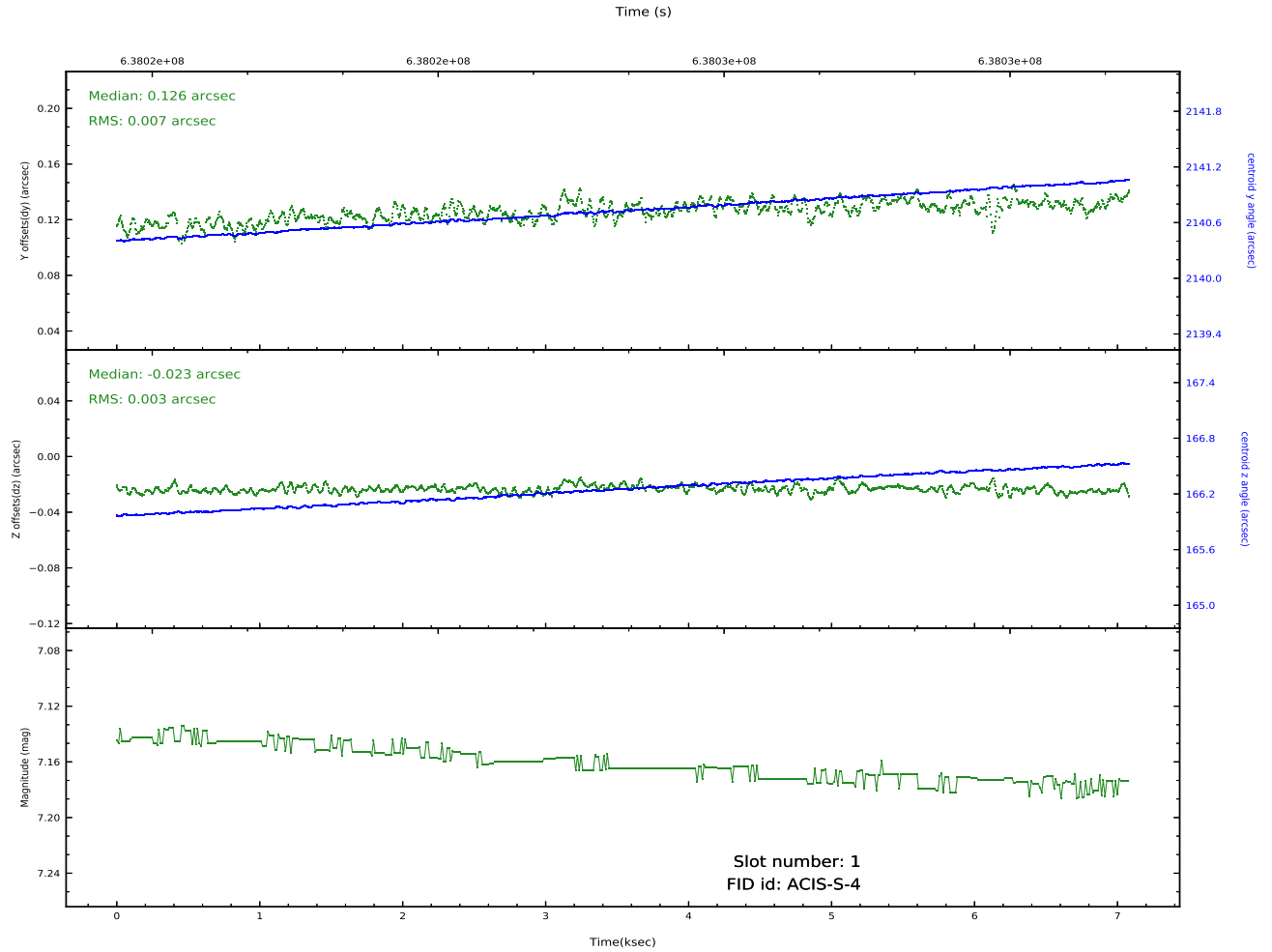
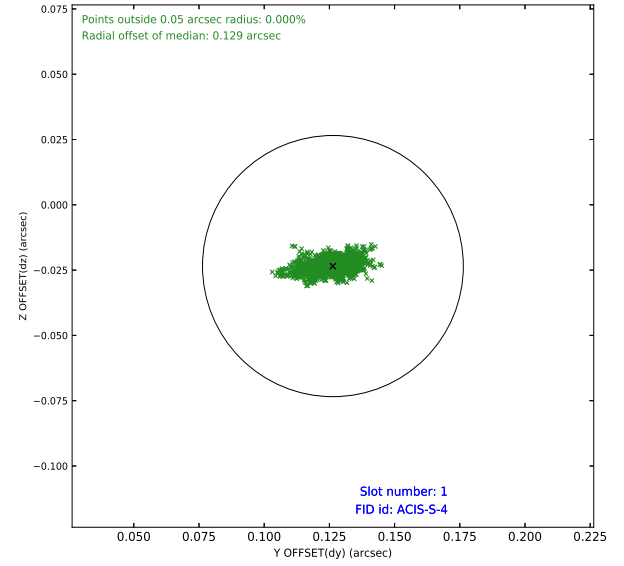
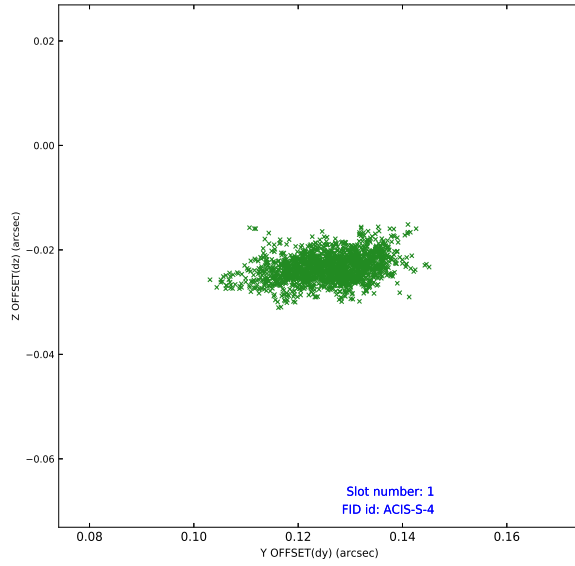


2.5 FID Slots

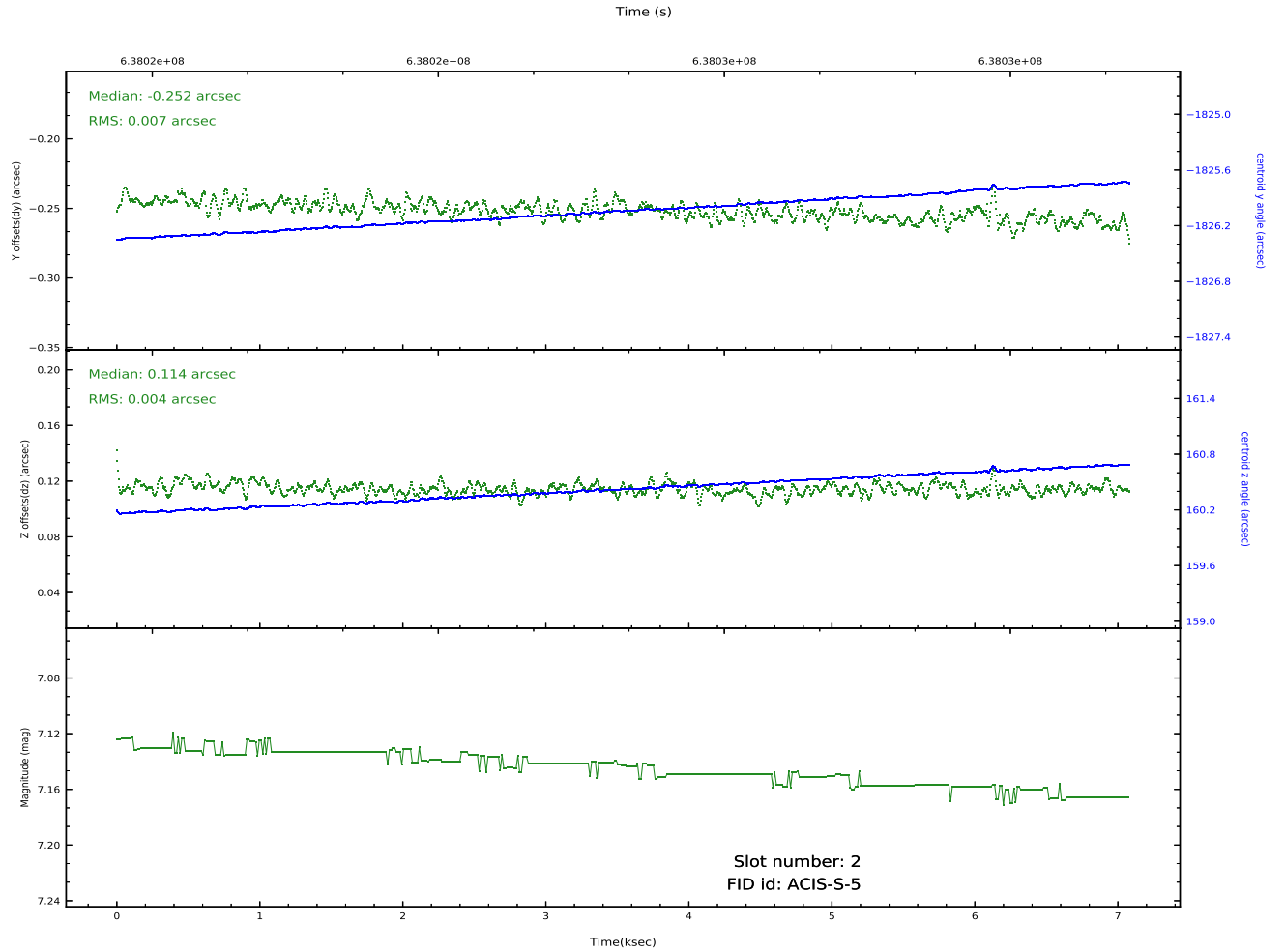
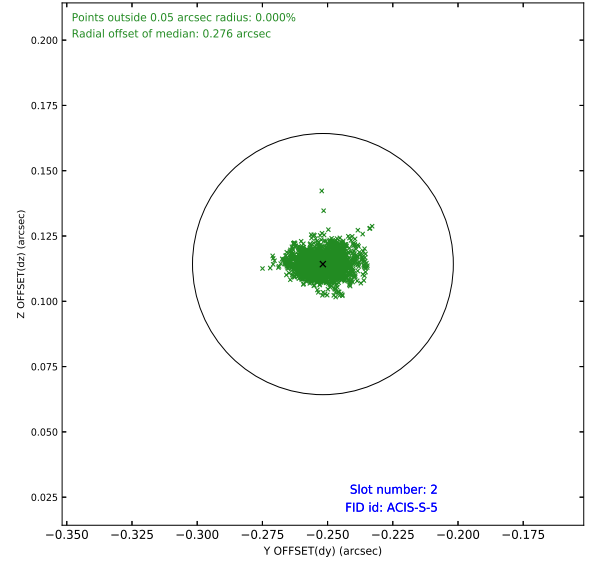
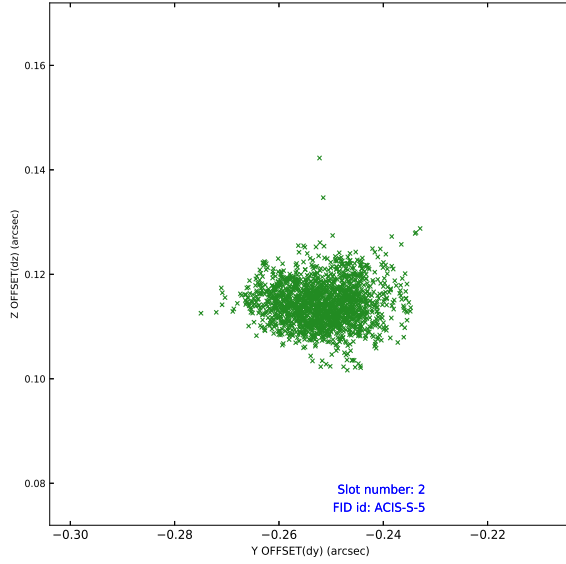
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.7921000523567

A.2 Comments