

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20494 - L2 Version 2
Chandra X-Ray Center

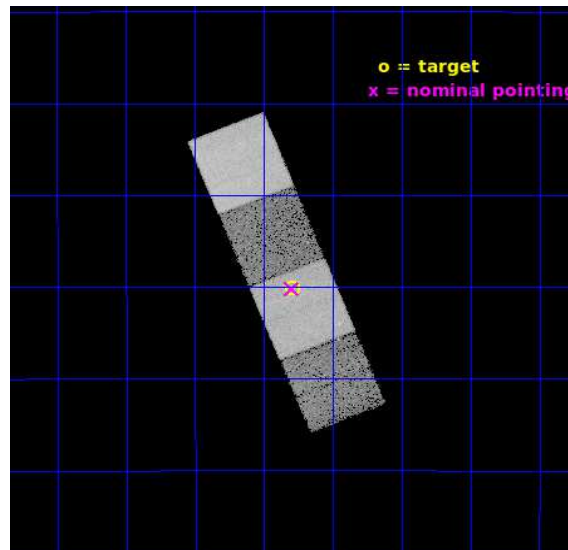
L2 Processing Date : Oct 25 2020

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1 Front

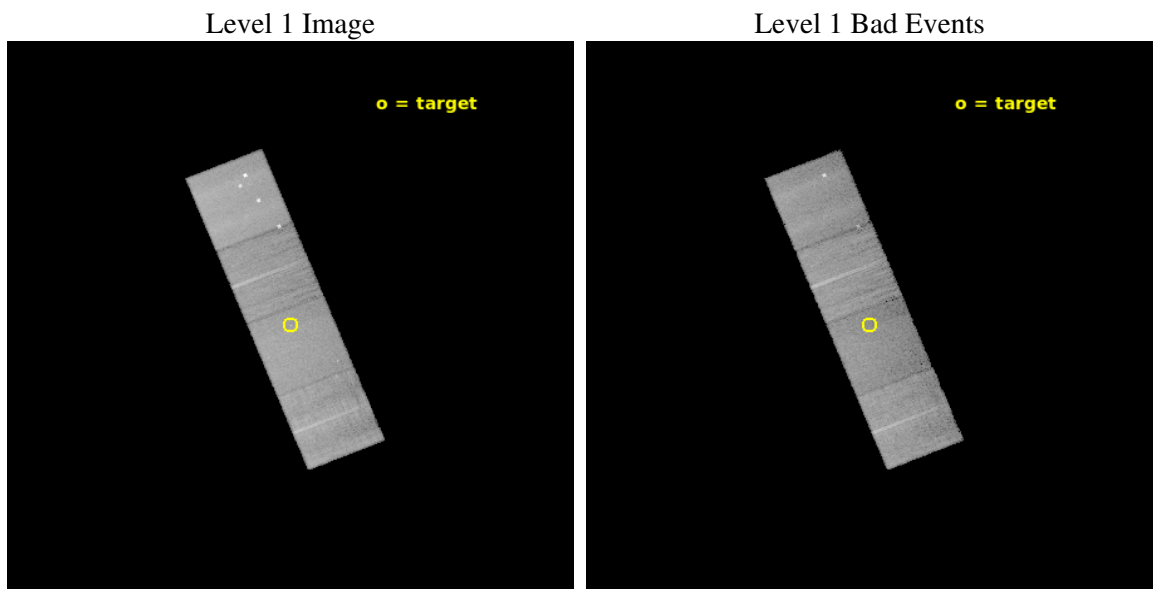
seq_num	703597	Sequence number
obs_id	20494	Observation id
title	Confirming X-ray bright gravitationally lensed quasars identified by Gaia and ROSAT	Proposal title
observer	Cameron Lemon	Principal investigator
object	J1418-1610	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	214.57375	Observer's specified target RA [deg]
dec_targ	-16.169	Observer's specified target Dec [deg]
ra_nom	214.57438106212	Nominal RA [deg]
dec_nom	-16.169935163766	Nominal Dec [deg]
roll_nom	67.933332985209	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15059.404890656	Sum of GTIs [s]
livetime	14862.642679187	Livetime [s]
ontime5	15059.363850713	Sum of GTIs [s]
ontime6	15059.32281065	Sum of GTIs [s]
ontime7	15059.404890656	Sum of GTIs [s]
ontime8	15056.140680313	Sum of GTIs [s]
l2events	167511	Number of level 2 events



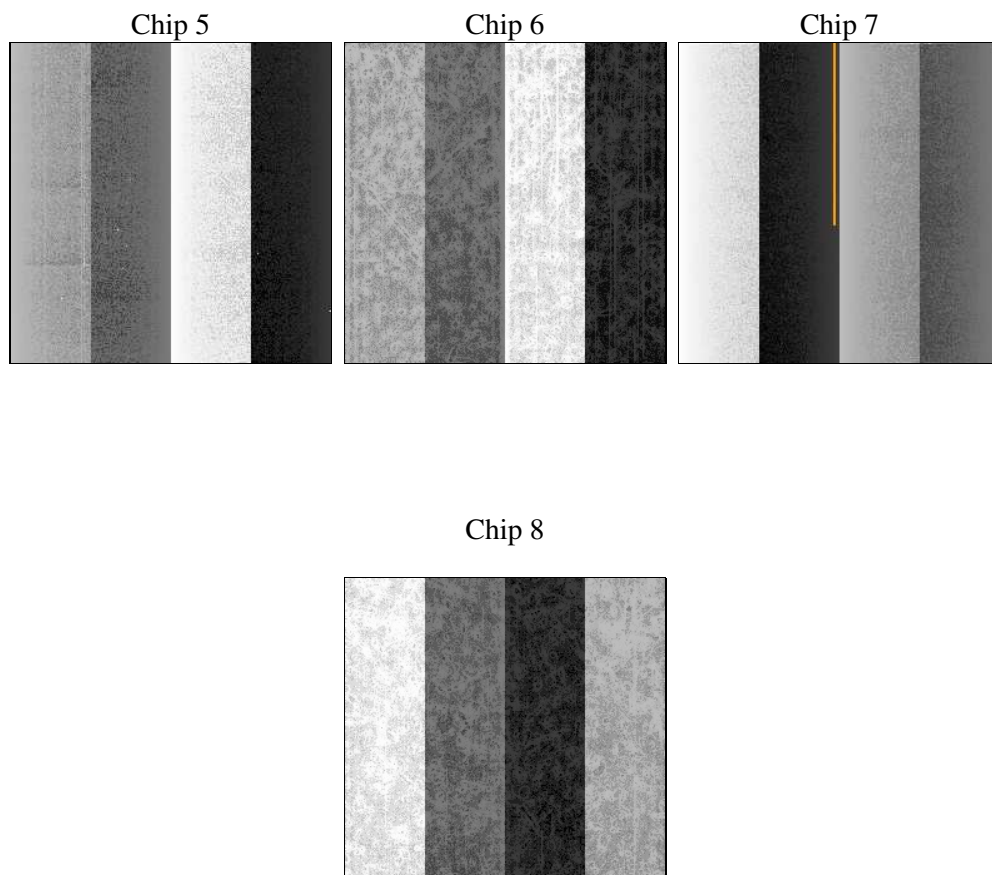
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	15059.404890656	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	15059.363850713	Sum of GTIs [s]
date	2020-10-25T04:09:59	Date and time of file creation	ontime6	15059.32281065	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	15059.404890656	Sum of GTIs [s]
			ontime8	15056.140680313	Sum of GTIs [s]
			l1events	614822	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	195443	123413	146018	149948
rejected events	99847	110493	82767	113998
rejected %	51%	89%	56%	76%

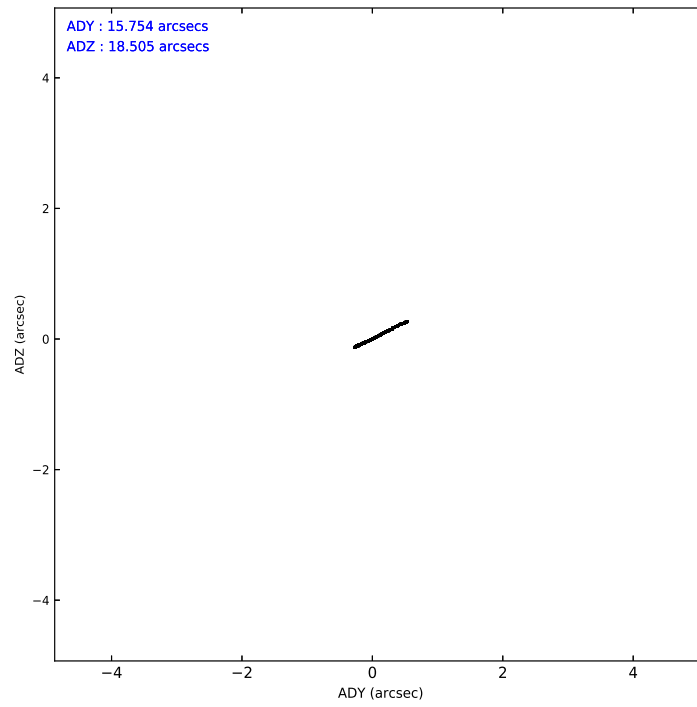
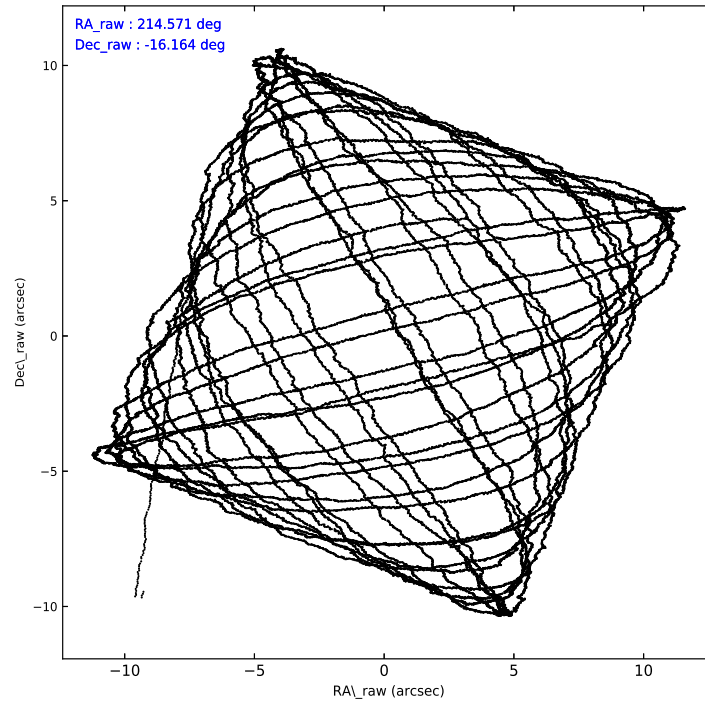
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	11832	3558	5392	9796
	6%	2%	3%	6%
grade 1 events	689	50	198	127
	0%	0%	0%	0%
grade 2 events	27771	3746	12832	9340
	14%	3%	8%	6%
grade 3 events	3234	955	5065	3438
	1%	0%	3%	2%
grade 4 events	2720	1016	4966	3225
	1%	0%	3%	2%
grade 5 events	11739	4527	14104	7321
	6%	3%	9%	4%
grade 6 events	50073	3652	35027	10162
	25%	2%	23%	6%
grade 7 events	87385	105909	68434	106539
	44%	85%	46%	71%

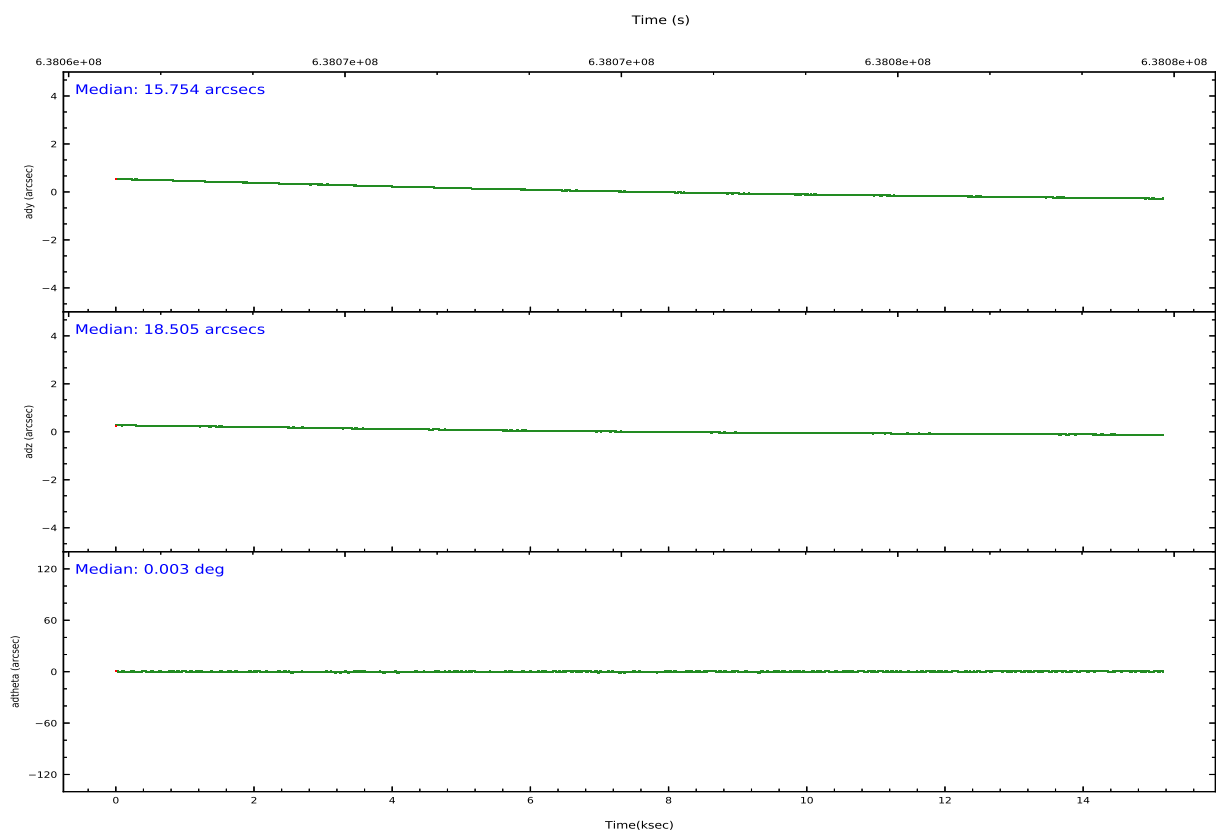
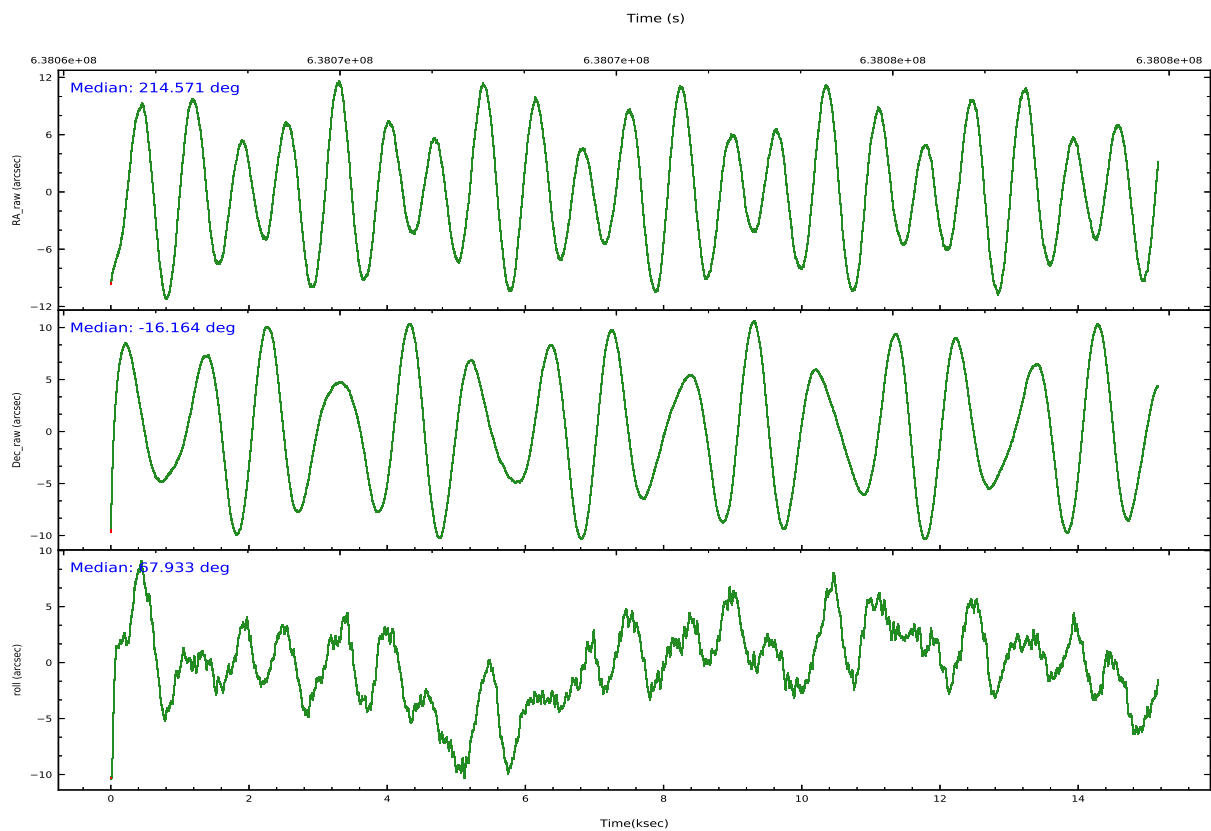
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-5678	ACIS-5678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	214.575351	214.57438106212
[deg] Pointing Dec	-16.190860	-16.169935163766
[deg] Pointing Roll	67.782528	67.93333298520901
[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)	638064840.184000	638063517.8341399
Observation start date	2018-03-22T00:12:51	2018-03-21T23:51:57
[s] Observation end time (MET)	638079840.184000	638080626.62265
Observation end date	2018-03-22T04:22:51	2018-03-22T04:37:06
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	O2	N
CCD S1 on	O3	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	O1	N
Number of optional ACIS chips dropped	2	2
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



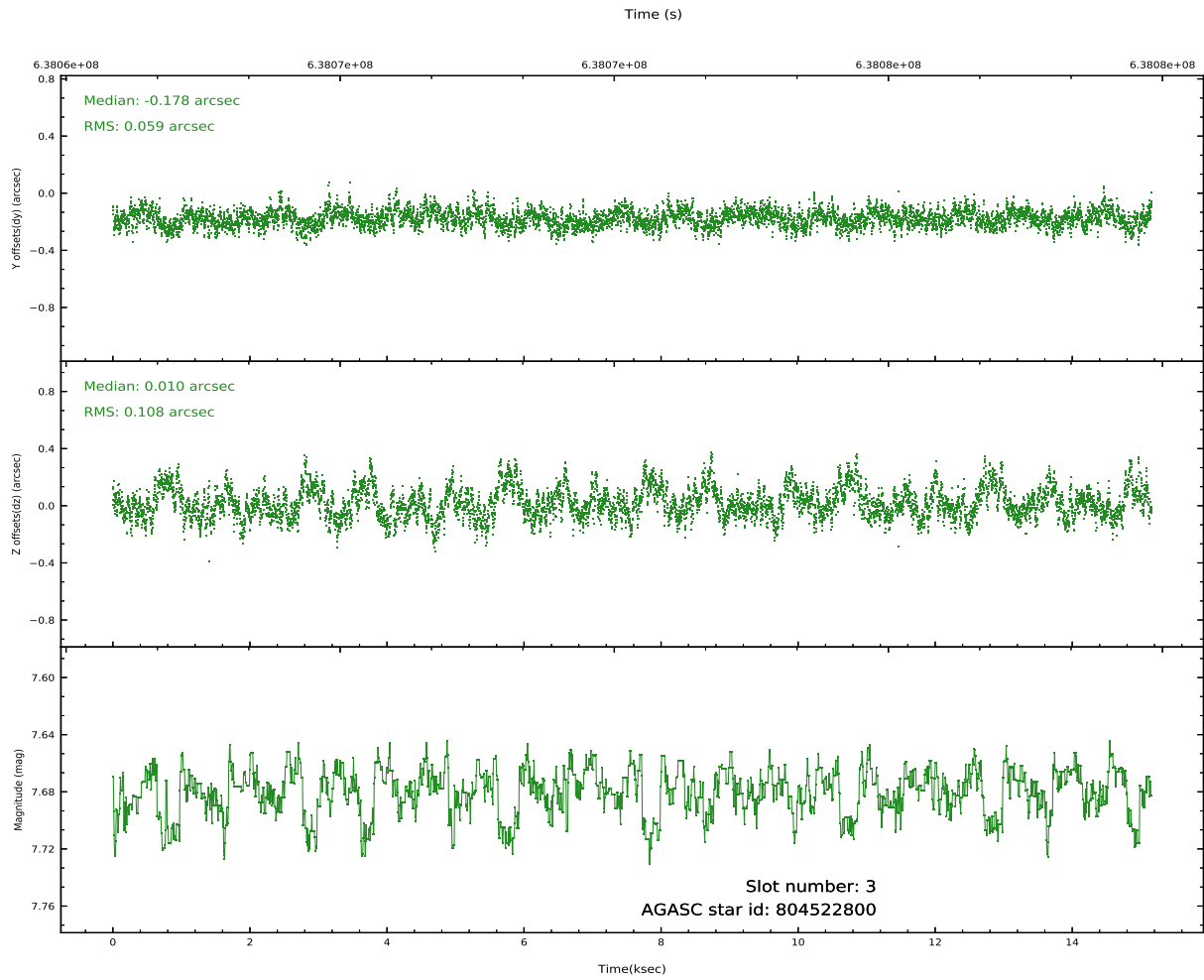
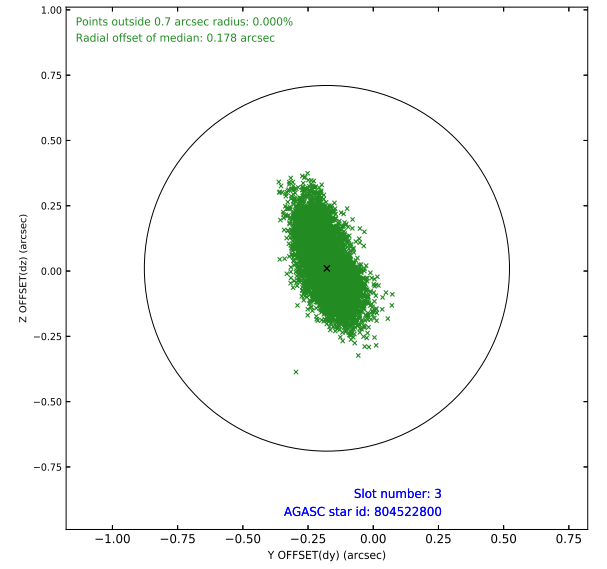
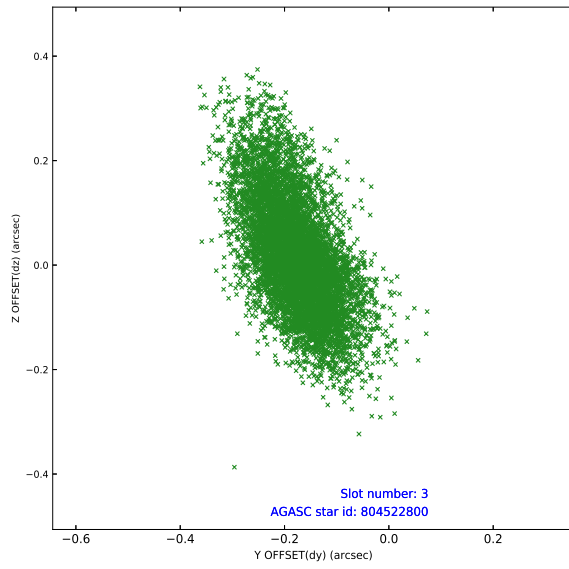


Slot Statistics

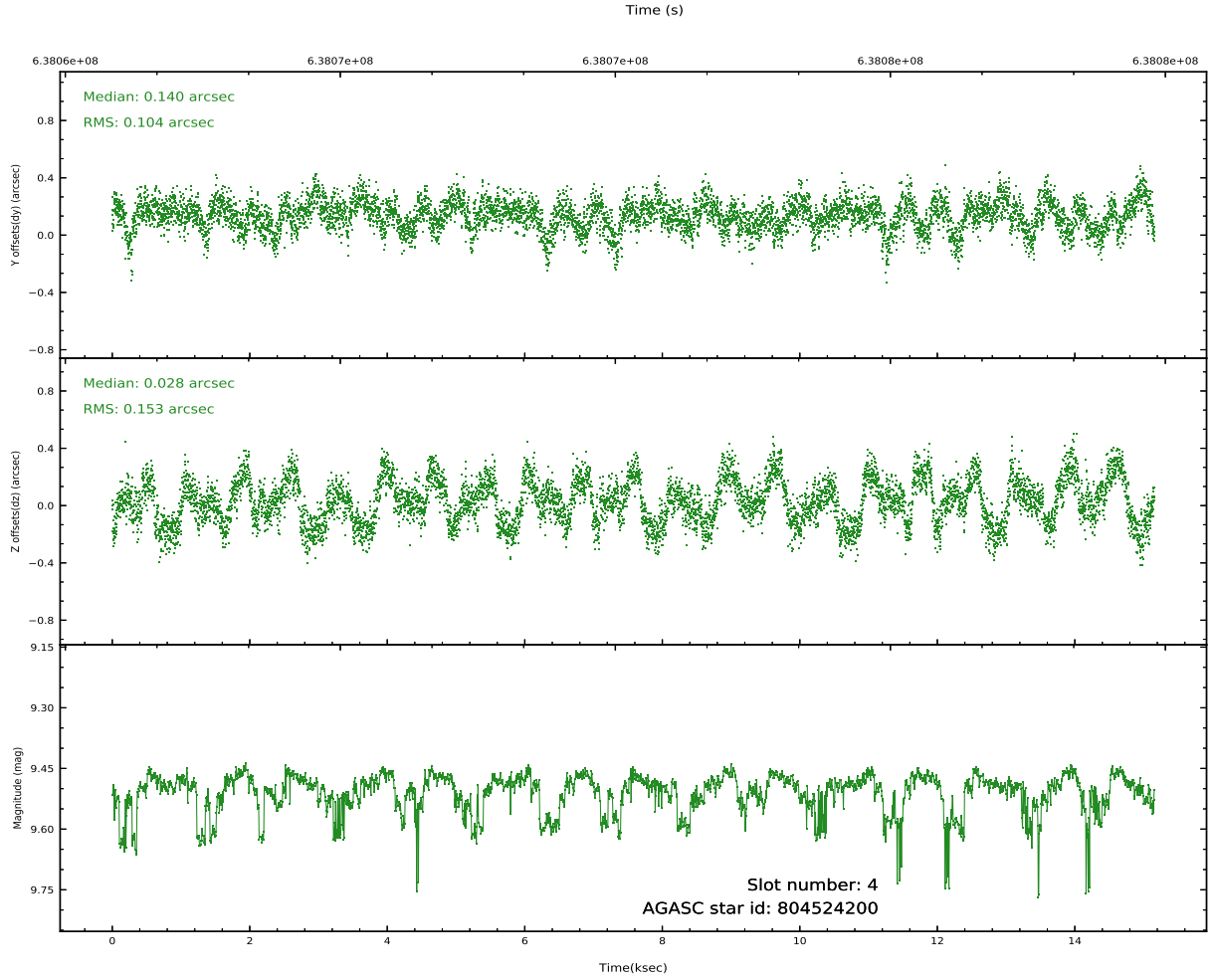
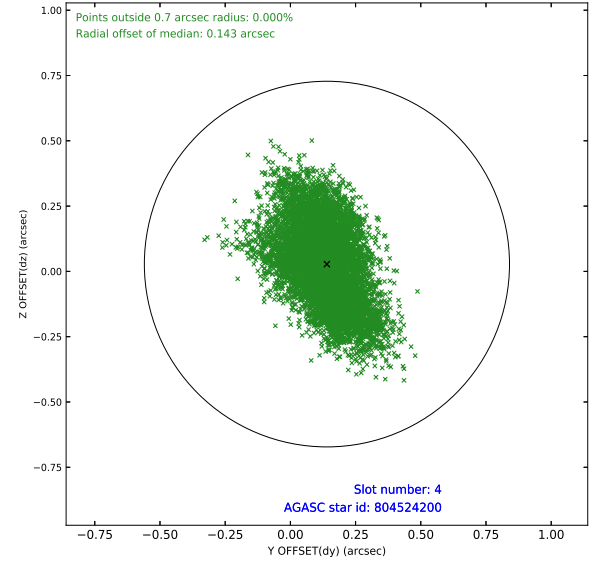
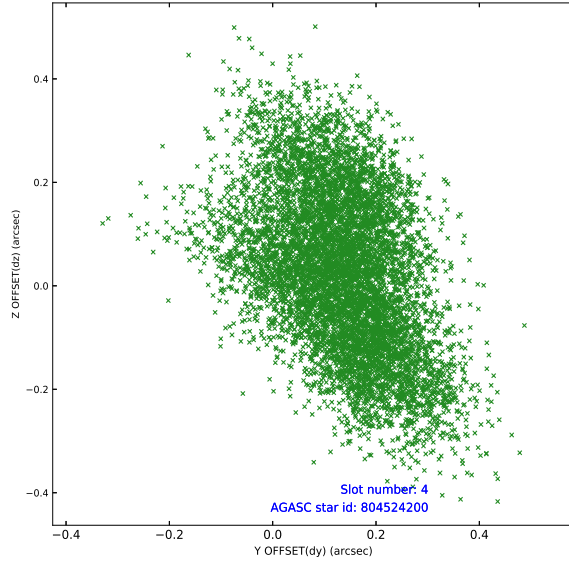
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.19	3698	1.000	0.090	-0.136	0.012	0.024	0.000000	0.000000	-768.91	-1740
1	FID		ACIS-S-4	7.30	3697	1.000	0.164	-0.006	0.012	0.028	0.000000	0.000000	2144.52	167
2	FID		ACIS-S-5	7.28	3697	1.000	-0.285	0.152	0.008	0.013	0.000000	0.000000	-1821.53	162
3	GUIDE	used	804522800	7.68	7393	1.000	-0.178	0.010	0.126	0.228	213.959296	-16.081363	-444.01	2121
4	GUIDE	used	804524200	9.50	7376	1.000	0.140	0.028	0.198	0.320	213.923417	-16.561581	-2090.52	1575
5	GUIDE	used	804651936	9.26	7390	1.000	-0.149	0.050	0.139	0.226	214.454817	-16.025933	390.66	610
6	GUIDE	used	804656480	8.85	7389	1.000	0.148	0.294	0.130	0.206	214.323655	-16.749571	-2190.32	43
7	GUIDE	used	804653008	9.14	7388	1.000	0.041	-0.386	0.174	0.270	214.804962	-16.573506	-976.50	-1254

2.4 Star Slots

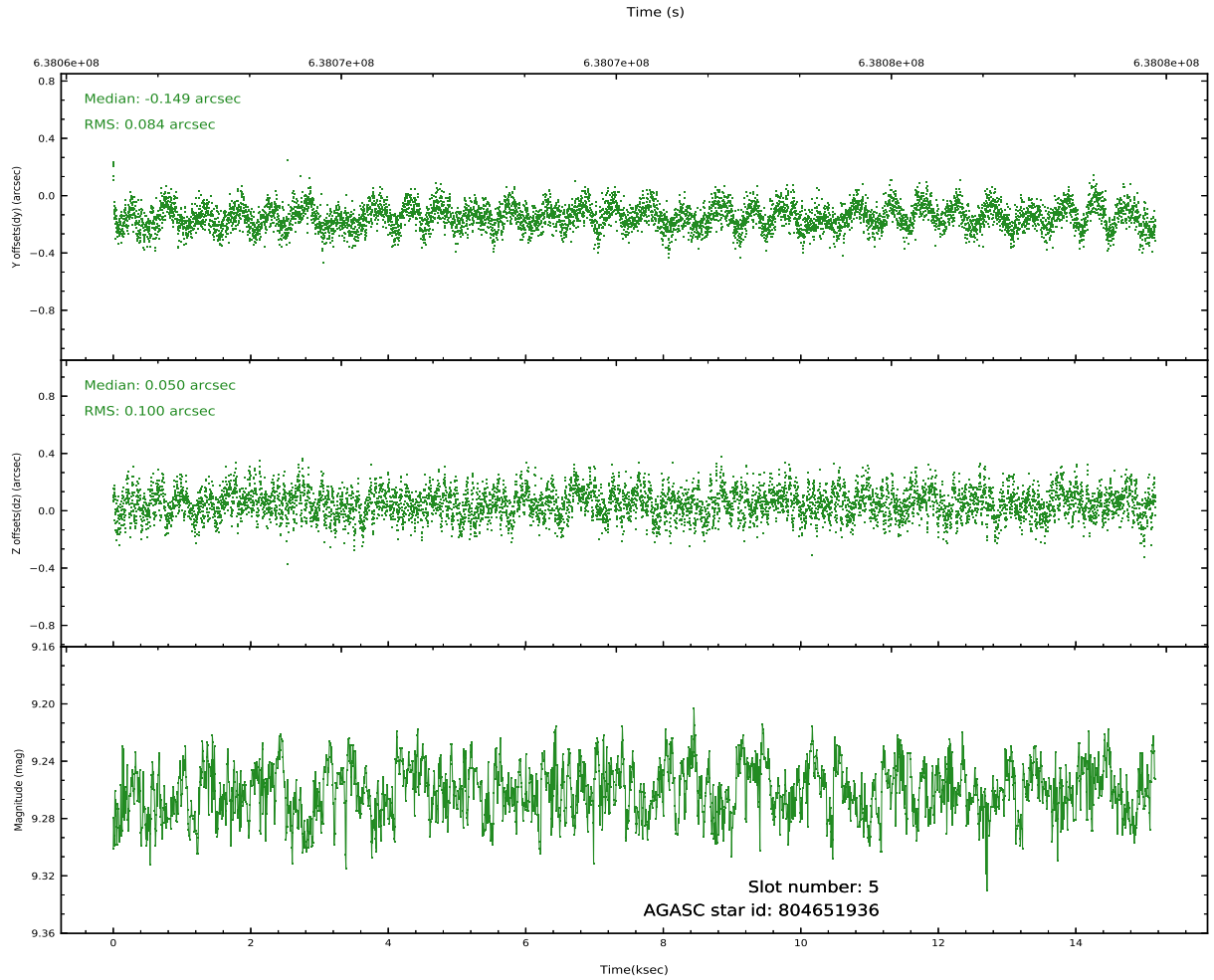
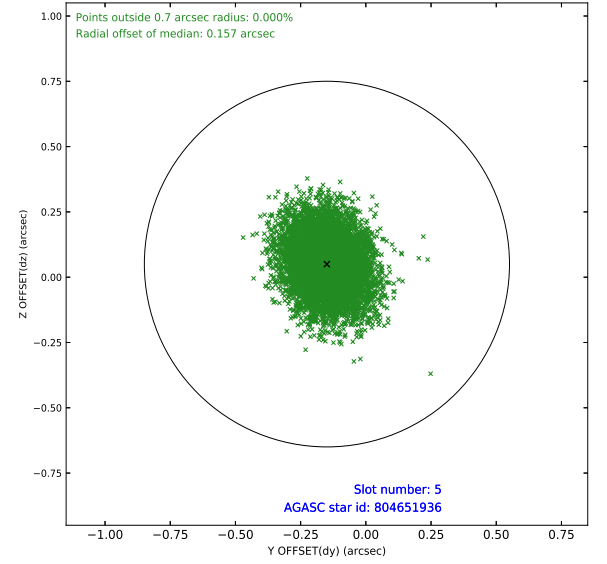
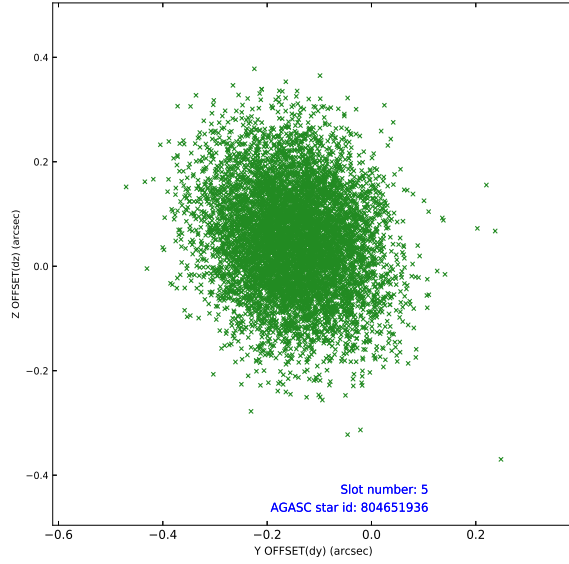
2.4.1 Slot 3



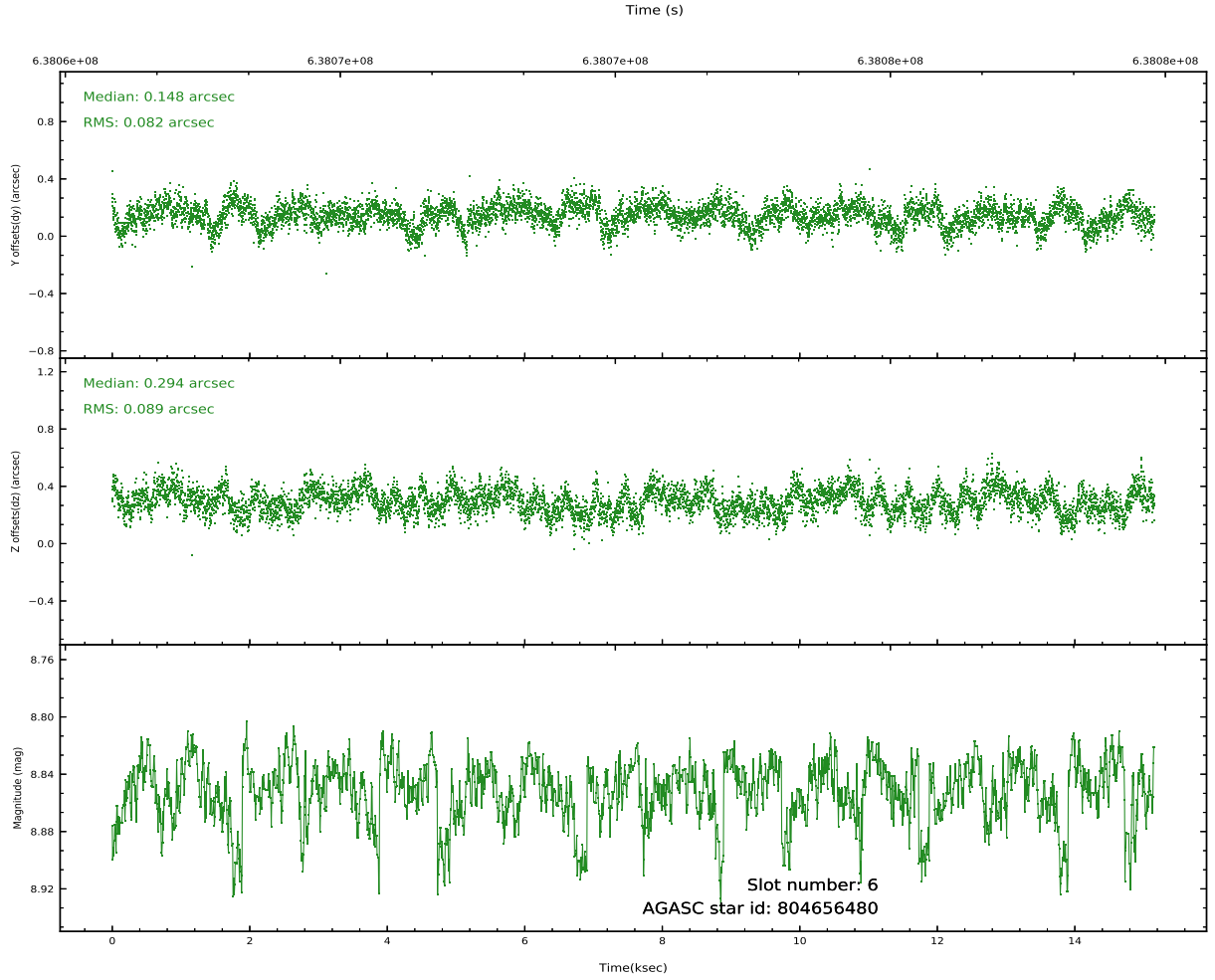
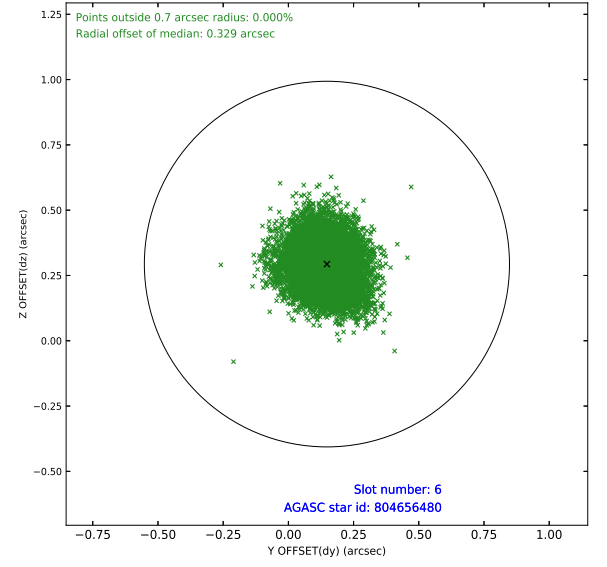
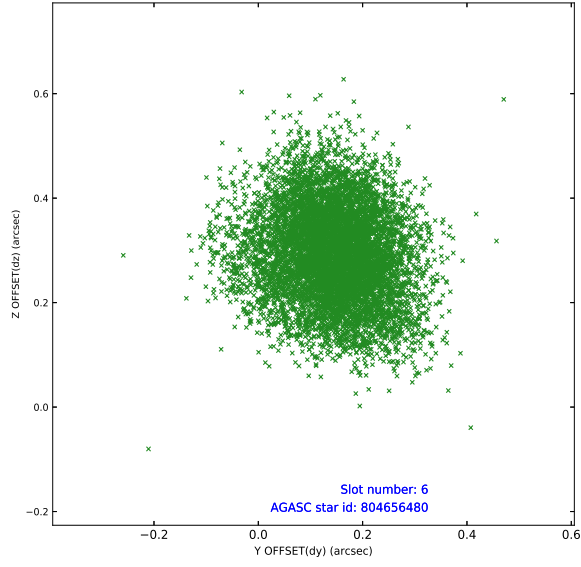
2.4.2 Slot 4



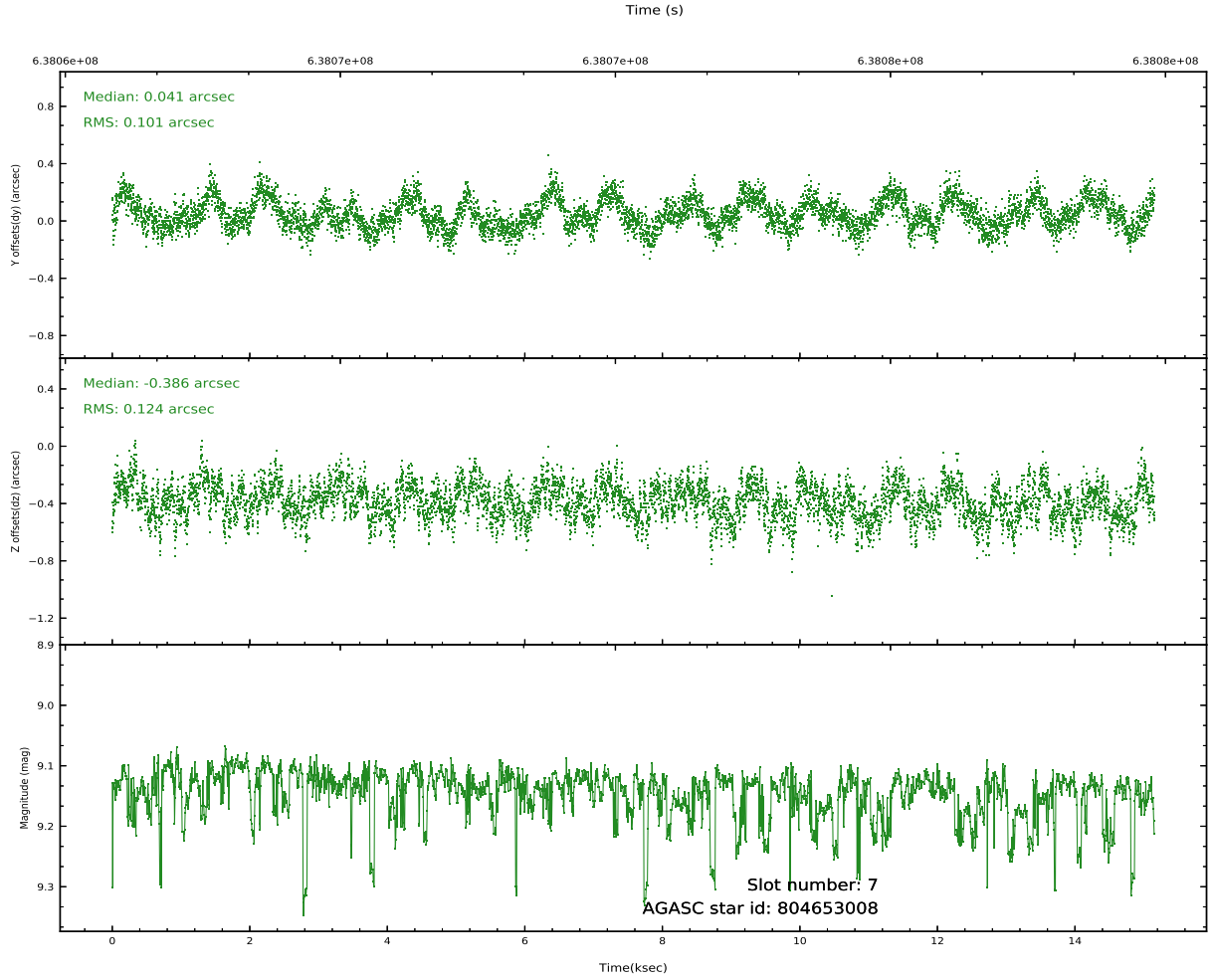
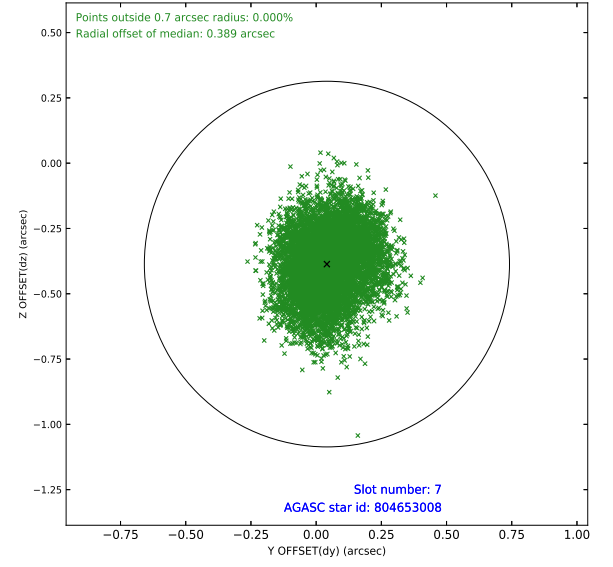
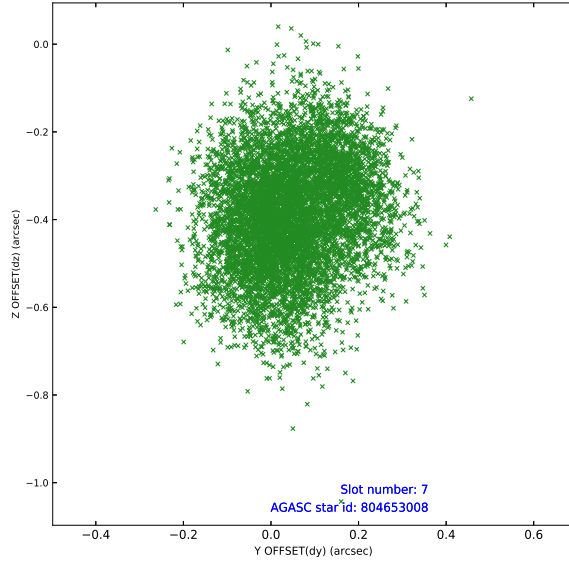
2.4.3 Slot 5



2.4.4 Slot 6

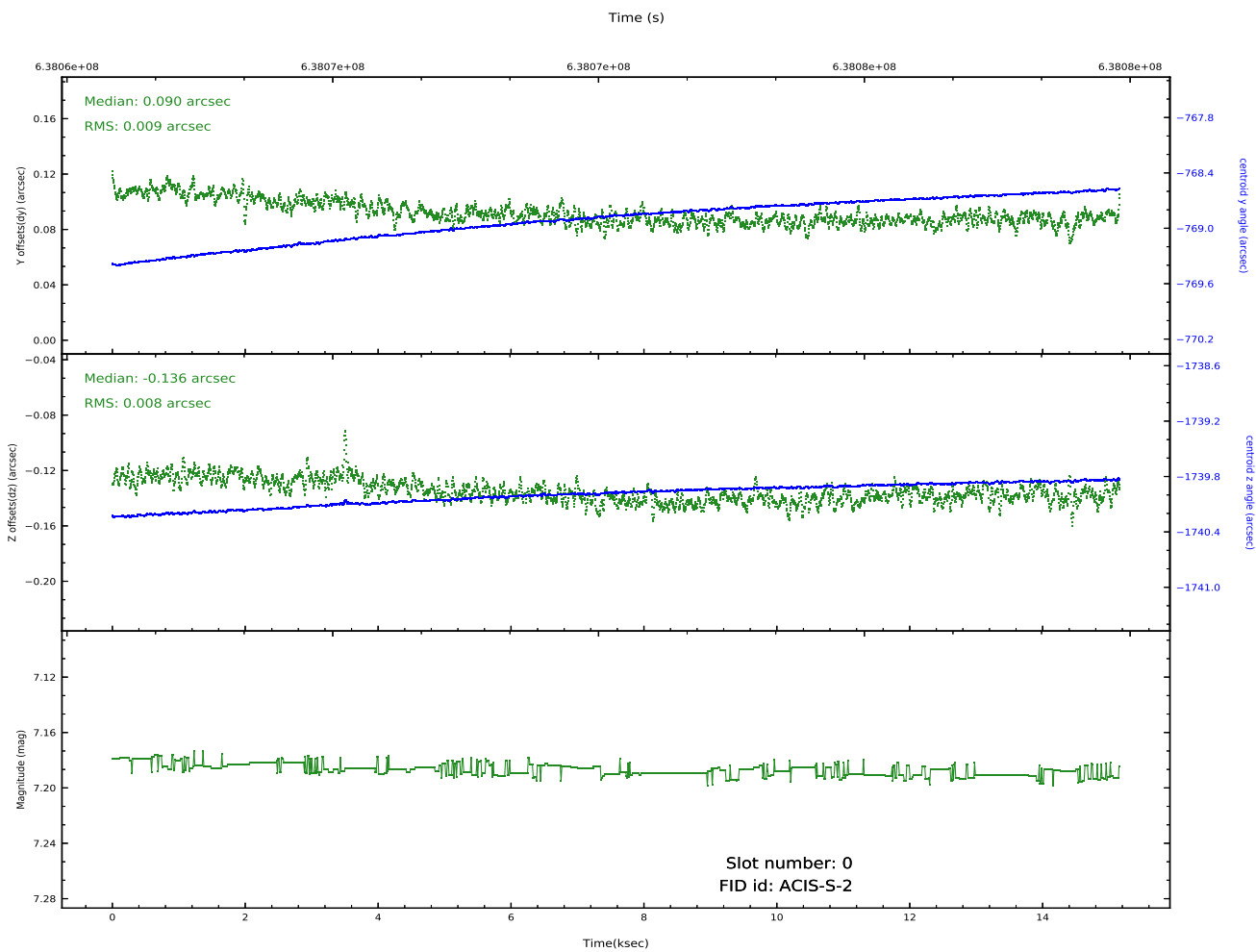
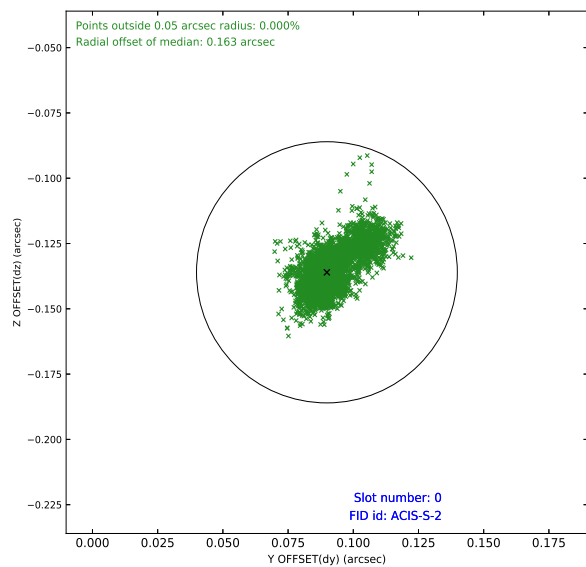
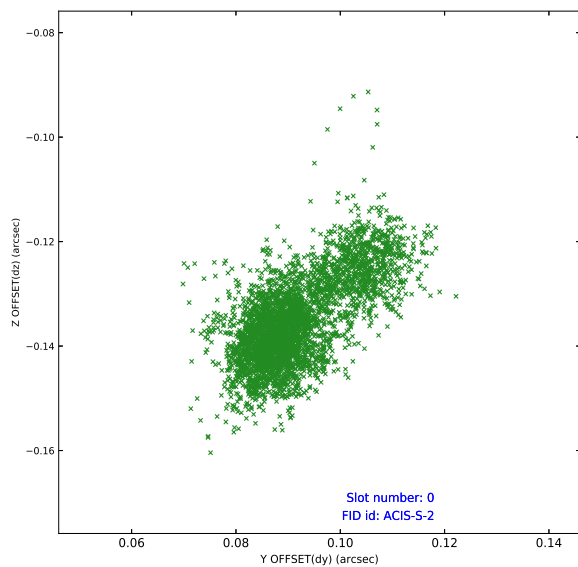


2.4.5 Slot 7

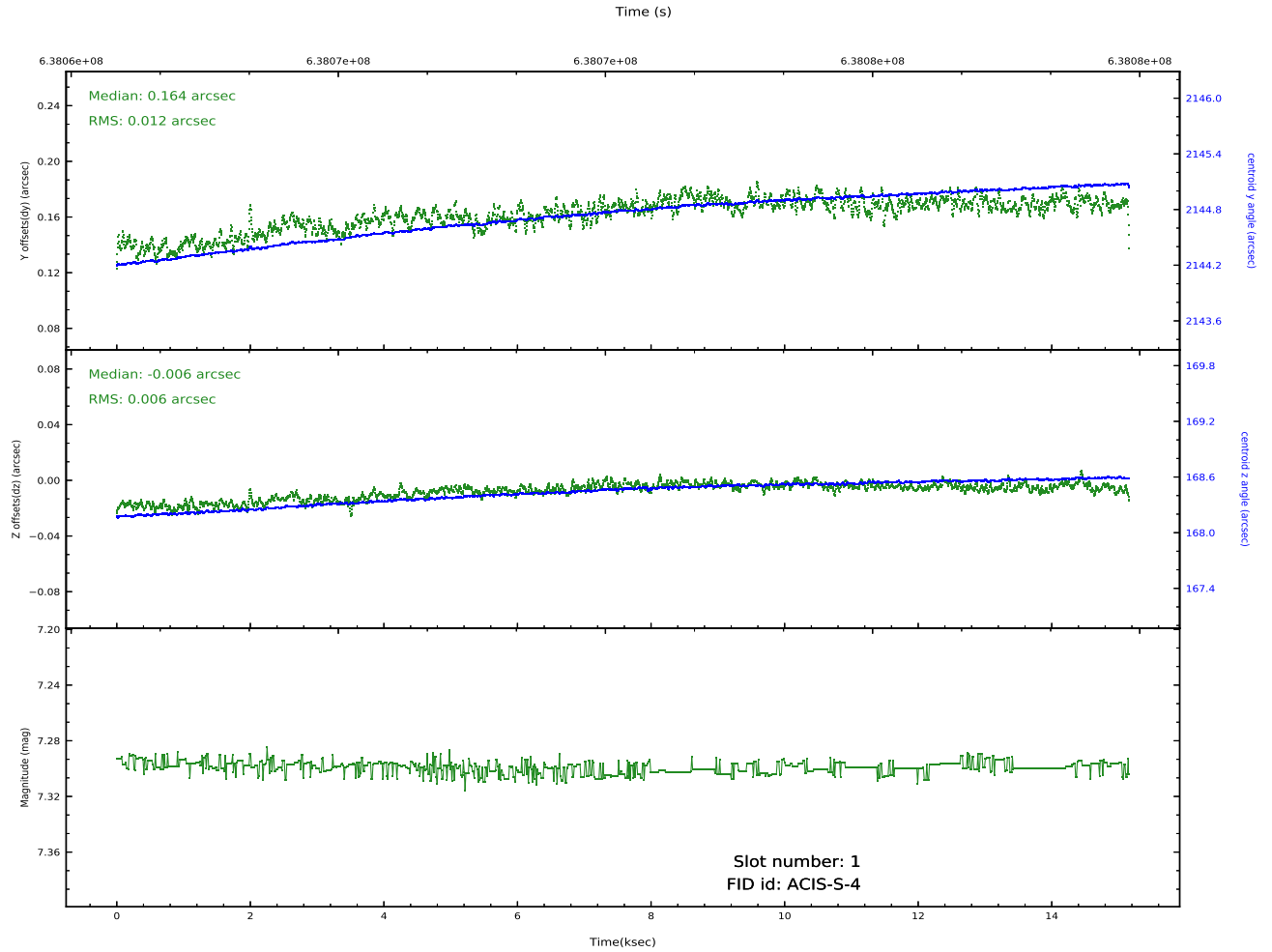
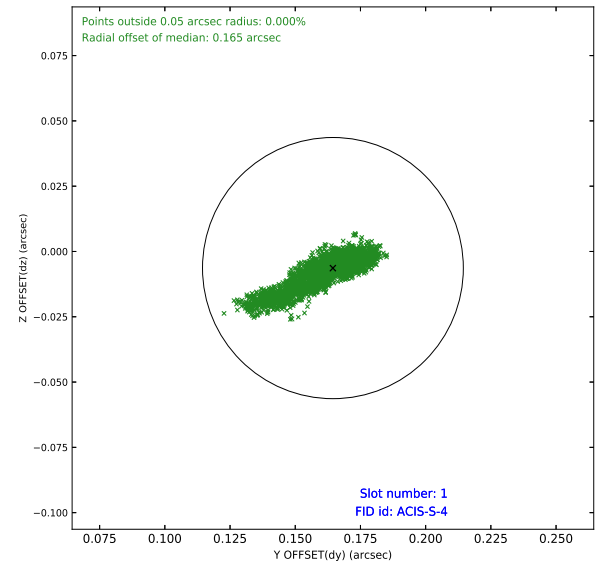
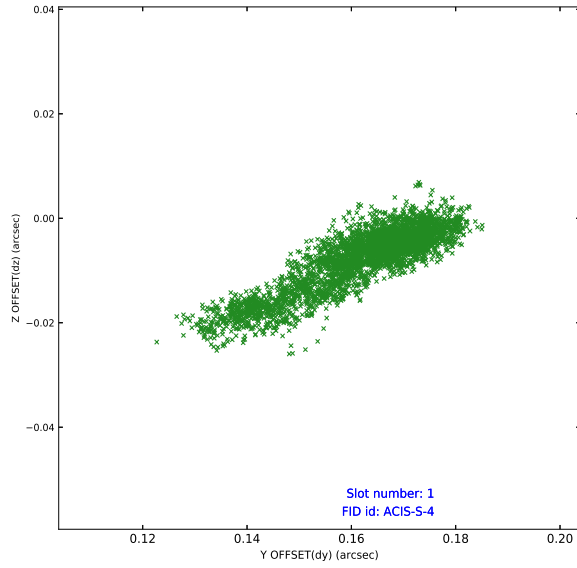


2.5 FID Slots

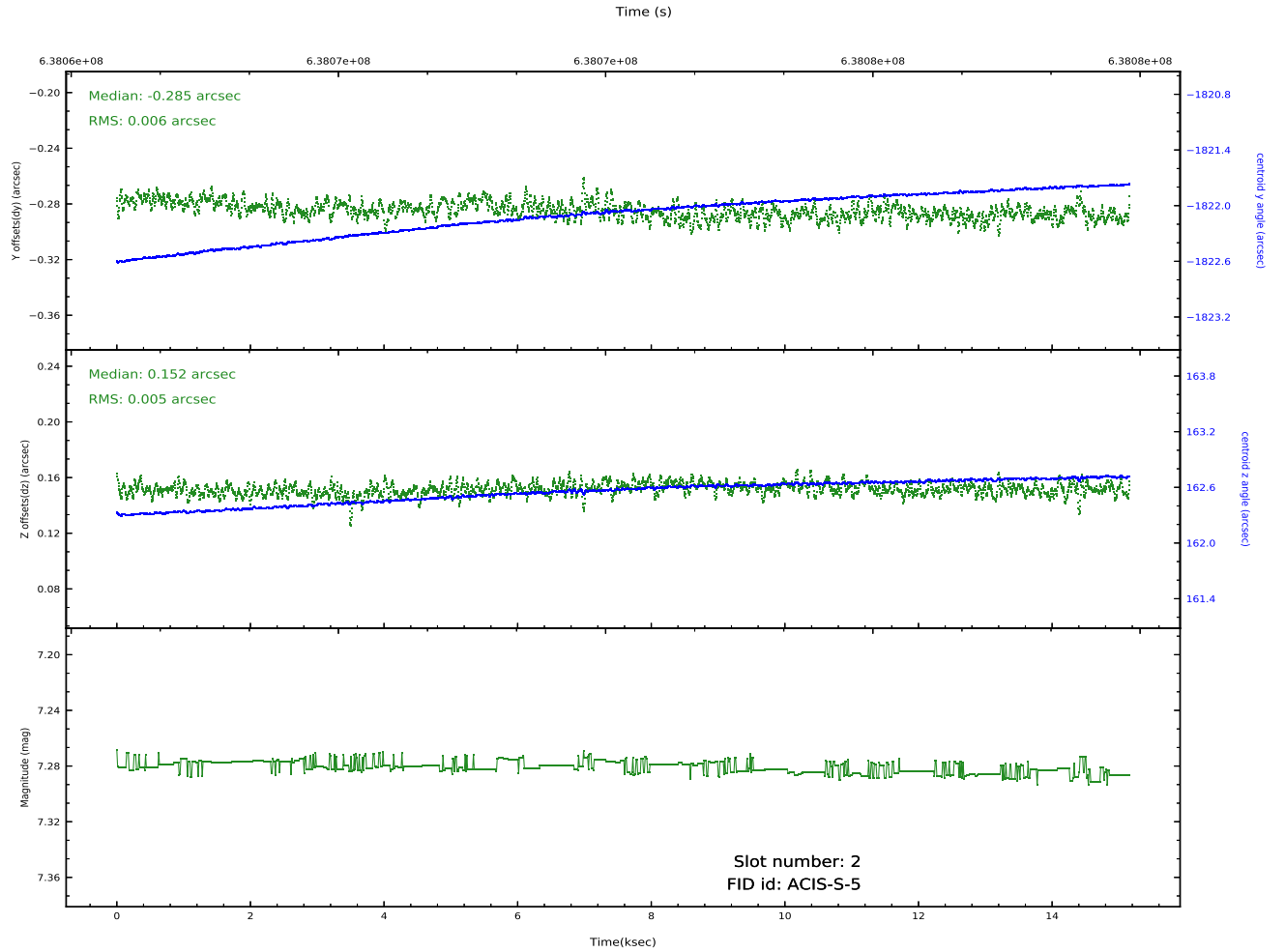
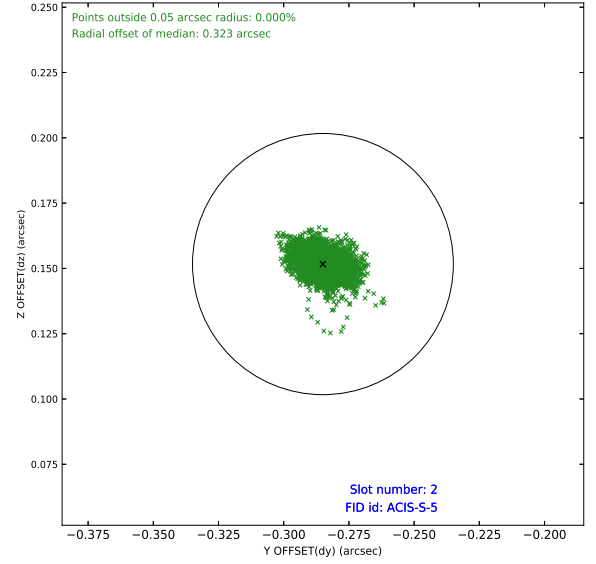
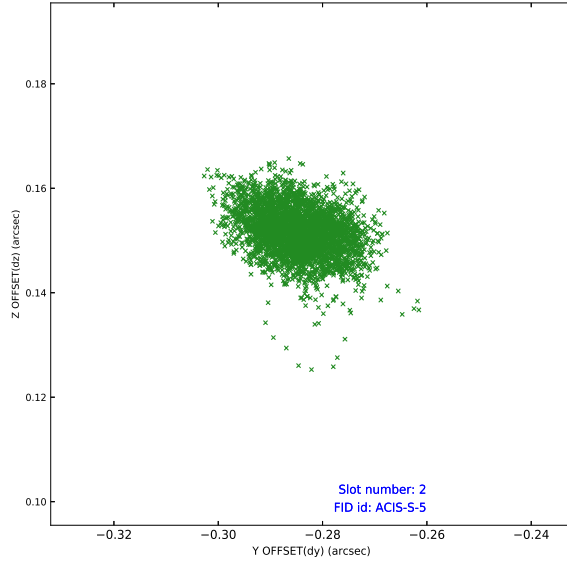
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.059404889941

A.2 Comments

Two optional chips were dropped.