

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20572 - L2 Version 2
Chandra X-Ray Center

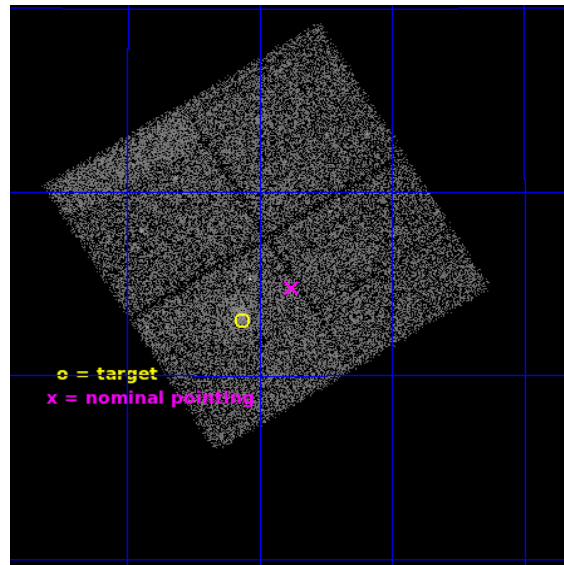
L2 Processing Date : Oct 29 2020

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

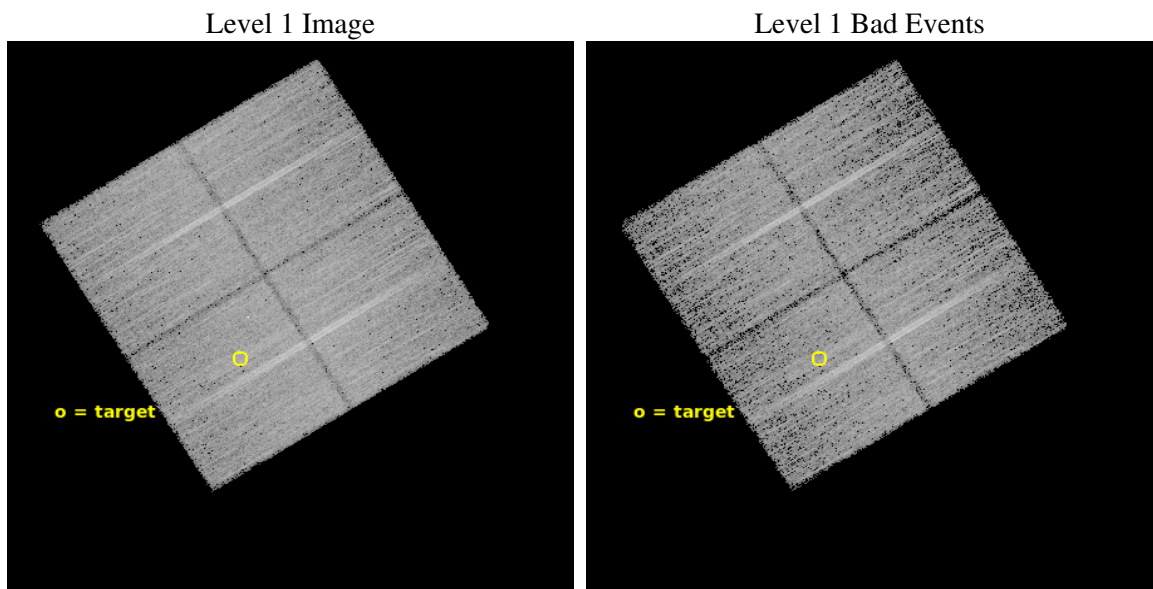
seq_num	801771	Sequence number
obs_id	20572	Observation id
title	The Chandra Strong Lens Sample: Revealing Baryonic Physics In Strong Lensing Selected Clusters	Proposal title
observer	Matthew Bayliss	Principal investigator
object	SDSSJ1329+2243	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.391667	Observer's specified target RA [deg]
dec_targ	22.716667	Observer's specified target Dec [deg]
ra_nom	202.34442572133	Nominal RA [deg]
dec_nom	22.746493993692	Nominal Dec [deg]
roll_nom	148.2241623976	Nominal Roll [deg]
revision	2	Processing version of data
ontime	18379.900141478	Sum of GTIs [s]
livetime	18139.753215044	Livetime [s]
ontime0	18379.900141478	Sum of GTIs [s]
ontime1	18379.900141478	Sum of GTIs [s]
ontime2	18379.900141478	Sum of GTIs [s]
ontime3	18379.900141478	Sum of GTIs [s]
l2events	53322	Number of level 2 events



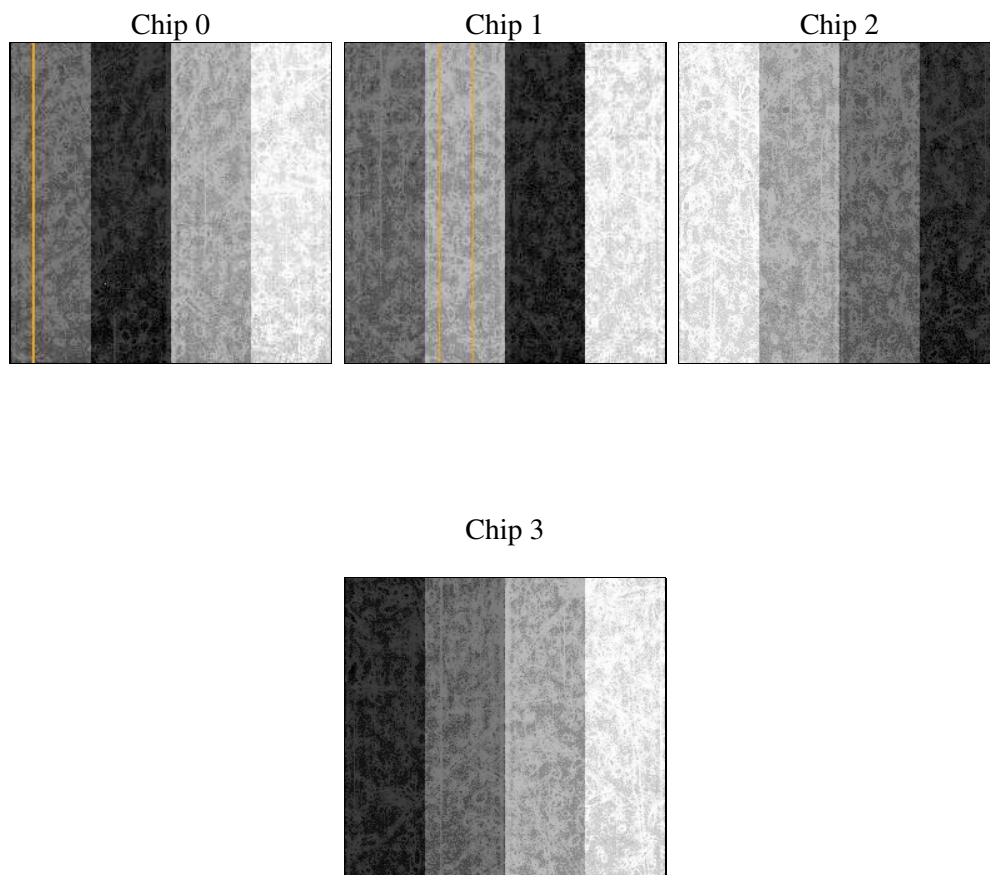
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18300.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	18379.900141478	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	18379.900141478	Sum of GTIs [s]
date	2020-10-30T01:42:59	Date and time of file creation	ontime1	18379.900141478	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	18379.900141478	Sum of GTIs [s]
			ontime3	18379.900141478	Sum of GTIs [s]
			l1events	533230	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	126256	131097	137434	138443
rejected events	110349	113664	122089	122662
rejected %	87%	86%	88%	88%

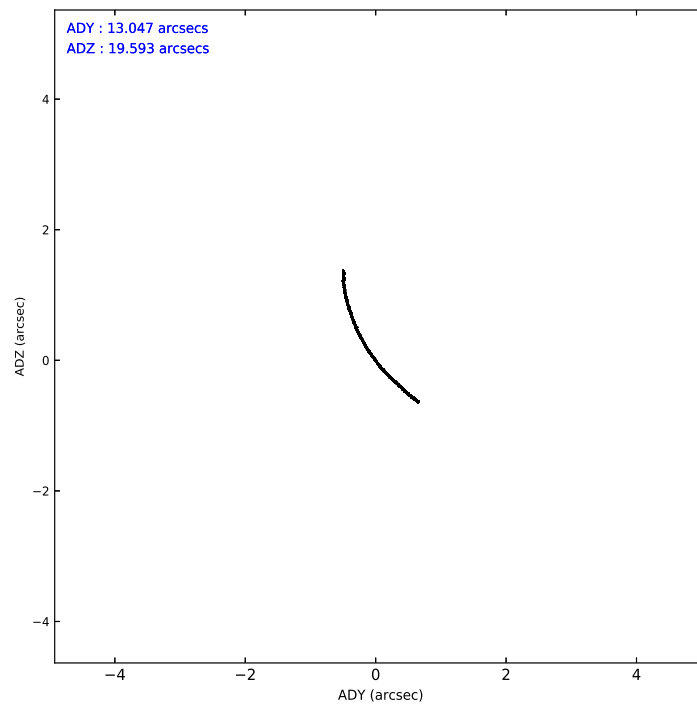
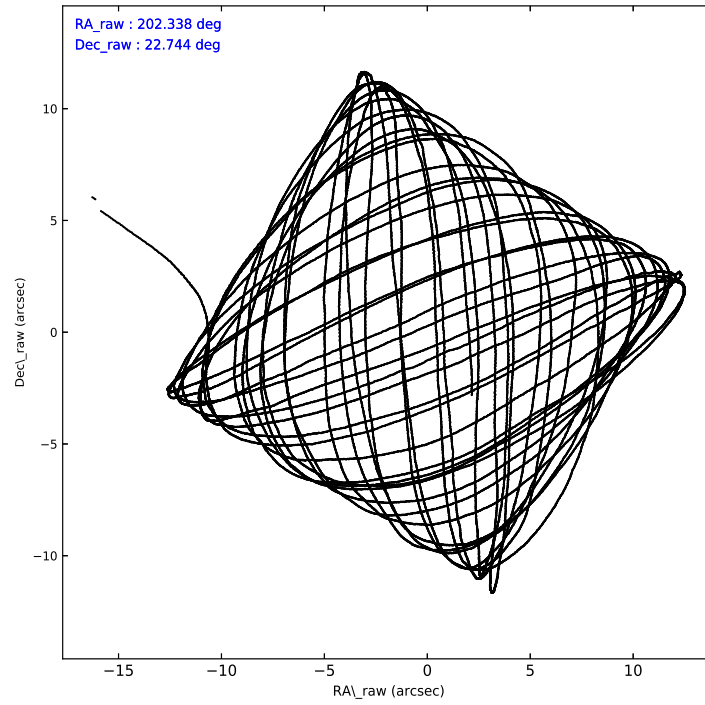
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	5366	5754	5420	6189
	4%	4%	3%	4%
grade 1 events	84	76	81	89
	0%	0%	0%	0%
grade 2 events	4144	4452	3925	3383
	3%	3%	2%	2%
grade 3 events	1641	1679	1497	1581
	1%	1%	1%	1%
grade 4 events	1549	1707	1493	1571
	1%	1%	1%	1%
grade 5 events	6025	6342	5660	6690
	4%	4%	4%	4%
grade 6 events	3210	3843	3012	3059
	2%	2%	2%	2%
grade 7 events	104237	107244	116346	115881
	82%	81%	84%	83%

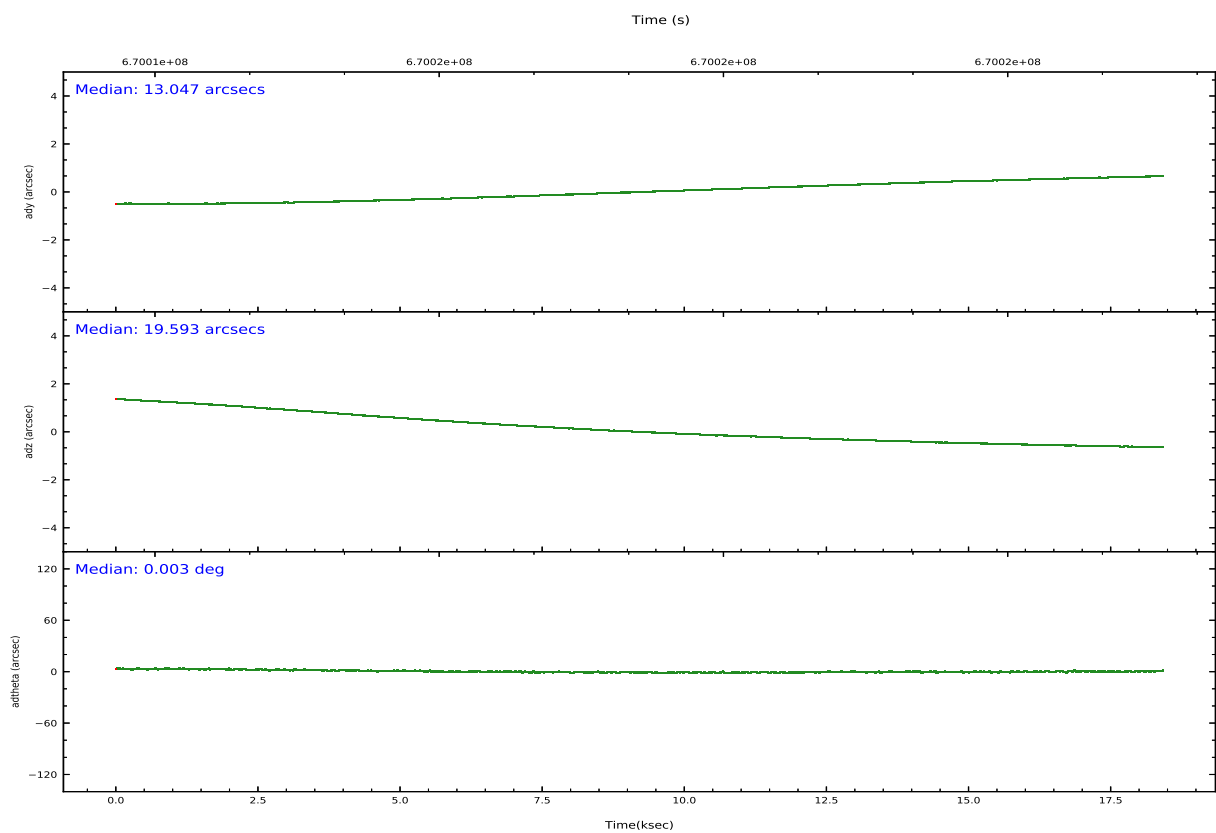
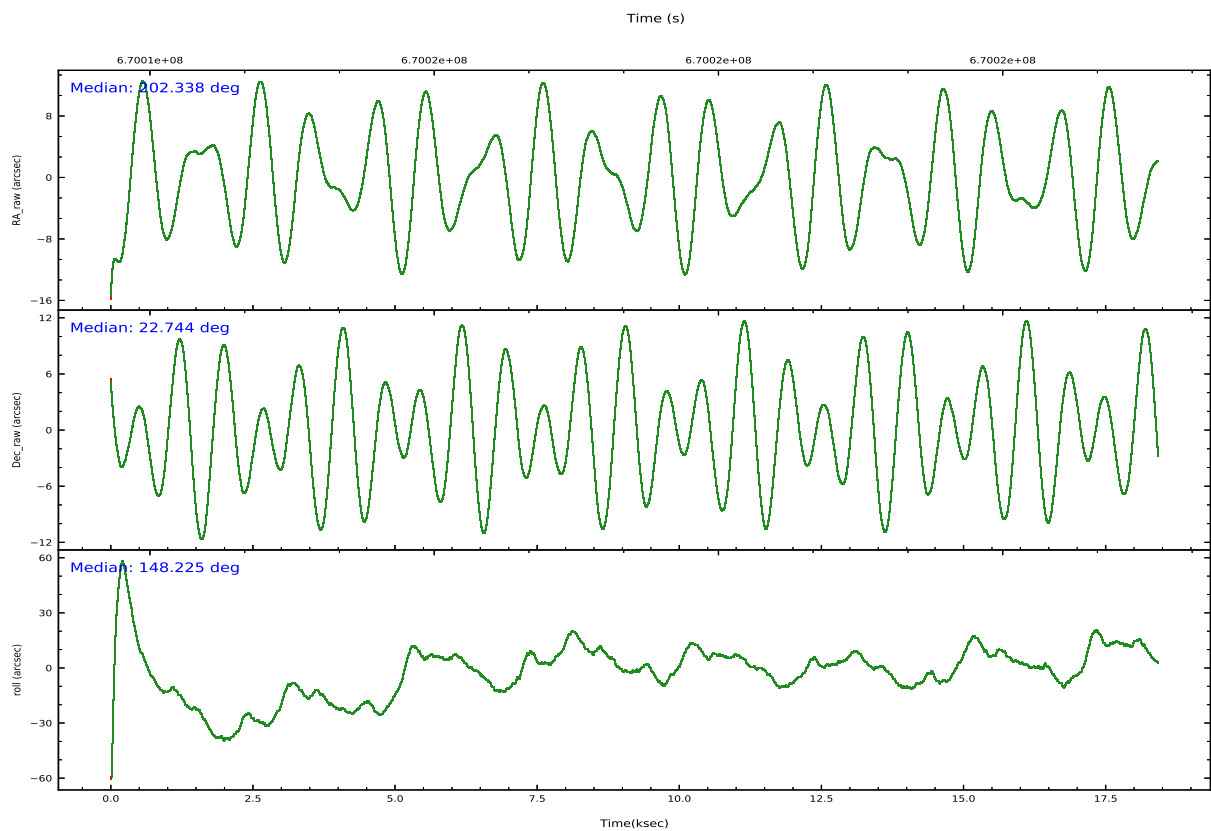
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	202.367702	202.34442572133
[deg] Pointing Dec	22.742858	22.746493993692
[deg] Pointing Roll	148.009256	148.2241623976
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-225.840463	-225.8433433320239
[mm] SIM translation stage offset	-7.752	-7.749109670905796
[s] Observation start time (MET)	670009434.184000	670008086.58705
Observation start date	2019-03-26T17:42:45	2019-03-26T17:21:26
[s] Observation end time (MET)	670027734.184000	670028435.4007601
Observation end date	2019-03-26T22:47:45	2019-03-26T23:00:35
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	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	N
CCD S3 on	O2	N
CCD S4 on	N	N
CCD S5 on	N	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



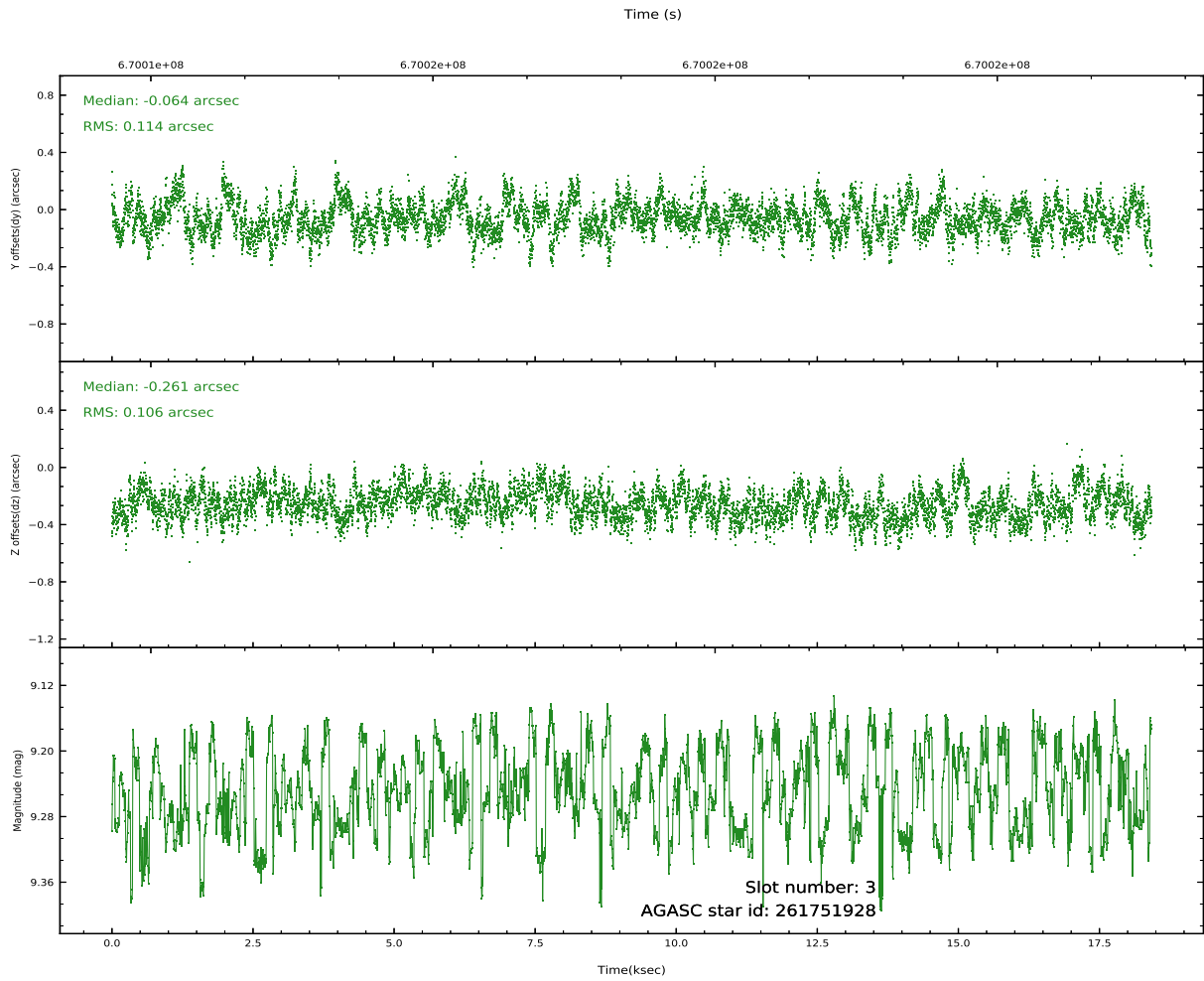
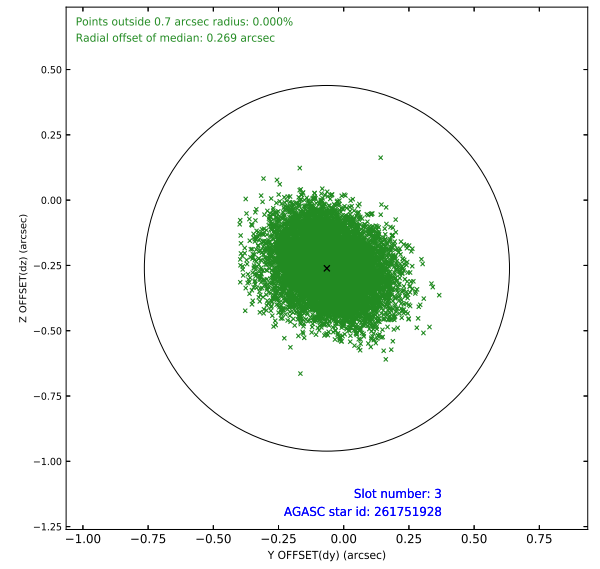
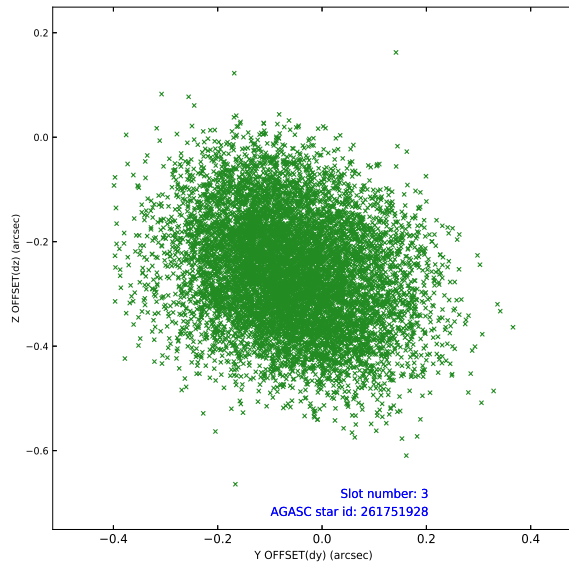


Slot Statistics

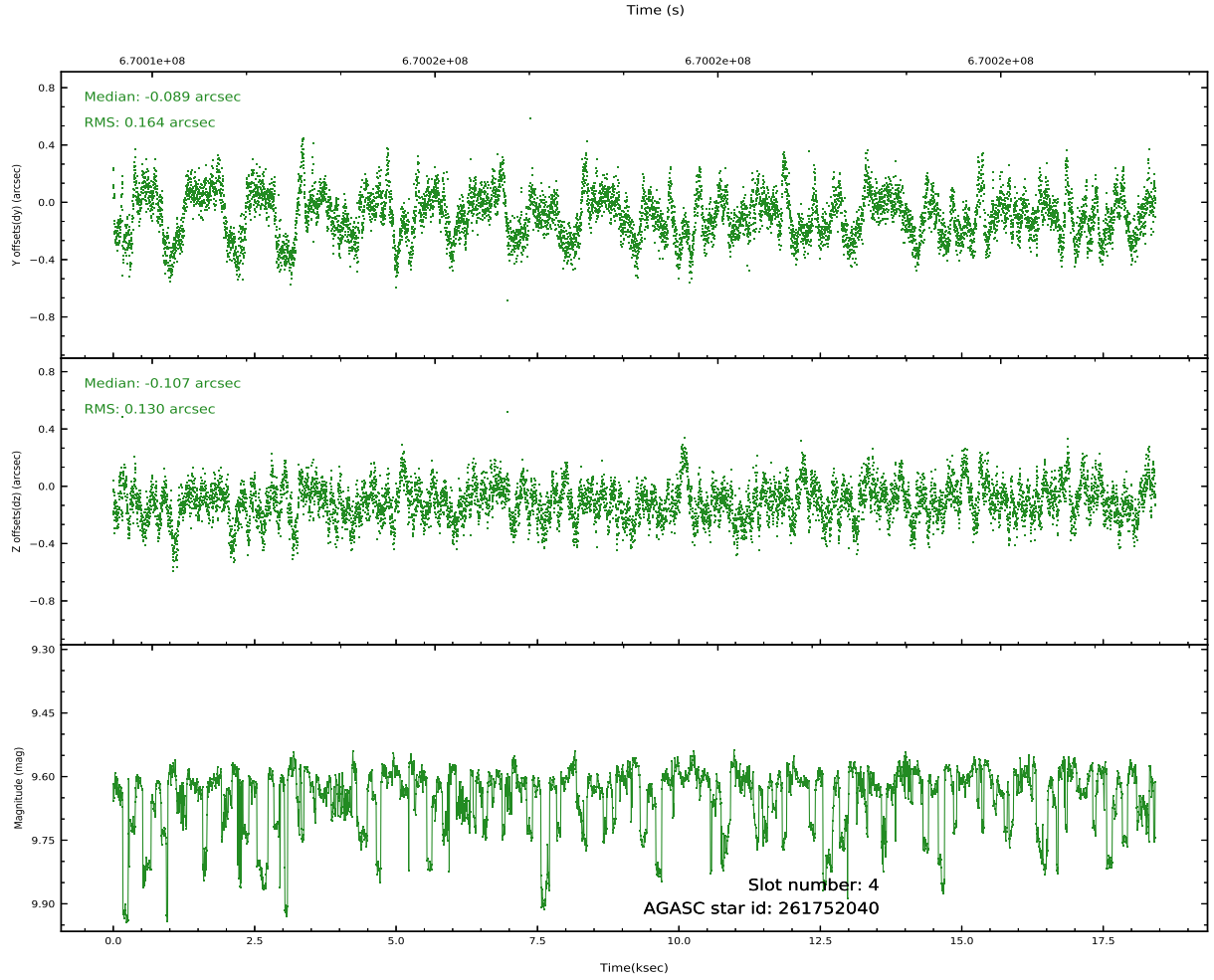
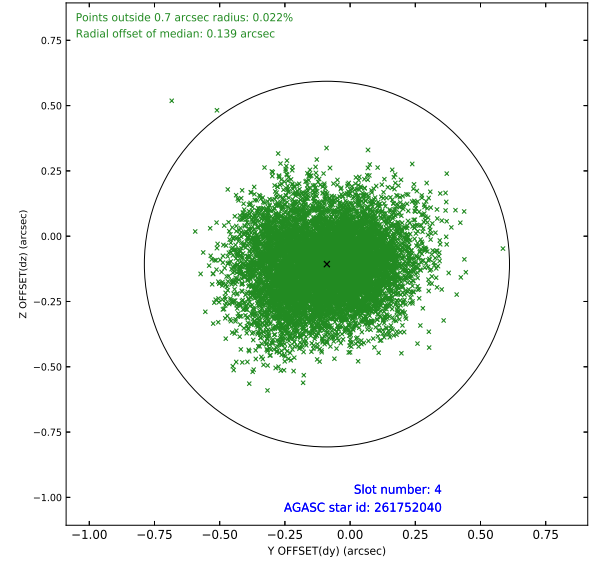
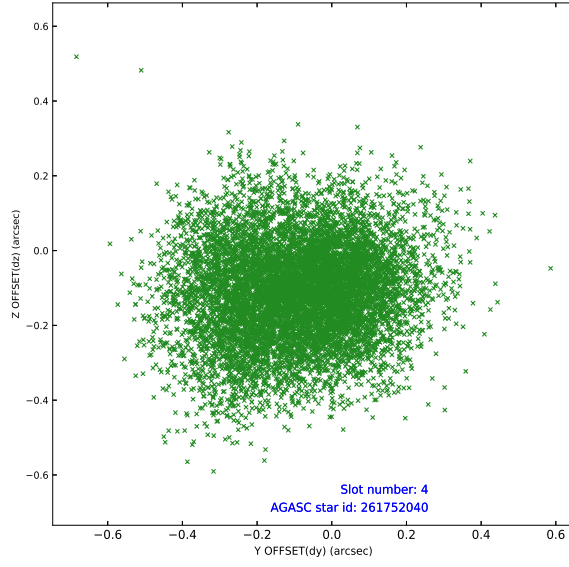
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.11	4493	1.000	0.295	-0.238	0.050	0.079	0.000000	0.000000	926.51	-1002
1	FID		ACIS-I-5	7.10	4494	1.000	-0.344	0.245	0.013	0.028	0.000000	0.000000	-1821.95	895
2	FID		ACIS-I-6	7.13	4492	1.000	-0.041	0.067	0.044	0.056	0.000000	0.000000	391.69	1539
3	GUIDE	used	261751928	9.25	8976	1.000	-0.064	-0.261	0.168	0.266	201.789364	22.958525	2039.92	354
4	GUIDE	used	261752040	9.63	8955	1.000	-0.089	-0.107	0.224	0.358	201.676803	22.825110	2103.53	959
5	GUIDE	used	261753592	8.69	8974	1.000	-0.020	0.191	0.119	0.193	202.628279	22.513075	-1173.62	242
6	GUIDE	used	261756656	9.52	8963	1.000	0.316	0.154	0.261	0.492	202.172140	23.580259	2144.51	-2214
7	GUIDE	used	261757904	7.95	8978	1.000	-0.135	0.030	0.134	0.210	202.167276	23.288034	1601.88	-1313

2.4 Star Slots

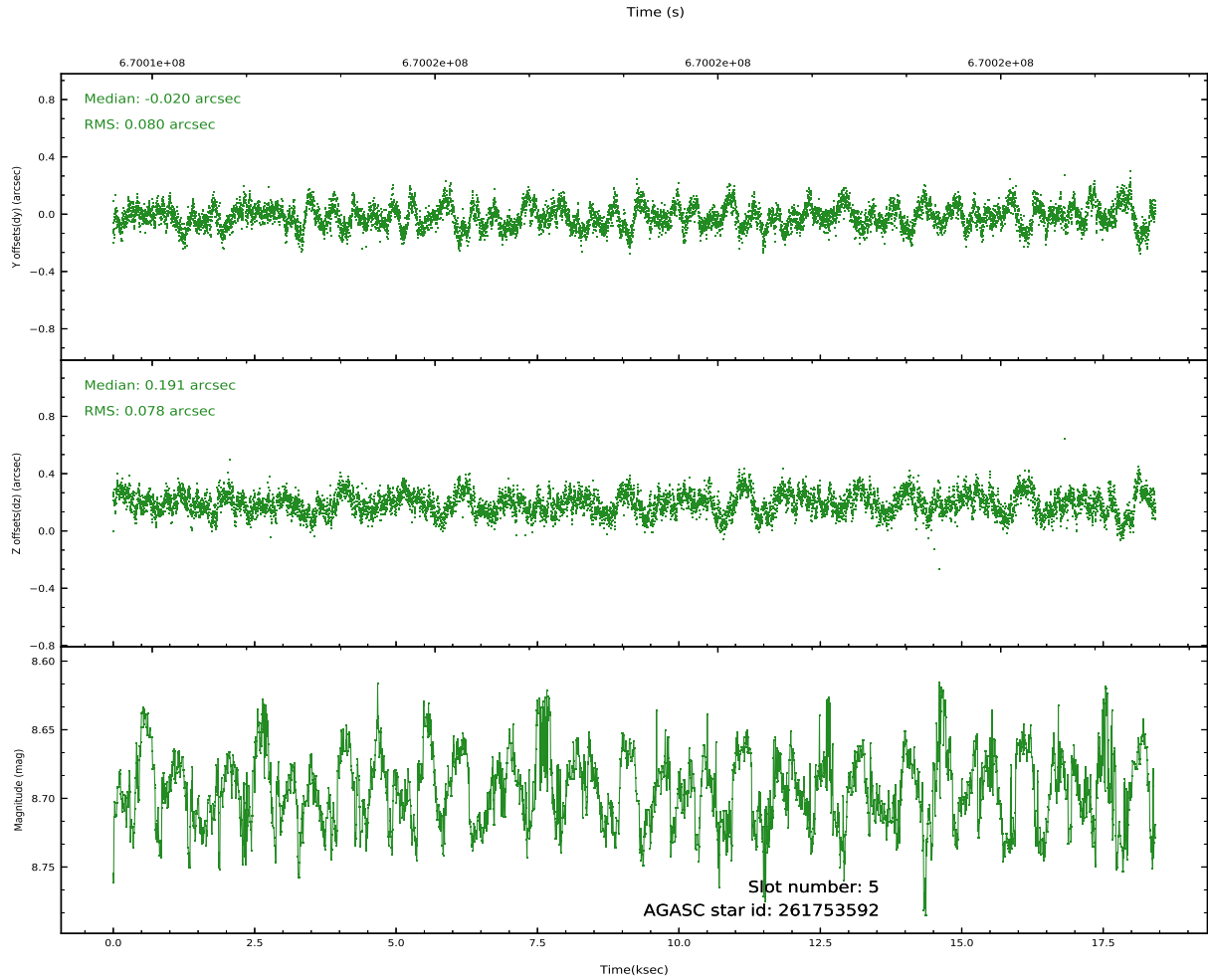
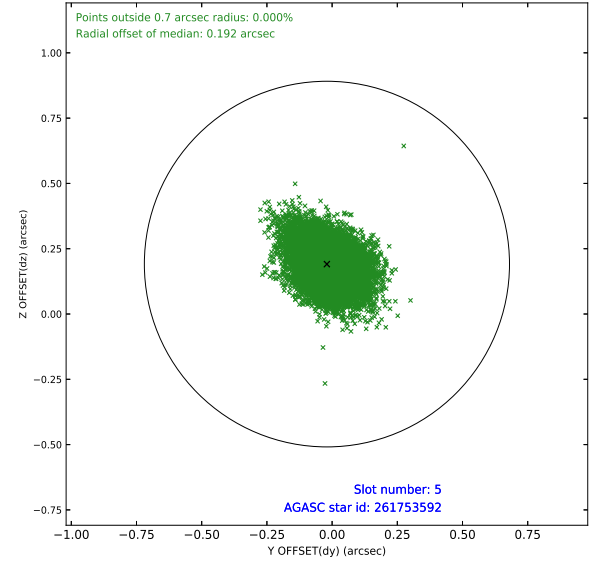
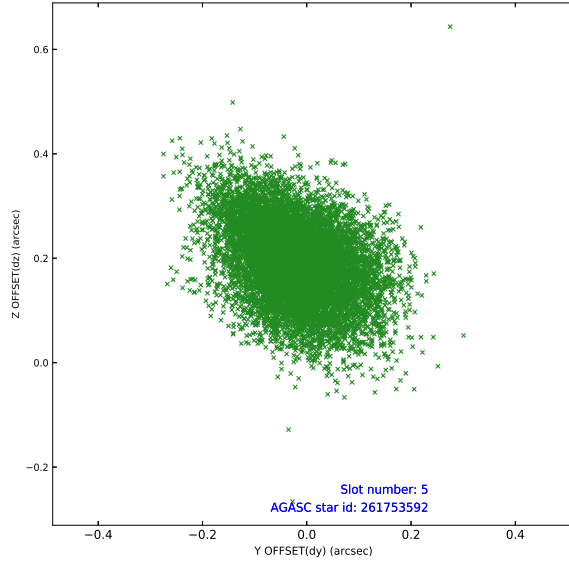
2.4.1 Slot 3



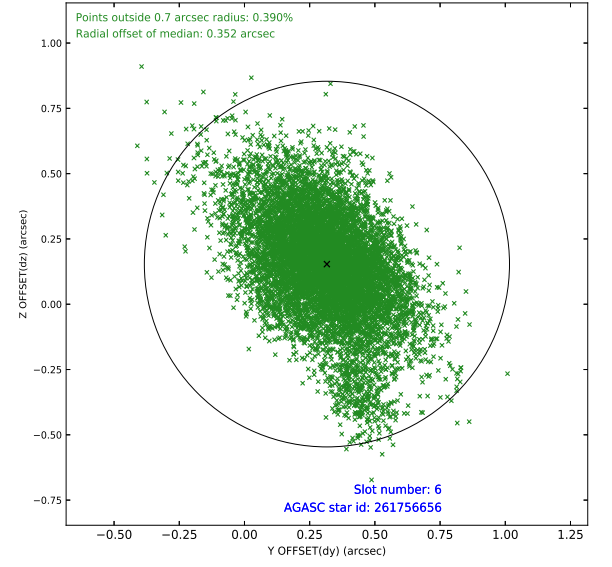
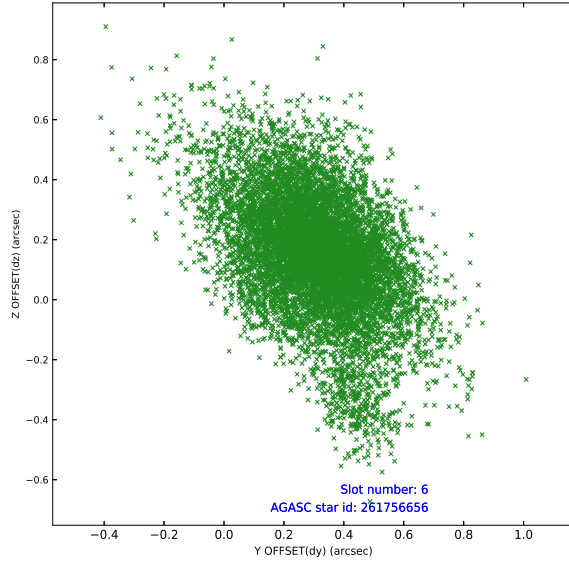
2.4.2 Slot 4



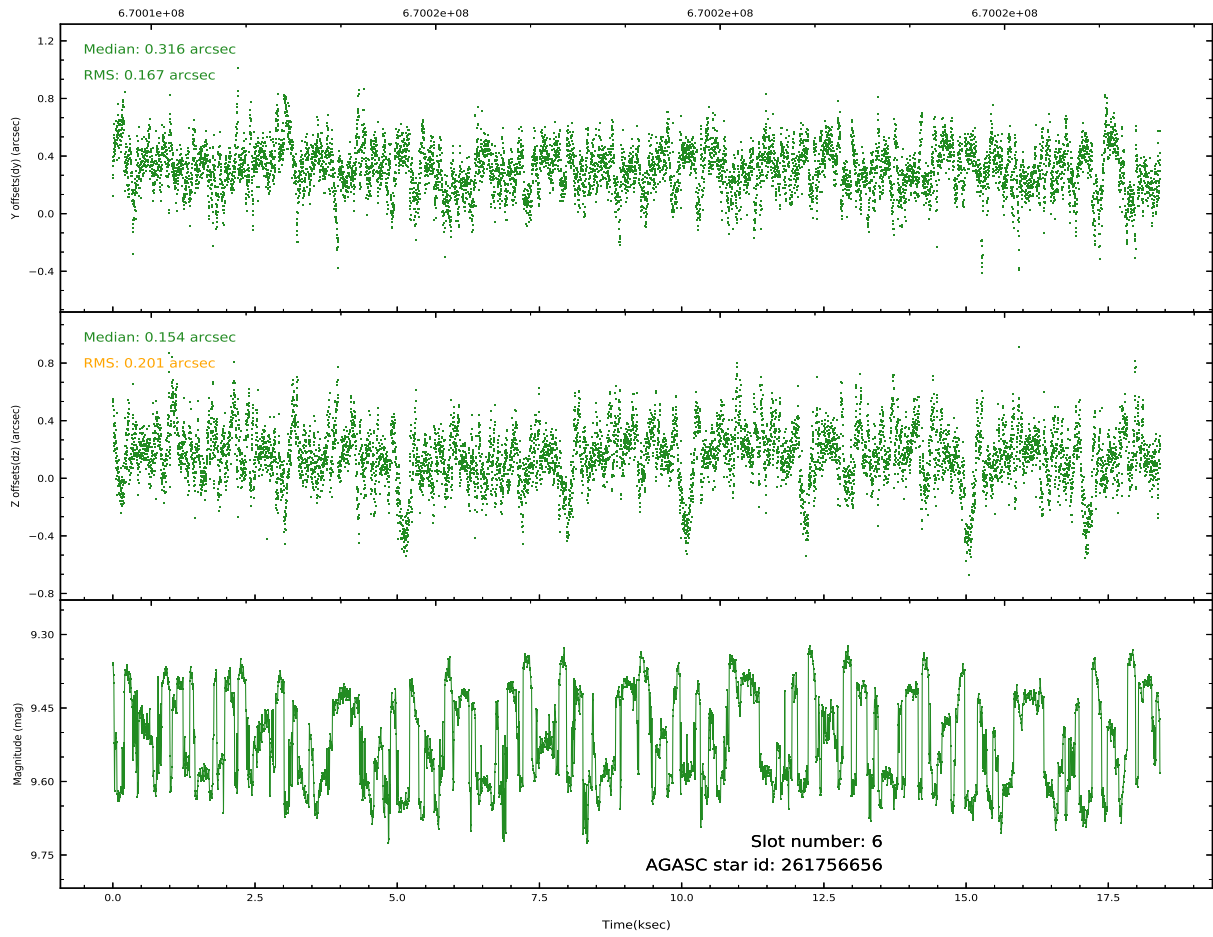
2.4.3 Slot 5



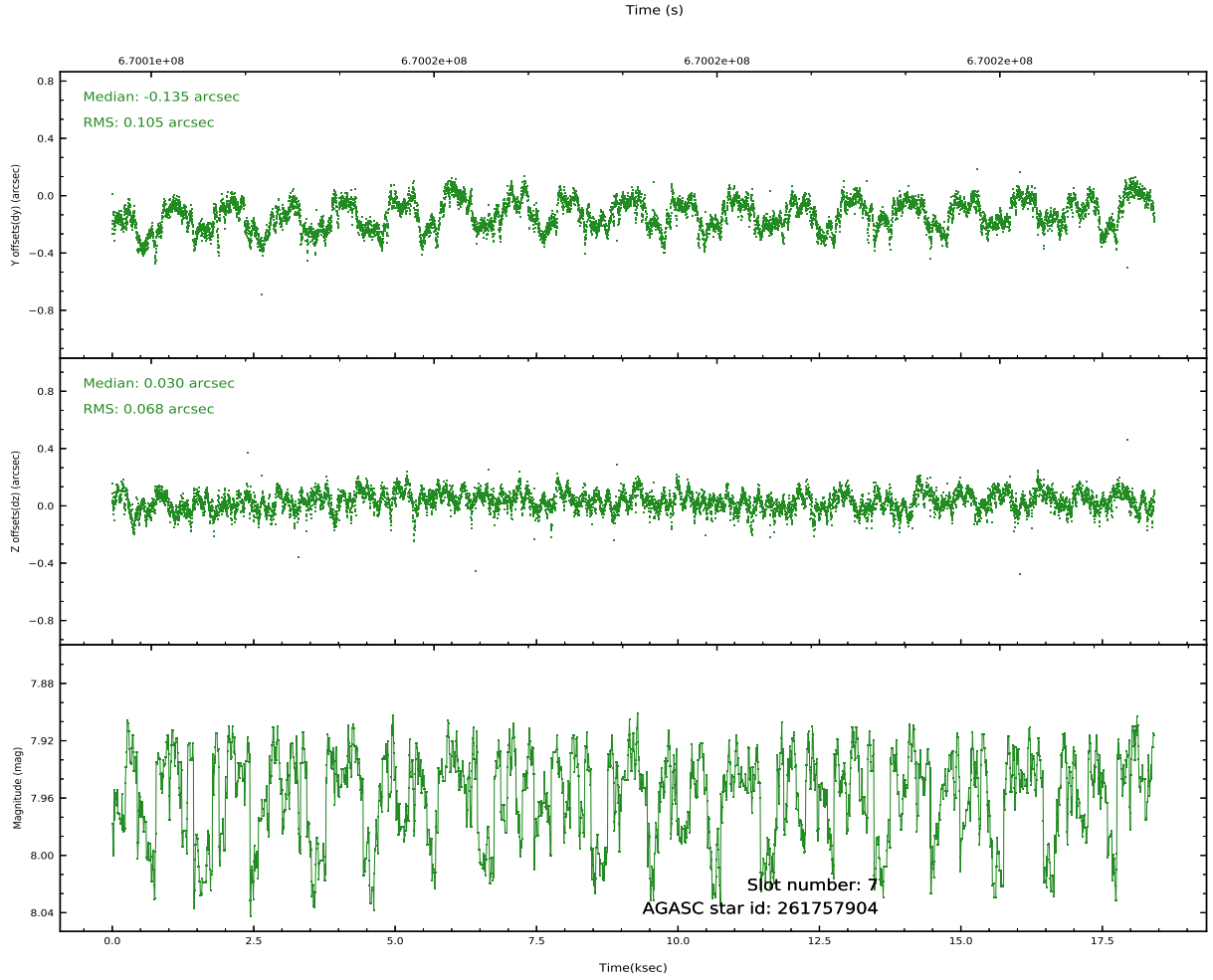
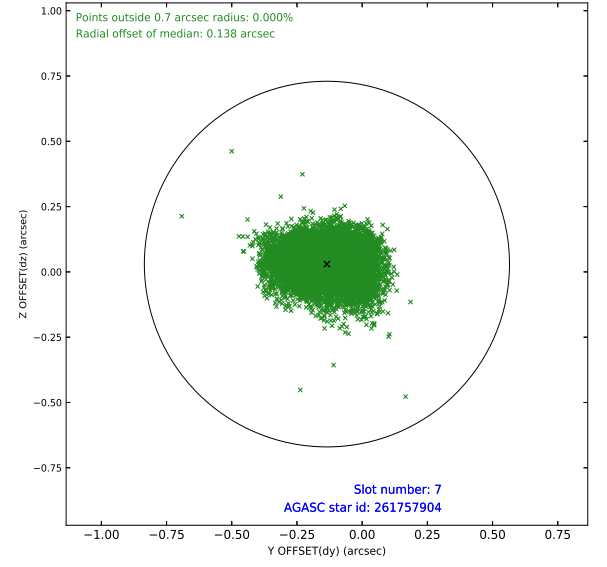
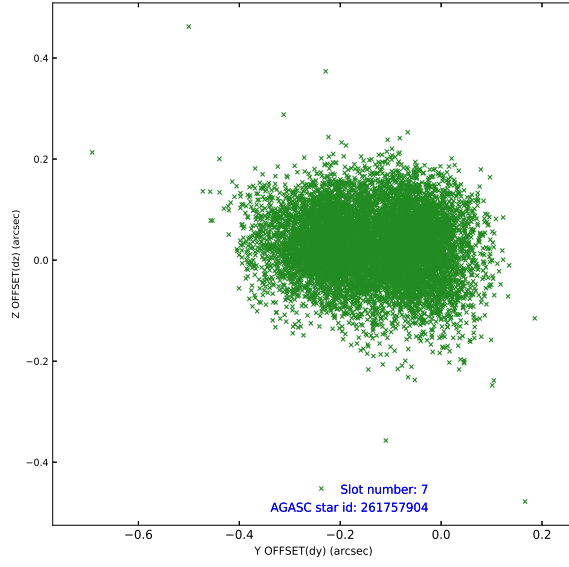
2.4.4 Slot 6



Time (s)

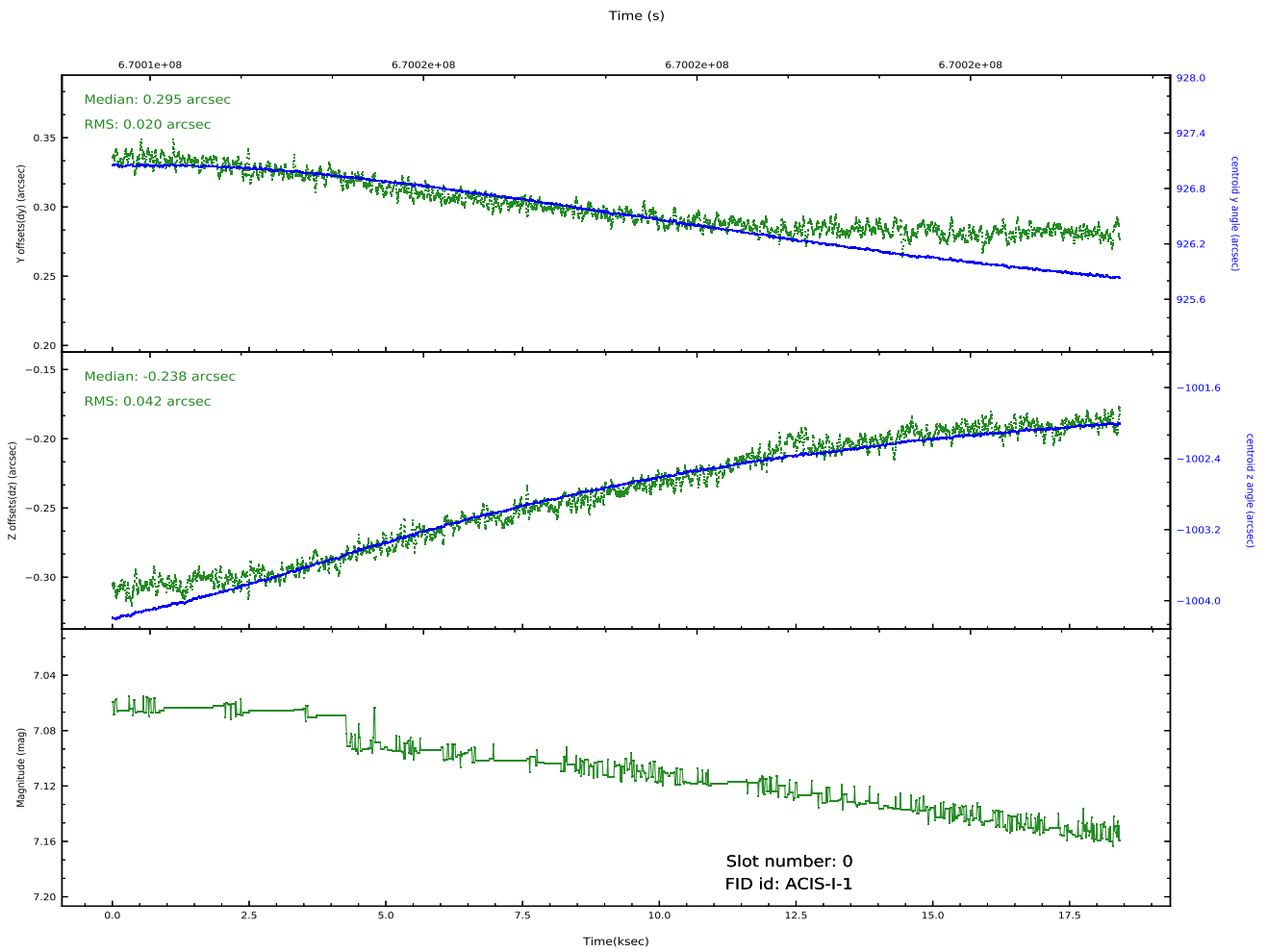
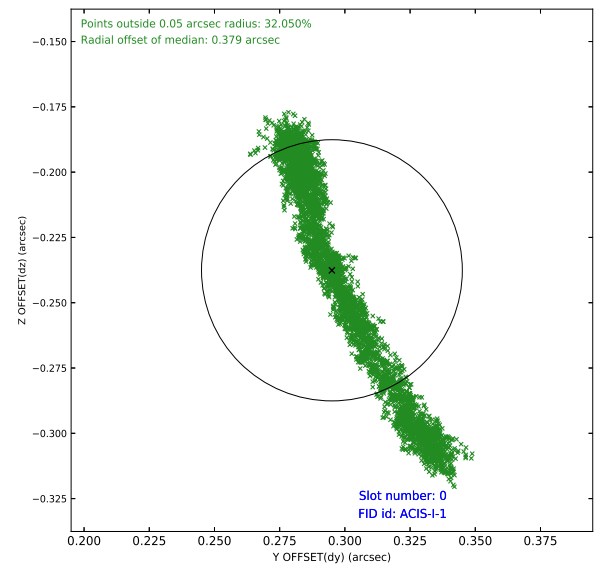
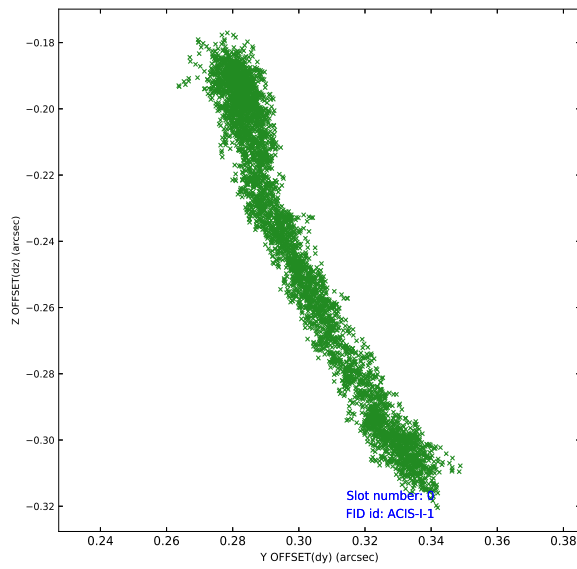


2.4.5 Slot 7

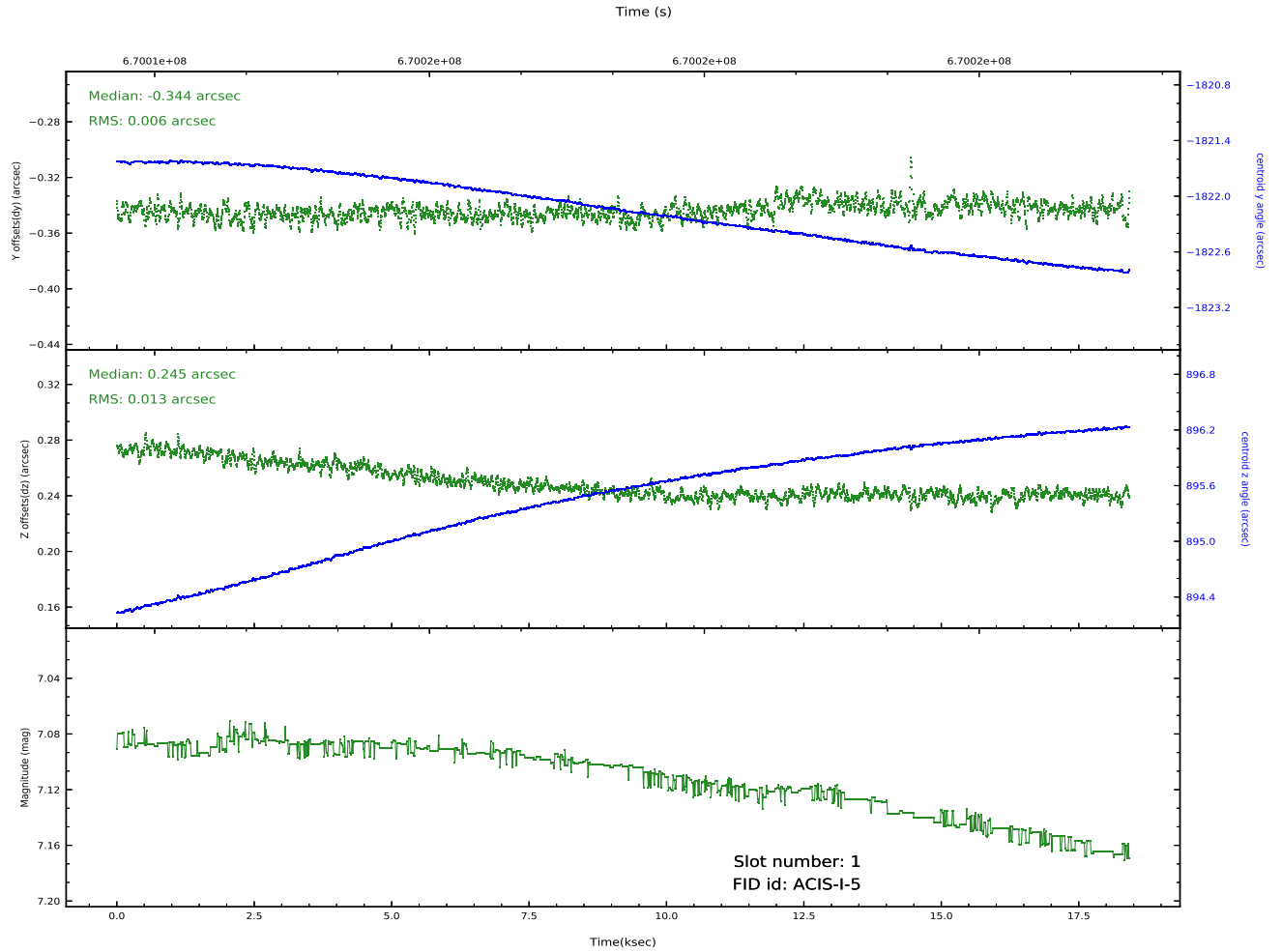
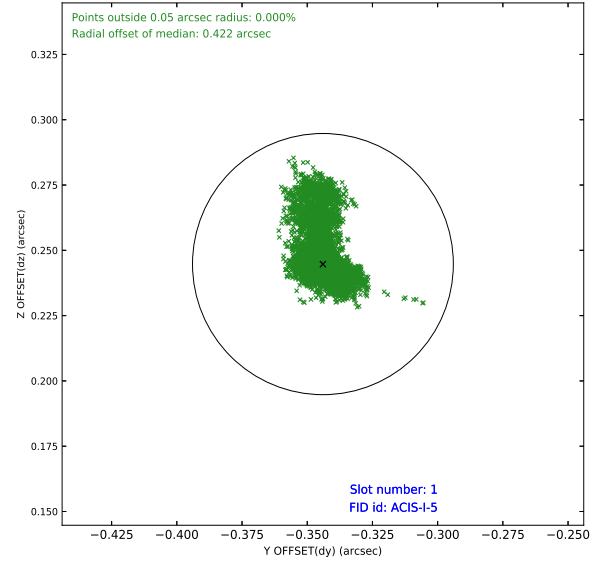
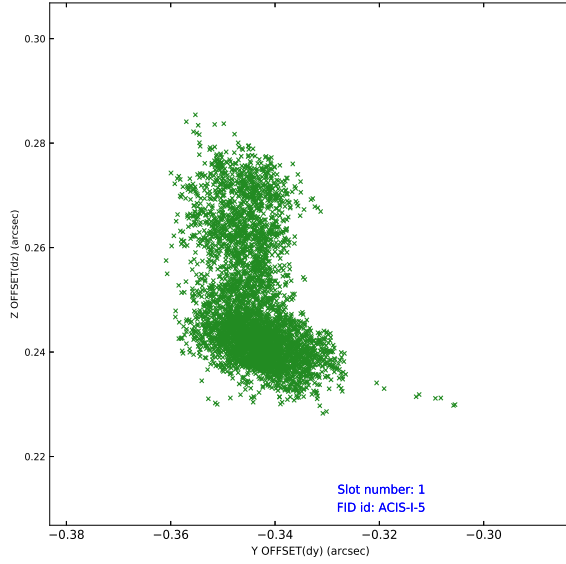


2.5 FID Slots

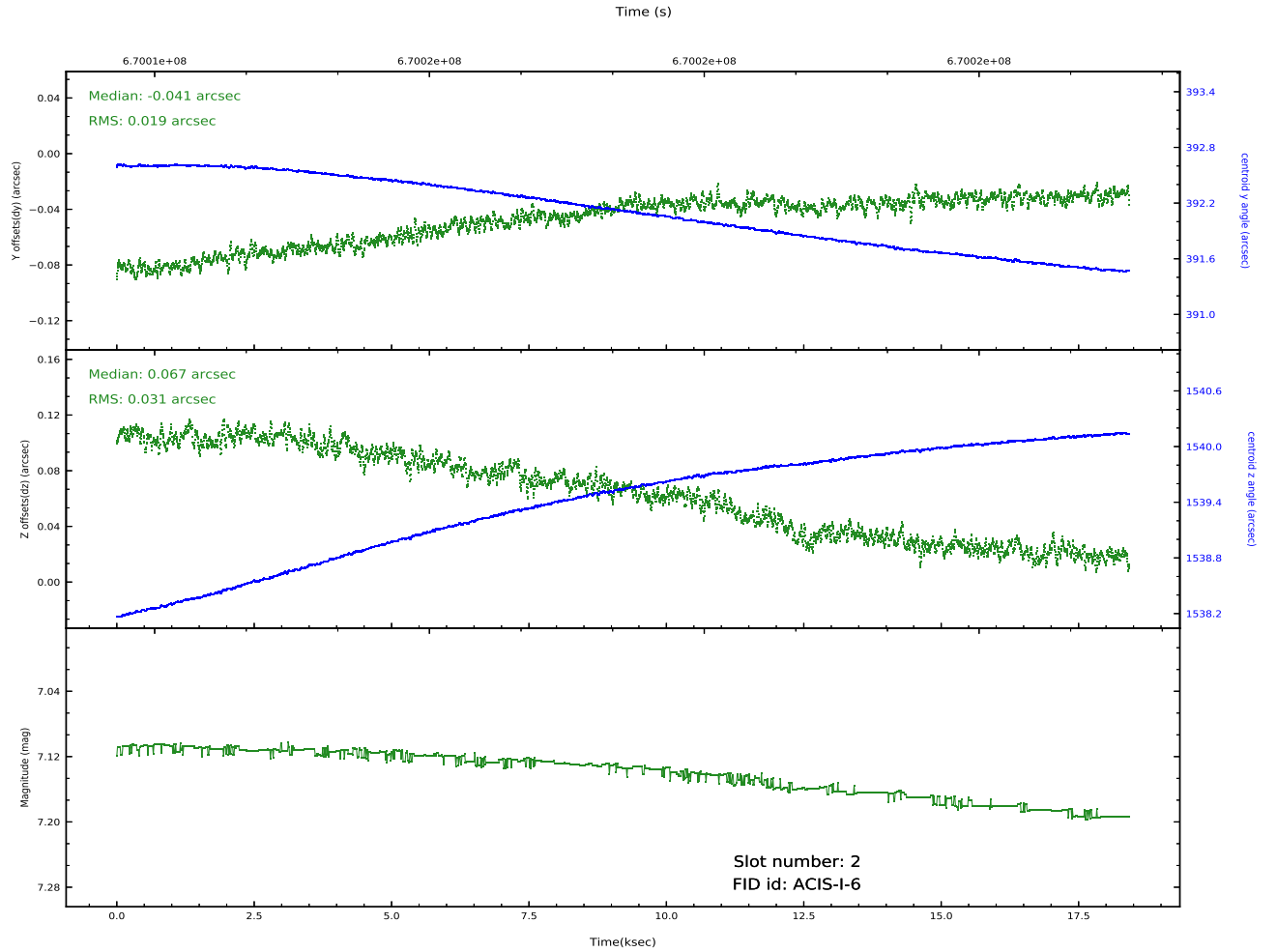
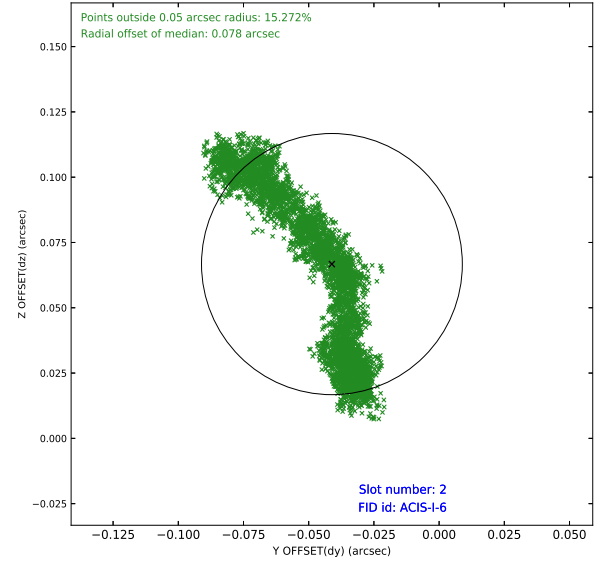
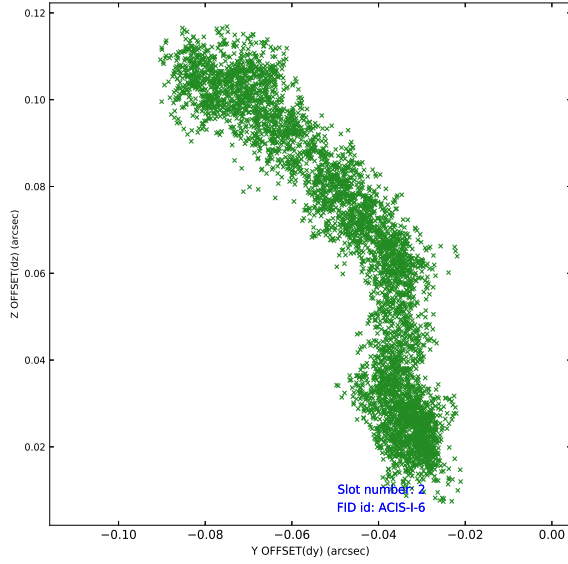
2.5.1 Slot 0



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)	2020.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.379900141478

A.2 Comments

Joint proposal with HST. Two optional chips were dropped.