

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19757 - L2 Version 2
Chandra X-Ray Center

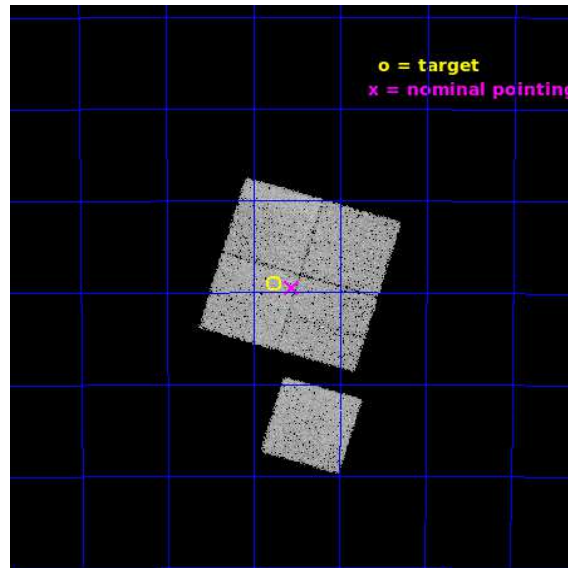
L2 Processing Date : Oct 24 2020

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1 Front

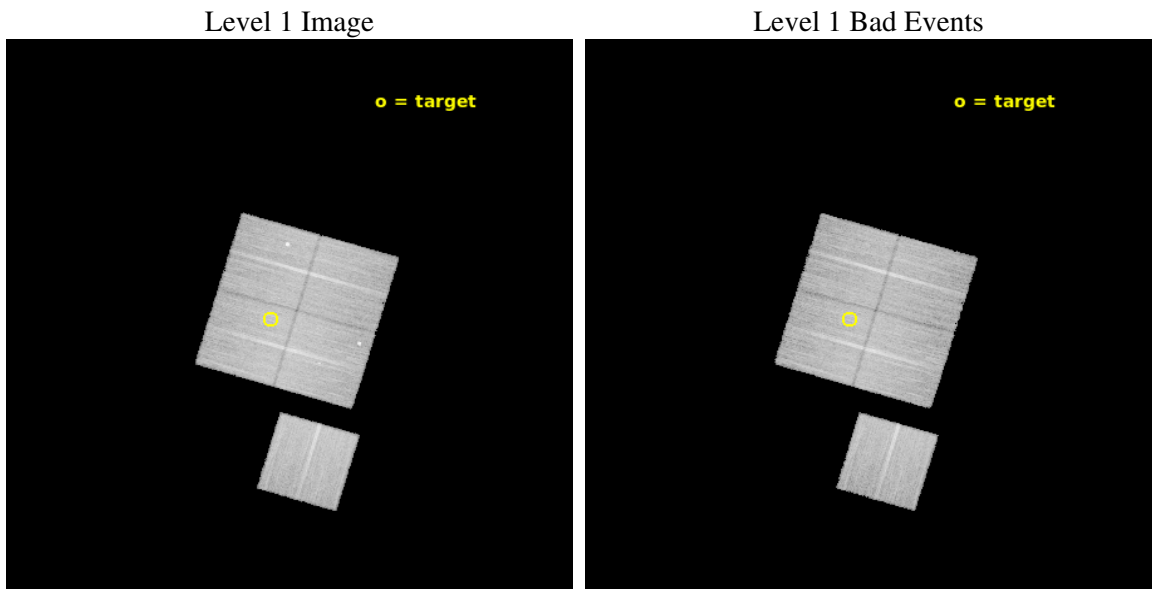
seq_num	801694	Sequence number
obs_id	19757	Observation id
title	A Chandra Survey of high-redshift ($0.7 < z < 0.8$) clusters selected in the 100 deg ² SPT-Pol Deep Field	Proposal title
observer	Gordon Garmire	Principal investigator
object	SPT-CLJ2355-5259	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	358.940833	Observer's specified target RA [deg]
dec_targ	-52.984	Observer's specified target Dec [deg]
ra_nom	358.88906010023	Nominal RA [deg]
dec_nom	-52.991531754157	Nominal Dec [deg]
roll_nom	196.63646480158	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20884.618160248	Sum of GTIs [s]
livetime	20611.745248952	Livetime [s]
ontime0	20884.61817944	Sum of GTIs [s]
ontime1	20890.900160789	Sum of GTIs [s]
ontime2	20884.618070364	Sum of GTIs [s]
ontime3	20884.618160248	Sum of GTIs [s]
ontime6	20890.900160789	Sum of GTIs [s]
l2events	72099	Number of level 2 events



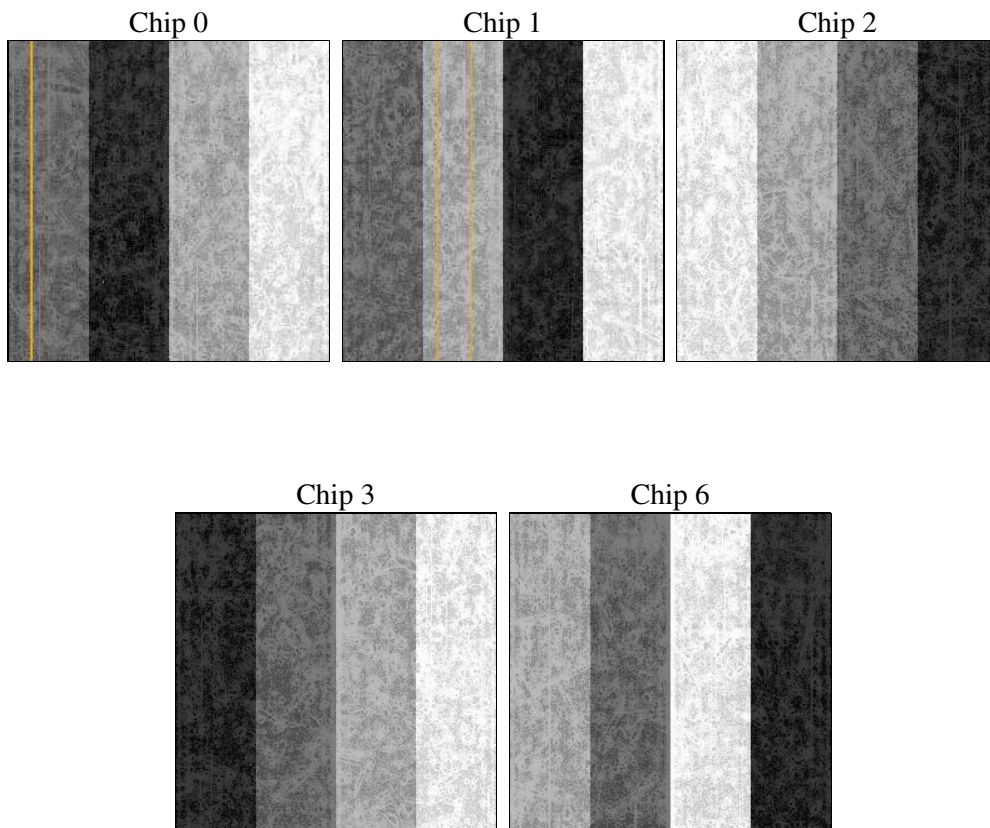
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	20884.618160248	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	20884.61817944	Sum of GTIs [s]
date	2020-10-25T01:46:43	Date and time of file creation	ontime1	20890.900160789	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	20884.618070364	Sum of GTIs [s]
			ontime3	20884.618160248	Sum of GTIs [s]
			ontime6	20890.900160789	Sum of GTIs [s]
			l1events	757469	Number of level 1 events

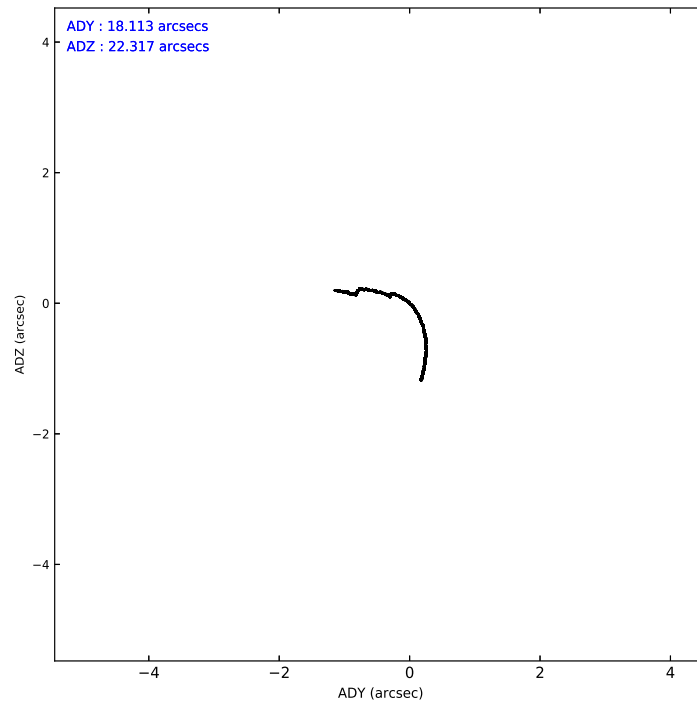
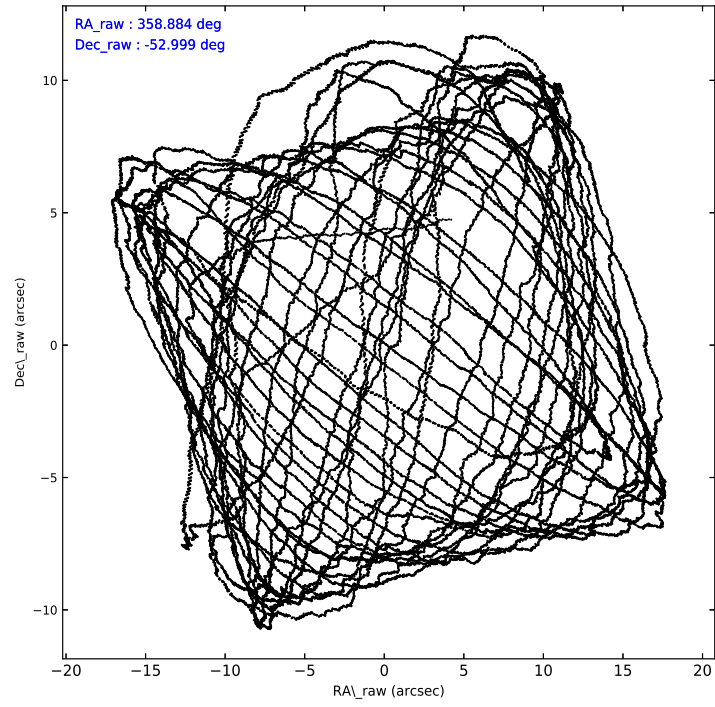
2.1.4 Events

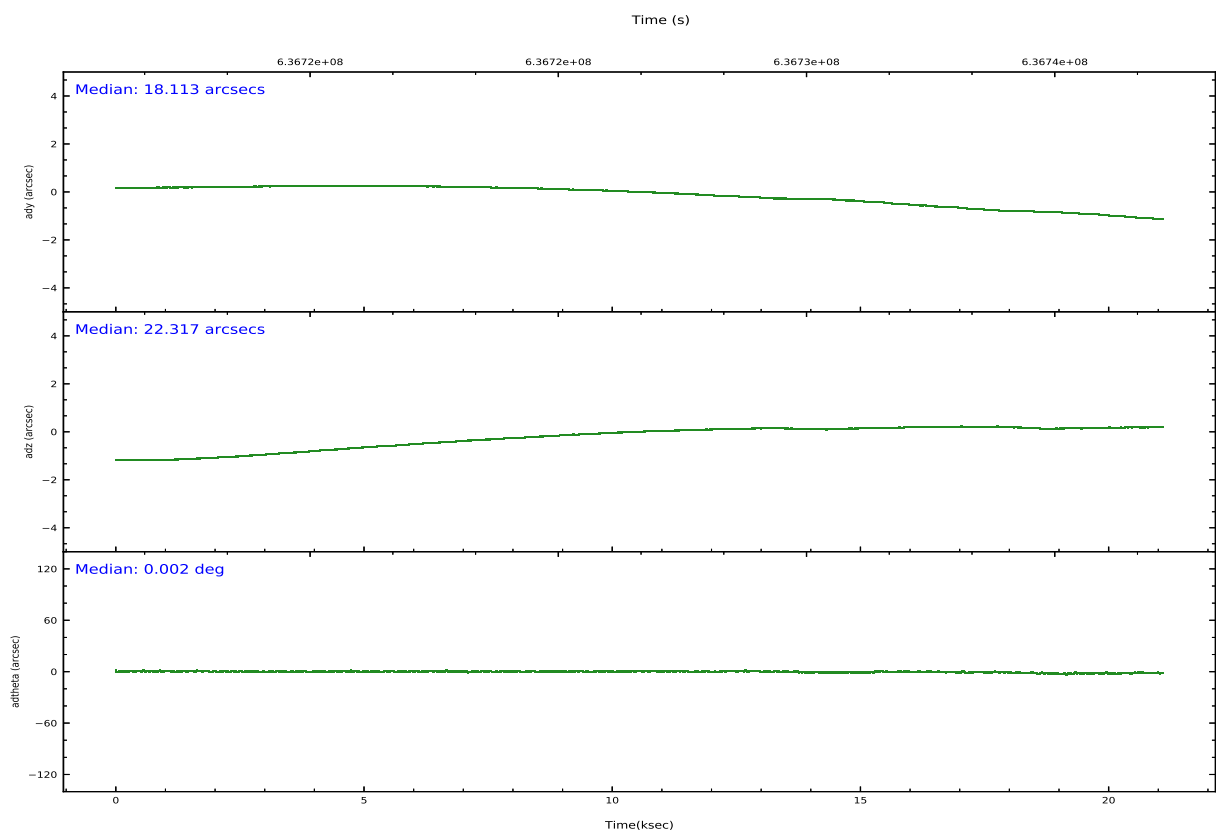
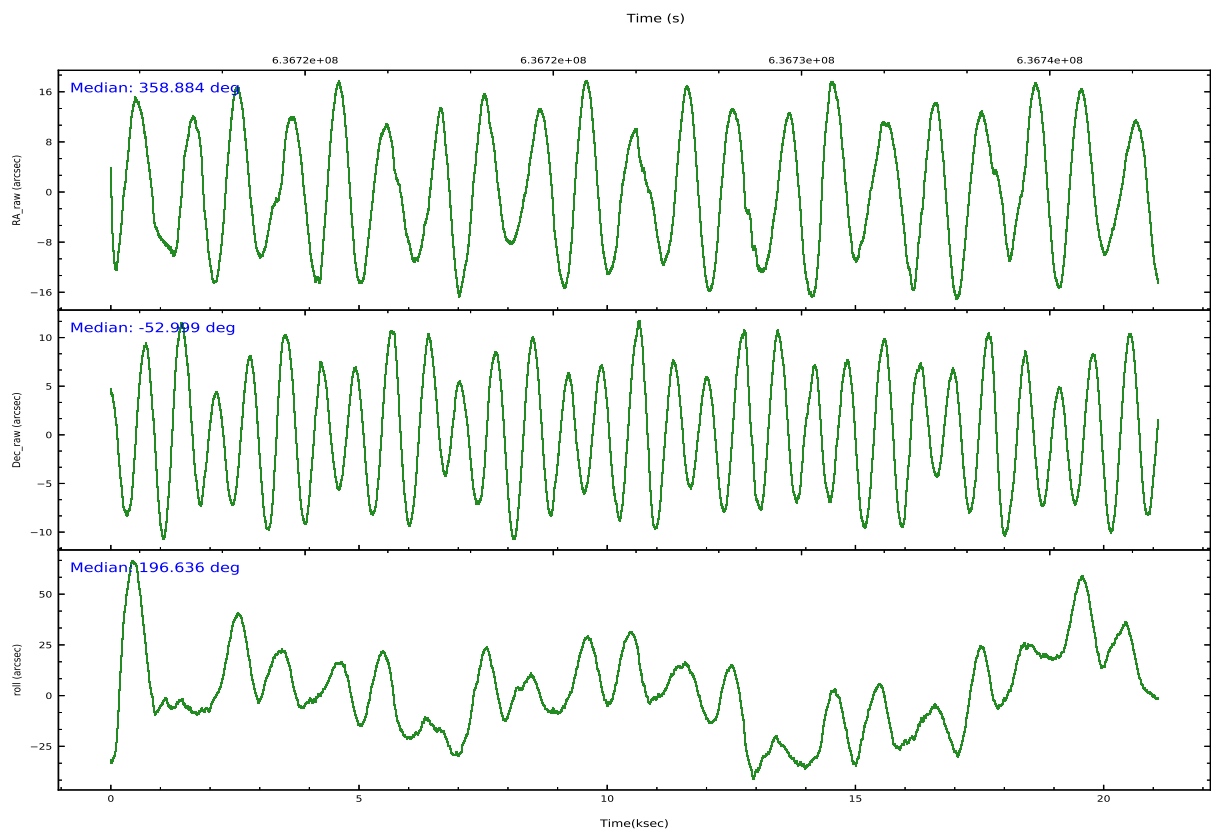
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	139242	147555	161149	153028	156495	grade 0 events	5648	7423	7318	5995	5559
rejected events	122328	127458	143094	136690	139221		4%	5%	4%	3%	3%
rejected %	87%	86%	88%	89%	88%	grade 1 events	85	95	99	80	78
							0%	0%	0%	0%	0%
						grade 2 events	4295	4895	4147	3664	4081
							3%	3%	2%	2%	2%
						grade 3 events	1774	1730	1630	1622	1708
							1%	1%	1%	1%	1%
						grade 4 events	1610	1825	1654	1700	1722
							1%	1%	1%	1%	1%
						grade 5 events	6421	6716	5756	7212	6947
							4%	4%	3%	4%	4%
						grade 6 events	3590	4230	3309	3364	4209
							2%	2%	2%	2%	2%
						grade 7 events	115819	120641	137236	129391	132191
							83%	81%	85%	84%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	358.914882	358.88906010023	CCD I2 on	Y	Y
[deg] Pointing Dec	-52.978854	-52.991531754157	CCD I3 on	Y	Y
[deg] Pointing Roll	196.446165	196.63646480158	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-230.082463	-230.0900218763587	CCD S3 on	N	N
[mm] SIM translation stage offset	-3.51	-3.502431126570968	CCD S4 on	N	N
[s] Observation start time (MET)	636716185.184000	636714886.3046	CCD S5 on	N	N
Observation start date	2018-03-06T09:35:16	2018-03-06T09:14:46	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	636737185.184000	636738155.85597	On-chip summing requested	N	N
Observation end date	2018-03-06T15:25:16	2018-03-06T15:42:35	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



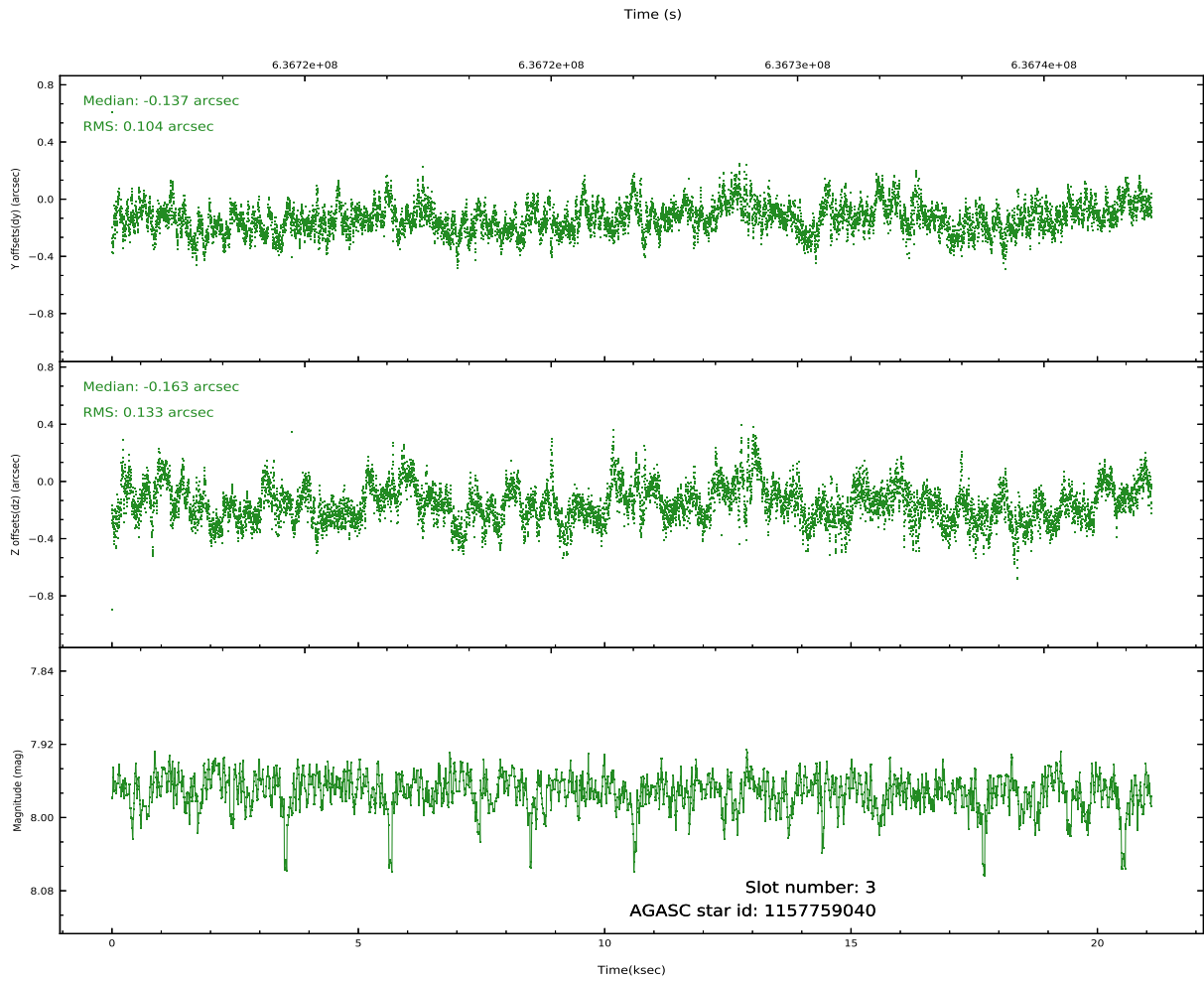
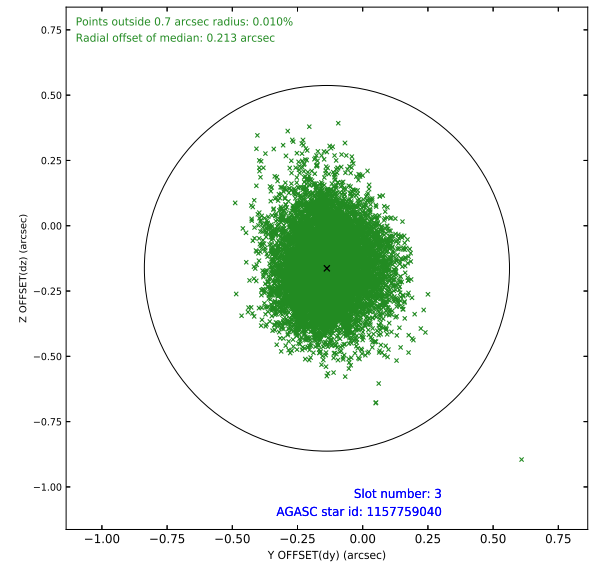
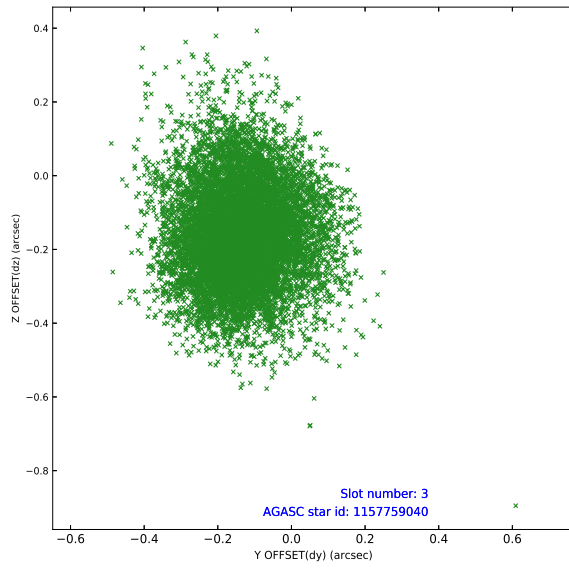


Slot Statistics

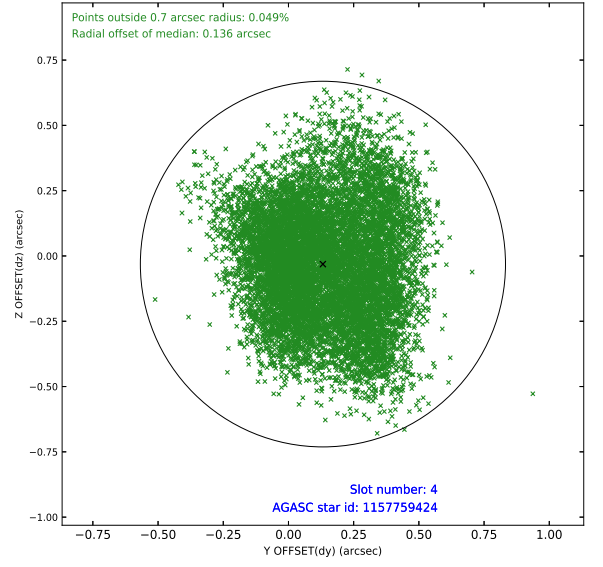
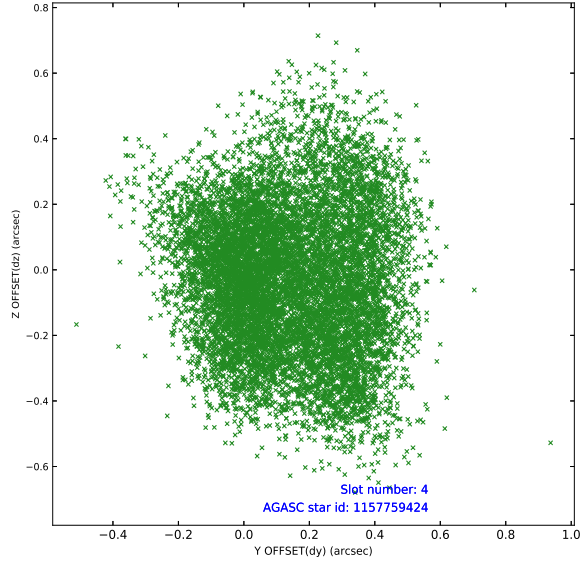
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.21	5146	1.000	0.232	-0.111	0.016	0.026	0.000000	0.000000	921.54	-917
1	FID		ACIS-I-5	7.19	5146	1.000	-0.314	0.212	0.007	0.012	0.000000	0.000000	-1826.91	980
2	FID		ACIS-I-6	7.18	5146	1.000	-0.009	-0.030	0.015	0.026	0.000000	0.000000	386.81	1624
3	GUIDE	used	1157759040	7.97	10287	1.000	-0.137	-0.163	0.179	0.292	359.883909	-52.843537	-2155.16	143
4	GUIDE	used	1157759424	9.41	10269	1.000	0.132	-0.031	0.307	0.464	359.117776	-52.573069	-838.90	-1274
5	GUIDE	used	1157759464	6.92	10289	1.000	-0.065	0.021	0.159	0.265	359.030343	-52.788081	-435.12	-587
6	GUIDE	used	1157760016	10.03	10265	1.000	0.014	-0.044	0.292	0.520	358.353341	-52.699790	889.81	-1305
7	GUIDE	used	1157760000	9.09	10275	1.000	0.044	0.241	0.221	0.356	359.759970	-52.508589	-2251.87	-1089

2.4 Star Slots

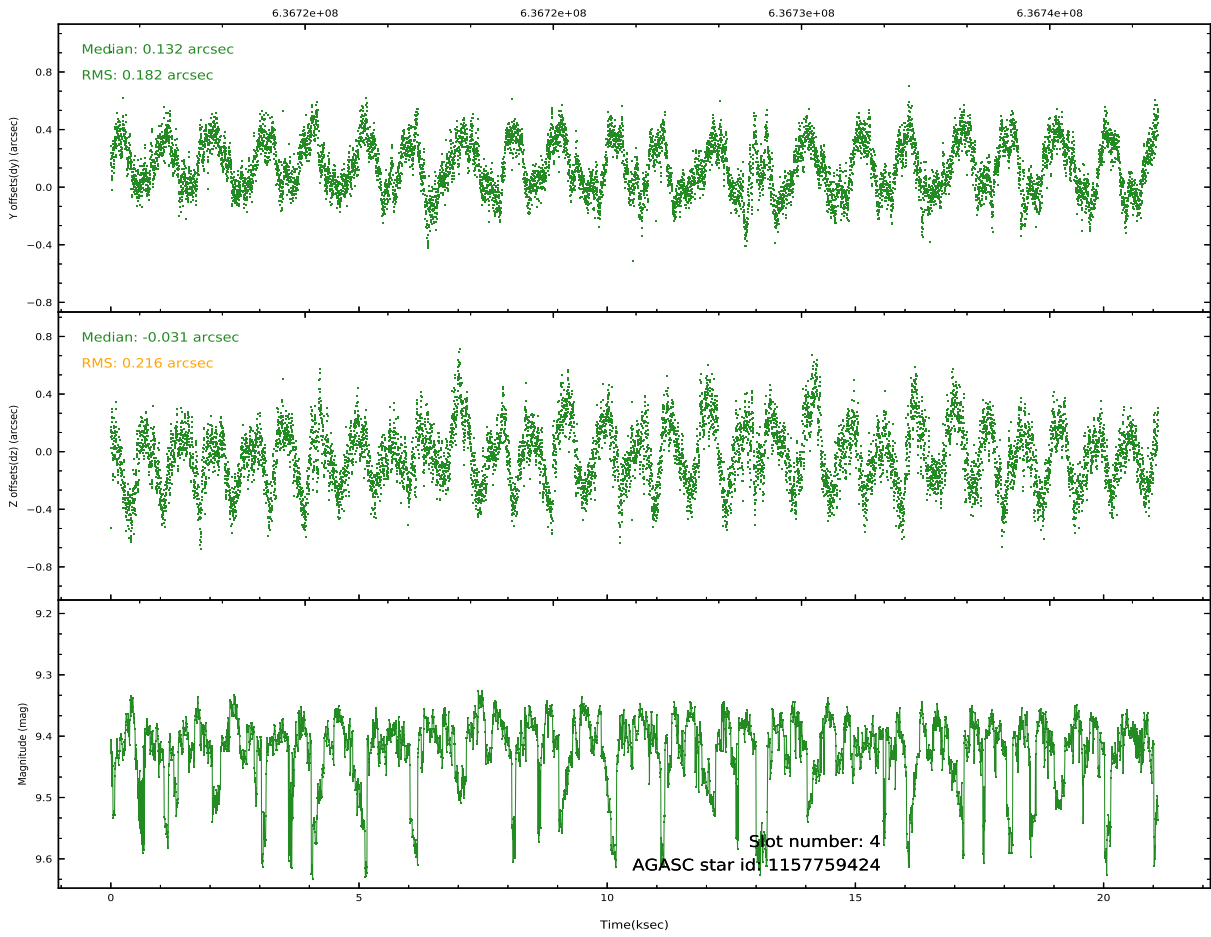
2.4.1 Slot 3



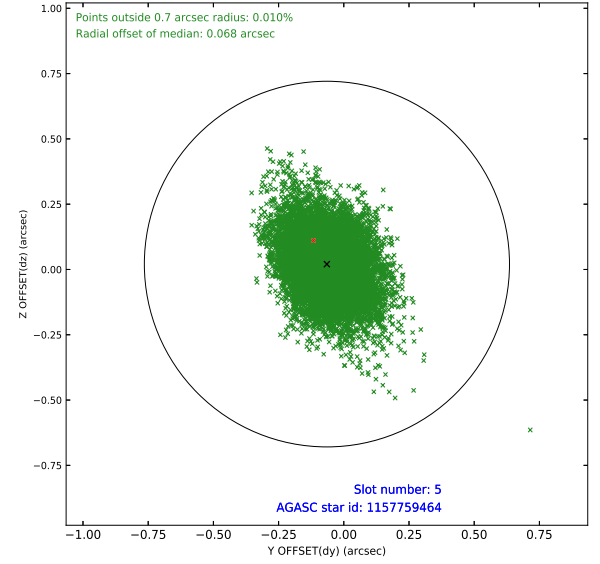
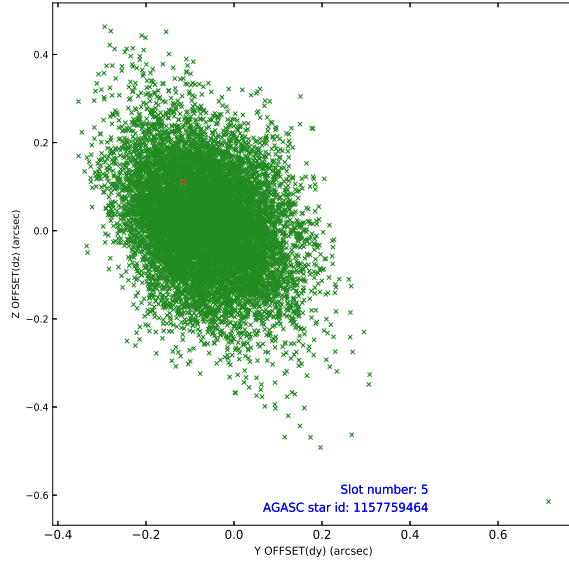
2.4.2 Slot 4



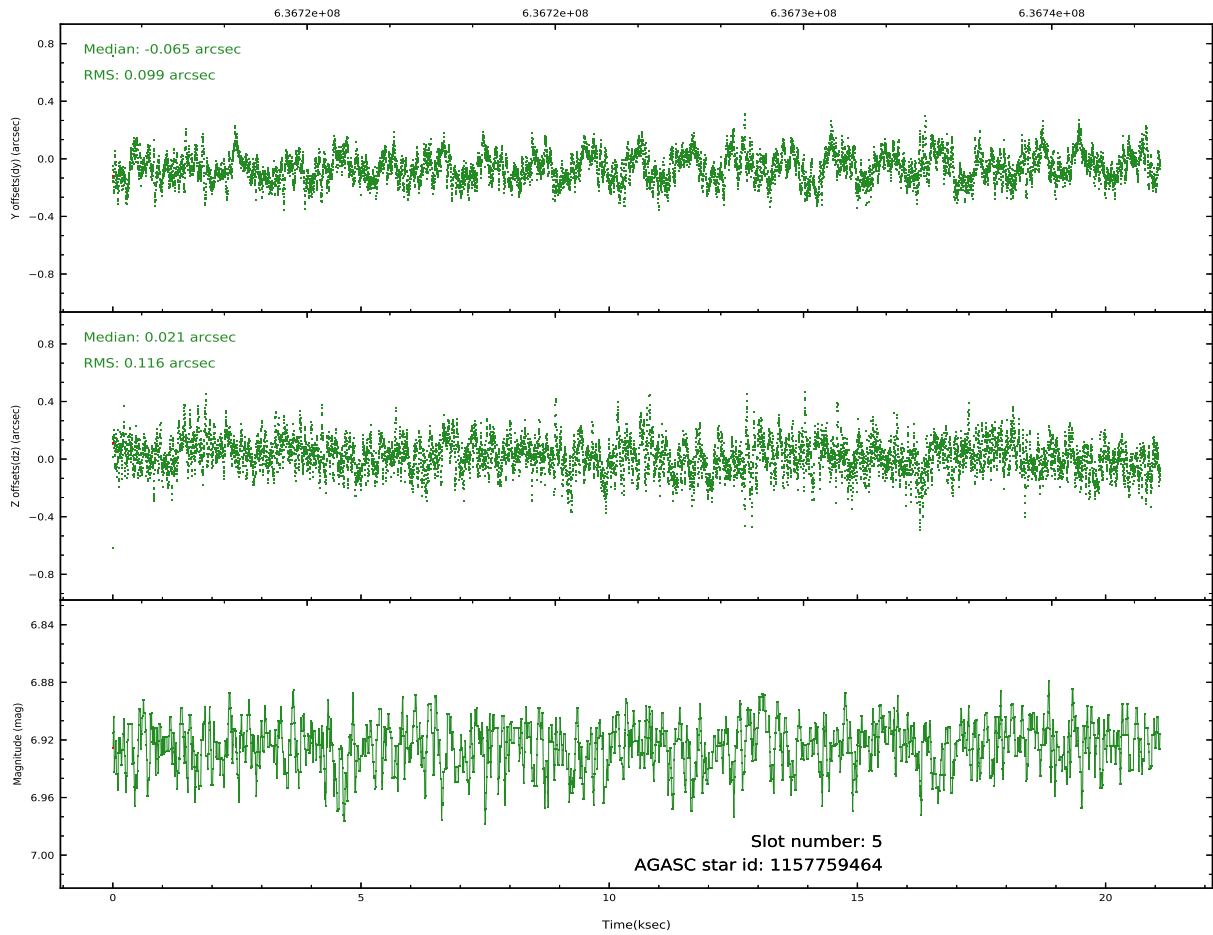
Time (s)



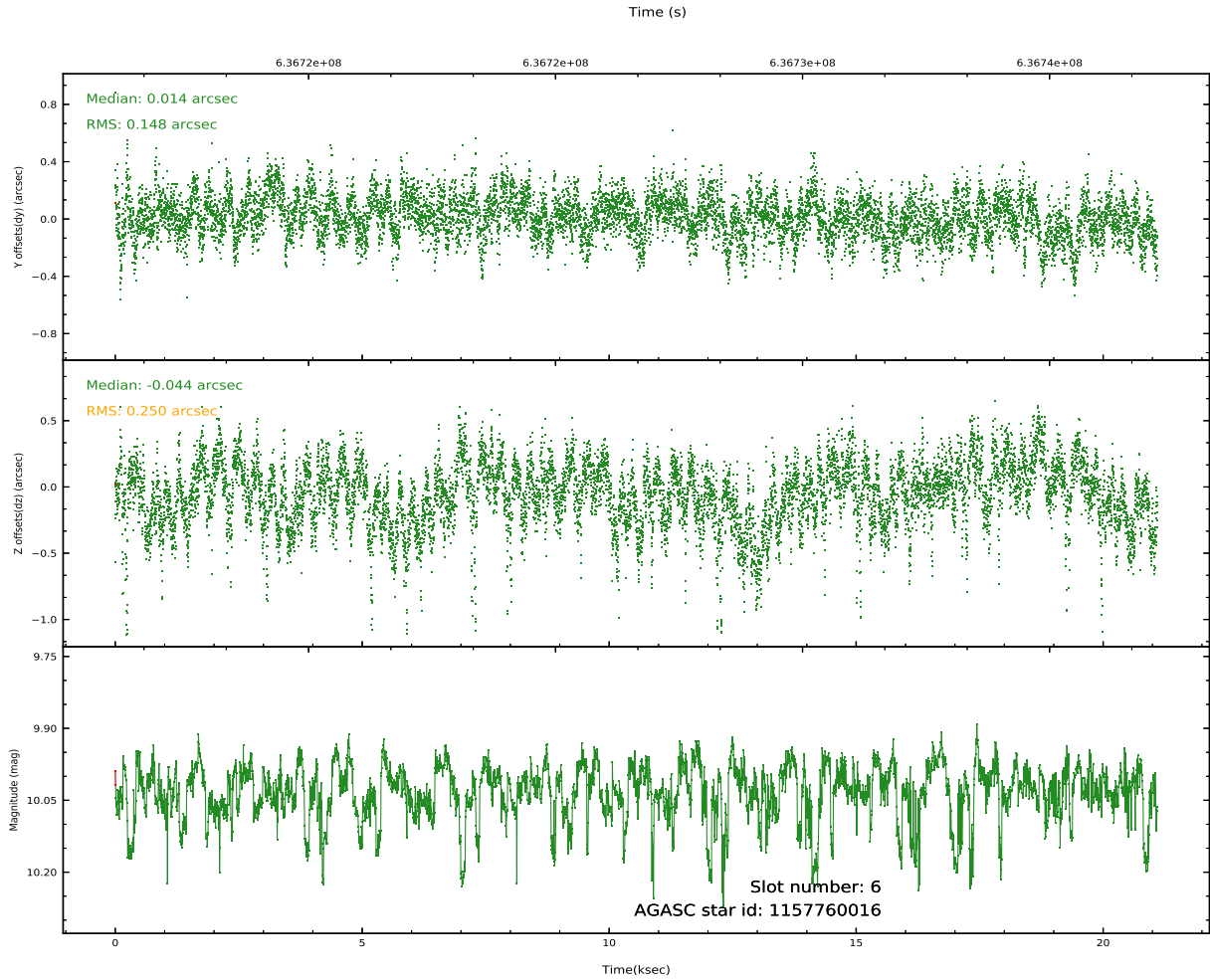
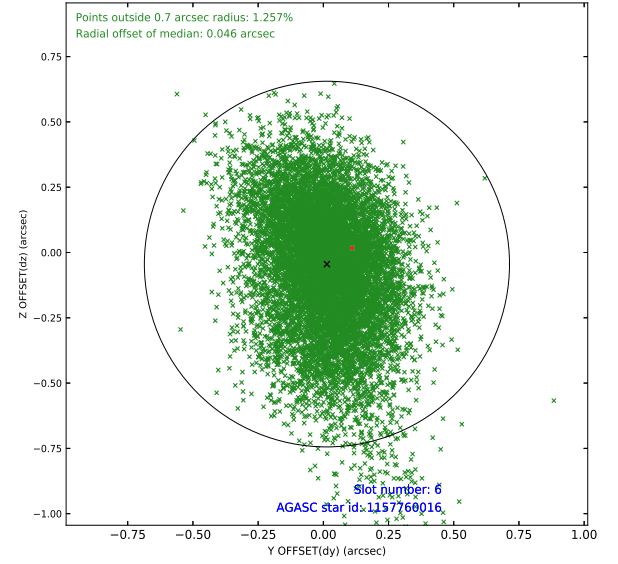
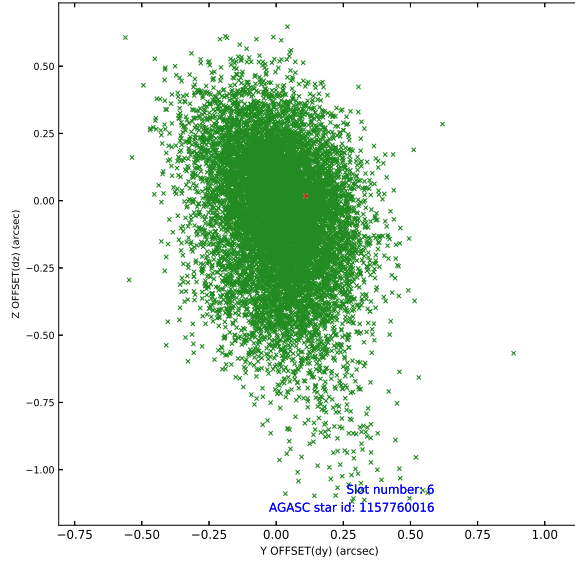
2.4.3 Slot 5



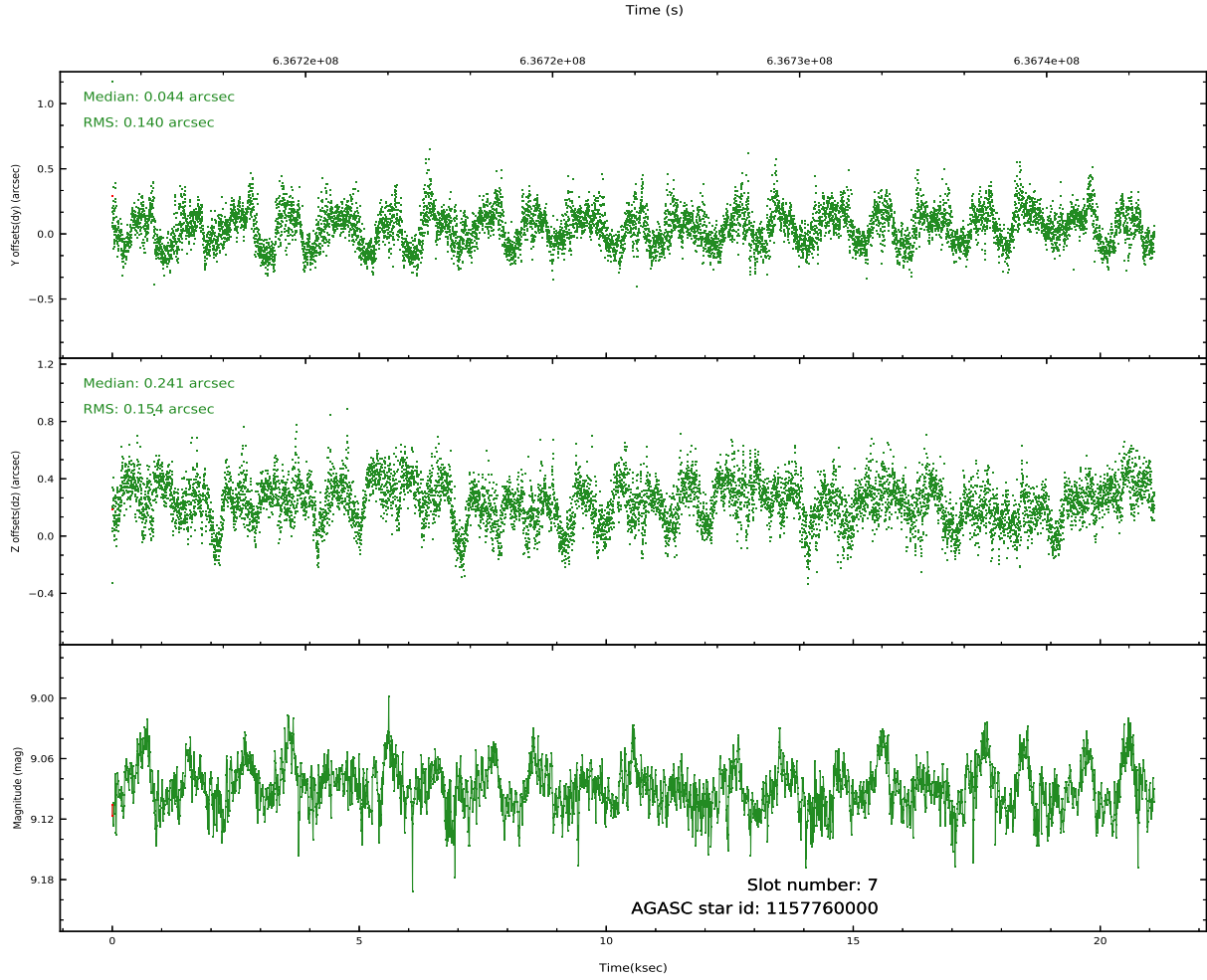
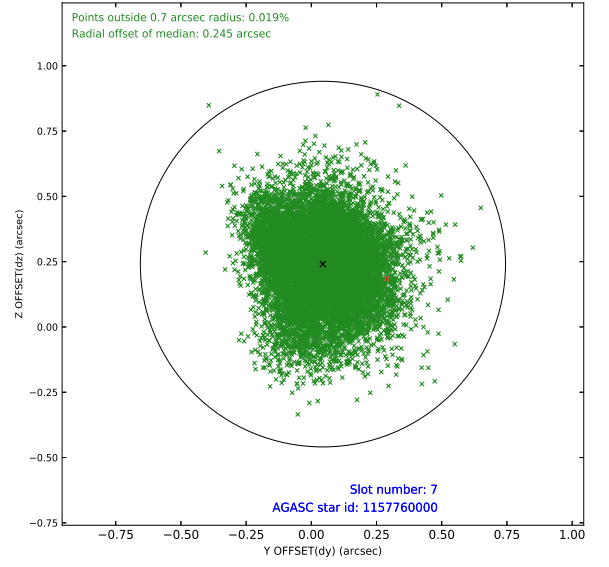
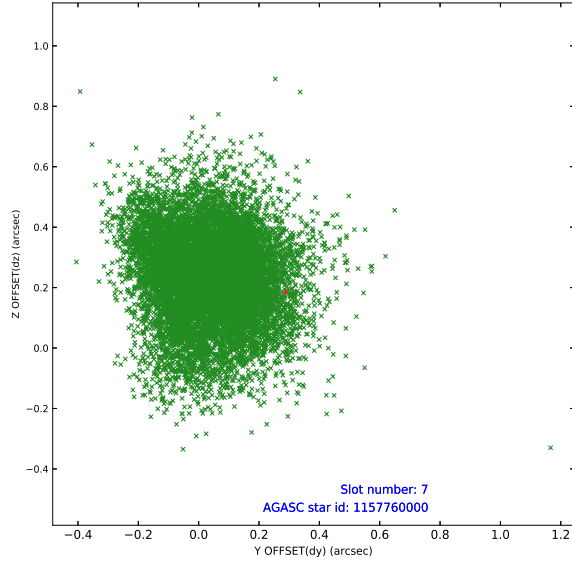
Time (s)



2.4.4 Slot 6

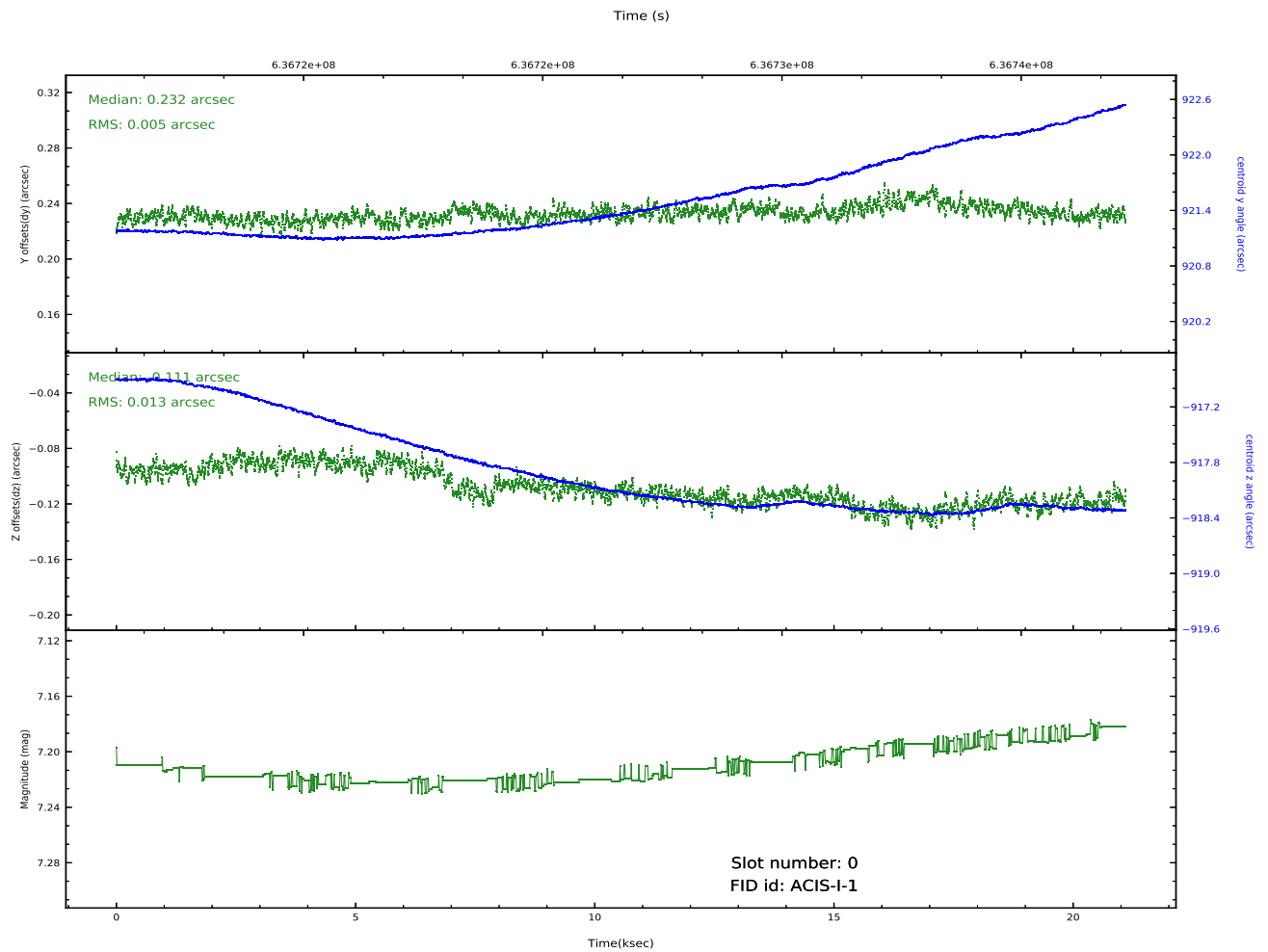
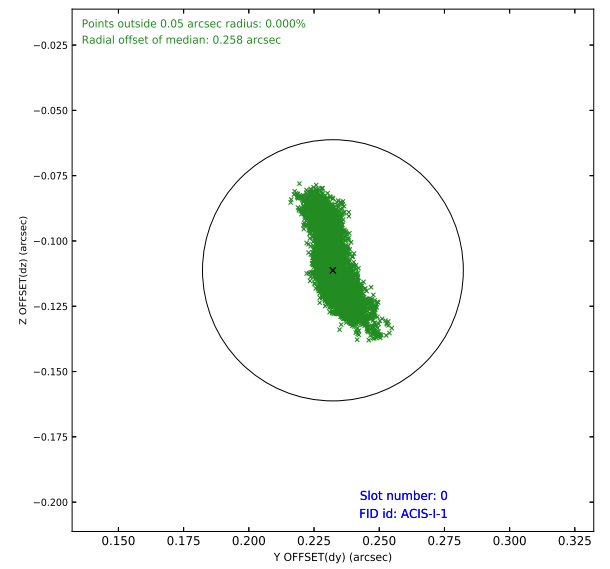
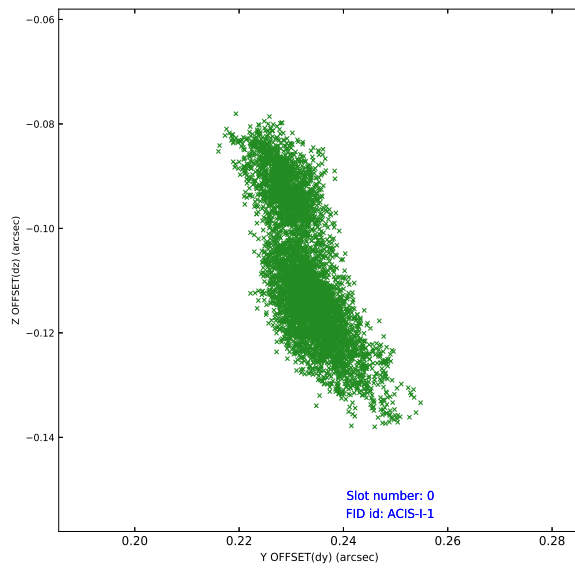


2.4.5 Slot 7

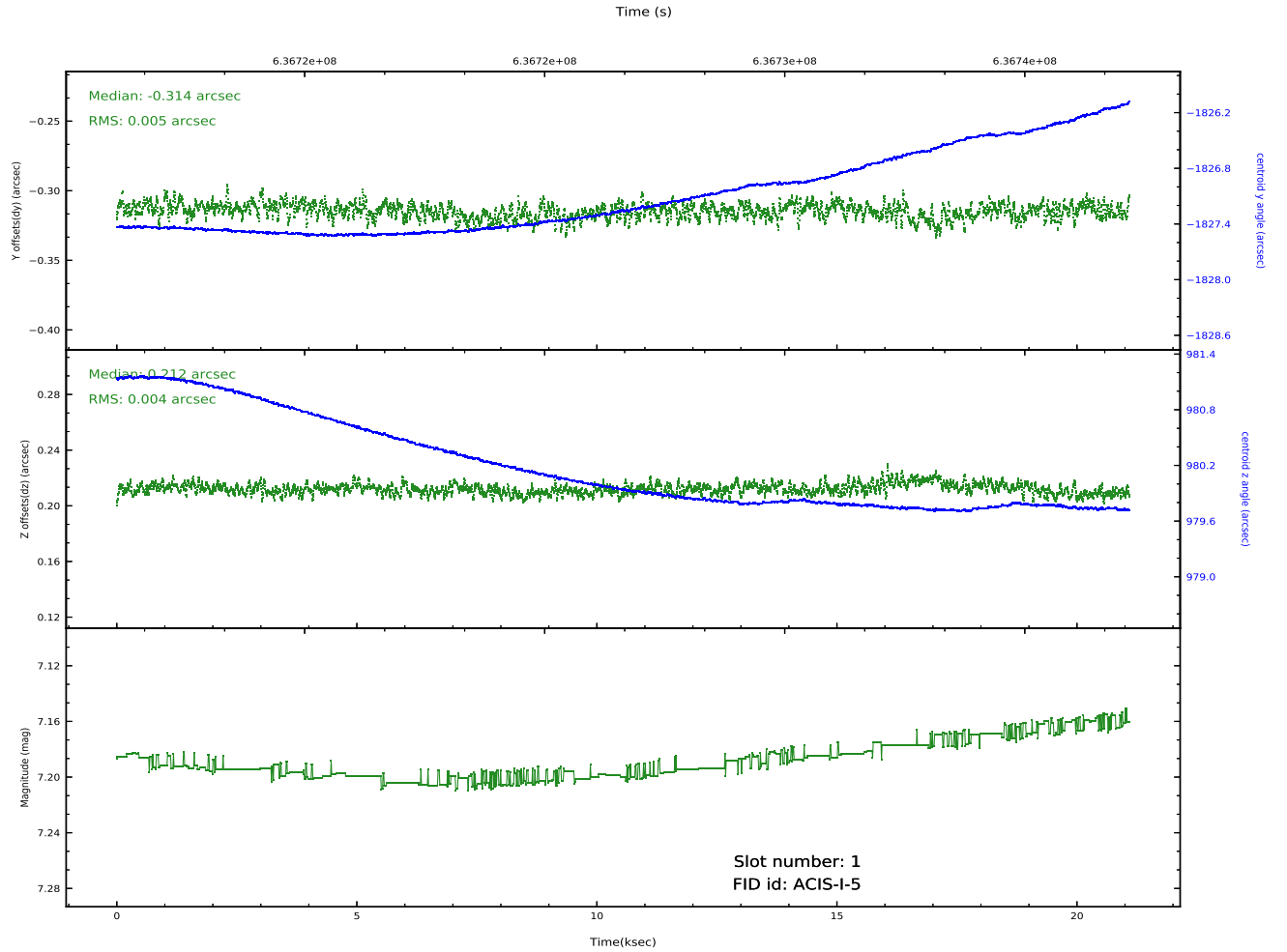
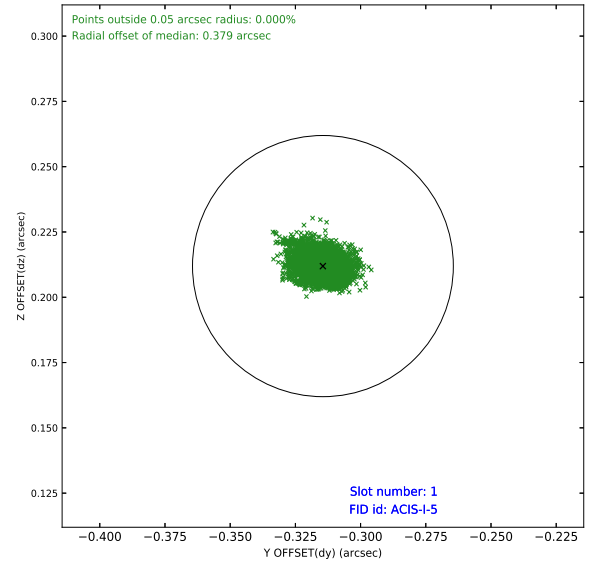
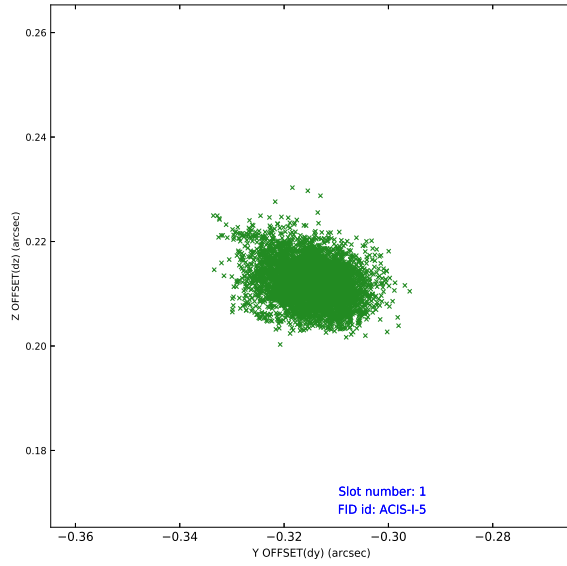


2.5 FID Slots

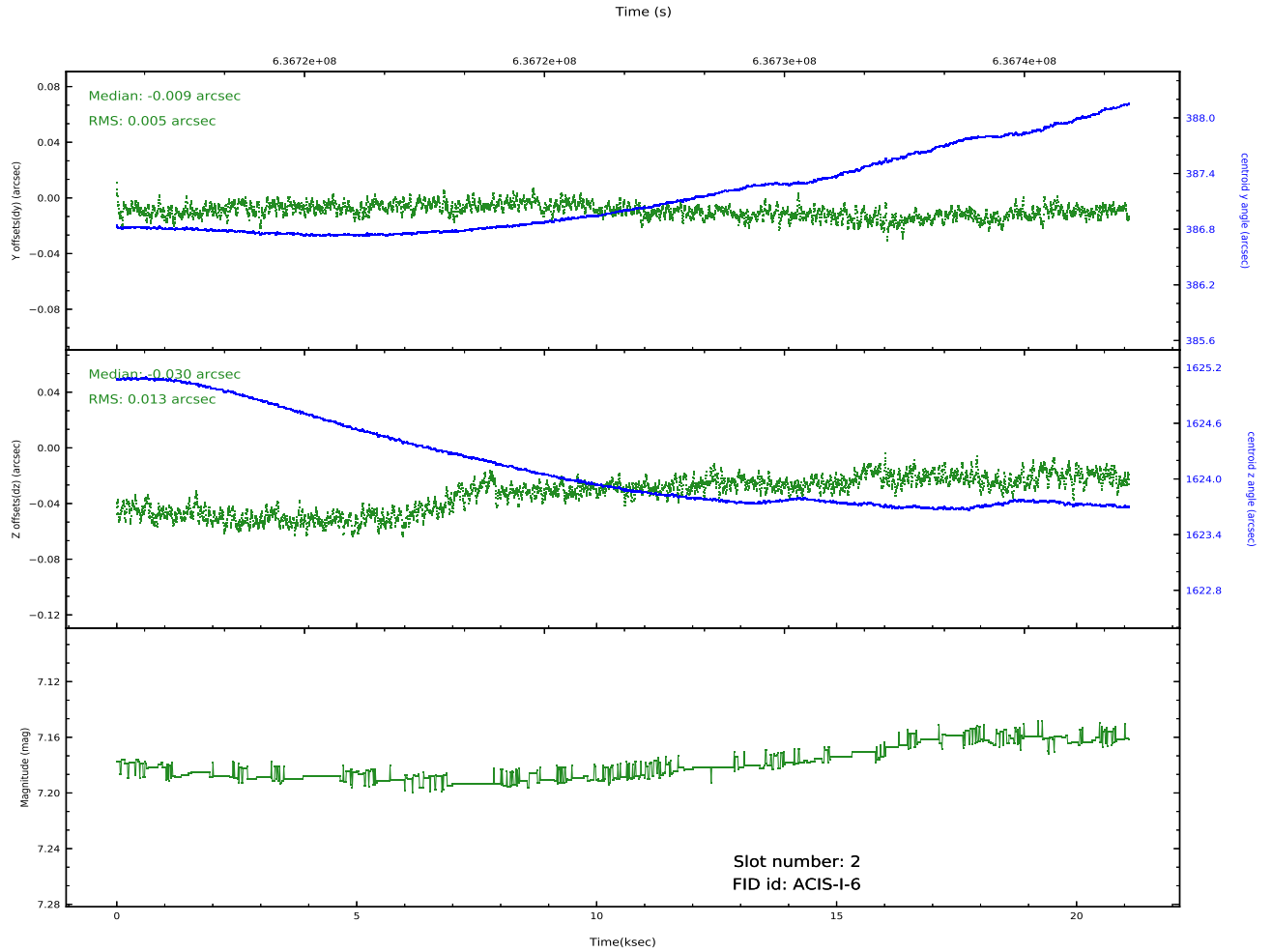
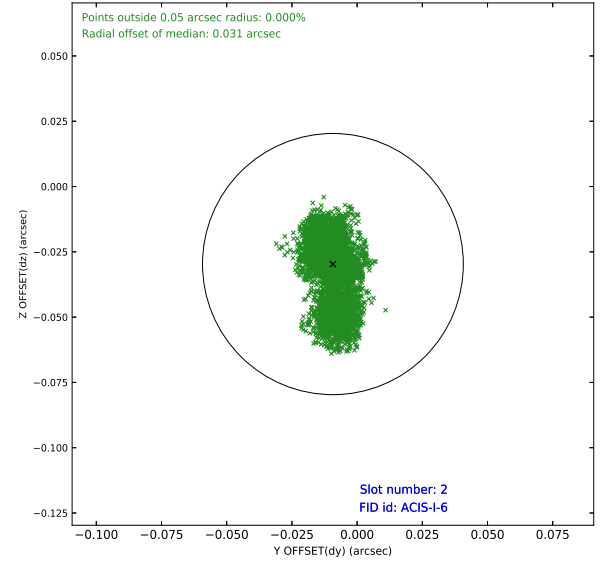
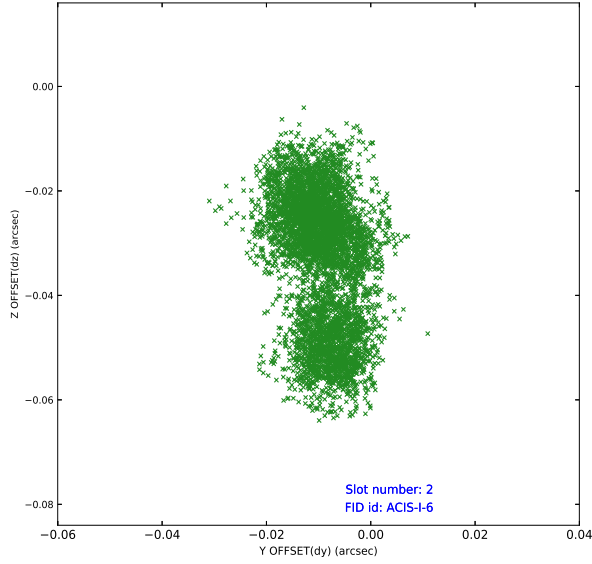
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.884618160129

A.2 Comments