

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4485 - L2 Version 4
Chandra X-Ray Center

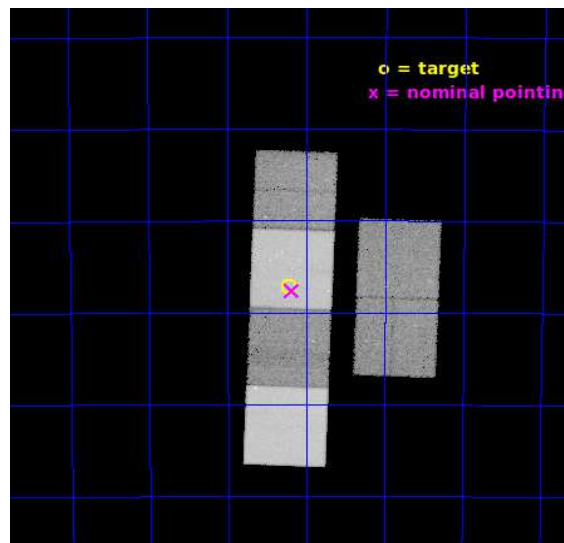
L2 Processing Date : Oct 5 2020

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1 Front

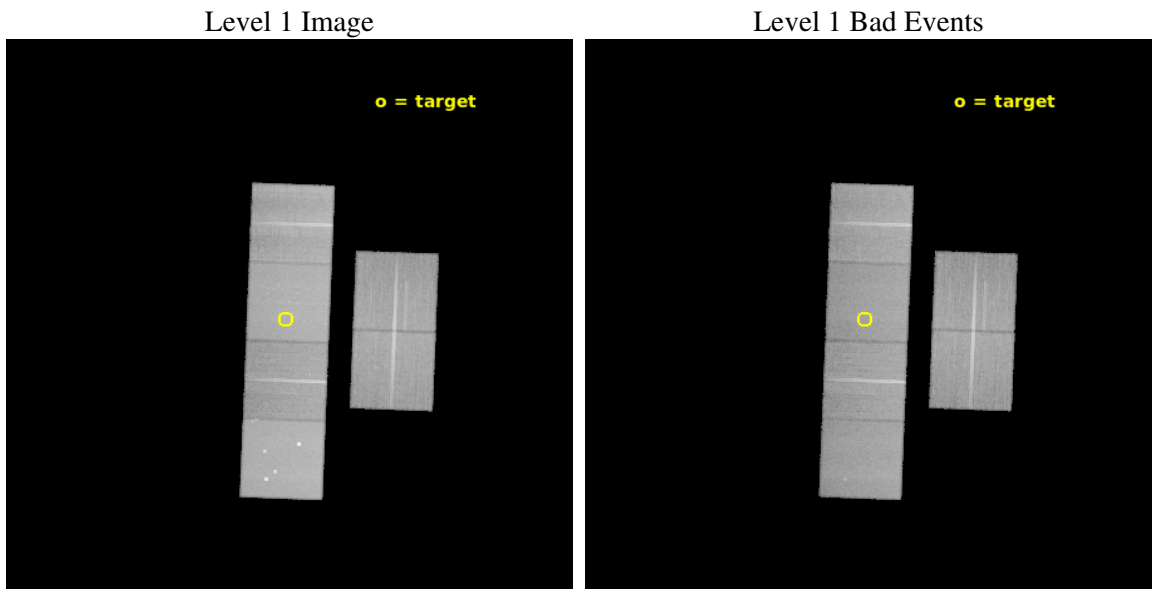
seq_num	200254	Sequence number
obs_id	4485	Observation id
title	A DEEP LOOK AT THE NEAREST BROWN DWARF: EPSILON INDI B, A T2.5 DWARF	
observer	Prof. Marc Audard	Principal investigator
object	EPSILON INDI B	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	331.054167	Observer's specified target RA [deg]
dec_targ	-56.78625	Observer's specified target Dec [deg]
ra_nom	331.04565991234	Nominal RA [deg]
dec_nom	-56.793917782168	Nominal Dec [deg]
roll_nom	272.15784374406	Nominal Roll [deg]
revision	4	Processing version of data
ontime	39644.799852312	Sum of GTIs [s]
livetime	39142.793525349	Livetime [s]
ontime2	39635.076971382	Sum of GTIs [s]
ontime3	39635.077051044	Sum of GTIs [s]
ontime5	39644.799852312	Sum of GTIs [s]
ontime6	39641.558882028	Sum of GTIs [s]
ontime7	39644.799852312	Sum of GTIs [s]
ontime8	39638.318031311	Sum of GTIs [s]
l2events	486494	Number of level 2 events



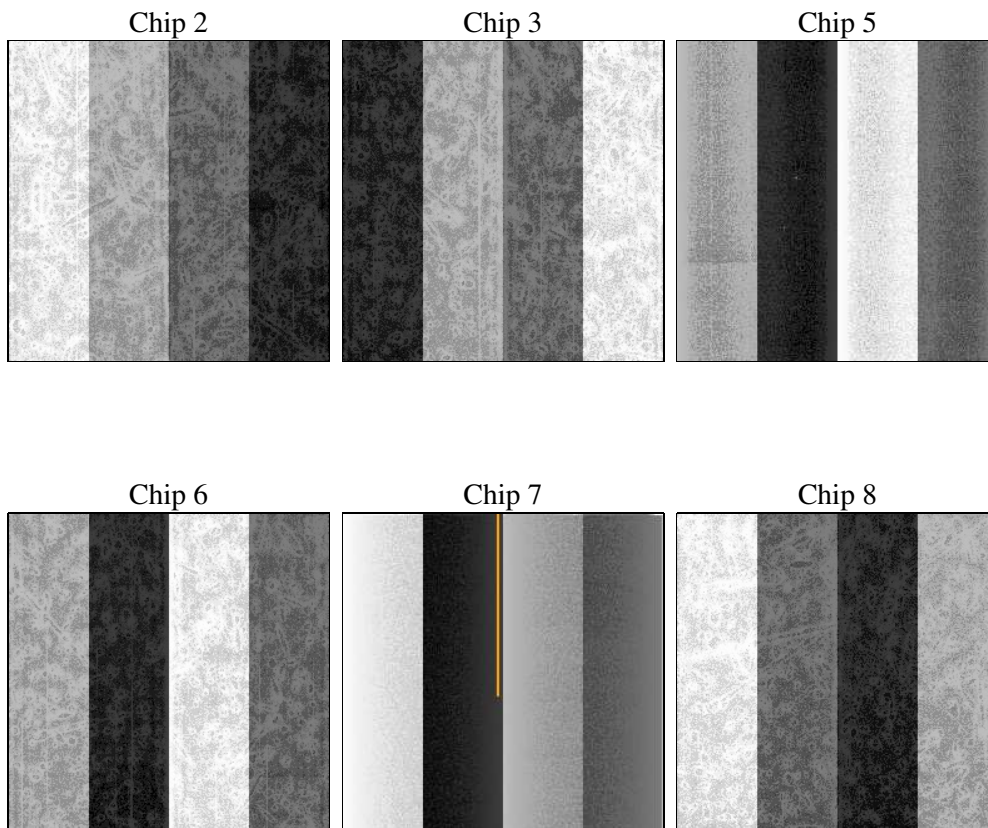
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	39500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	39644.799852312	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	39635.076971382	Sum of GTIs [s]
date	2020-10-05T11:52:38	Date and time of file creation	ontime3	39635.077051044	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	39644.799852312	Sum of GTIs [s]
			ontime6	39641.558882028	Sum of GTIs [s]
			ontime7	39644.799852312	Sum of GTIs [s]
			ontime8	39638.318031311	Sum of GTIs [s]
			l1events	2149095	Number of level 1 events

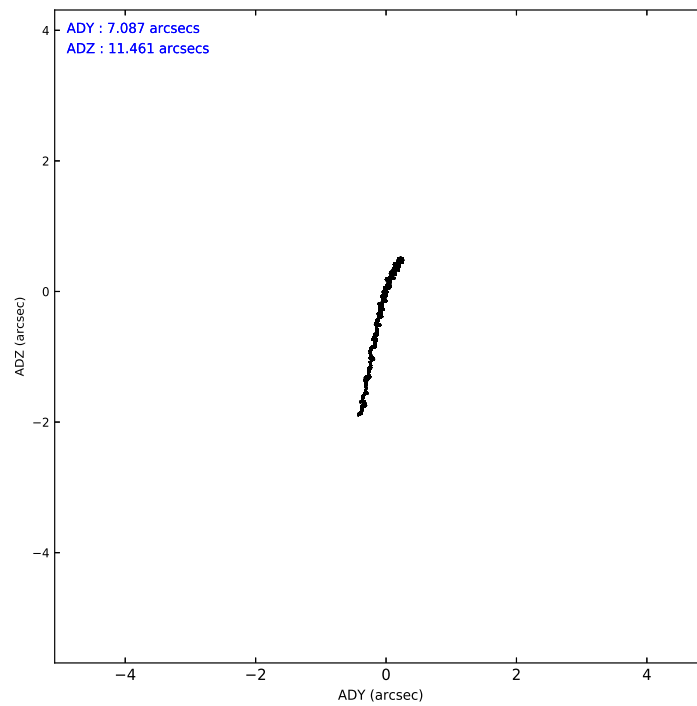
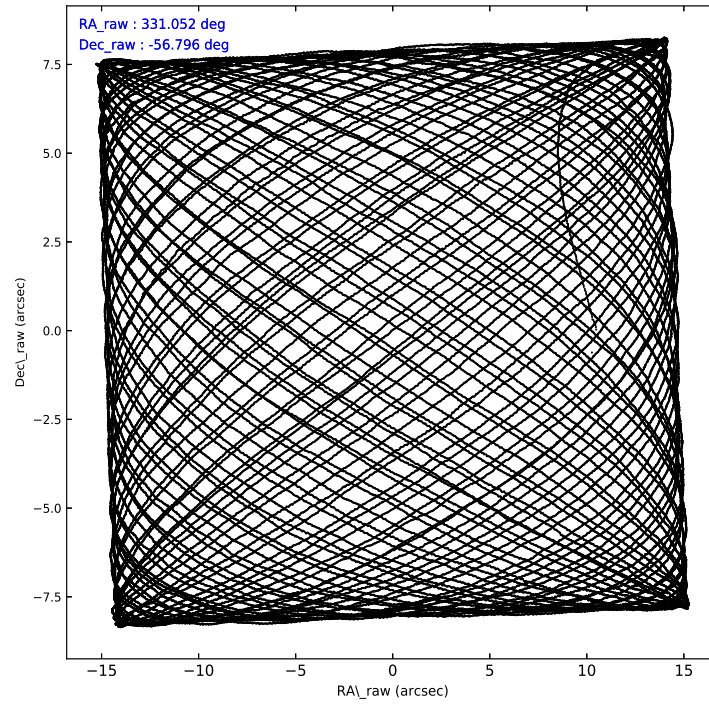
2.1.4 Events

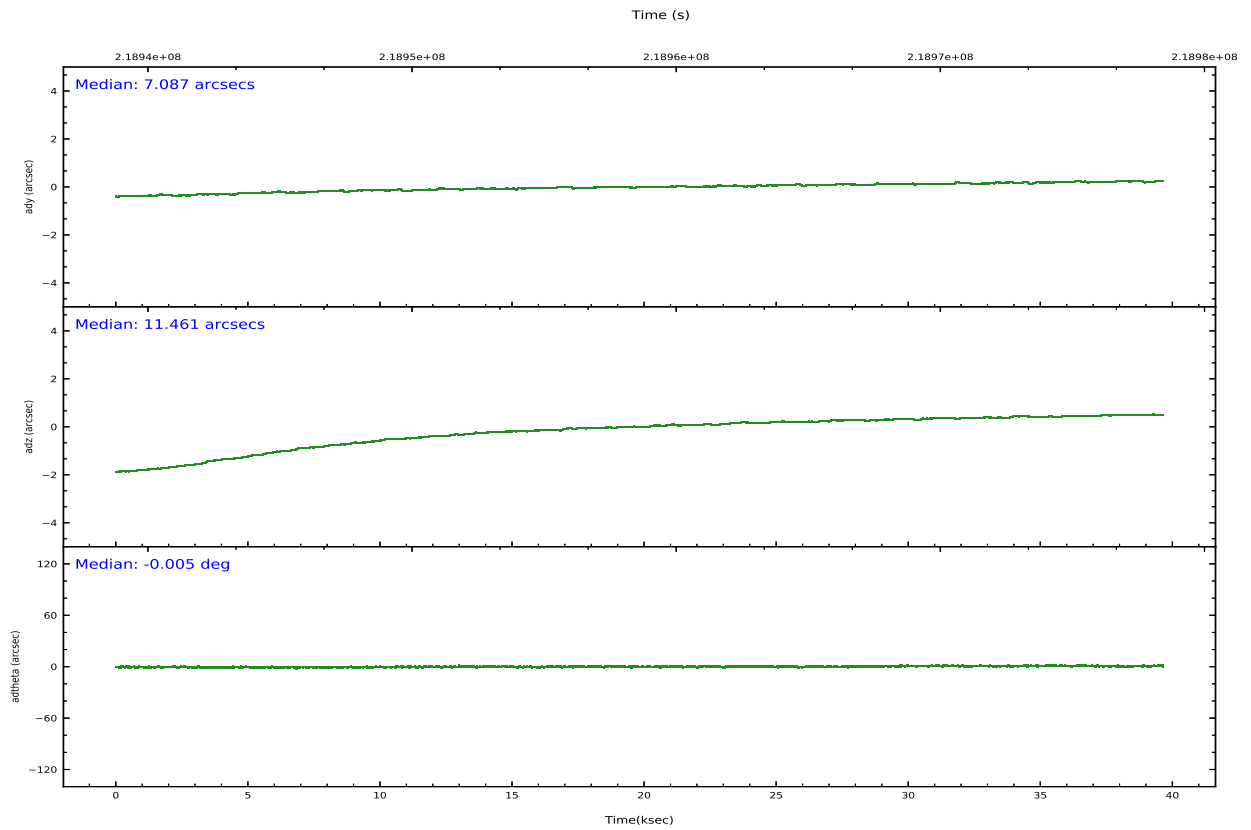
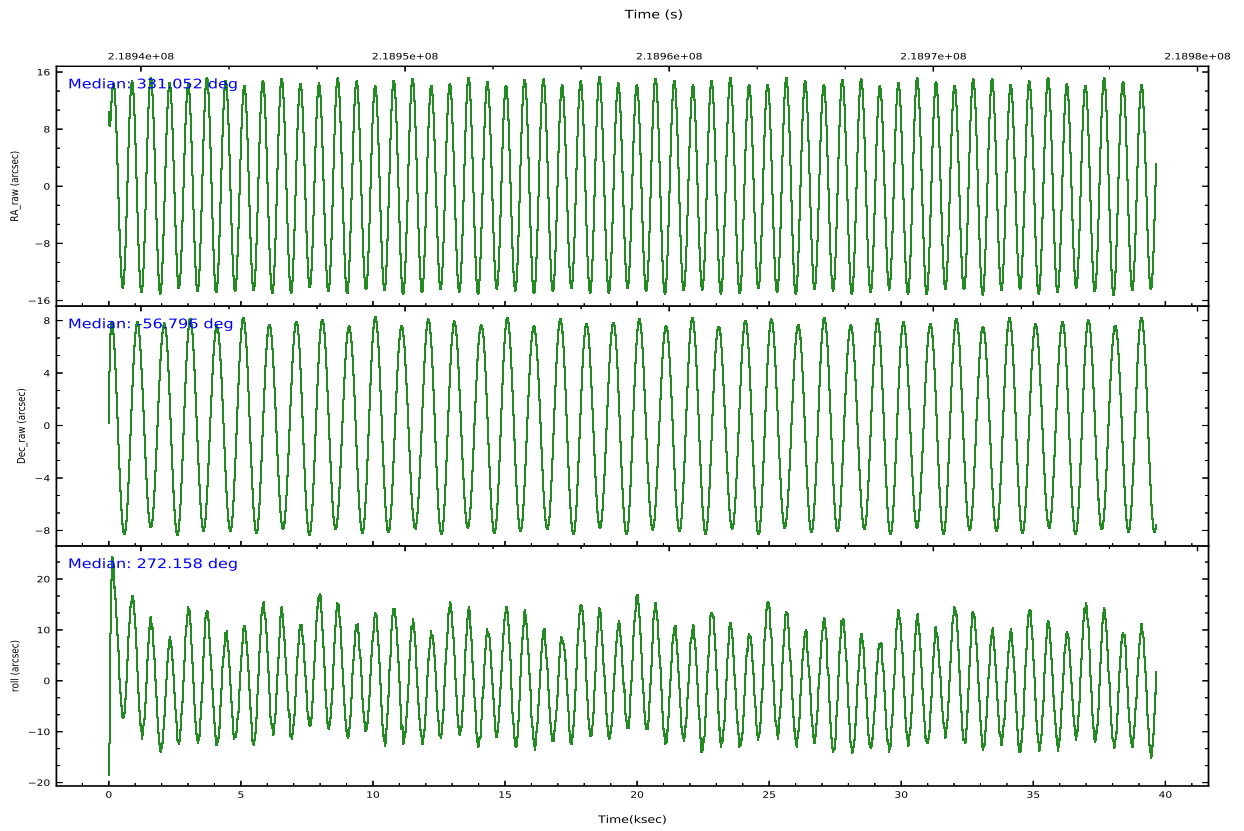
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	309996	291821	457001	301685	407248	381344	grade 0 events	16440	15214	29327	14262	15854	28213
rejected events	273489	256736	241749	265942	237624	295451		5%	5%	6%	4%	3%	7%
rejected %	88%	87%	52%	88%	58%	77%	grade 1 events	195	199	1005	145	400	247
								0%	0%	0%	0%	0%	0%
							grade 2 events	7451	6875	61803	7704	33900	18179
								2%	2%	13%	2%	8%	4%
							grade 3 events	3365	3359	8529	3437	14960	9552
								1%	1%	1%	1%	3%	2%
							grade 4 events	3415	3420	8208	3419	14866	8905
								1%	1%	1%	1%	3%	2%
							grade 5 events	11890	13116	33421	13911	39152	18403
								3%	4%	7%	4%	9%	4%
							grade 6 events	5948	6316	108105	7049	90619	21309
								1%	2%	23%	2%	22%	5%
							grade 7 events	261292	243322	206603	251758	197497	276536
								84%	83%	45%	83%	48%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	331.024726	331.04565991234	Subarray requested	NONE	NONE
[deg] Pointing Dec	-56.772968	-56.793917782168	Alternating exposures requested	N	N
[deg] Pointing Roll	271.975376	272.15784374406	[s] Primary exposure time	0.000000	3.2
[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)	218938934.184000	218937817.01003			
Observation start date	2004-12-09T00:21:10	2004-12-09T00:03:37			
[s] Observation end time (MET)	218978434.184000	218979291.58689			
Observation end date	2004-12-09T11:19:30	2004-12-09T11:34:51			
Read mode	TIMED	TIMED			

2.3 Aspect



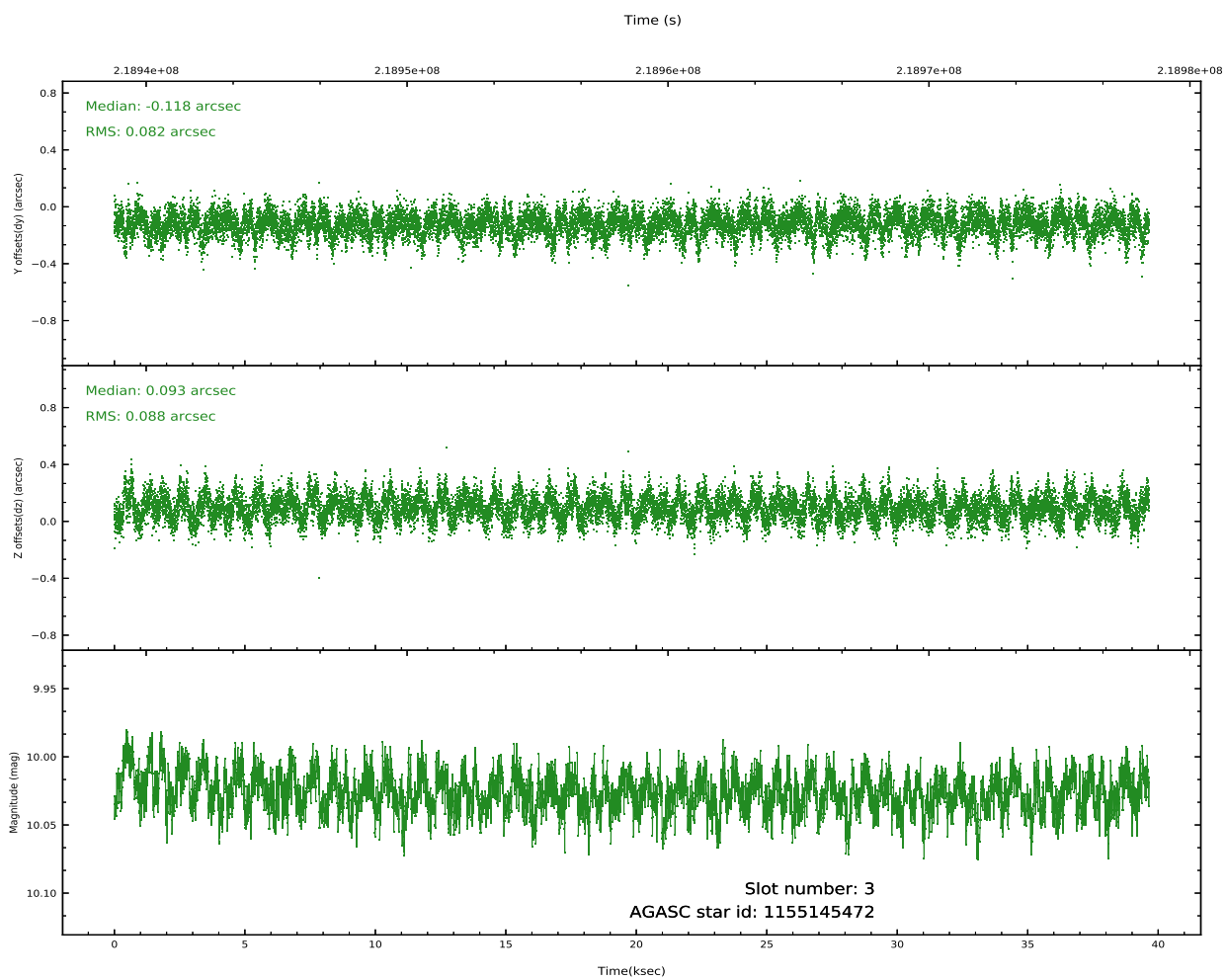
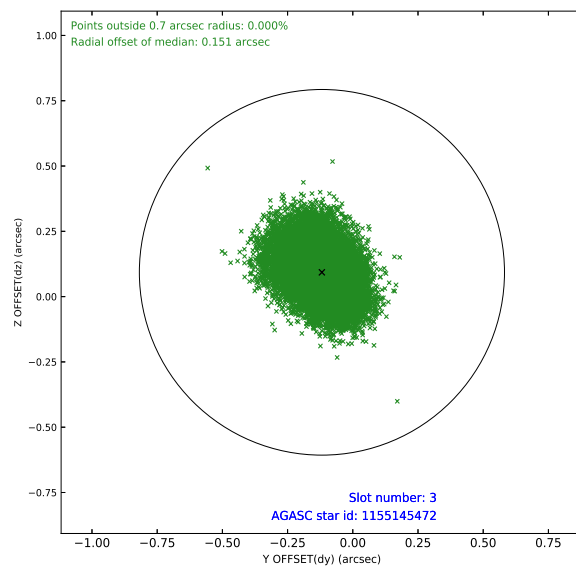
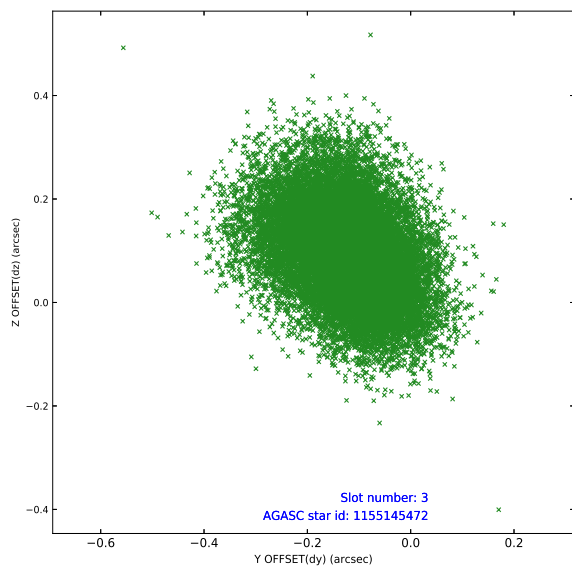


Slot Statistics

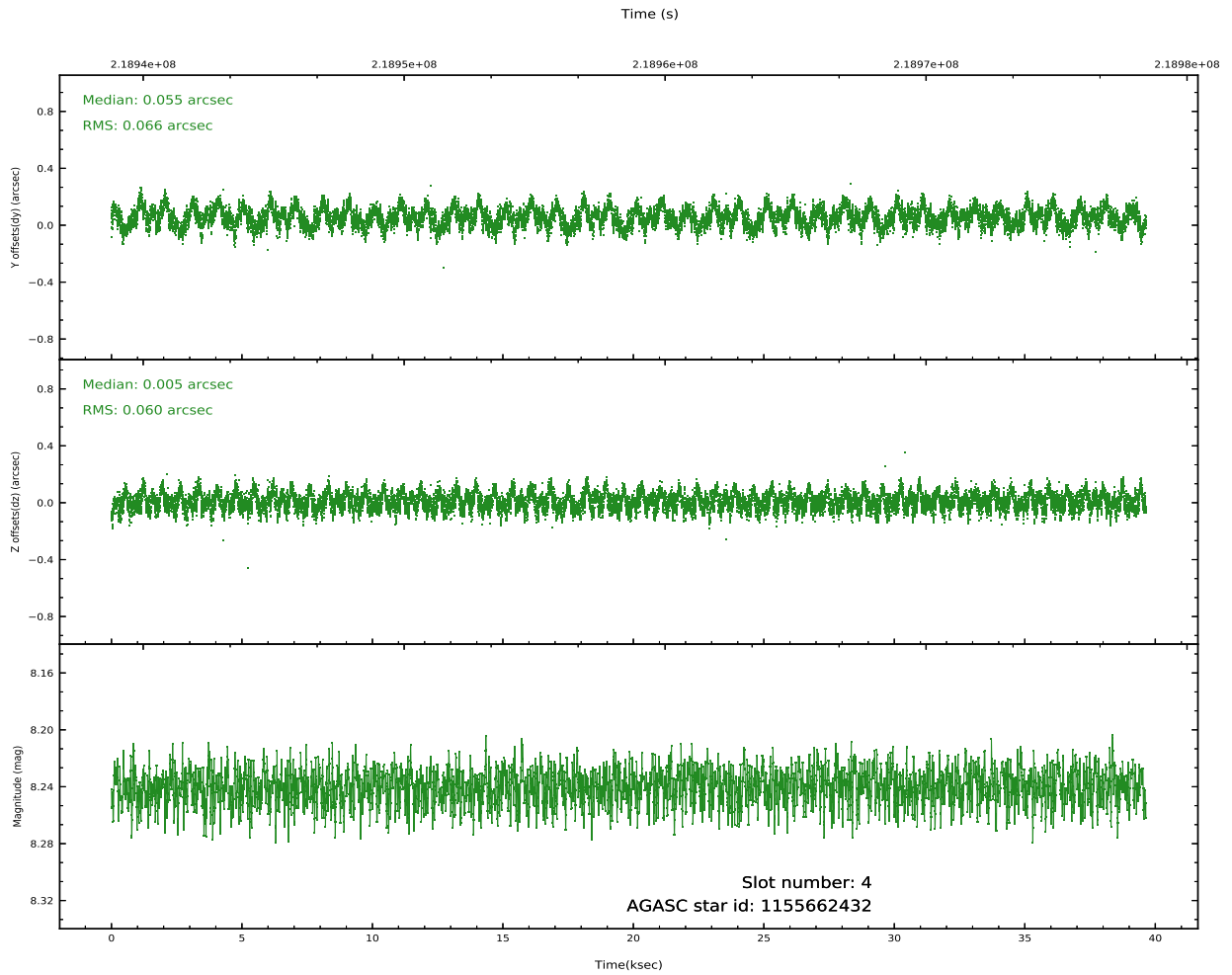
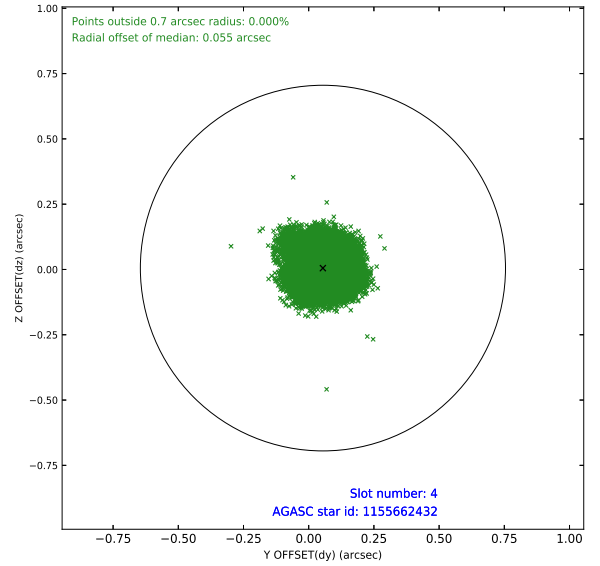
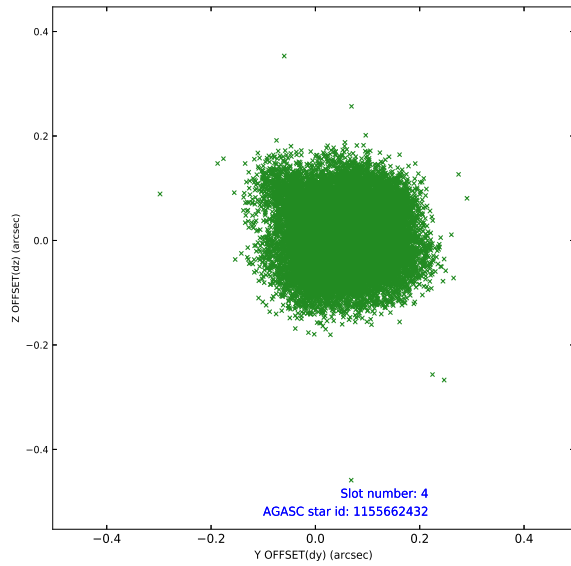
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	9669	1.000	-0.094	-0.082	0.016	0.029	0.000000	0.000000	-759.87	-1732
1	FID		ACIS-S-4	7.20	9671	1.000	0.094	0.038	0.011	0.025	0.000000	0.000000	2153.55	176
2	FID		ACIS-S-6	7.34	9671	1.000	-0.026	0.050	0.012	0.022	0.000000	0.000000	402.15	813
3	GUIDE	used	1155145472	10.03	19330	1.000	-0.118	0.093	0.128	0.211	330.914509	-56.156792	-2224.25	-144
4	GUIDE	used	1155662432	8.24	19336	1.000	0.055	0.005	0.097	0.149	331.914502	-56.851094	352.96	1740
5	GUIDE	used	1155662832	9.69	19317	1.000	0.252	-0.070	0.156	0.241	330.711099	-57.263815	1746.80	-670
6	GUIDE	used	1155668552	8.01	19334	1.000	-0.062	-0.197	0.072	0.114	331.144851	-56.299715	-1693.95	297
7	GUIDE	used	1155145264	9.72	19326	1.000	-0.123	0.156	0.130	0.211	332.166474	-56.106650	-2299.35	2373

2.4 Star Slots

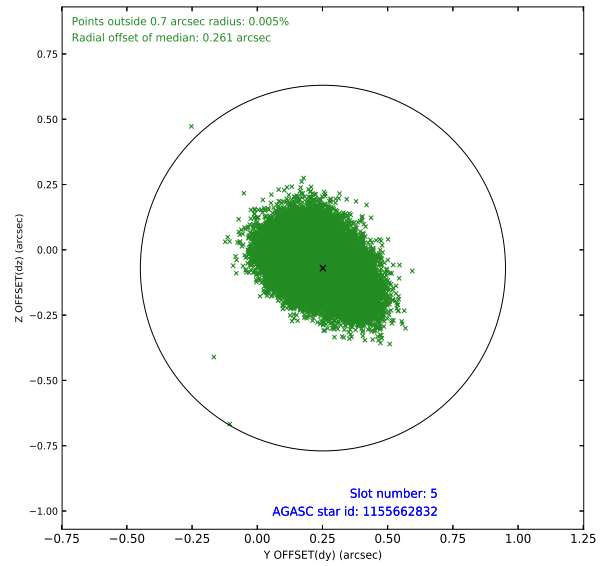
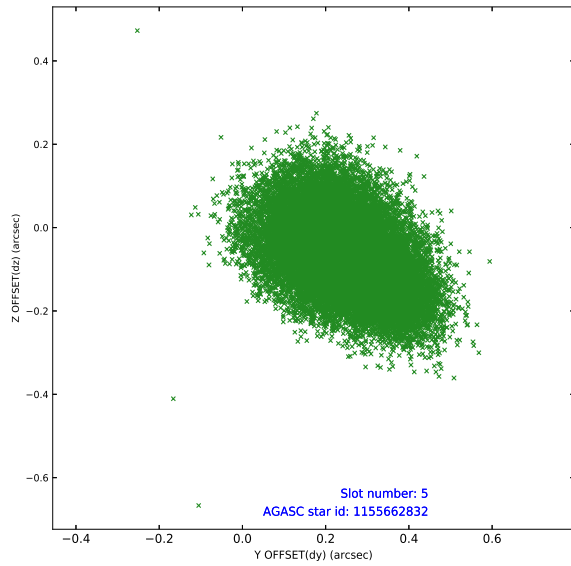
2.4.1 Slot 3



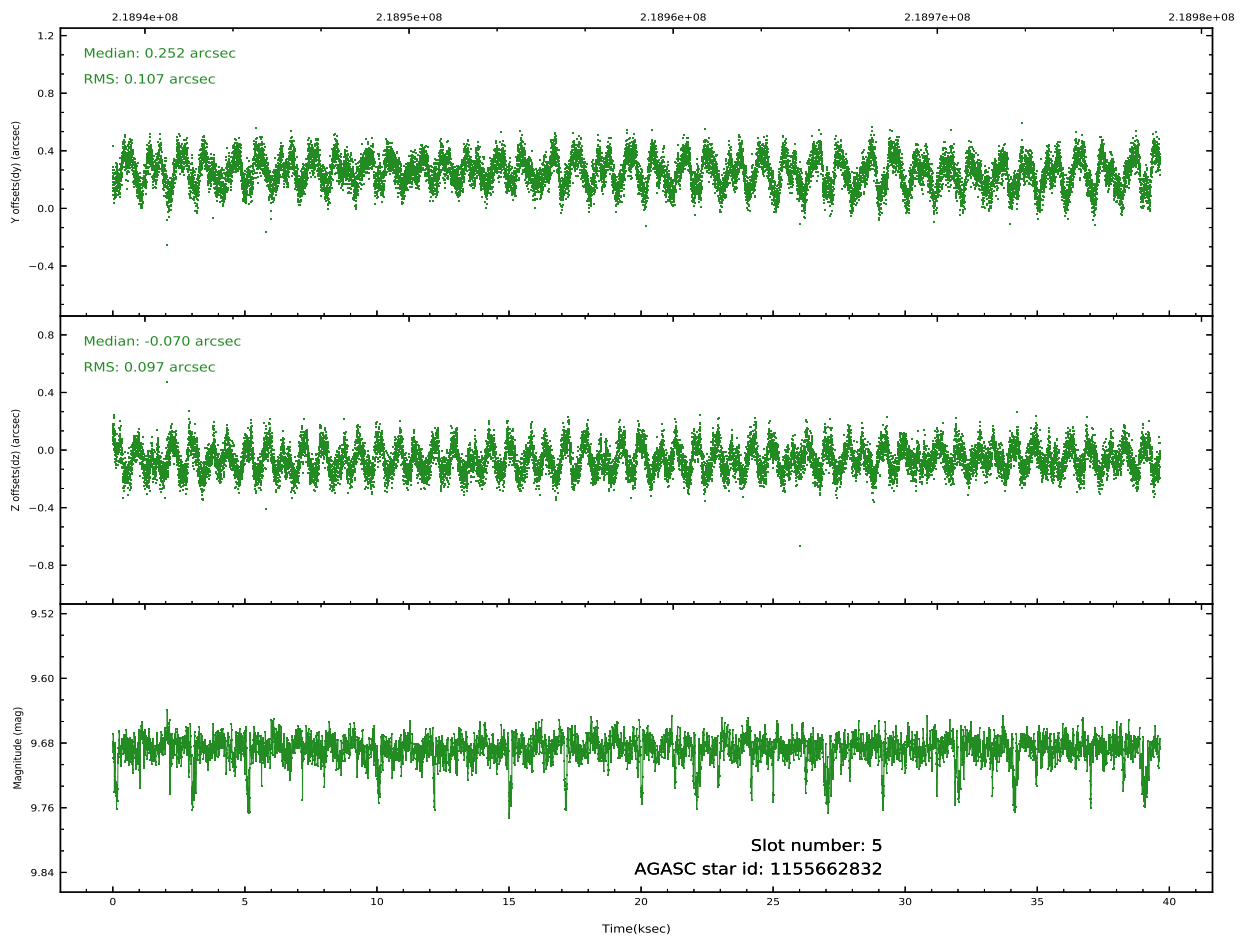
2.4.2 Slot 4



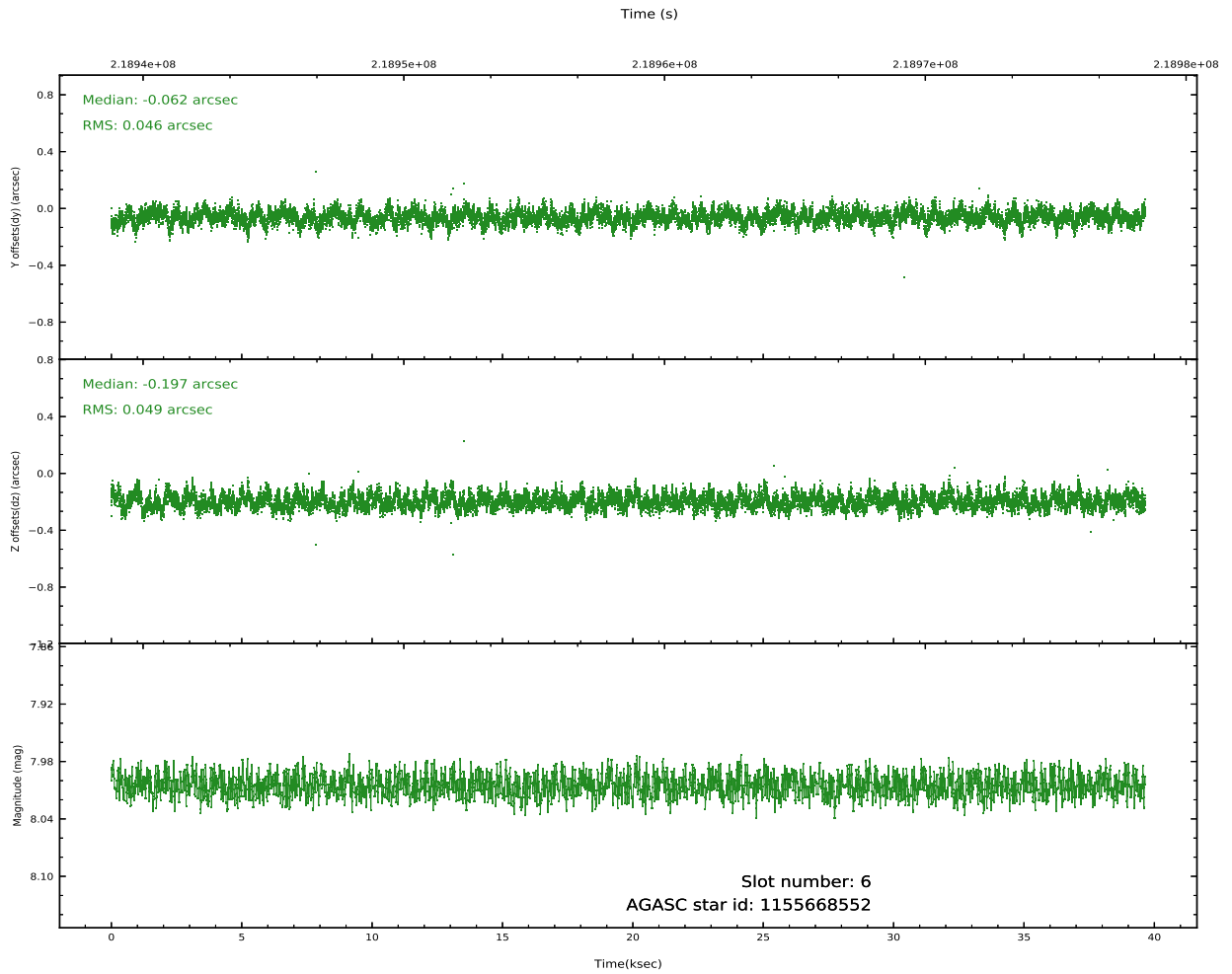
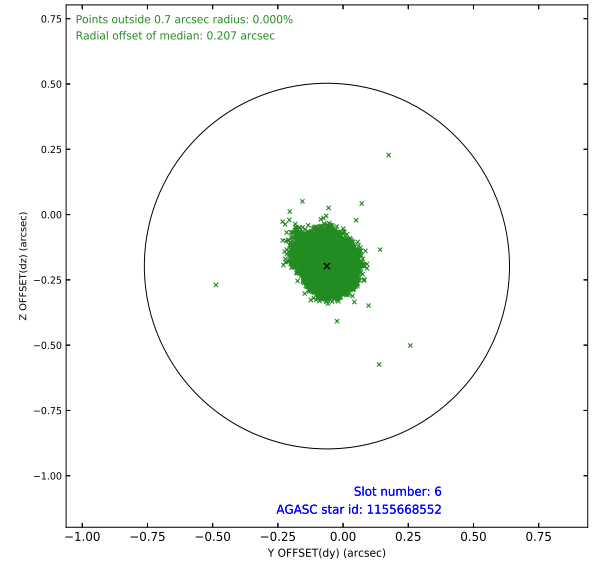
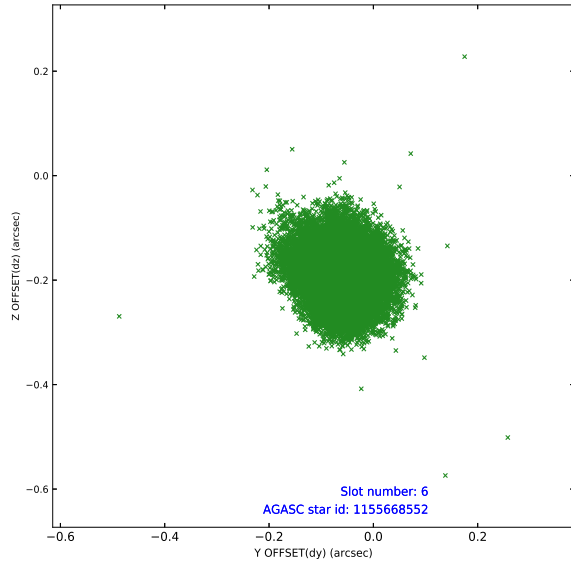
2.4.3 Slot 5



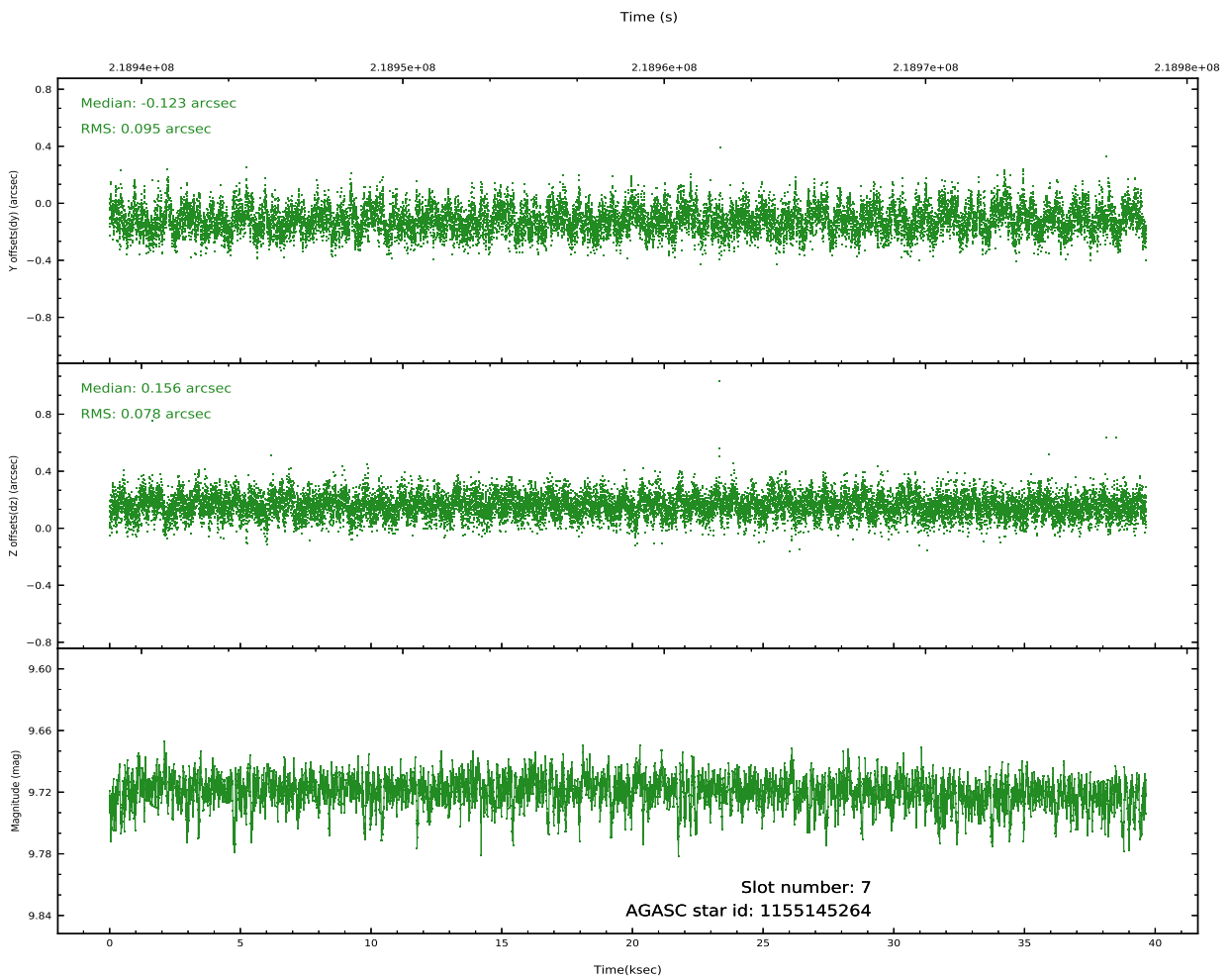
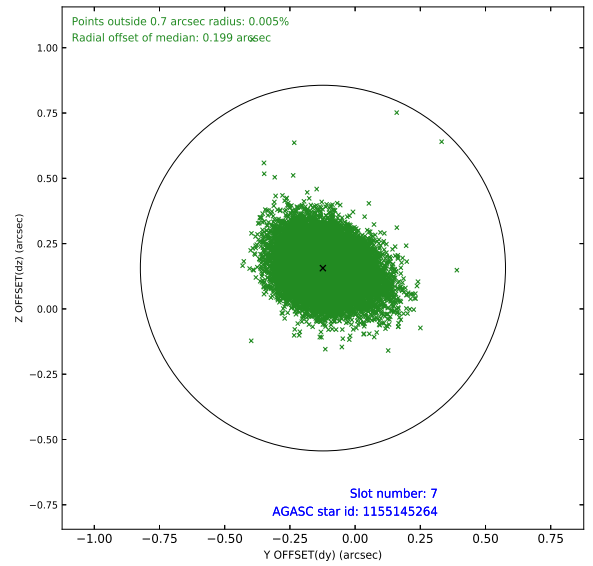
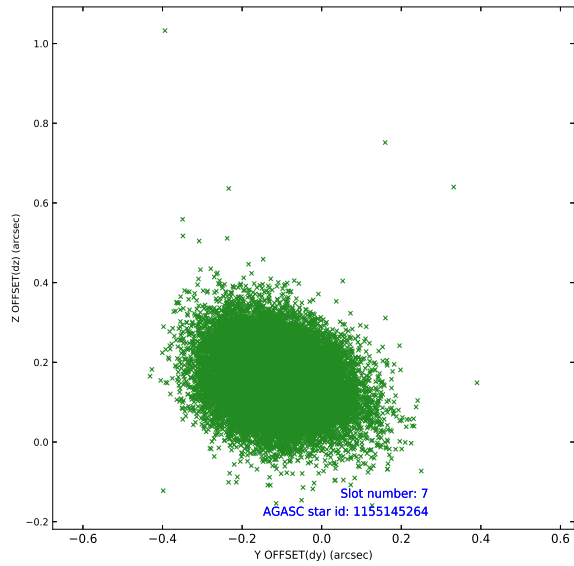
Time (s)



2.4.4 Slot 6

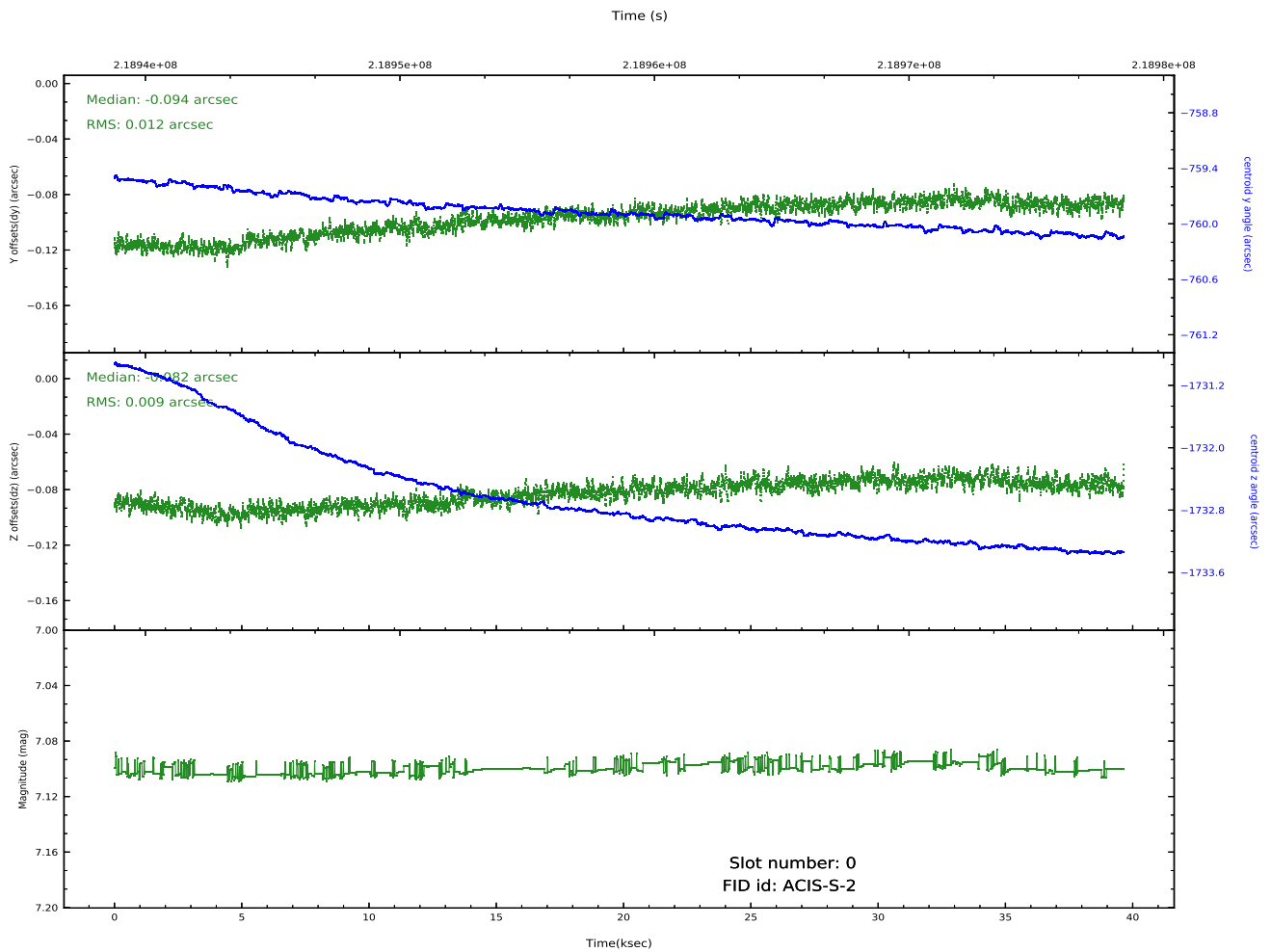
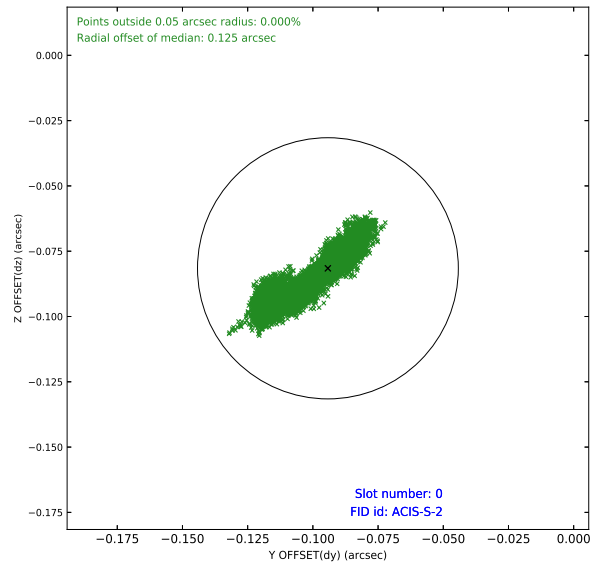
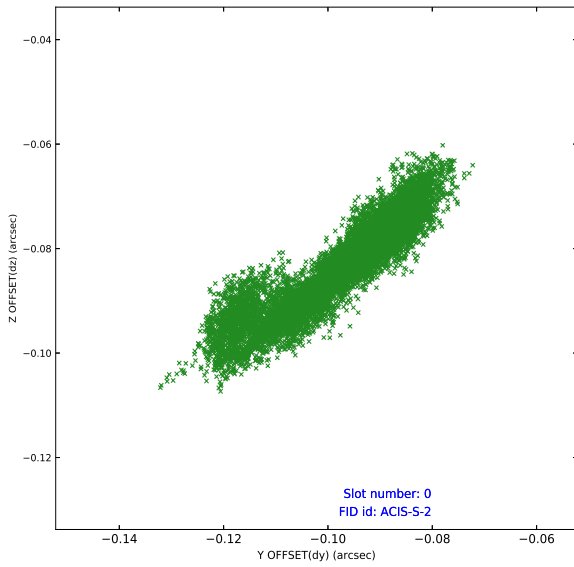


2.4.5 Slot 7

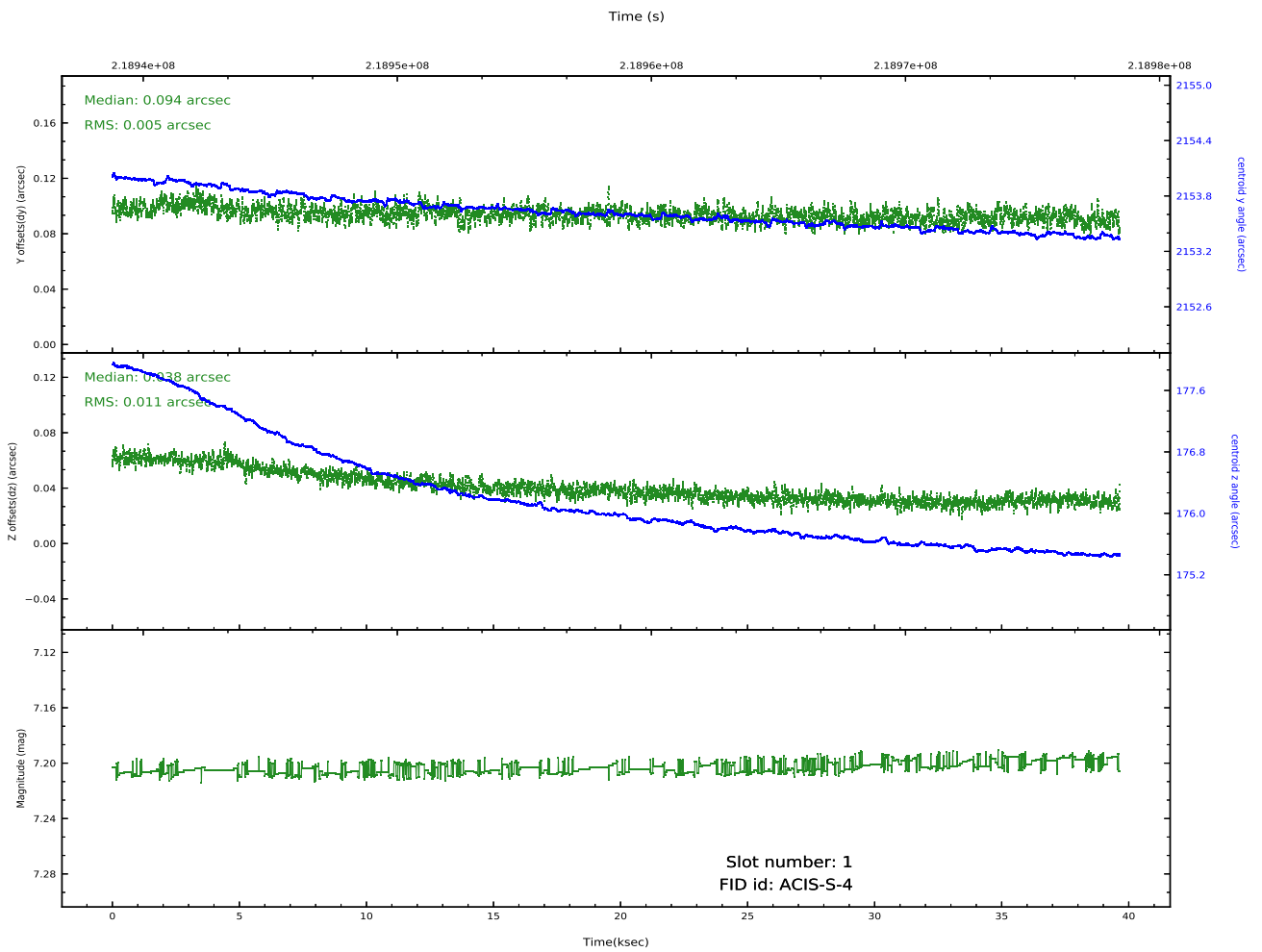
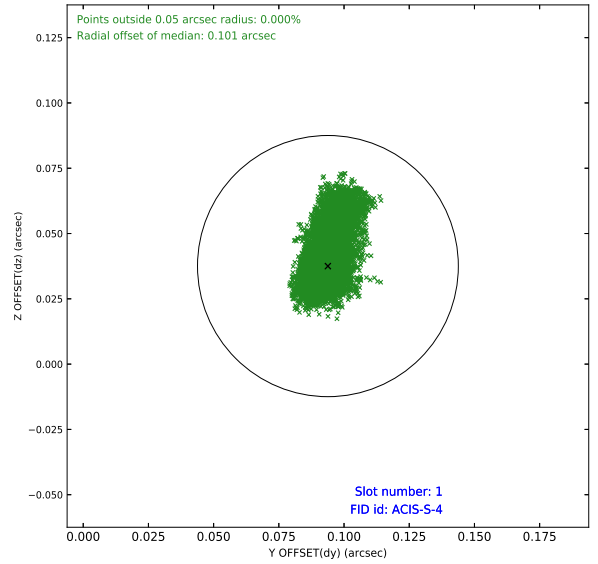
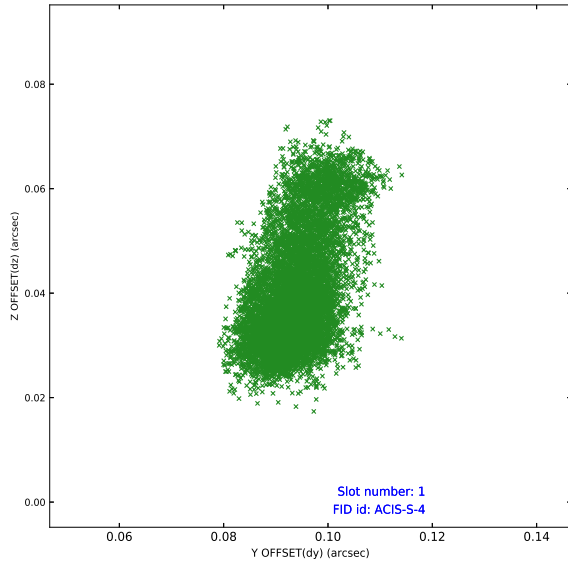


2.5 FID Slots

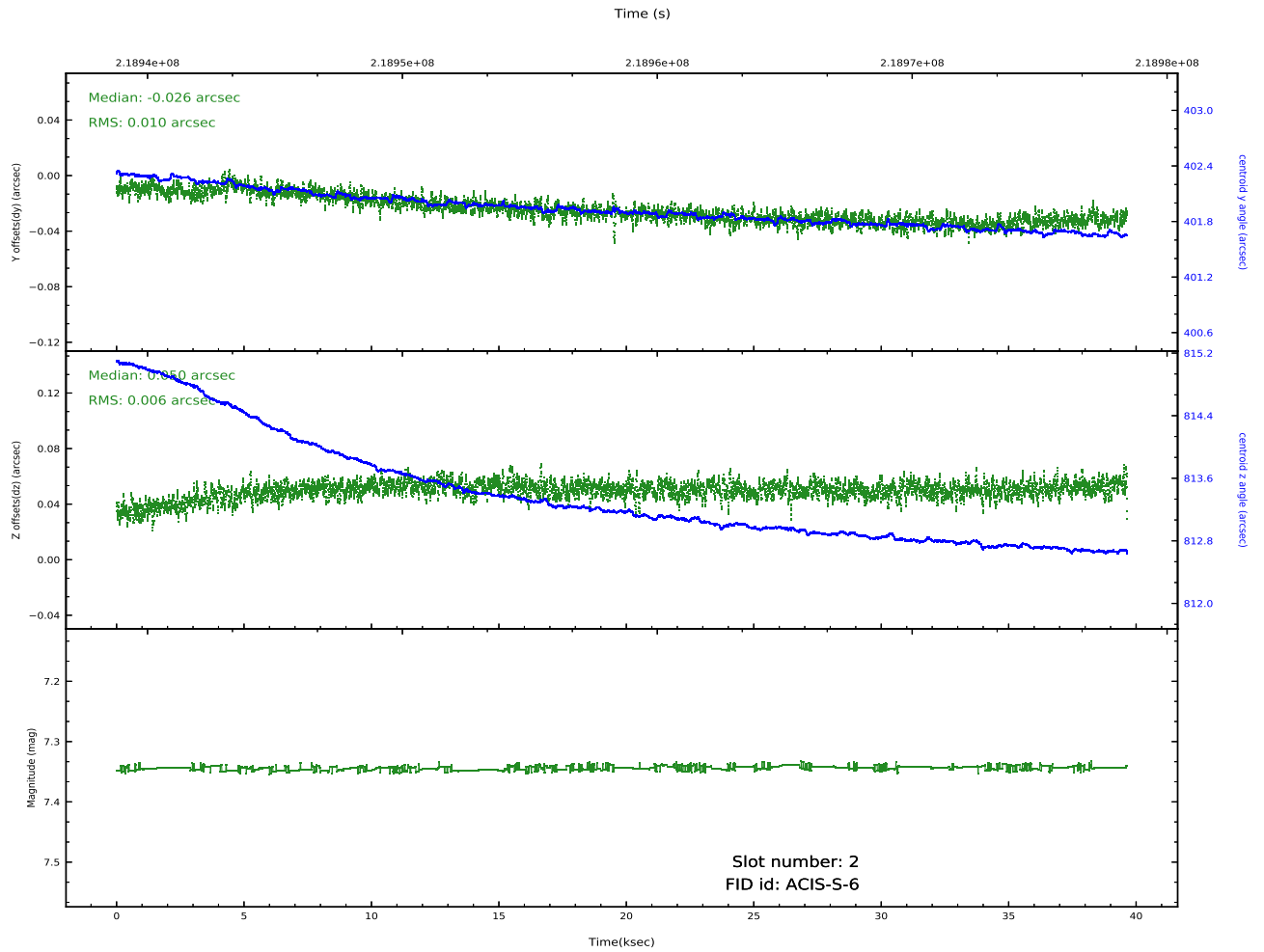
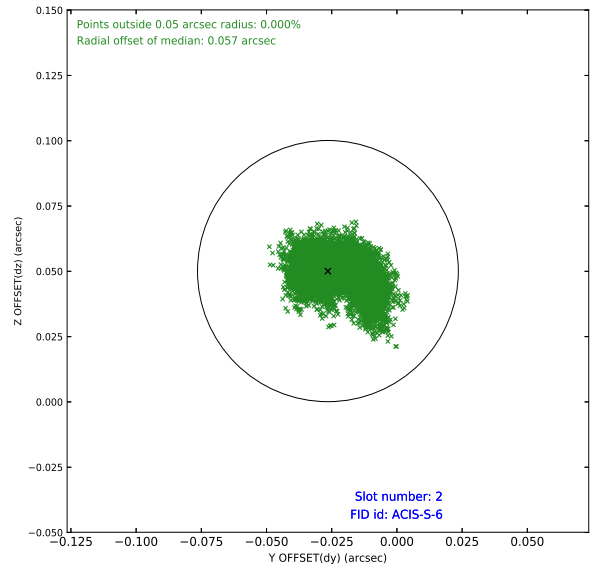
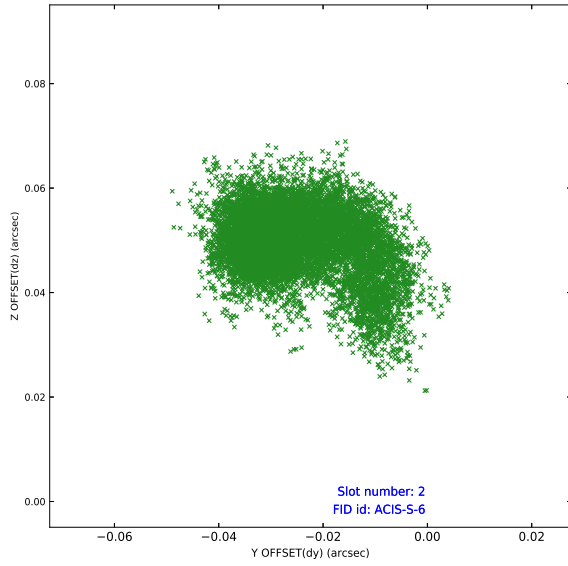
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.64479

A.2 Comments