

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6349 - L2 Version 4
Chandra X-Ray Center

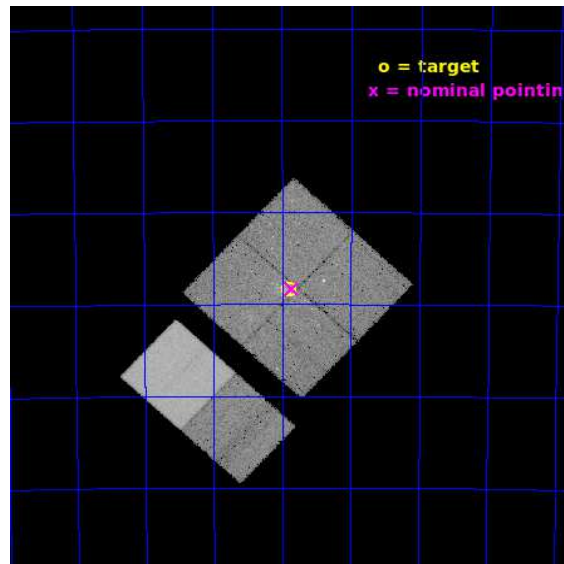
L2 Processing Date : Oct 9 2020

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1 Front

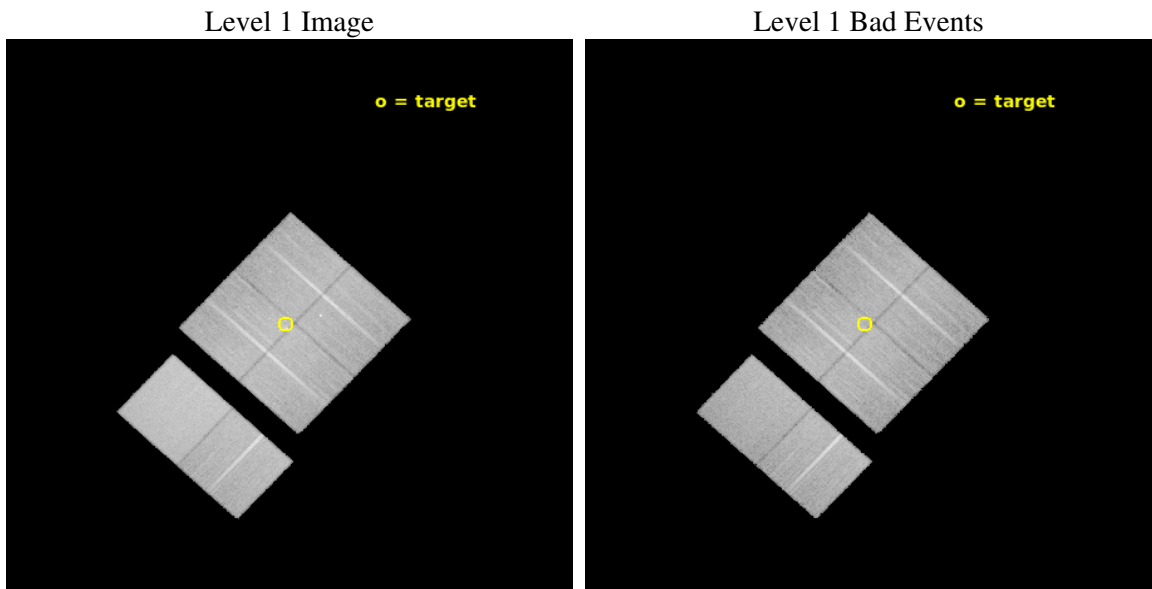
seq_num	200265	Sequence number
obs_id	6349	Observation id
title	X-ray Flows from the Giant HII Region NGC 3576	Proposal title
observer	Dr. Leisa Townsley	Principal investigator
object	NGC 3576	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	167.974167	Observer's specified target RA [deg]
dec_targ	-61.306944	Observer's specified target Dec [deg]
ra_nom	167.963733841	Nominal RA [deg]
dec_nom	-61.305116839855	Nominal Dec [deg]
roll_nom	222.8993099476	Nominal Roll [deg]
revision	4	Processing version of data
ontime	21121.877179474	Sum of GTIs [s]
livetime	20854.41925256	Livetime [s]
ontime0	21121.754059494	Sum of GTIs [s]
ontime1	21121.795099467	Sum of GTIs [s]
ontime2	21115.354198903	Sum of GTIs [s]
ontime3	21121.877179474	Sum of GTIs [s]
ontime6	21118.718289196	Sum of GTIs [s]
ontime7	21121.918219477	Sum of GTIs [s]
l2events	230647	Number of level 2 events



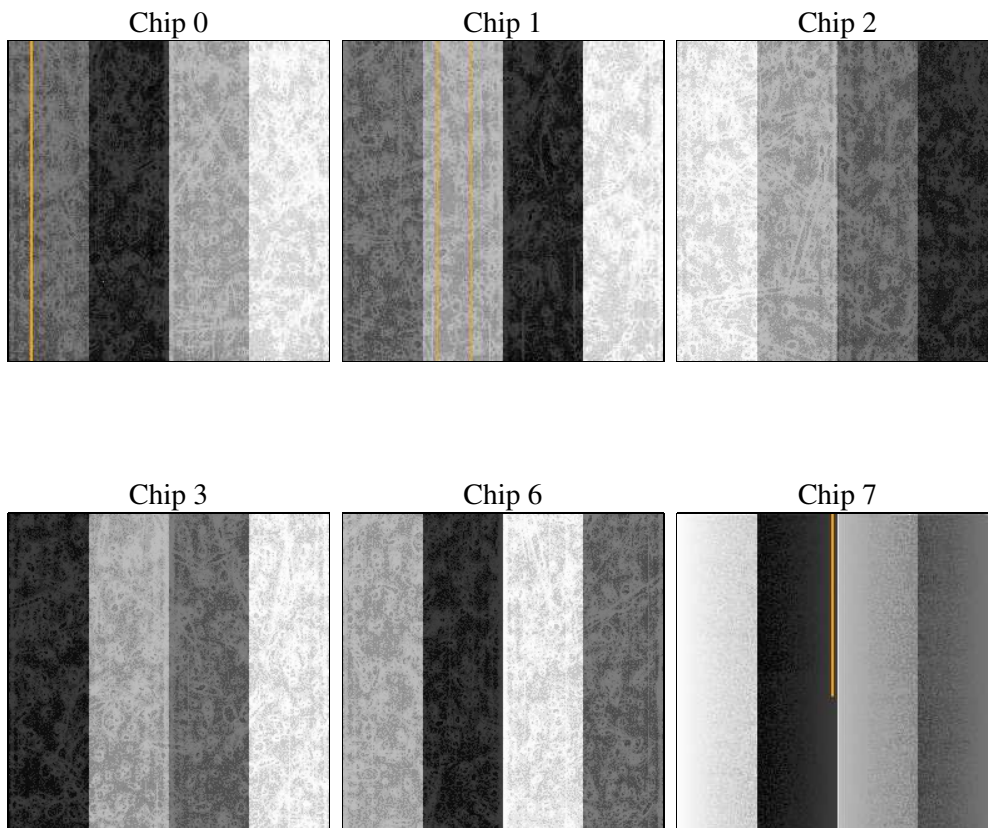
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20949.496000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	21121.877179474	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	21121.754059494	Sum of GTIs [s]
date	2020-10-09T12:47:23	Date and time of file creation	ontime1	21121.795099467	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	21115.354198903	Sum of GTIs [s]
			ontime3	21121.877179474	Sum of GTIs [s]
			ontime6	21118.718289196	Sum of GTIs [s]
			ontime7	21121.918219477	Sum of GTIs [s]
			l1events	1077968	Number of level 1 events

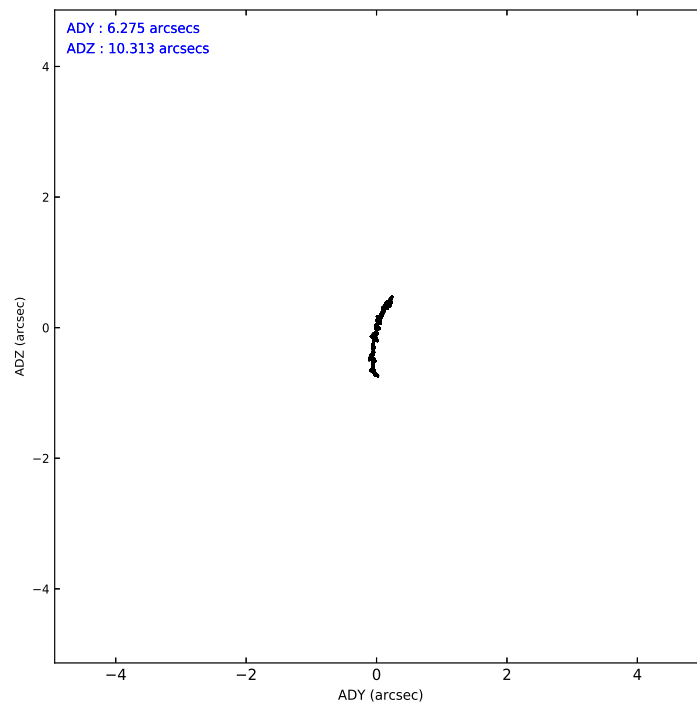
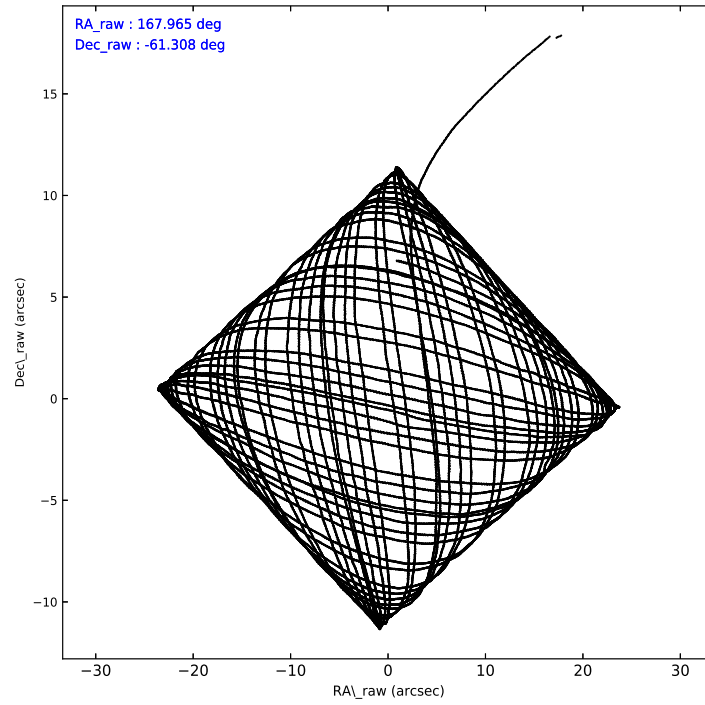
2.1.4 Events

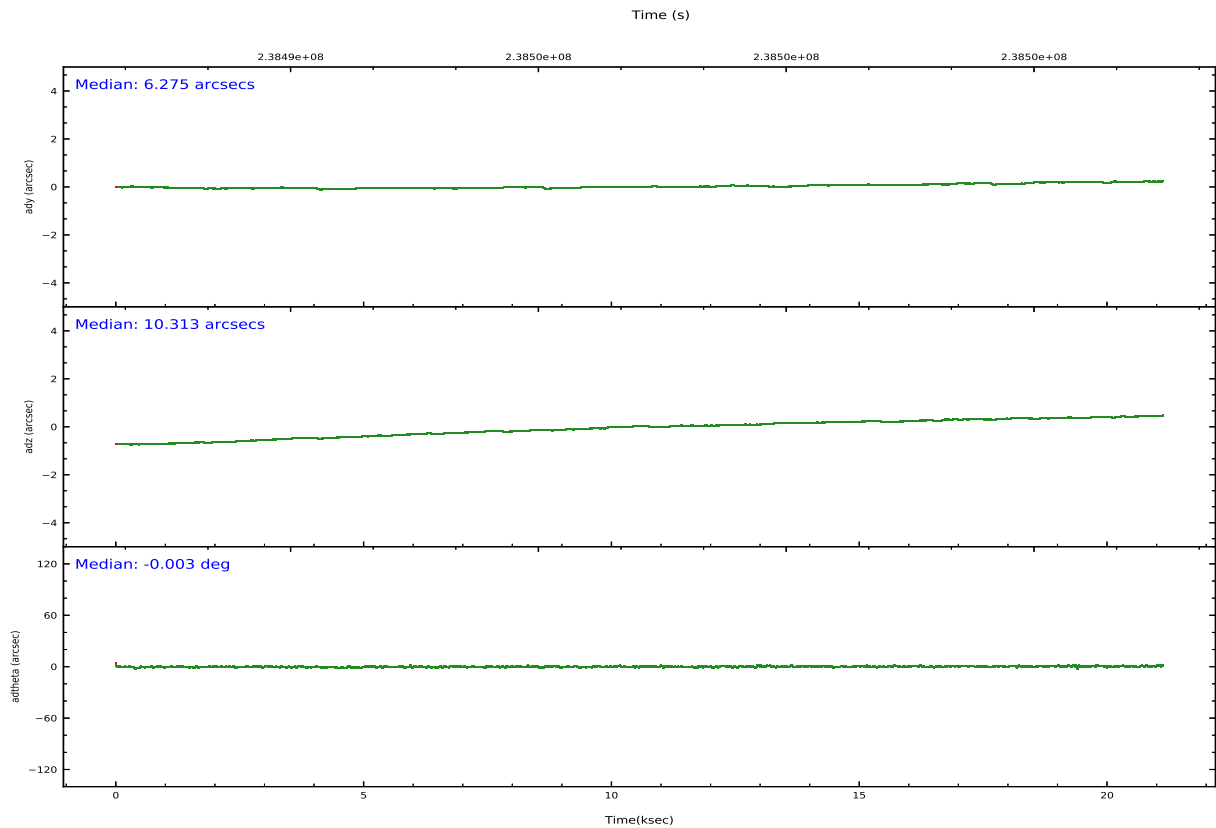
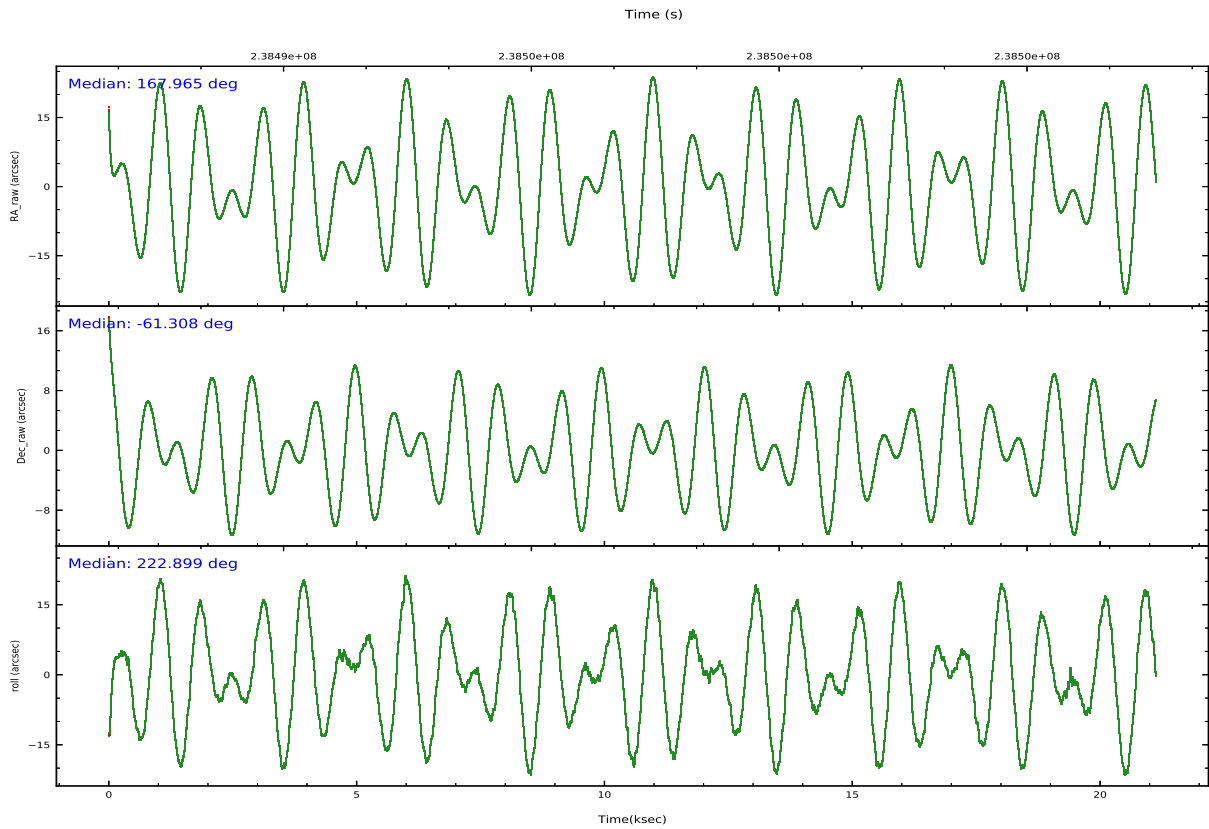
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	158089	161895	172859	174638	175428	235059	grade 0 events	15156	15294	15354	16599	13369	9366
rejected events	129152	130947	144500	144312	147832	131578		9%	9%	8%	9%	7%	3%
rejected %	81%	80%	83%	82%	84%	55%	grade 1 events	111	111	138	150	108	229
								0%	0%	0%	0%	0%	0%
							grade 2 events	5330	6148	5065	5039	5197	19991
								3%	3%	2%	2%	2%	8%
							grade 3 events	2226	2413	2078	2229	2145	8772
								1%	1%	1%	1%	1%	3%
							grade 4 events	2117	2356	2142	2258	2166	8807
								1%	1%	1%	1%	1%	3%
							grade 5 events	6798	7006	6504	7531	7884	20949
								4%	4%	3%	4%	4%	8%
							grade 6 events	4127	4754	3738	4216	4727	56579
								2%	2%	2%	2%	2%	24%
							grade 7 events	122224	123813	137840	136616	139832	110366
								77%	76%	79%	78%	79%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	8	8
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
[deg] Pointing RA	167.981626	167.963733841	Alternating exposures requested	N	N
[deg] Pointing Dec	-61.282329	-61.305116839855	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	222.706546	222.8993099476			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	238486655.184000	238485587.25993			
Observation start date	2005-07-23T06:16:31	2005-07-23T05:59:47			
[s] Observation end time (MET)	238507605.184000	238507836.42345			
Observation end date	2005-07-23T12:05:41	2005-07-23T12:10:36			
Read mode	TIMED	TIMED			

2.3 Aspect



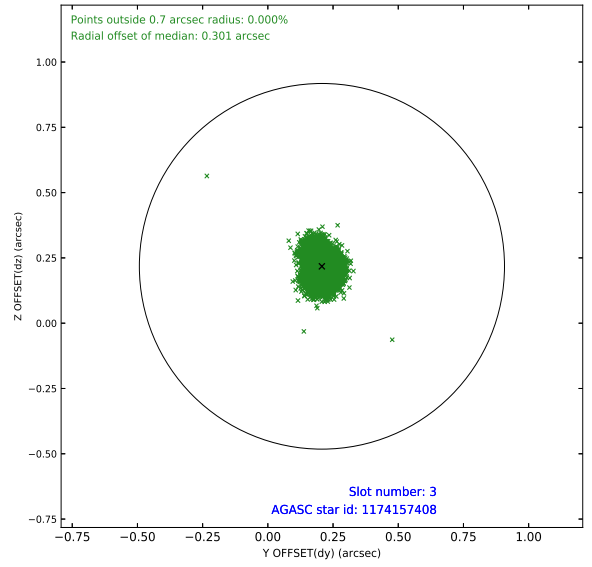
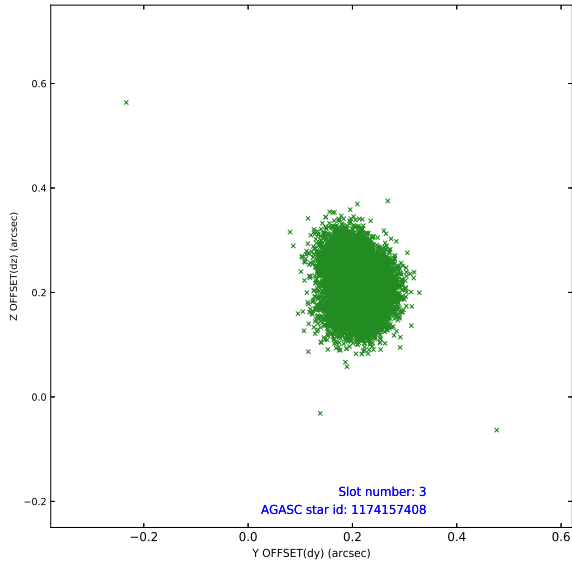


Slot Statistics

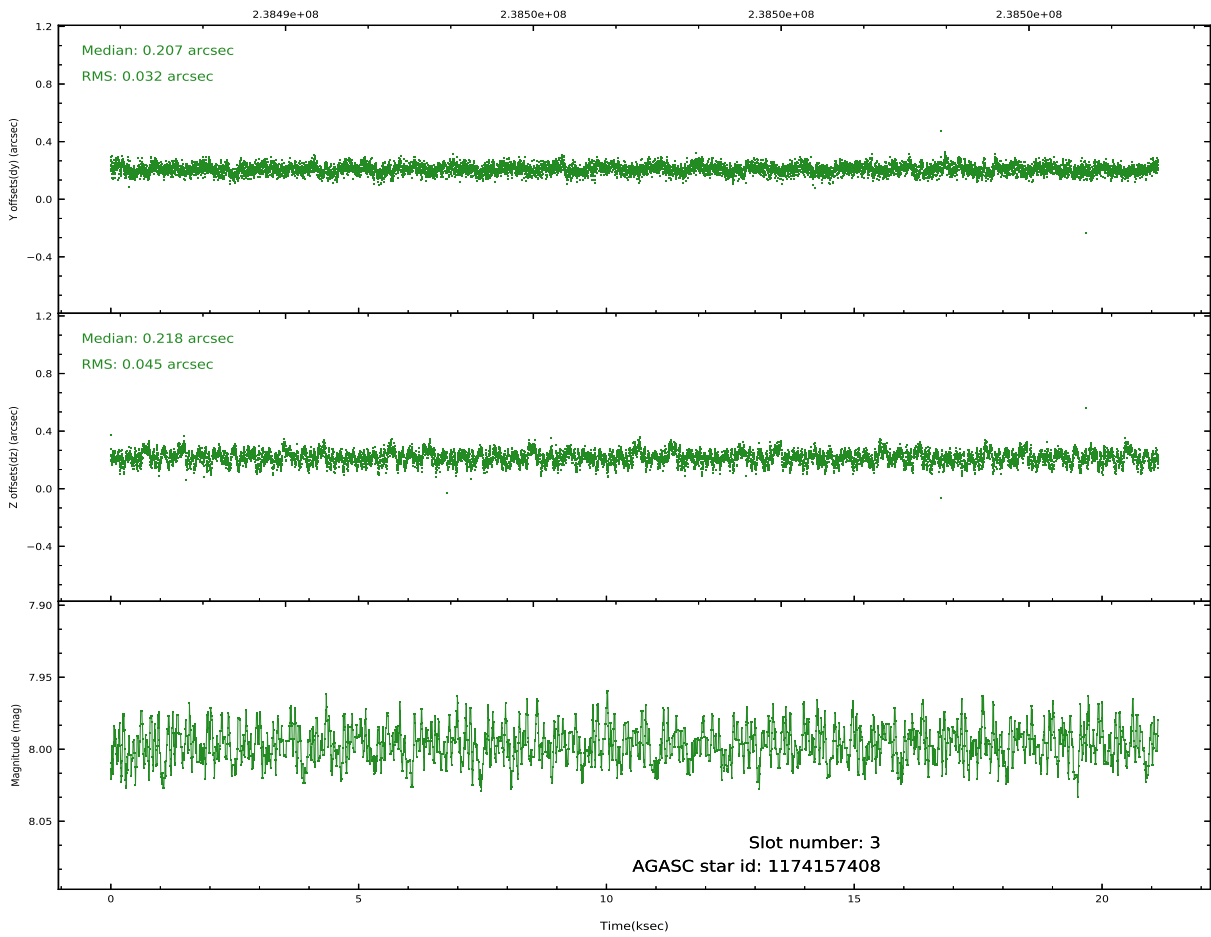
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.25	5154	1.000	-0.010	-0.042	0.026	0.045	0.000000	0.000000	933.40	-833
1	FID		ACIS-I-4	7.18	5154	1.000	0.144	0.057	0.018	0.030	0.000000	0.000000	2153.66	1066
2	FID		ACIS-I-5	7.22	5154	1.000	-0.232	0.055	0.012	0.019	0.000000	0.000000	-1814.63	1064
3	GUIDE	used	1174157408	8.00	10309	1.000	0.207	0.218	0.059	0.094	167.115550	-61.626529	1936.35	-86
4	GUIDE	used	1174277736	7.97	10308	1.000	0.300	0.161	0.074	0.116	167.205882	-61.559450	1660.14	-162
5	GUIDE	used	1174281840	8.17	10305	1.000	-0.139	-0.252	0.072	0.115	167.912903	-60.443364	-1958.39	-2302
6	GUIDE	used	1174282480	7.02	10308	1.000	-0.406	-0.025	0.047	0.075	168.099465	-60.378692	-2360.55	-2248
7	GUIDE	used	1174286632	8.71	10307	1.000	0.041	-0.097	0.067	0.107	169.069142	-61.673672	-399.11	2306

2.4 Star Slots

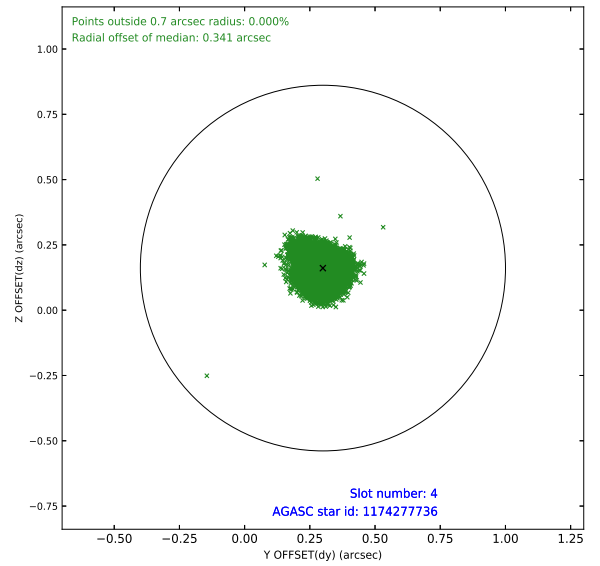
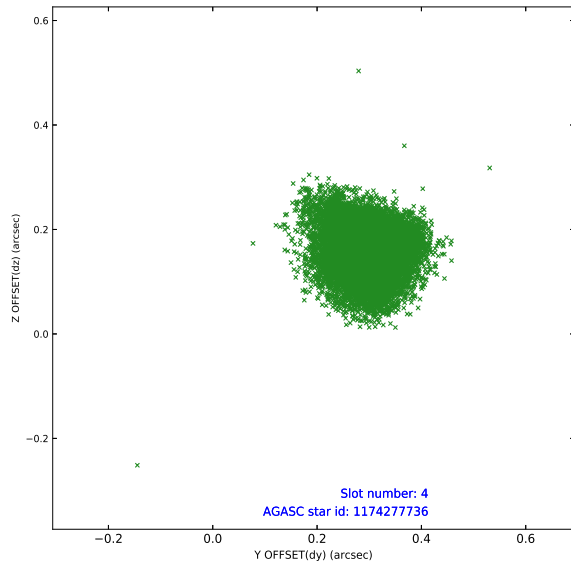
2.4.1 Slot 3



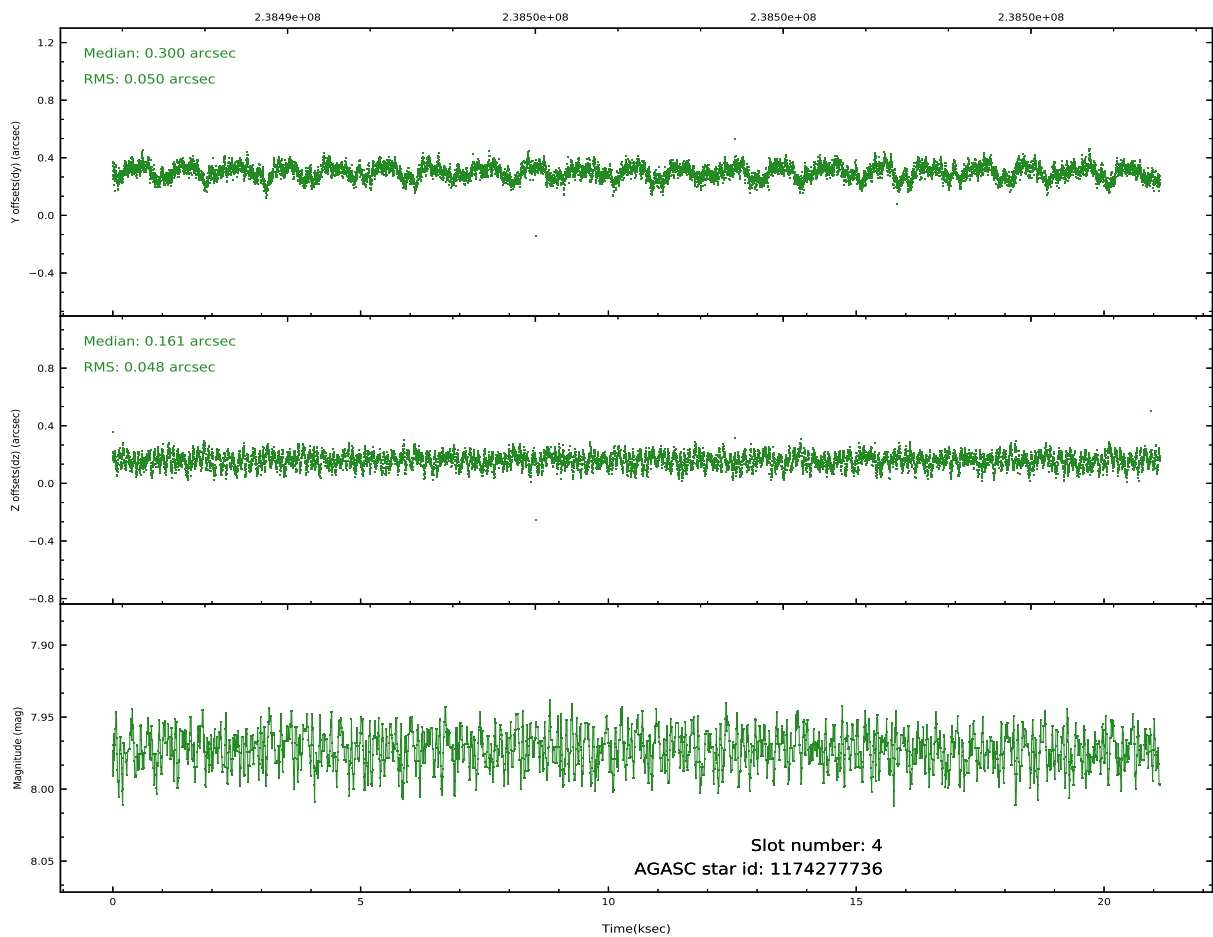
Time (s)



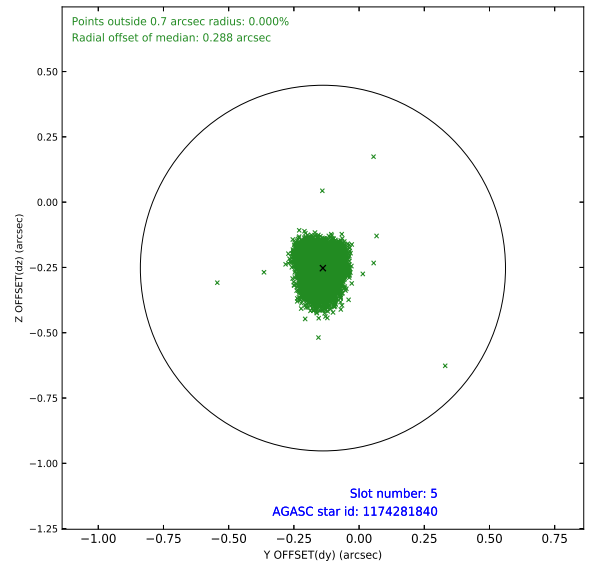
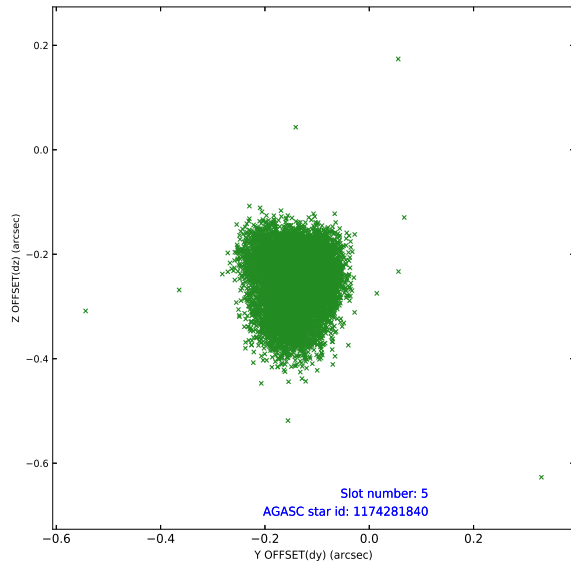
2.4.2 Slot 4



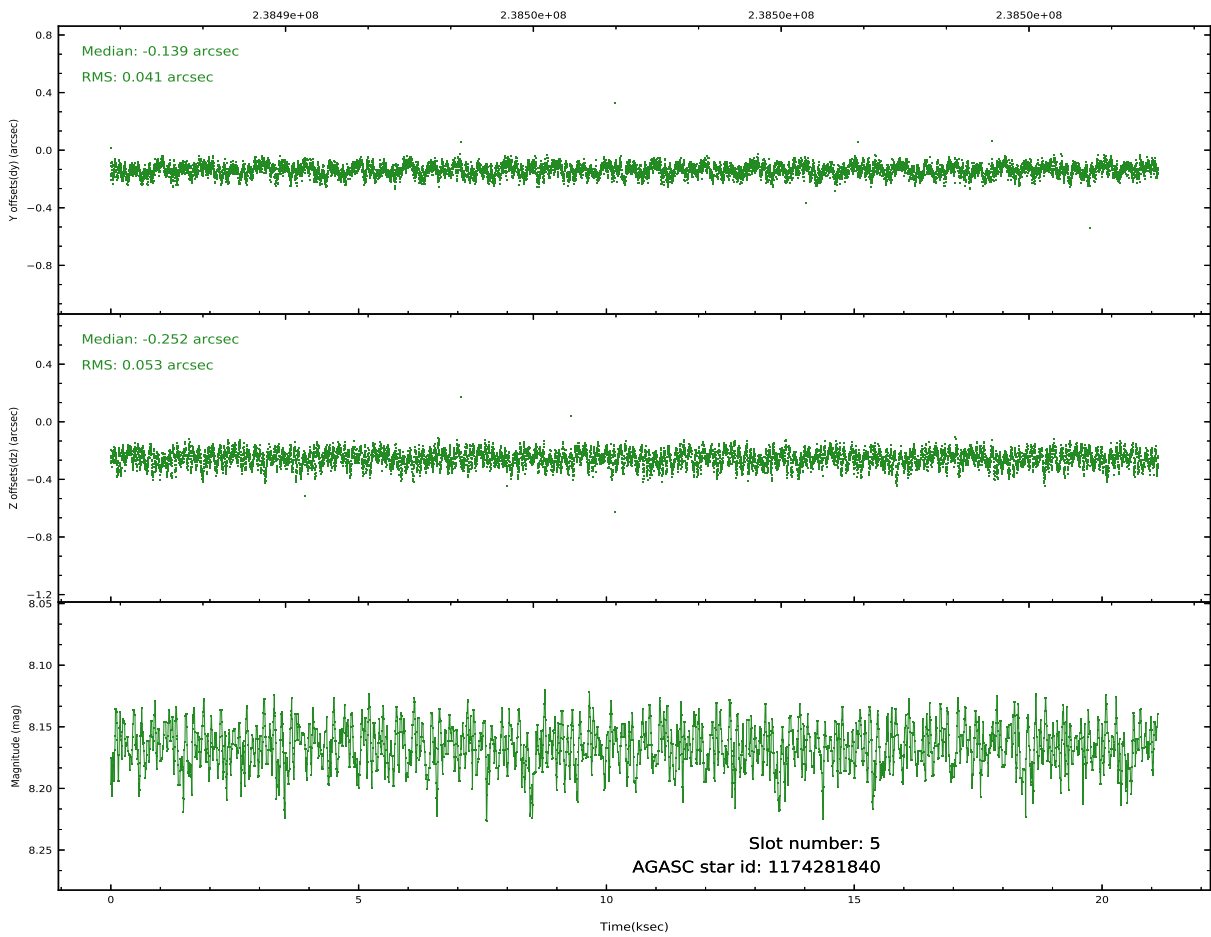
Time (s)



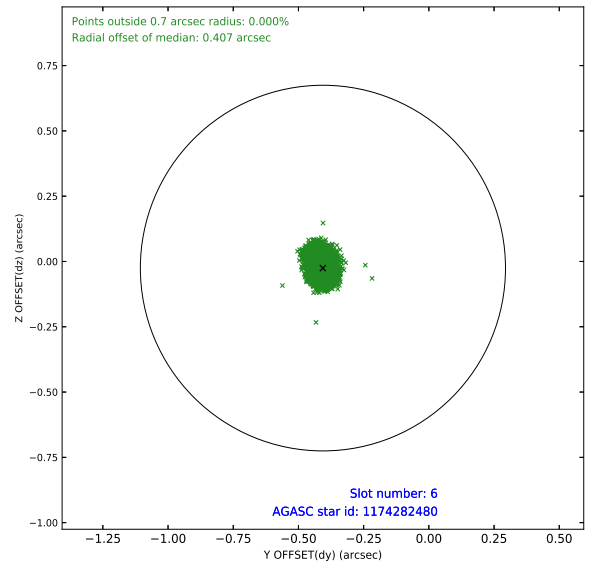
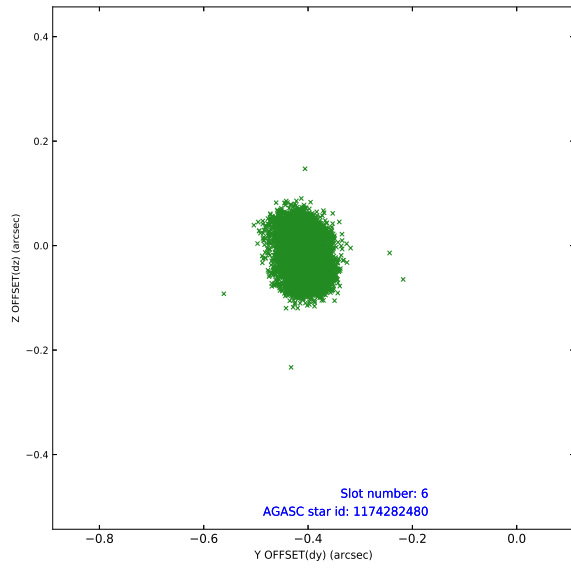
2.4.3 Slot 5



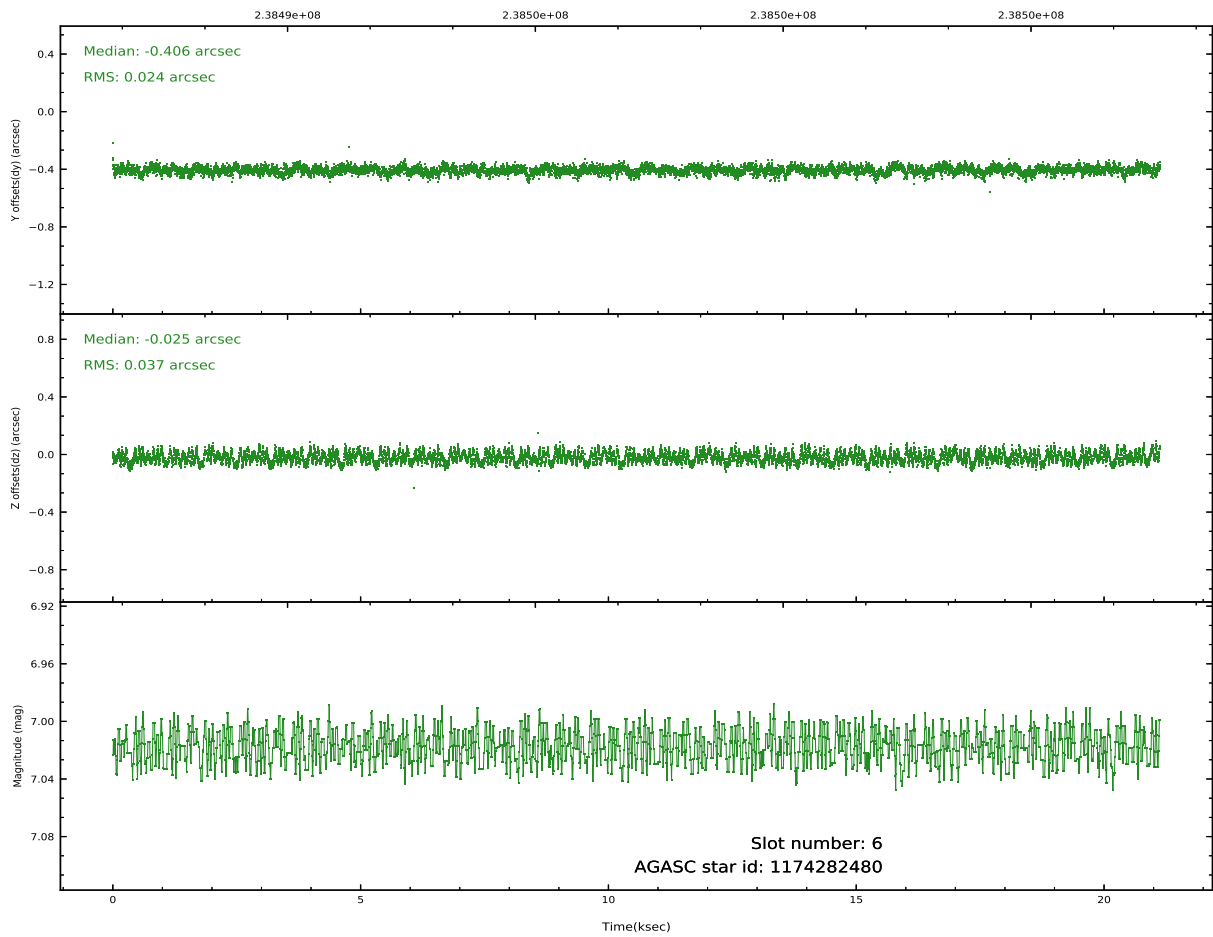
Time (s)



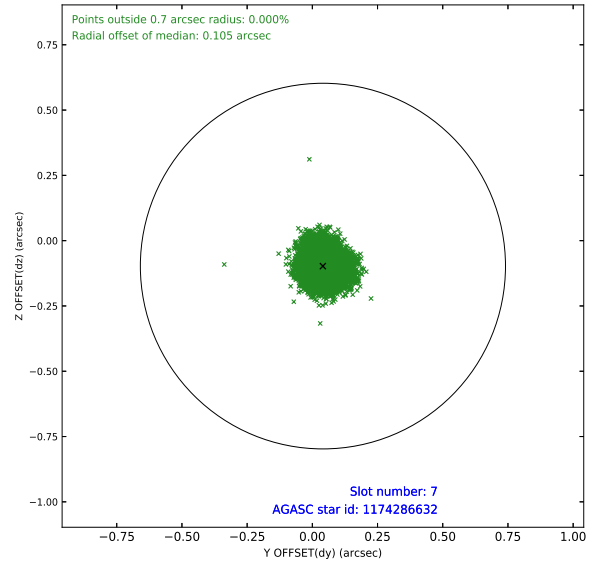
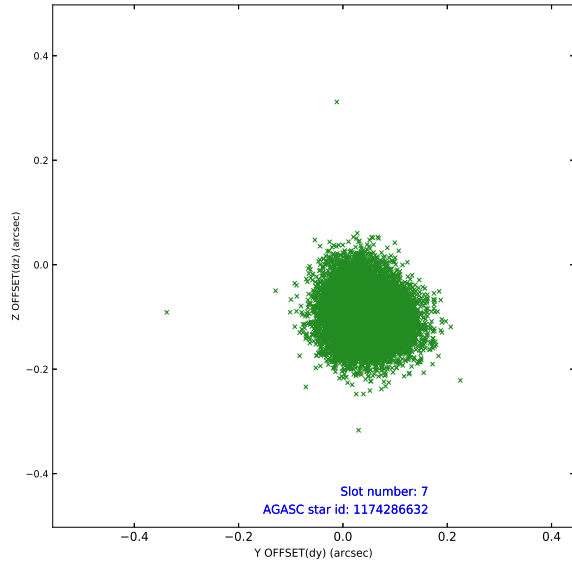
2.4.4 Slot 6



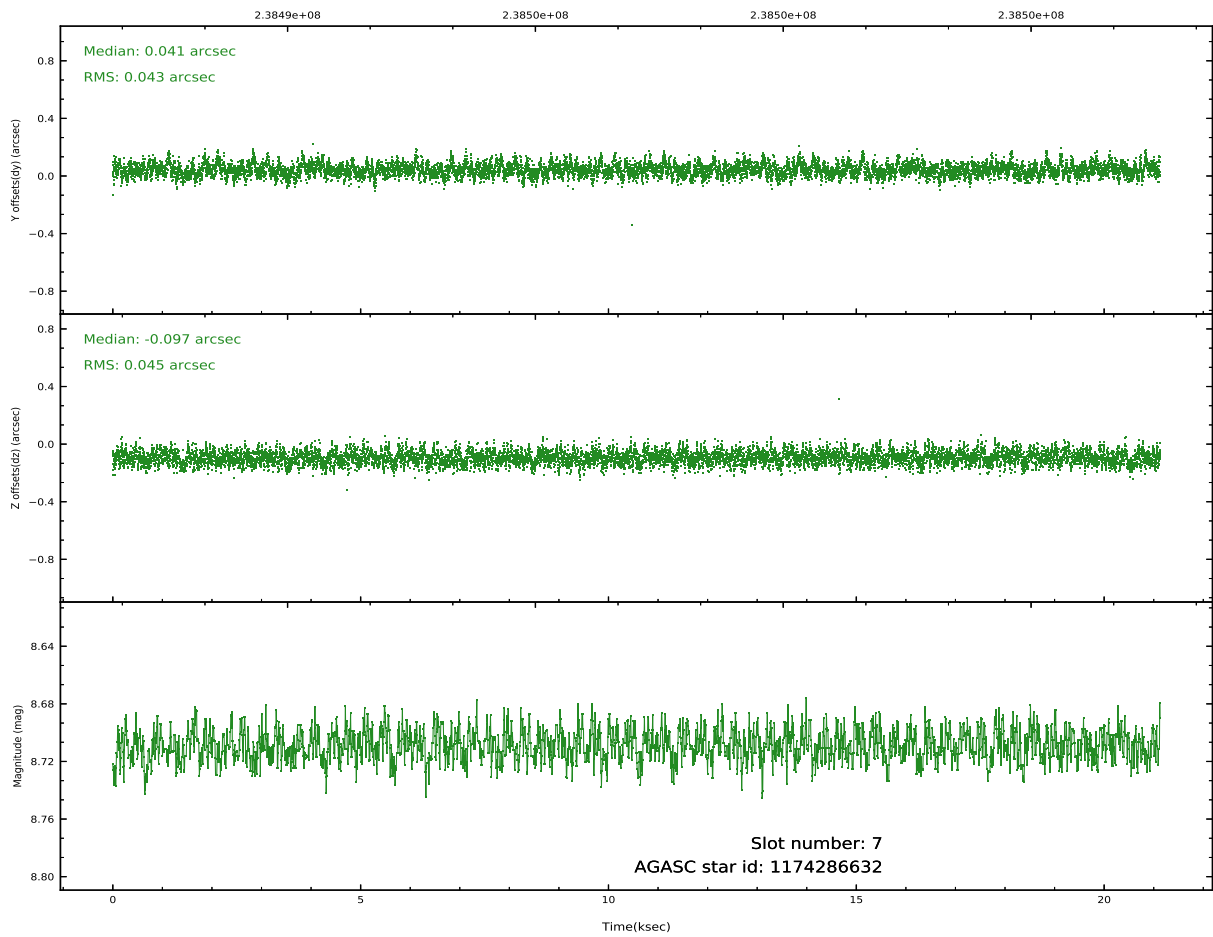
Time (s)



2.4.5 Slot 7

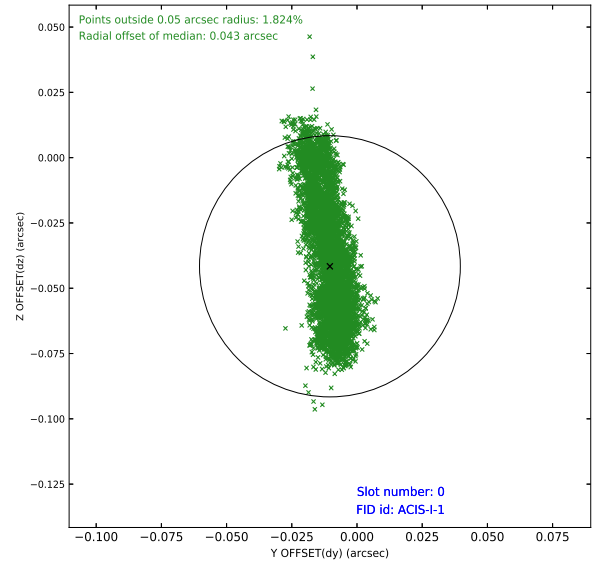
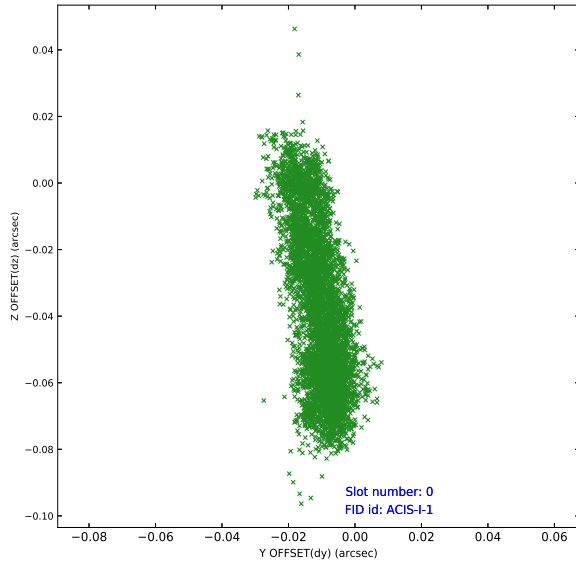


Time (s)

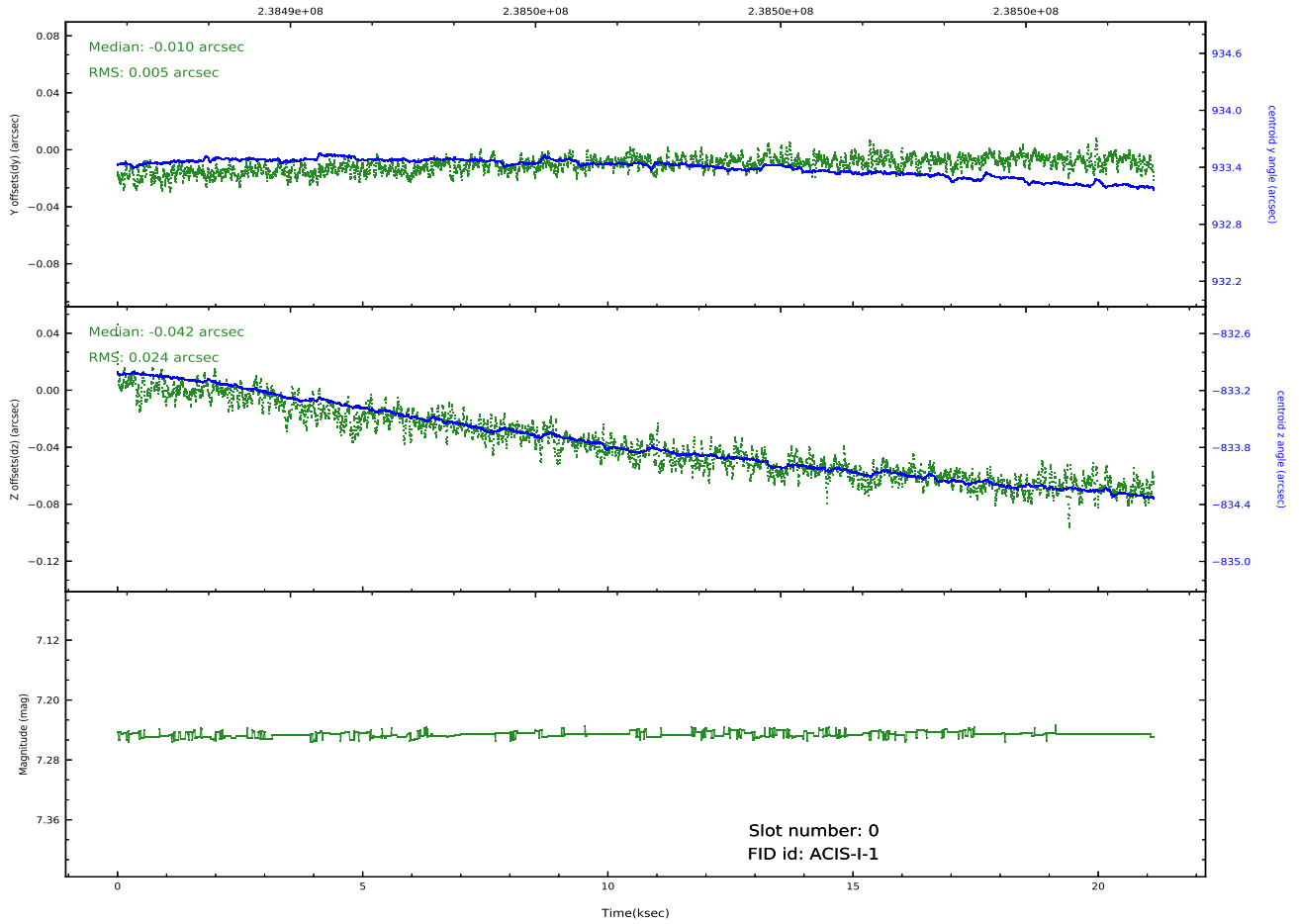


2.5 FID Slots

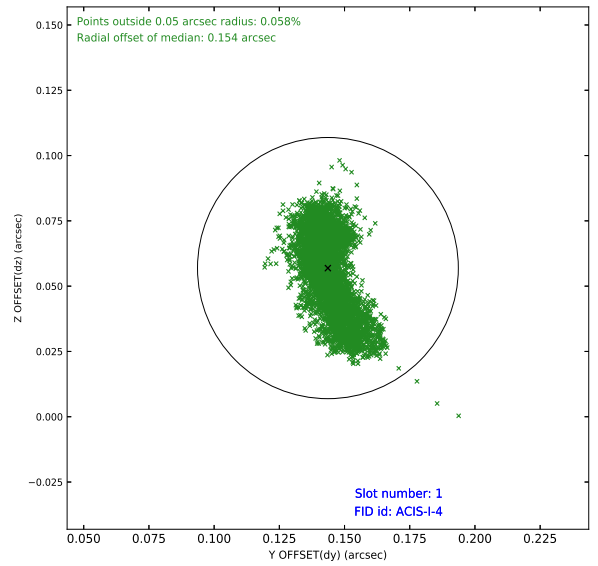
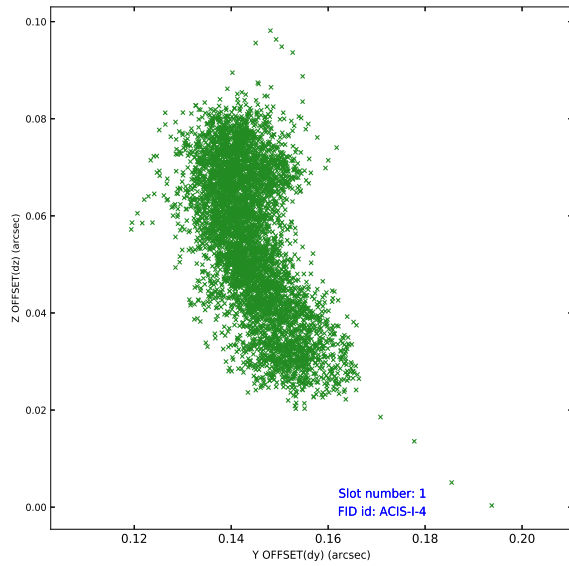
2.5.1 Slot 0



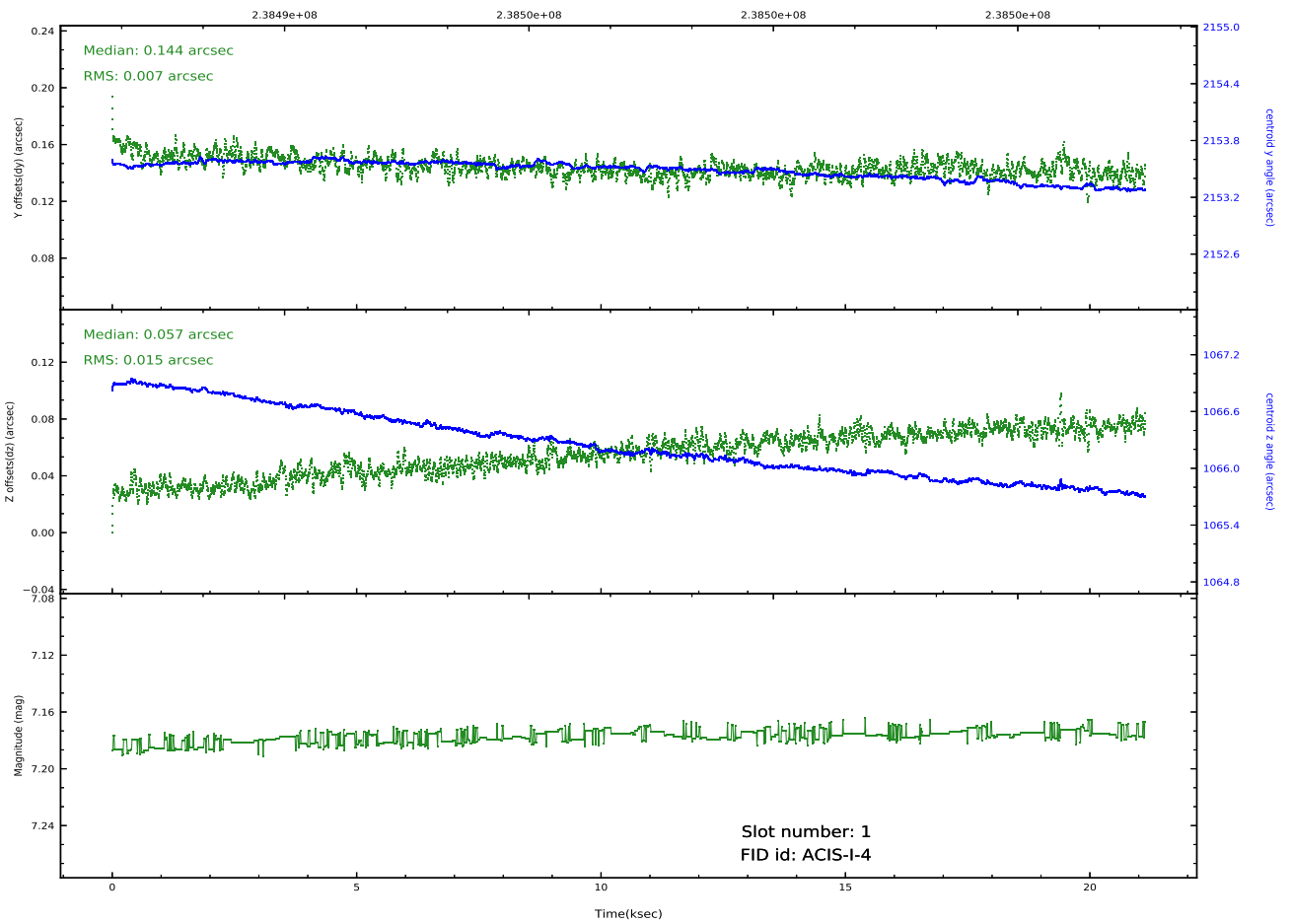
Time (s)



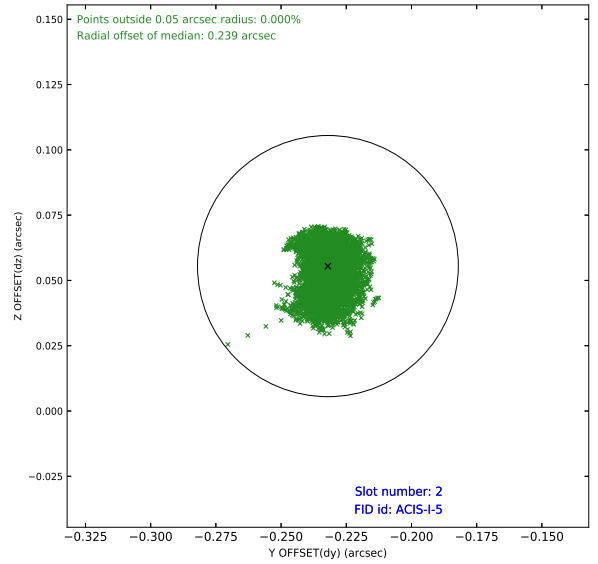
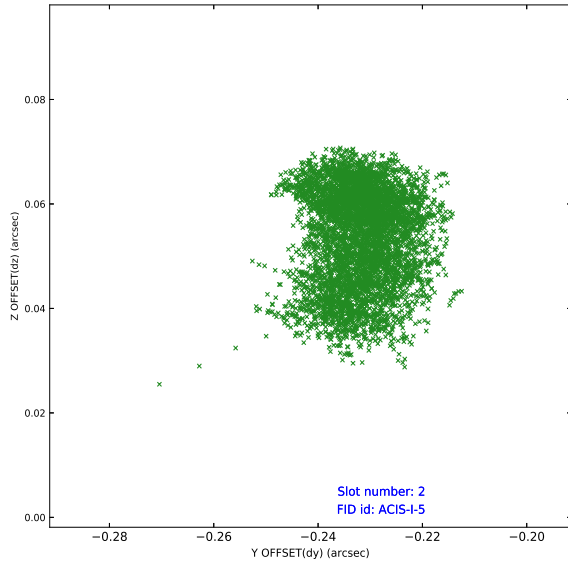
2.5.2 Slot 1



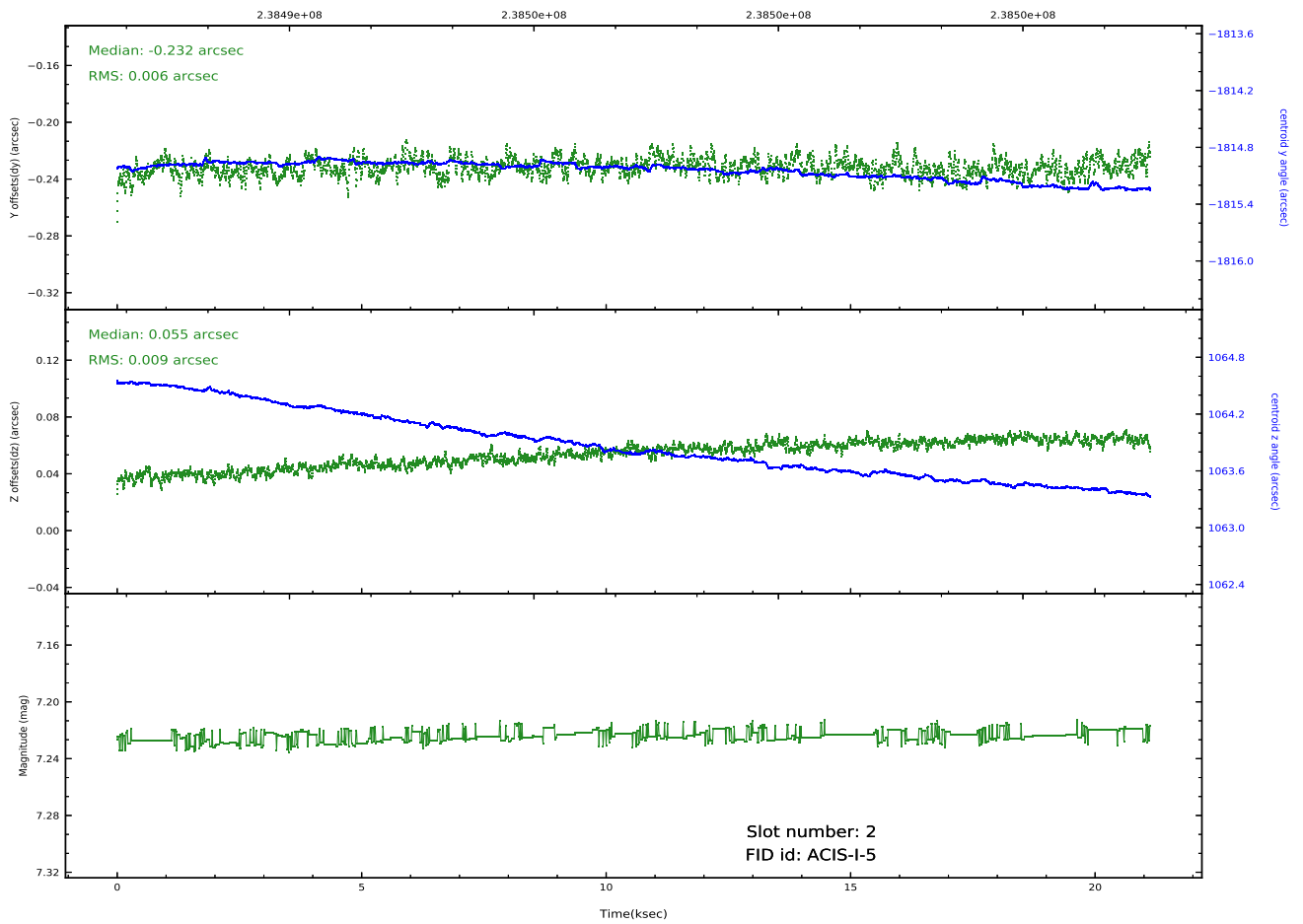
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.12319

A.2 Comments