

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5908 - L2 Version 4
Chandra X-Ray Center

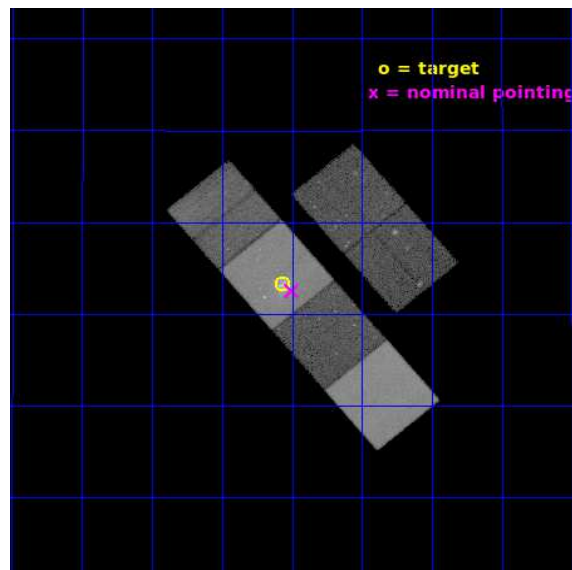
L2 Processing Date : Oct 8 2020

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1 Front

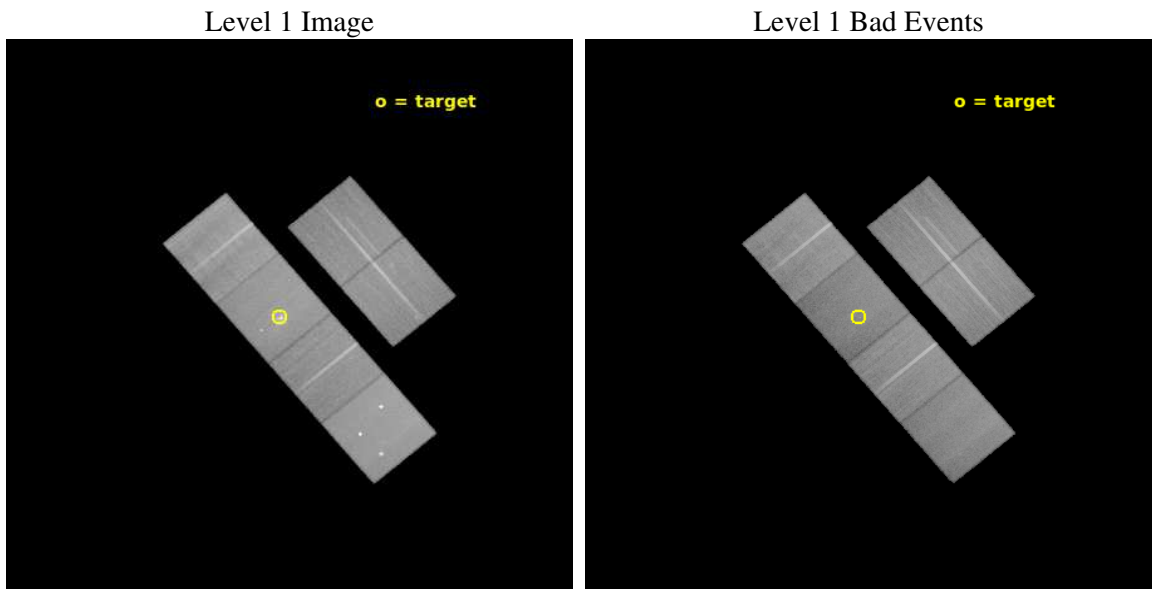
seq_num	600427	Sequence number
obs_id	5908	Observation id
title	The Exploding Galaxies M84 and M89	Proposal title
observer	Christine Jones	Principal investigator
object	M84	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.265833	Observer's specified target RA [deg]
dec_targ	12.886944	Observer's specified target Dec [deg]
ra_nom	186.25006172159	Nominal RA [deg]
dec_nom	12.875903693903	Nominal Dec [deg]
roll_nom	229.87278442259	Nominal Roll [deg]
revision	4	Processing version of data
ontime	46675.199826121	Sum of GTIs [s]
livetime	46084.170341492	Livetime [s]
ontime2	46671.958845854	Sum of GTIs [s]
ontime3	46671.958815902	Sum of GTIs [s]
ontime5	46675.199826121	Sum of GTIs [s]
ontime6	46671.95883584	Sum of GTIs [s]
ontime7	46675.199826121	Sum of GTIs [s]
ontime8	46675.199826121	Sum of GTIs [s]
l2events	499459	Number of level 2 events



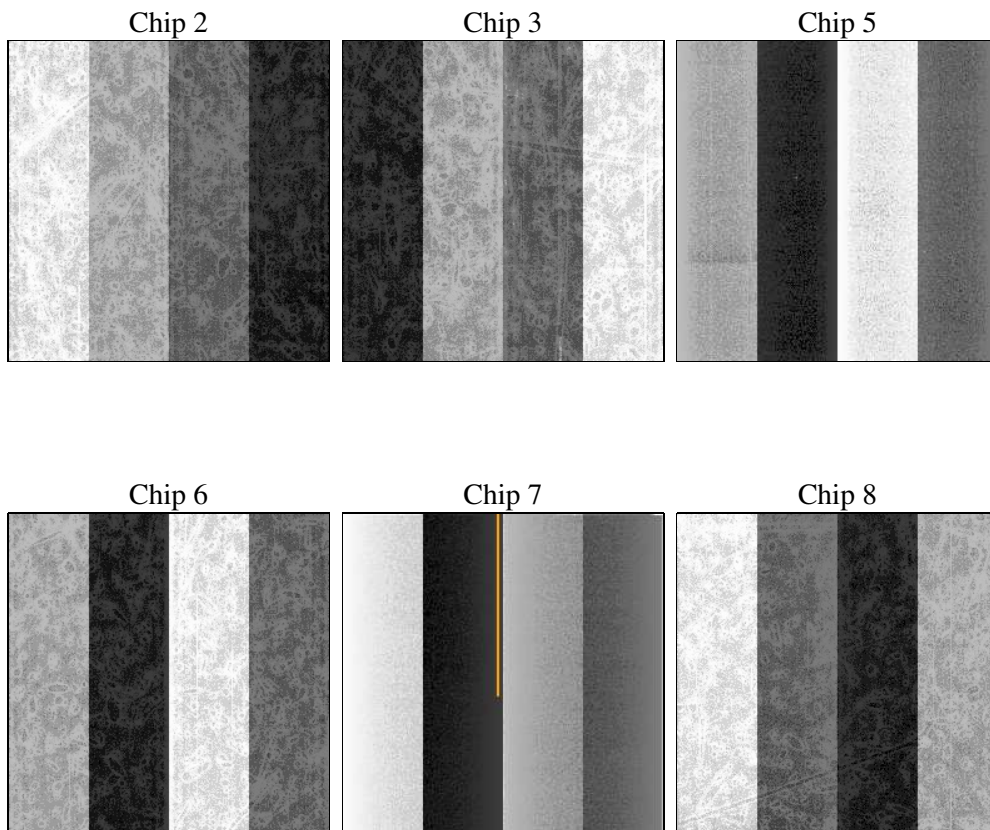
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	46500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	46675.199826121	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	46671.958845854	Sum of GTIs [s]
date	2020-10-08T06:49:30	Date and time of file creation	ontime3	46671.958815902	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	46675.199826121	Sum of GTIs [s]
			ontime6	46671.95883584	Sum of GTIs [s]
			ontime7	46675.199826121	Sum of GTIs [s]
			ontime8	46675.199826121	Sum of GTIs [s]
			l1events	2116481	Number of level 1 events

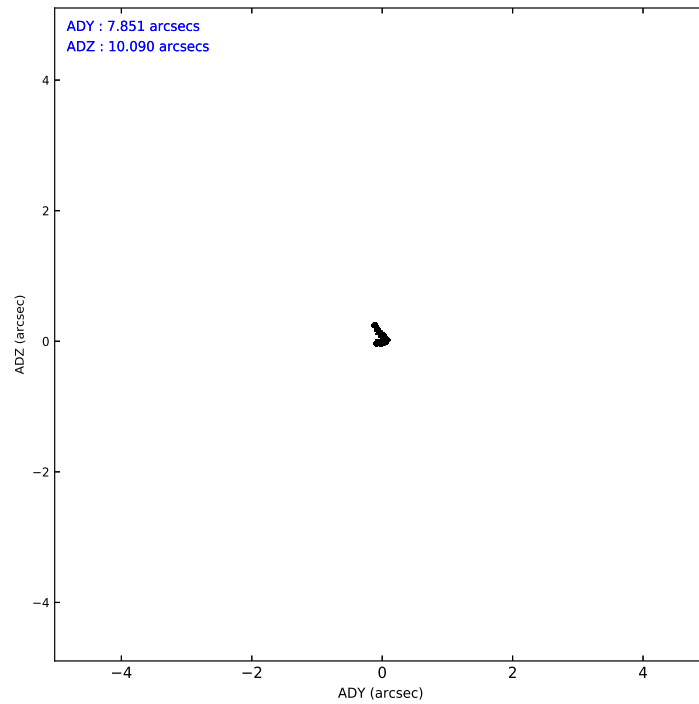
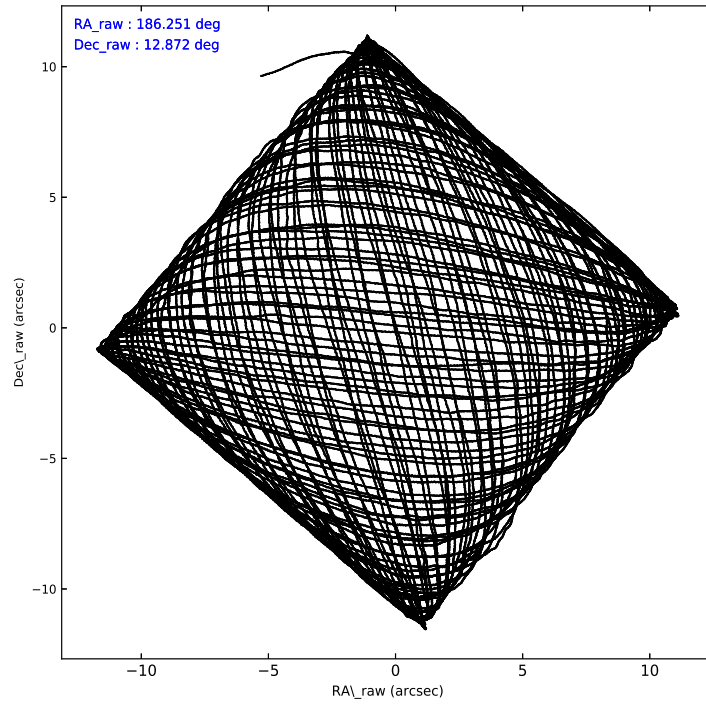
2.1.4 Events

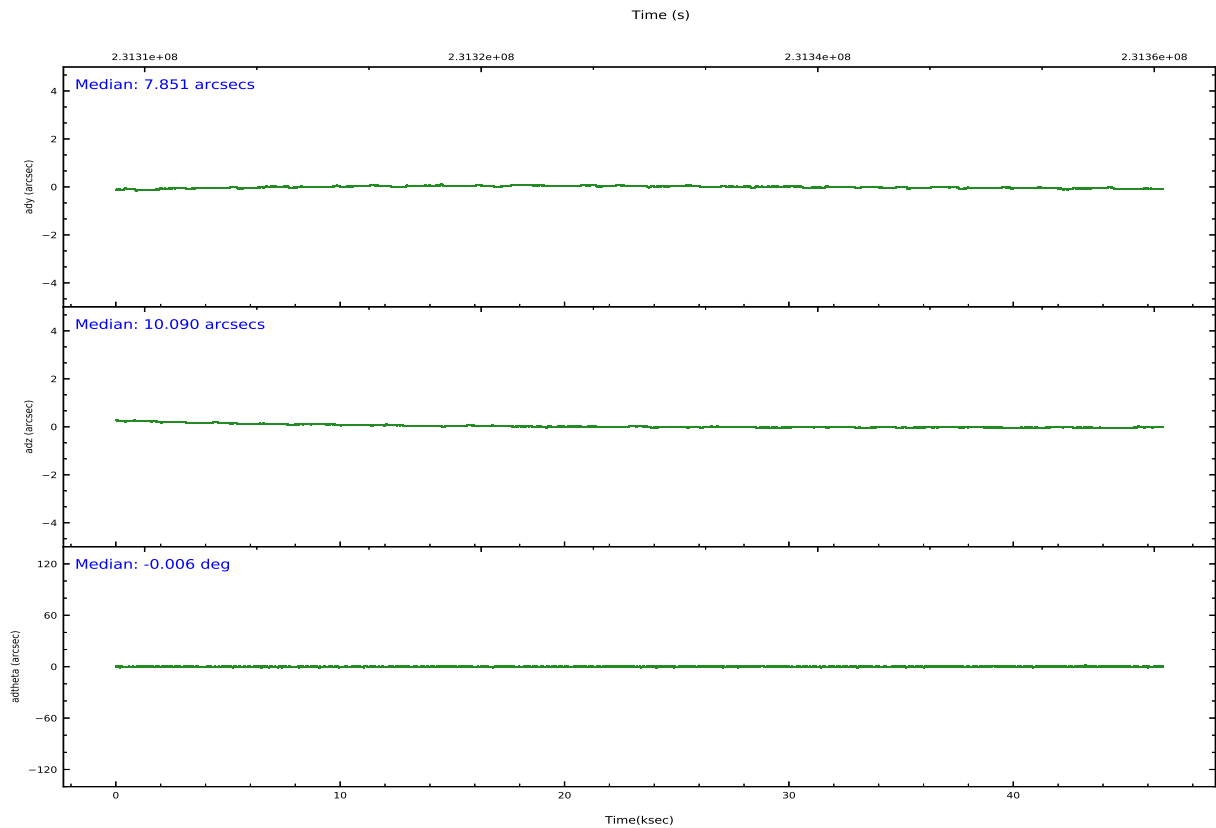
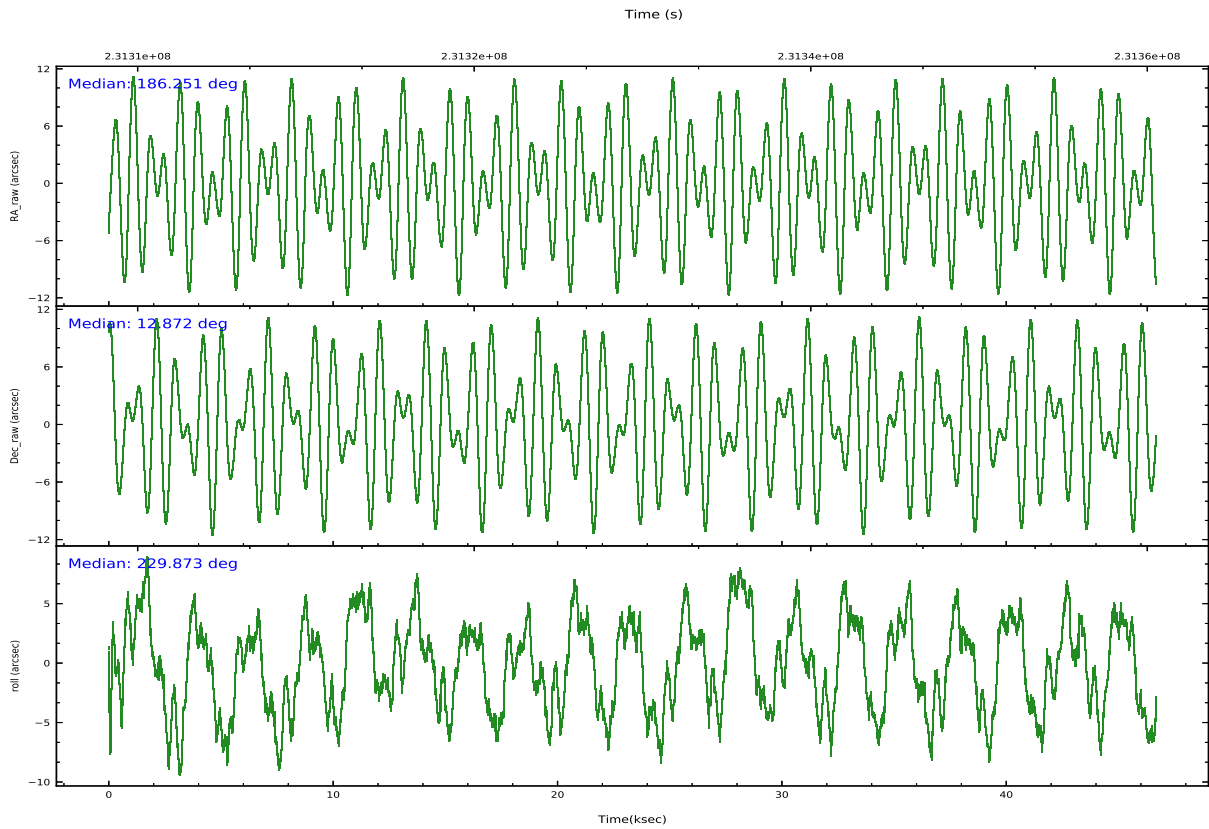
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	320084	292218	426239	302235	373144	402561	grade 0 events	13072	13441	36301	15195	26606	45093
rejected events	288449	261242	211660	267020	187025	296032		4%	4%	8%	5%	7%	11%
rejected %	90%	89%	49%	88%	50%	73%	grade 1 events	158	158	449	148	312	361
								0%	0%	0%	0%	0%	0%
							grade 2 events	7220	6288	60823	7058	41065	21630
								2%	2%	14%	2%	11%	5%
							grade 3 events	3246	3318	9203	3553	19114	9855
								1%	1%	2%	1%	5%	2%
							grade 4 events	3372	3262	8924	3616	18784	9007
								1%	1%	2%	1%	5%	2%
							grade 5 events	10186	11579	33287	12114	36138	17207
								3%	3%	7%	4%	9%	4%
							grade 6 events	5531	5444	105236	6656	84812	23708
								1%	1%	24%	2%	22%	5%
							grade 7 events	277299	248728	172016	253895	146313	275700
								86%	85%	40%	84%	39%	68%

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	186.255346	186.25006172159	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.899106	12.875903693903	Alternating exposures requested	N	N
[deg] Pointing Roll	229.713334	229.87278442259	[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)	231308894.184000	231307189.05726			
Observation start date	2005-05-01T04:27:10	2005-05-01T03:59:49			
[s] Observation end time (MET)	231355394.184000	231355846.83448			
Observation end date	2005-05-01T17:22:10	2005-05-01T17:30:46			
Read mode	TIMED	TIMED			

2.3 Aspect



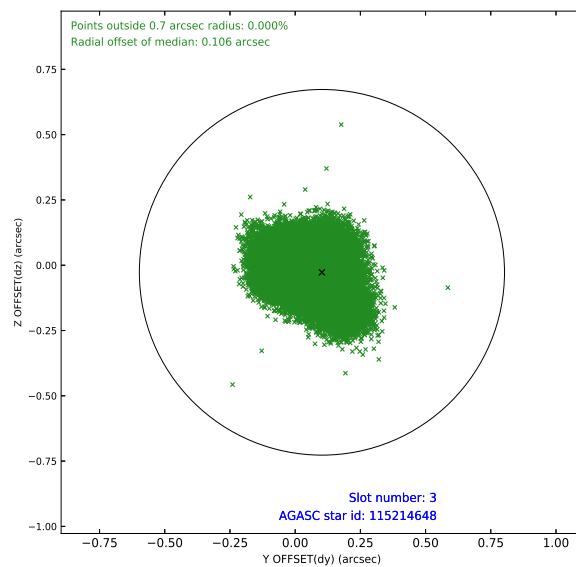
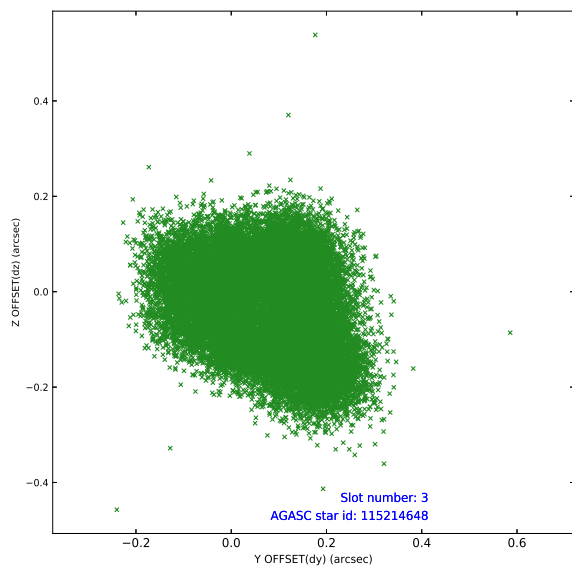


Slot Statistics

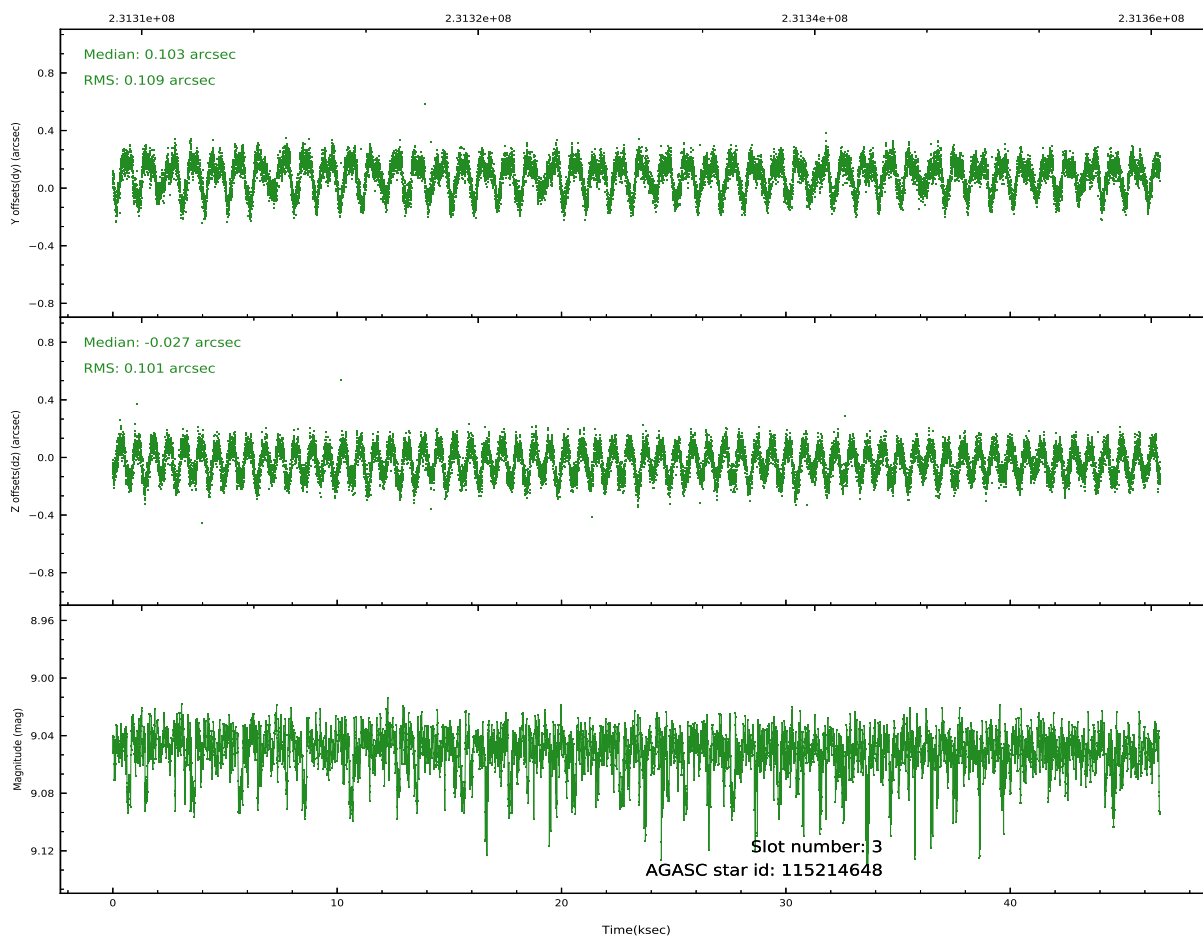
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	11386	1.000	-0.076	-0.062	0.007	0.011	0.000000	0.000000	-760.62	-1731
1	FID		ACIS-S-4	7.21	11384	1.000	0.172	0.053	0.006	0.013	0.000000	0.000000	2152.83	177
2	FID		ACIS-S-5	7.23	11384	1.000	-0.127	0.018	0.008	0.014	0.000000	0.000000	-1813.60	170
3	GUIDE	used	115214648	9.05	22758	1.000	0.103	-0.027	0.161	0.241	185.771147	12.685188	1686.60	-800
4	GUIDE	used	115214872	10.12	22747	1.000	0.072	-0.033	0.202	0.337	185.840719	12.668185	1575.56	-573
5	GUIDE	used	115215968	10.21	22673	1.000	-0.013	0.138	0.134	0.218	186.327588	13.159527	-878.48	-412
6	GUIDE	used	115347480	9.45	22753	1.000	-0.220	-0.120	0.083	0.134	186.668576	13.310410	-2066.29	145
7	GUIDE	used	115349744	10.34	22683	1.000	0.074	0.034	0.156	0.252	186.878186	12.752529	-1013.39	2007

2.4 Star Slots

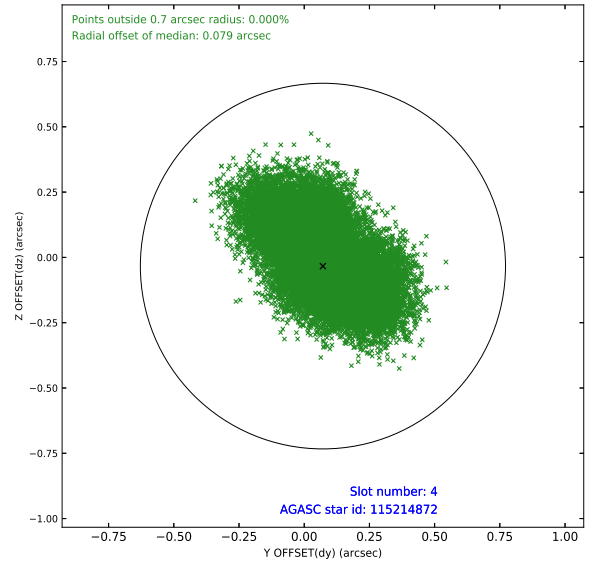
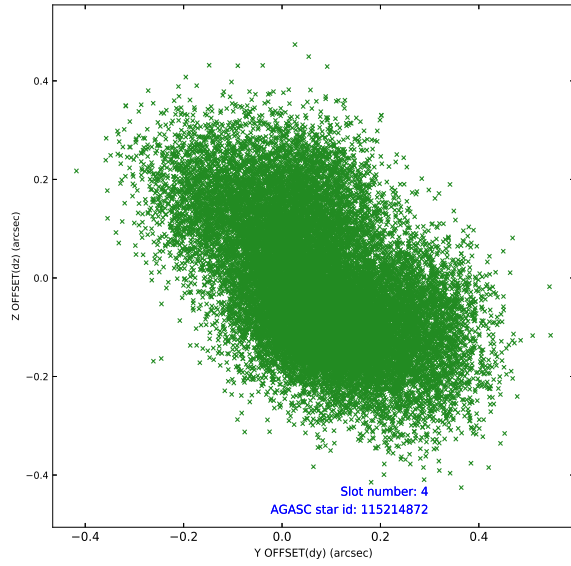
2.4.1 Slot 3



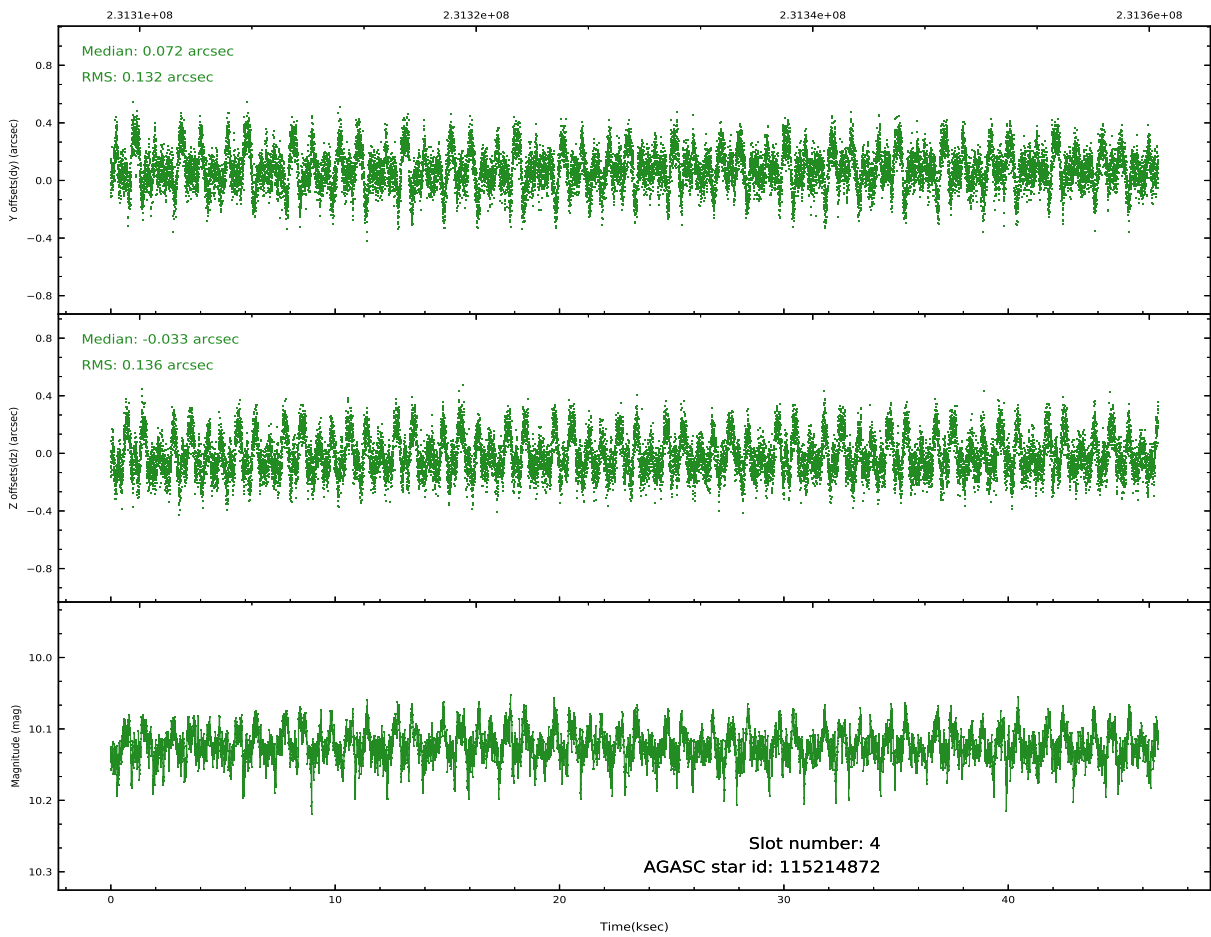
Time (s)



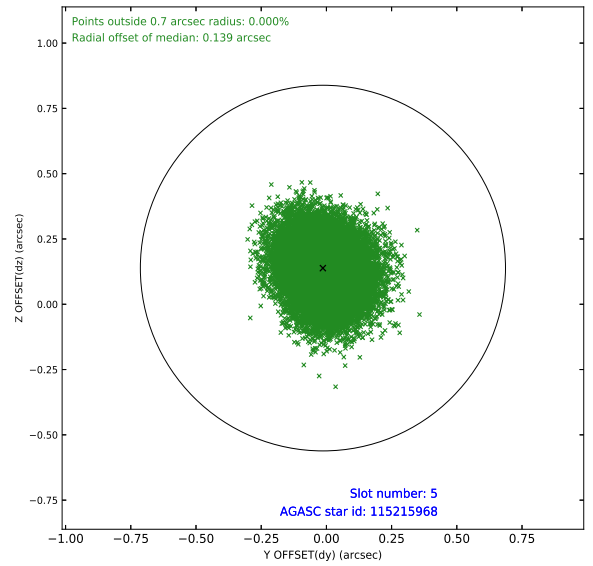
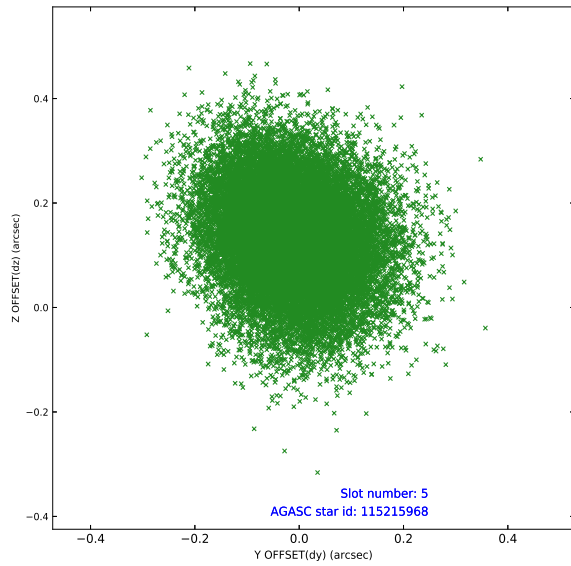
2.4.2 Slot 4



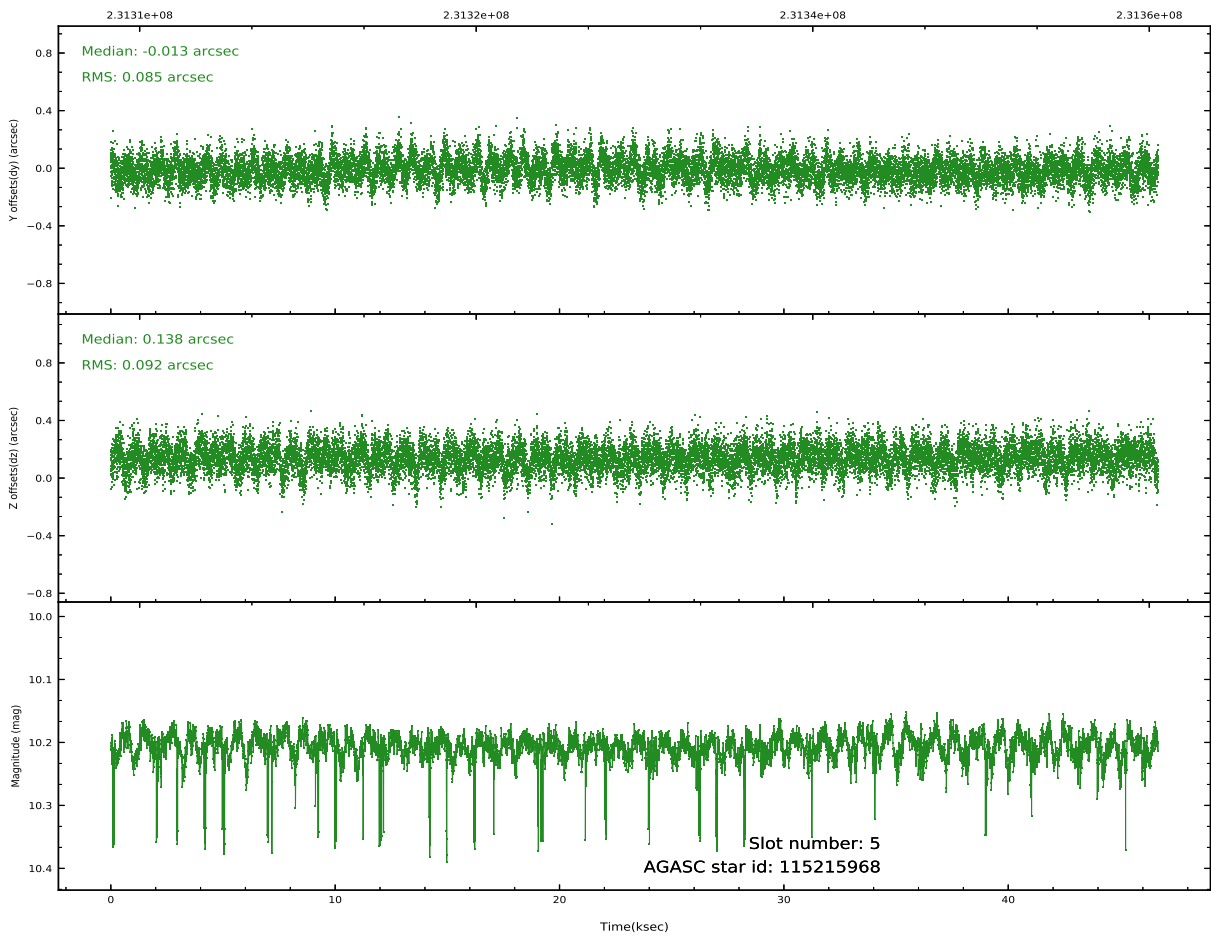
Time (s)



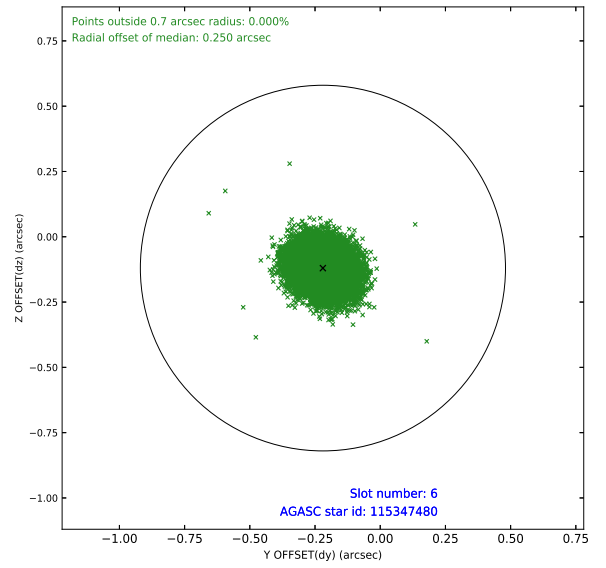
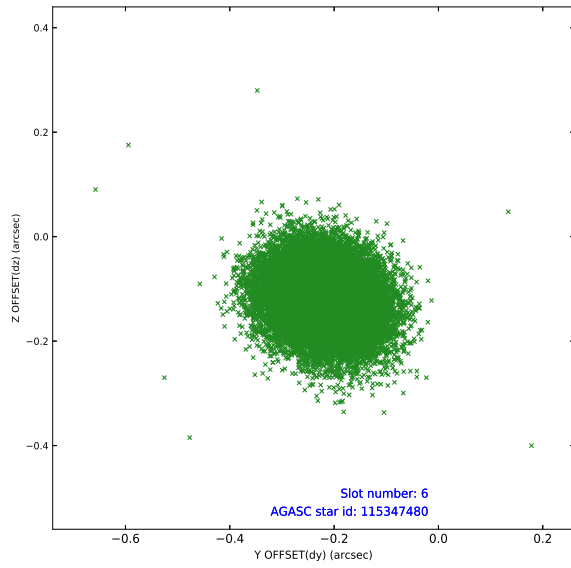
2.4.3 Slot 5



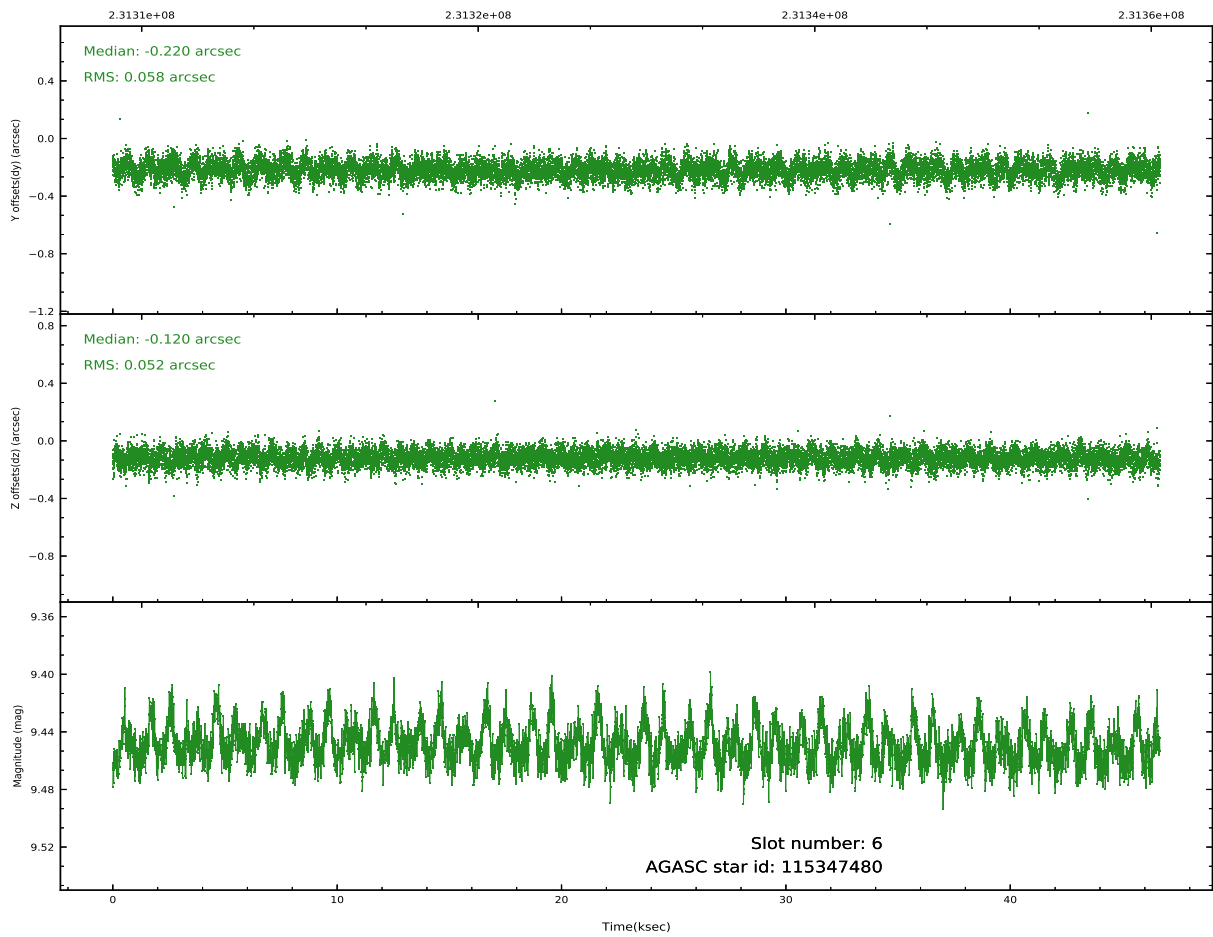
Time (s)



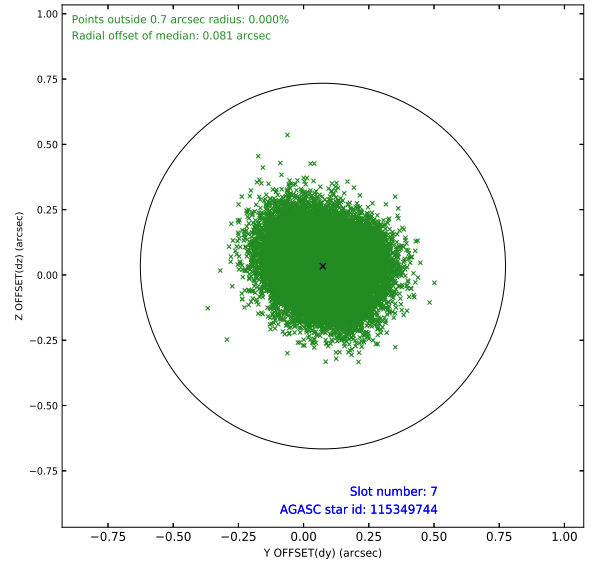
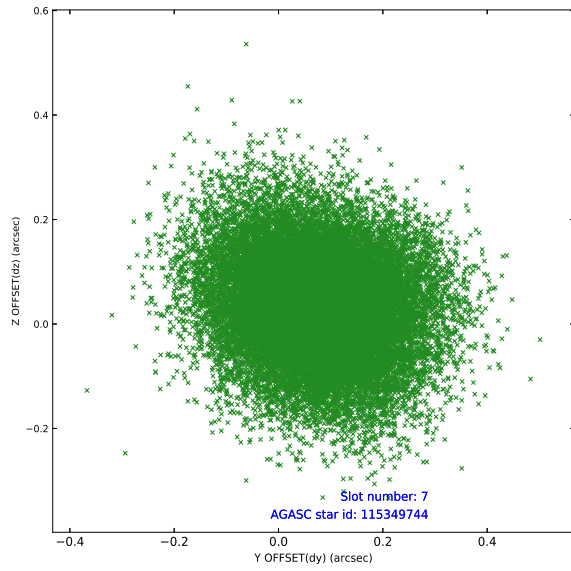
2.4.4 Slot 6



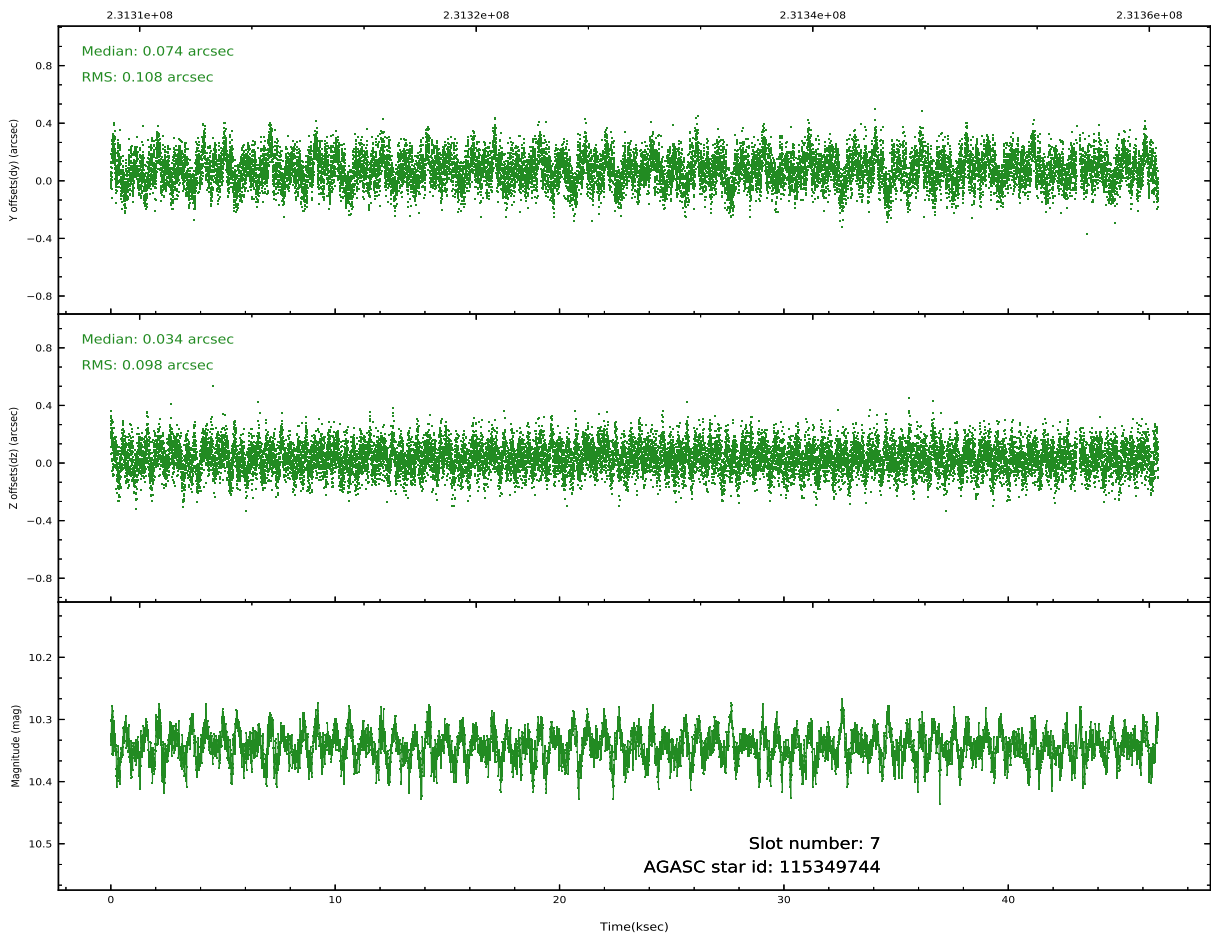
Time (s)



2.4.5 Slot 7

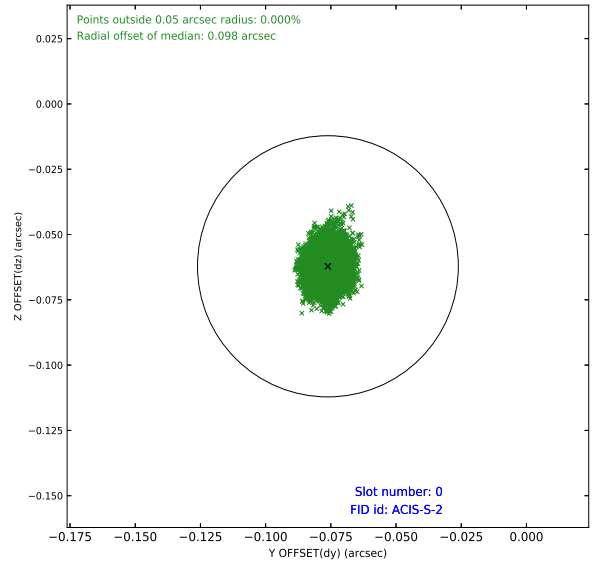
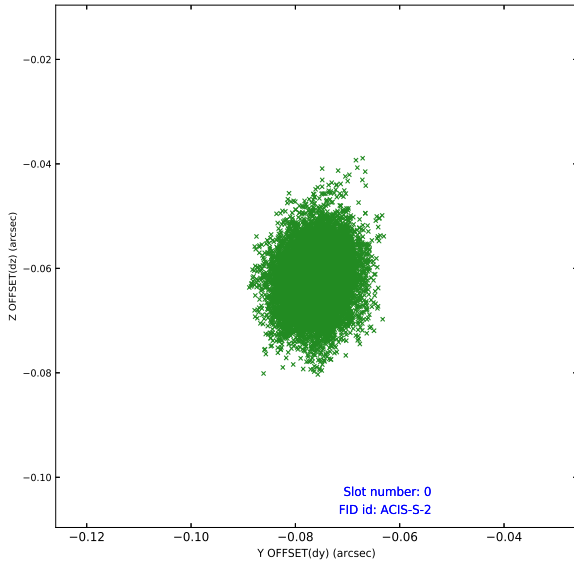


Time (s)

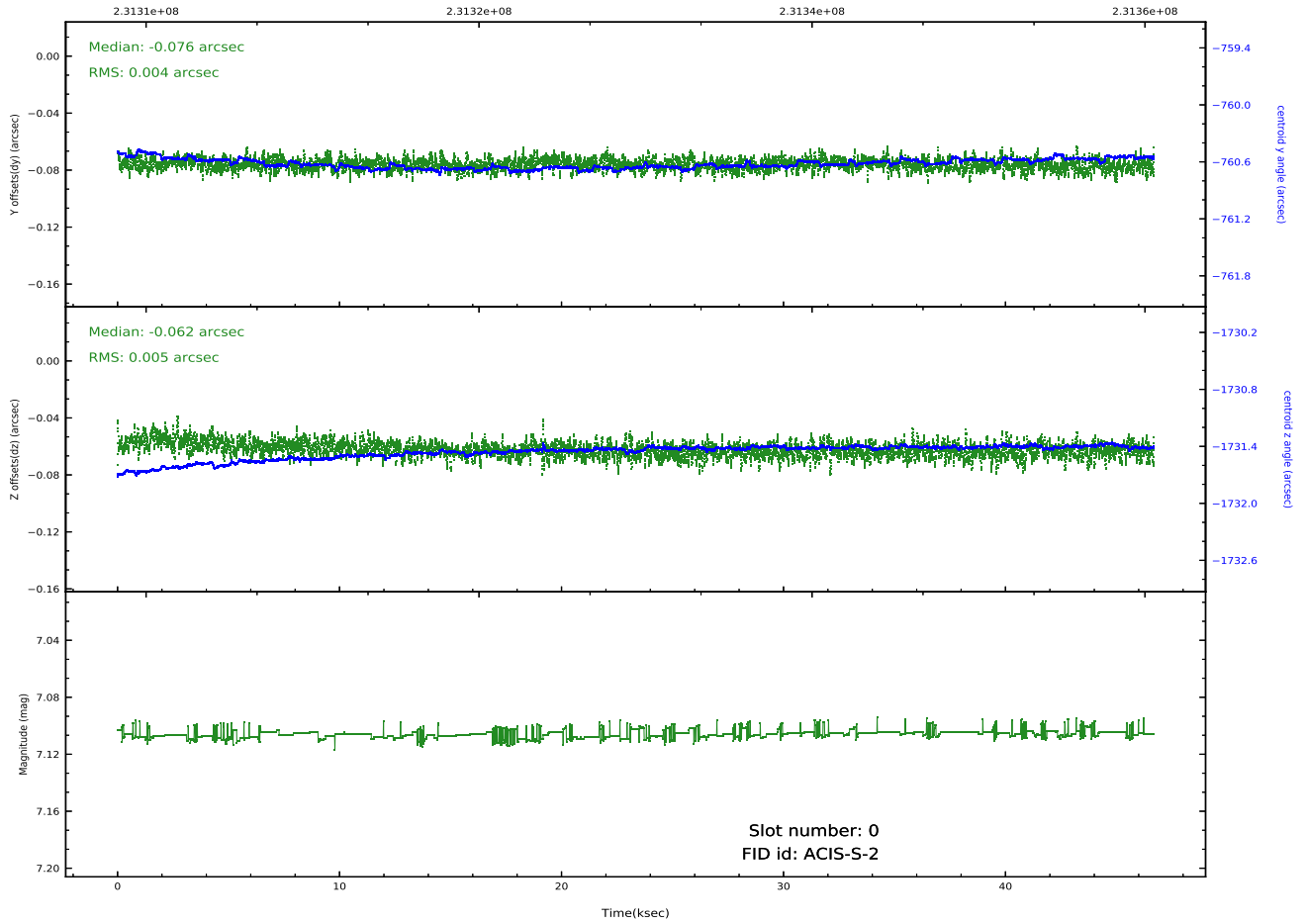


2.5 FID Slots

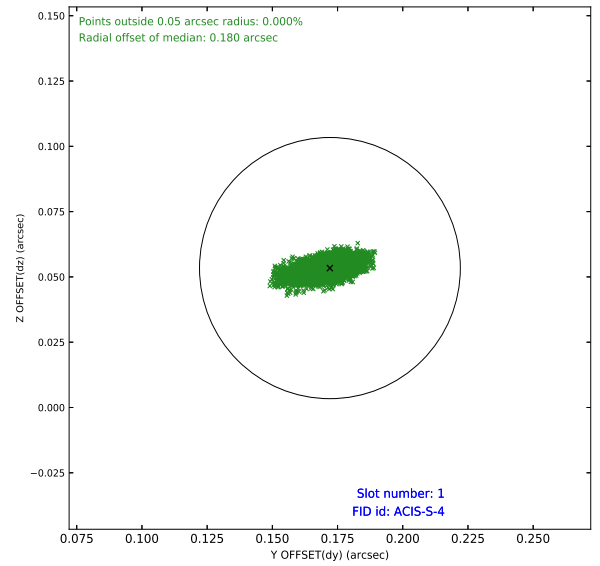
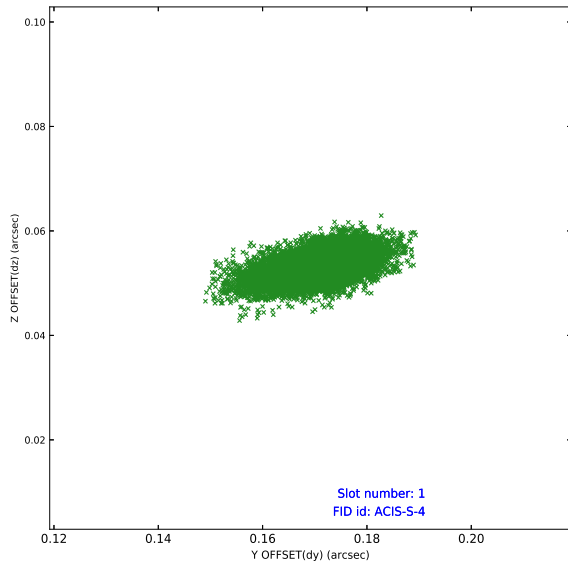
2.5.1 Slot 0



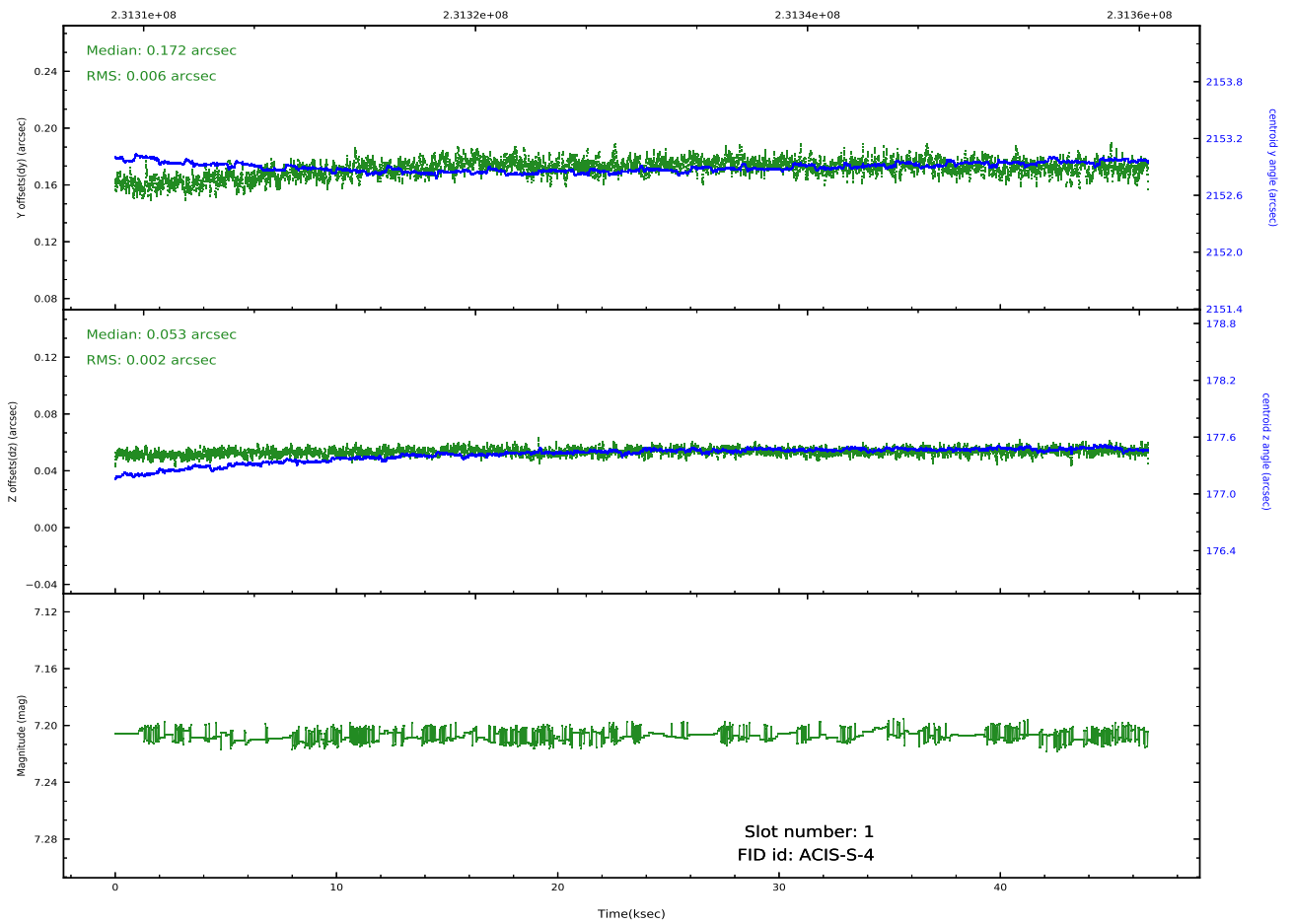
Time (s)



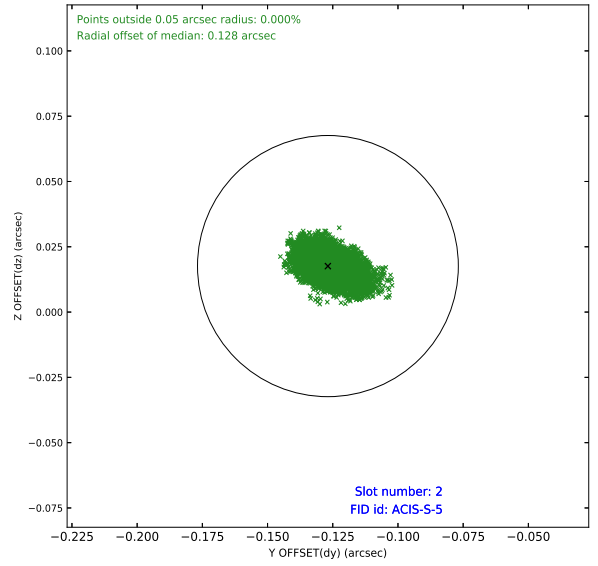
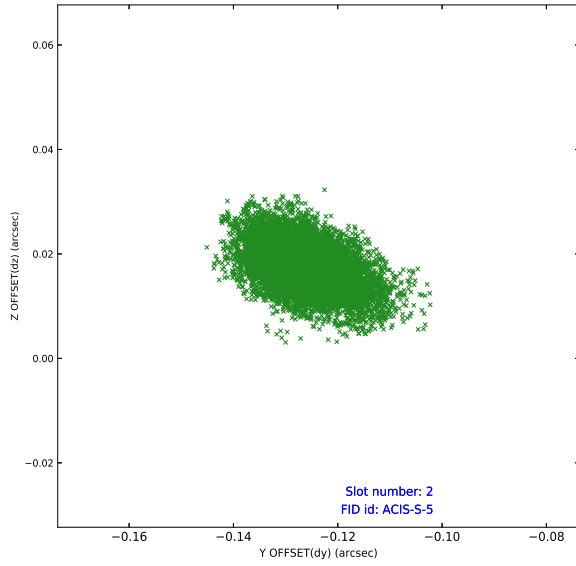
2.5.2 Slot 1



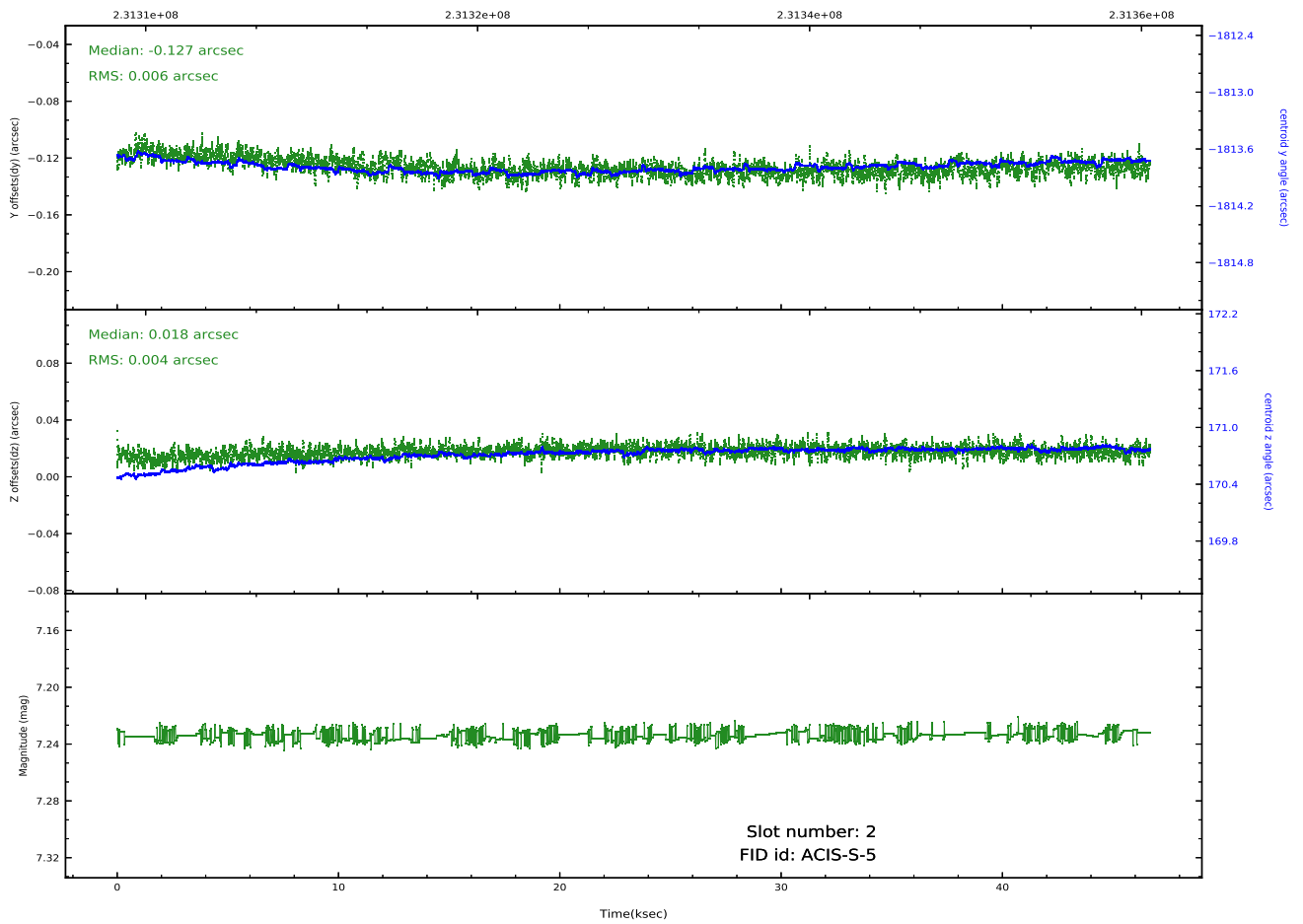
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.67519

A.2 Comments