

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4471 - L2 Version 4
Chandra X-Ray Center

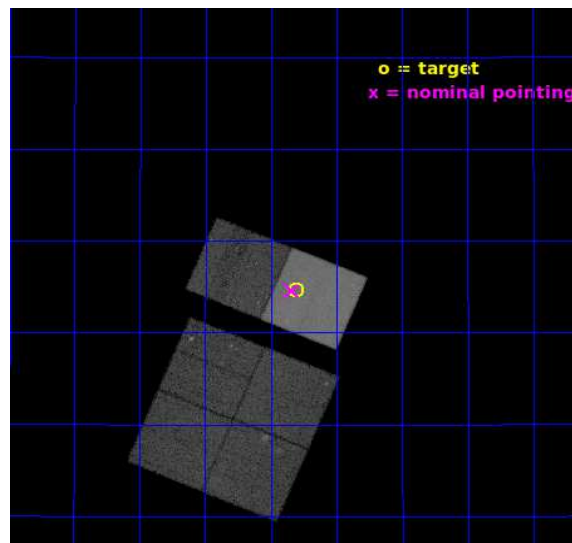
L2 Processing Date : Oct 5 2020

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1 Front

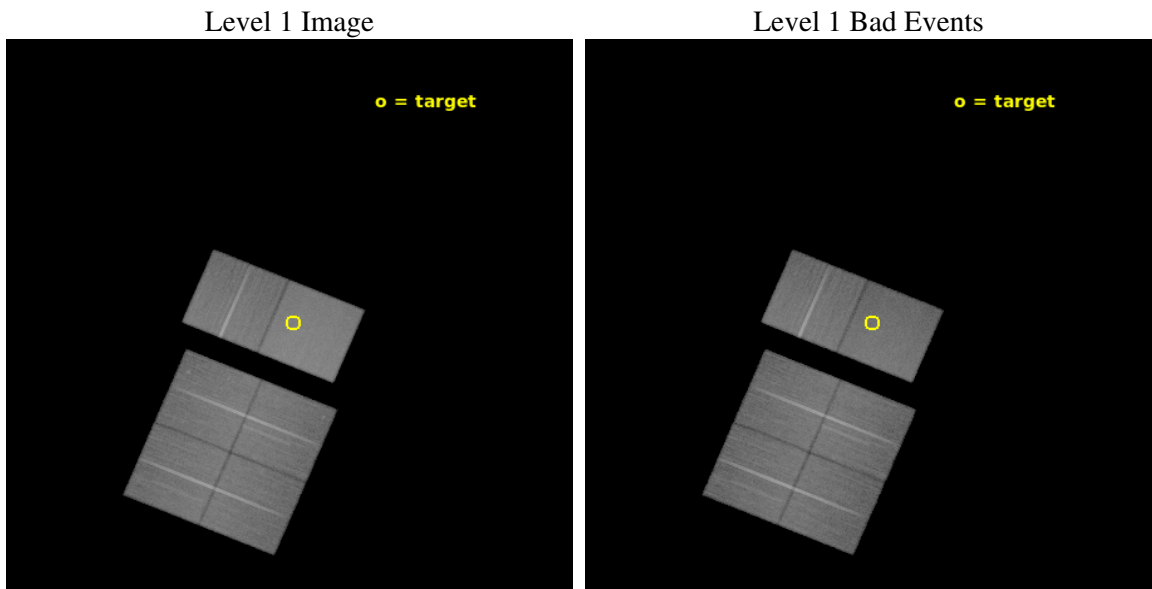
seq_num	200240	Sequence number
obs_id	4471	Observation id
title	AGE AND TEMPERATURE DEPENDENCE OF X-RAY ACTIVITY AT THE COOL END OF THE MAIN-SEQUENCE	Proposal title
observer	Beate Stelzer	Principal investigator
object	HD 130948 BC	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	222.575417	Observer's specified target RA [deg]
dec_targ	23.911667	Observer's specified target Dec [deg]
ra_nom	222.5849606025	Nominal RA [deg]
dec_nom	23.909779716178	Nominal Dec [deg]
roll_nom	22.654020657112	Nominal Roll [deg]
revision	4	Processing version of data
ontime	41743.999844491	Sum of GTIs [s]
livetime	41215.412183241	Livetime [s]
ontime0	41743.999844491	Sum of GTIs [s]
ontime1	41740.75898385	Sum of GTIs [s]
ontime2	41743.999844491	Sum of GTIs [s]
ontime3	41743.999844491	Sum of GTIs [s]
ontime6	41743.999844491	Sum of GTIs [s]
ontime7	41743.999844491	Sum of GTIs [s]
l2events	356396	Number of level 2 events



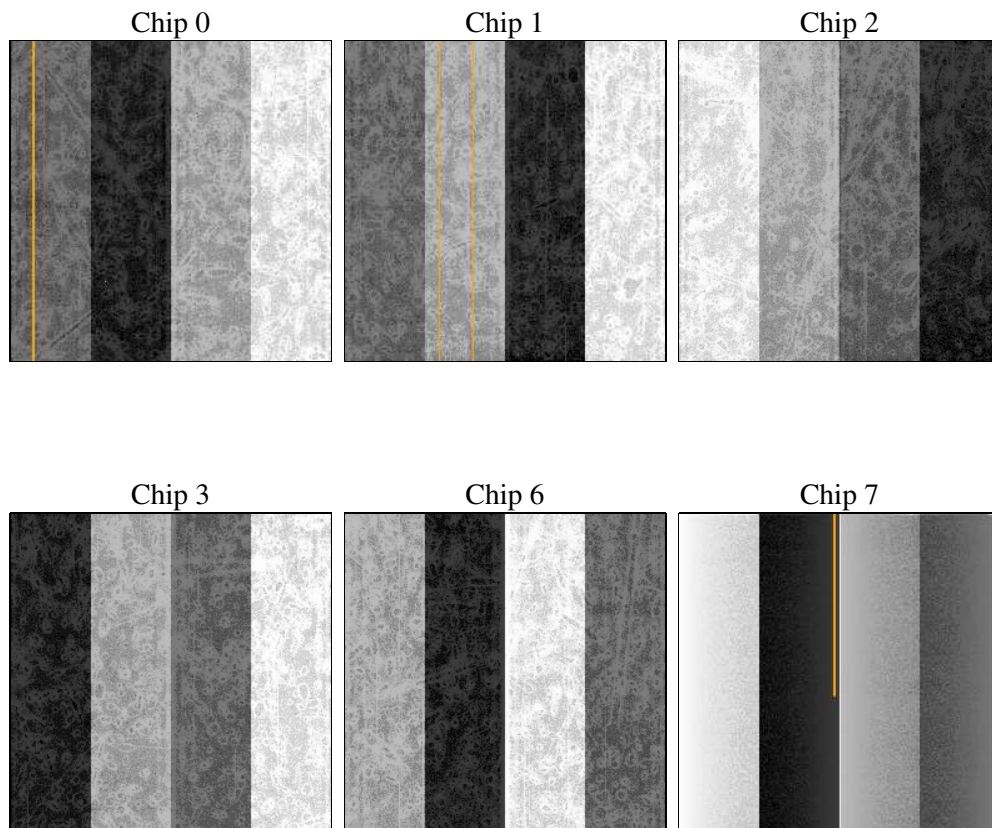
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	41569.118000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	41743.999844491	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	41743.999844491	Sum of GTIs [s]
date	2020-10-05T06:26:08	Date and time of file creation	ontime1	41740.75898385	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	41743.999844491	Sum of GTIs [s]
			ontime3	41743.999844491	Sum of GTIs [s]
			ontime6	41743.999844491	Sum of GTIs [s]
			ontime7	41743.999844491	Sum of GTIs [s]
			l1events	2093766	Number of level 1 events

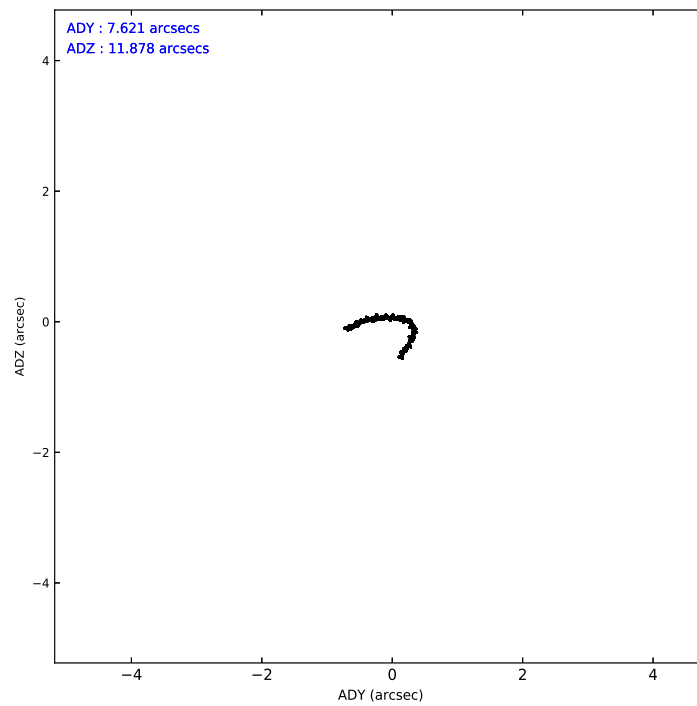
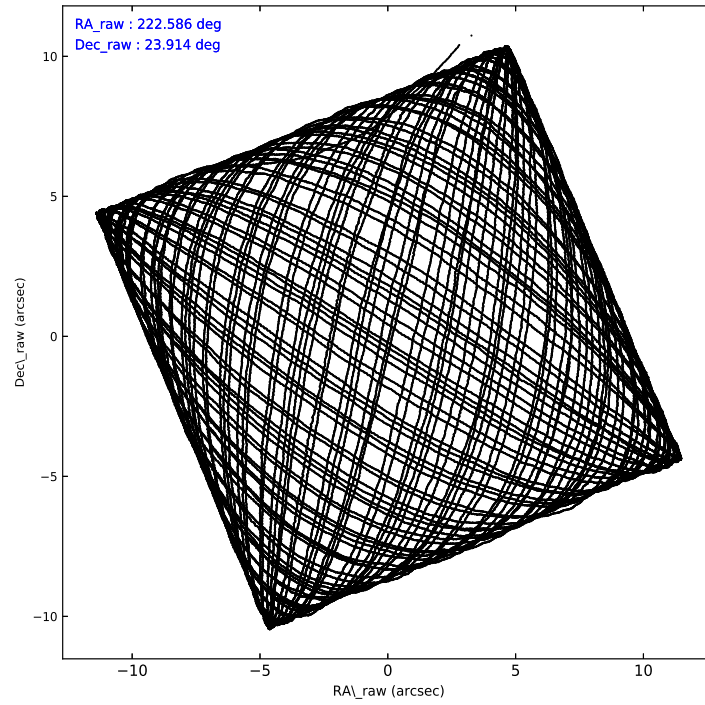
2.1.4 Events

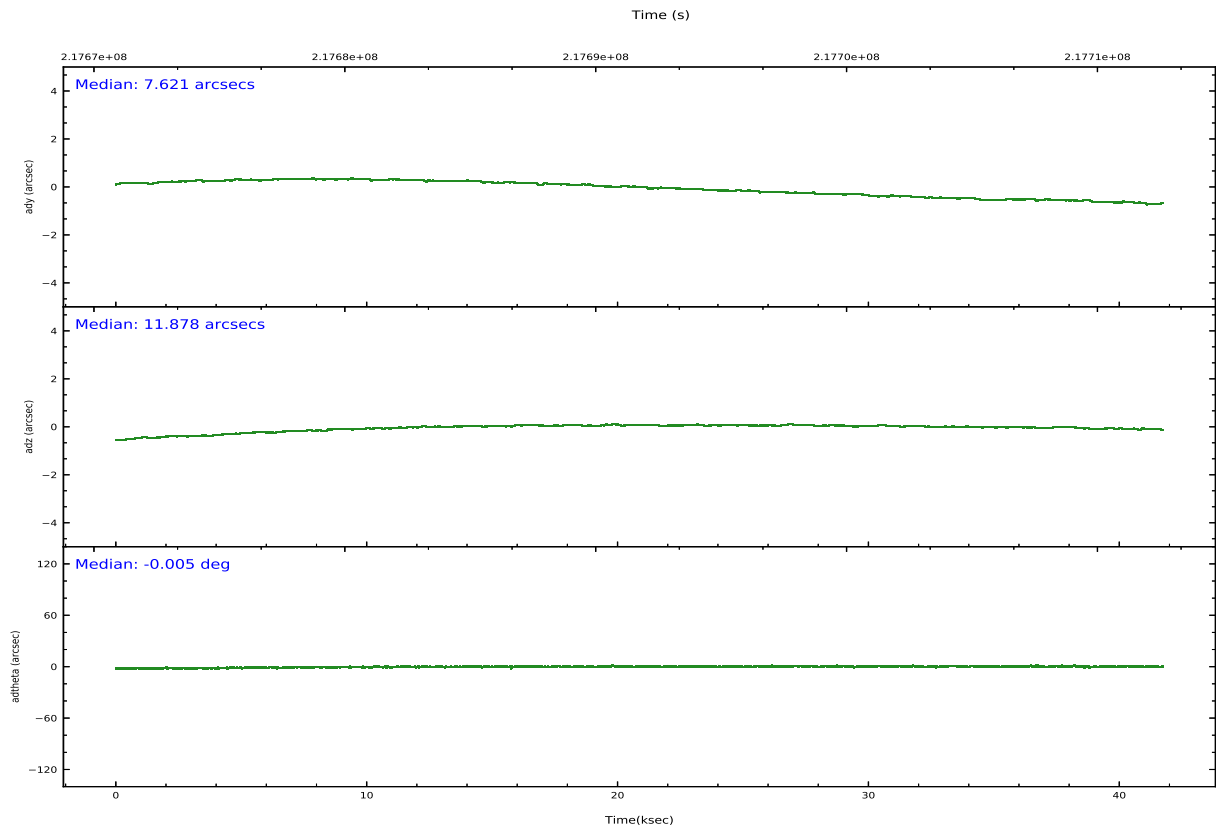
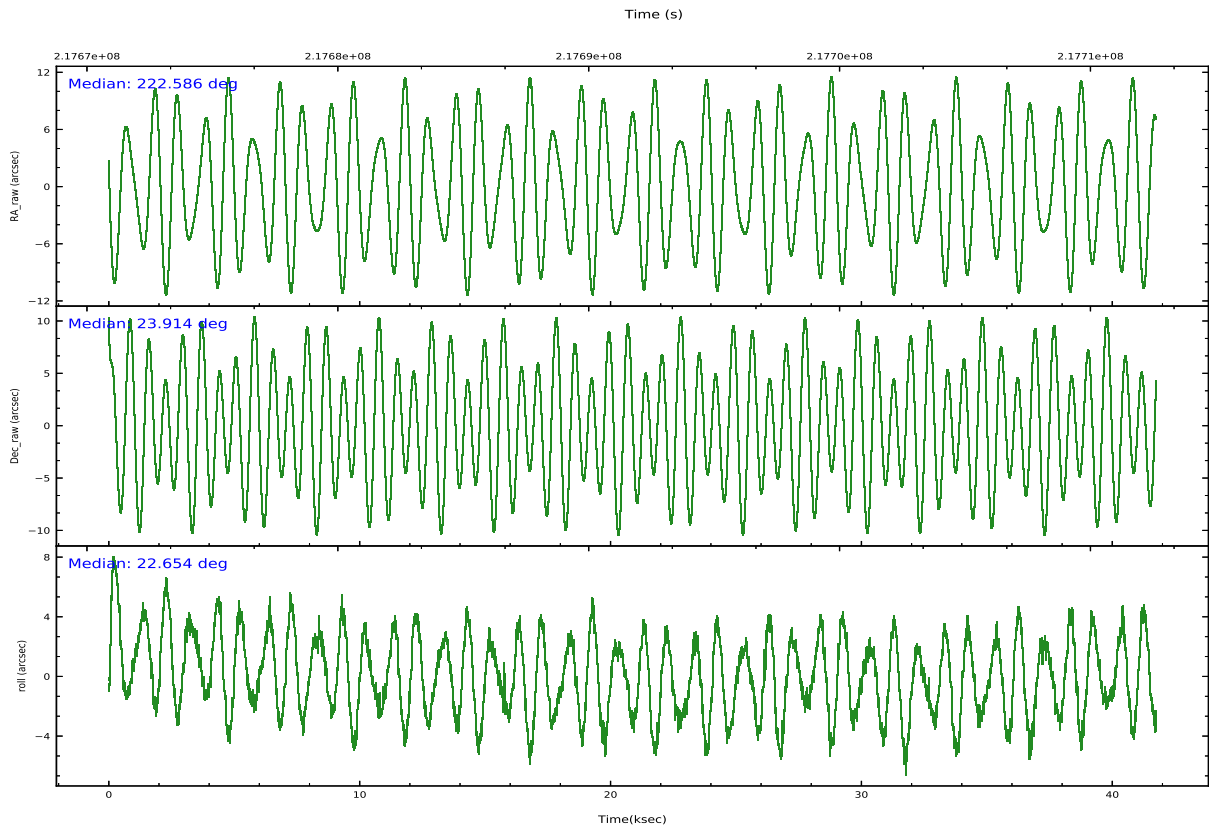
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	322327	304207	332441	328544	344315	461932	grade 0 events	16689	16407	18013	17151	15918	20276
rejected events	282920	263828	293508	290528	305507	267953		5%	5%	5%	5%	4%	4%
rejected %	87%	86%	88%	88%	88%	58%	grade 1 events	199	159	218	218	173	820
								0%	0%	0%	0%	0%	0%
							grade 2 events	8771	8911	7977	7203	8216	39799
								2%	2%	2%	2%	2%	8%
							grade 3 events	3987	4027	3625	3715	3776	17854
								1%	1%	1%	1%	1%	3%
							grade 4 events	3626	3974	3636	3837	3673	17610
								1%	1%	1%	1%	1%	3%
							grade 5 events	13712	13718	12510	14604	15308	44053
								4%	4%	3%	4%	4%	9%
							grade 6 events	7085	7857	6381	6844	7926	101954
								2%	2%	1%	2%	2%	22%
							grade 7 events	268258	249154	280081	274972	289325	219566
								83%	81%	84%	83%	84%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	222.568003	222.5849606025	Subarray requested	NONE	NONE
[deg] Pointing Dec	23.891896	23.909779716178	Alternating exposures requested	N	N
[deg] Pointing Roll	22.502999	22.654020657112	[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)	217671051.184000	217669533.203			
Observation start date	2004-11-24T08:09:47	2004-11-24T07:45:33			
[s] Observation end time (MET)	217712620.184000	217712833.81745			
Observation end date	2004-11-24T19:42:36	2004-11-24T19:47:13			
Read mode	TIMED	TIMED			

2.3 Aspect



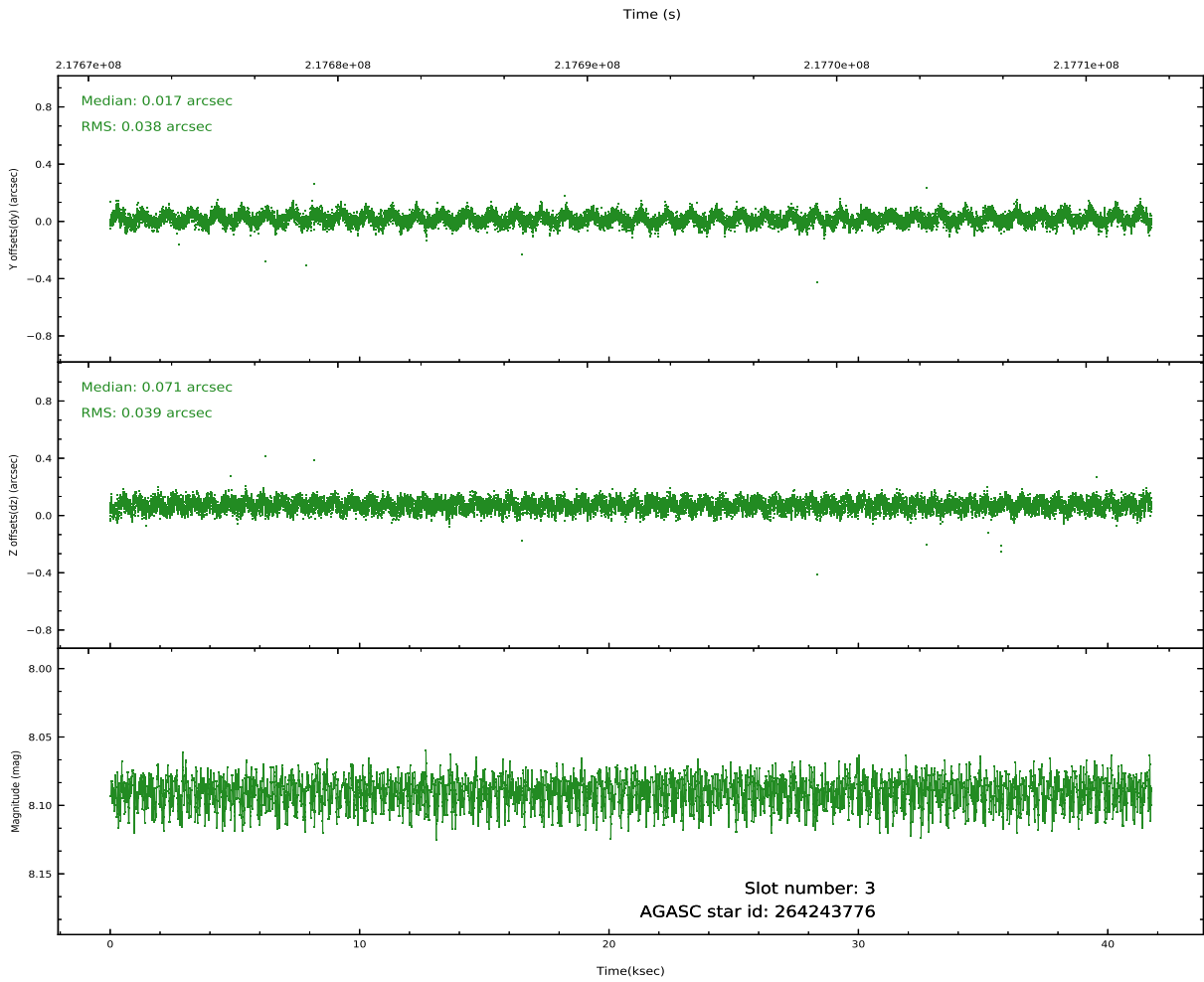
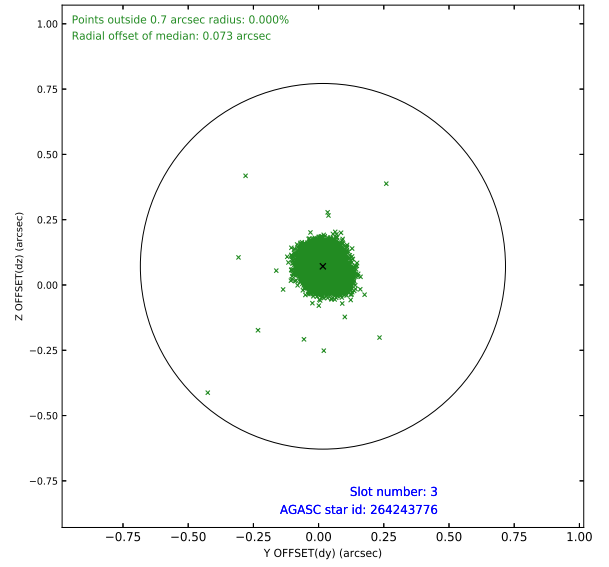
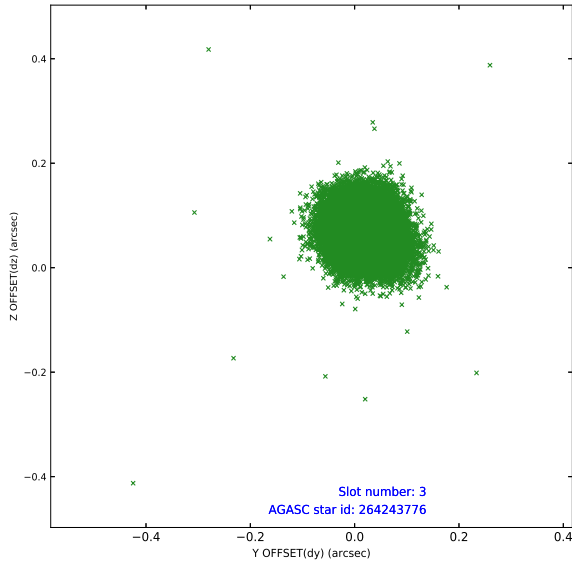


Slot Statistics

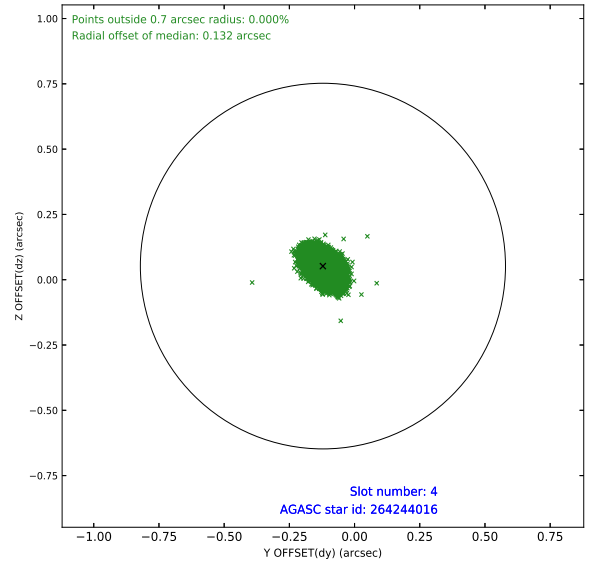
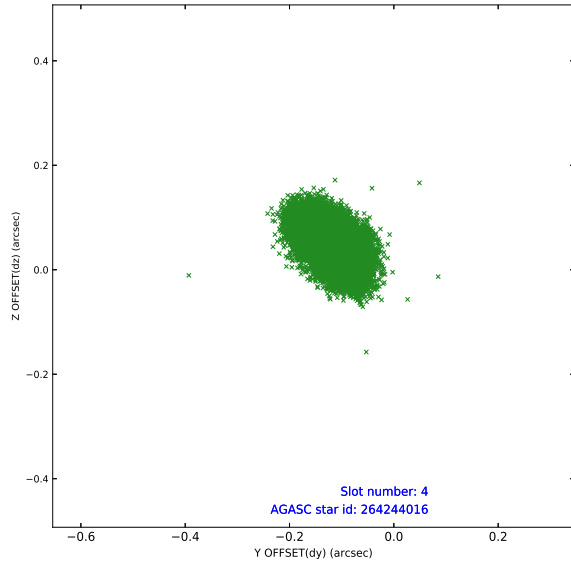
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	10181	1.000	-0.050	-0.058	0.010	0.015	0.000000	0.000000	-760.33	-1733
1	FID		ACIS-S-4	7.20	10183	1.000	0.128	0.040	0.013	0.020	0.000000	0.000000	2153.09	175
2	FID		ACIS-S-5	7.23	10183	1.000	-0.111	0.027	0.017	0.029	0.000000	0.000000	-1813.25	169
3	GUIDE	used	264243776	8.09	20355	1.000	0.017	0.071	0.058	0.092	222.025139	23.495408	-2200.58	-629
4	GUIDE	used	264244016	7.11	20366	1.000	-0.121	0.052	0.050	0.083	223.121774	23.801362	1561.78	-995
5	GUIDE	used	264247808	8.87	20356	1.000	0.038	0.003	0.070	0.113	222.238250	23.559393	-1462.58	-688
6	GUIDE	used	264247840	7.09	20366	1.000	-0.039	-0.162	0.045	0.071	221.913453	24.097555	-1702.08	1511
7	GUIDE	used	264244712	8.90	20358	1.000	0.102	0.035	0.068	0.111	222.948863	24.755978	2341.65	2399

2.4 Star Slots

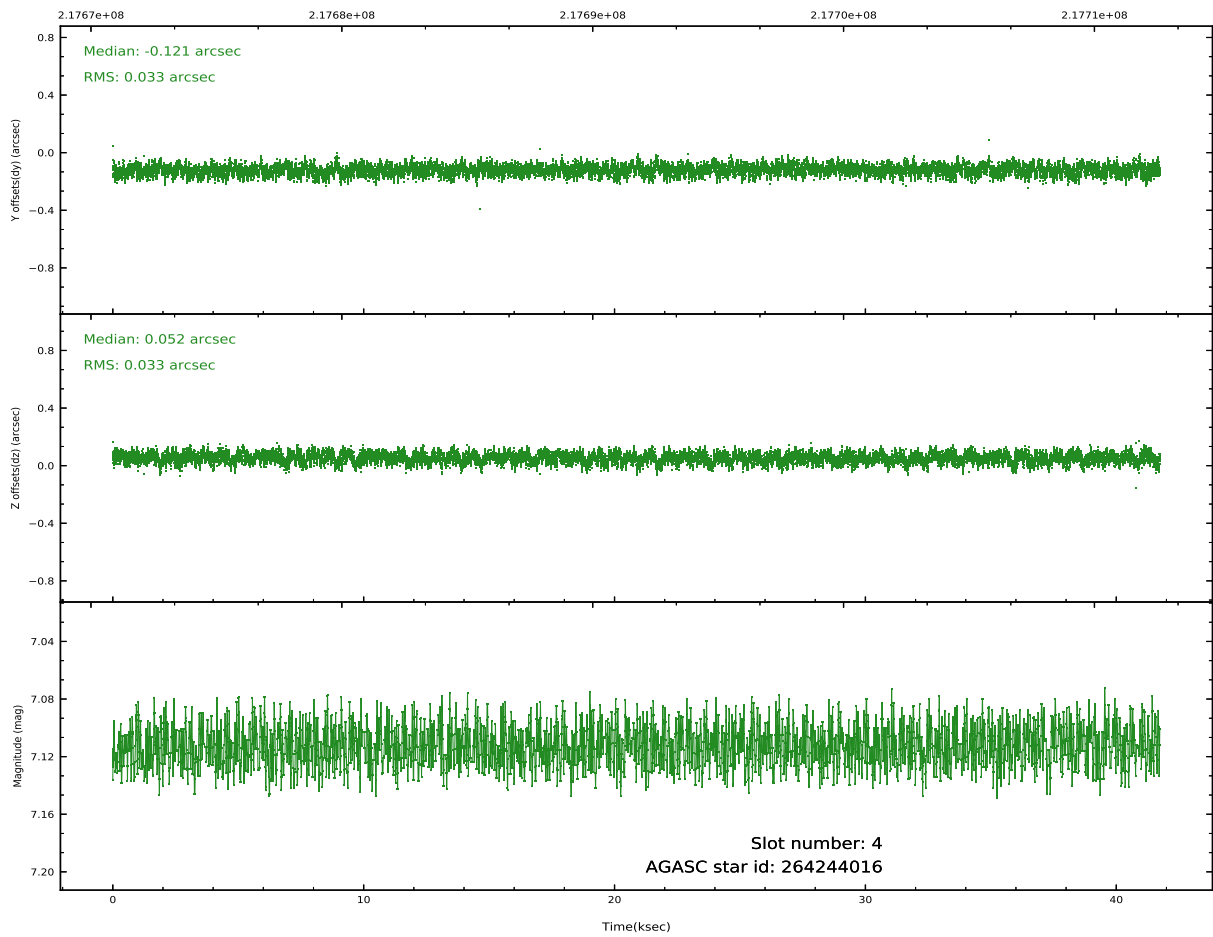
2.4.1 Slot 3



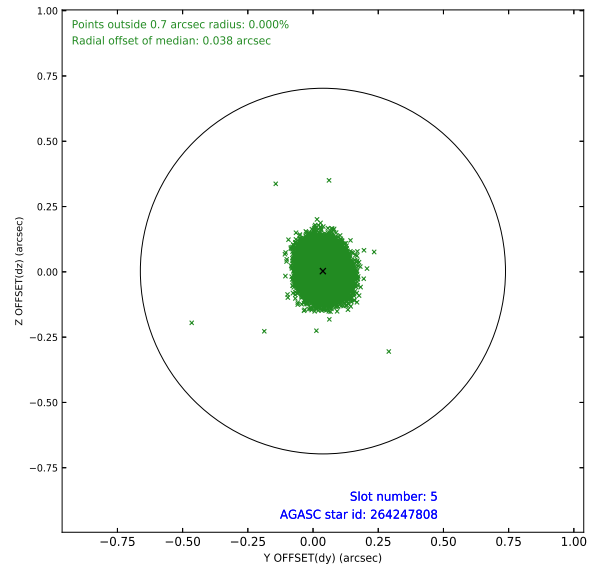
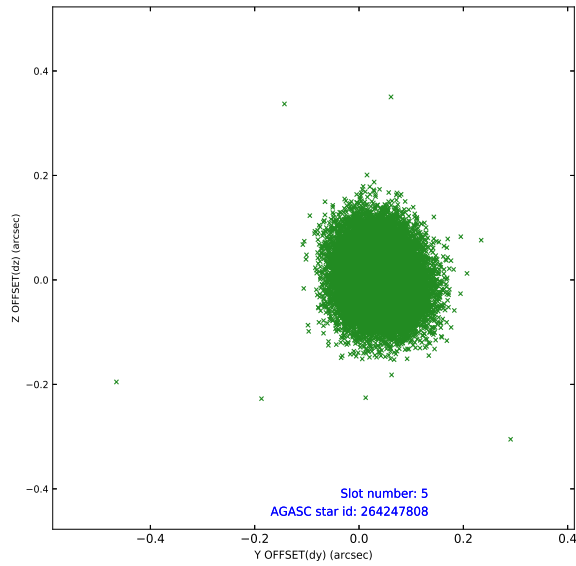
2.4.2 Slot 4



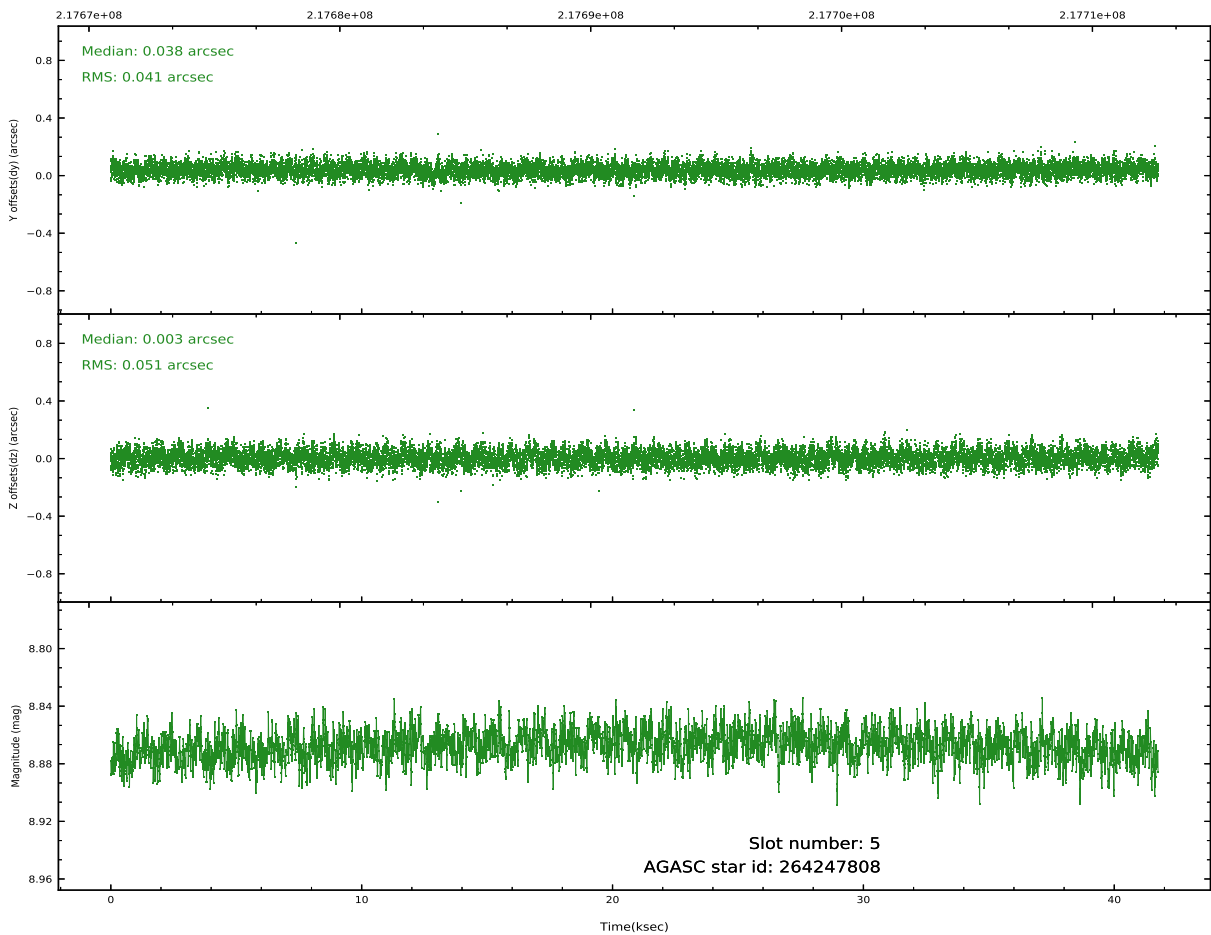
Time (s)



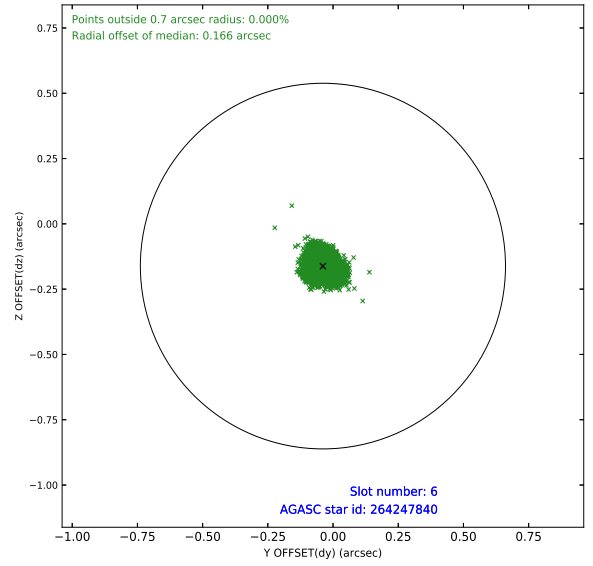
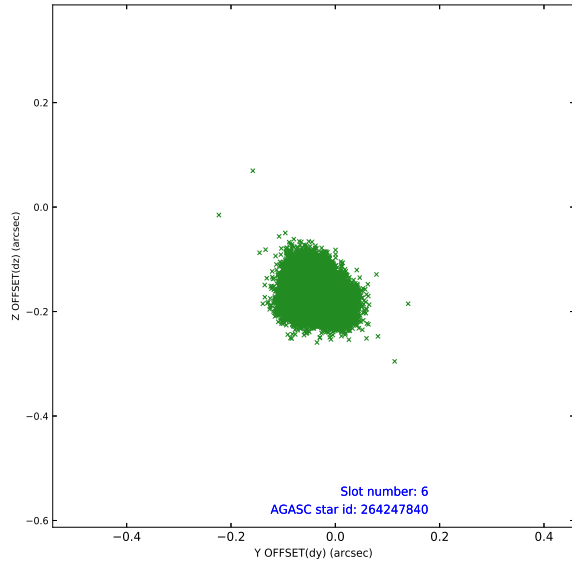
2.4.3 Slot 5



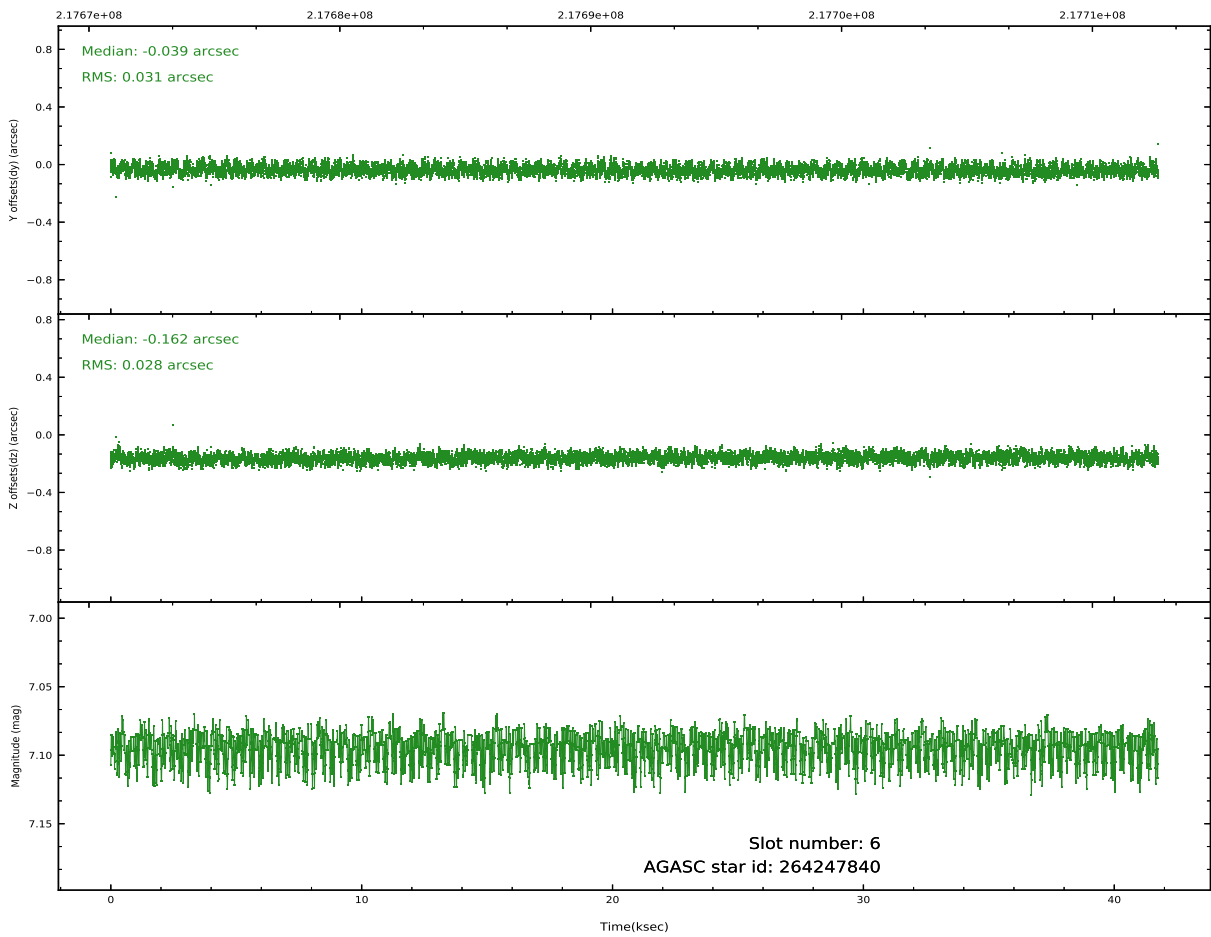
Time (s)



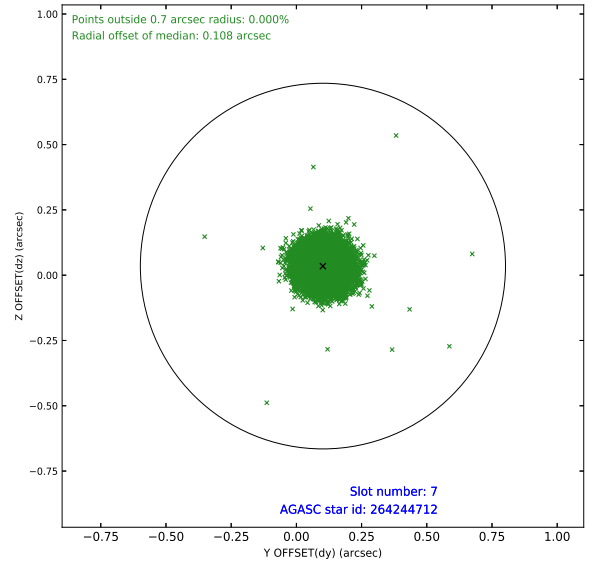
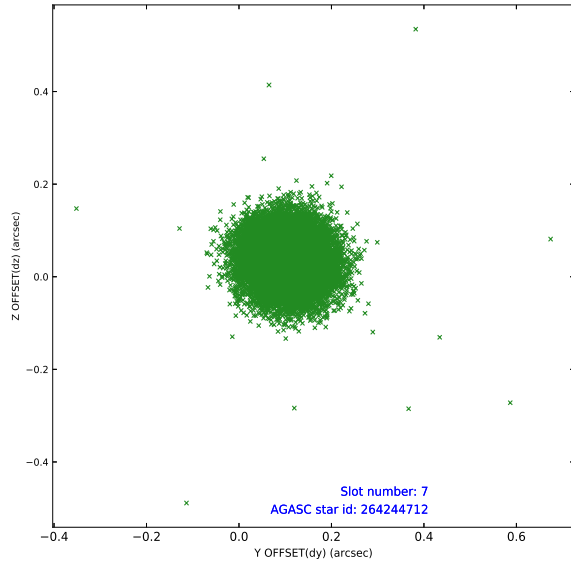
2.4.4 Slot 6



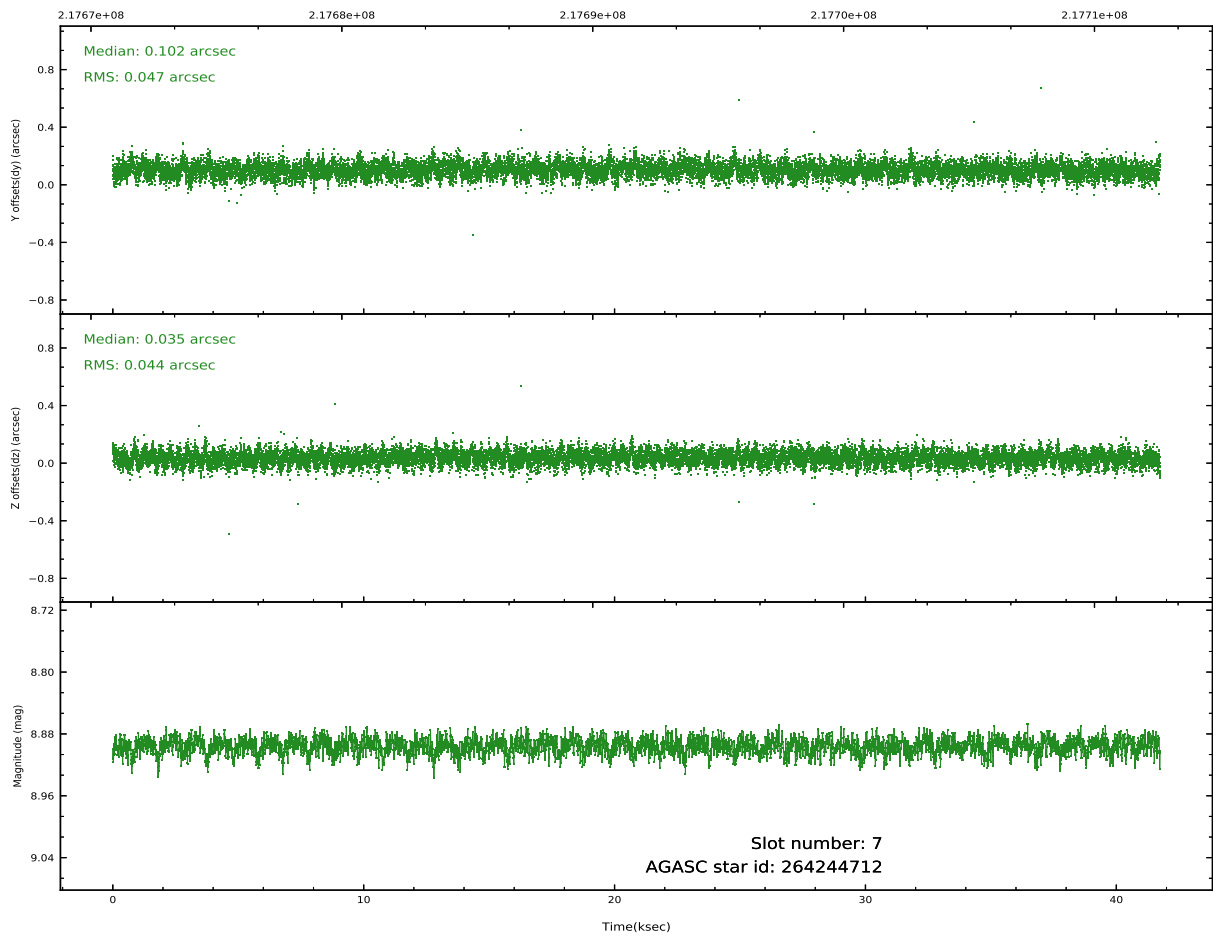
Time (s)



2.4.5 Slot 7

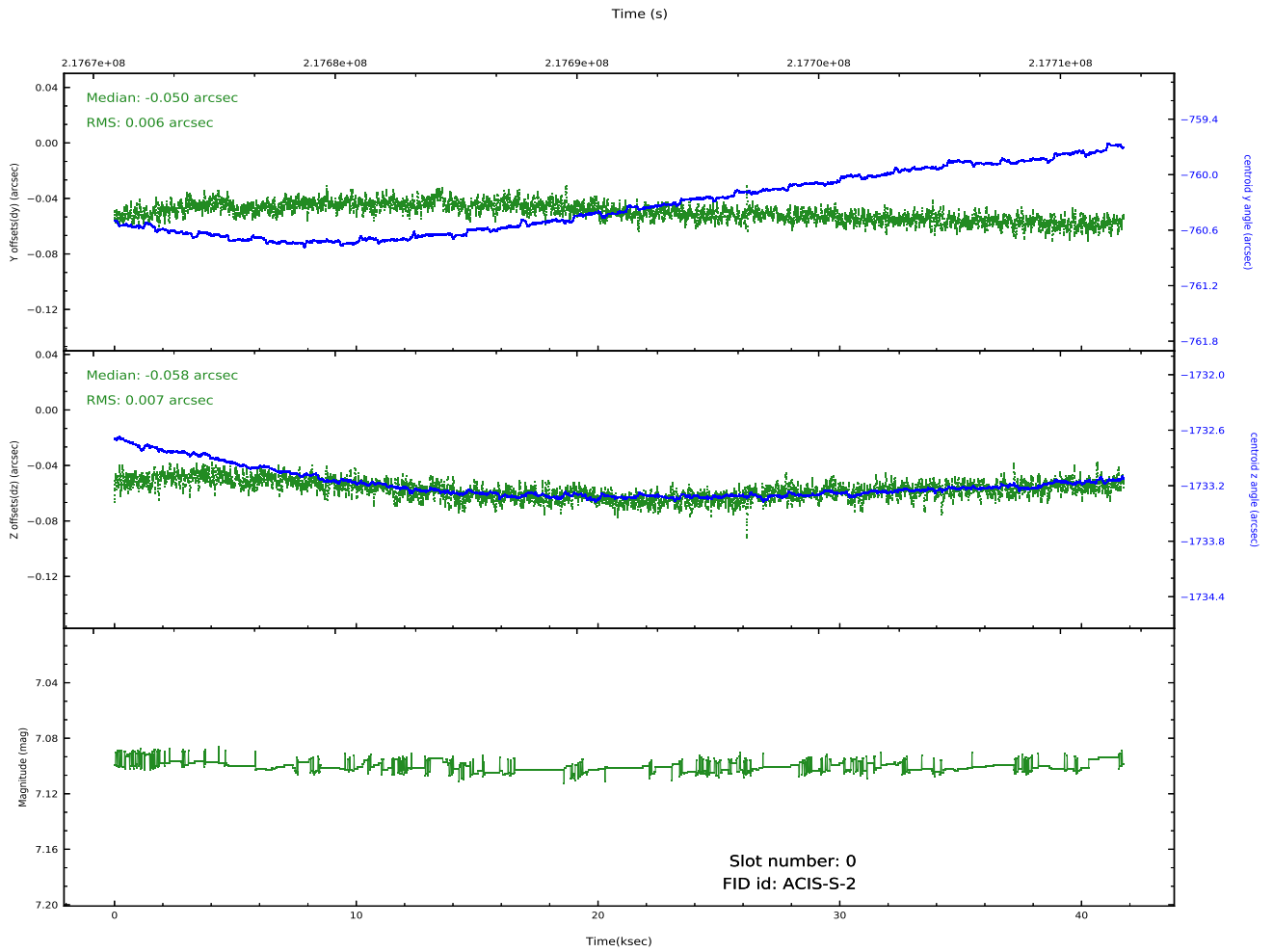
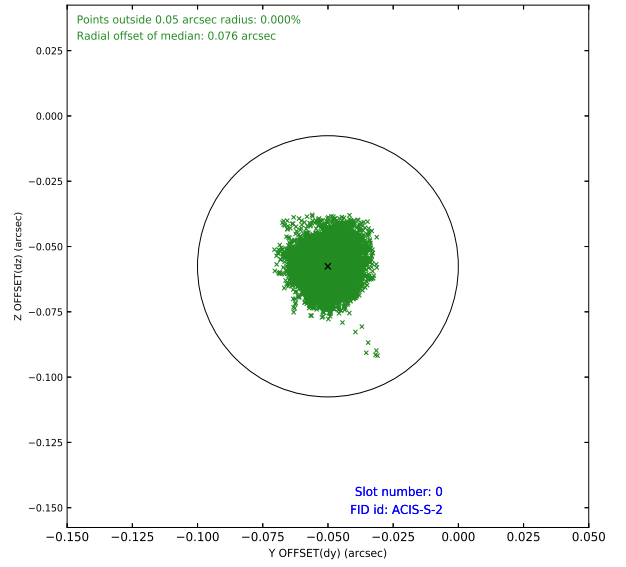
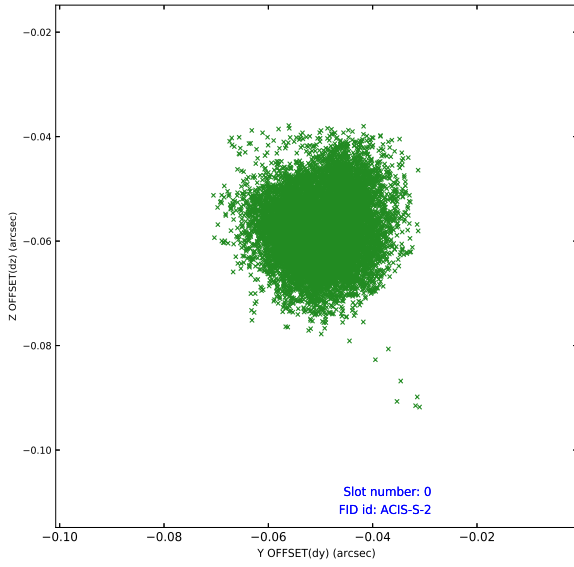


Time (s)

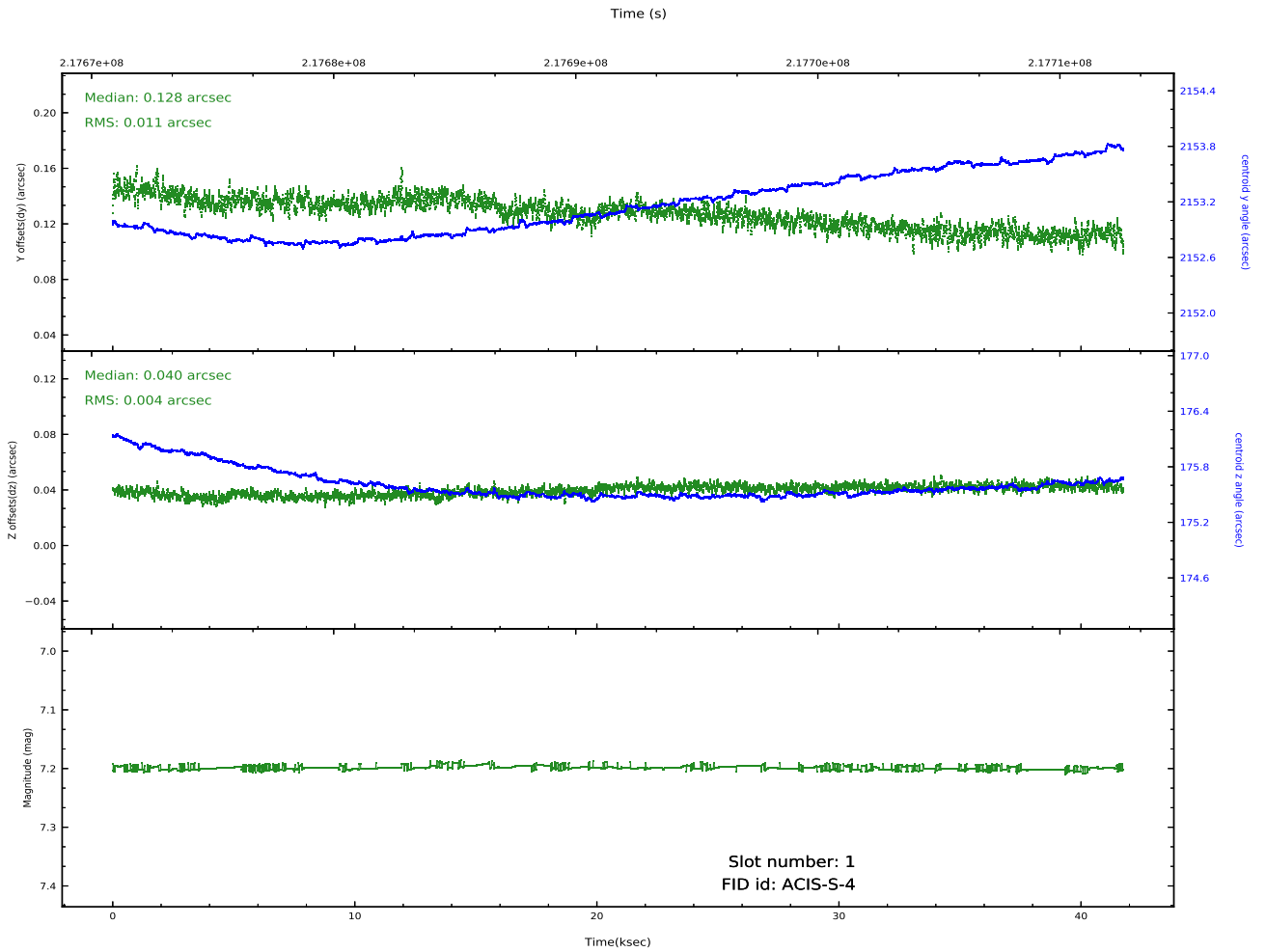
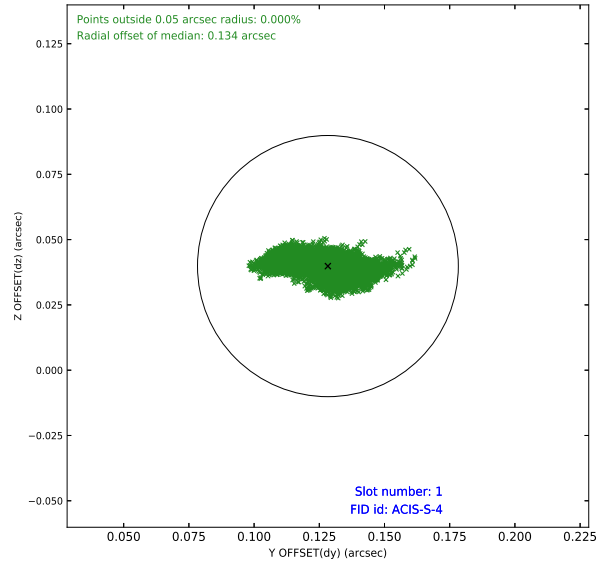
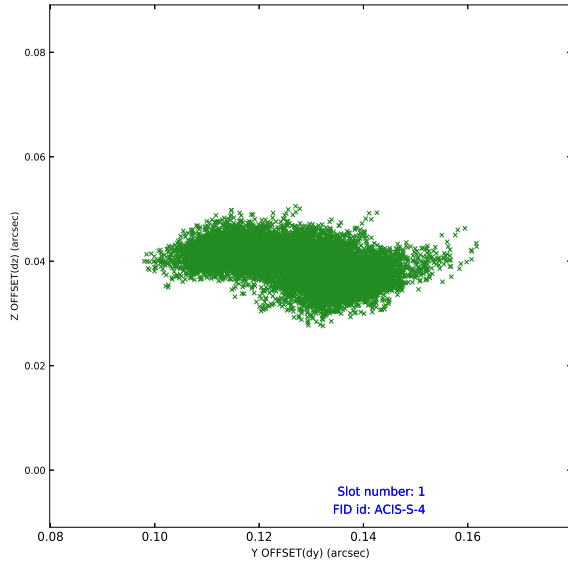


2.5 FID Slots

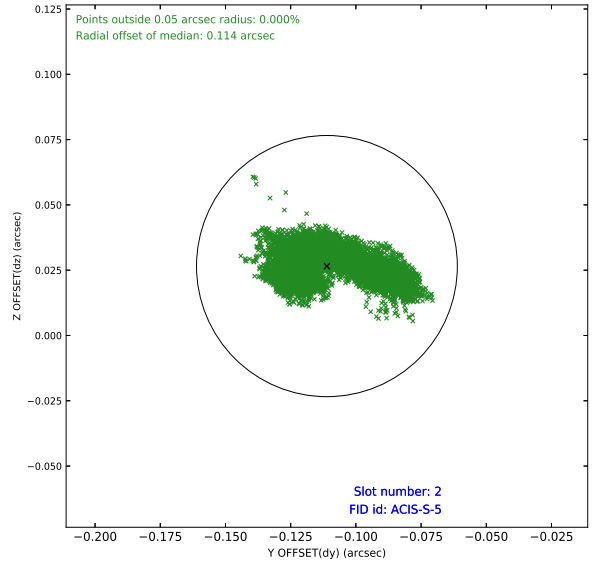
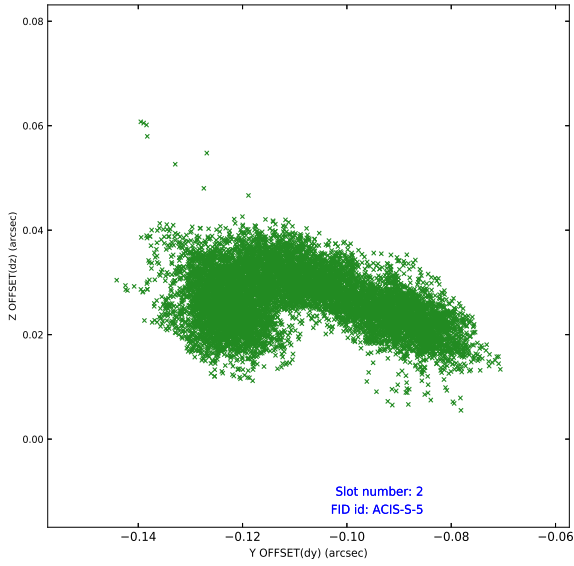
2.5.1 Slot 0



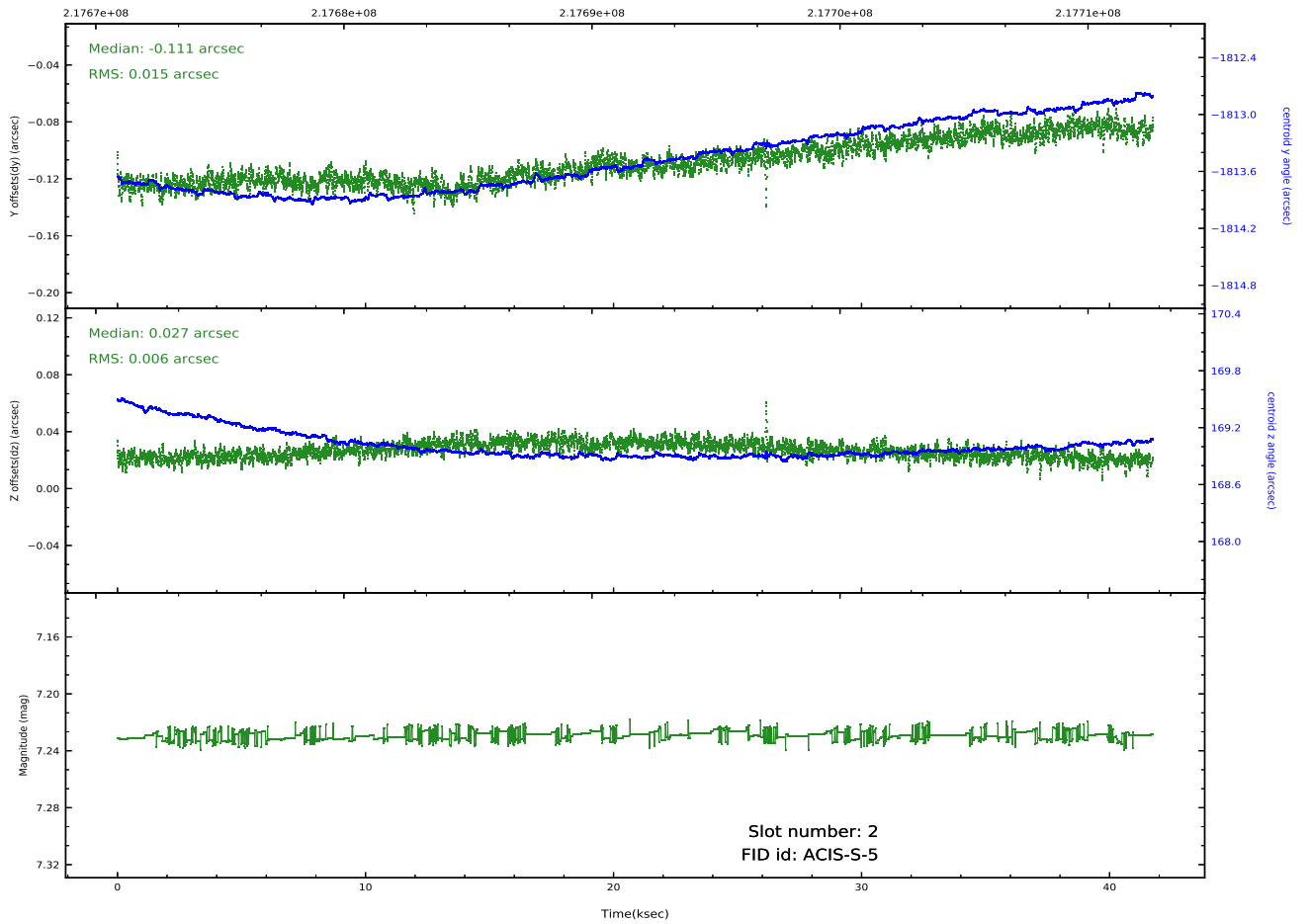
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.74399

A.2 Comments