

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5824 - L2 Version 4
Chandra X-Ray Center

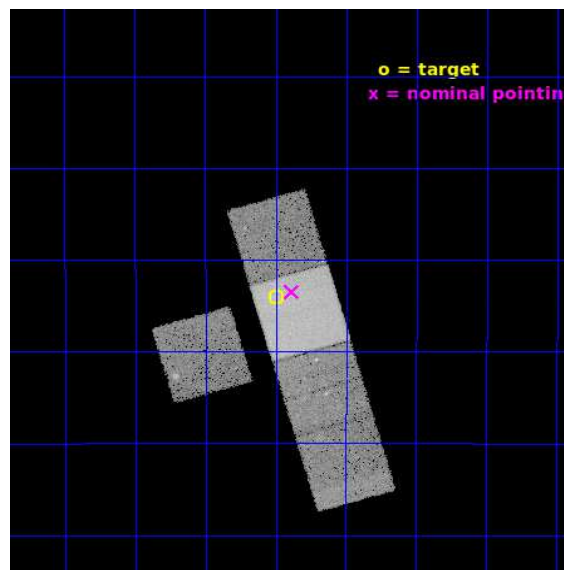
L2 Processing Date : Oct 7 2020

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1 Front

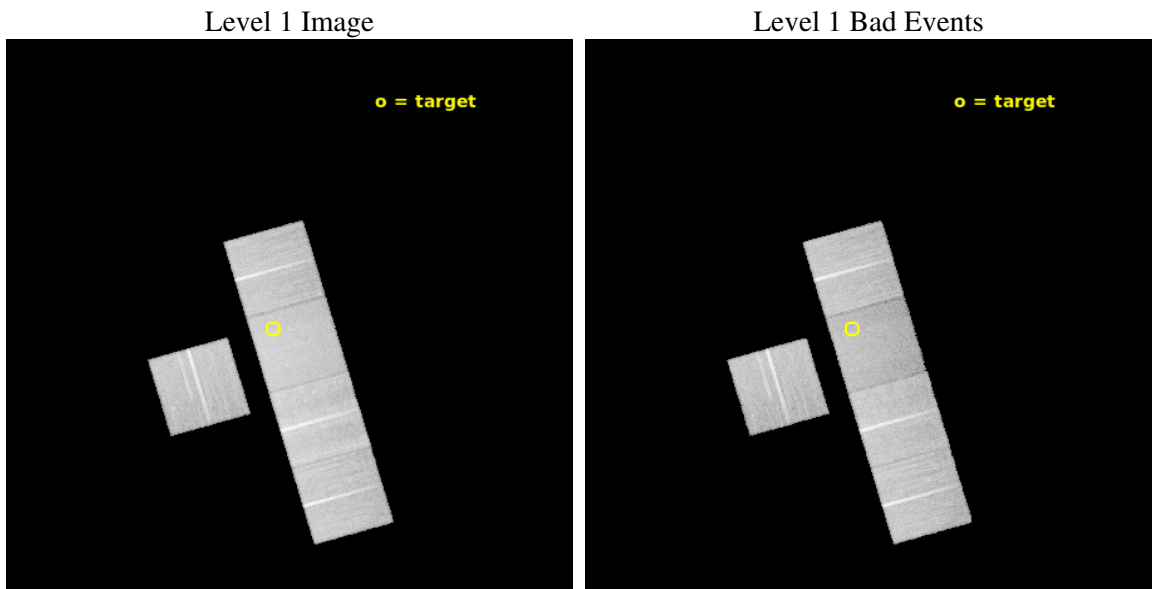
seq_num	800536	Sequence number
obs_id	5824	Observation id
title	First X-ray Observation of Two High Redshift Lensing Clusters from the Optically Selected LCDCS Sample	Proposal title
observer	Gordon Garmire	Principal investigator
object	LCDCS 954	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.12375	Observer's specified target RA [deg]
dec_targ	-11.567778	Observer's specified target Dec [deg]
ra_nom	215.09602905543	Nominal RA [deg]
dec_nom	-11.558010968756	Nominal Dec [deg]
roll_nom	73.821300014917	Nominal Roll [deg]
revision	4	Processing version of data
ontime	29034.558953881	Sum of GTIs [s]
livetime	28655.201066217	Livetime [s]
ontime3	29037.699944139	Sum of GTIs [s]
ontime6	29034.558933944	Sum of GTIs [s]
ontime7	29034.558953881	Sum of GTIs [s]
ontime8	29034.558934003	Sum of GTIs [s]
ontime9	29031.417943716	Sum of GTIs [s]
l2events	158729	Number of level 2 events



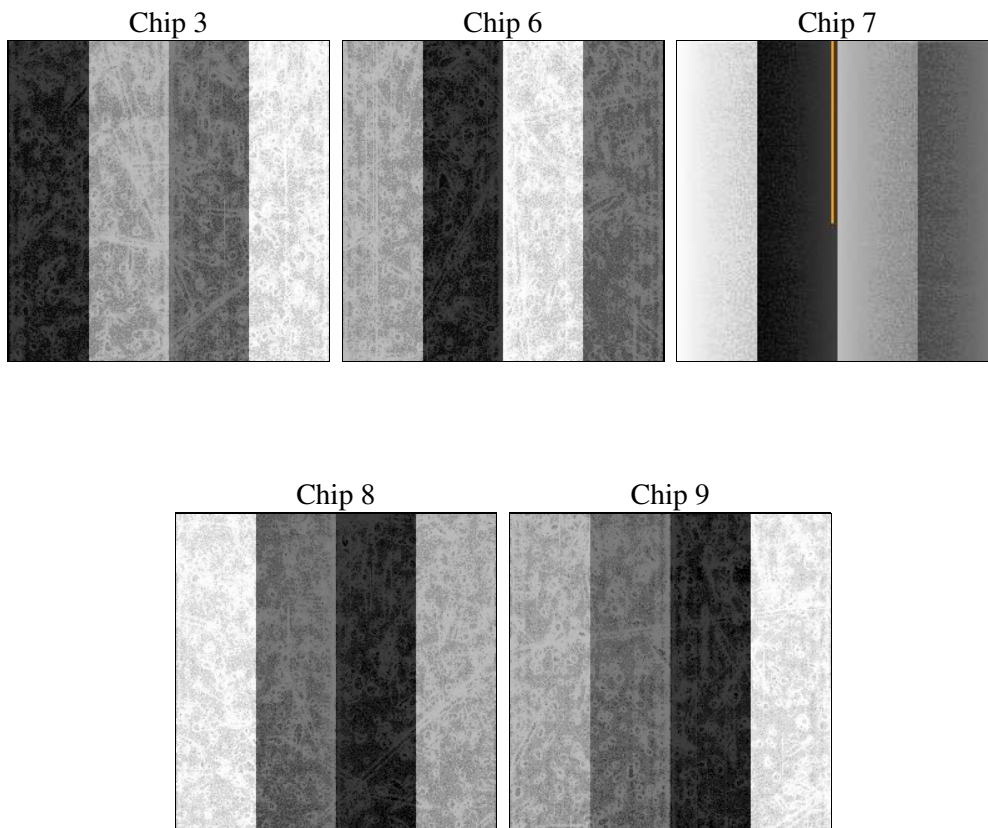
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	29034.558953881	Sum of GTIs [s]
caldbver	4.9.2	 	ontime3	29037.699944139	Sum of GTIs [s]
date	2020-10-07T11:25:50	Date and time of file creation	ontime6	29034.558933944	Sum of GTIs [s]
revision	4	Processing version of data	ontime7	29034.558953881	Sum of GTIs [s]
			ontime8	29034.558934003	Sum of GTIs [s]
			ontime9	29031.417943716	Sum of GTIs [s]
			l1events	979313	Number of level 1 events

2.1.4 Events

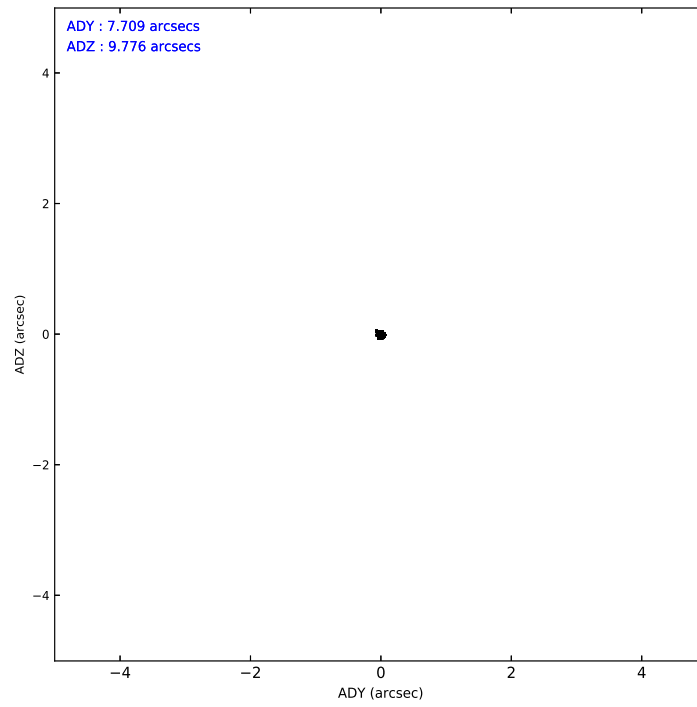
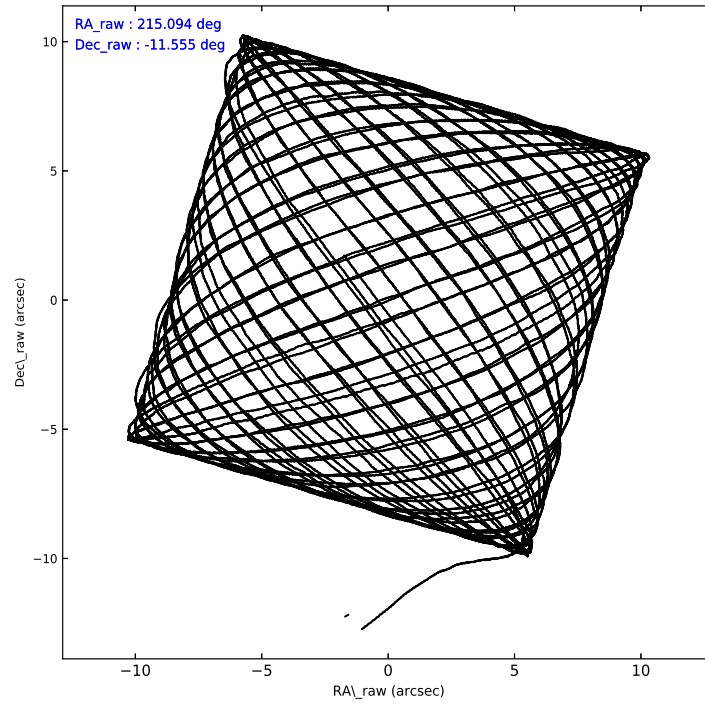
	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	177711	183355	203467	229174	185606
rejected events	160818	164662	111547	175097	165342
rejected %	90%	89%	54%	76%	89%

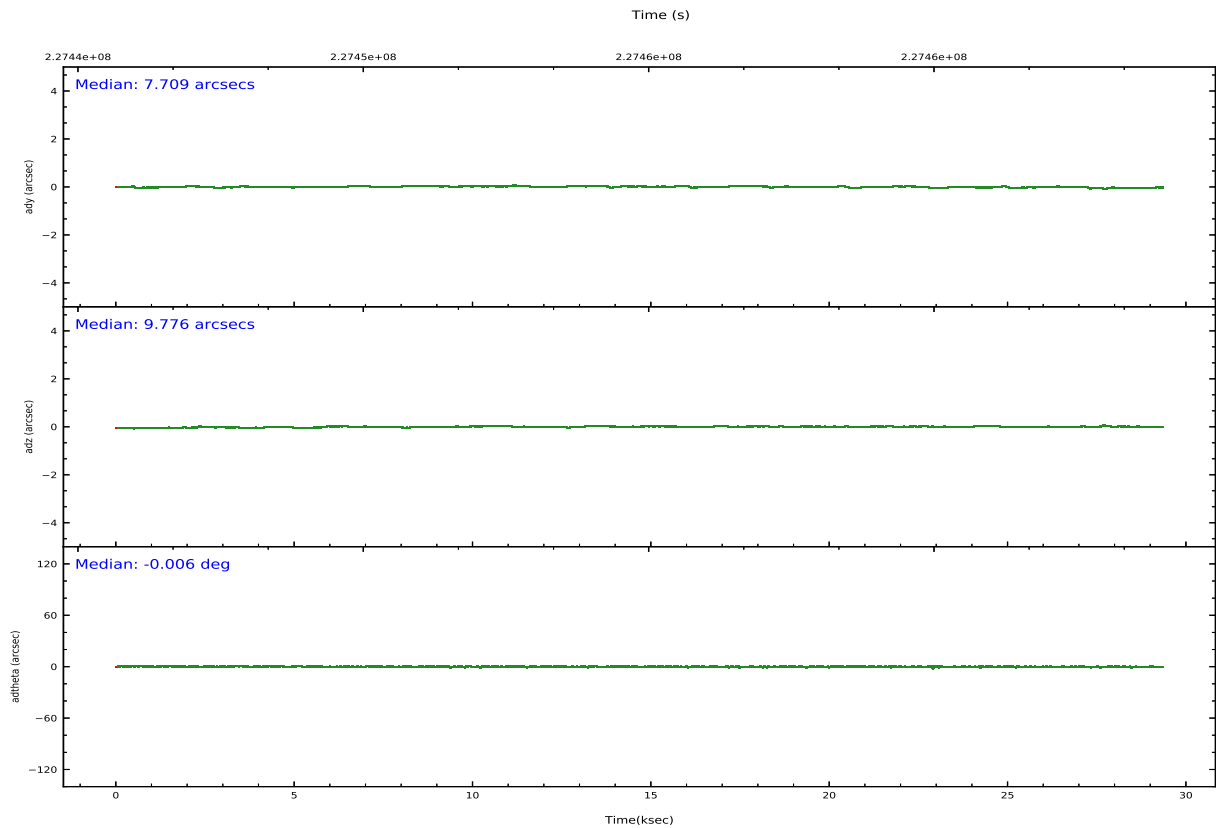
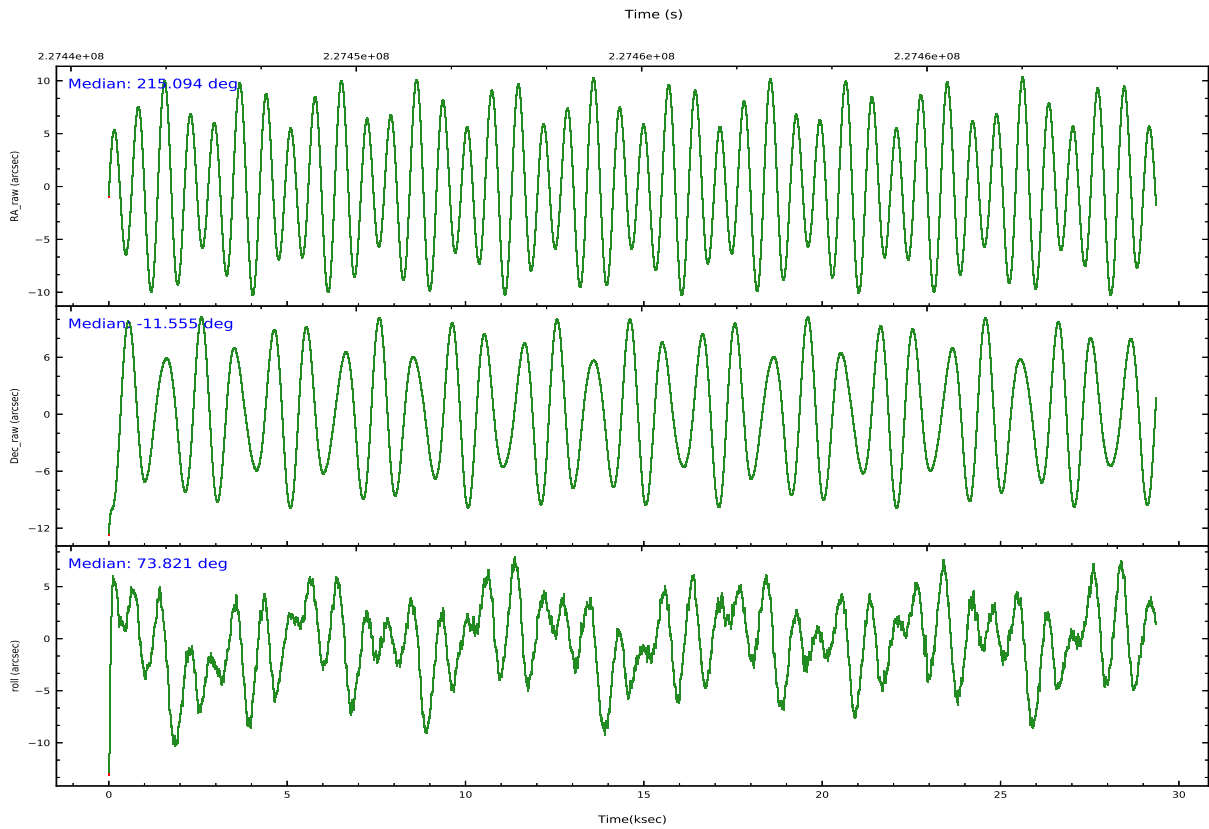
	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	6013	6634	8590	17014	7543
	3%	3%	4%	7%	4%
grade 1 events	91	88	199	154	101
	0%	0%	0%	0%	0%
grade 2 events	3609	4044	18541	11844	4208
	2%	2%	9%	5%	2%
grade 3 events	1943	2092	8827	5918	2288
	1%	1%	4%	2%	1%
grade 4 events	1928	1944	8694	5482	2179
	1%	1%	4%	2%	1%
grade 5 events	7196	7277	21659	10505	7947
	4%	3%	10%	4%	4%
grade 6 events	3403	3979	47278	13828	4052
	1%	2%	23%	6%	2%
grade 7 events	153528	157297	89679	164429	157288
	86%	85%	44%	71%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-36789	ACIS-36789	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	215.100897	215.09602905543	Subarray requested	NONE	NONE
[deg] Pointing Dec	-11.581360	-11.558010968756	Alternating exposures requested	N	N
[deg] Pointing Roll	73.663315	73.821300014917	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	227441423.184000	227440408.66908			
Observation start date	2005-03-17T10:09:19	2005-03-17T09:53:28			
[s] Observation end time (MET)	227470423.184000	227470814.27045			
Observation end date	2005-03-17T18:12:39	2005-03-17T18:20:14			
Read mode	TIMED	TIMED			

2.3 Aspect





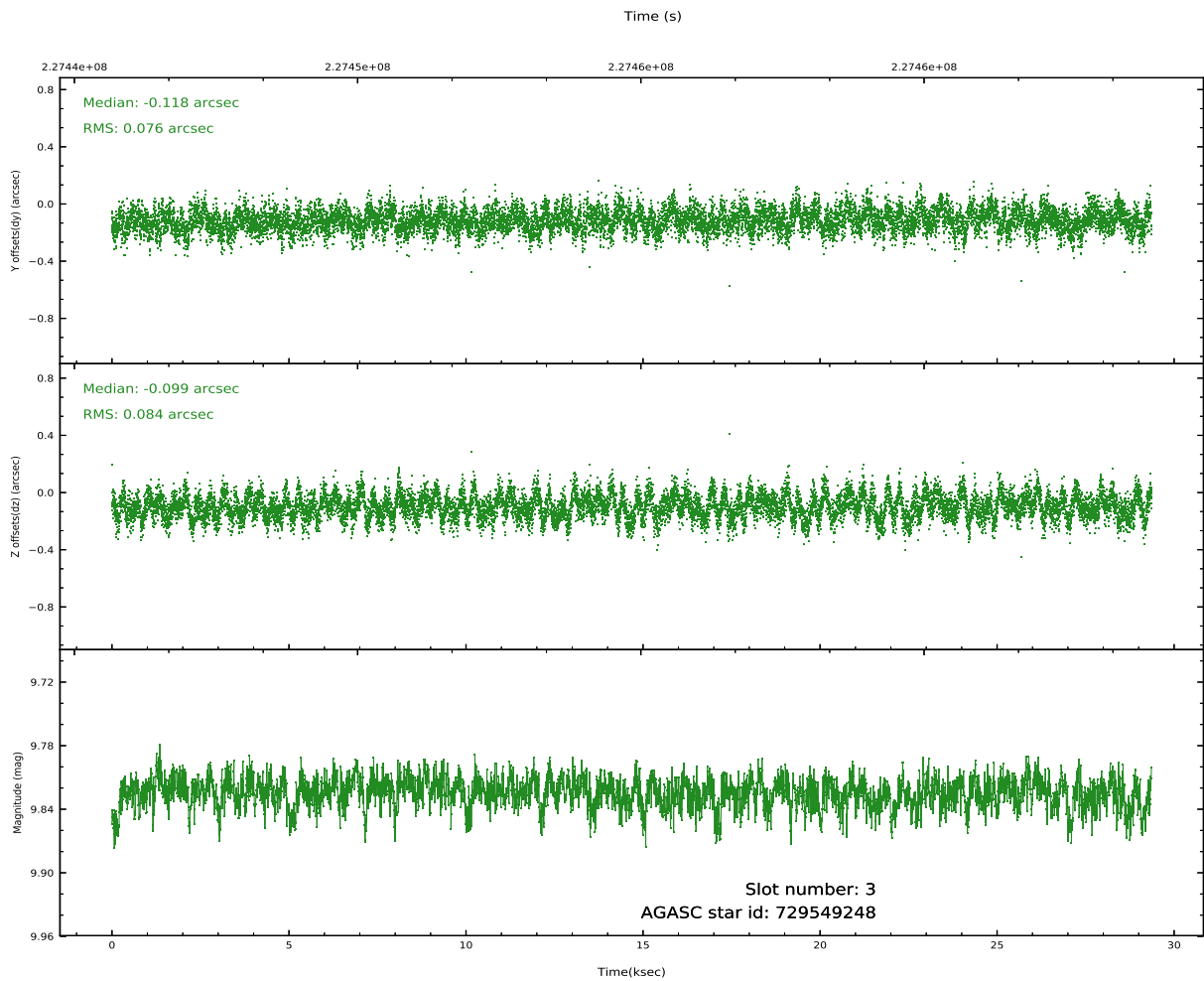
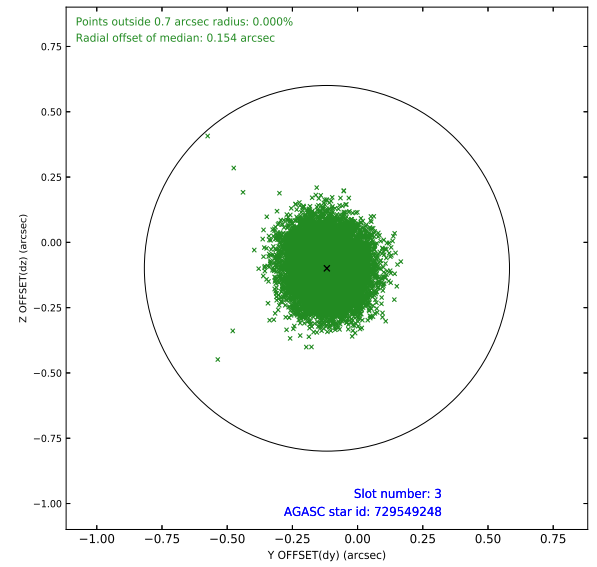
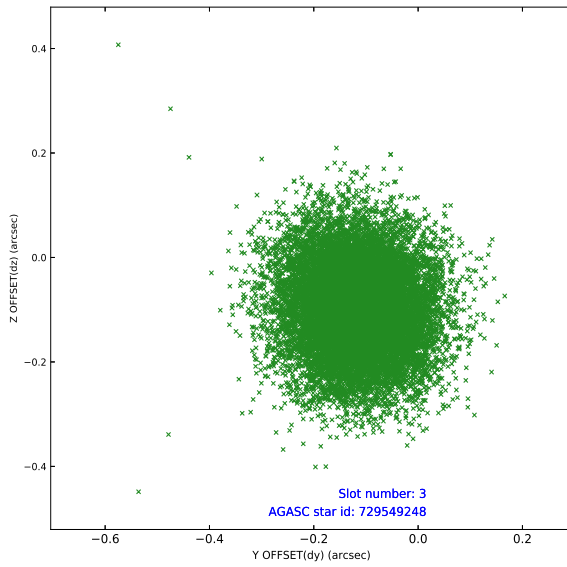
Slot Statistics

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	7.11	7160	1.000	-0.071	-0.068	0.006	0.011	0.000000	0.000000	-760.48	-1731
1	FID		ACIS-S-4	7.21	7160	1.000	0.162	0.052	0.005	0.010	0.000000	0.000000	2152.92	177
2	FID		ACIS-S-5	7.24	7158	1.000	-0.122	0.024	0.006	0.011	0.000000	0.000000	-1813.35	171
3	GUIDE	used	729549248	9.82	14304	1.000	-0.118	-0.099	0.121	0.193	215.033935	-11.058423	1739.88	757
4	GUIDE	used	730071248	8.32	14320	1.000	0.001	0.049	0.107	0.161	215.554332	-11.808230	-335.02	-1763
5	GUIDE	used	730071272	9.33	14309	1.000	0.016	-0.110	0.131	0.202	214.693677	-11.804287	-1174.84	1150
6	GUIDE	used	730071552	8.14	14319	1.000	-0.055	0.030	0.071	0.114	215.297067	-11.841775	-705.17	-926
7	GUIDE	used	730071624	9.69	14306	1.000	0.150	0.137	0.103	0.175	215.217660	-11.714250	-342.84	-529

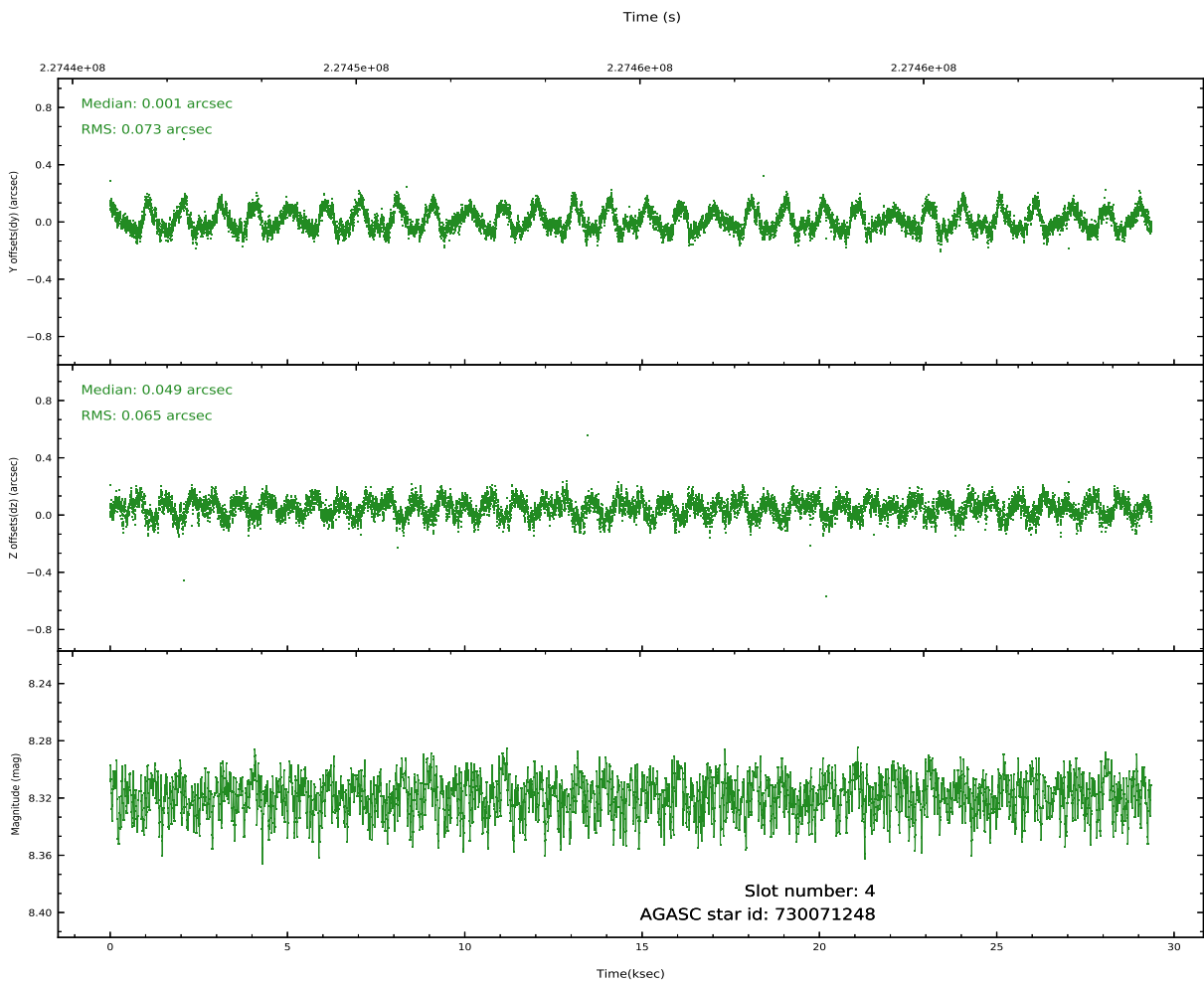
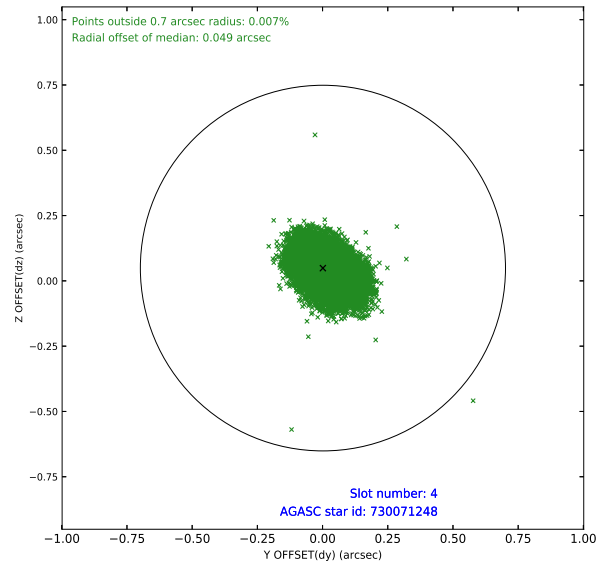
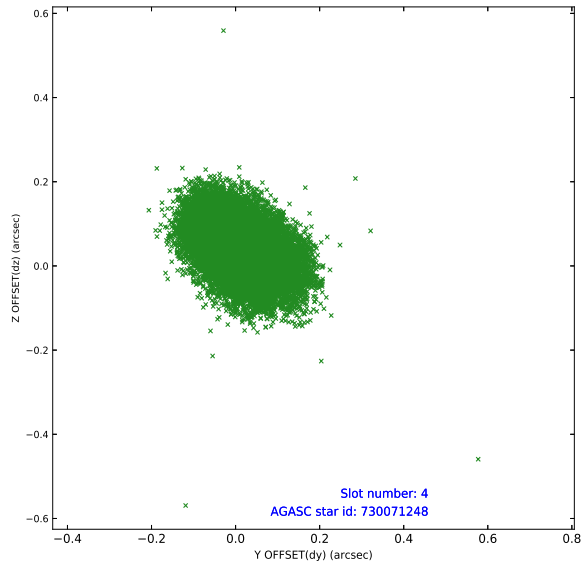
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2.4 Star Slots

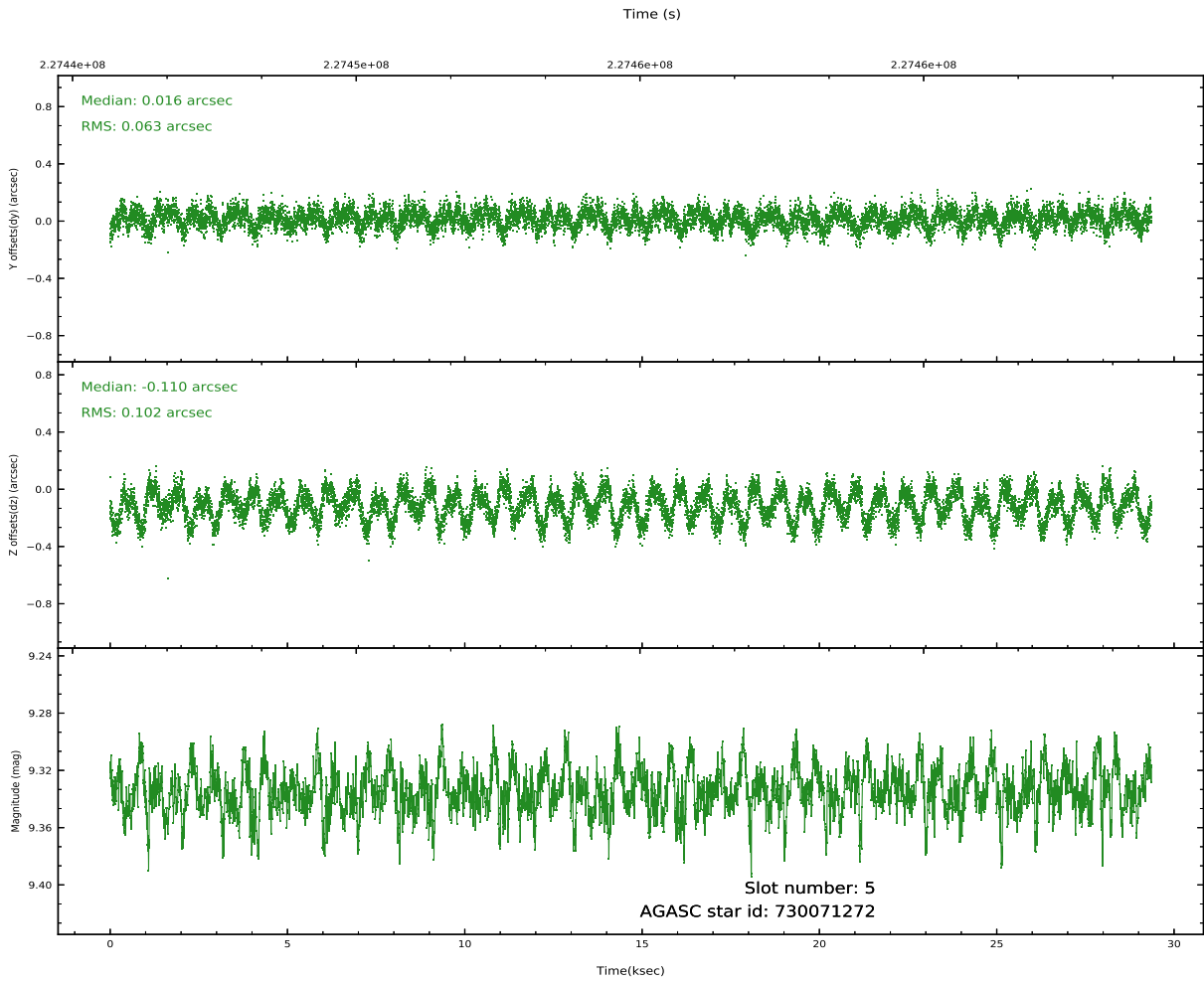
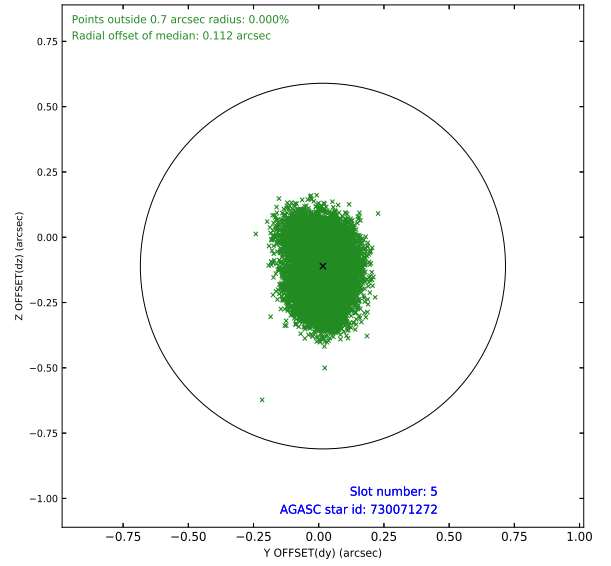
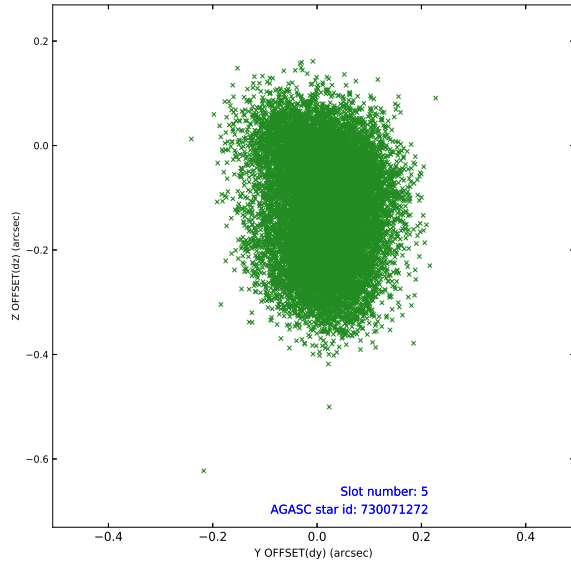
2.4.1 Slot 3



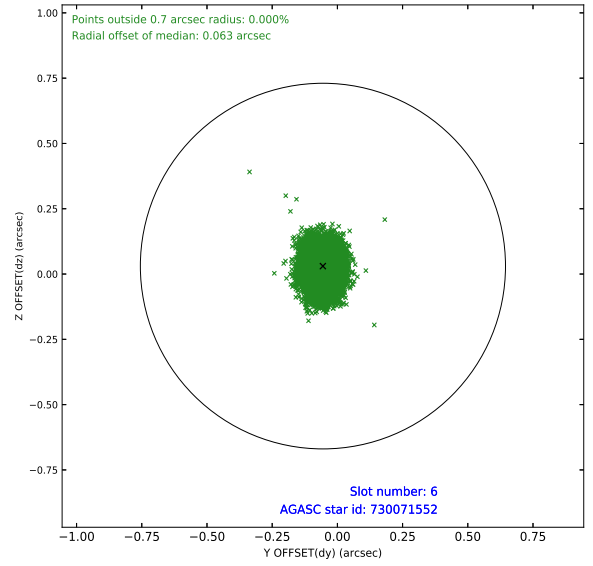
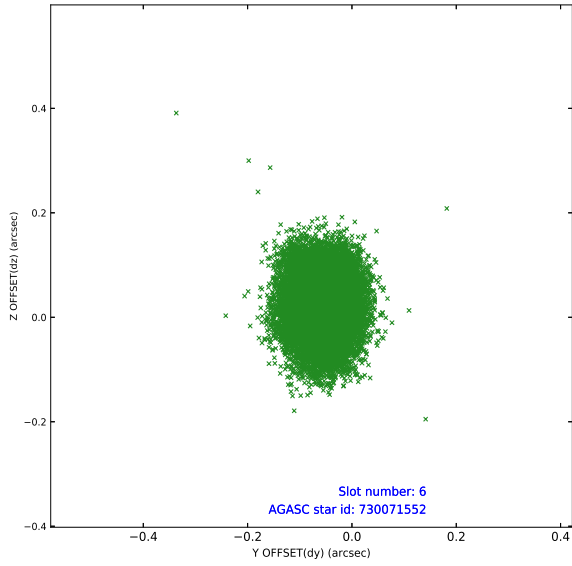
2.4.2 Slot 4



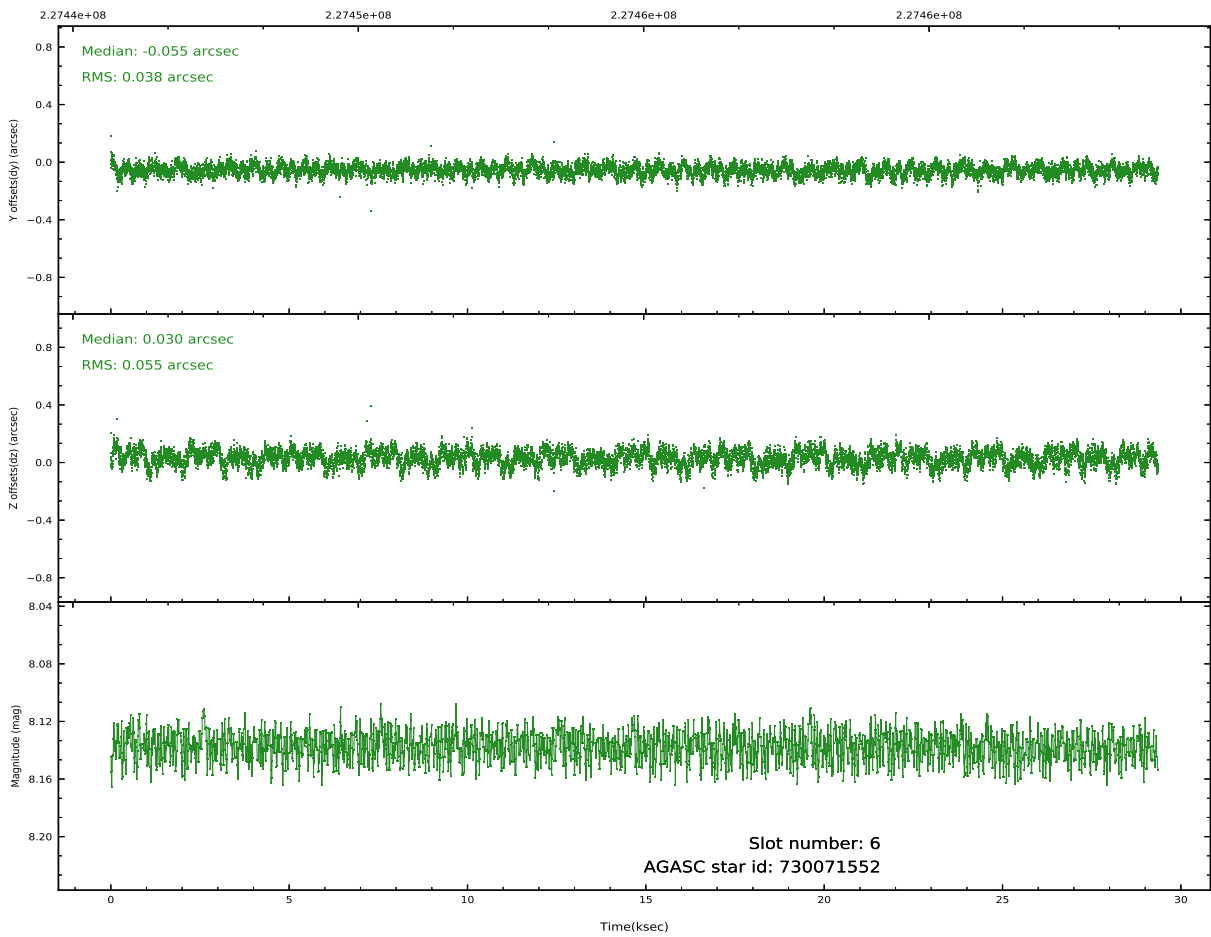
2.4.3 Slot 5



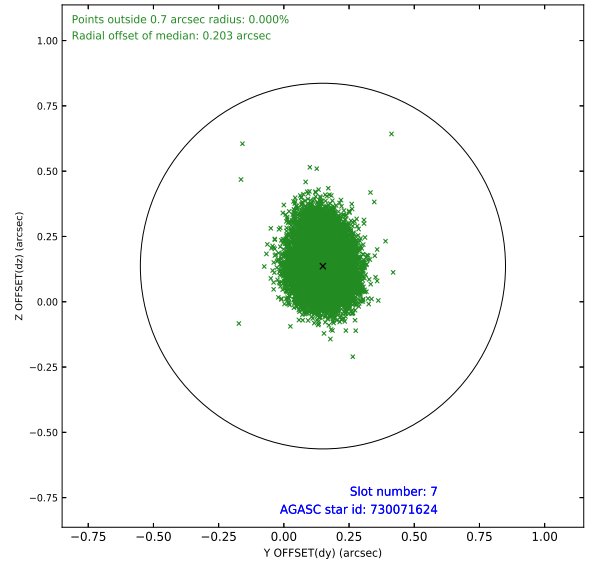
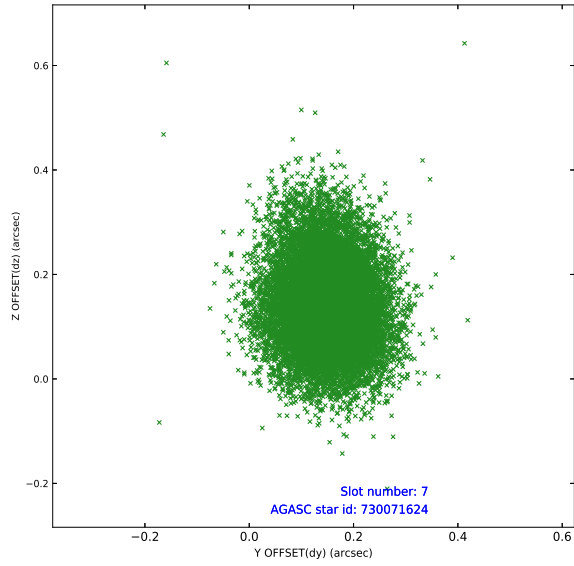
2.4.4 Slot 6



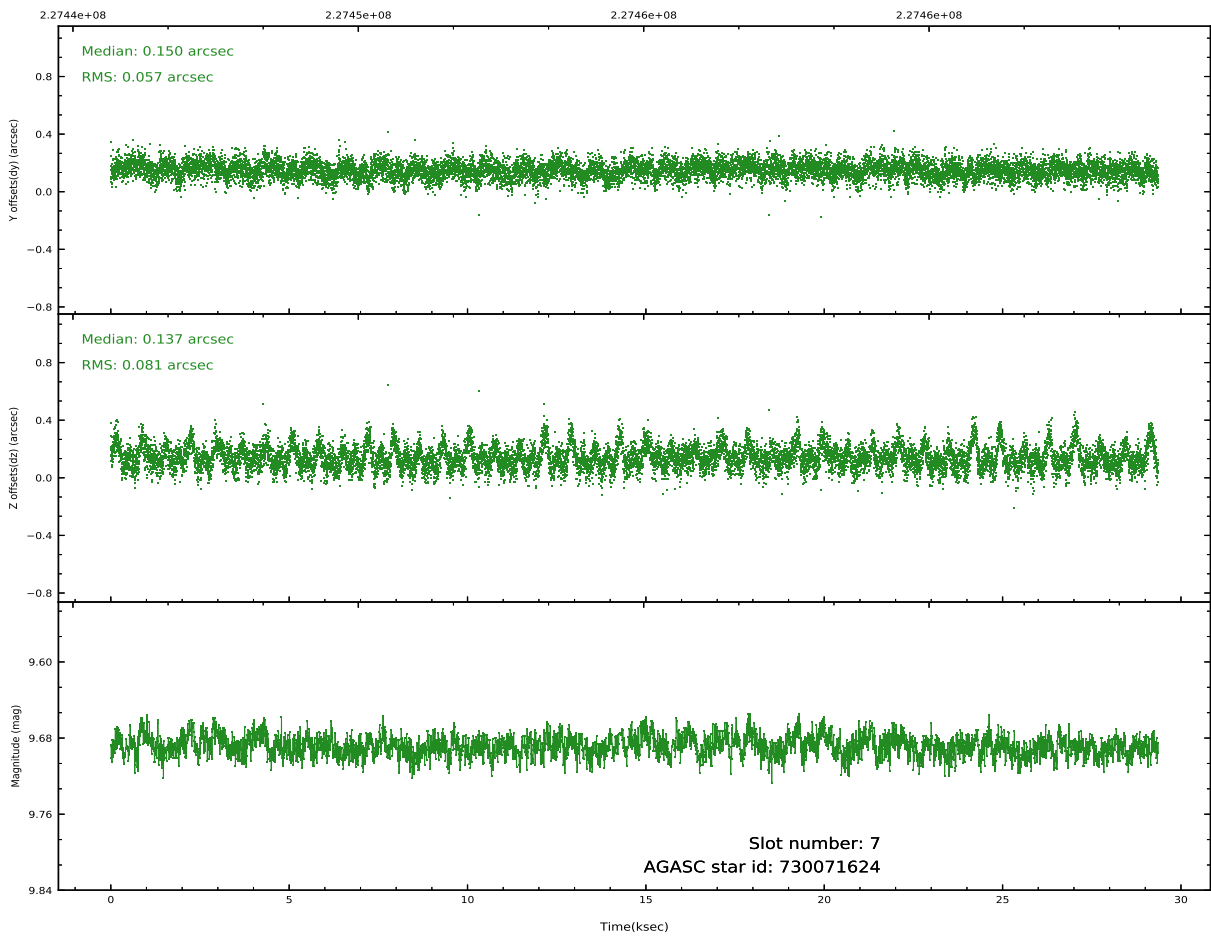
Time (s)



2.4.5 Slot 7

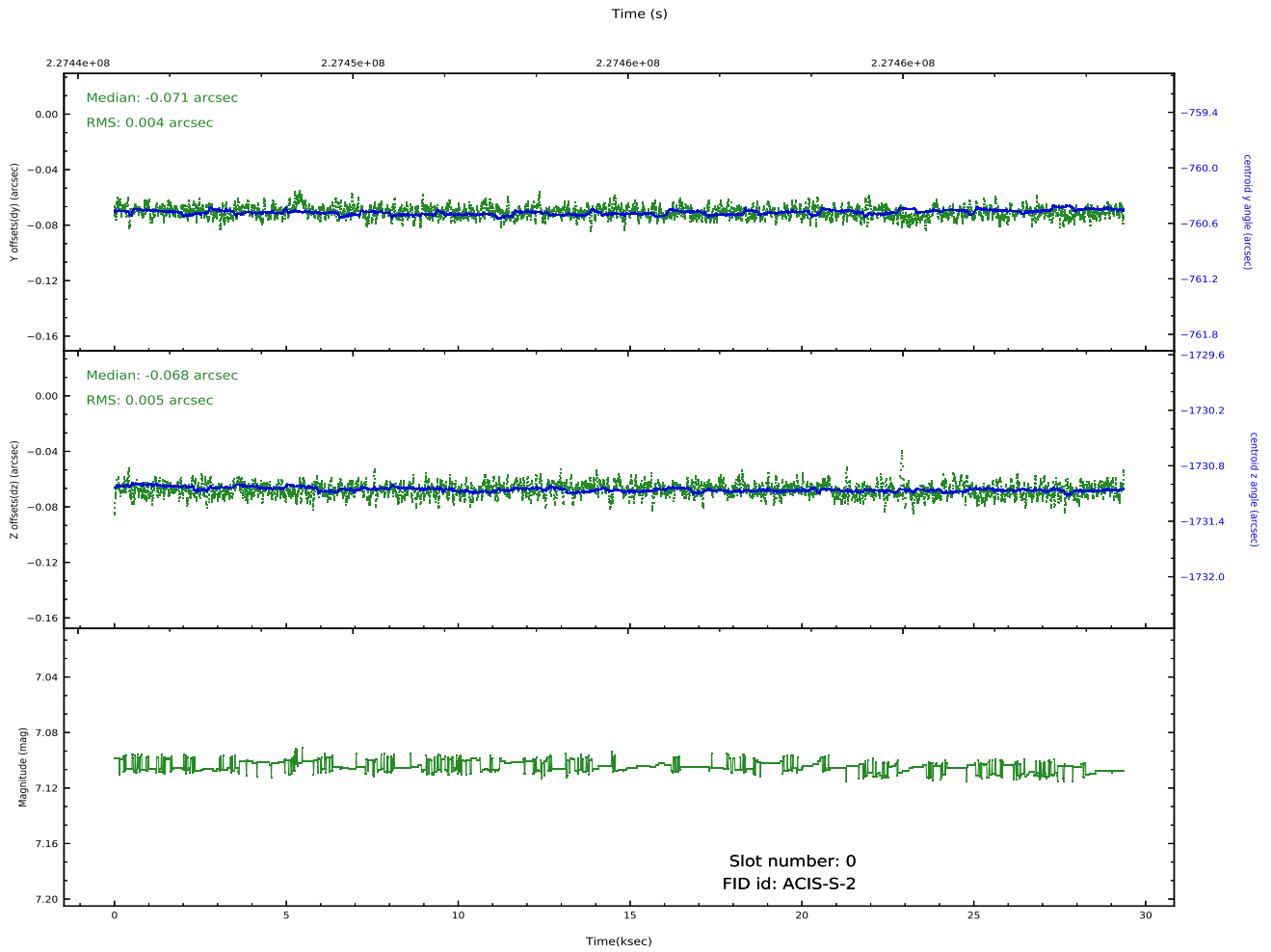
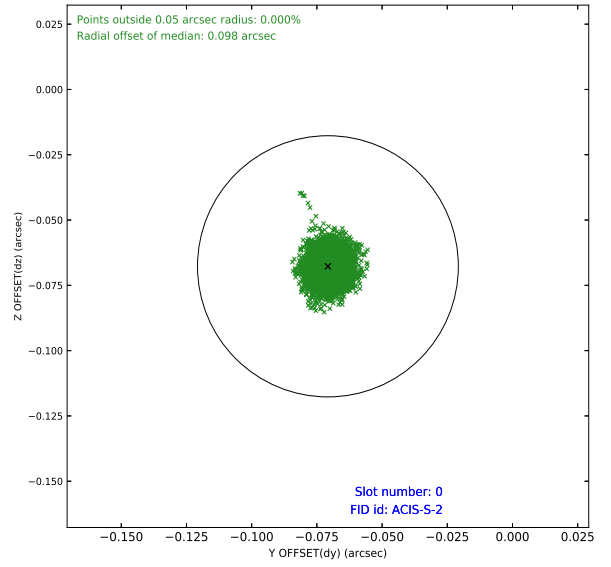
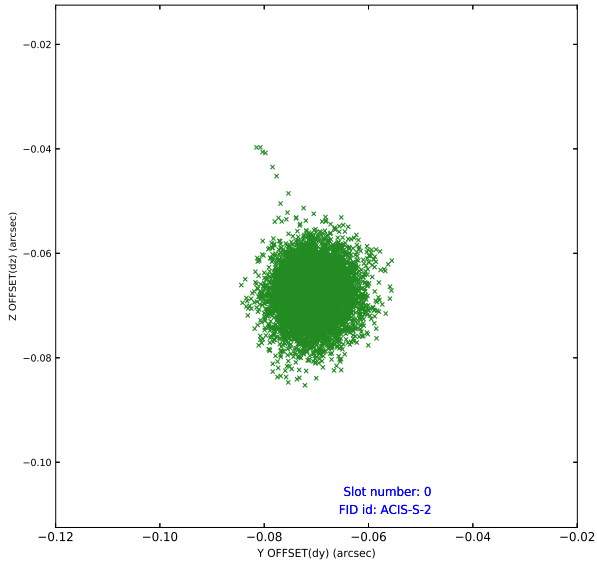


Time (s)

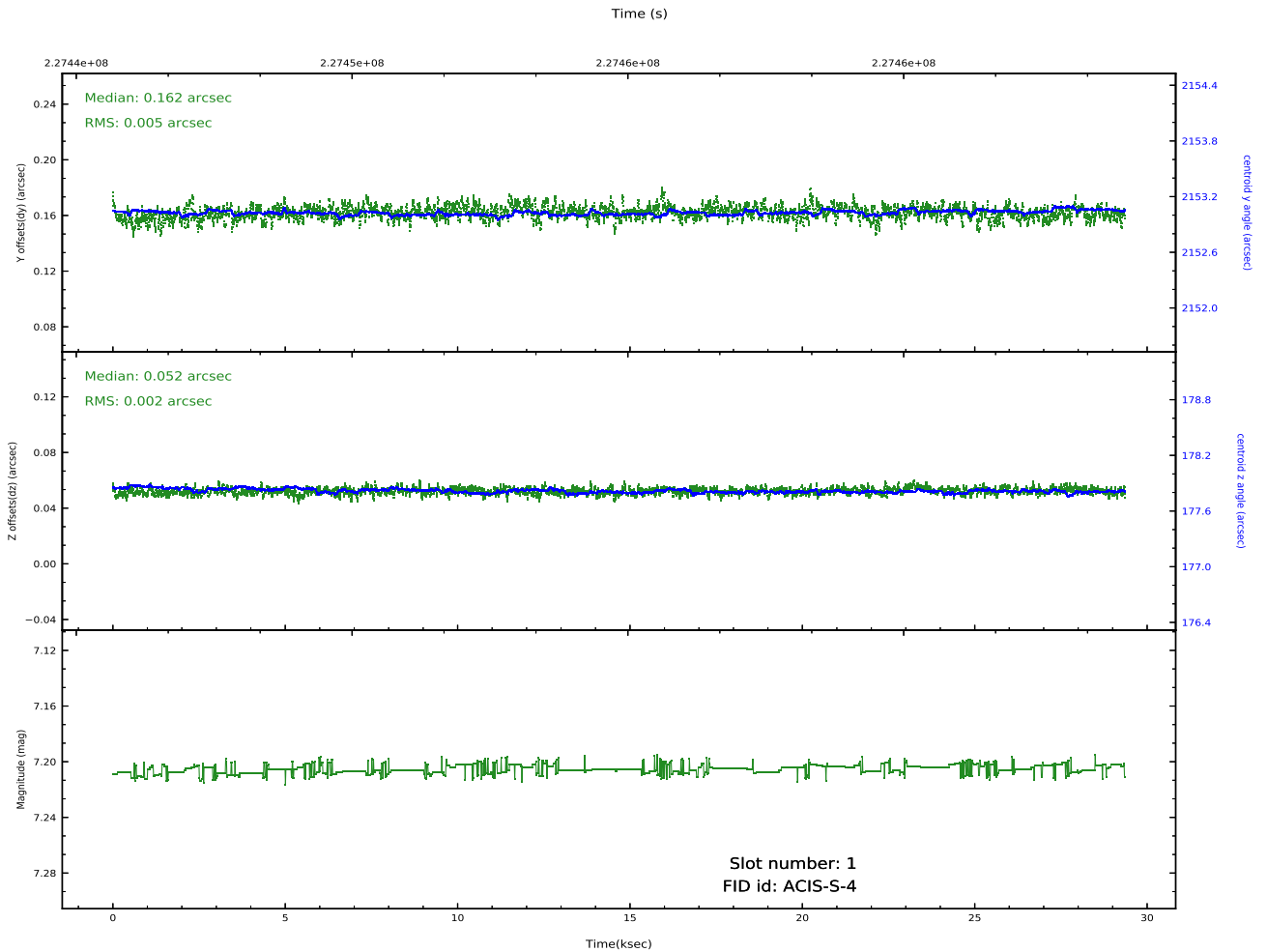
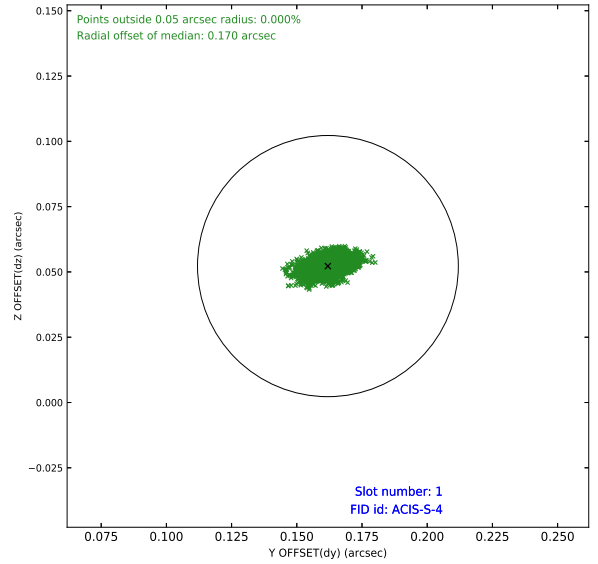
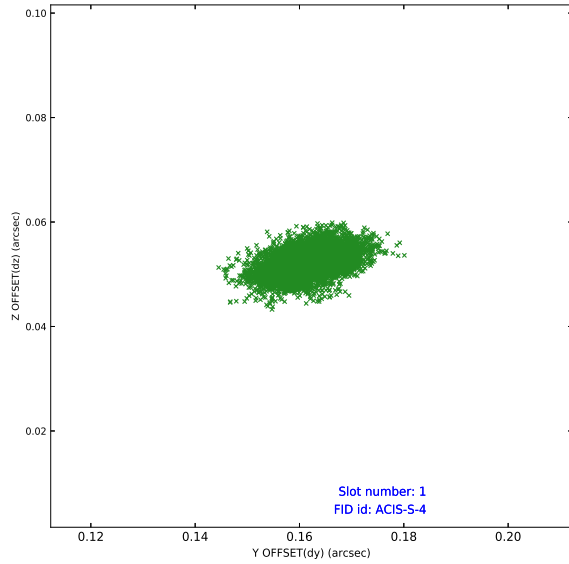


2.5 FID Slots

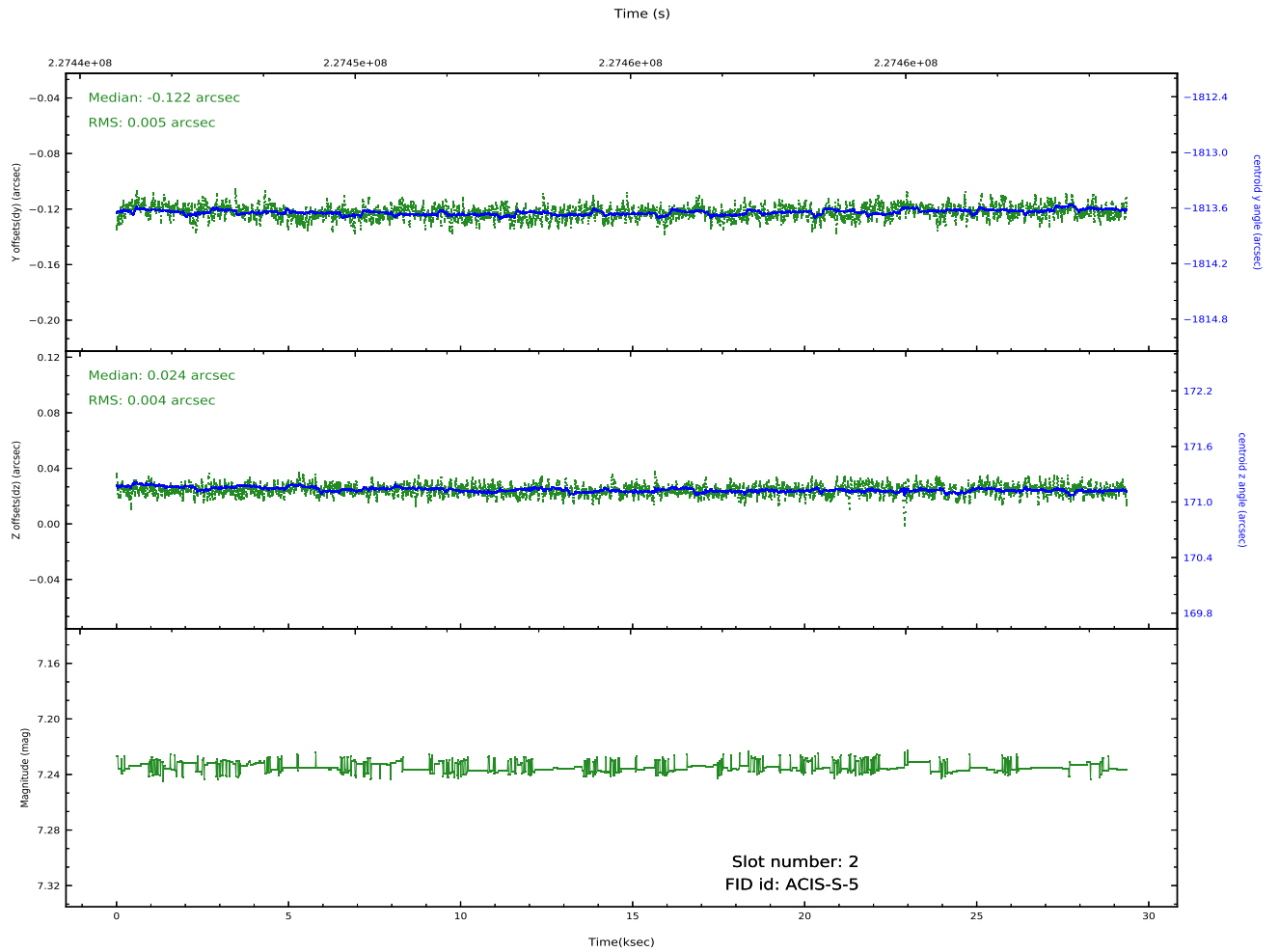
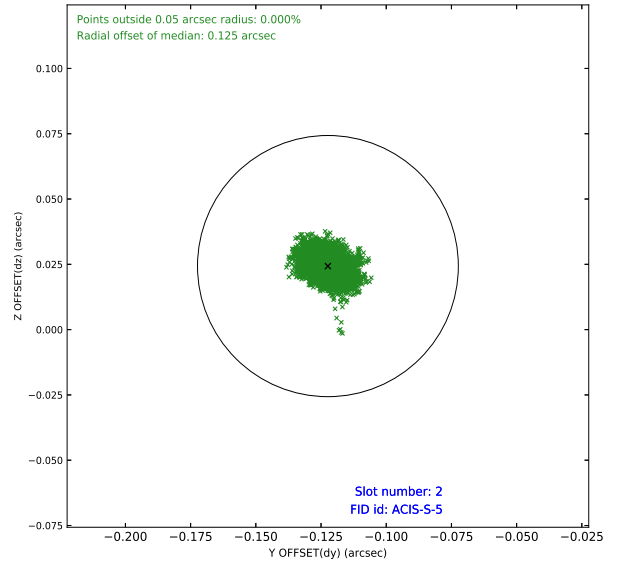
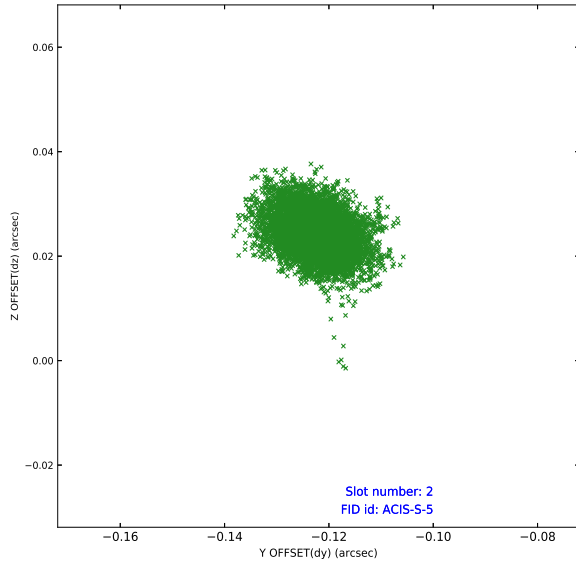
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.03455

A.2 Comments