

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4957 - L2 Version 4
Chandra X-Ray Center

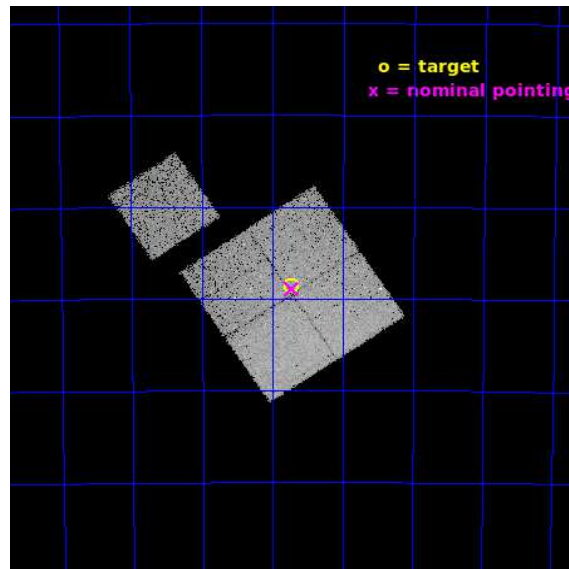
L2 Processing Date : Sep 26 2020

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1 Front

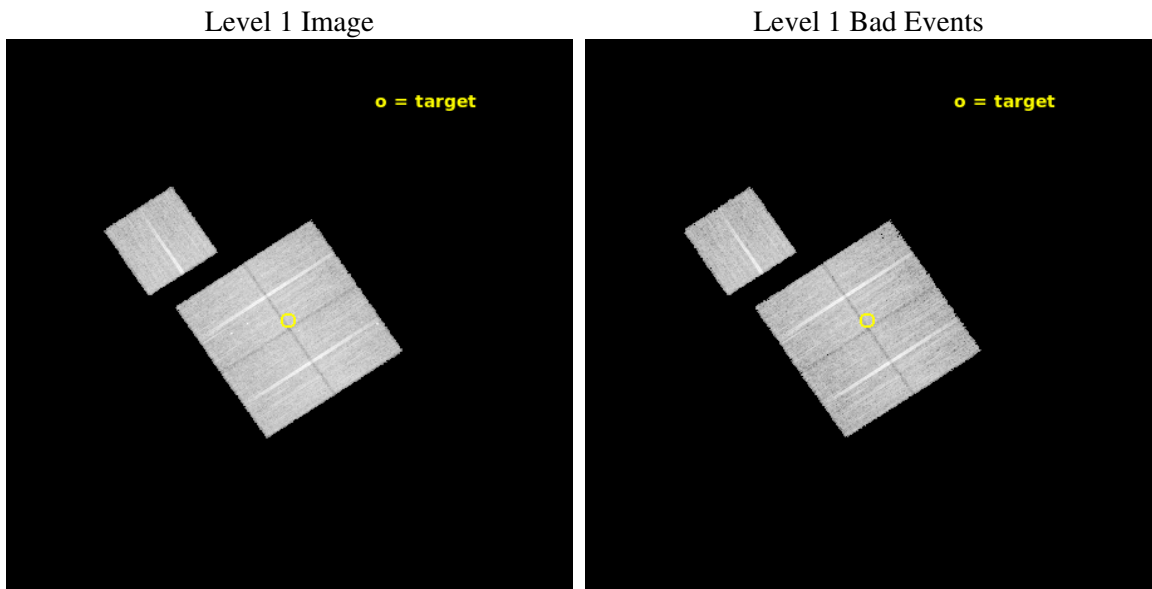
seq_num	800403	Sequence number
obs_id	4957	Observation id
title	The Cluster A3627 -- The Nearest Major Merger	Proposal title
observer	Christine Jones	Principal investigator
object	Abell 3627	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	243.6821	Observer's specified target RA [deg]
dec_targ	-60.643364	Observer's specified target Dec [deg]
ra_nom	243.68139938785	Nominal RA [deg]
dec_nom	-60.648519511861	Nominal Dec [deg]
roll_nom	326.20868657073	Nominal Roll [deg]
revision	4	Processing version of data
ontime	14299.514234871	Sum of GTIs [s]
livetime	14112.680554243	Livetime [s]
ontime0	14299.391114861	Sum of GTIs [s]
ontime1	14296.29117462	Sum of GTIs [s]
ontime2	14296.33220467	Sum of GTIs [s]
ontime3	14299.514234871	Sum of GTIs [s]
ontime6	14299.350074857	Sum of GTIs [s]
l2events	80317	Number of level 2 events



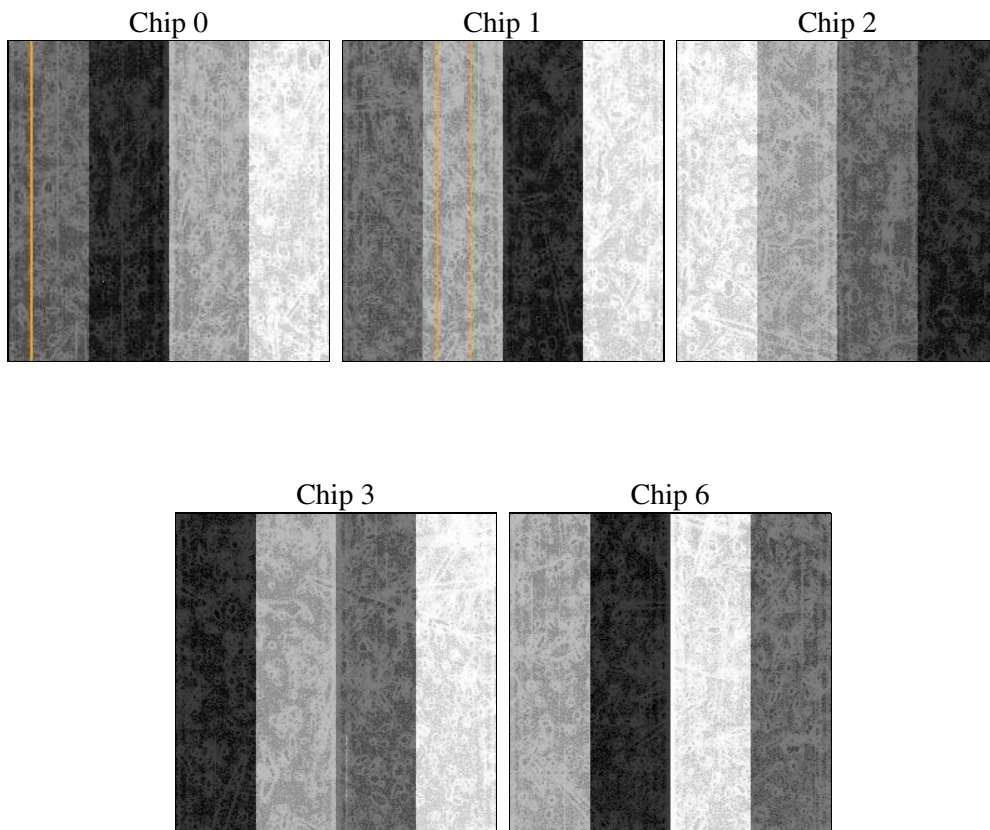
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14526.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	14299.514234871	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	14299.391114861	Sum of GTIs [s]
date	2020-09-26T19:50:03	Date and time of file creation	ontime1	14296.29117462	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	14296.33220467	Sum of GTIs [s]
			ontime3	14299.514234871	Sum of GTIs [s]
			ontime6	14299.350074857	Sum of GTIs [s]
			l1events	490236	Number of level 1 events

2.1.4 Events

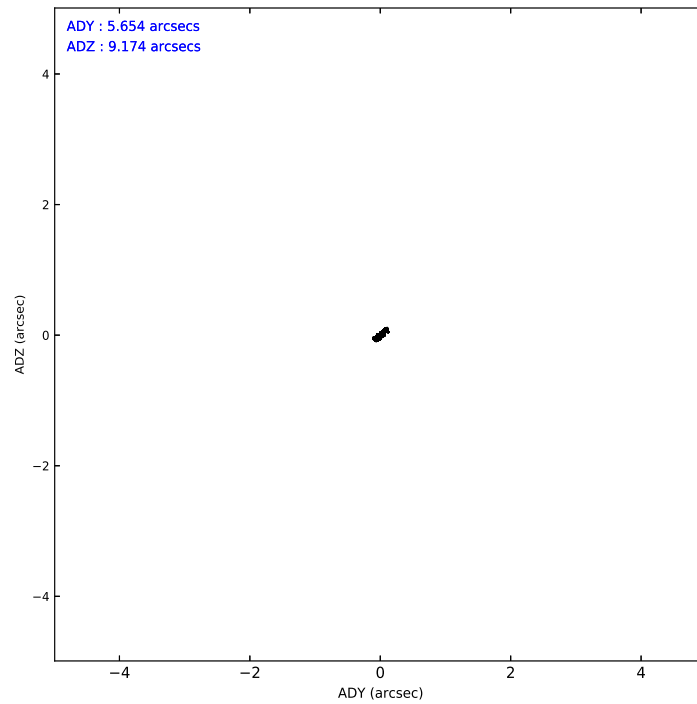
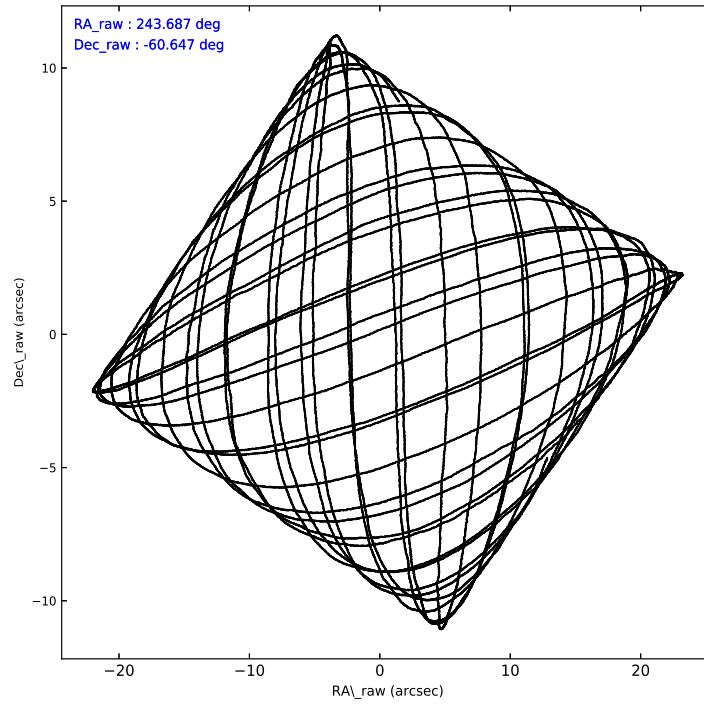
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	102146	100234	100881	96389	90586
rejected events	76162	76863	84997	81073	80176
rejected %	74%	76%	84%	84%	88%

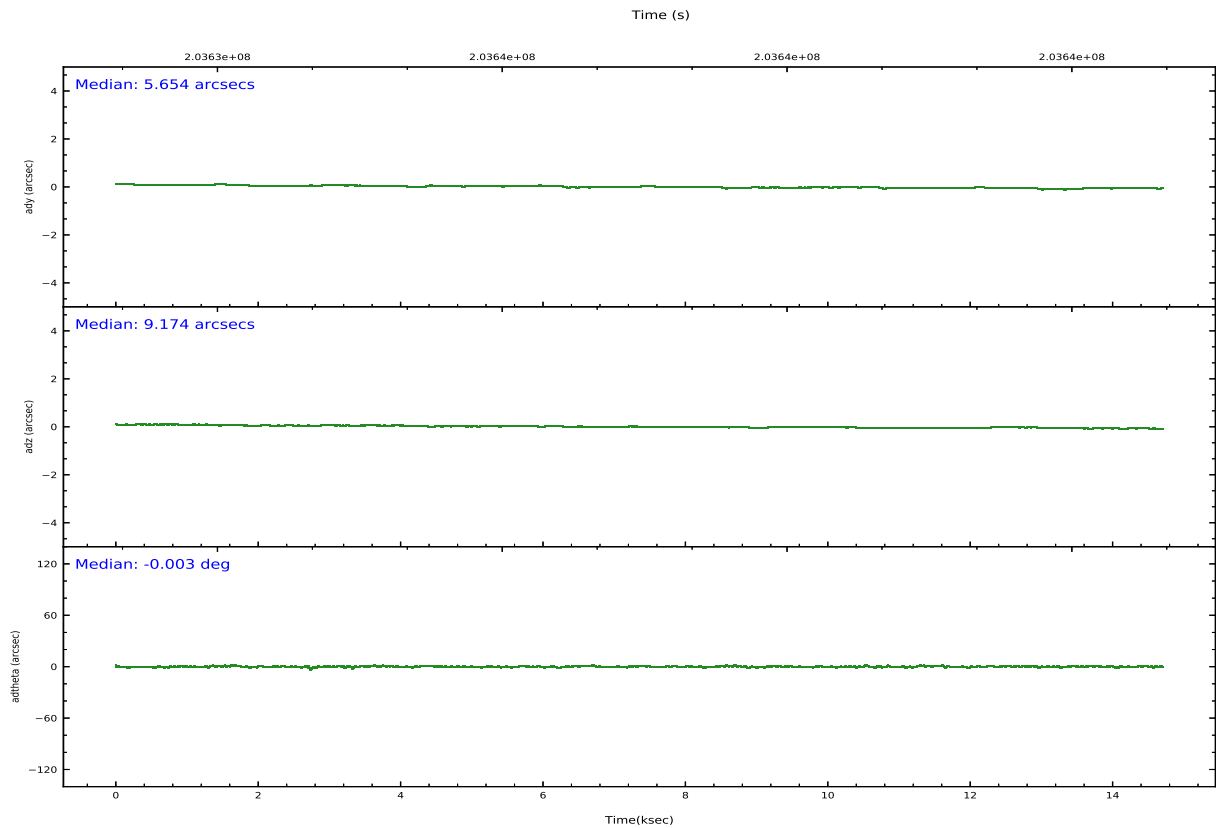
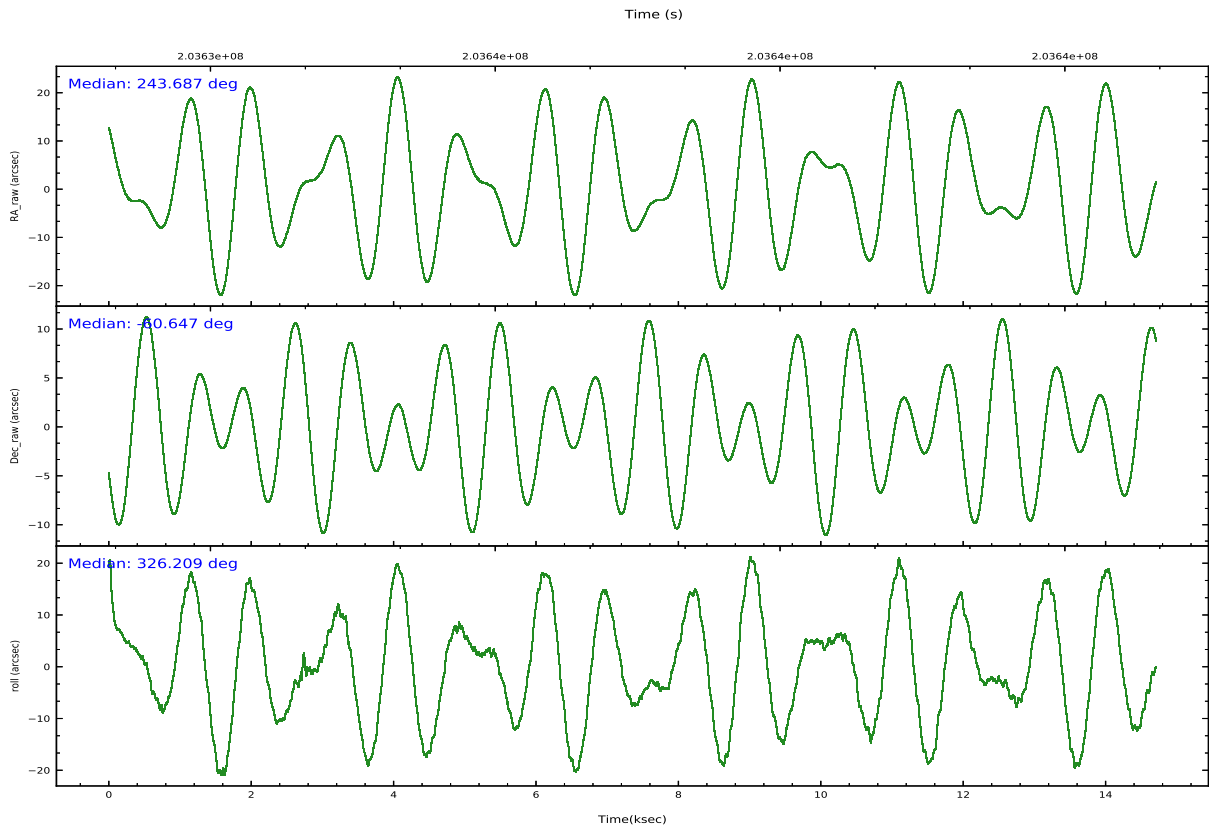
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	16743	14485	8889	8616	4308
	16%	14%	8%	8%	4%
grade 1 events	110	97	72	65	49
	0%	0%	0%	0%	0%
grade 2 events	3913	3554	2884	2451	2035
	3%	3%	2%	2%	2%
grade 3 events	1575	1555	1181	1215	1091
	1%	1%	1%	1%	1%
grade 4 events	1514	1481	1152	1239	1075
	1%	1%	1%	1%	1%
grade 5 events	3156	3429	3051	3479	3665
	3%	3%	3%	3%	4%
grade 6 events	2251	2303	1783	1796	1904
	2%	2%	1%	1%	2%
grade 7 events	72884	73330	81869	77528	76459
	71%	73%	81%	80%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	243.631530	243.68139938785	Subarray requested	NONE	NONE
[deg] Pointing Dec	-60.645520	-60.648519511861	Alternating exposures requested	N	N
[deg] Pointing Roll	325.955921	326.20868657073	[s] Primary exposure time	0.000000	3.1
[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)	203630757.184000	203630381.25208			
Observation start date	2004-06-14T20:04:53	2004-06-14T19:59:41			
[s] Observation end time (MET)	203645283.184000	203645416.97775			
Observation end date	2004-06-15T00:06:59	2004-06-15T00:10:16			
Read mode	TIMED	TIMED			

2.3 Aspect





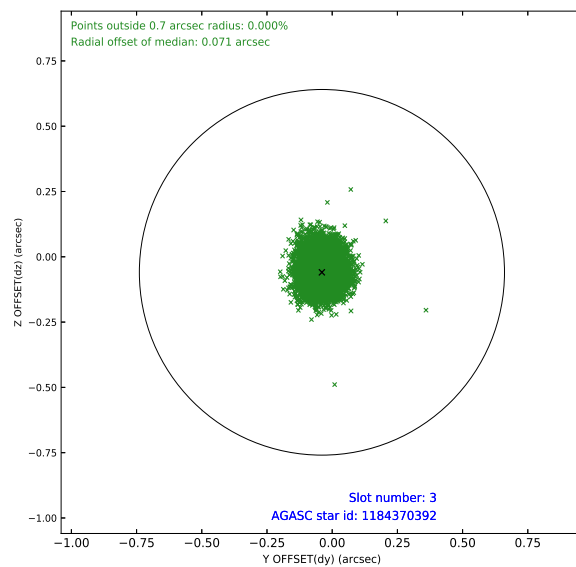
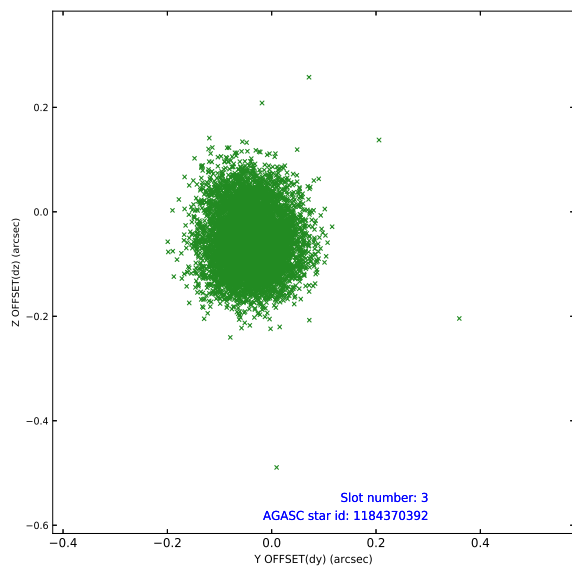
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.24	3588	1.000	-0.012	0.016	0.009	0.015	0.000000	0.000000	934.06	-832
1	FID		ACIS-I-4	7.19	3588	1.000	0.141	0.019	0.009	0.015	0.000000	0.000000	2154.41	1067
2	FID		ACIS-I-5	7.23	3588	1.000	-0.227	0.036	0.009	0.017	0.000000	0.000000	-1813.78	1065
3	GUIDE	used	1184370392	8.91	7175	1.000	-0.039	-0.059	0.079	0.127	242.836162	-61.139154	-145.09	-2253
4	GUIDE	used	1184371048	8.56	7106	1.000	-0.037	-0.028	0.065	0.105	243.777147	-61.267740	1463.43	-1715
5	GUIDE	used	1184371152	8.29	7177	1.000	-0.003	-0.025	0.057	0.092	243.531081	-60.141333	-1164.97	1402
6	GUIDE	used	1184375696	8.69	7176	1.000	-0.067	-0.039	0.077	0.128	243.784369	-60.099738	-872.66	1781
7	GUIDE	used	1184511016	9.24	7172	1.000	0.146	0.148	0.079	0.132	245.305522	-60.469188	2126.88	2158

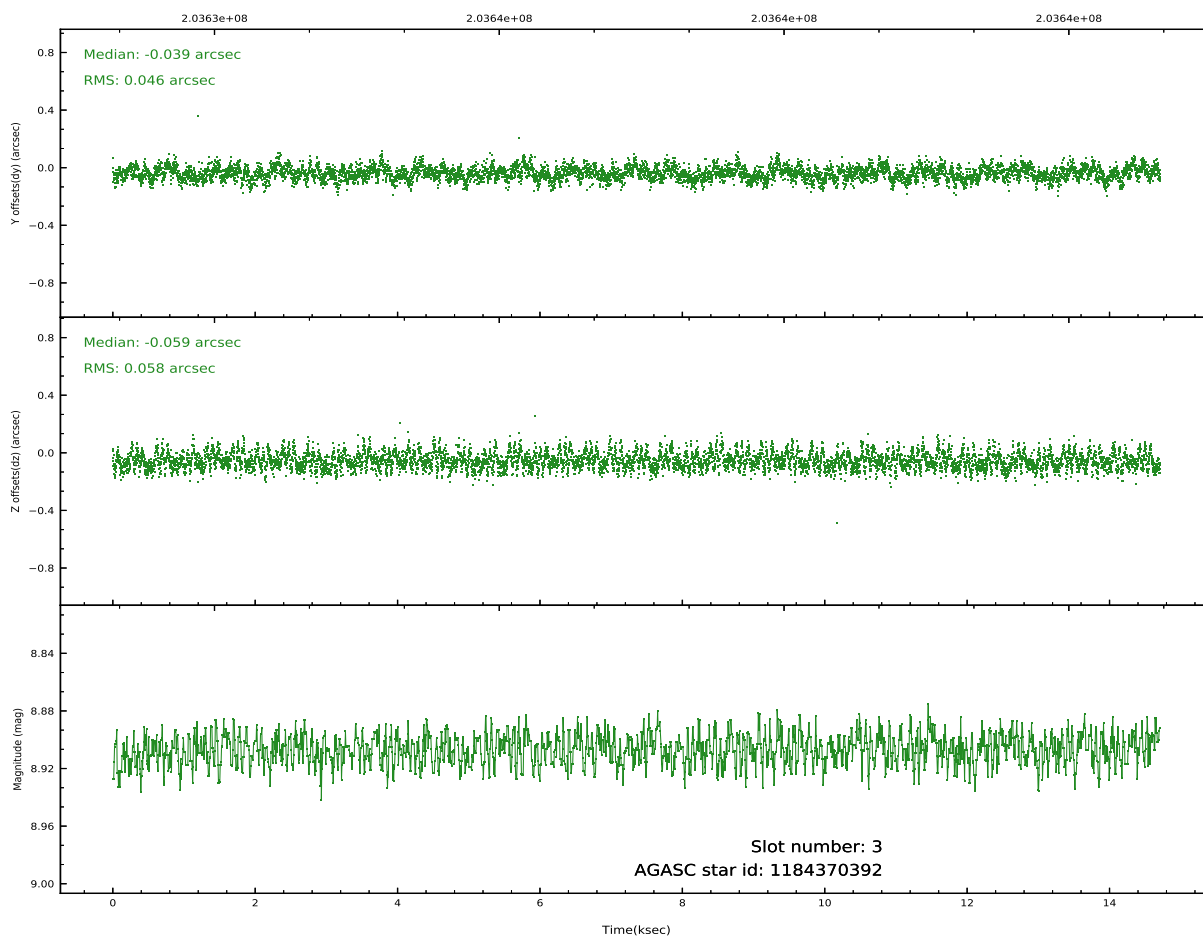
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2.4 Star Slots

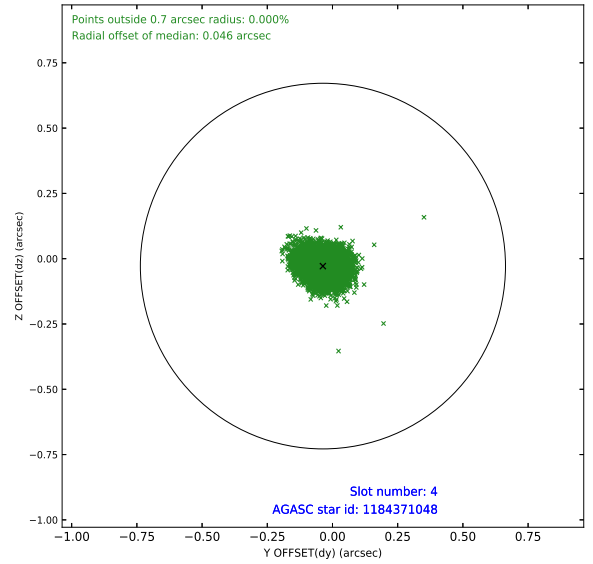
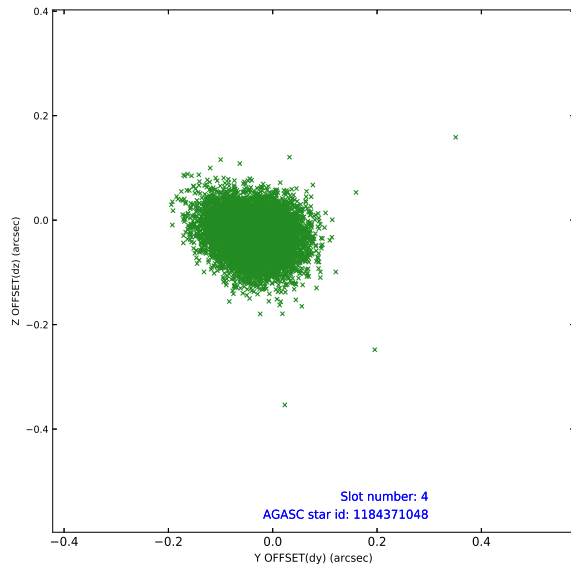
2.4.1 Slot 3



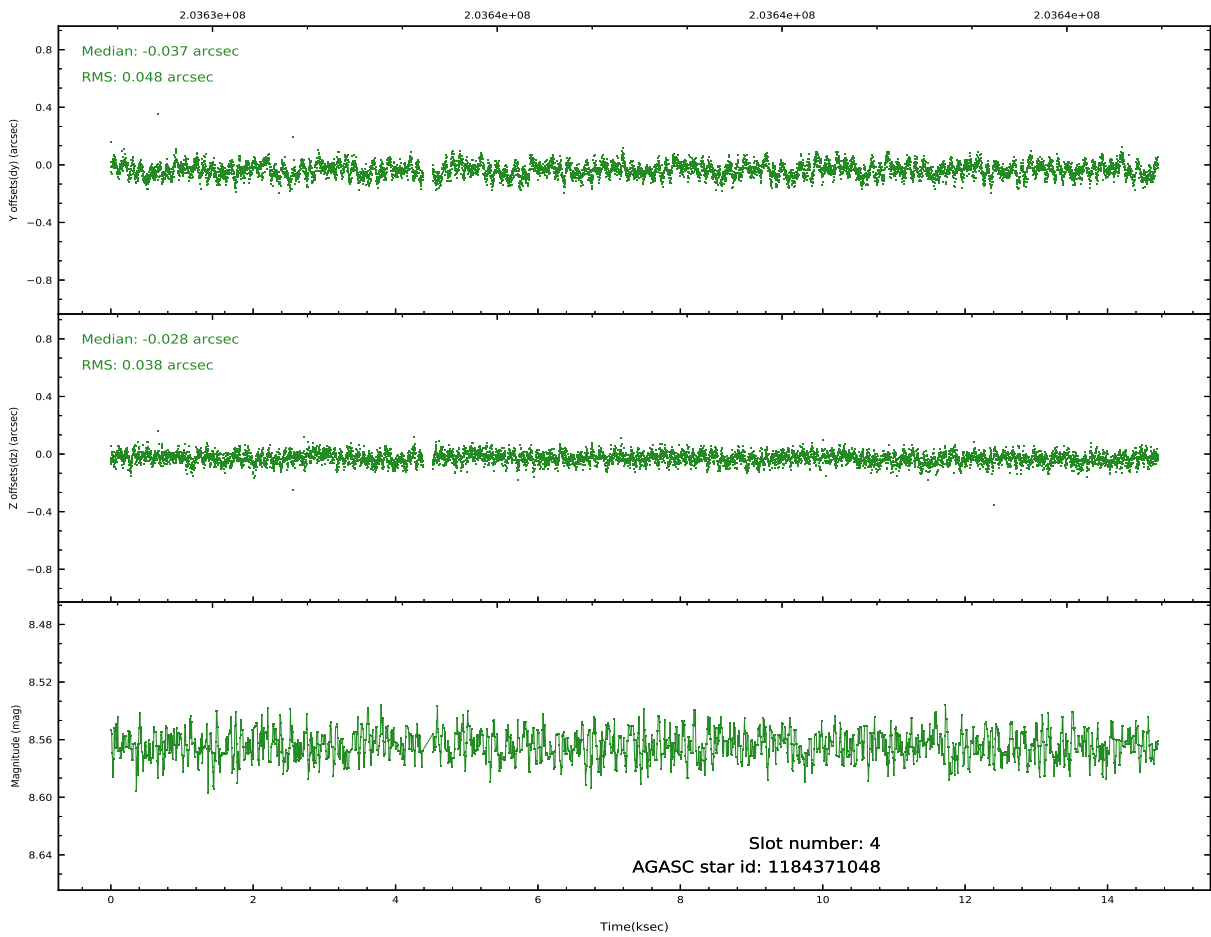
Time (s)



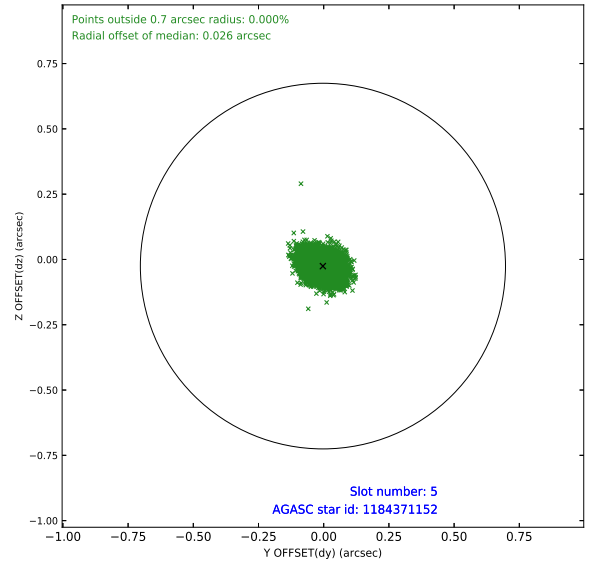
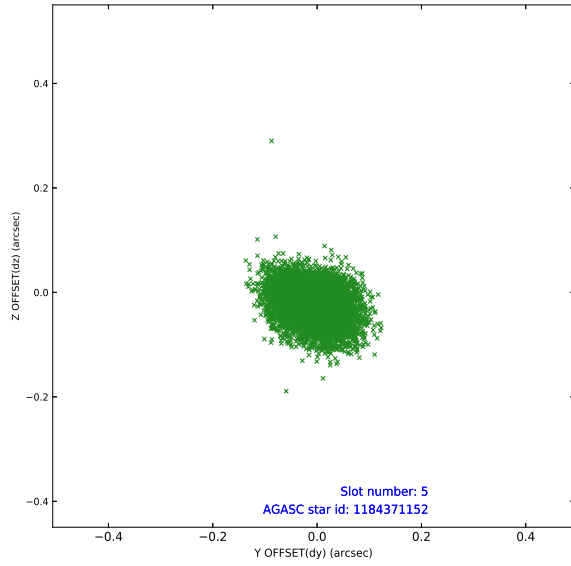
2.4.2 Slot 4



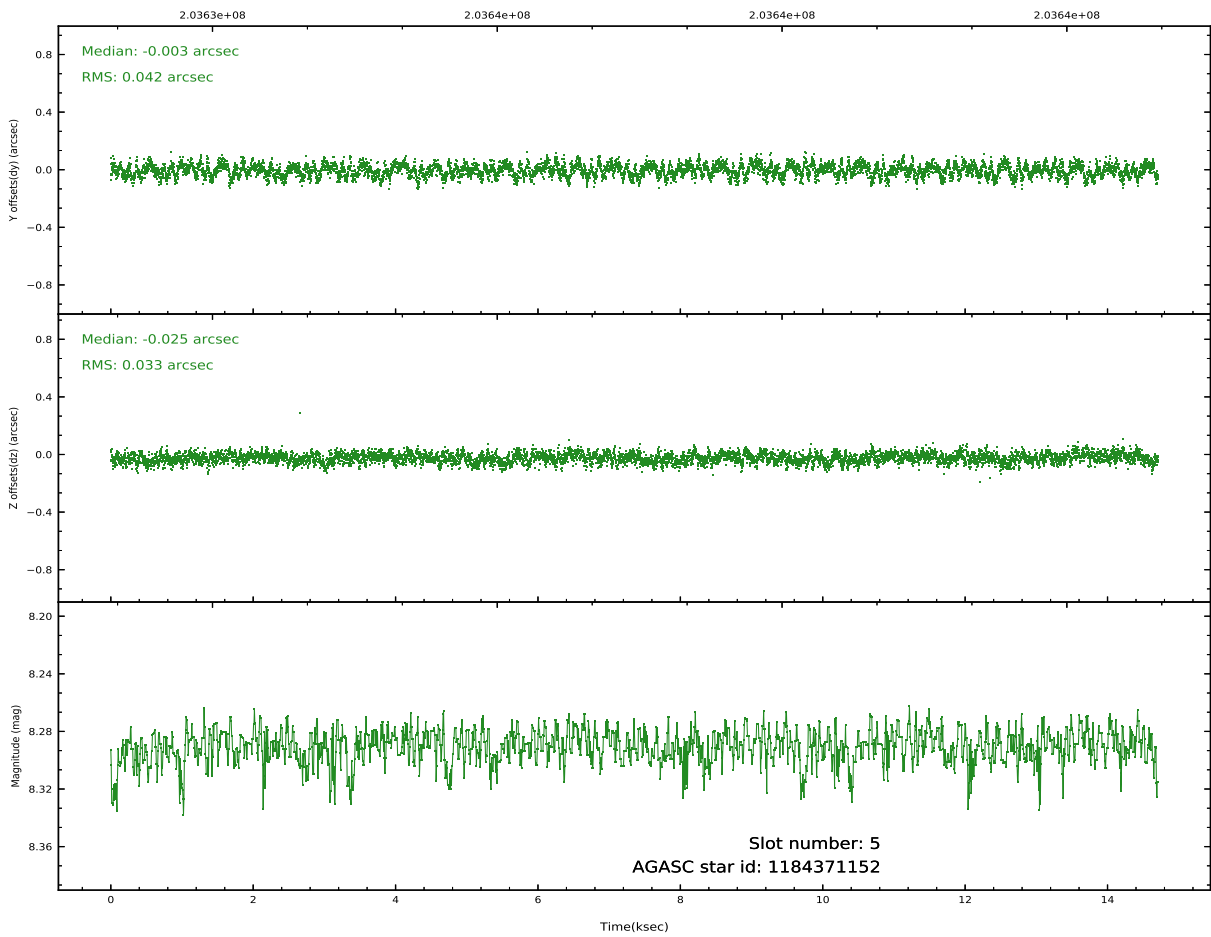
Time (s)



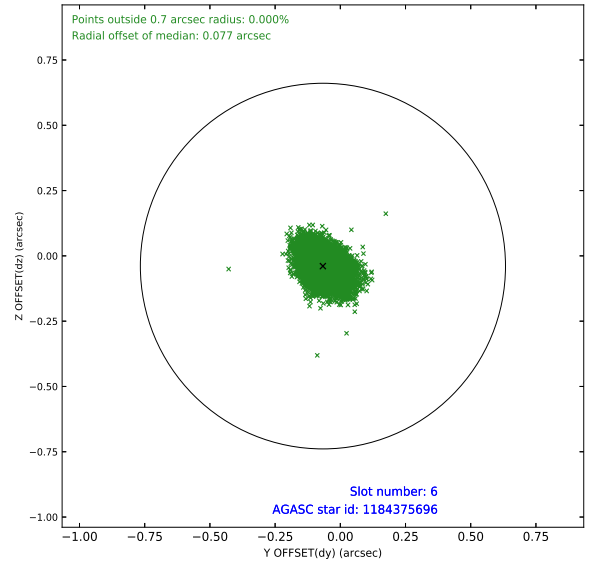
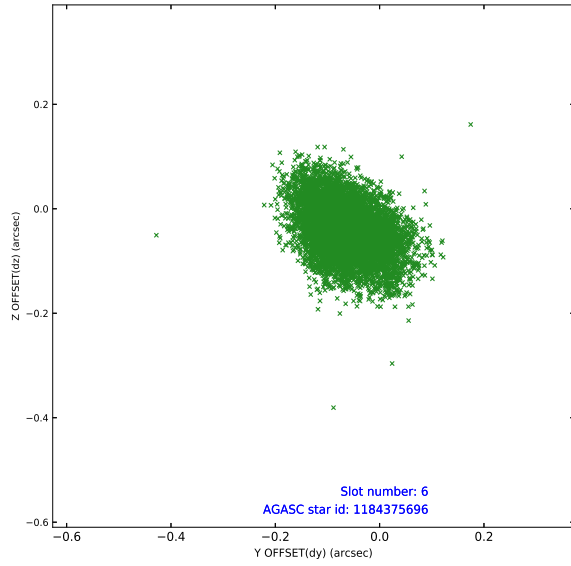
2.4.3 Slot 5



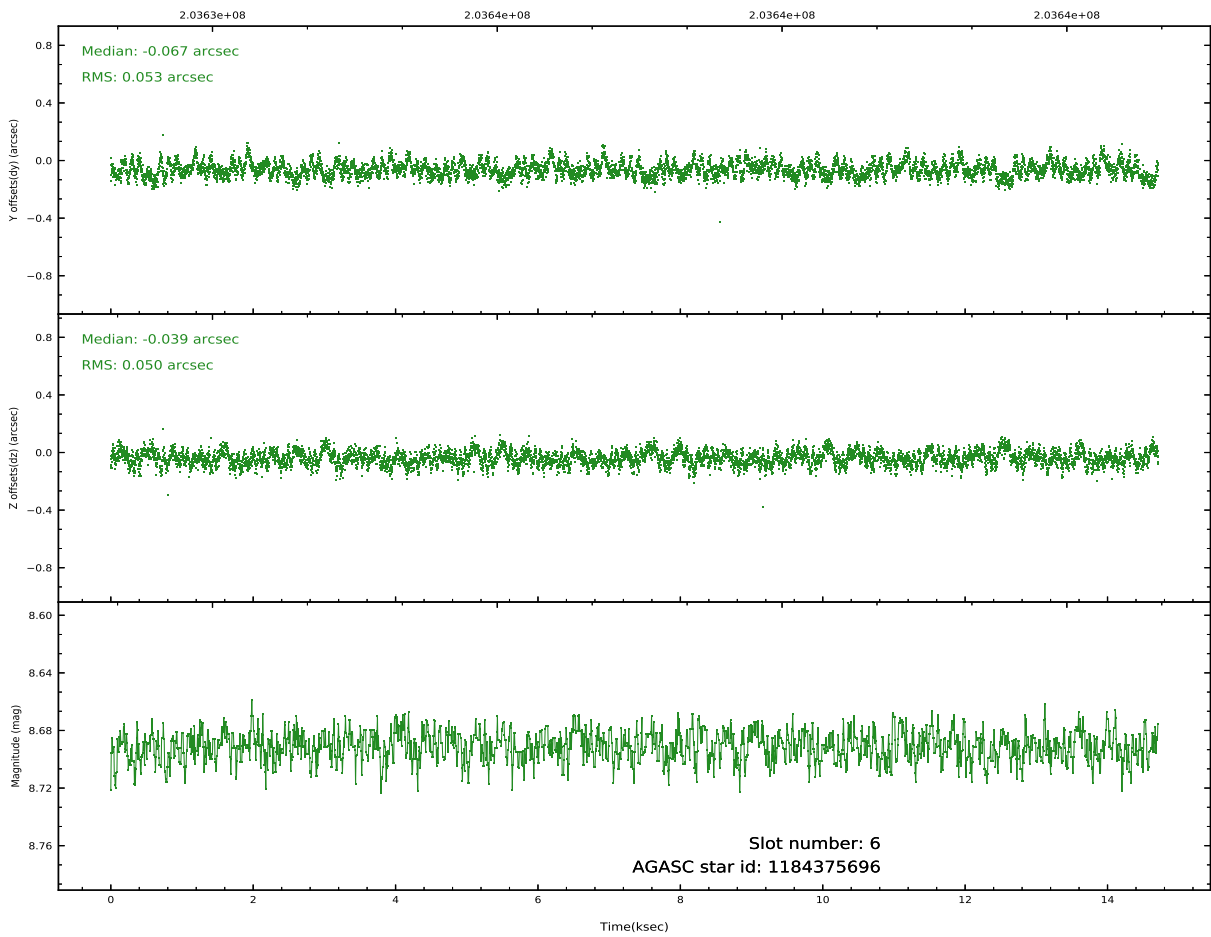
Time (s)



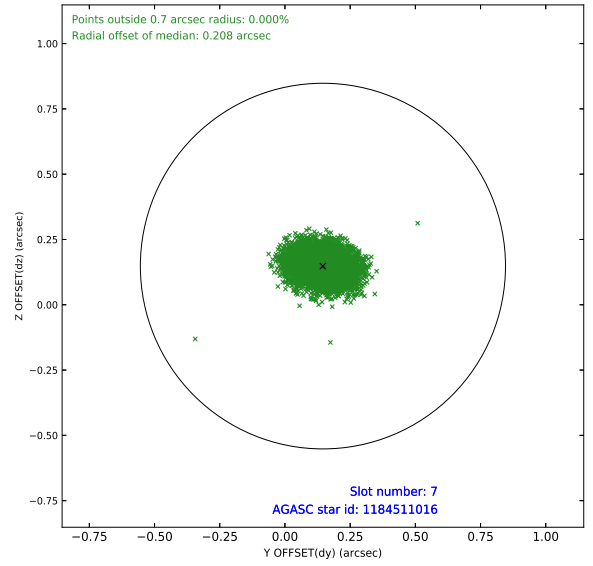
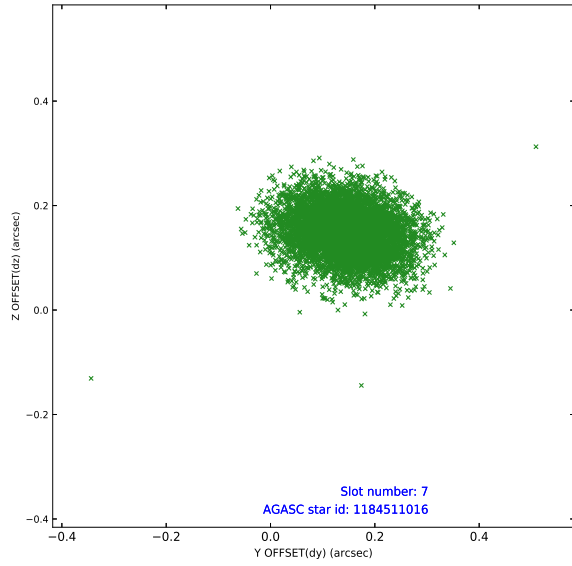
2.4.4 Slot 6



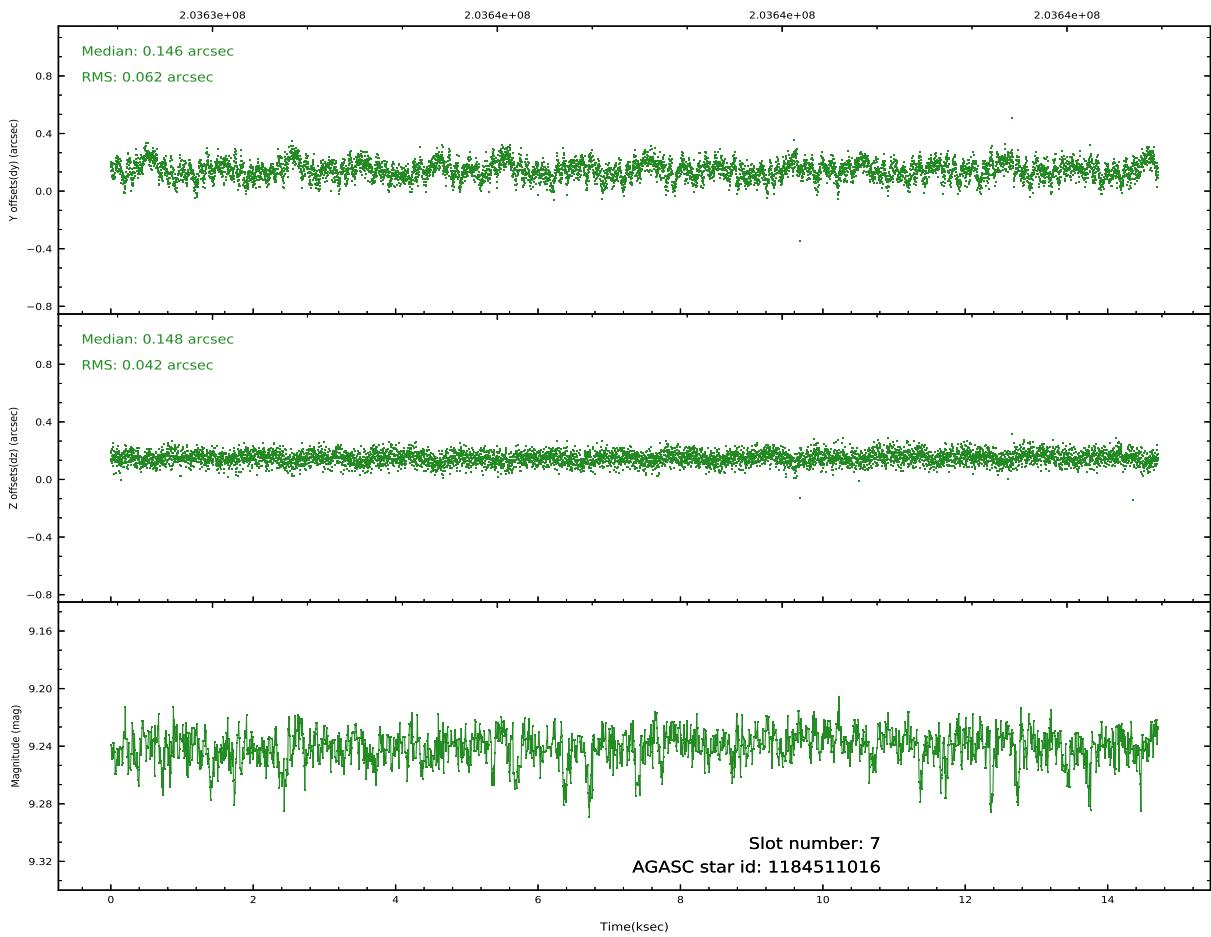
Time (s)



2.4.5 Slot 7

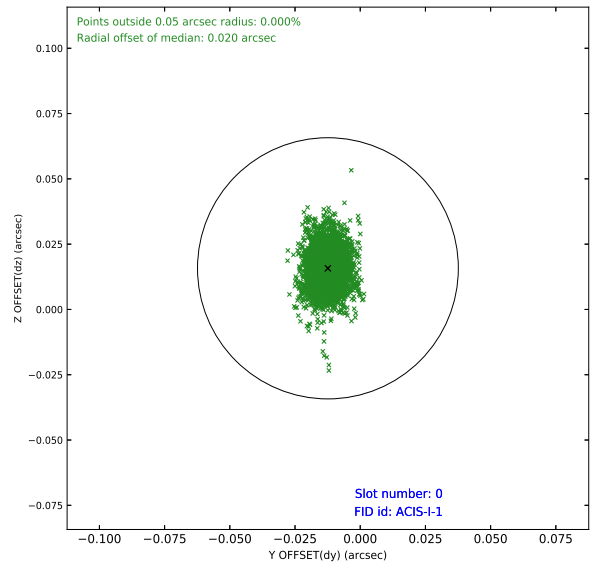
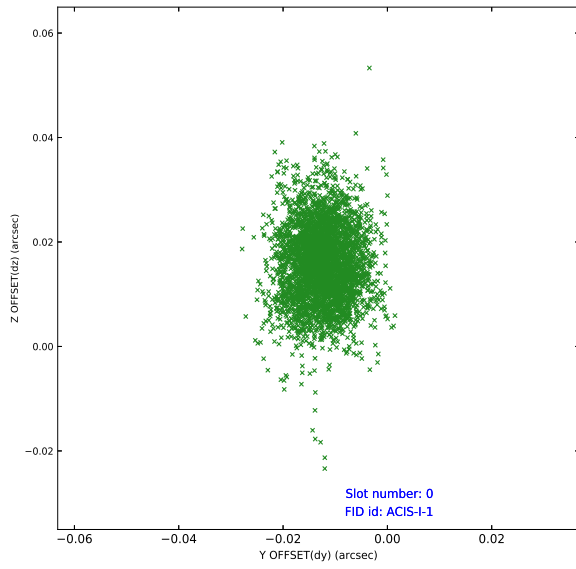


Time (s)

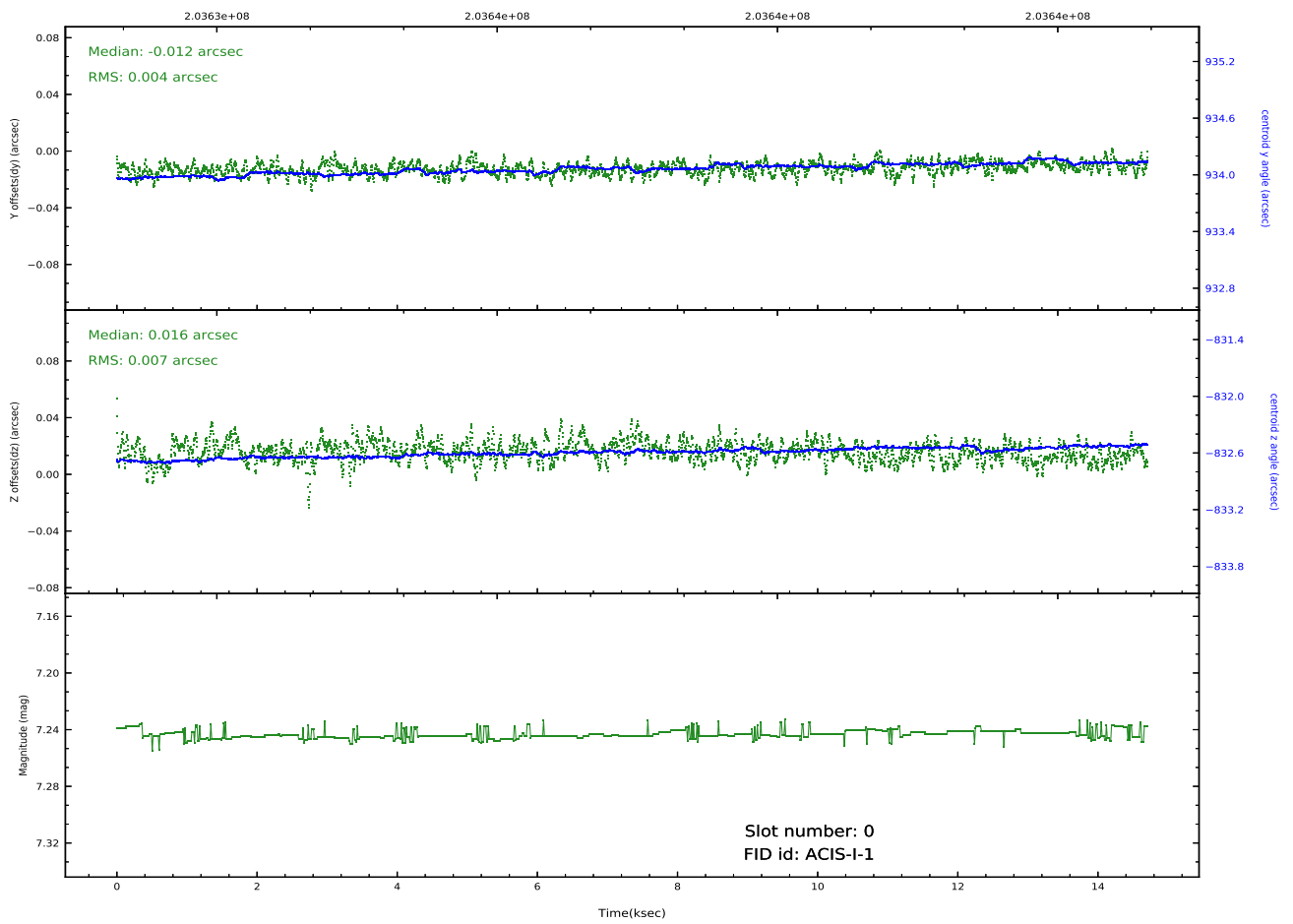


2.5 FID Slots

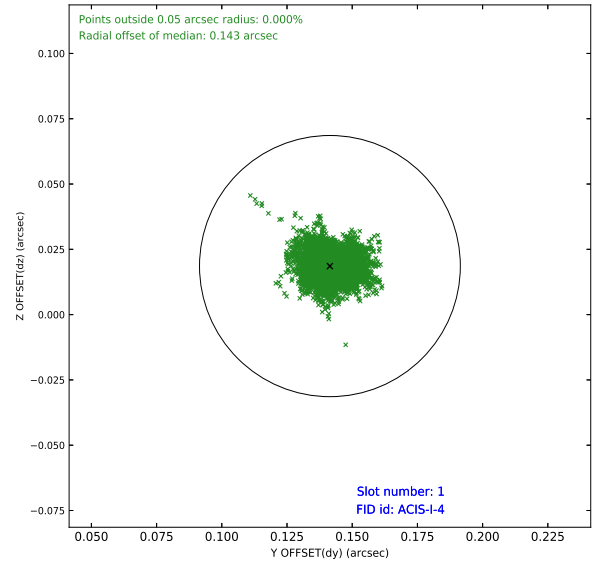
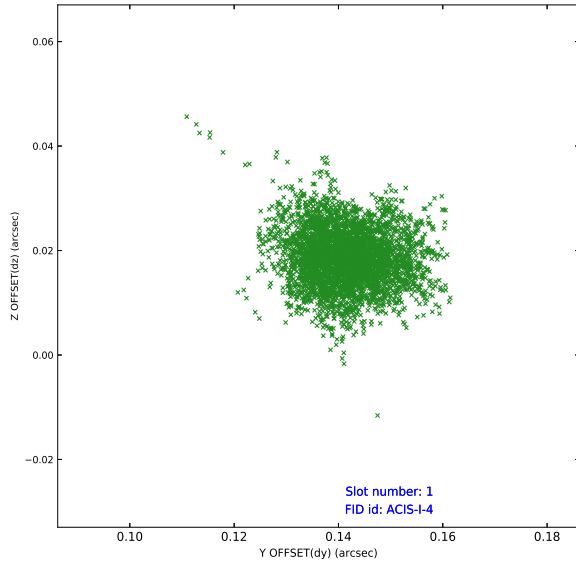
2.5.1 Slot 0



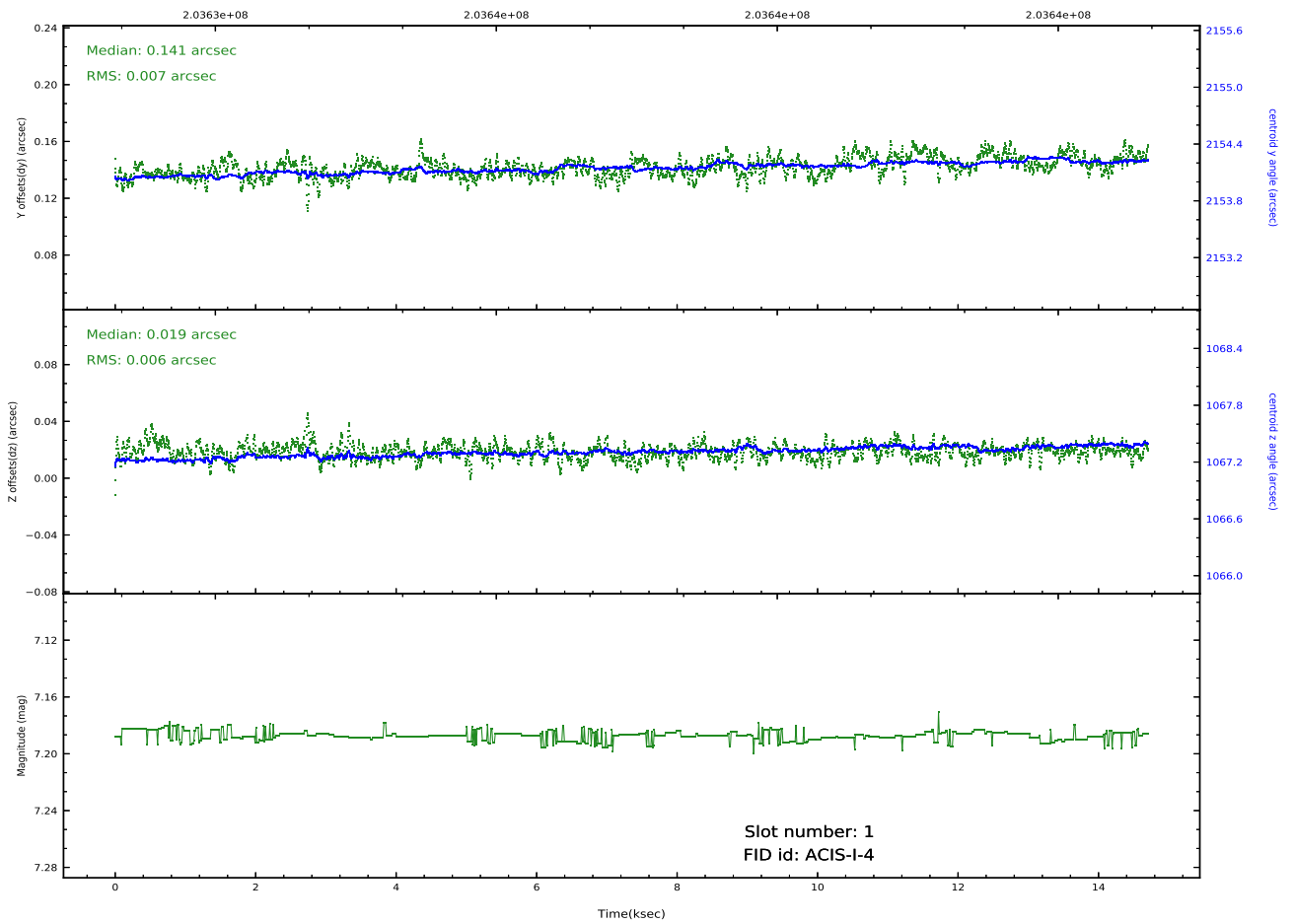
Time (s)



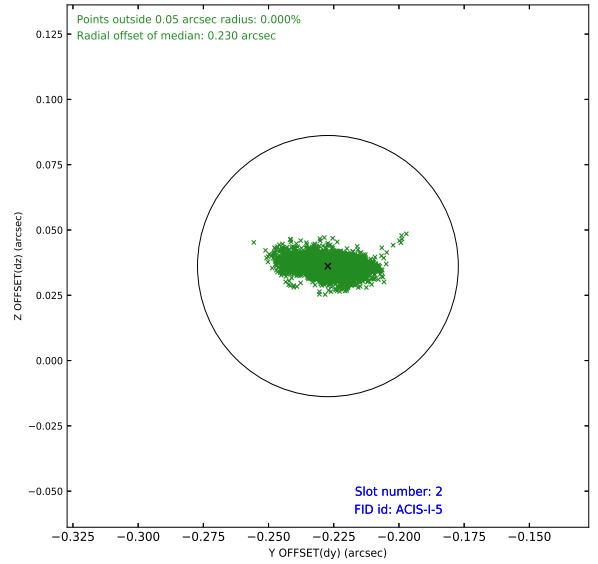
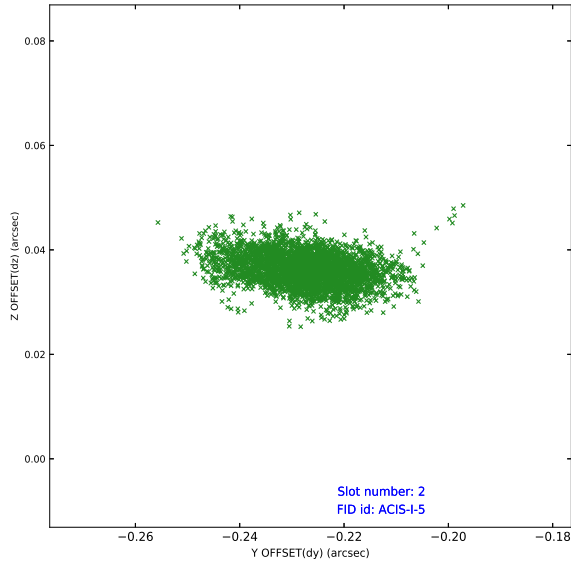
2.5.2 Slot 1



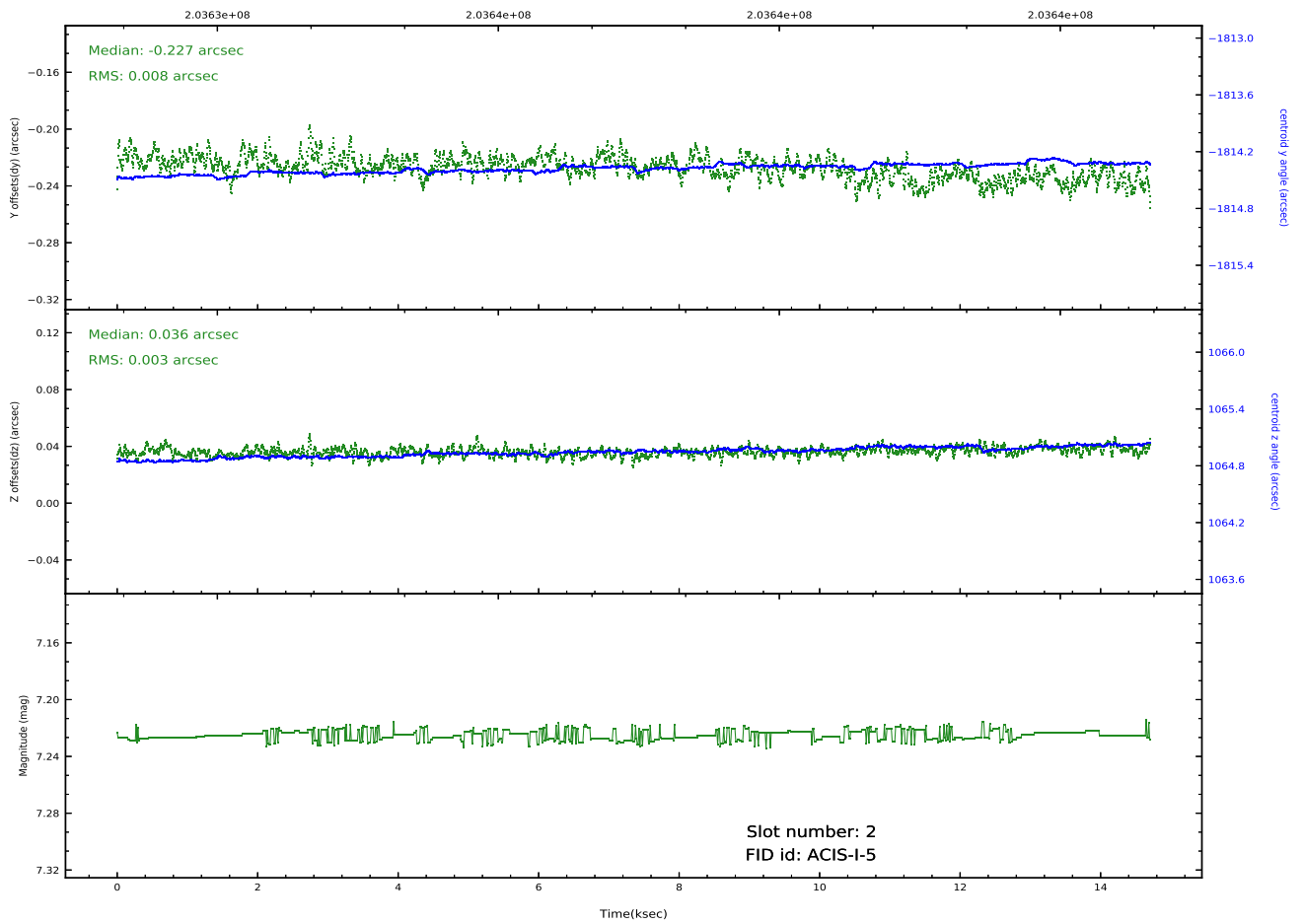
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.3

A.2 Comments

Joint proposal with XMM.