

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 7185 - L2 Version 3
Chandra X-Ray Center

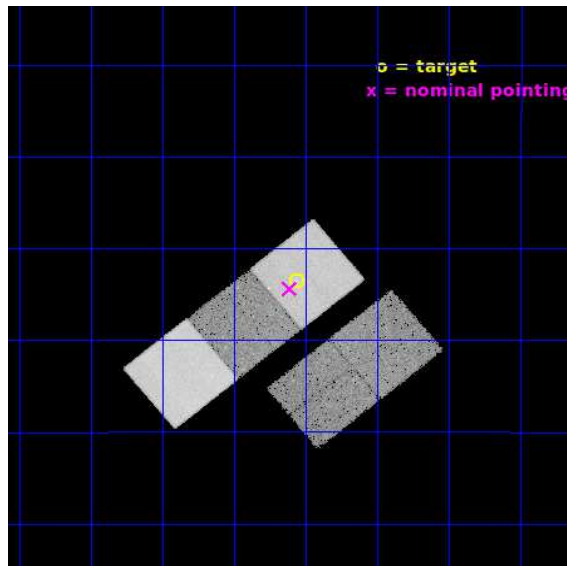
L2 Processing Date : Oct 11 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

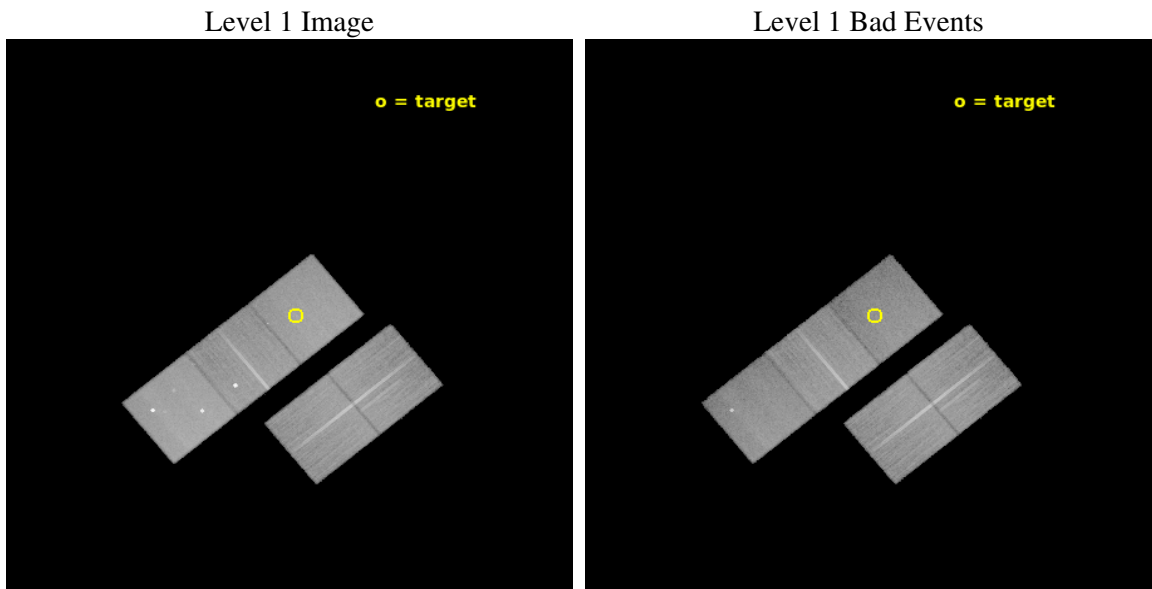
seq_num	800500	Sequence number
obs_id	7185	Observation id
title	A detailed study of a z>1 galaxy cluster	Proposal title
observer	Dr Laurence Jones	Principal investigator
object	2XLSSd J022404.2-041331	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.017083	Observer's specified target RA [deg]
dec_targ	-4.224694	Observer's specified target Dec [deg]
ra_nom	36.028248081905	Nominal RA [deg]
dec_nom	-4.2398786283714	Nominal Dec [deg]
roll_nom	320.64231836284	Nominal Roll [deg]
revision	3	Processing version of data
ontime	33380.799935788	Sum of GTIs [s]
livetime	32944.655210039	Livetime [s]
ontime2	33380.799935788	Sum of GTIs [s]
ontime3	33377.658945531	Sum of GTIs [s]
ontime5	33380.799935788	Sum of GTIs [s]
ontime6	33380.799935788	Sum of GTIs [s]
ontime7	33380.799935788	Sum of GTIs [s]
l2events	299171	Number of level 2 events



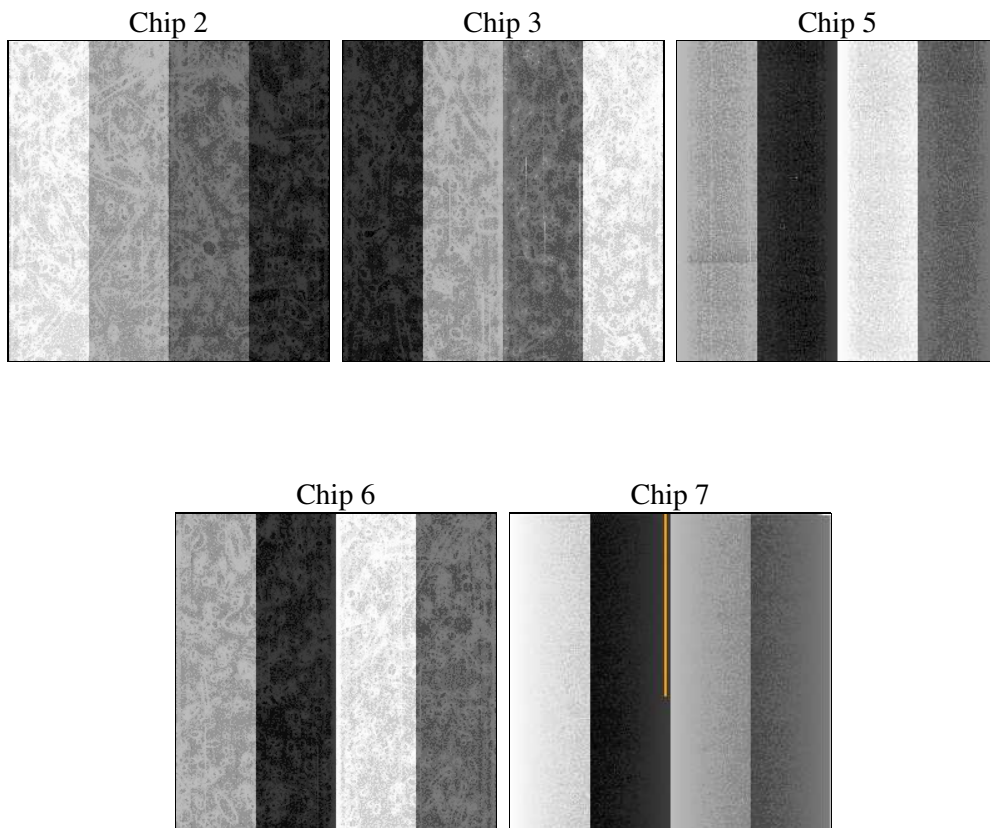
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	33200.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	33380.799935788	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	33380.799935788	Sum of GTIs [s]
date	2020-10-11T16:20:47	Date and time of file creation	ontime3	33377.658945531	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	33380.799935788	Sum of GTIs [s]
			ontime6	33380.799935788	Sum of GTIs [s]
			ontime7	33380.799935788	Sum of GTIs [s]
			l1events	1264654	Number of level 1 events

2.1.4 Events

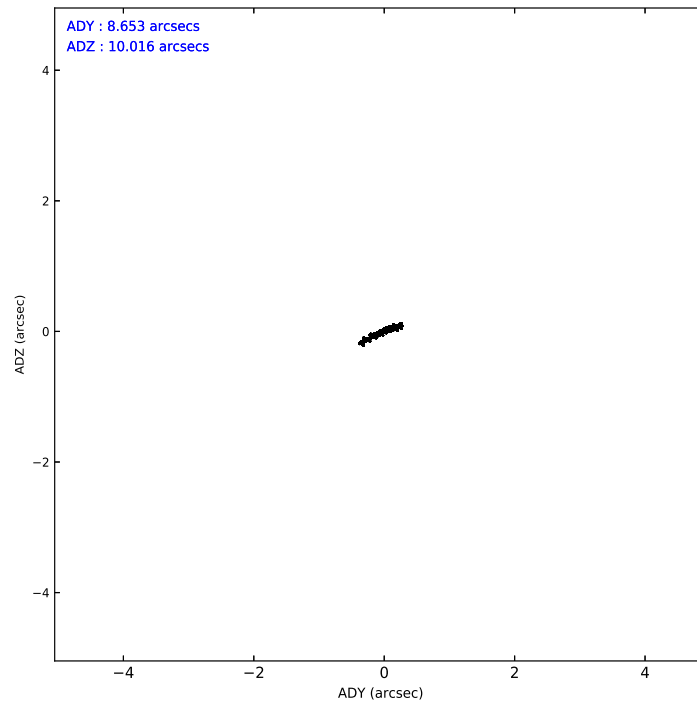
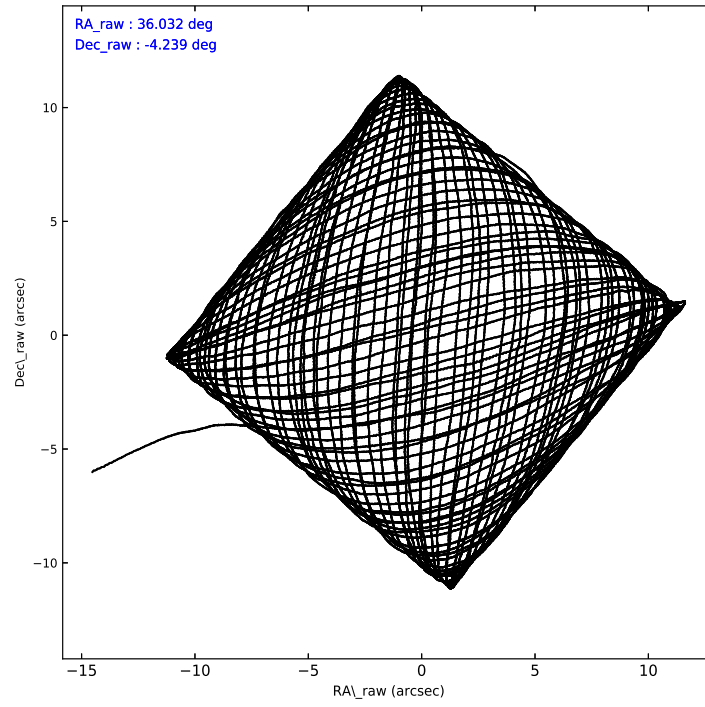
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	233437	221784	317736	240020	251677
rejected events	212782	201463	161112	207563	140295
rejected %	91%	90%	50%	86%	55%

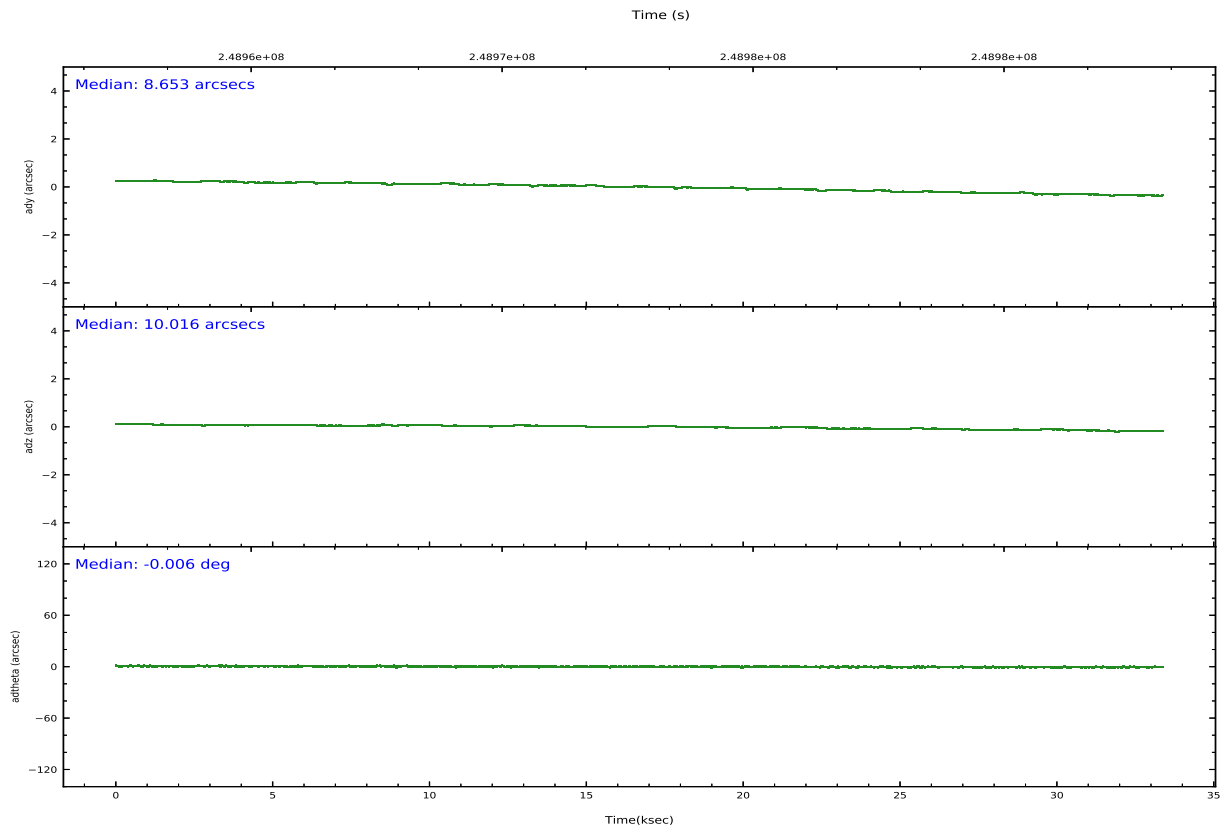
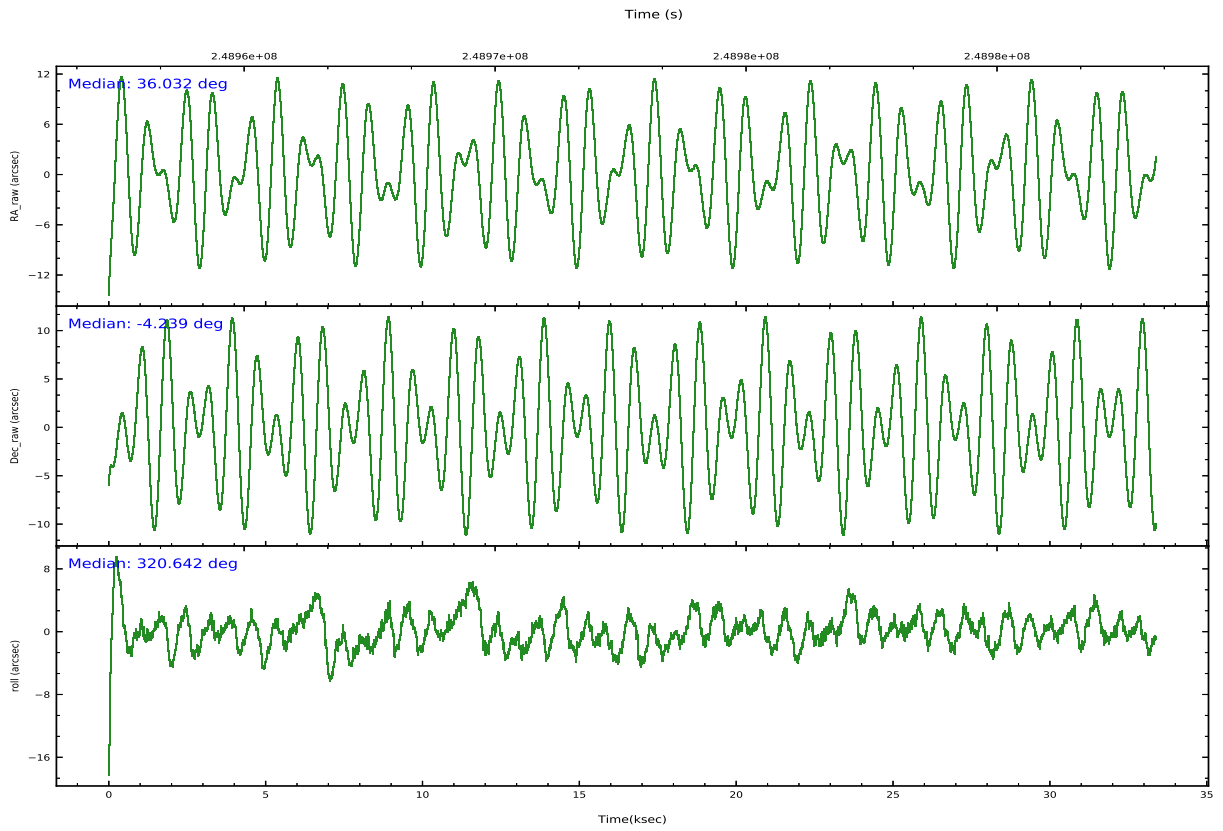
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	7436	7184	17072	17890	9859
	3%	3%	5%	7%	3%
grade 1 events	116	137	2237	151	223
	0%	0%	0%	0%	0%
grade 2 events	4931	4457	50230	4956	23015
	2%	2%	15%	2%	9%
grade 3 events	2330	2467	6639	2709	10594
	0%	1%	2%	1%	4%
grade 4 events	2405	2402	6379	2480	10649
	1%	1%	2%	1%	4%
grade 5 events	6898	8905	24844	9152	27058
	2%	4%	7%	3%	10%
grade 6 events	3929	4151	79023	4978	59084
	1%	1%	24%	2%	23%
grade 7 events	205392	192081	131312	197704	111195
	87%	86%	41%	82%	44%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23567	ACIS-23567	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	36.005020	36.028248081905	Subarray requested	NONE	NONE
[deg] Pointing Dec	-4.235083	-4.2398786283714	Alternating exposures requested	N	N
[deg] Pointing Roll	320.482492	320.64231836284	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	248955871.184000	248954445.74128			
Observation start date	2005-11-21T10:23:27	2005-11-21T10:00:45			
[s] Observation end time (MET)	248989071.184000	248990243.86793			
Observation end date	2005-11-21T19:36:47	2005-11-21T19:57:23			
Read mode	TIMED	TIMED			

2.3 Aspect





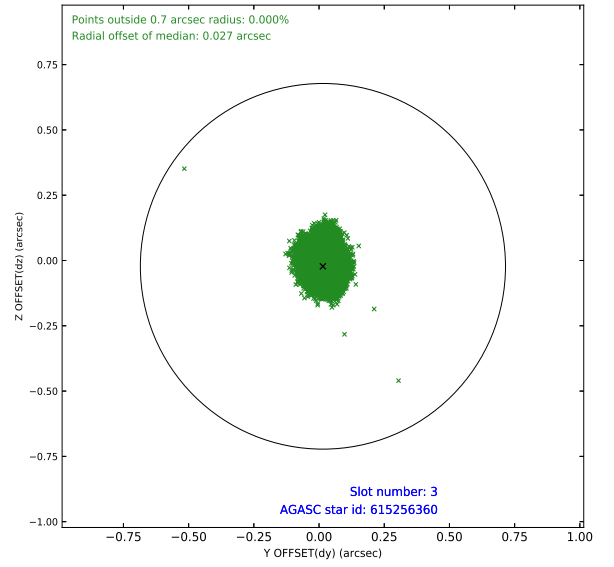
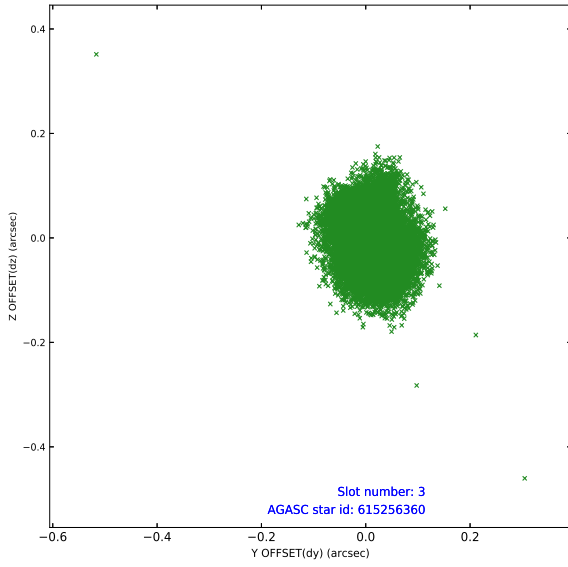
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	8144	1.000	0.065	-0.072	0.007	0.012	0.000000	0.000000	934.70	-1726
1	FID		ACIS-S-5	7.24	8144	1.000	-0.170	0.020	0.009	0.013	0.000000	0.000000	-1814.53	170
2	FID		ACIS-S-6	7.36	8143	1.000	0.084	0.063	0.010	0.015	0.000000	0.000000	400.18	814
3	GUIDE	used	615256360	7.78	16287	1.000	0.015	-0.022	0.070	0.114	36.286608	-3.875886	-42.38	1641
4	GUIDE	used	615256944	9.80	16262	1.000	0.053	-0.001	0.191	0.325	35.497386	-4.510719	-773.39	-1924
5	GUIDE	used	615260160	9.72	16278	1.000	-0.052	0.010	0.100	0.164	35.737387	-3.921265	-1459.88	259
6	GUIDE	used	615260392	7.64	16288	1.000	-0.120	0.059	0.086	0.140	35.914136	-3.376682	-2218.82	2176
7	GUIDE	used	615254552	9.20	16272	1.000	0.093	-0.037	0.116	0.182	36.600600	-3.877551	831.53	2353

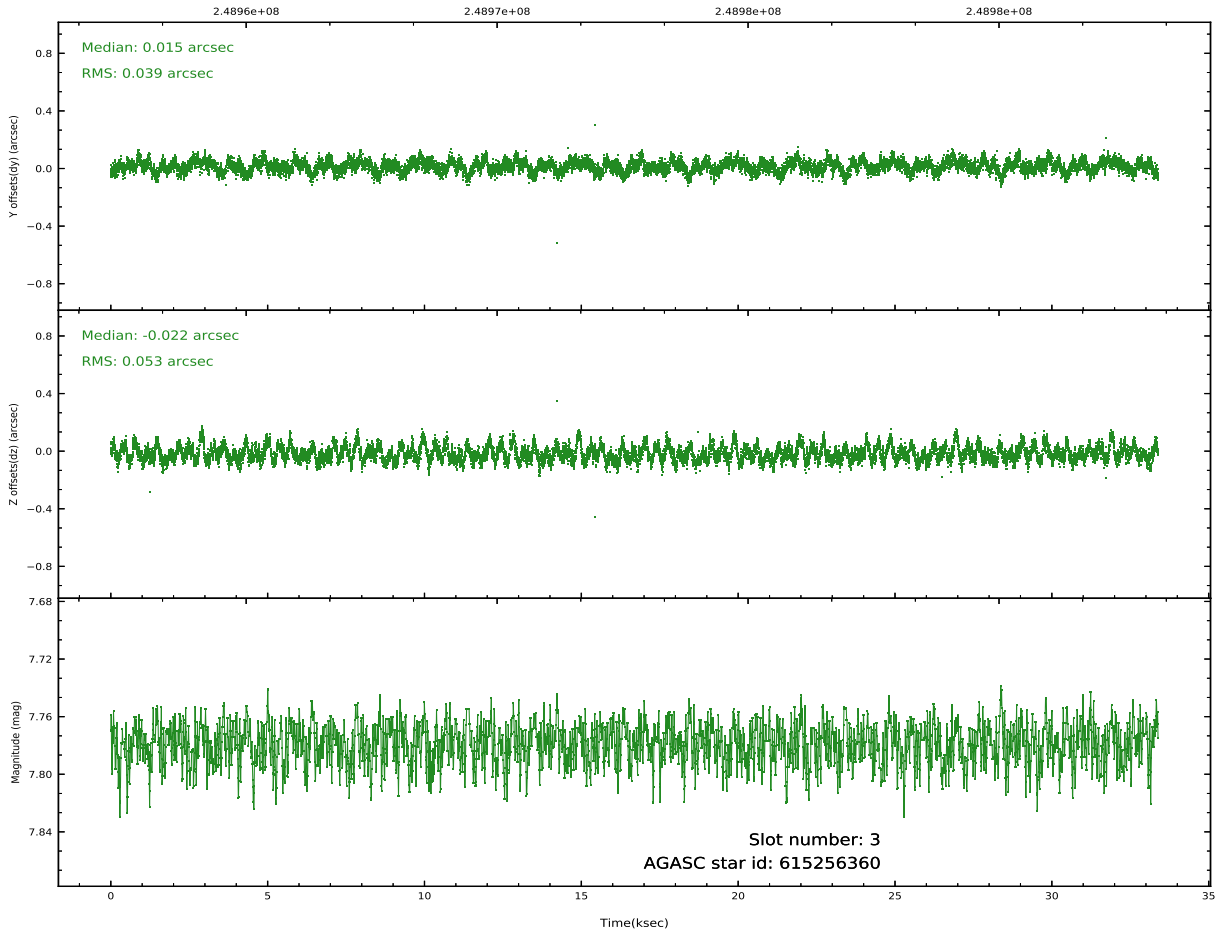
∞

2.4 Star Slots

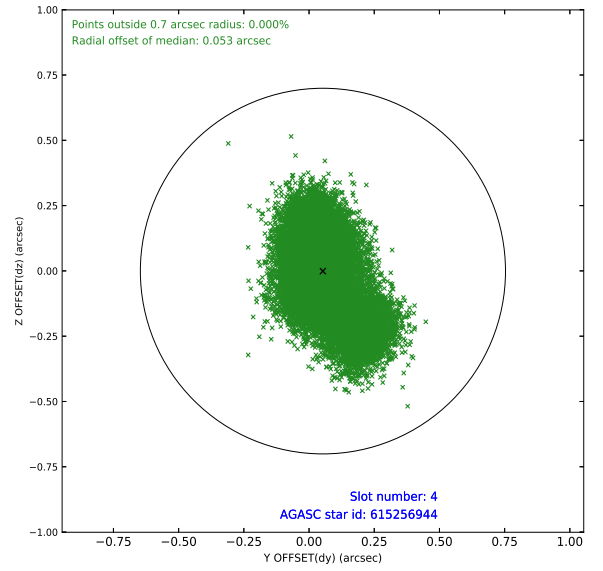
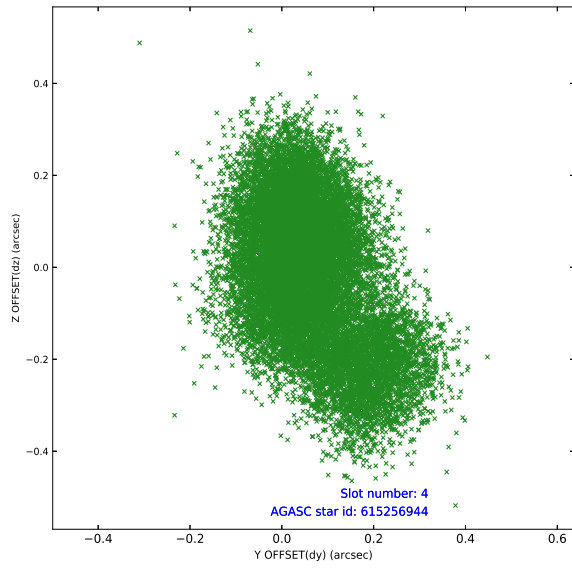
2.4.1 Slot 3



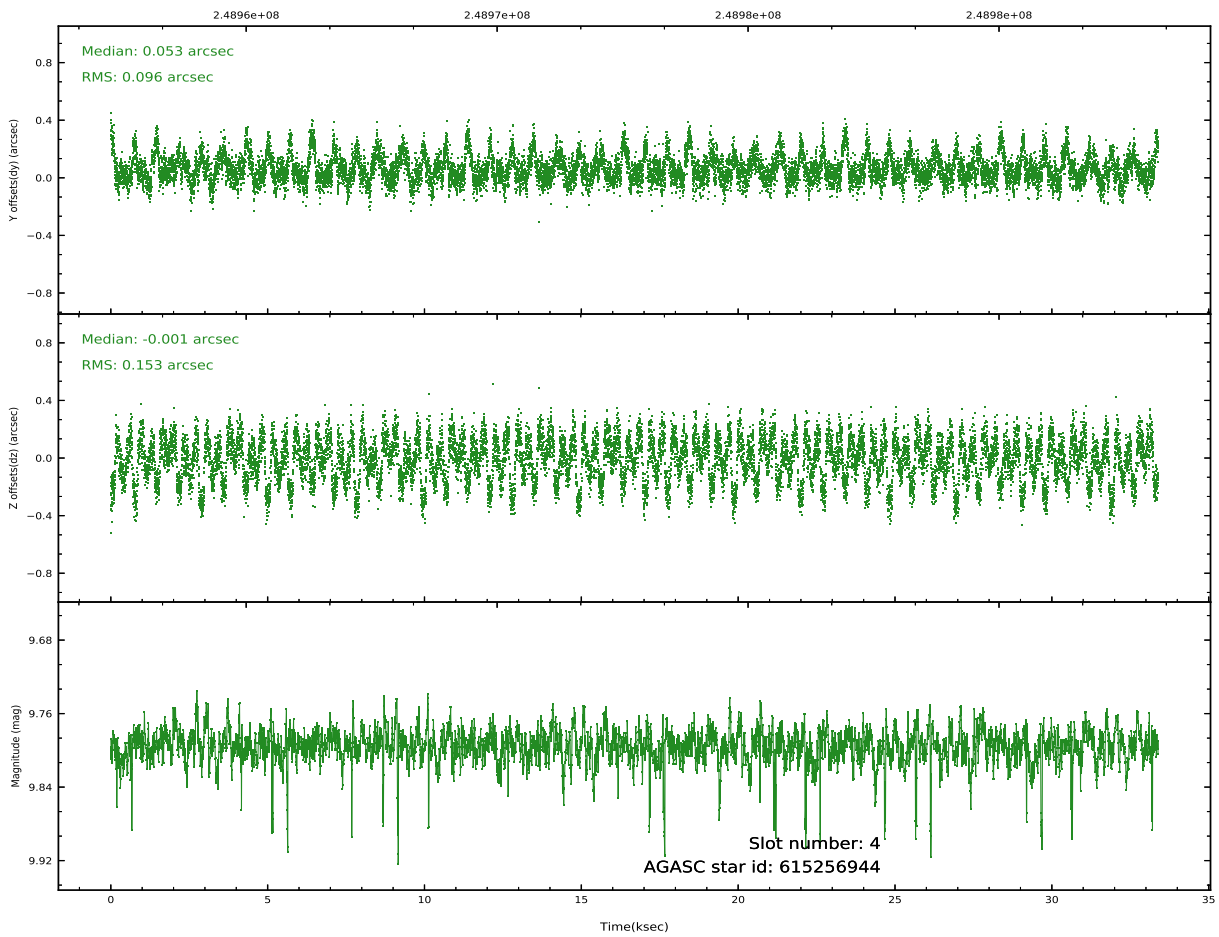
Time (s)



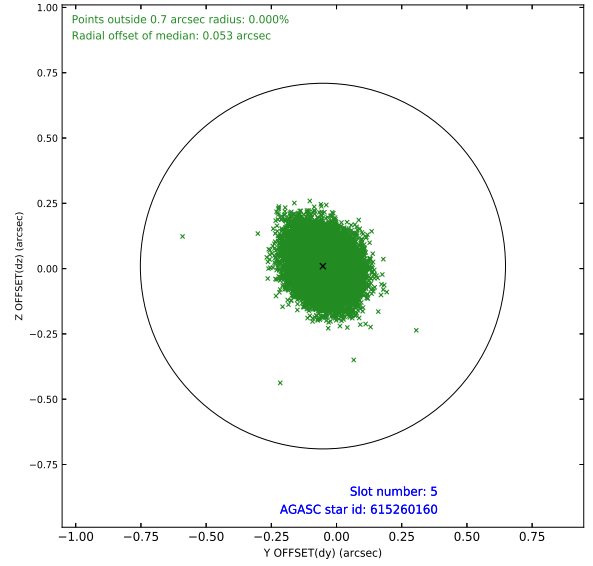
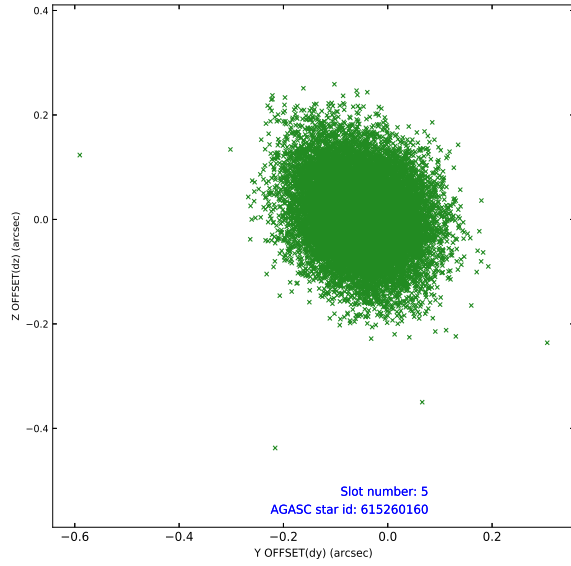
2.4.2 Slot 4



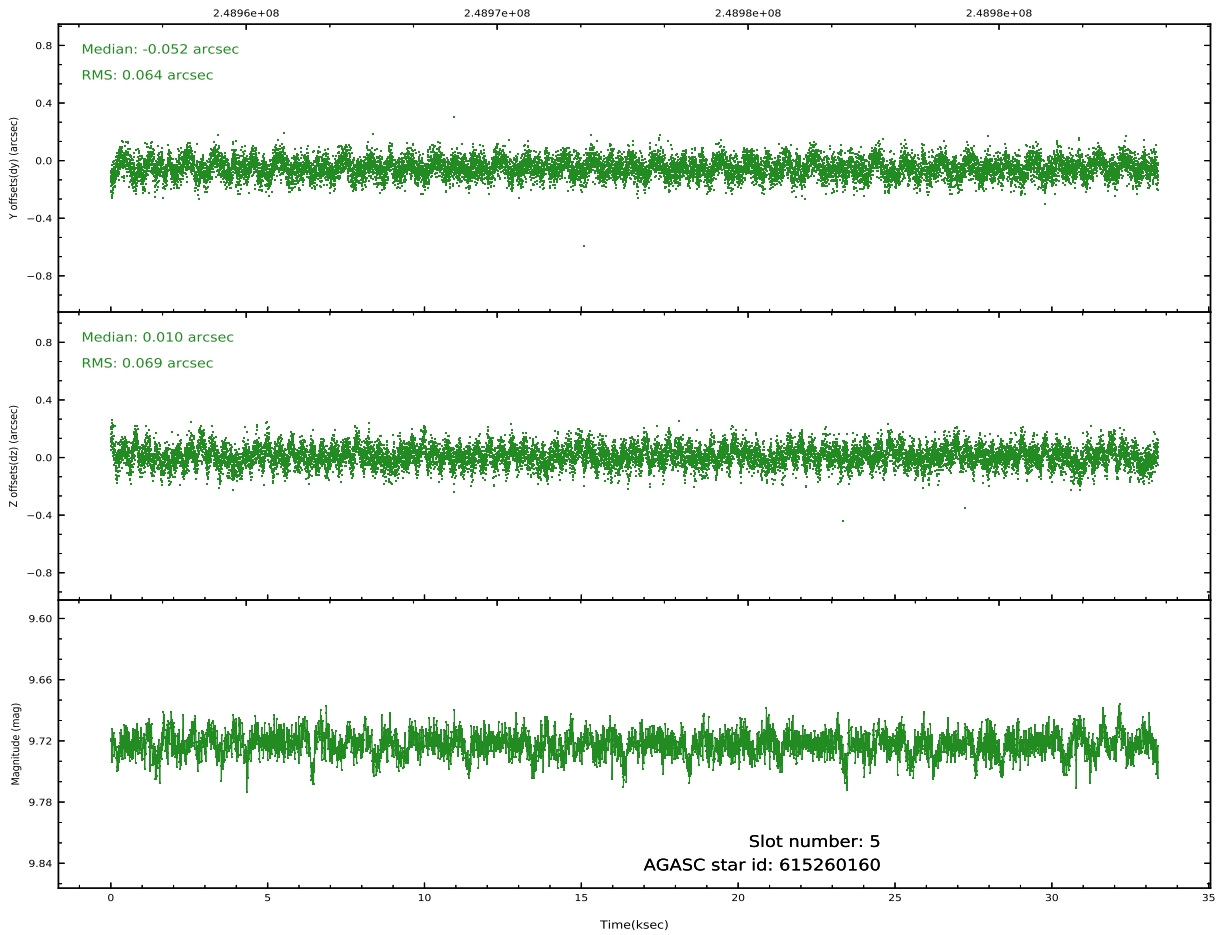
Time (s)



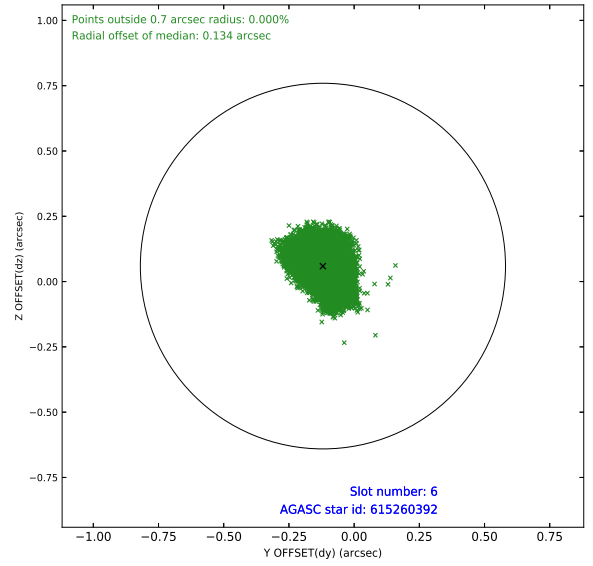
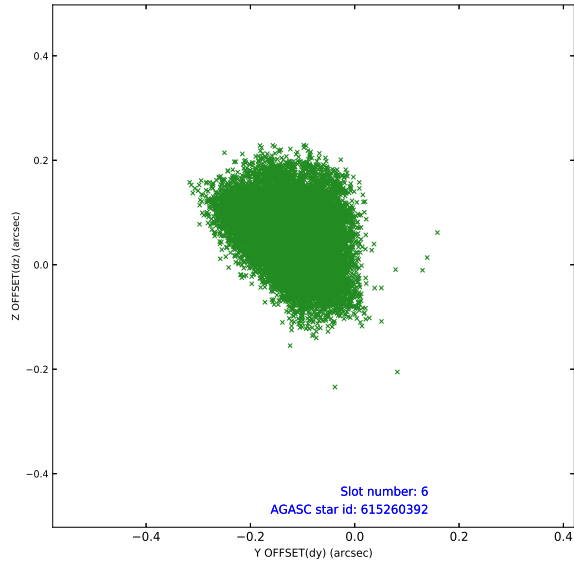
2.4.3 Slot 5



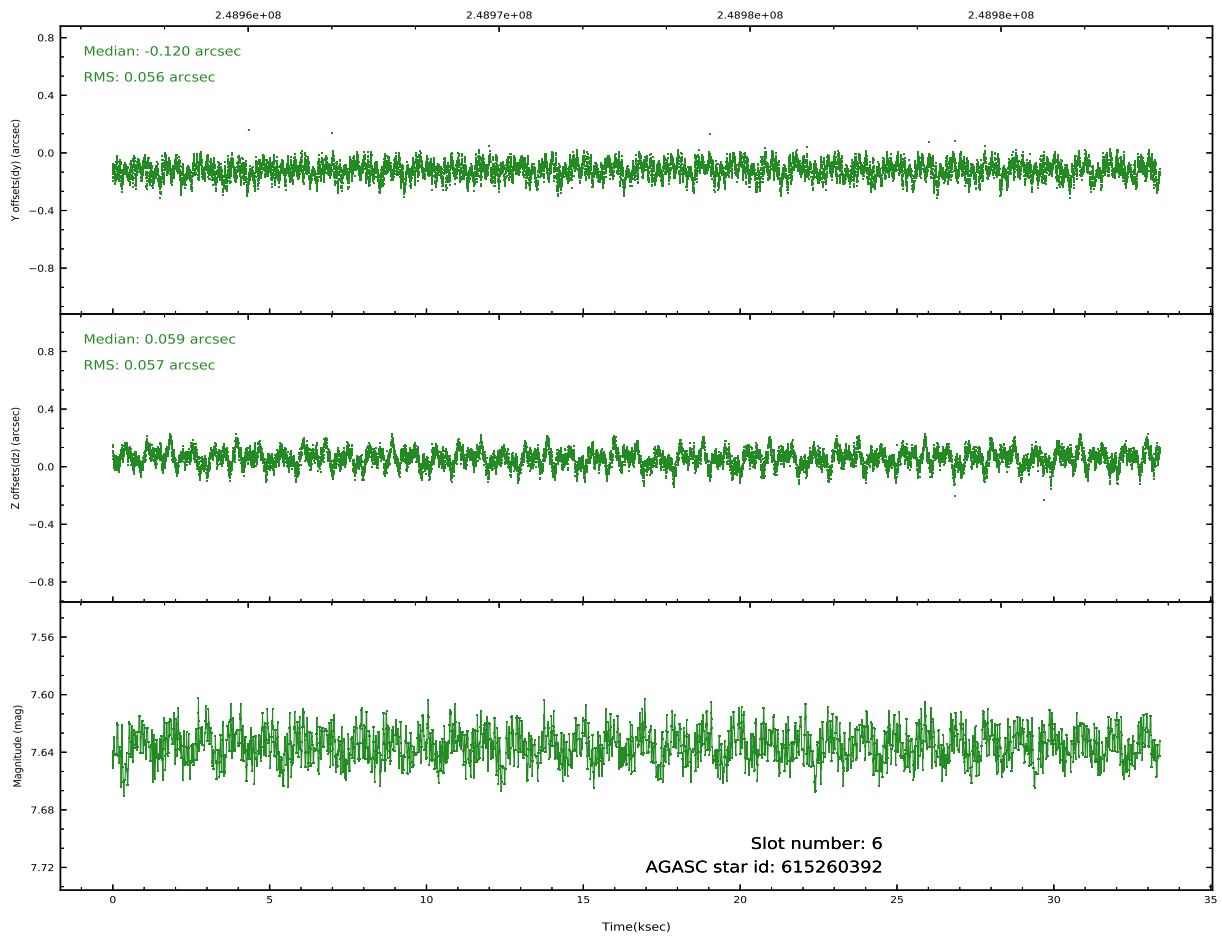
Time (s)



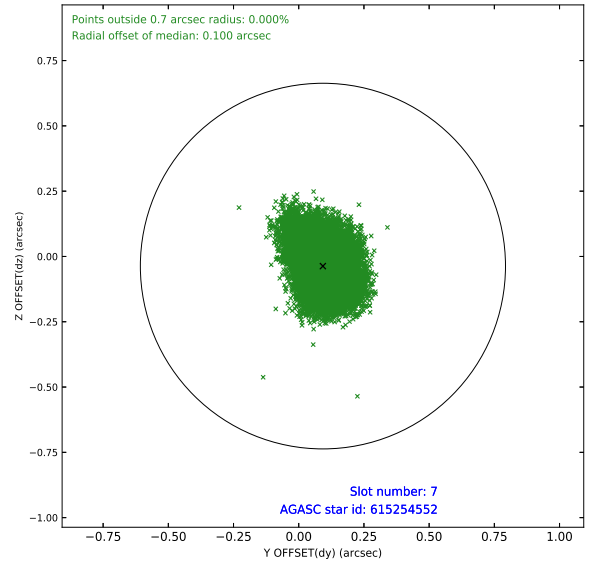
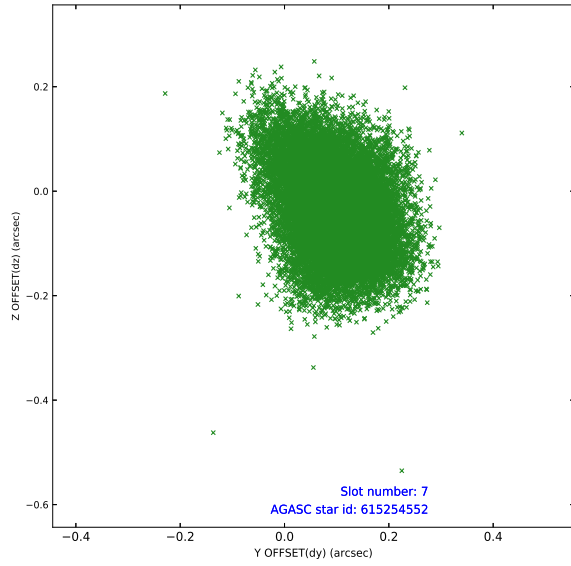
2.4.4 Slot 6



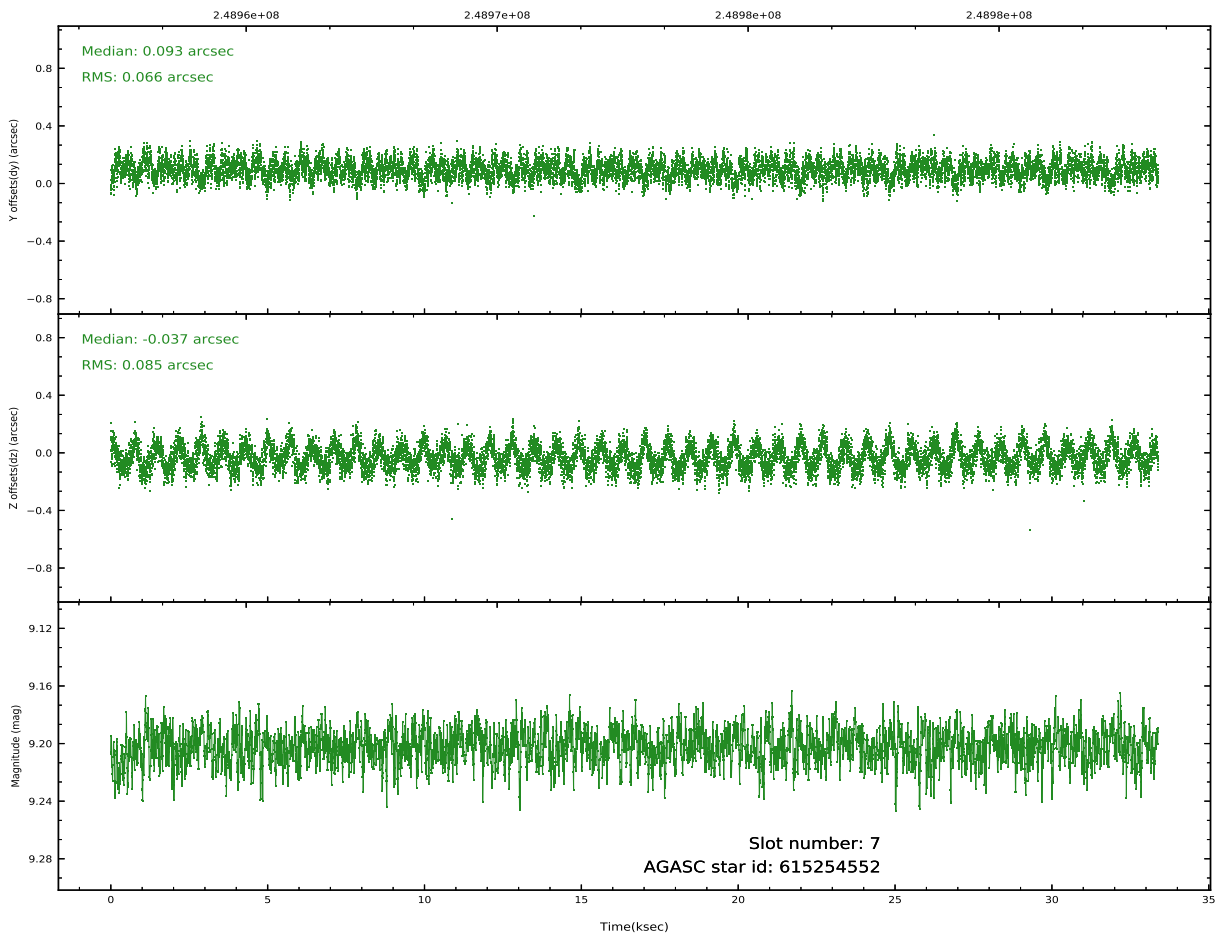
Time (s)



2.4.5 Slot 7

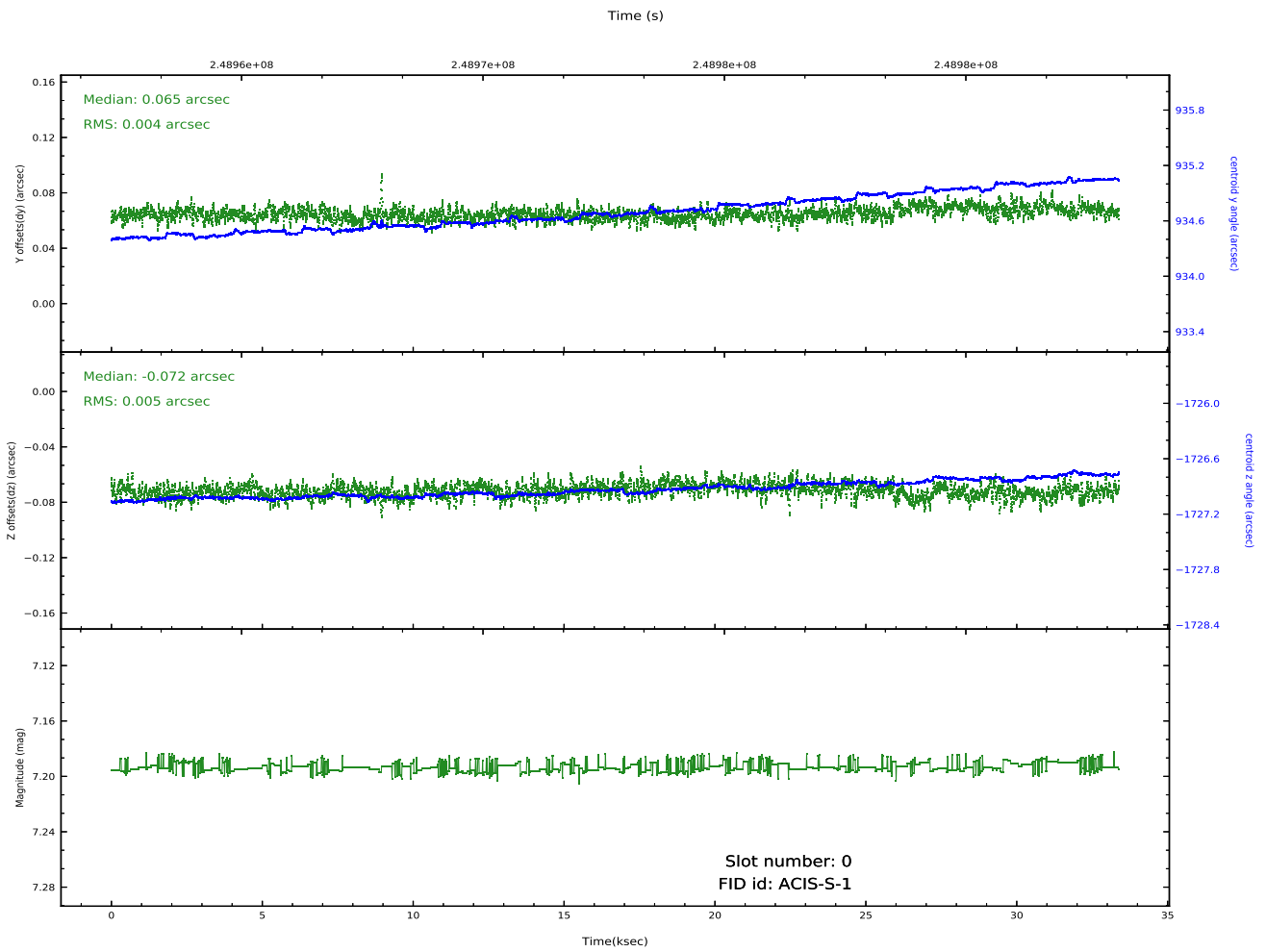
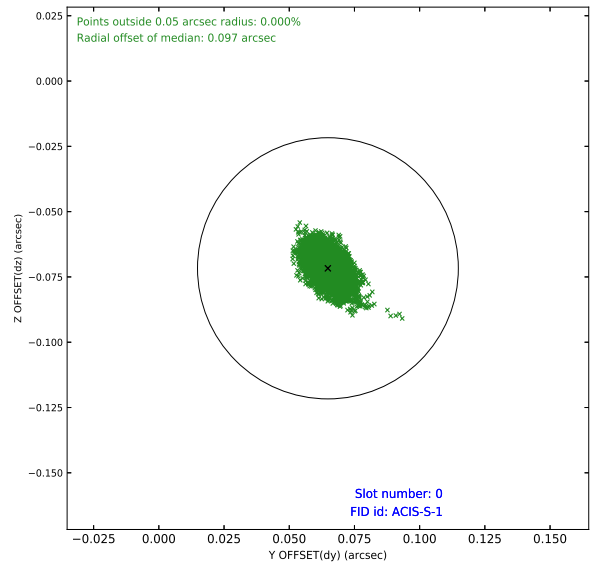
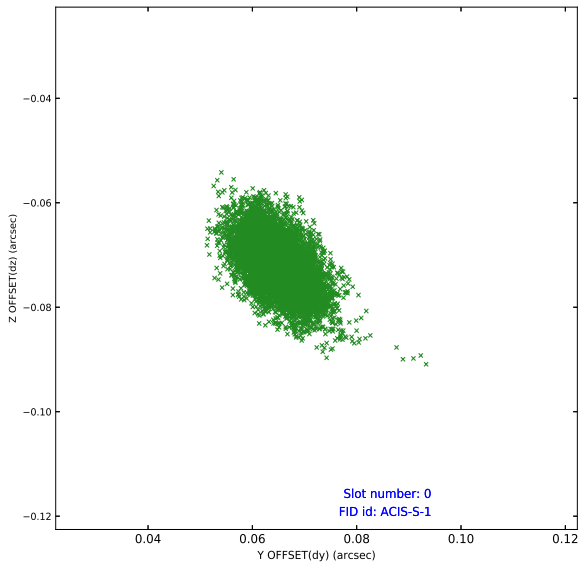


Time (s)

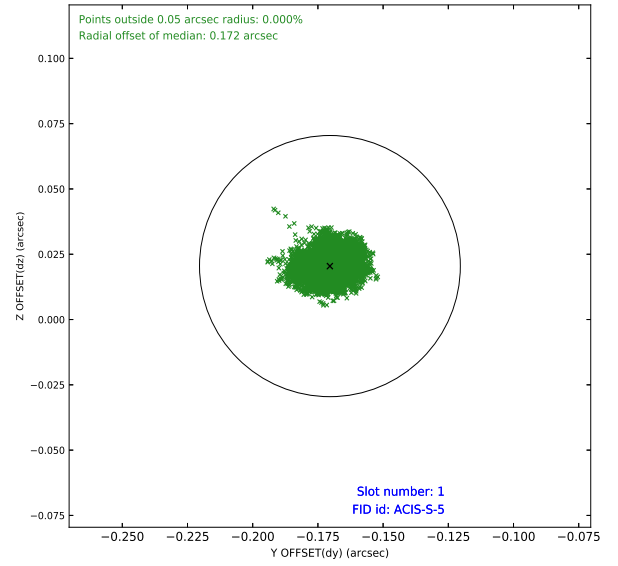
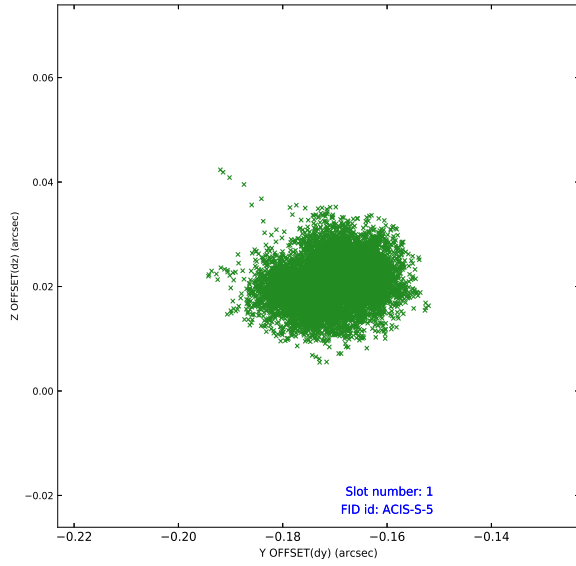


2.5 FID Slots

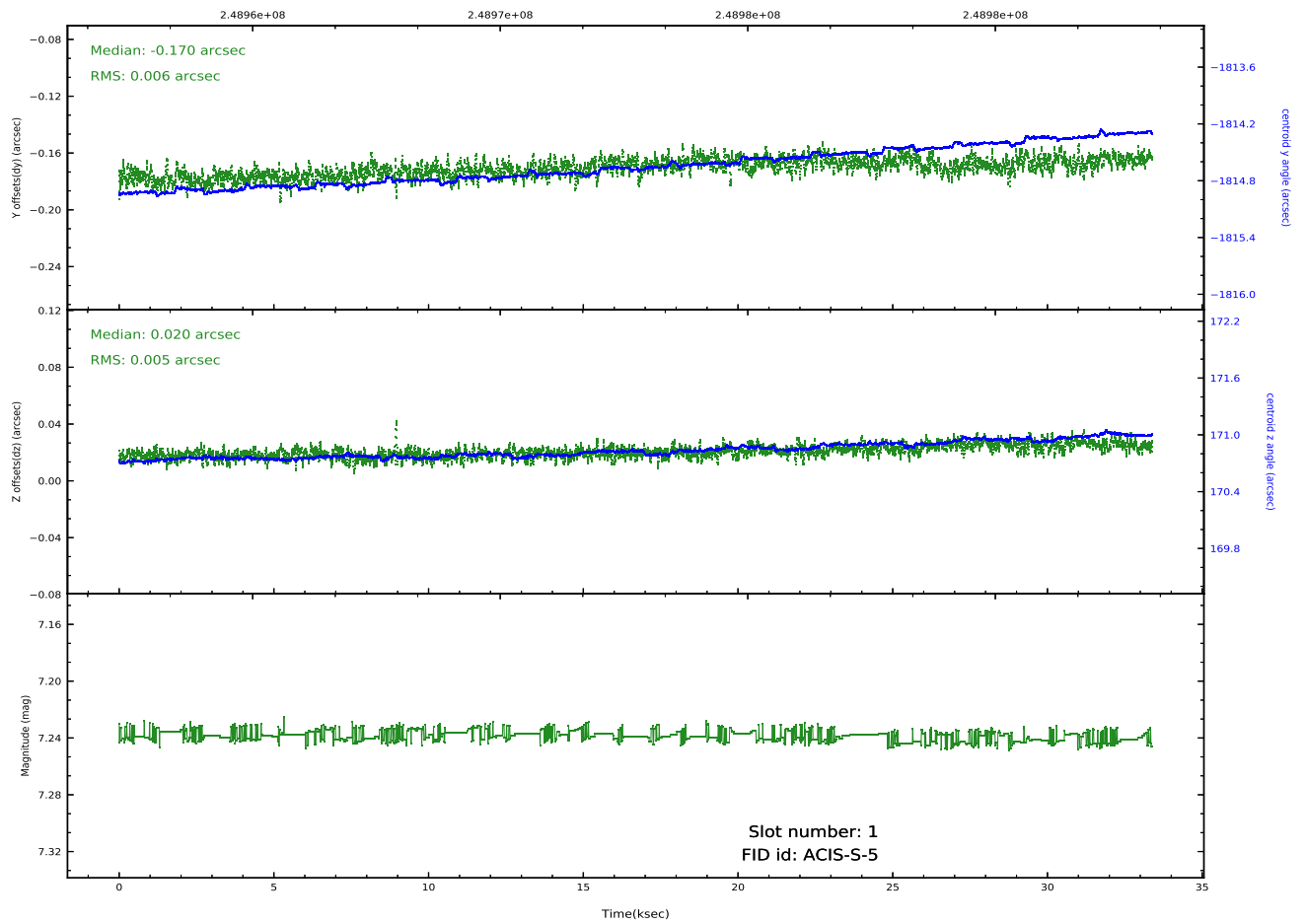
2.5.1 Slot 0



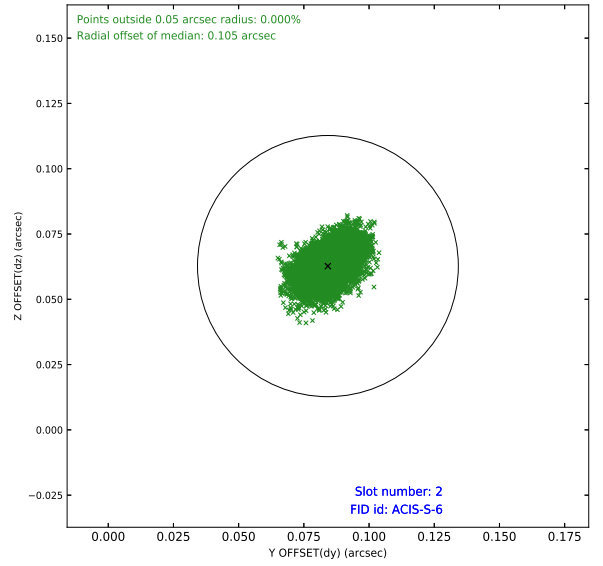
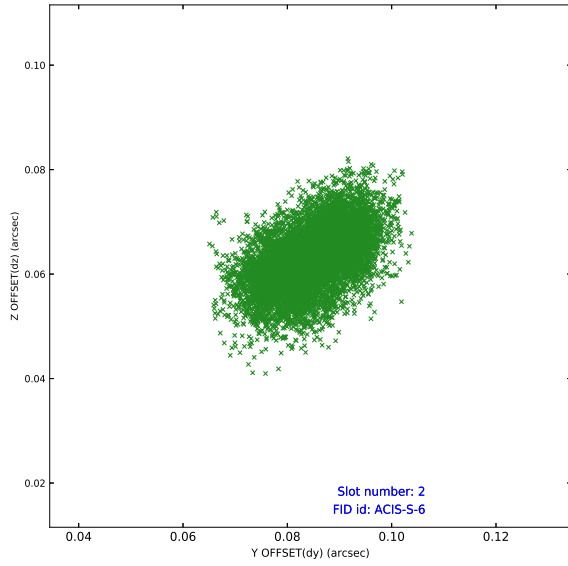
2.5.2 Slot 1



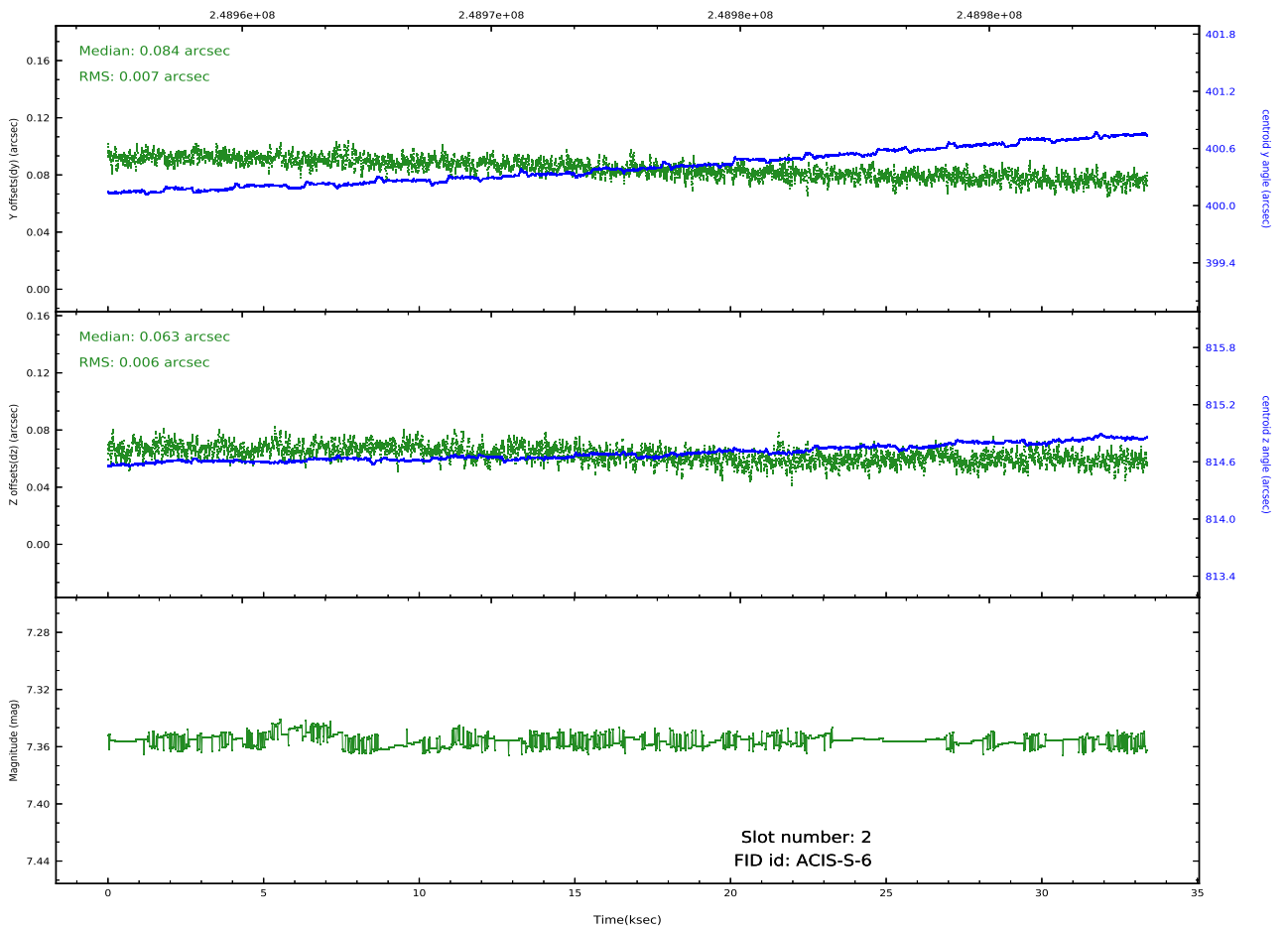
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.38079

A.2 Comments

Joint proposal with XMM.