

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19428 - L2 Version 2
Chandra X-Ray Center

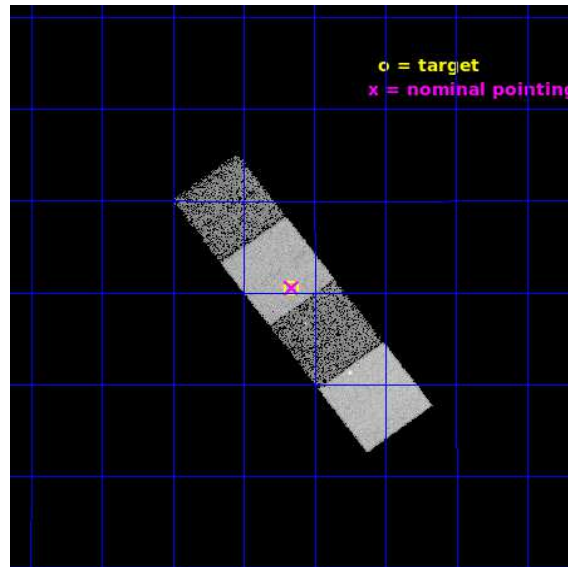
L2 Processing Date : Oct 25 2020

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1 Front

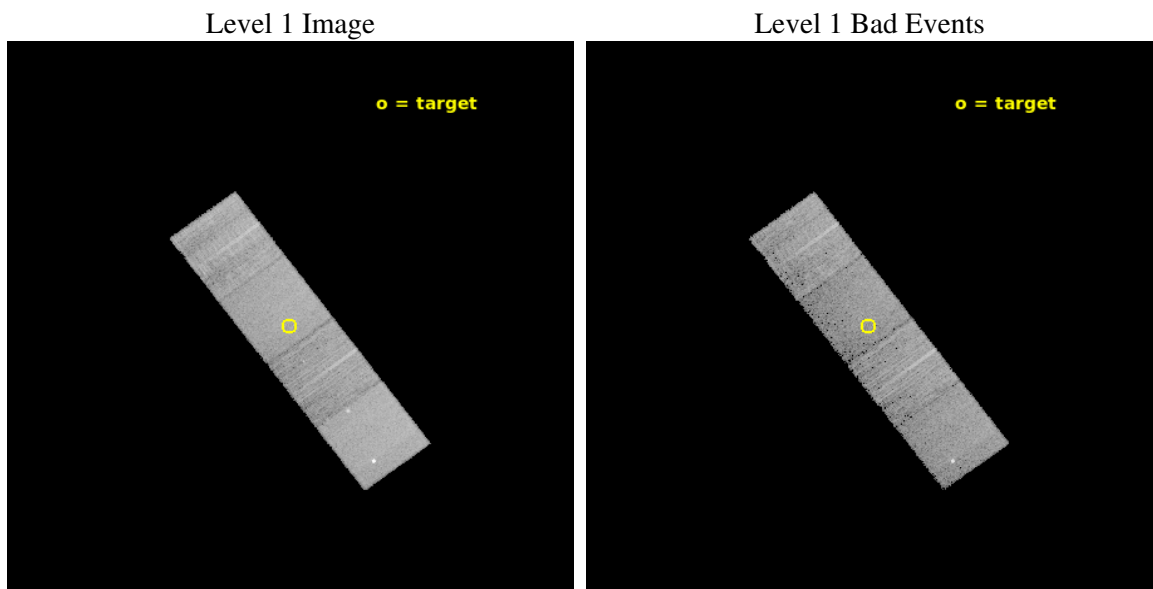
seq_num	601385	Sequence number
obs_id	19428	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	NGC 4522	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	188.415417	Observer's specified target RA [deg]
dec_targ	9.175028	Observer's specified target Dec [deg]
ra_nom	188.41487815397	Nominal RA [deg]
dec_nom	9.1759728375466	Nominal Dec [deg]
roll_nom	233.35639920165	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7908.1000609398	Sum of GTIs [s]
livetime	7804.774911785	Livetime [s]
ontime5	7908.1000609398	Sum of GTIs [s]
ontime6	7904.959010601	Sum of GTIs [s]
ontime7	7908.1000609398	Sum of GTIs [s]
ontime8	7895.5358800888	Sum of GTIs [s]
l2events	86326	Number of level 2 events



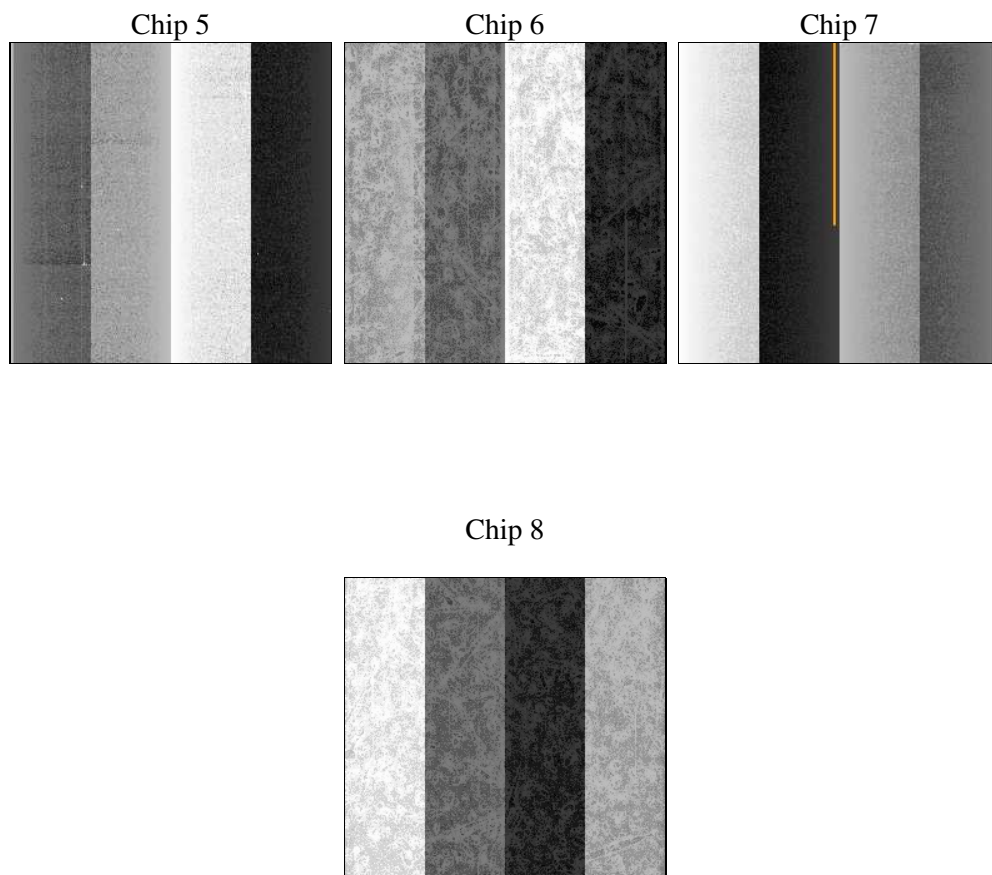
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	7908.1000609398	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	7908.1000609398	Sum of GTIs [s]
date	2020-10-25T21:04:08	Date and time of file creation	ontime6	7904.959010601	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	7908.1000609398	Sum of GTIs [s]
			ontime8	7895.5358800888	Sum of GTIs [s]
			l1events	309142	Number of level 1 events

2.1.4 Events

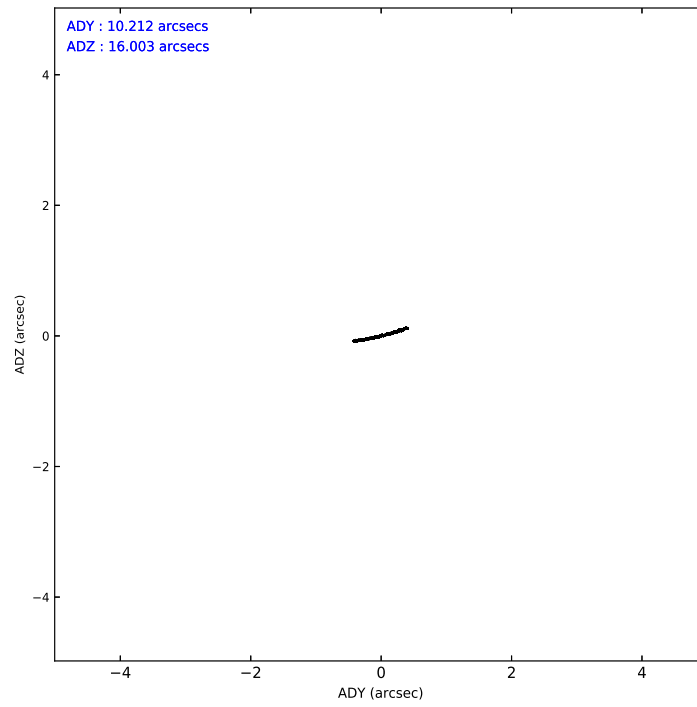
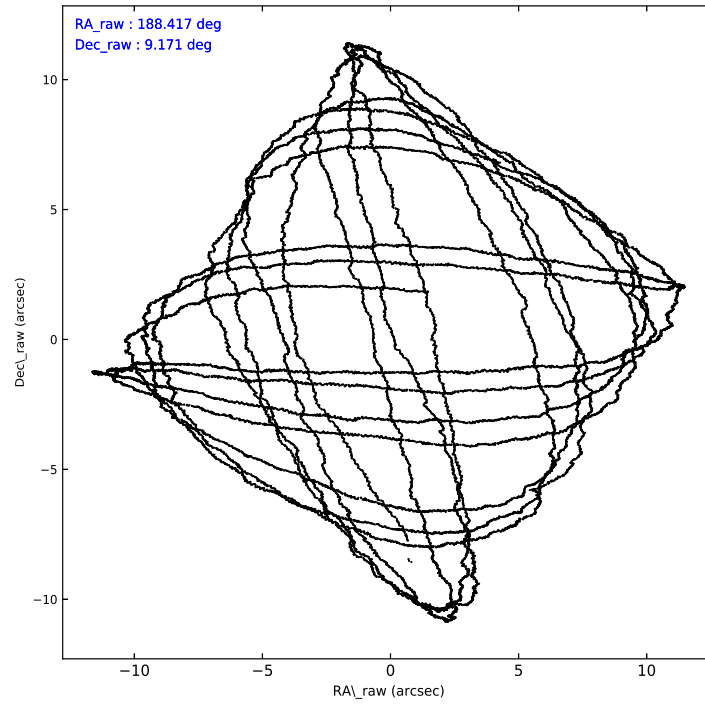
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	93934	61004	75840	78364
rejected events	48862	54219	43103	58912
rejected %	52%	88%	56%	75%

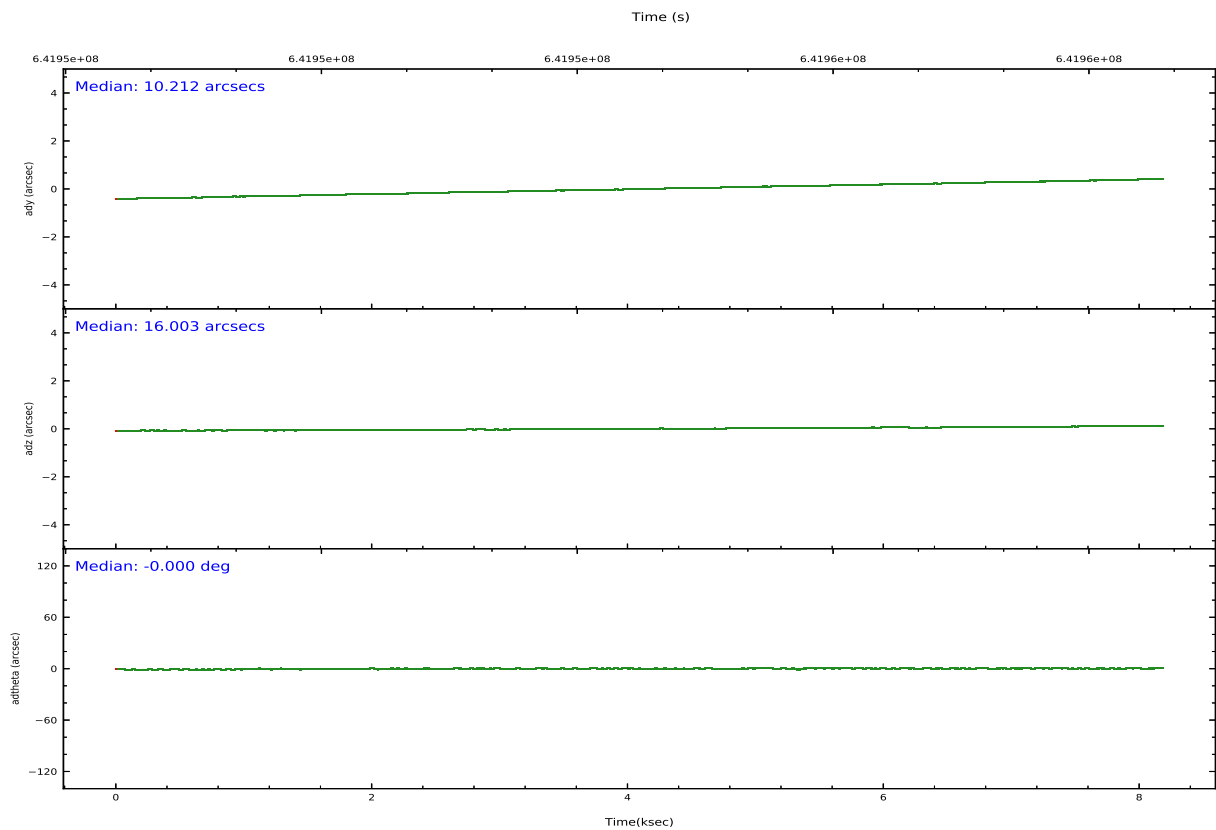
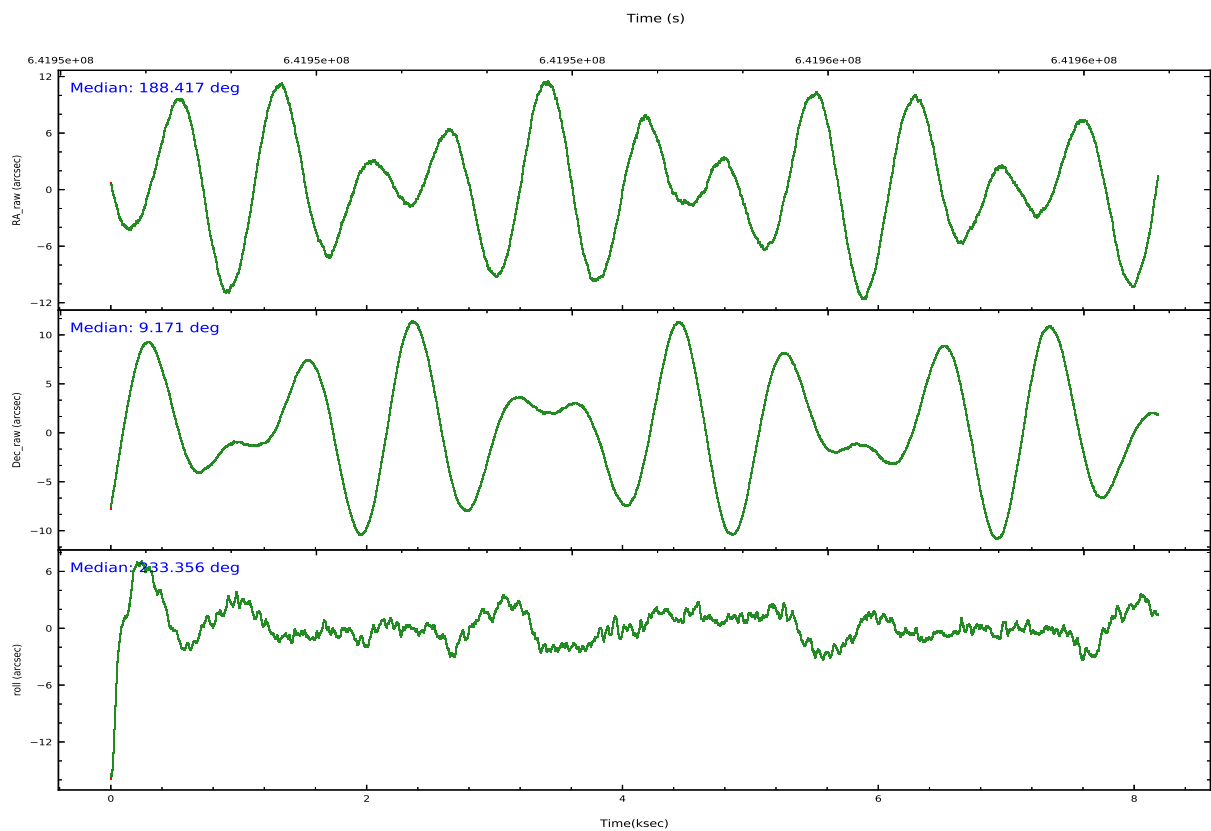
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	3032	2242	2761	5399
	3%	3%	3%	6%
grade 1 events	197	26	104	59
	0%	0%	0%	0%
grade 2 events	14615	1599	6955	4891
	15%	2%	9%	6%
grade 3 events	1308	635	2619	1904
	1%	1%	3%	2%
grade 4 events	1280	614	2613	1813
	1%	1%	3%	2%
grade 5 events	6029	2674	7497	4057
	6%	4%	9%	5%
grade 6 events	24860	1697	17805	5448
	26%	2%	23%	6%
grade 7 events	42613	51517	35486	54793
	45%	84%	46%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-5678	ACIS-5678	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	188.419780	188.41487815397	Subarray requested	NONE	NONE
[deg] Pointing Dec	9.198115	9.175972837546601	Alternating exposures requested	N	N
[deg] Pointing Roll	233.202929	233.35639920165	[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)	641950580.184000	641950095.12604			
Observation start date	2018-05-05T23:35:11	2018-05-05T23:28:15			
[s] Observation end time (MET)	641958580.184000	641958783.53906			
Observation end date	2018-05-06T01:48:31	2018-05-06T01:53:03			
Read mode	TIMED	TIMED			

2.3 Aspect



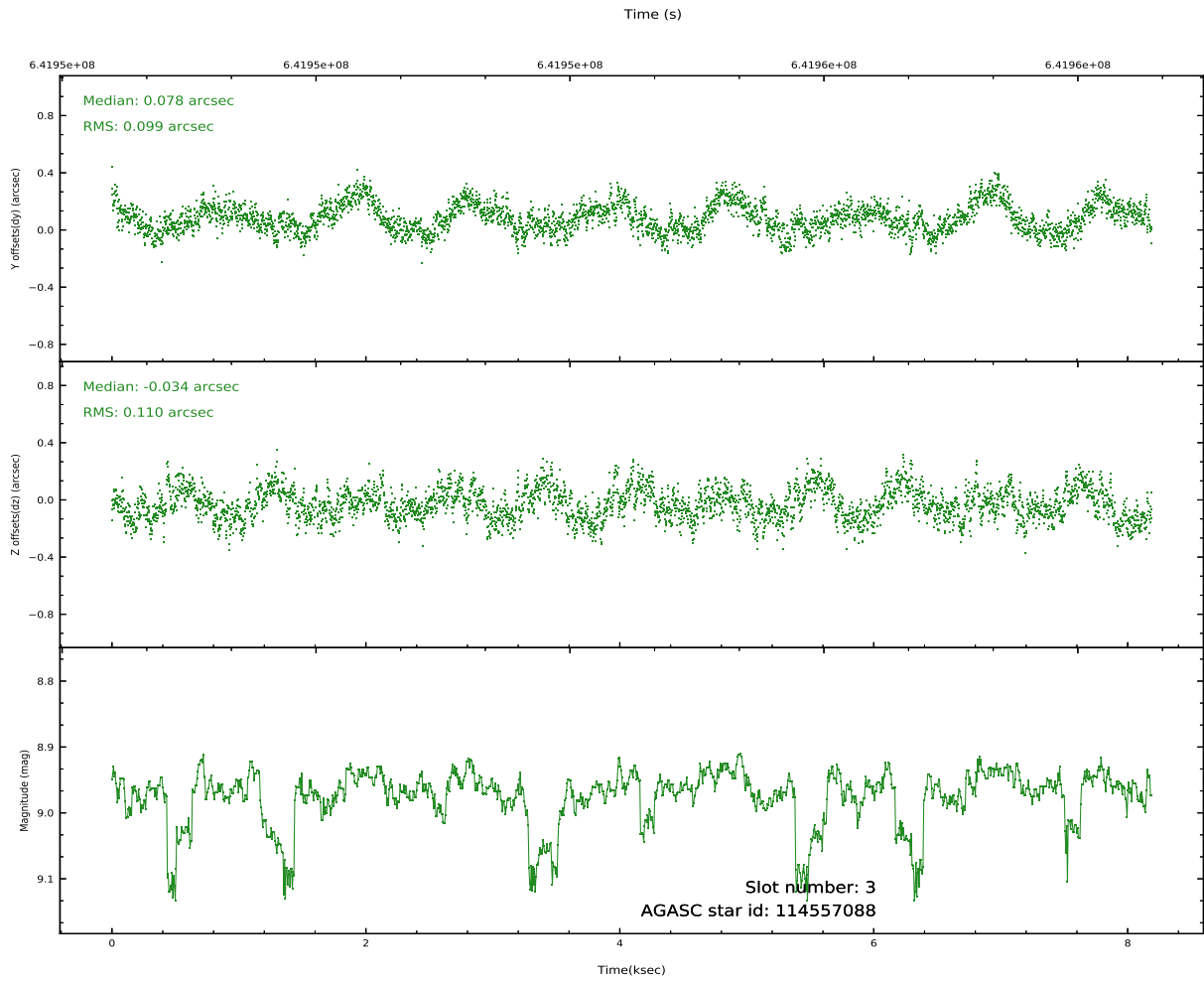
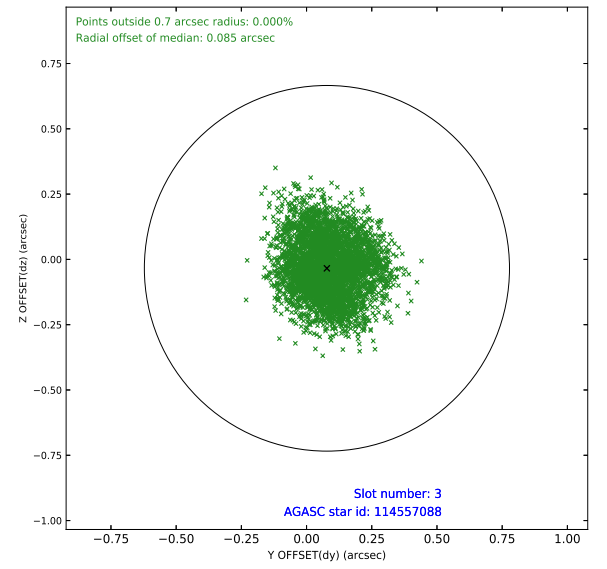
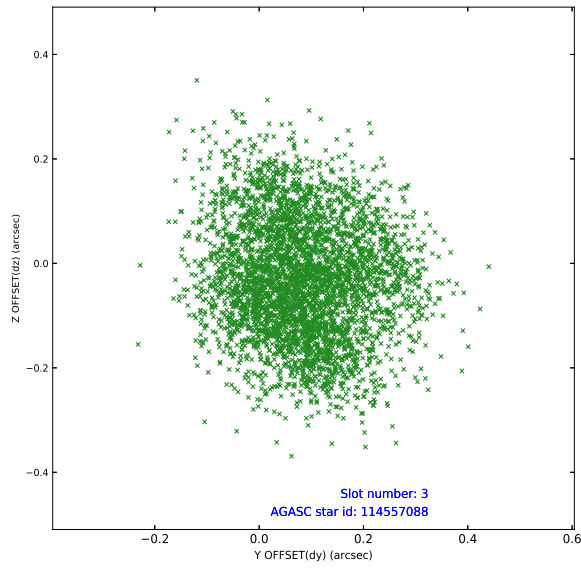


Slot Statistics

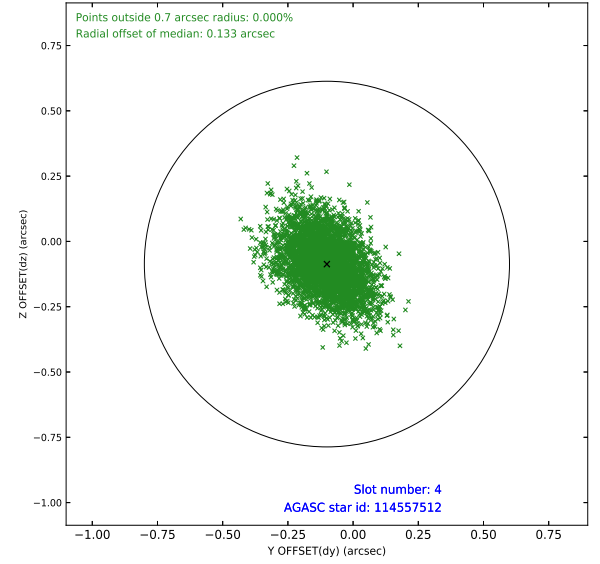
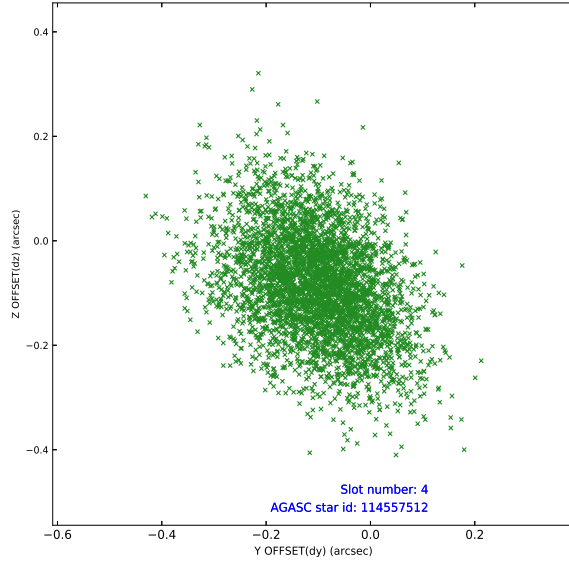
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.07	1998	1.000	0.042	-0.069	0.008	0.013	0.000000	0.000000	-763.12	-1737
1	FID		ACIS-S-4	7.21	1998	1.000	0.171	-0.002	0.008	0.021	0.000000	0.000000	2150.10	170
2	FID		ACIS-S-5	7.19	1998	1.000	-0.245	0.080	0.008	0.017	0.000000	0.000000	-1815.25	165
3	GUIDE	used	114557088	8.97	3992	1.000	0.078	-0.034	0.161	0.246	188.466353	9.531660	-1060.36	-586
4	GUIDE	used	114557512	9.44	3990	1.000	-0.100	-0.087	0.143	0.242	188.882545	9.657451	-2308.61	323
5	GUIDE	used	114562576	8.88	3989	1.000	0.062	0.091	0.167	0.276	188.579291	9.672237	-1706.05	-568
6	GUIDE	used	114562672	8.92	3992	1.000	0.055	-0.075	0.125	0.210	188.668662	8.560933	1305.84	2083
7	GUIDE	used	114692224	9.32	3987	1.000	-0.101	0.103	0.156	0.265	189.020175	9.229887	-1370.04	1641

2.4 Star Slots

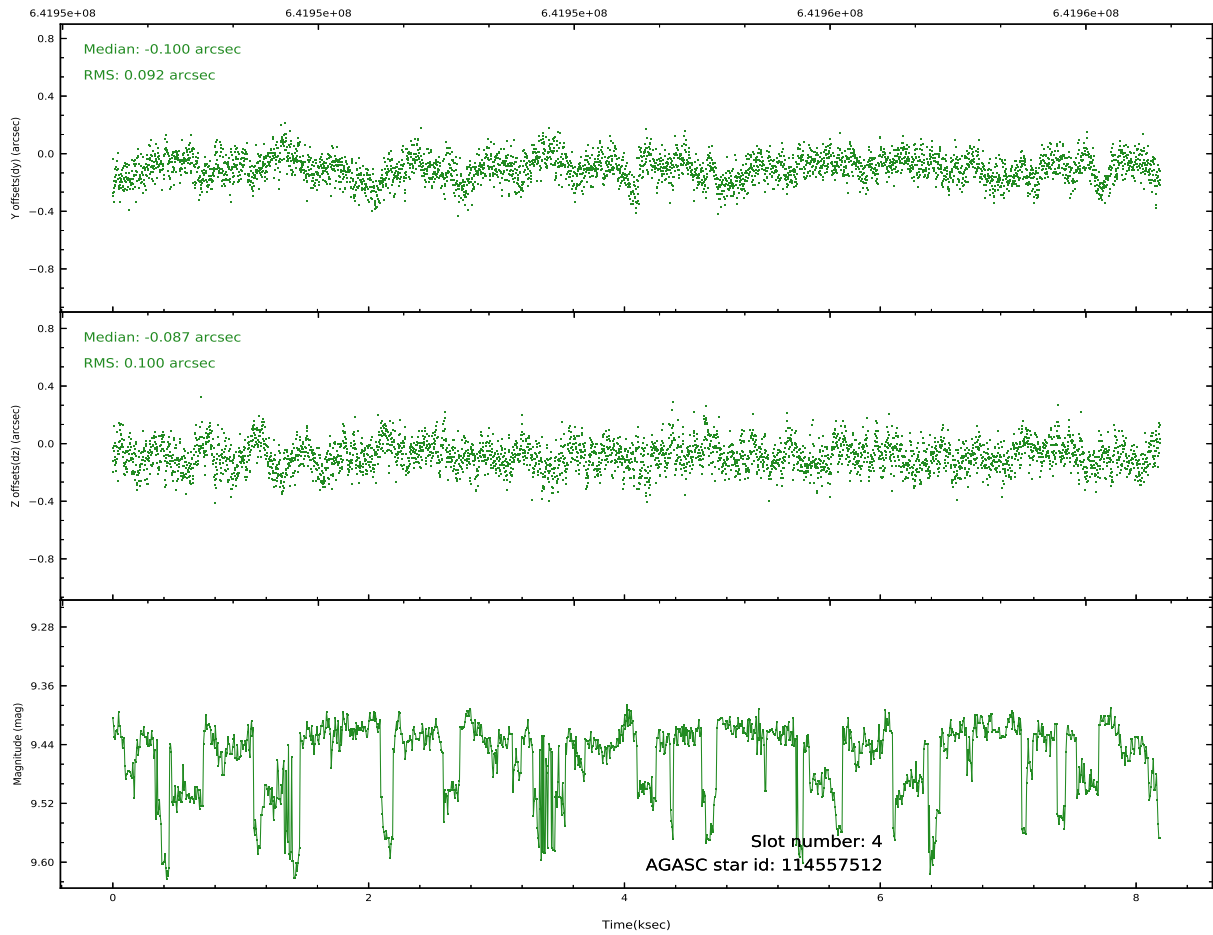
2.4.1 Slot 3



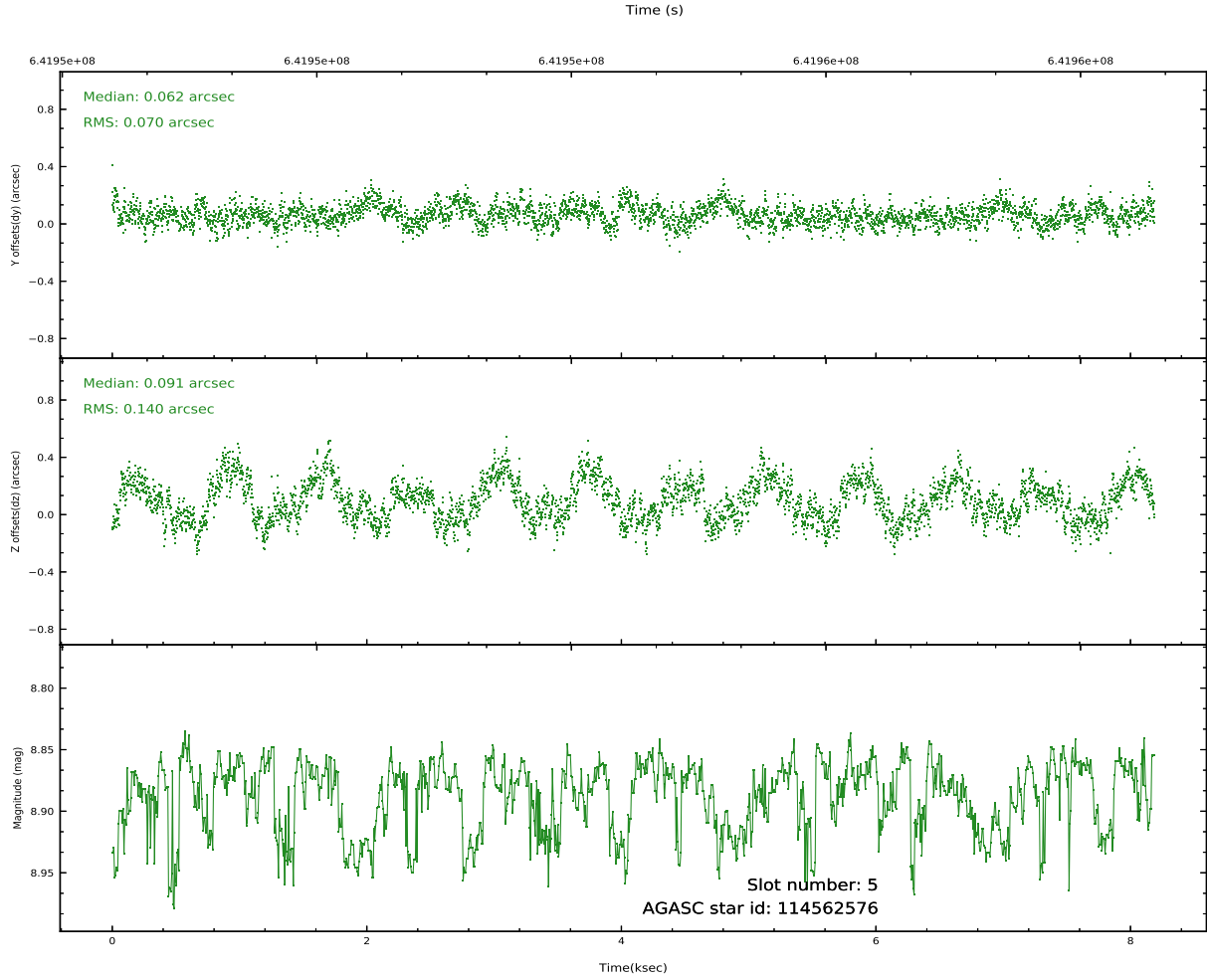
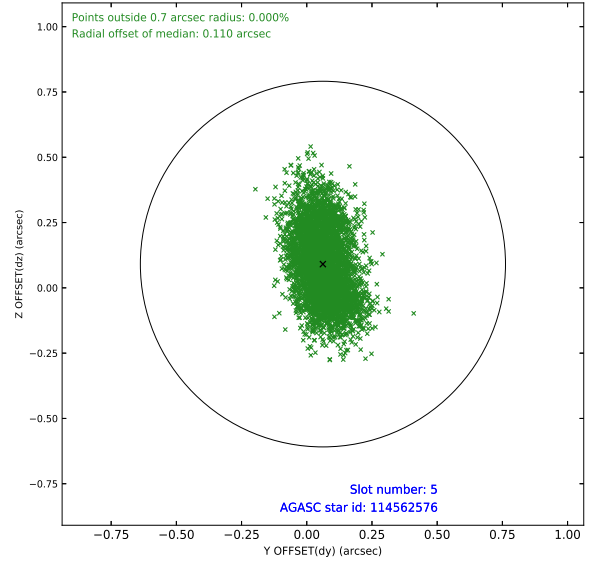
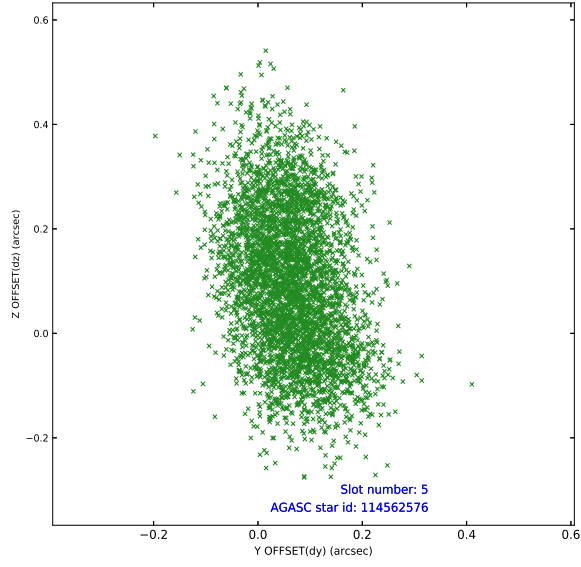
2.4.2 Slot 4



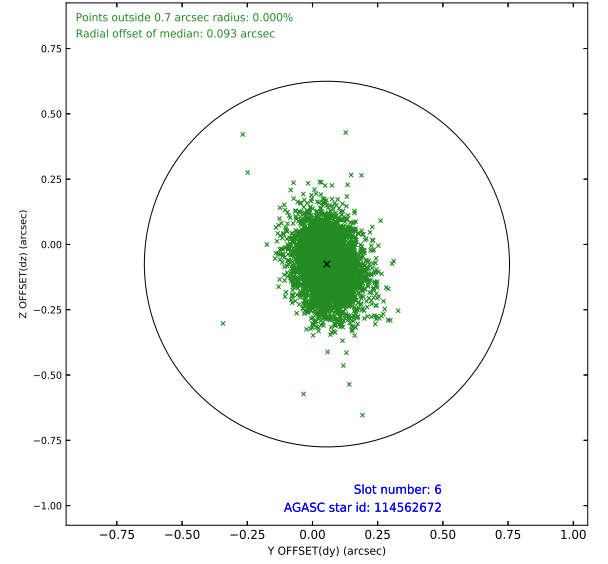
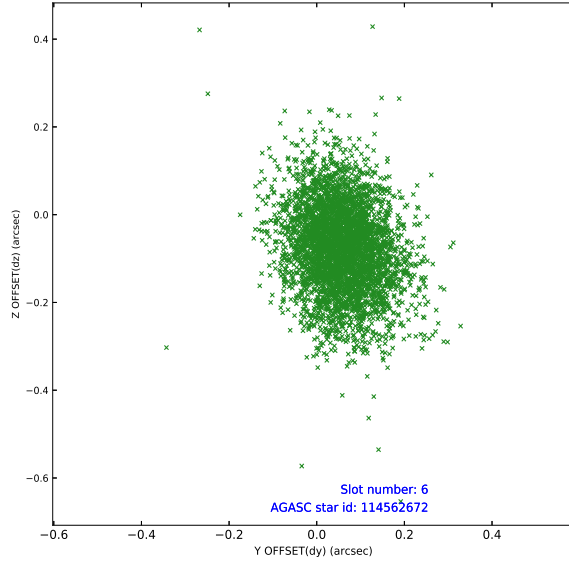
Time (s)



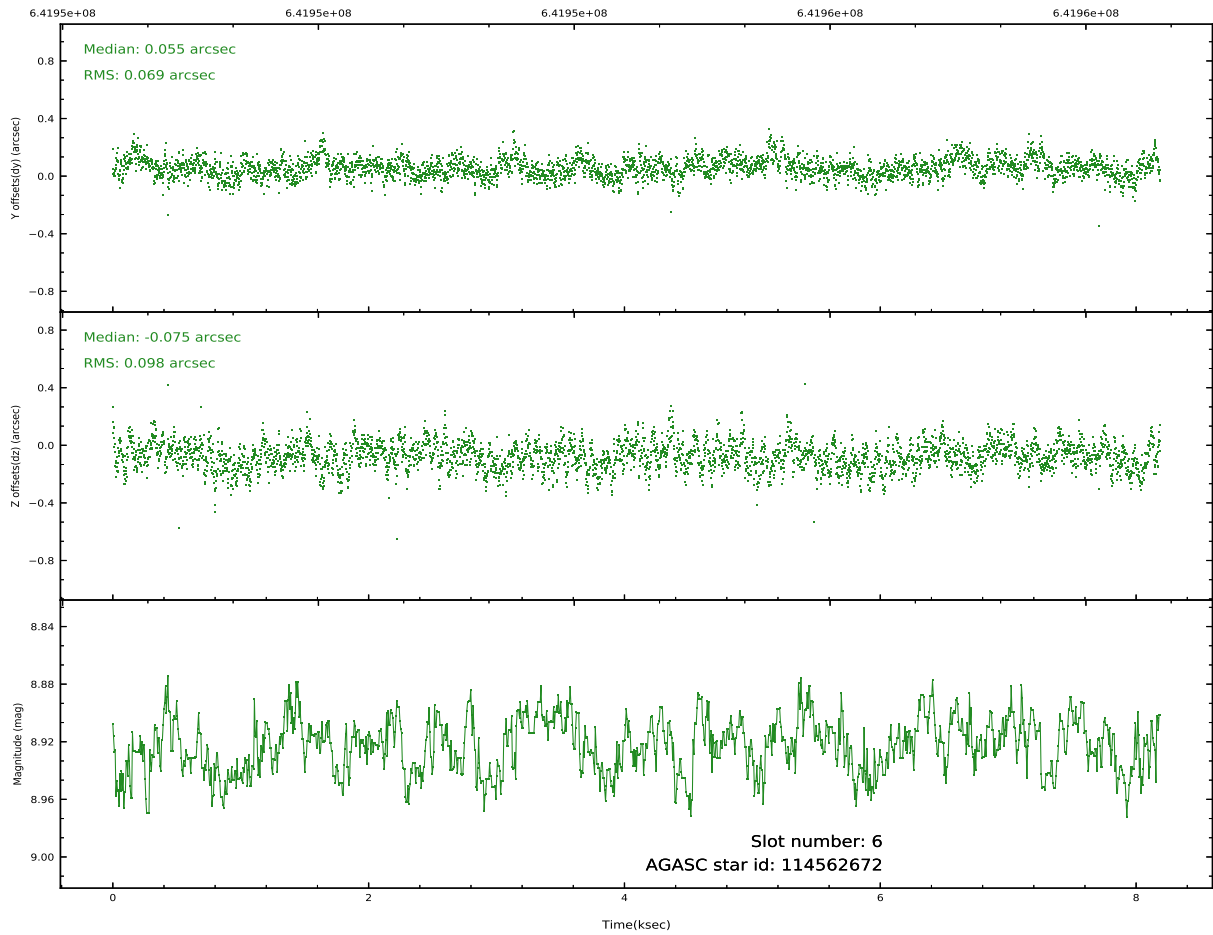
2.4.3 Slot 5



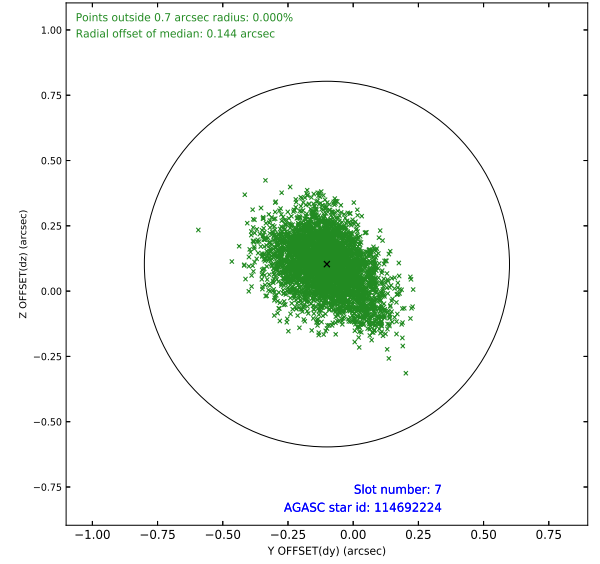
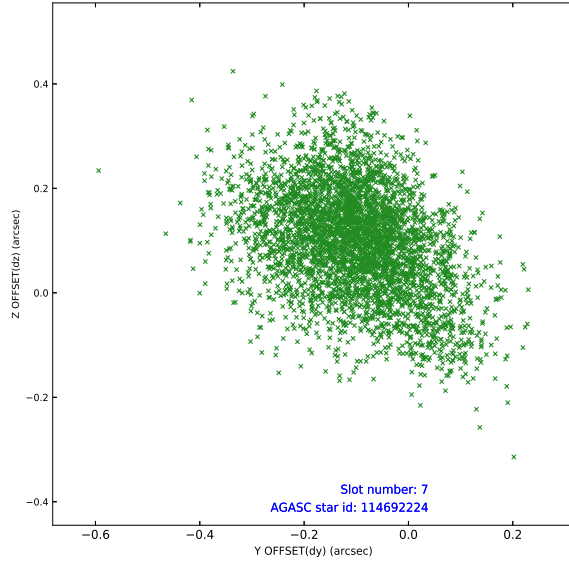
2.4.4 Slot 6



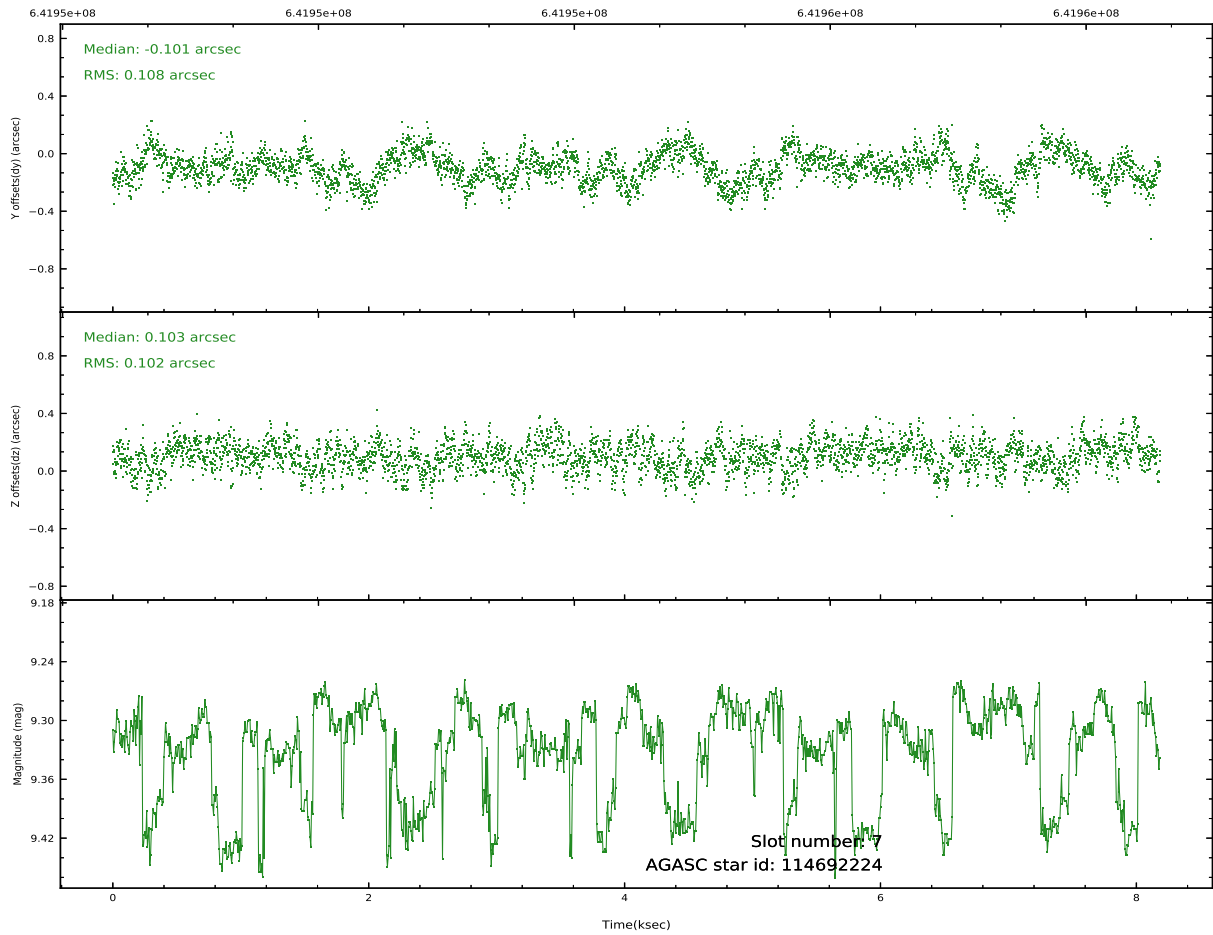
Time (s)



2.4.5 Slot 7

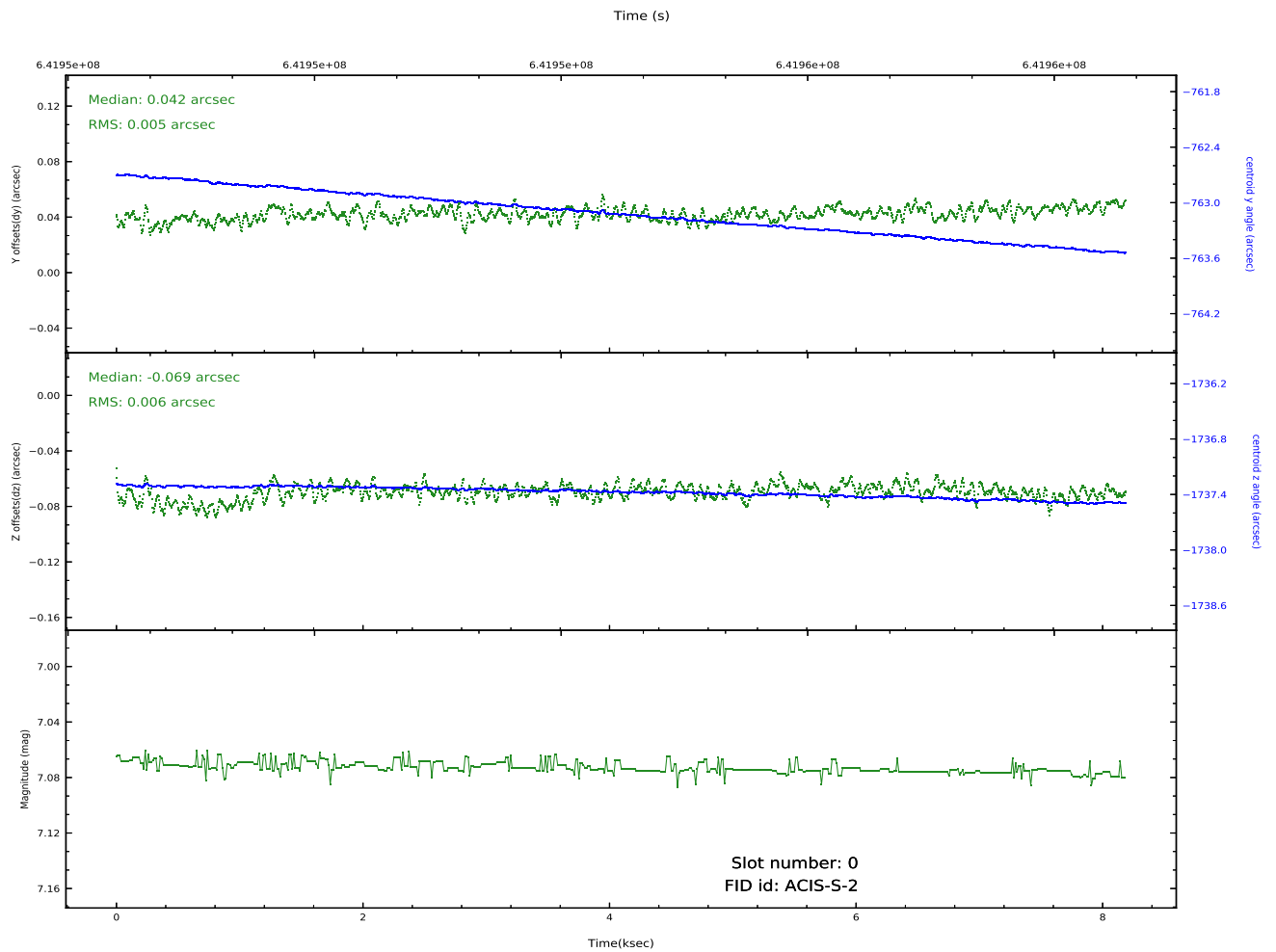
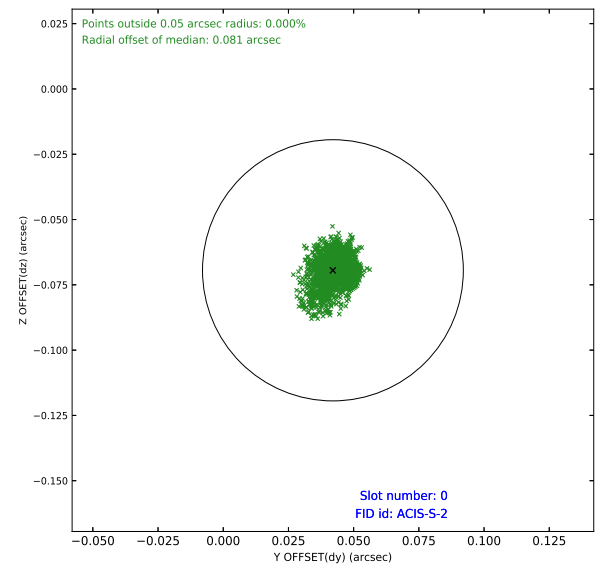
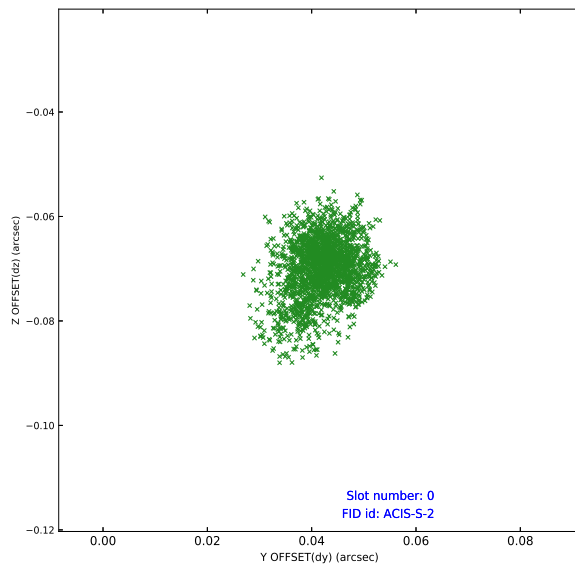


Time (s)

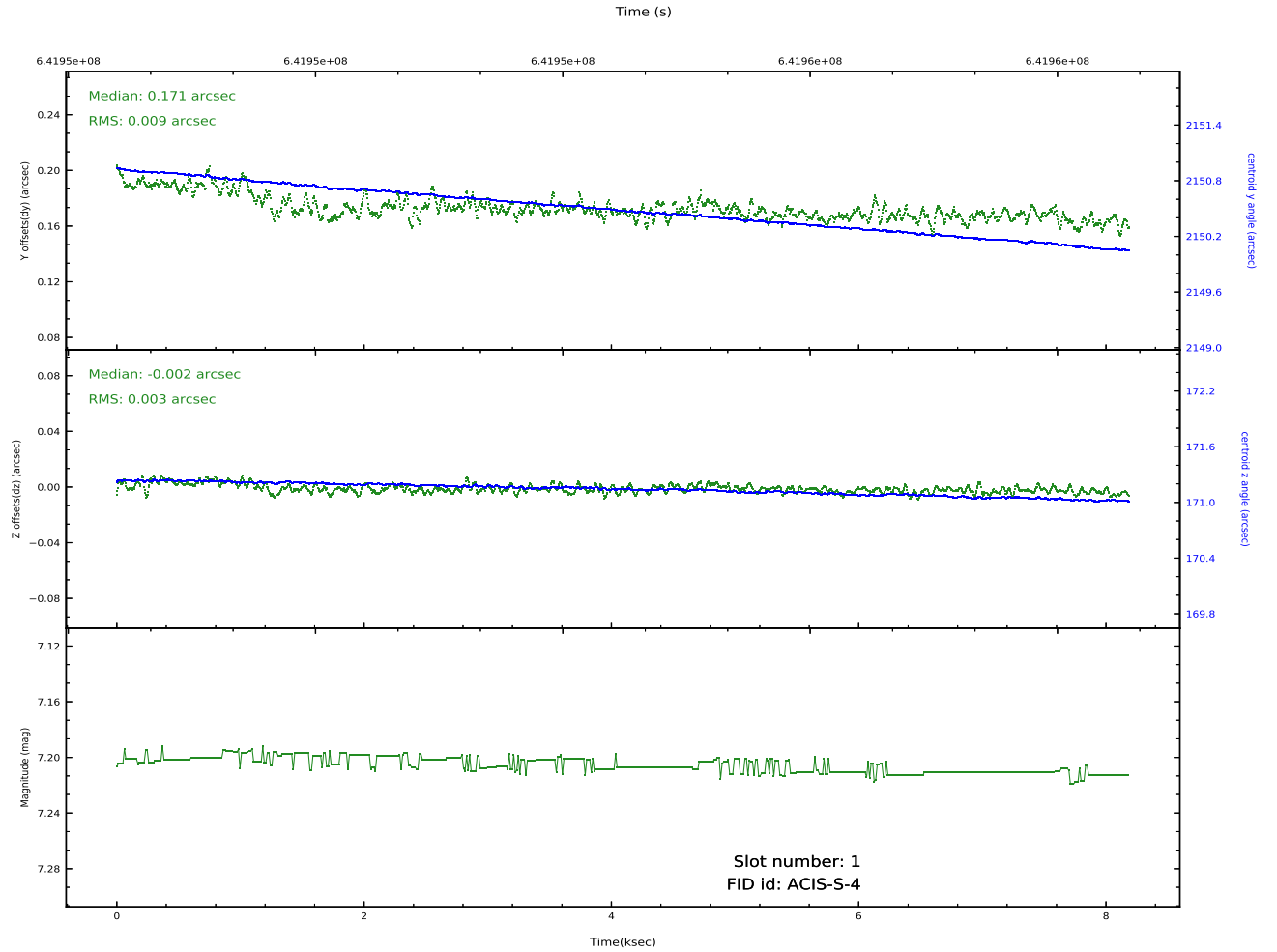
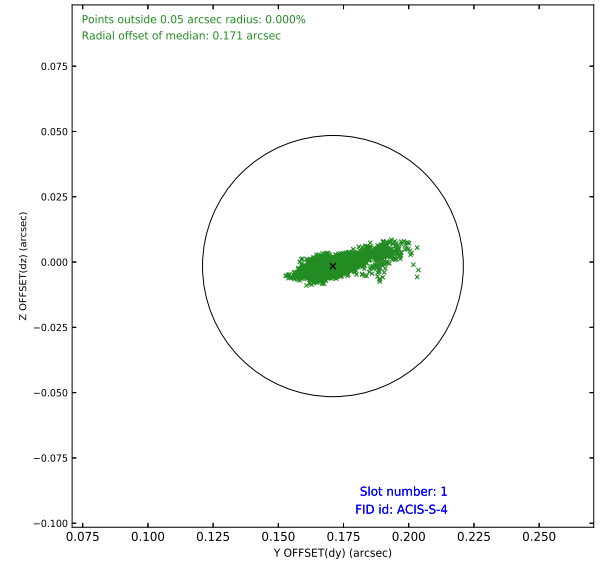
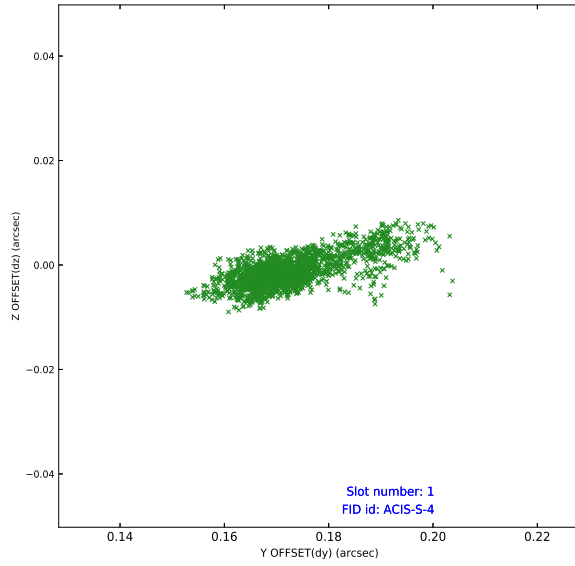


2.5 FID Slots

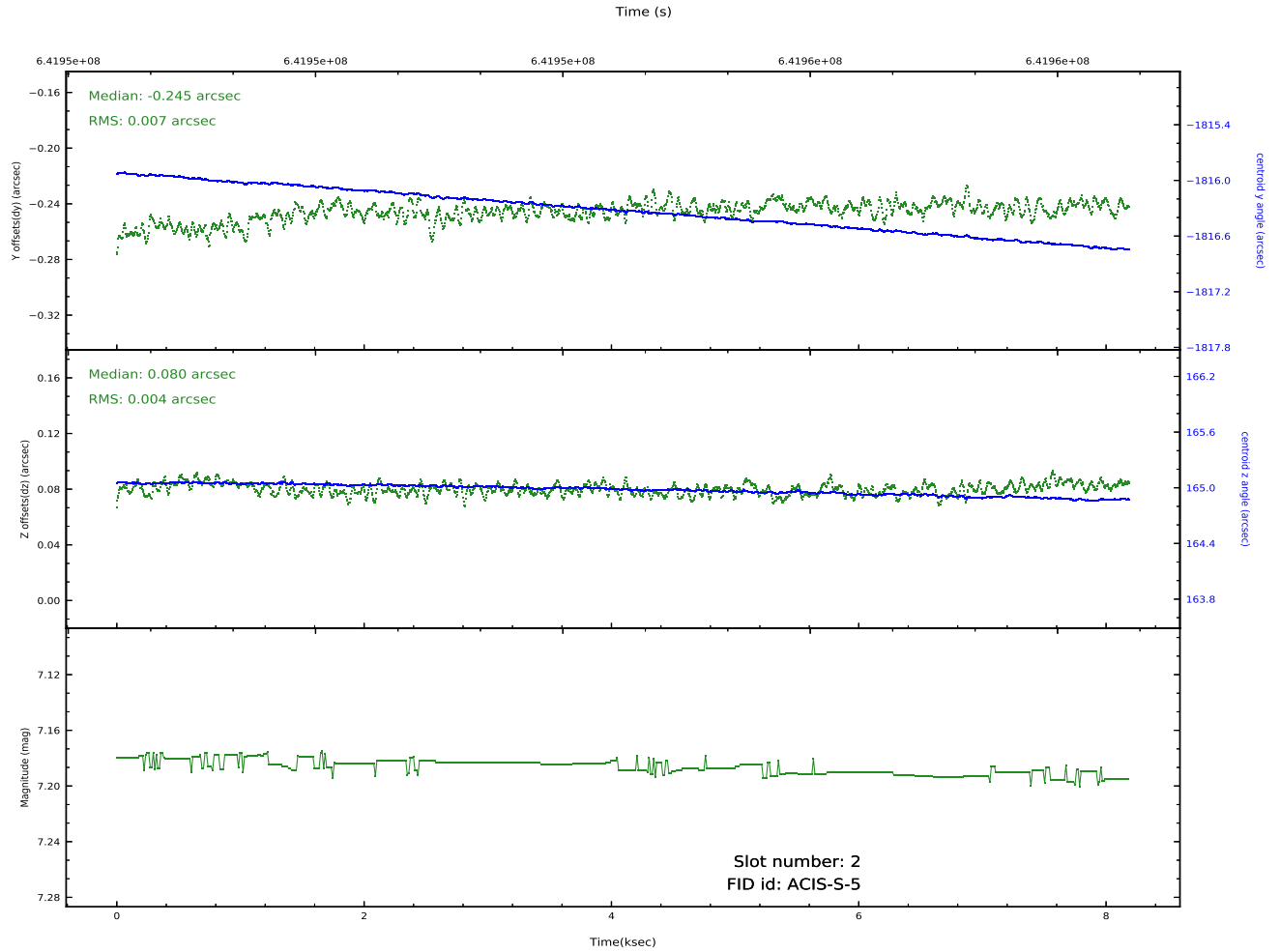
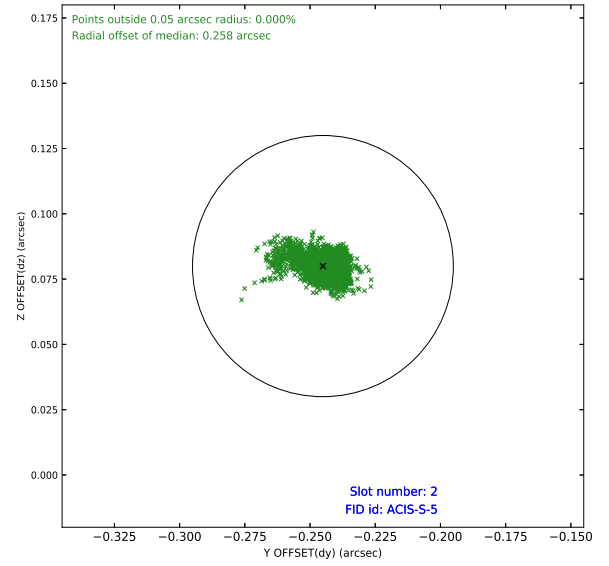
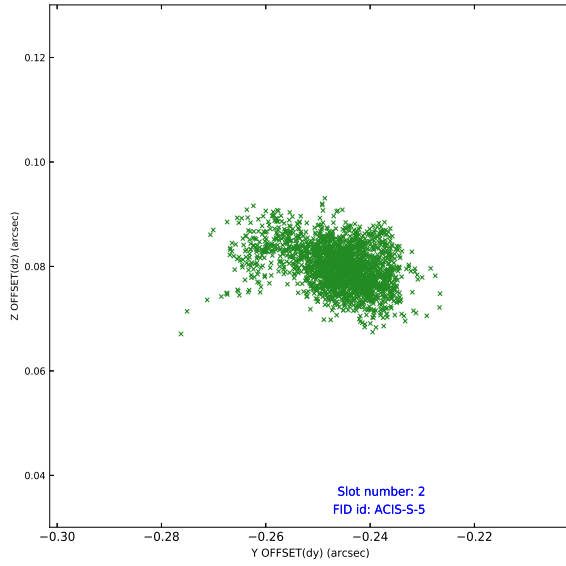
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.9081000609398

A.2 Comments