

V&V Reference Report

L2 ASCDS Version : 10.9

Observation 23331 - L2 Version 1
Chandra X-Ray Center

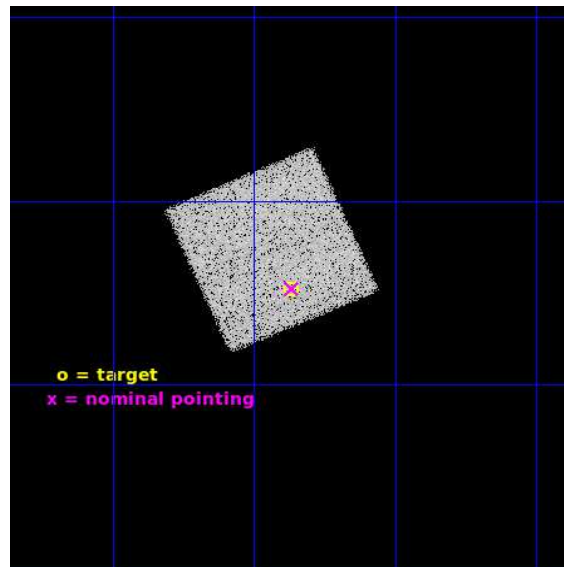
L2 Processing Date : Jul 23 2020

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1 Front

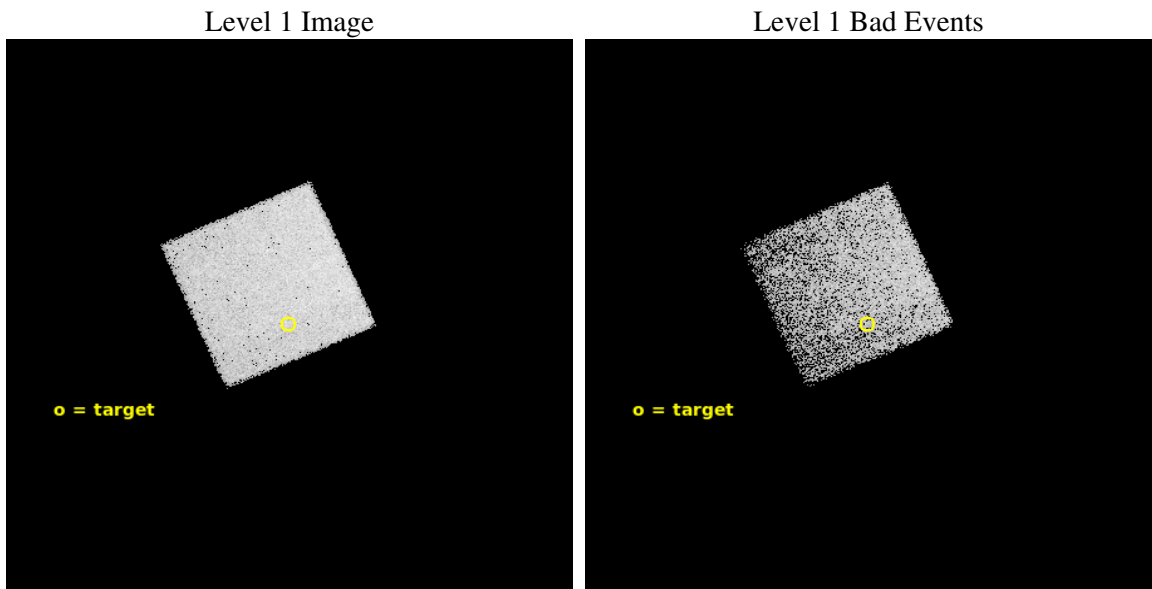
seq_num	503207	Sequence number
obs_id	23331	Observation id
title	X-ray observations of a candidate Pulsar Wind Nebula	Proposal titl
observer	RAFFAELLA MARGUTTI	Principal investigator
object	SN2012au	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	193.717417	Observer's specified target RA [deg]
dec_targ	-10.247281	Observer's specified target Dec [deg]
ra_nom	193.7164156005	Nominal RA [deg]
dec_nom	-10.24627204927	Nominal Dec [deg]
roll_nom	246.15385227297	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10092.0	Sum of GTIs [s]
livetime	9955.8045931655	Livetime [s]
ontime7	10092.0	Sum of GTIs [s]
l2events	41878	Number of level 2 events



2 OBI

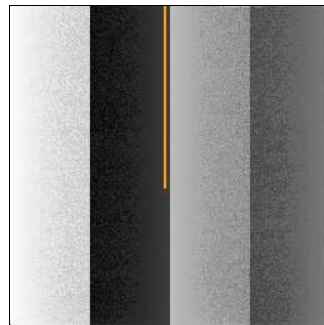
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9	Processing system revision	ontime	10092.0	Sum of GTIs [s]
caldbver	4.9.2	 	ontime7	10092.0	Sum of GTIs [s]
date	2020-07-23T10:31:46	Date and time of file creation	l1events	100034	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

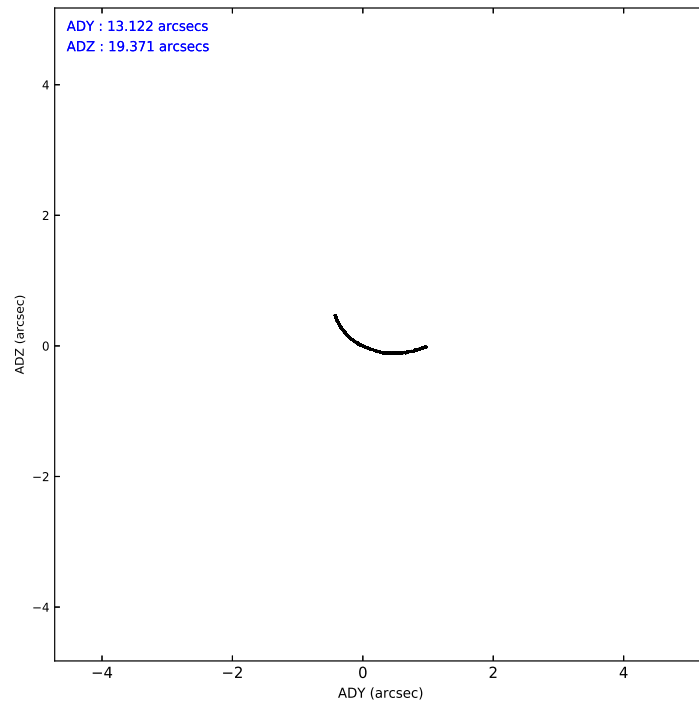
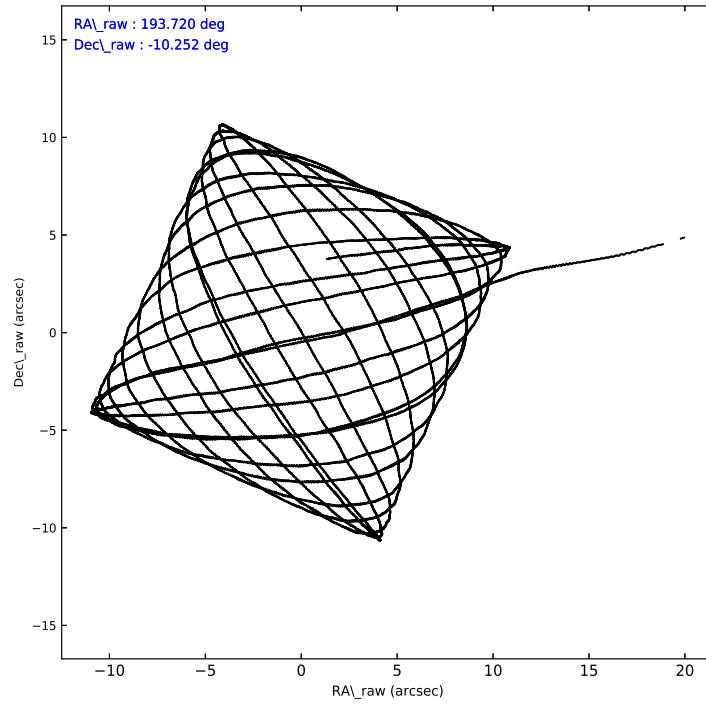
	ccd 7
level 1 events	100034
rejected events	56780
rejected %	56%

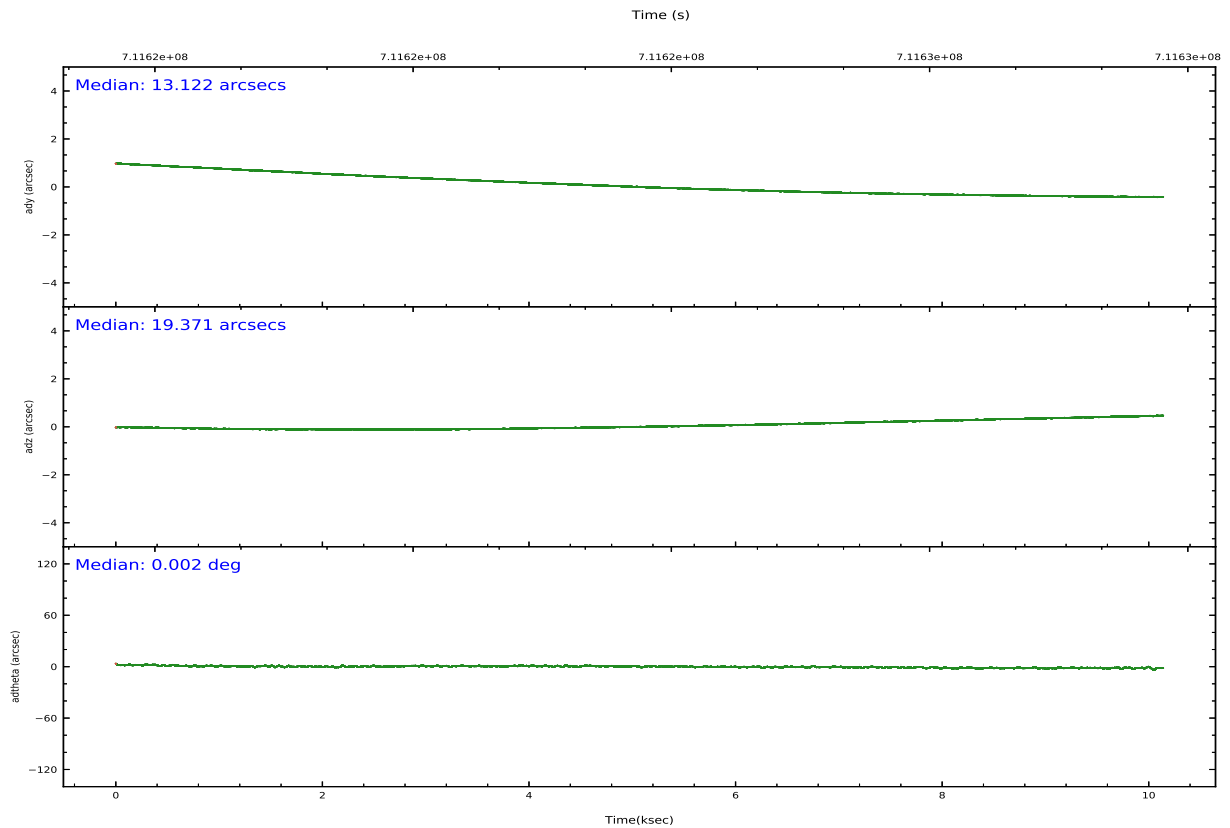
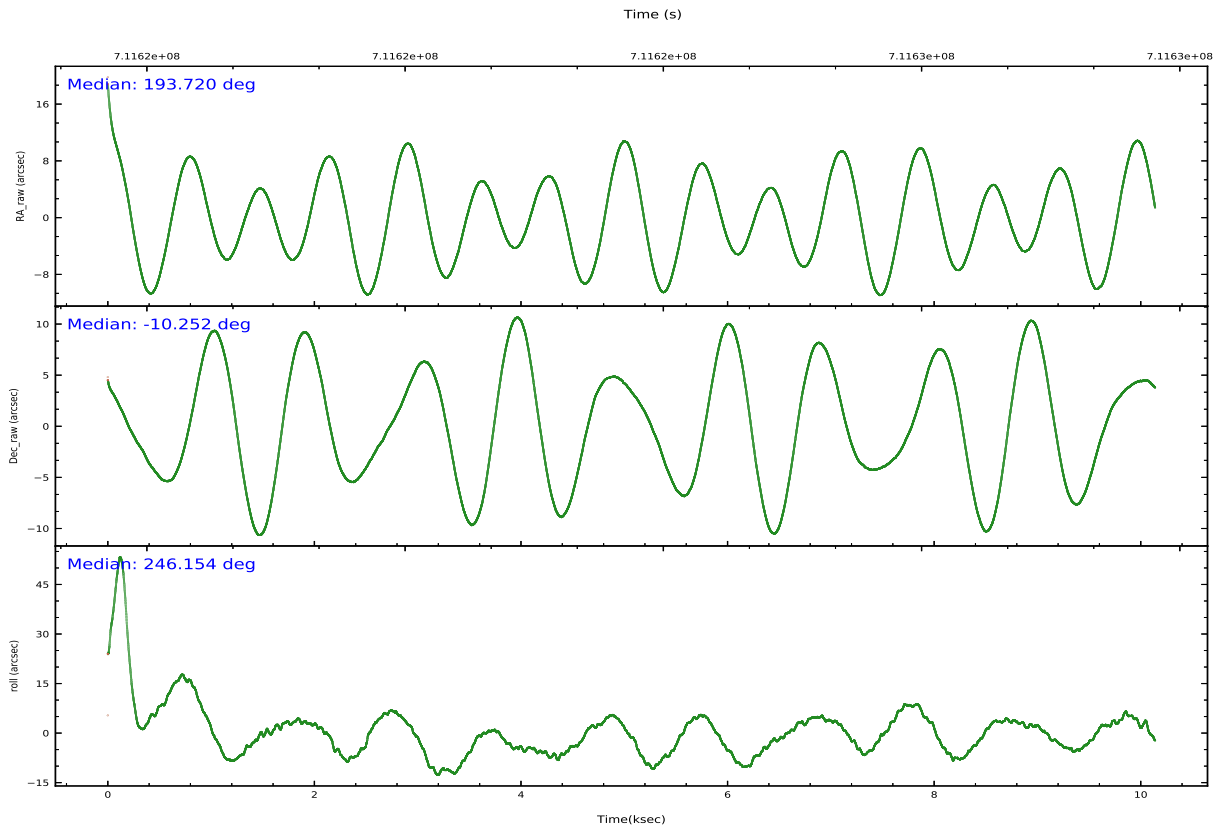
	ccd 7
grade 0 events	3393
	3%
grade 1 events	146
	0%
grade 2 events	9128
	9%
grade 3 events	3284
	3%
grade 4 events	3141
	3%
grade 5 events	9331
	9%
grade 6 events	24322
	24%
grade 7 events	47289
	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	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	193.716725	193.7164156005	Subarray requested	NONE	NONE
[deg] Pointing Dec	-10.224935	-10.24627204927	Alternating exposures requested	N	N
[deg] Pointing Roll	245.999881	246.15385227297	[s] Primary exposure time	0.000000	3
[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)	711619762.184000	711618602.95884			
Observation start date	2020-07-20T08:08:13	2020-07-20T07:50:02			
[s] Observation end time (MET)	711629762.184000	711630778.93458			
Observation end date	2020-07-20T10:54:53	2020-07-20T11:12:58			
Read mode	TIMED	TIMED			

2.3 Aspect



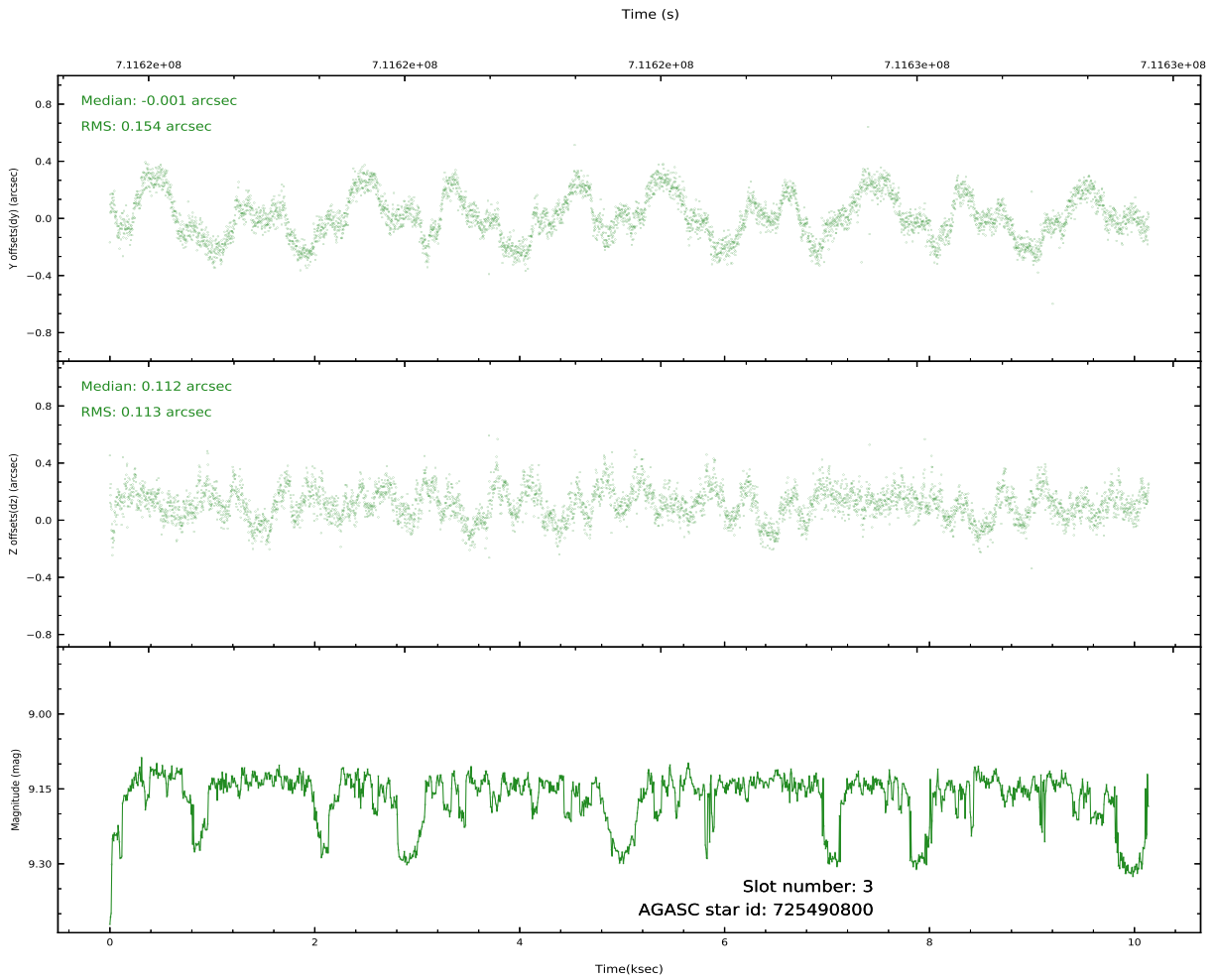
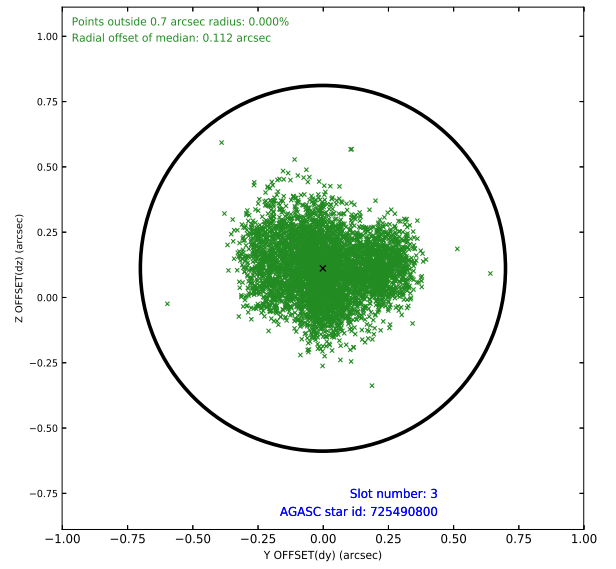
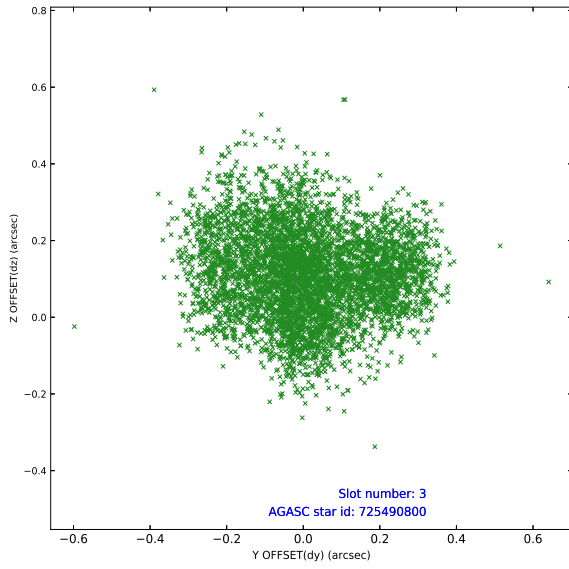


Slot Statistics

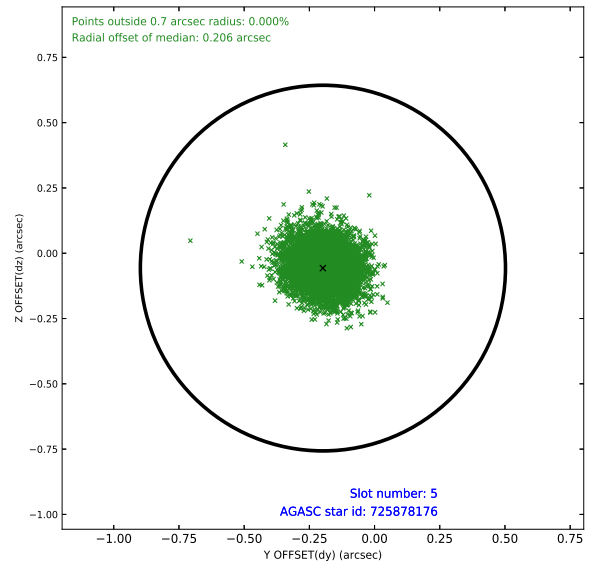
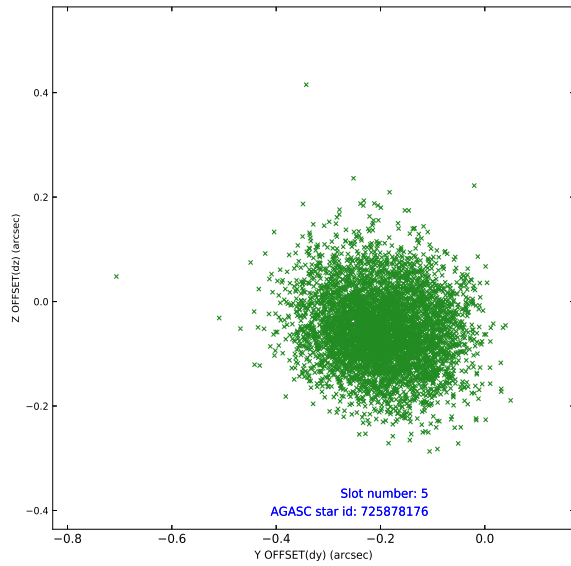
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-1	7.25	2474	1.000	0.402	-0.217	0.014	0.023	0.000000	0.000000	930.07	-1736
1	FID		ACIS-S-5	7.26	2474	1.000	-0.366	0.316	0.021	0.033	0.000000	0.000000	-1819.16	161
2	FID		ACIS-S-6	7.41	2473	1.000	-0.057	-0.089	0.016	0.031	0.000000	0.000000	394.93	804
3	GUIDE	used	725490800	9.15	4939	1.000	-0.001	0.112	0.213	0.315	193.423936	-9.618178	-1571.89	-1837
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
5	GUIDE	used	725878176	8.69	4942	1.000	-0.198	-0.057	0.114	0.182	193.713230	-10.434131	693.49	294
6	GUIDE	used	725878456	8.81	4940	1.000	-0.009	-0.045	0.164	0.243	193.306402	-10.183063	455.68	-1389
7	GUIDE	used	725879064	8.52	4944	1.000	0.192	-0.022	0.127	0.214	193.520036	-10.106145	-105.80	-811

2.4 Star Slots

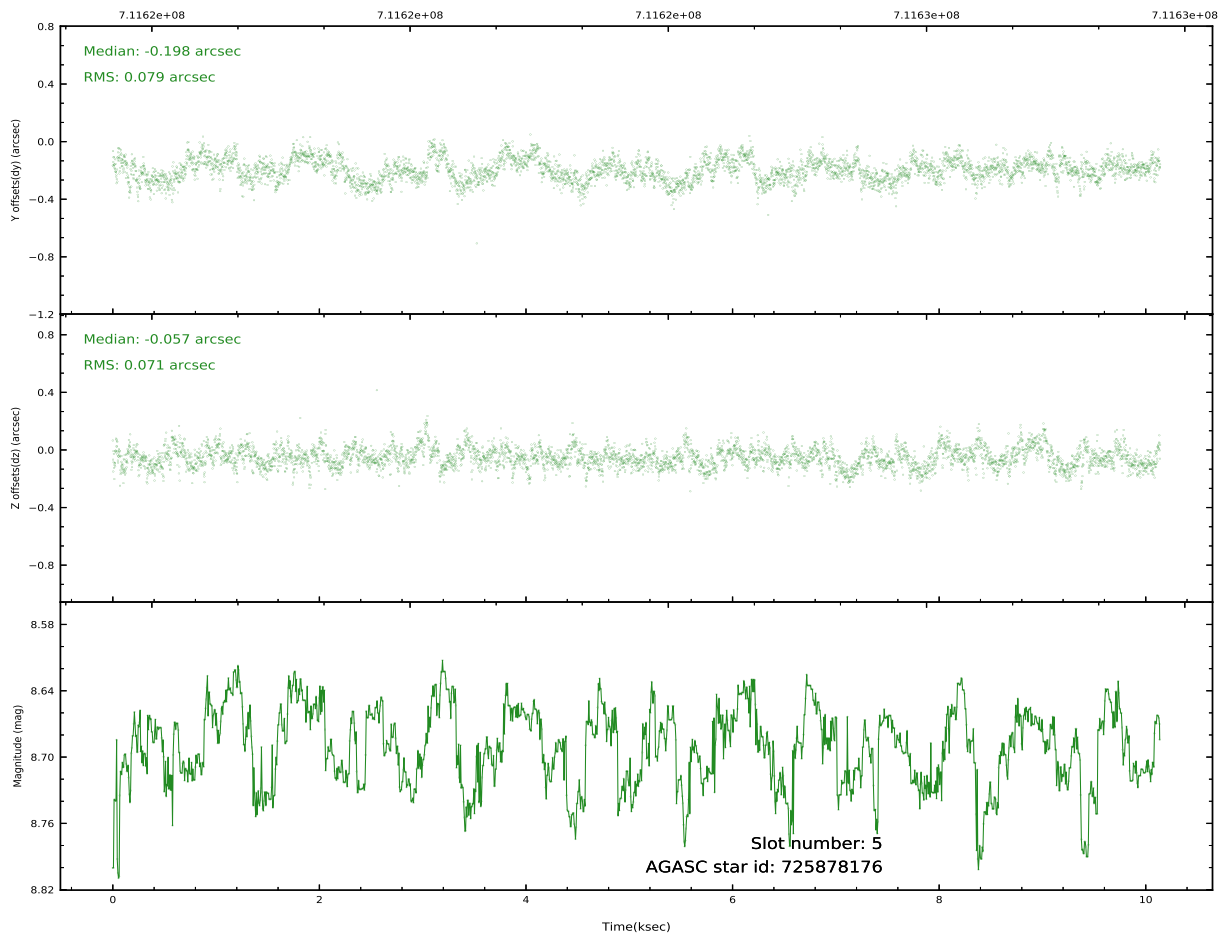
2.4.1 Slot 3



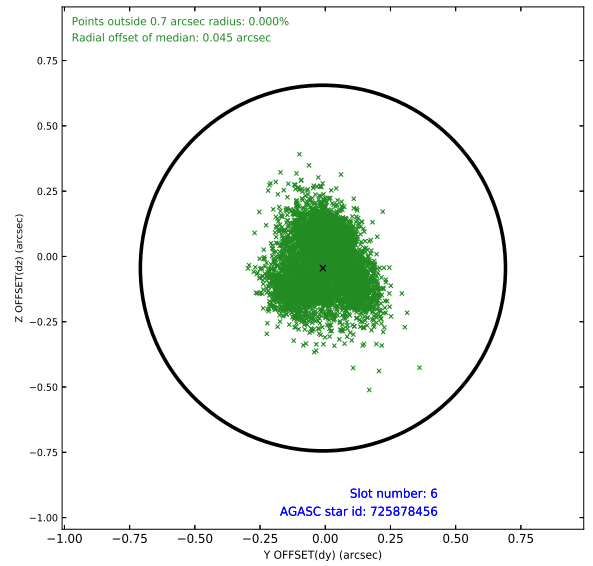
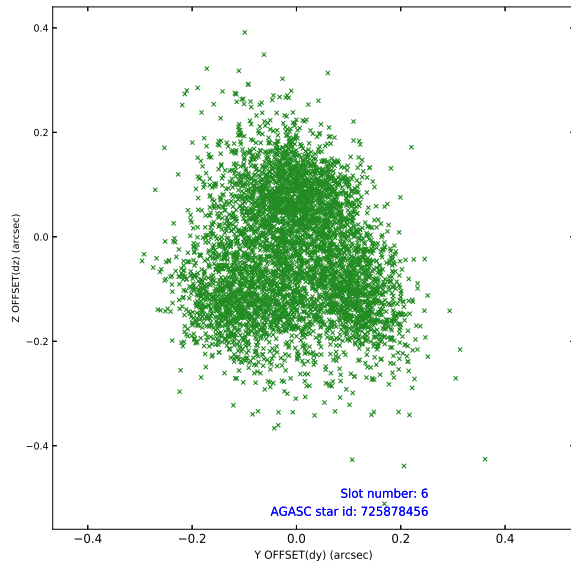
2.4.2 Slot 5



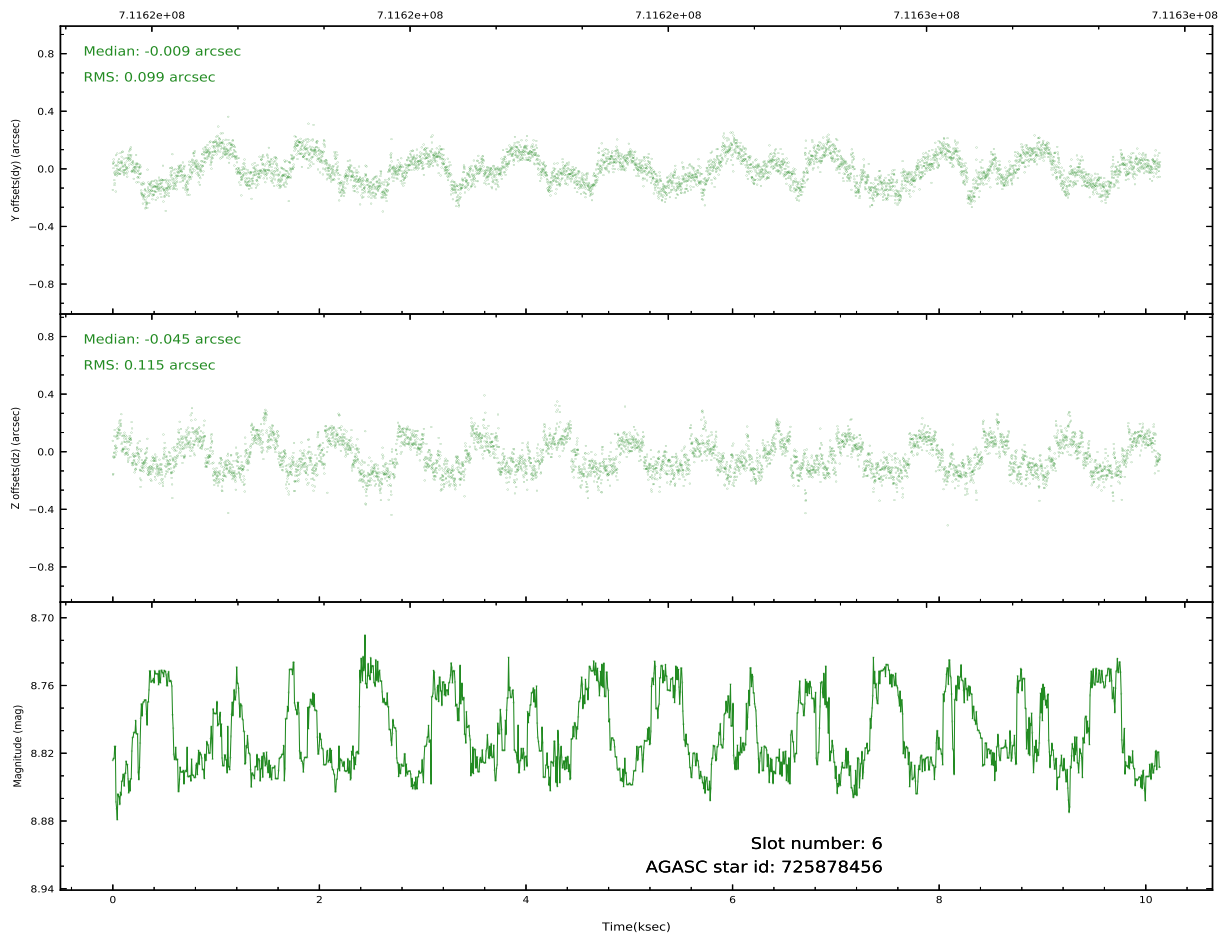
Time (s)



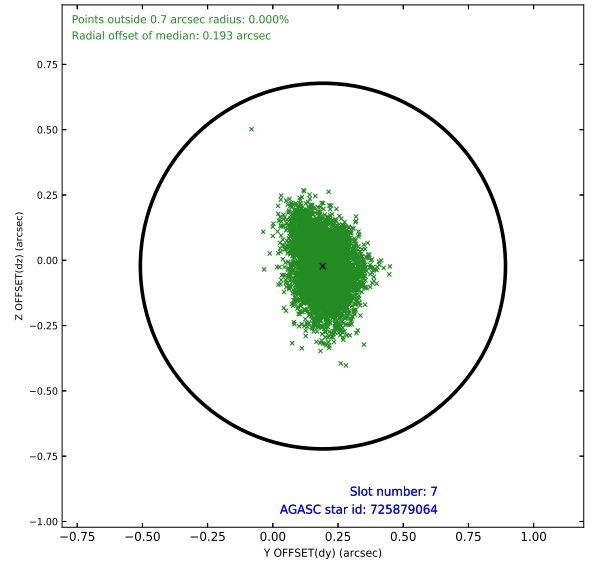
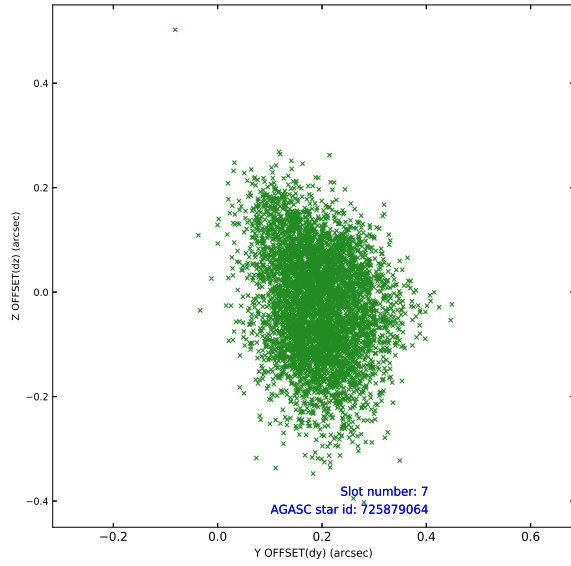
2.4.3 Slot 6



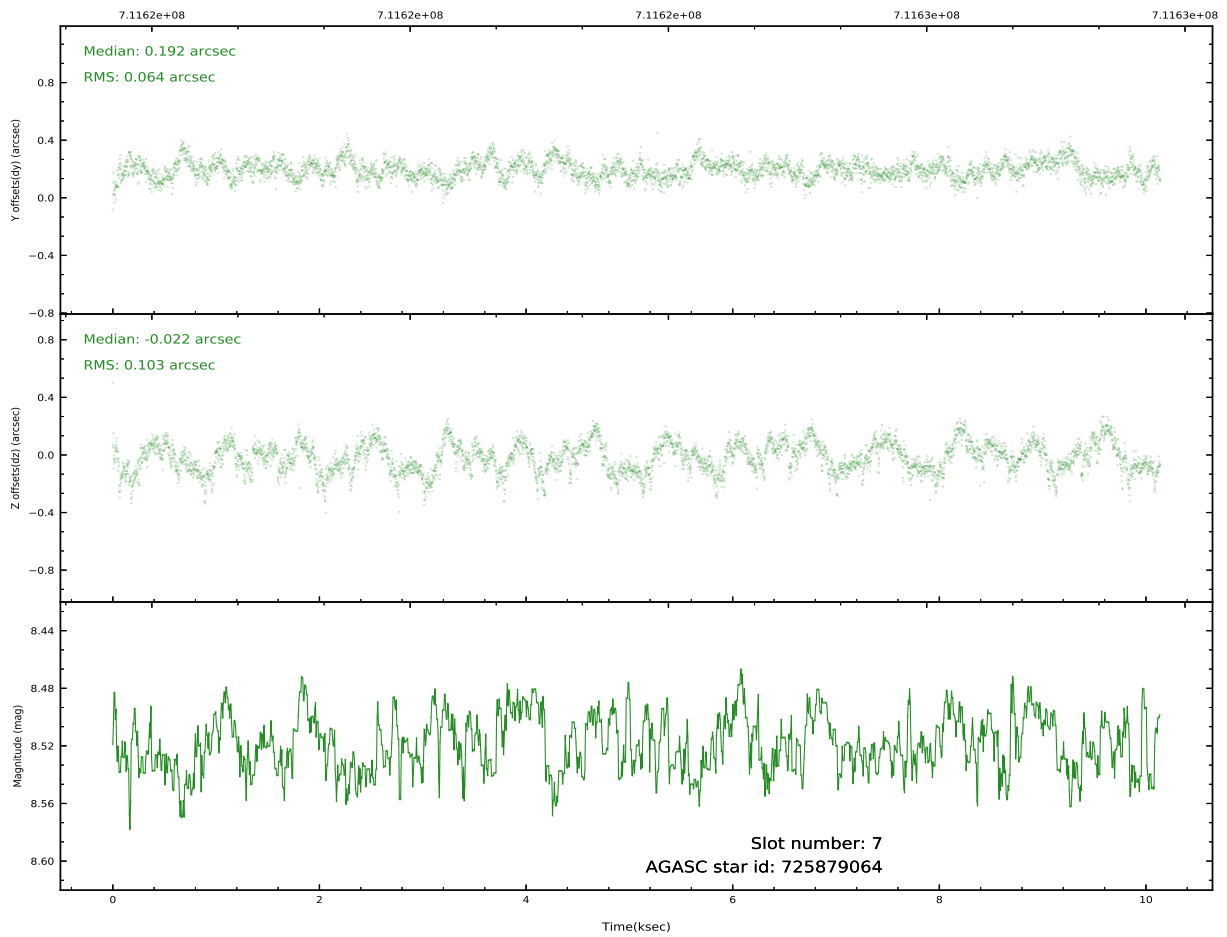
Time (s)



2.4.4 Slot 7

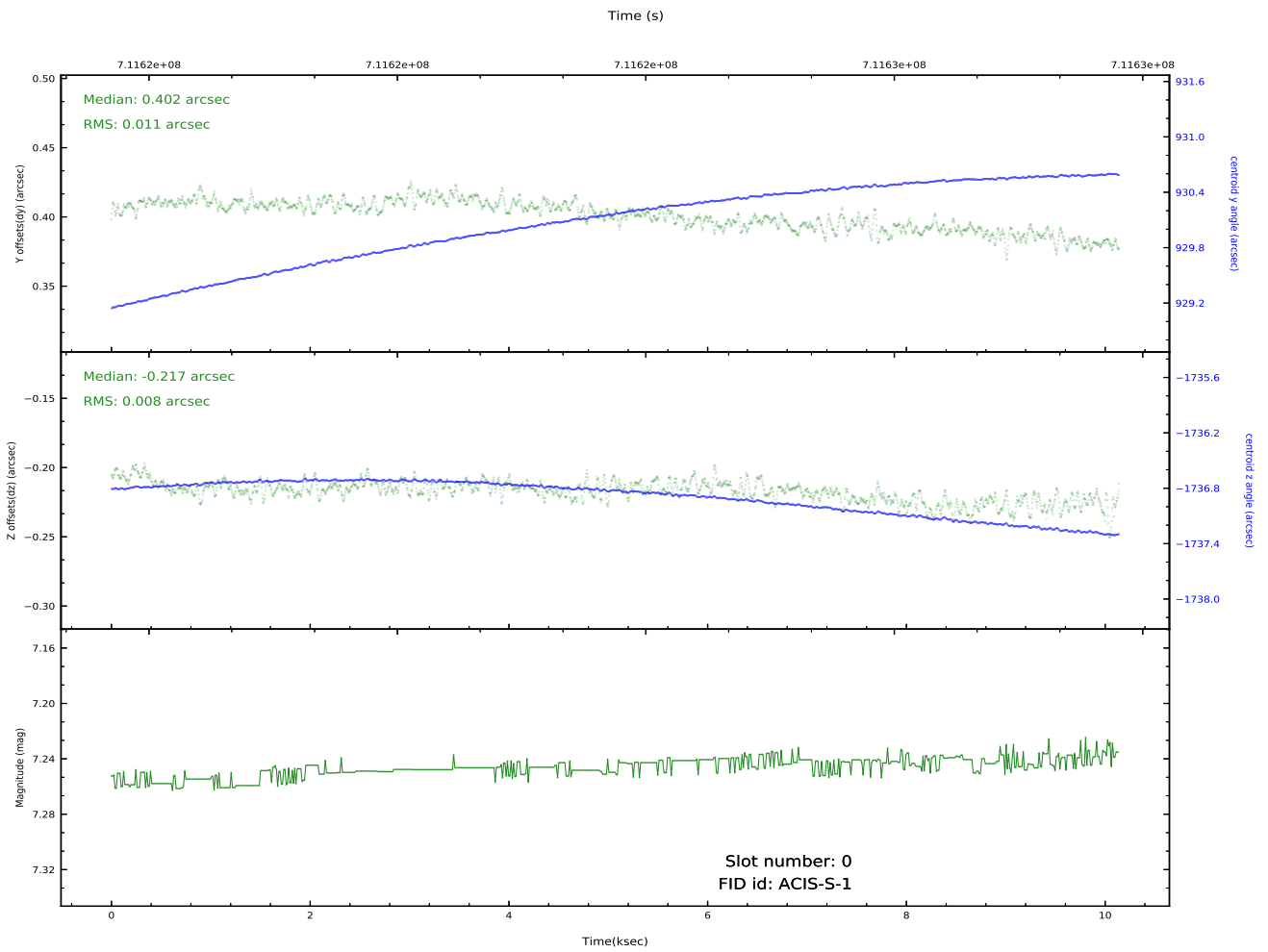
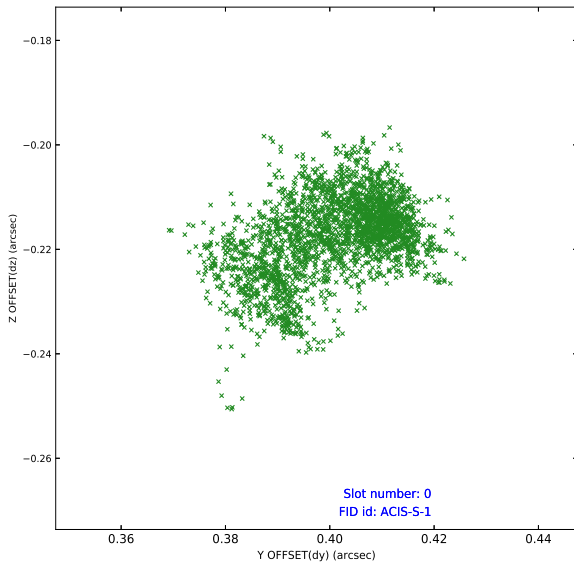


Time (s)

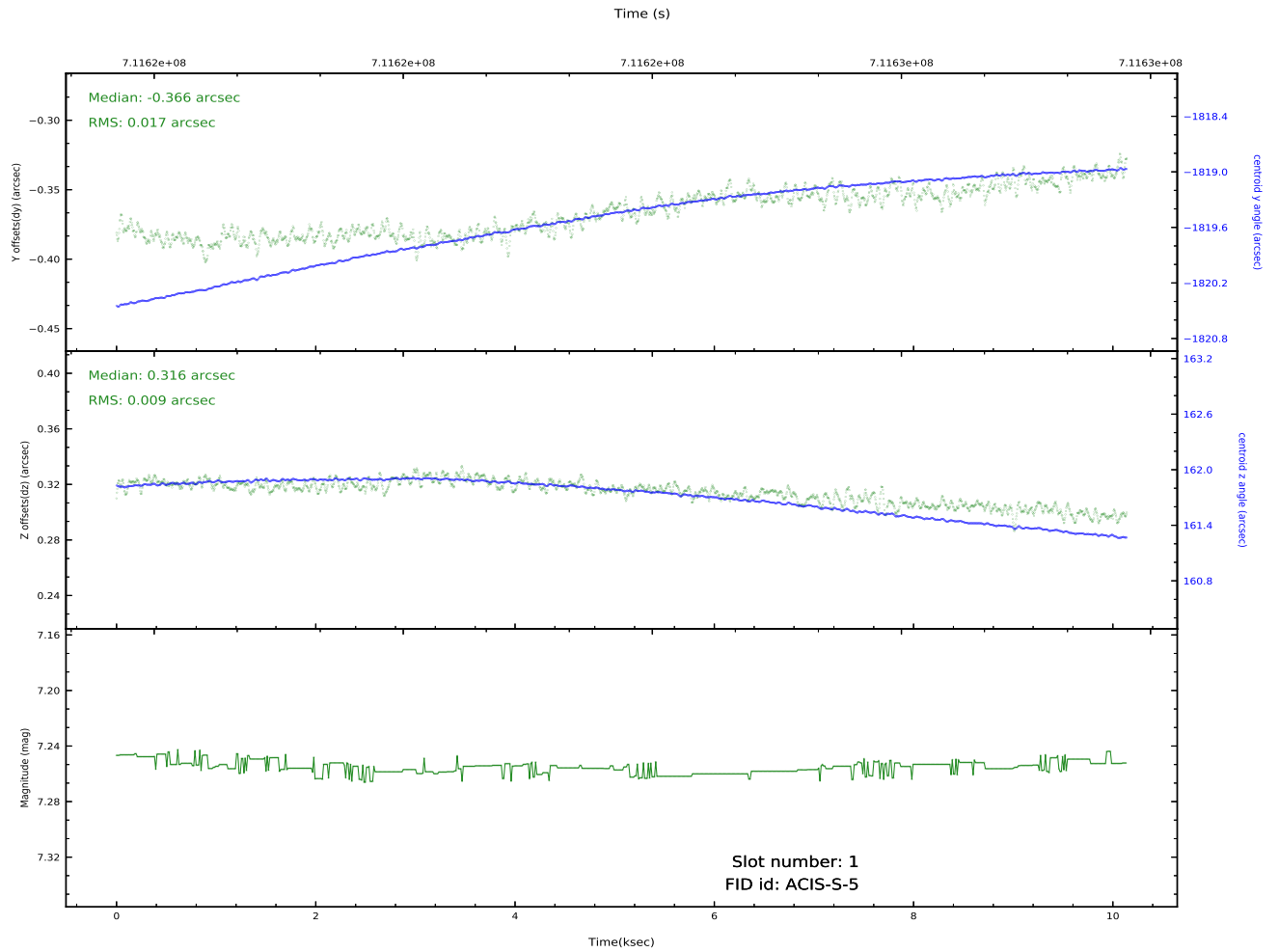
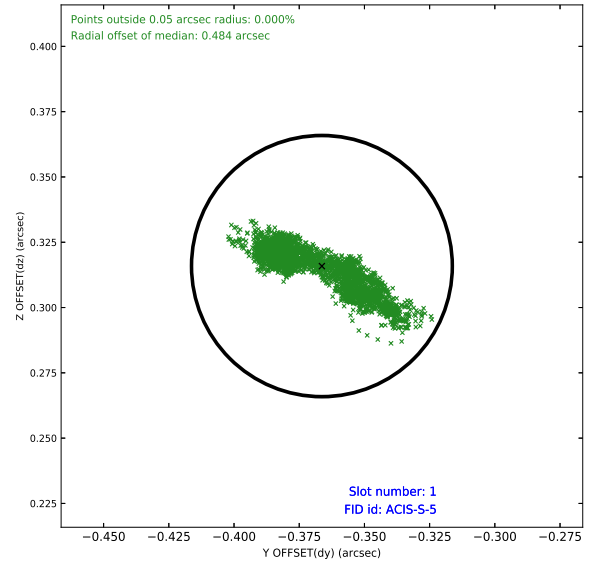
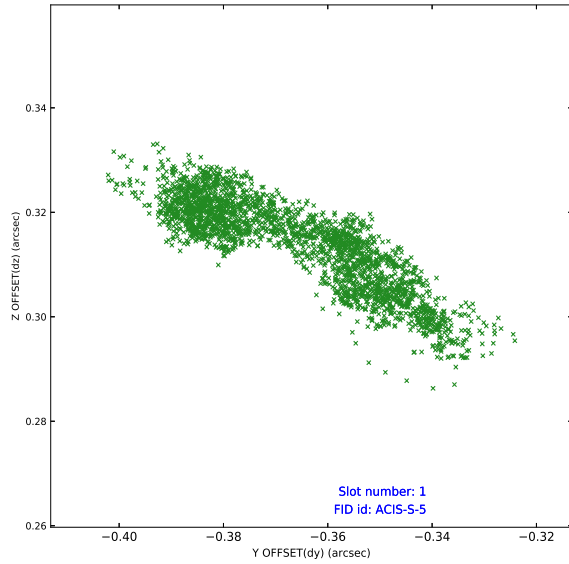


2.5 FID Slots

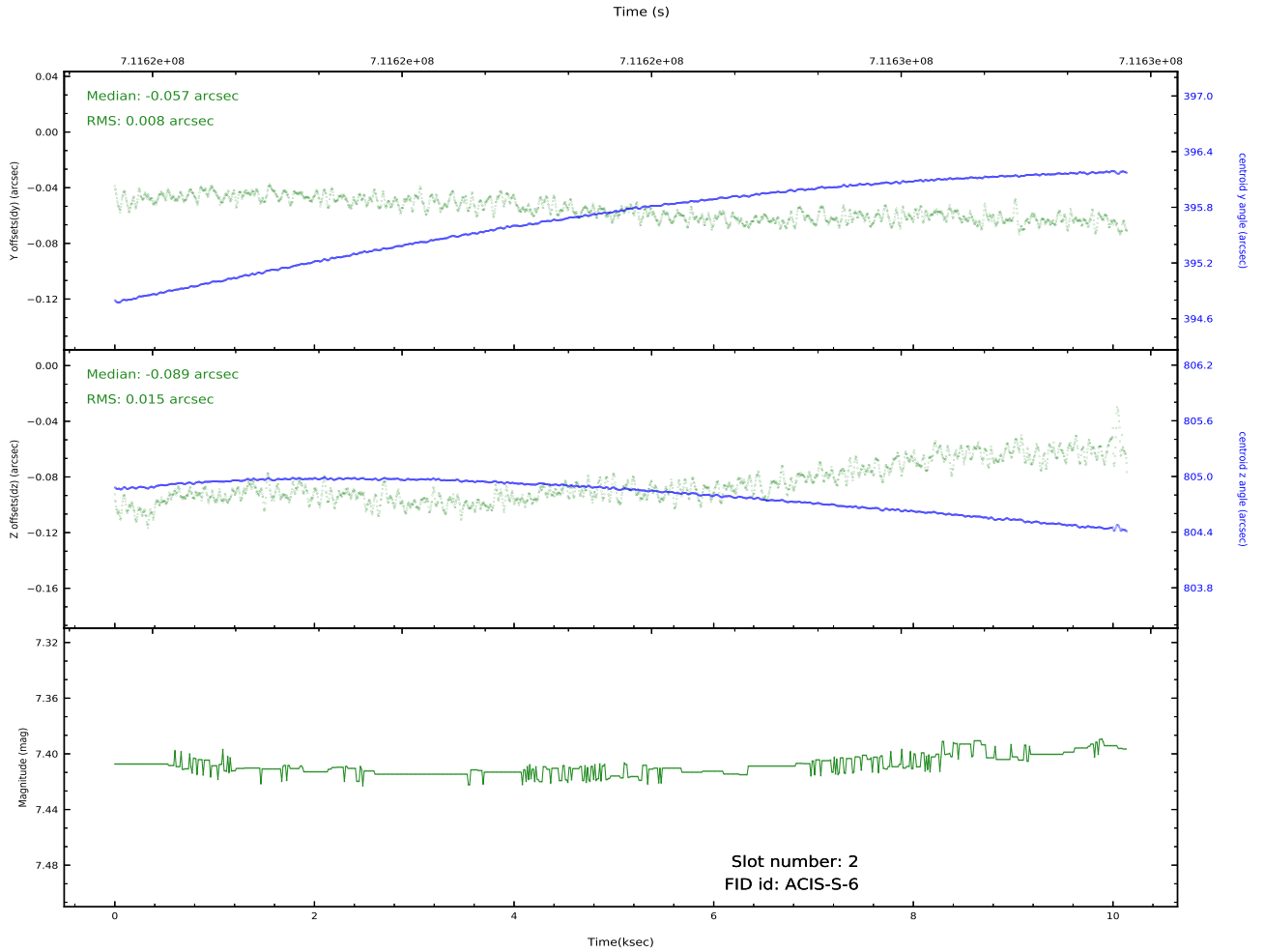
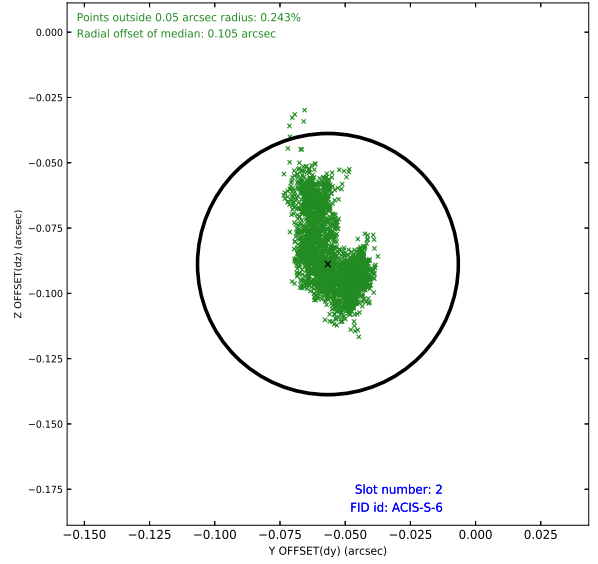
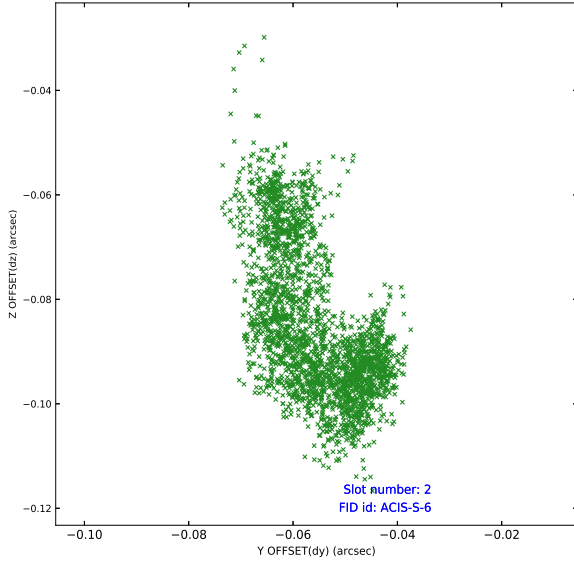
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2020.07.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.092

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.