

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5319 - L2 Version 4
Chandra X-Ray Center

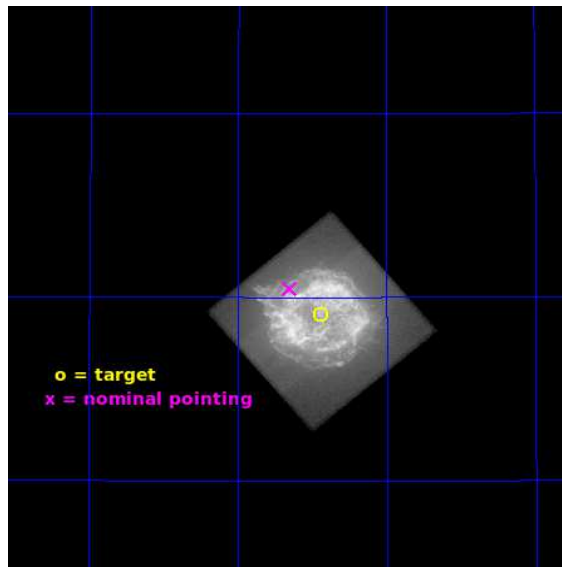
L2 Processing Date : Sep 25 2020

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1 Front

seq_num	500459	Sequence number
obs_id	5319	Observation id
title	The Cassiopeia A Explosion: Getting at the Core Issues	Proposal ti
observer	Dr Una Hwang	Principal investigator
object	Cassiopeia A	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.86125	Observer's specified target RA [deg]
dec_targ	58.8175	Observer's specified target Dec [deg]
ra_nom	350.91273014836	Nominal RA [deg]
dec_nom	58.841106697988	Nominal Dec [deg]
roll_nom	49.769760264542	Nominal Roll [deg]
revision	4	Processing version of data
ontime	42837.0	Sum of GTIs [s]
liveltime	42258.898271644	Livetime [s]
ontime7	42837.0	Sum of GTIs [s]
l2events	12705790	Number of level 2 events

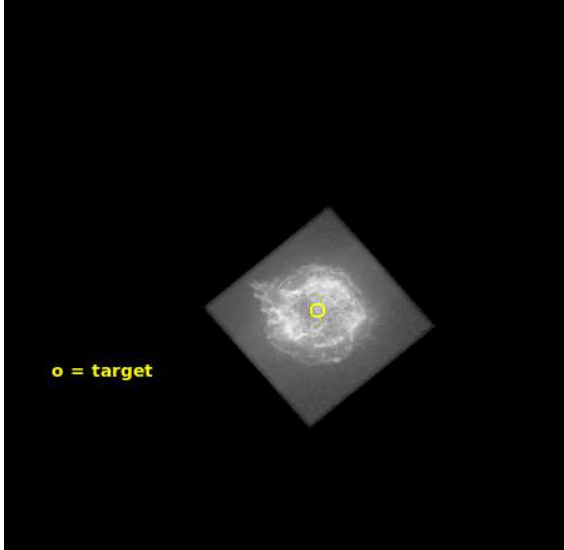


2 OBI

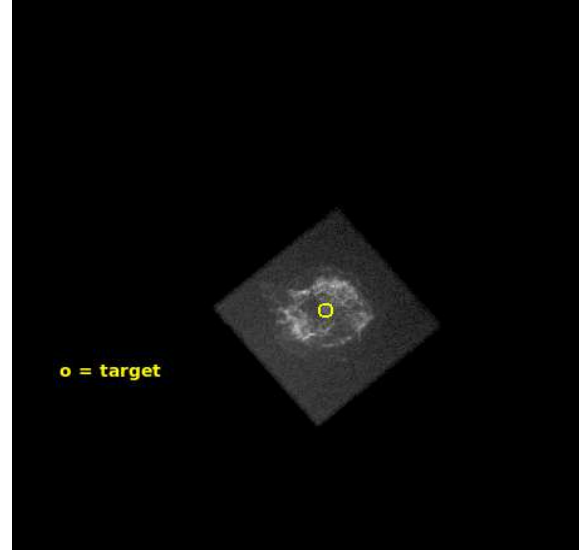
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	42388.863000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	42837.0	Sum of GTIs [s]
caldbver	4.9.2	 	ontime7	42837.0	Sum of GTIs [s]
date	2020-09-25T09:07:26	Date and time of file creation	l1events	13654993	Number of level 1 events
revision	4	Processing version of data			

2.1.3 Events

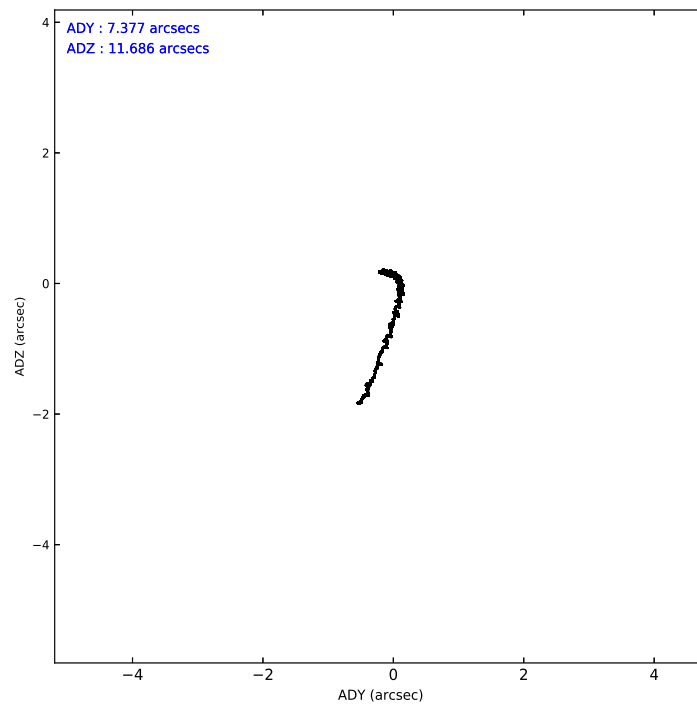
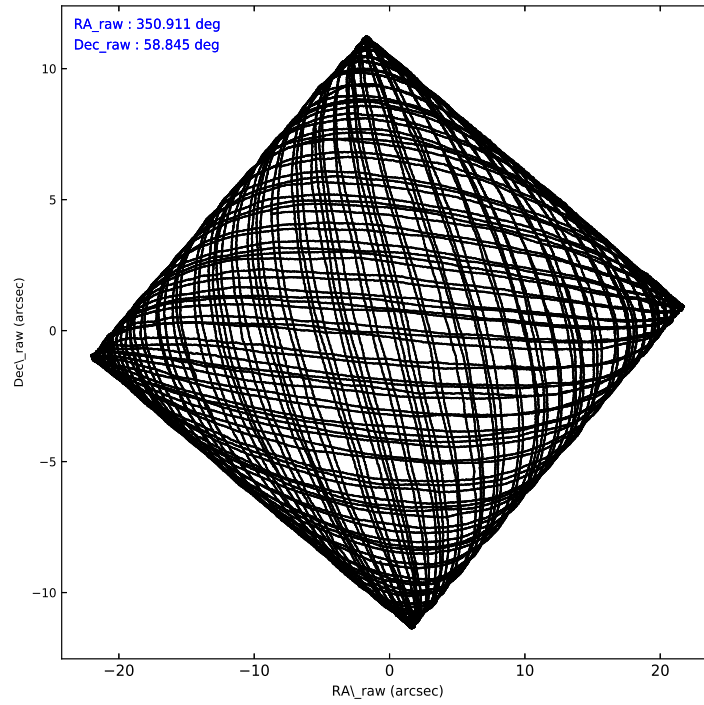
	ccd 7
level 1 events	13654993
rejected events	817733
rejected %	5%

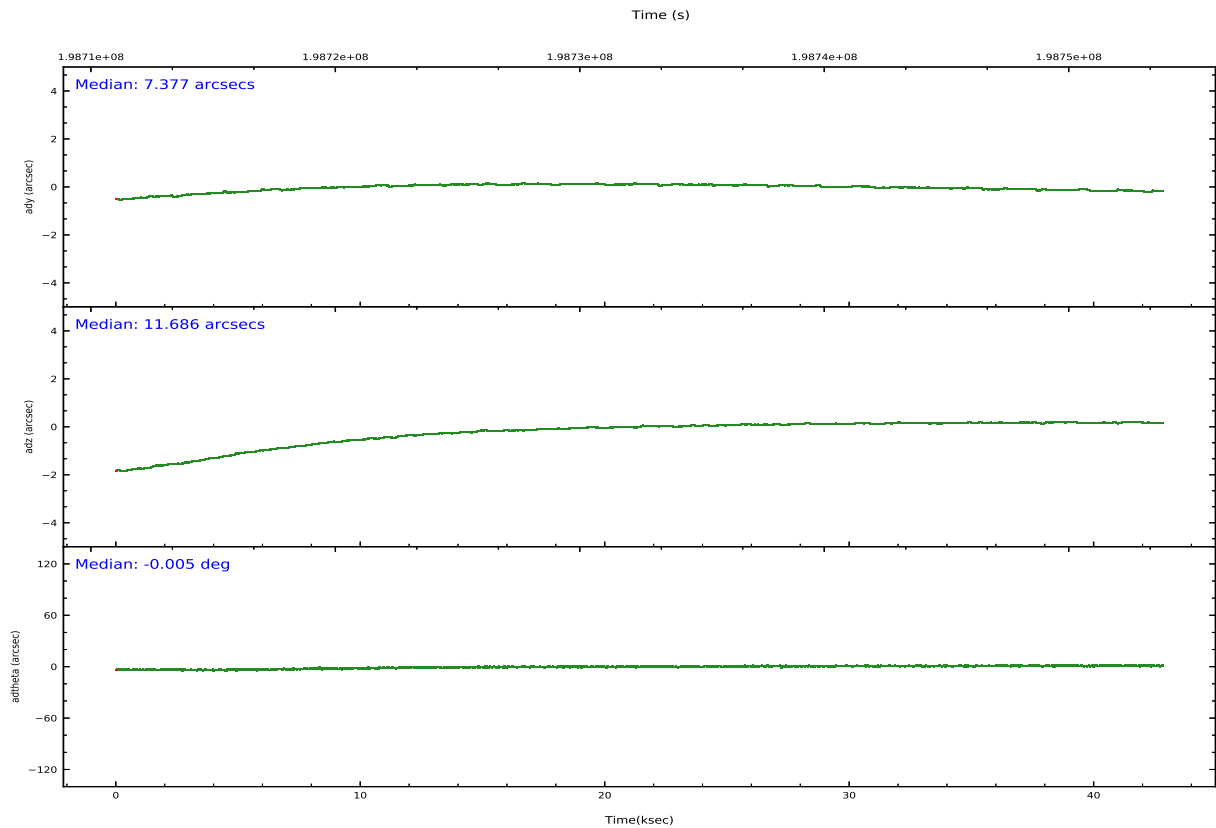
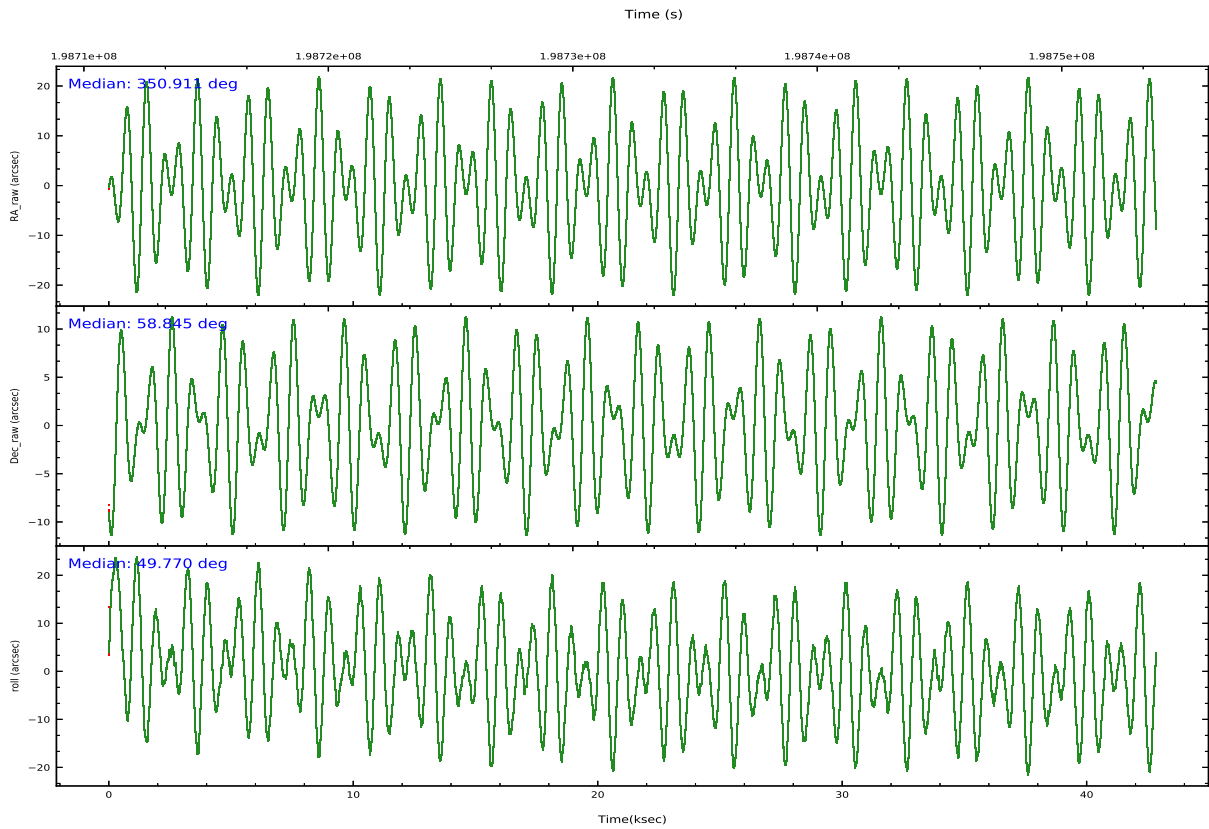
	ccd 7
grade 0 events	2856372
	20%
grade 1 events	51111
	0%
grade 2 events	3752830
	27%
grade 3 events	1383983
	10%
grade 4 events	1363082
	9%
grade 5 events	239537
	1%
grade 6 events	3522574
	25%
grade 7 events	485504
	3%

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	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	350.901823	350.91273014836	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.818026	58.841106697988	Alternating exposures requested	N	N
[deg] Pointing Roll	49.618278	49.769760264542	[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)	198711472.184000	198710376.93488			
Observation start date	2004-04-18T21:36:48	2004-04-18T21:19:36			
[s] Observation end time (MET)	198753861.184000	198754176.21181			
Observation end date	2004-04-19T09:23:17	2004-04-19T09:29:36			
Read mode	TIMED	TIMED			

2.3 Aspect





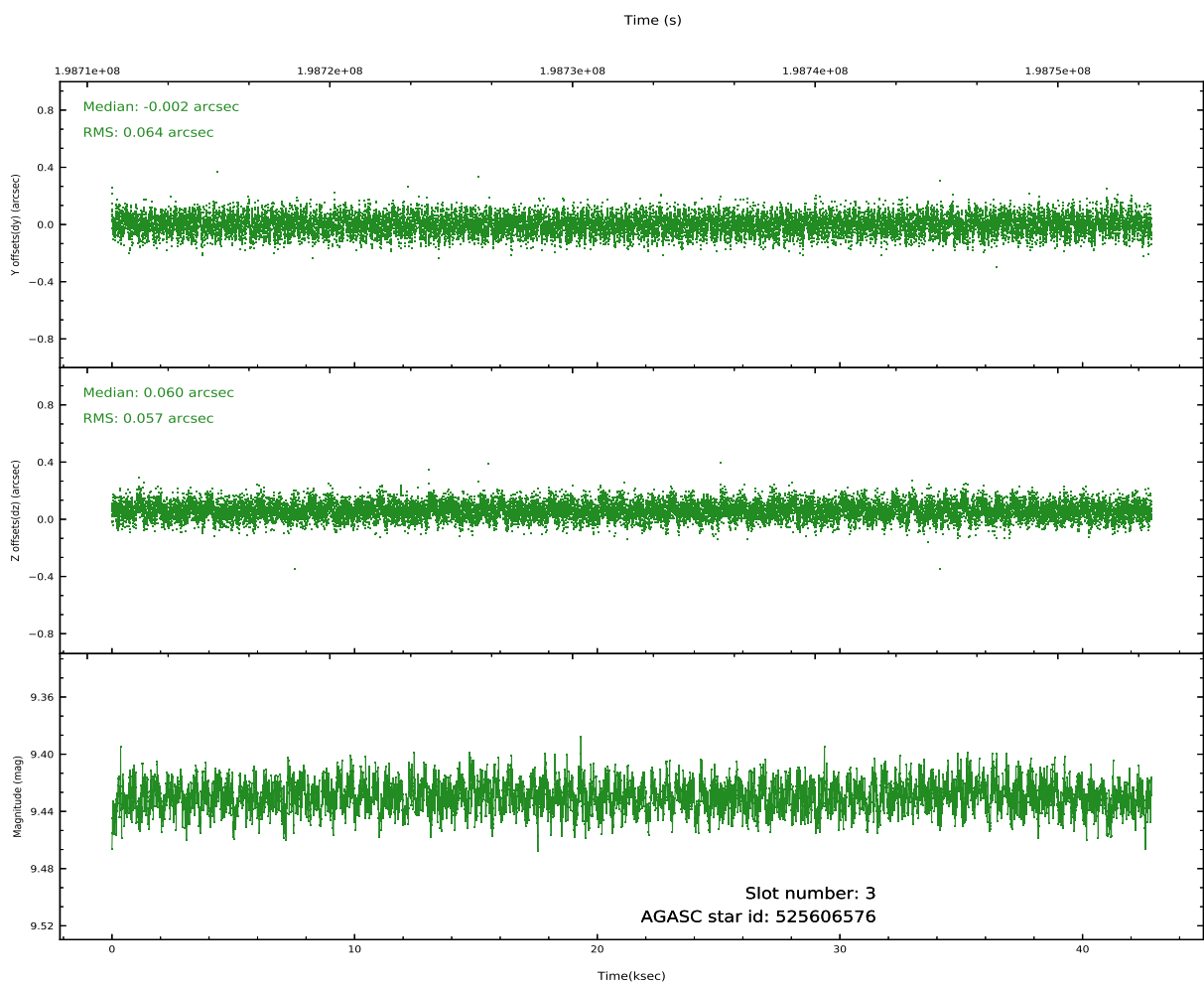
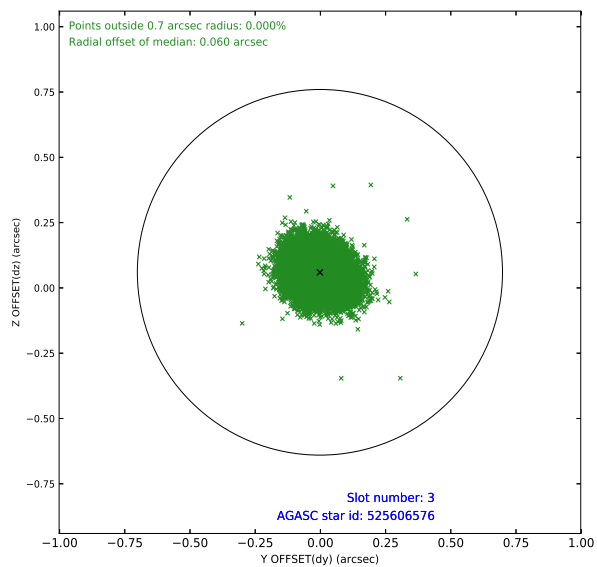
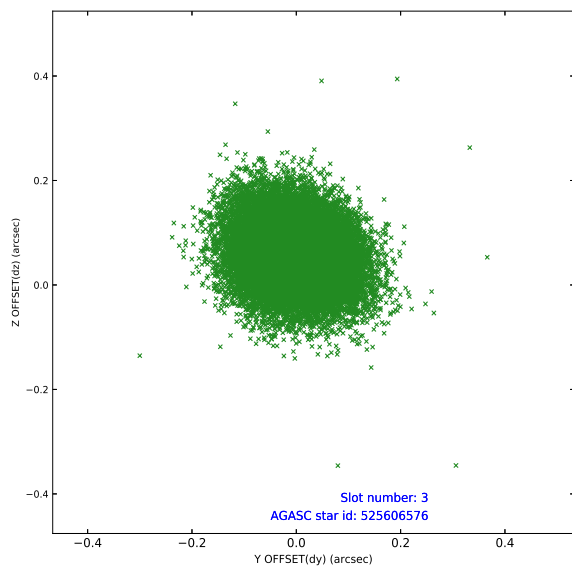
Slot Statistics

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	7.18	10450	1.000	0.067	-0.112	0.011	0.065	0.000000	0.000000	935.99	-1728
1	FID		ACIS-S-5	7.23	10448	1.000	-0.087	0.038	0.013	0.026	0.000000	0.000000	-1813.14	169
2	FID		ACIS-S-6	7.34	10449	1.000	-0.001	0.085	0.016	0.046	0.000000	0.000000	401.50	813
3	GUIDE	used	525606576	9.43	20889	1.000	-0.002	0.060	0.091	0.145	349.543555	58.678895	-2008.72	1628
4	GUIDE	used	525732232	9.11	20883	1.000	0.026	-0.000	0.073	0.120	351.669550	58.757012	767.85	-1229
5	GUIDE	used	525732488	8.41	20897	1.000	-0.095	-0.054	0.058	0.094	350.087090	58.516915	-1810.83	470
6	GUIDE	used	525736400	9.07	20888	1.000	0.006	0.031	0.070	0.113	350.974563	59.175145	1066.41	731
7	GUIDE	used	525732528	9.37	20882	1.000	0.064	-0.037	0.091	0.147	351.607241	59.298932	2164.21	138

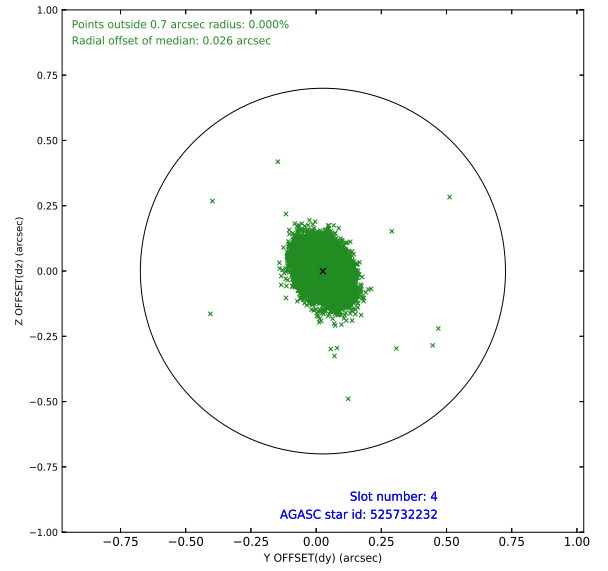
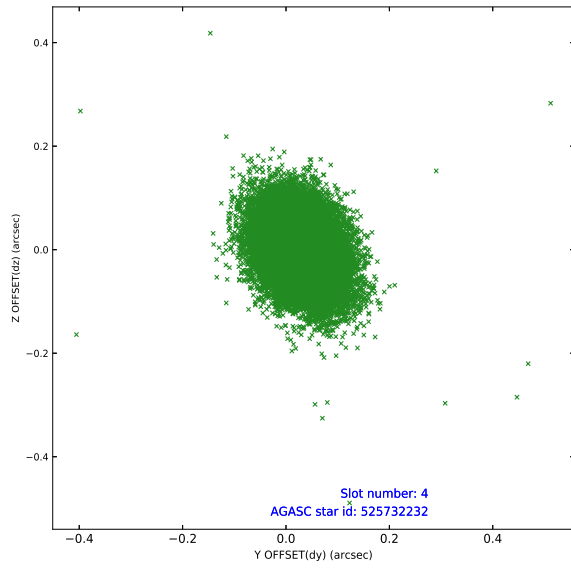
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2.4 Star Slots

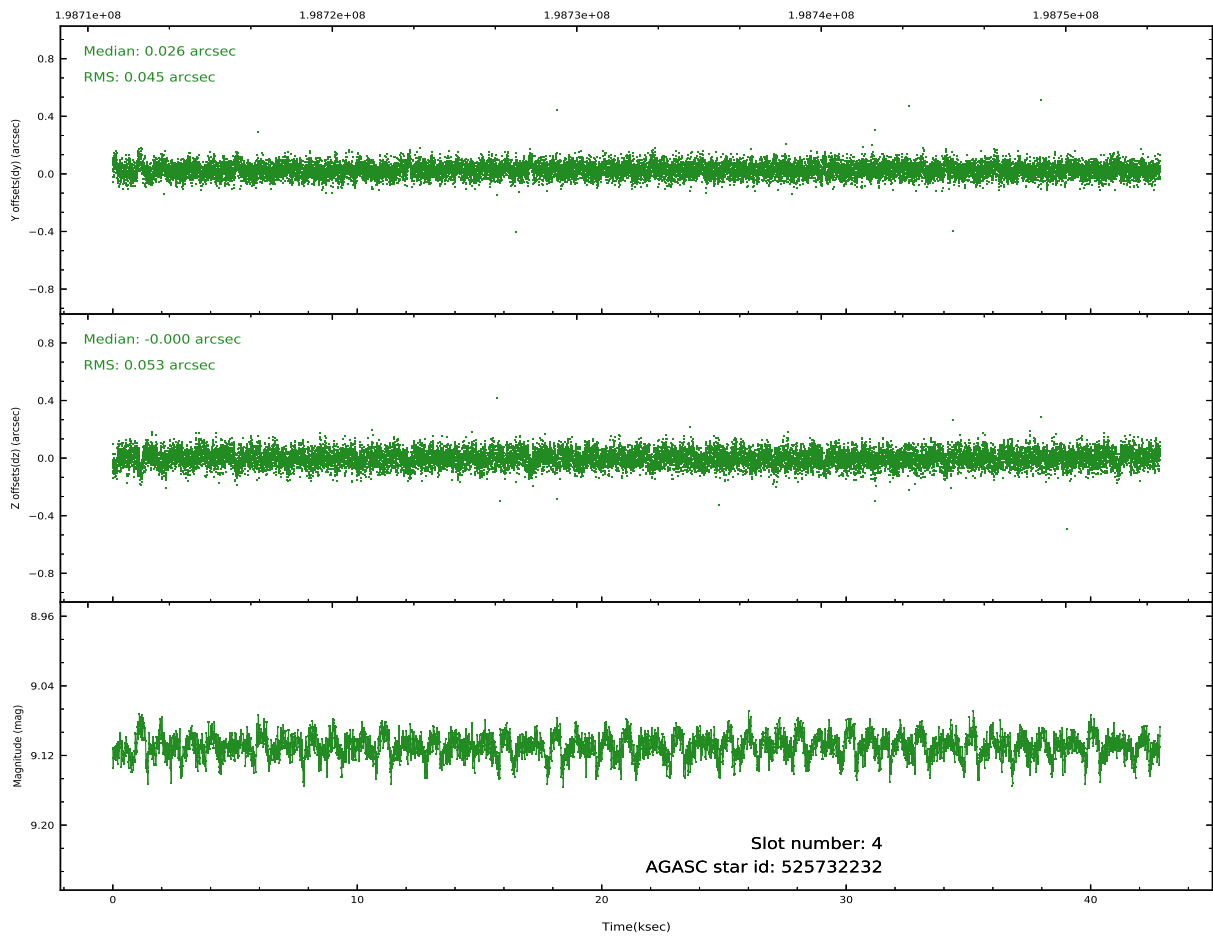
2.4.1 Slot 3



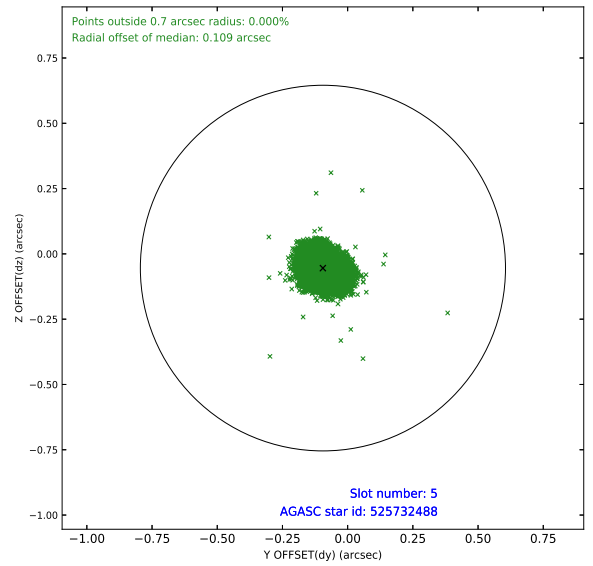
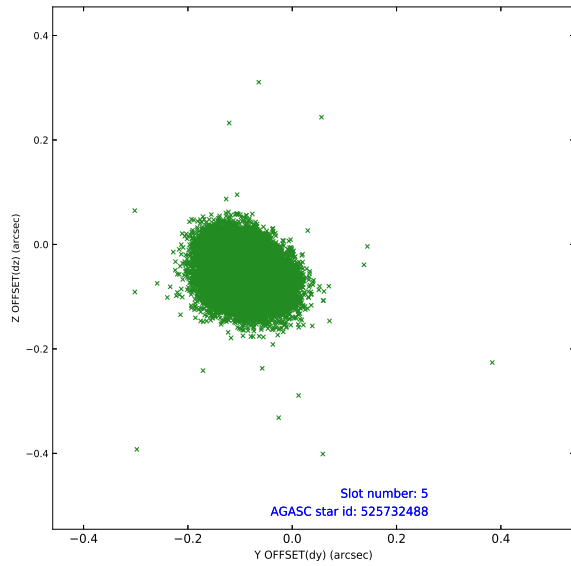
2.4.2 Slot 4



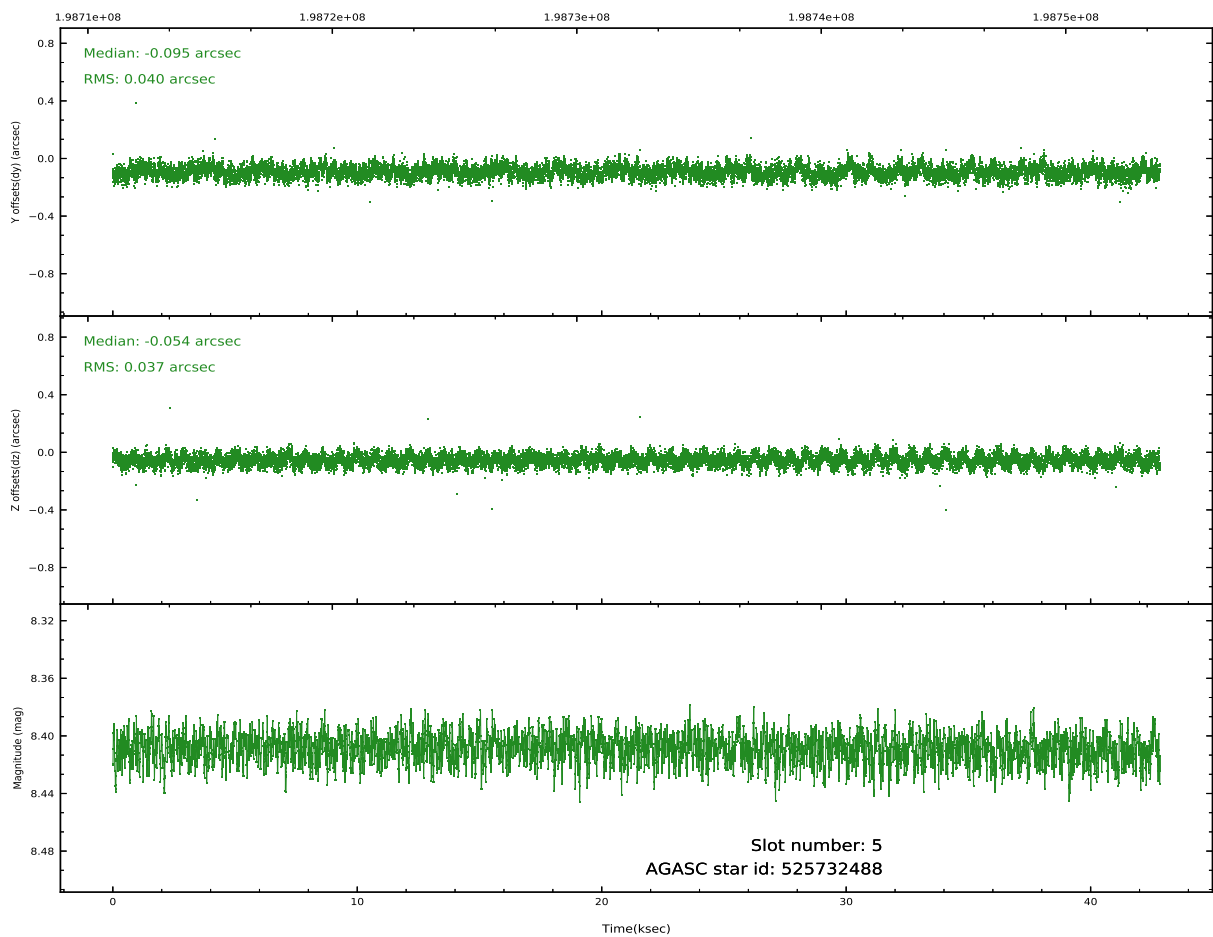
Time (s)



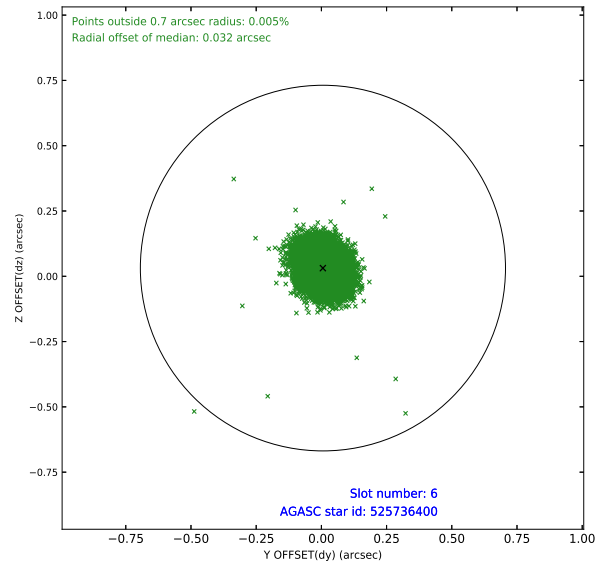
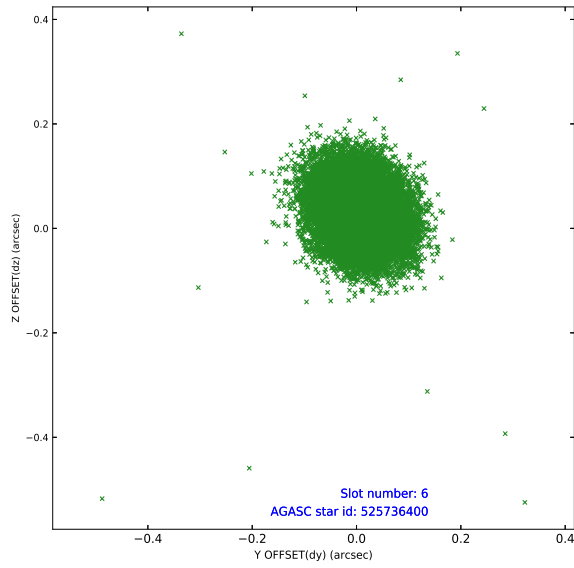
2.4.3 Slot 5



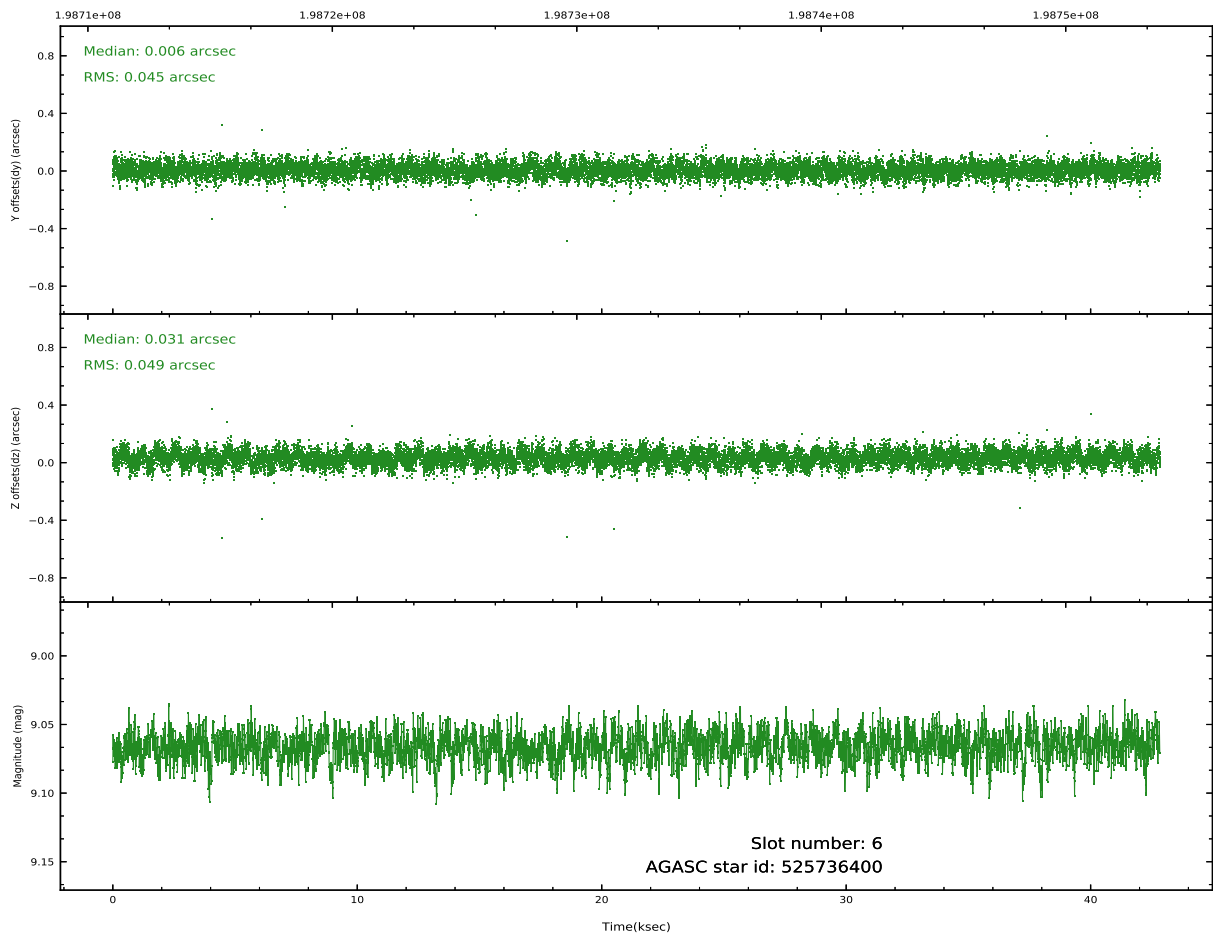
Time (s)



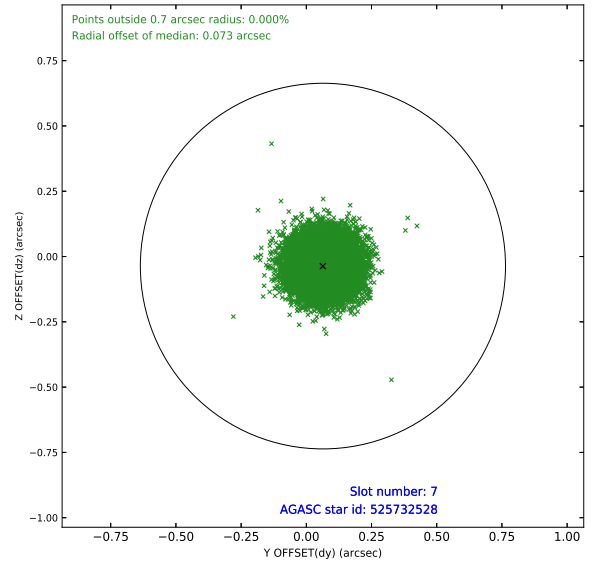
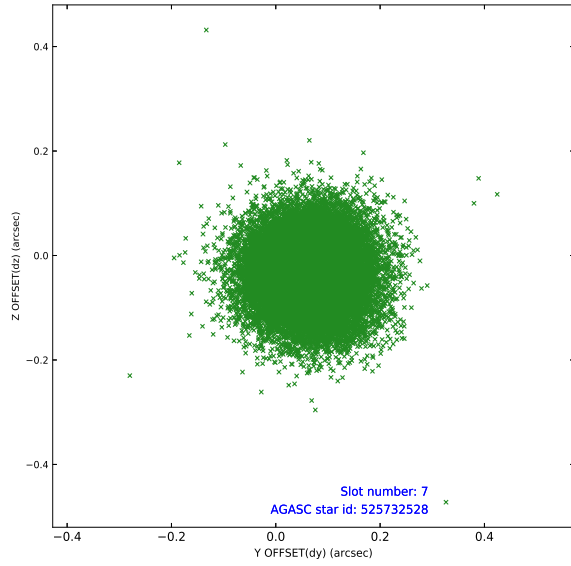
2.4.4 Slot 6



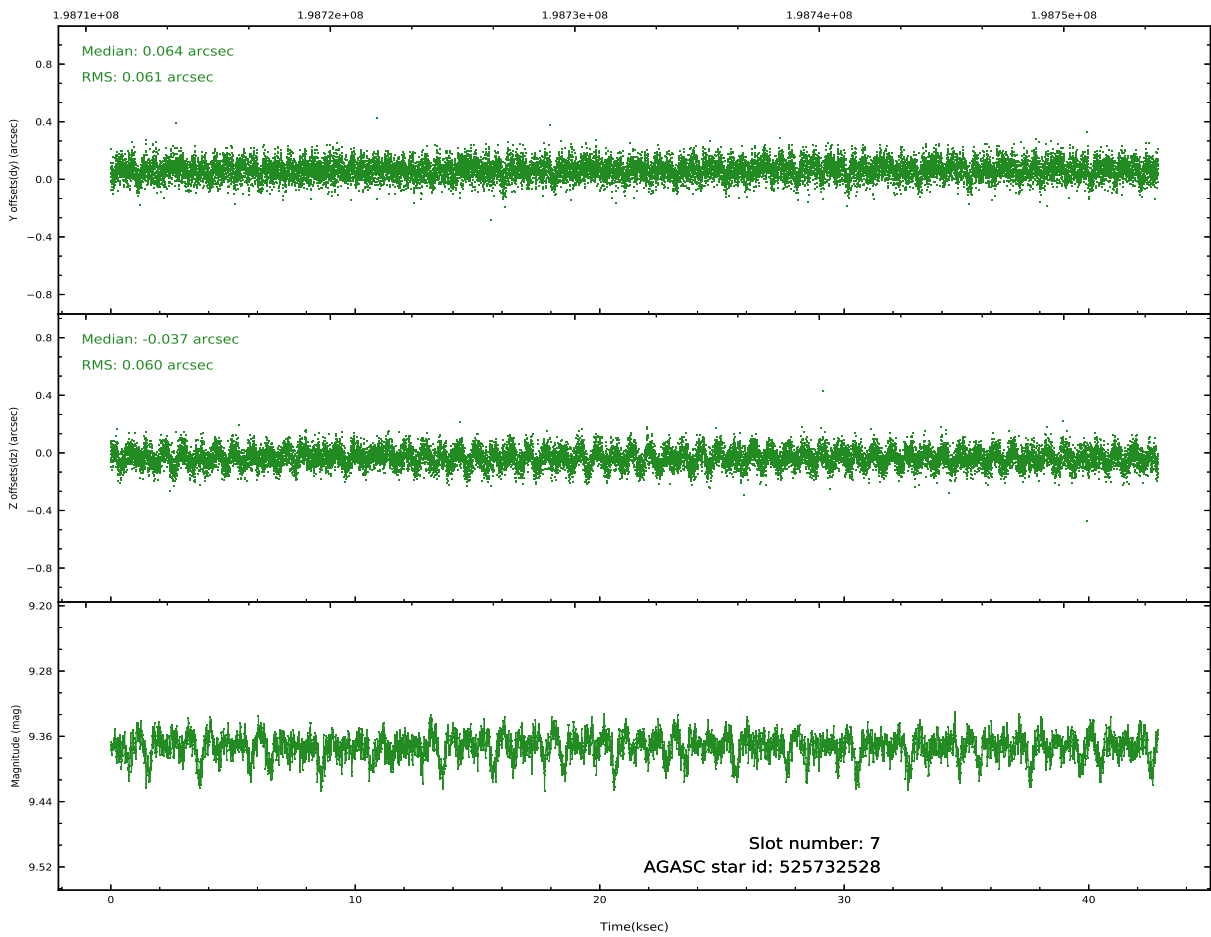
Time (s)



2.4.5 Slot 7

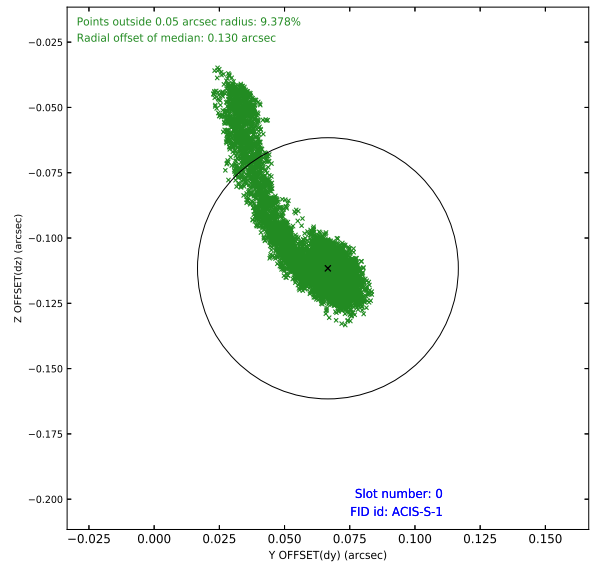
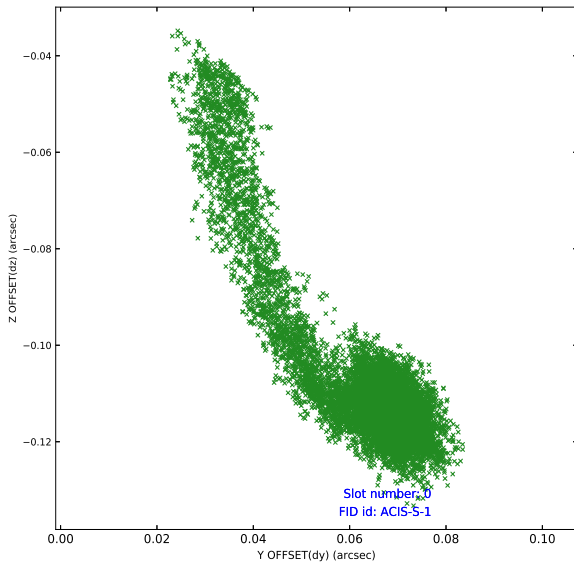


Time (s)

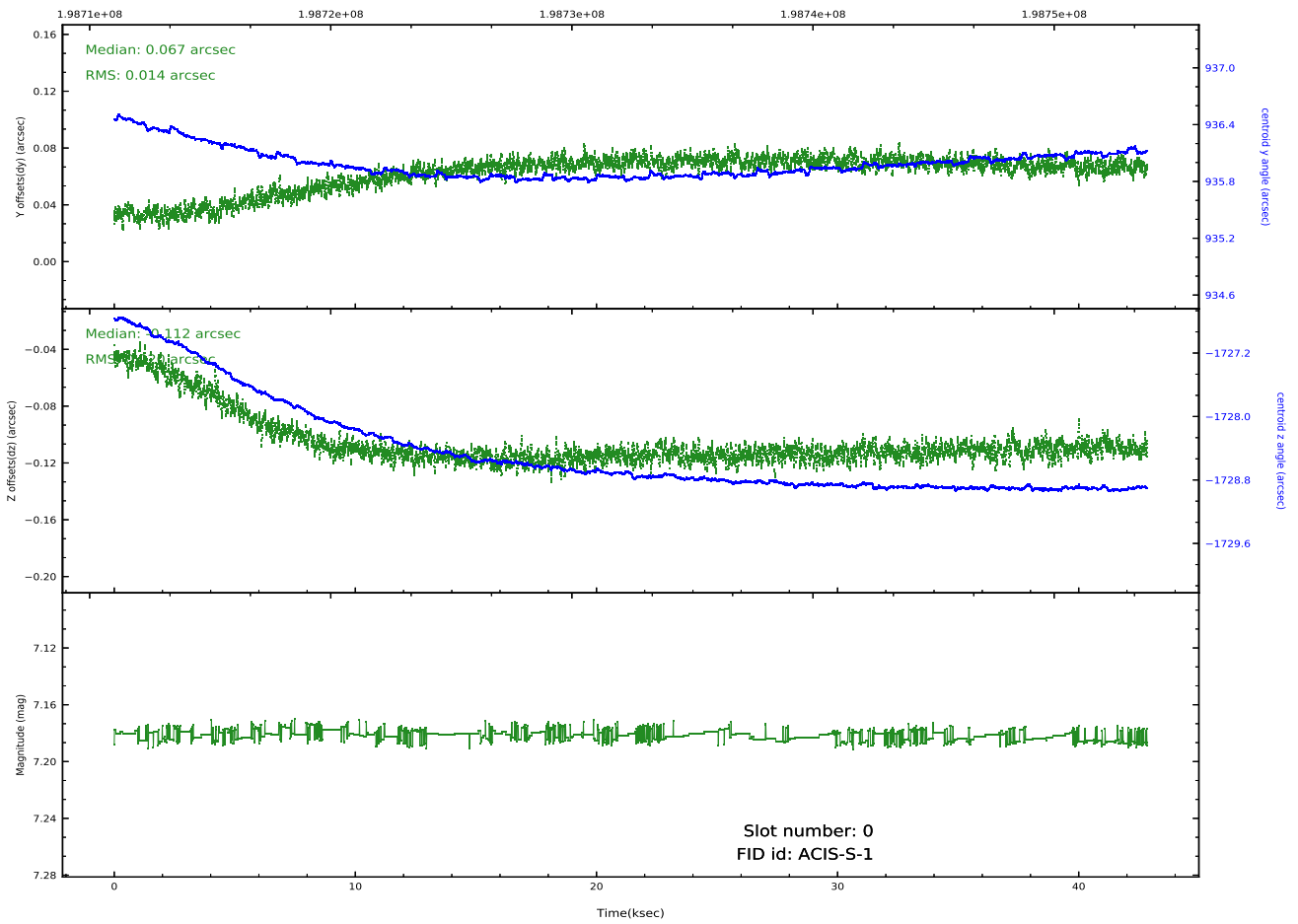


2.5 FID Slots

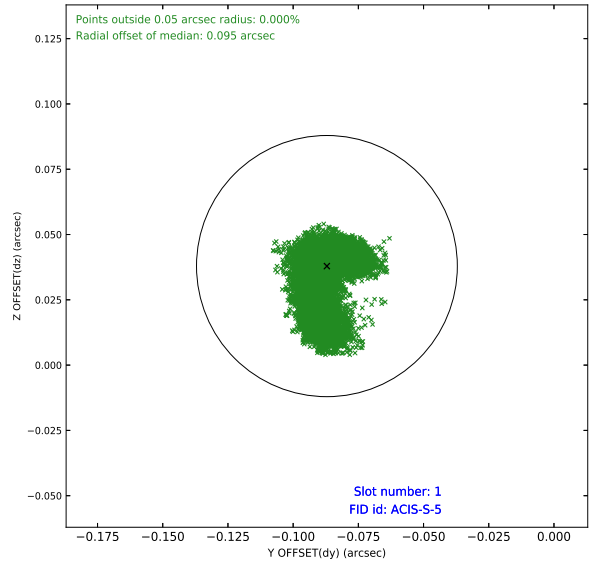
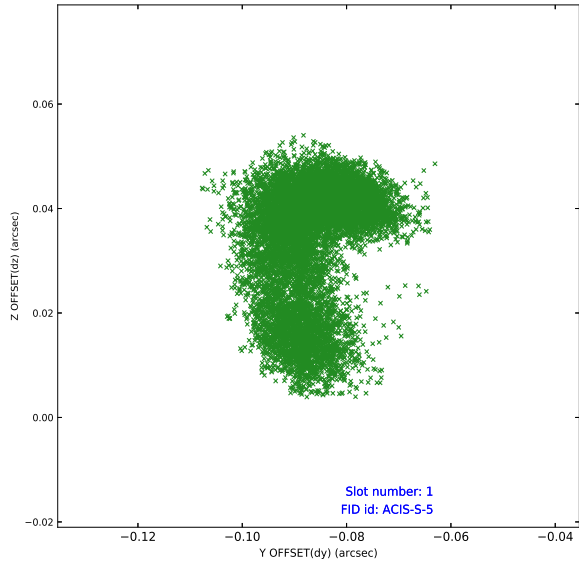
2.5.1 Slot 0



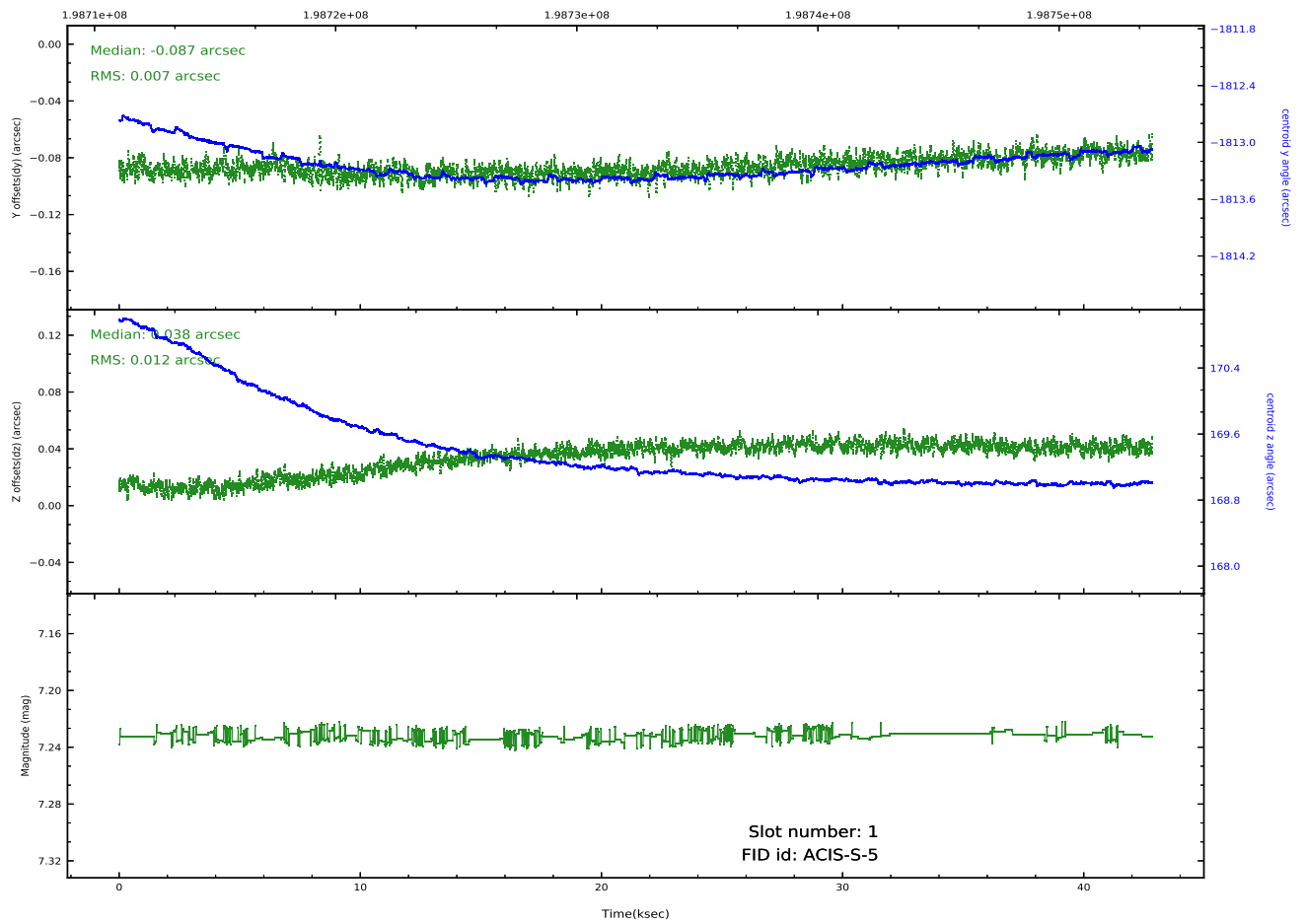
Time (s)



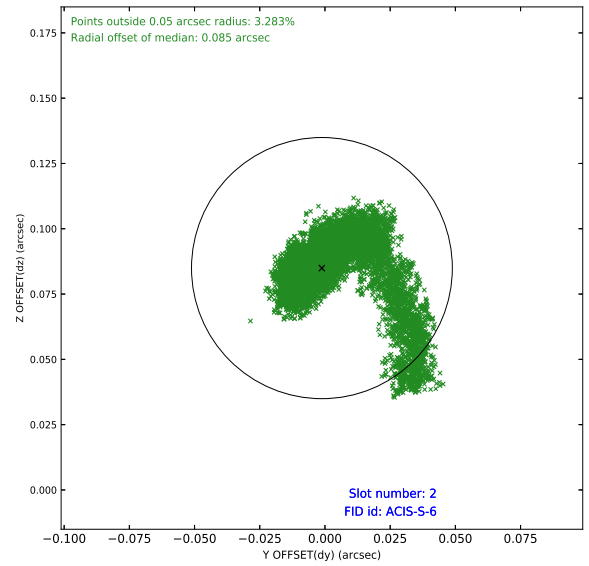
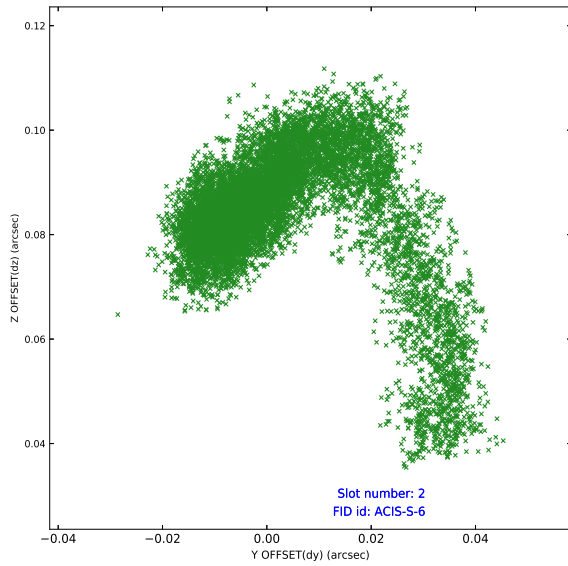
2.5.2 Slot 1



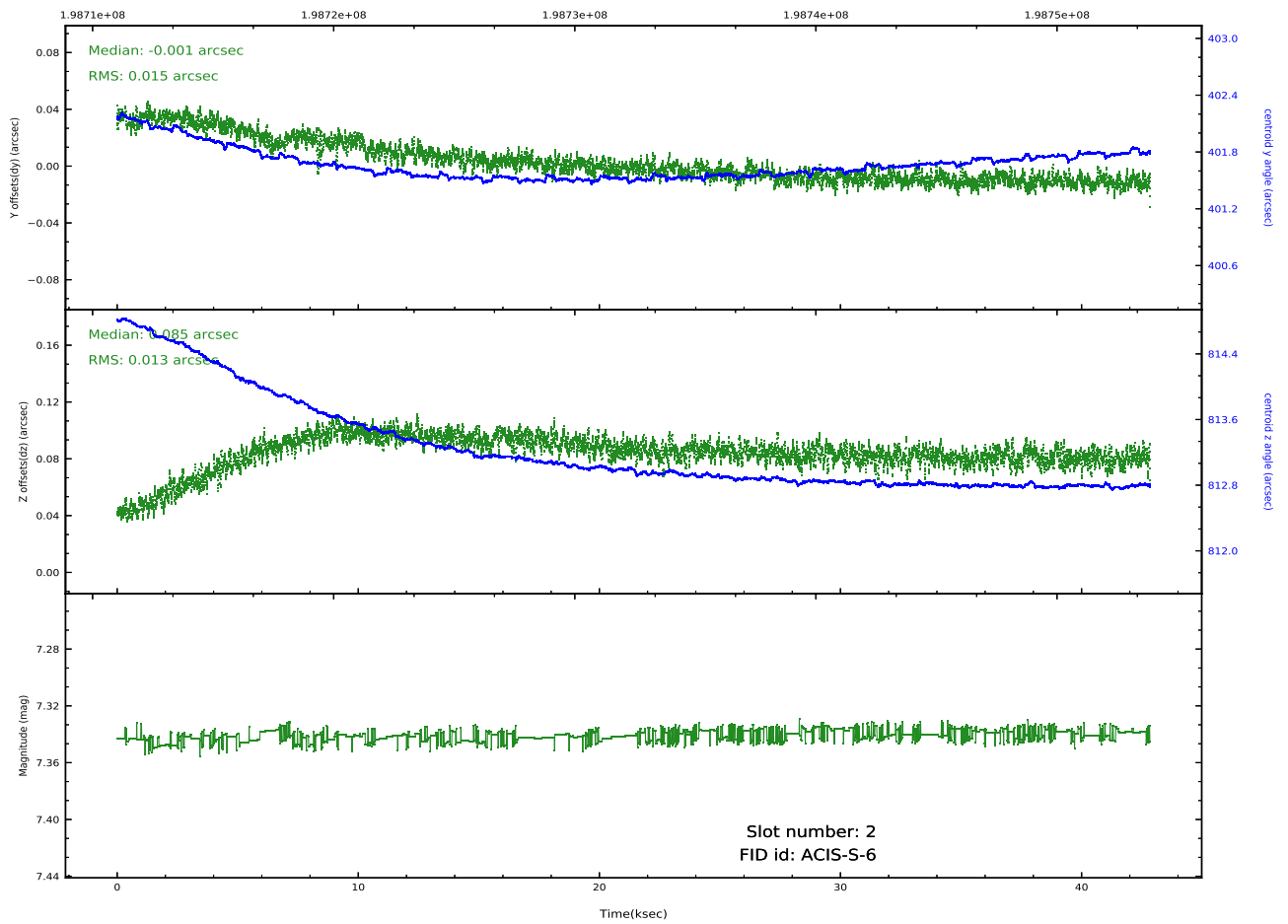
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	42.837

A.2 Comments