

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6178 - L2 Version 4
Chandra X-Ray Center

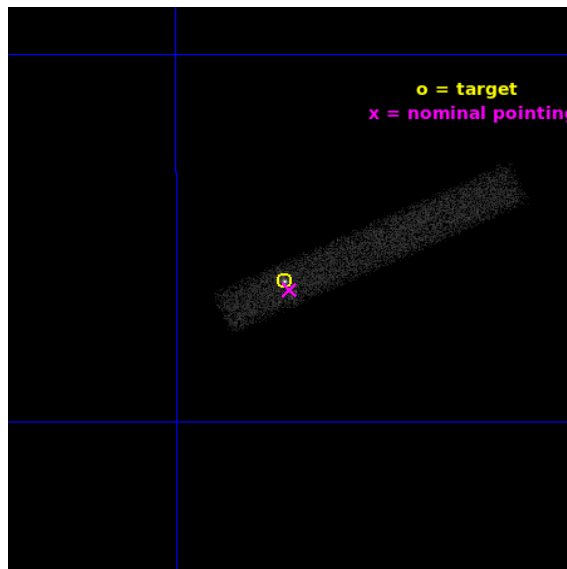
L2 Processing Date : Oct 6 2020

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1 Front

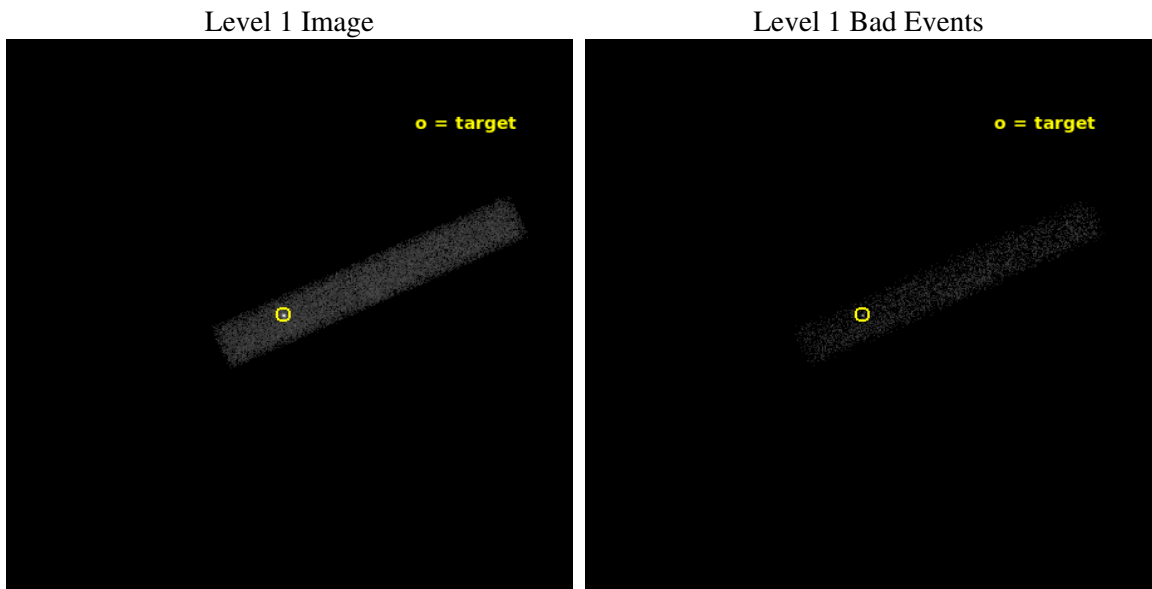
seq_num	500568	Sequence number
obs_id	6178	Observation id
title	Chandra AO6 Monitoring Images of SNR1987A	Proposal title
observer	David Burrows	Principal investigator
object	SN 1987A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.866667	Observer's specified target RA [deg]
dec_targ	-69.26975	Observer's specified target Dec [deg]
ra_nom	83.859878261793	Nominal RA [deg]
dec_nom	-69.273662618353	Nominal Dec [deg]
roll_nom	335.13515736789	Nominal Roll [deg]
revision	4	Processing version of data
ontime	18166.400270671	Sum of GTIs [s]
livetime	16475.966144269	Livetime [s]
ontime7	18166.400270671	Sum of GTIs [s]
l2events	20553	Number of level 2 events



2 OBI

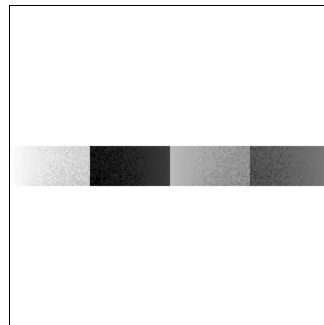
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	18166.400270671	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	18166.400270671	Sum of GTIs [s]
date	2020-10-06T04:01:59	Date and time of file creation	l1events	35479	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

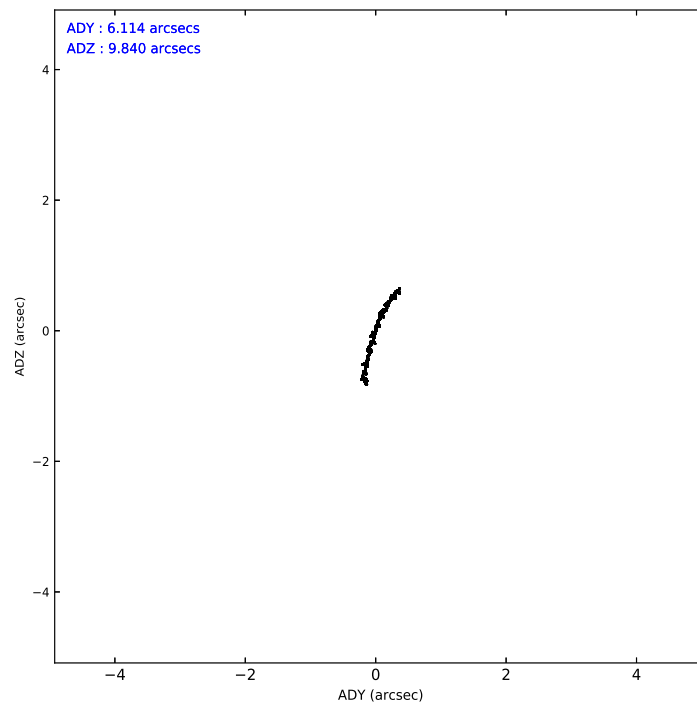
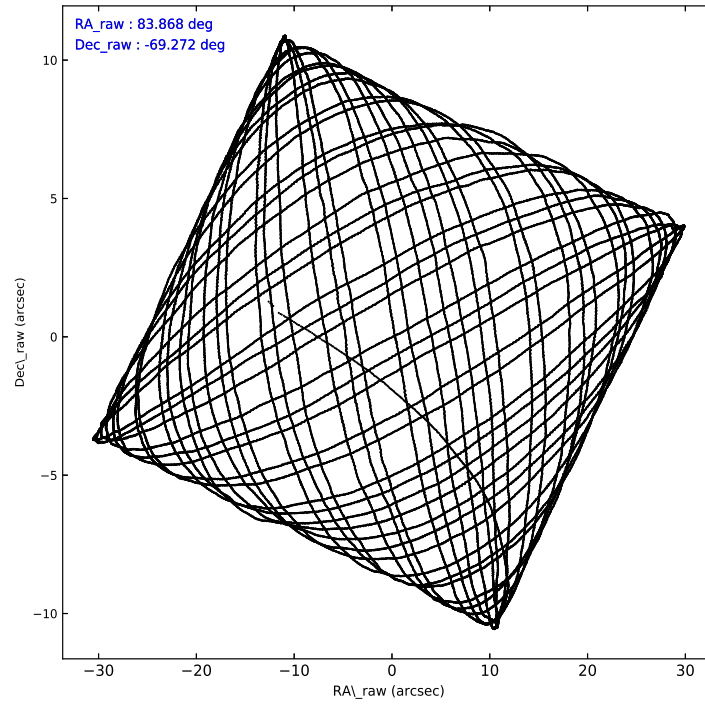
	ccd 7
level 1 events	35479
rejected events	14445
rejected %	40%

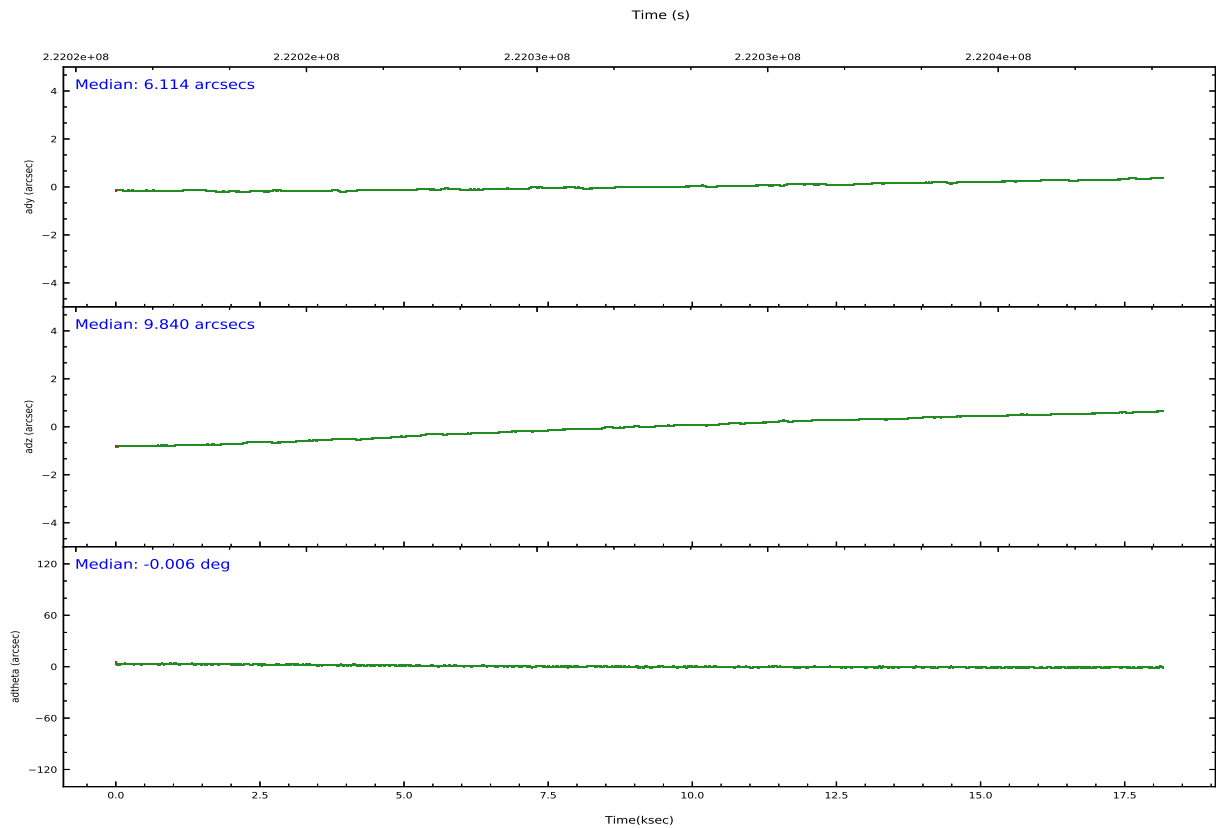
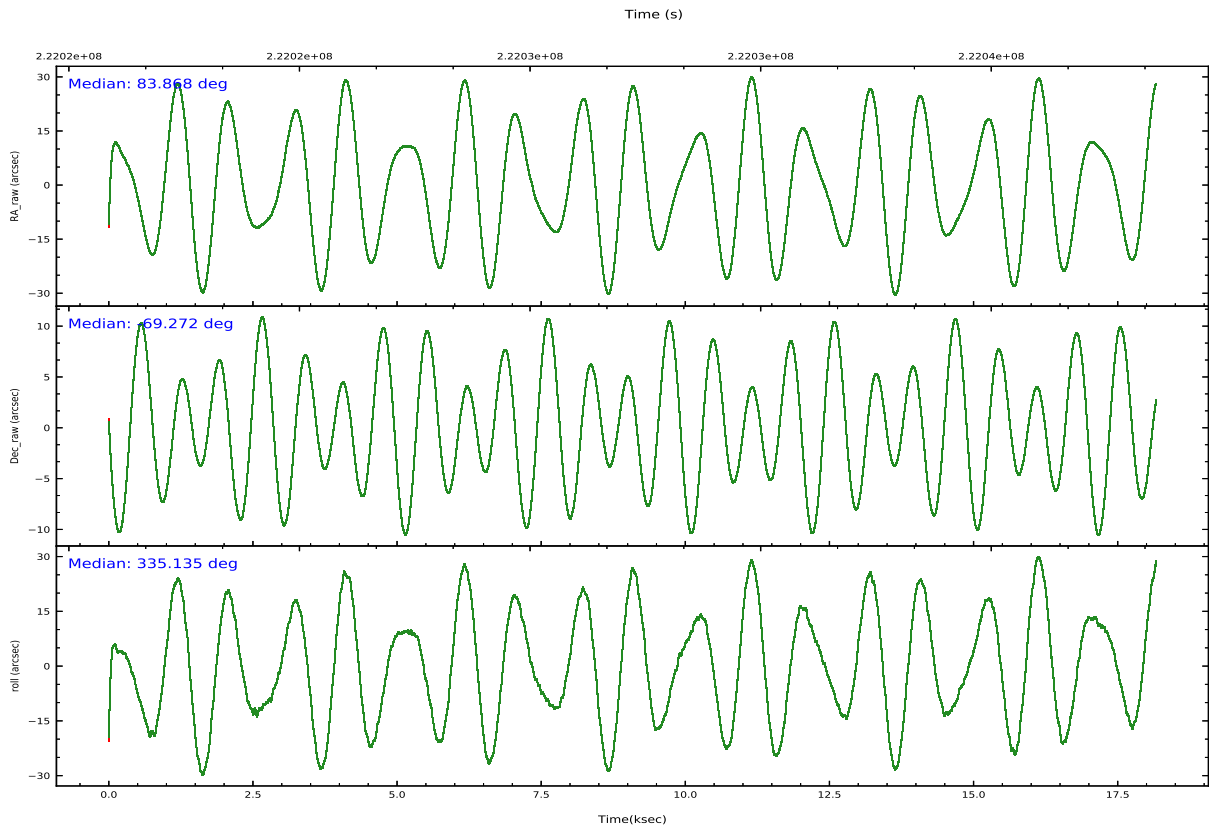
	ccd 7
grade 0 events	4194
	11%
grade 1 events	75
	0%
grade 2 events	5068
	14%
grade 3 events	2715
	7%
grade 4 events	2634
	7%
grade 5 events	2457
	6%
grade 6 events	7077
	19%
grade 7 events	11259
	31%

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	83.791351	83.859878261793	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-69.274583	-69.273662618353	Subarray start row	449	449
[deg] Pointing Roll	334.910961	335.13515736789	Subarray row count	128	128
[s] Window start time (MET)	221616064.184000	221616064.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	223171264.184000	223171264.184000	[s] Primary exposure time	0.000000	0.4
[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)	222020861.184000	222019735.38636			
Observation start date	2005-01-13T16:26:37	2005-01-13T16:08:55			
[s] Observation end time (MET)	222038861.184000	222039648.06226			
Observation end date	2005-01-13T21:26:37	2005-01-13T21:40:48			
Read mode	TIMED	TIMED			

2.3 Aspect





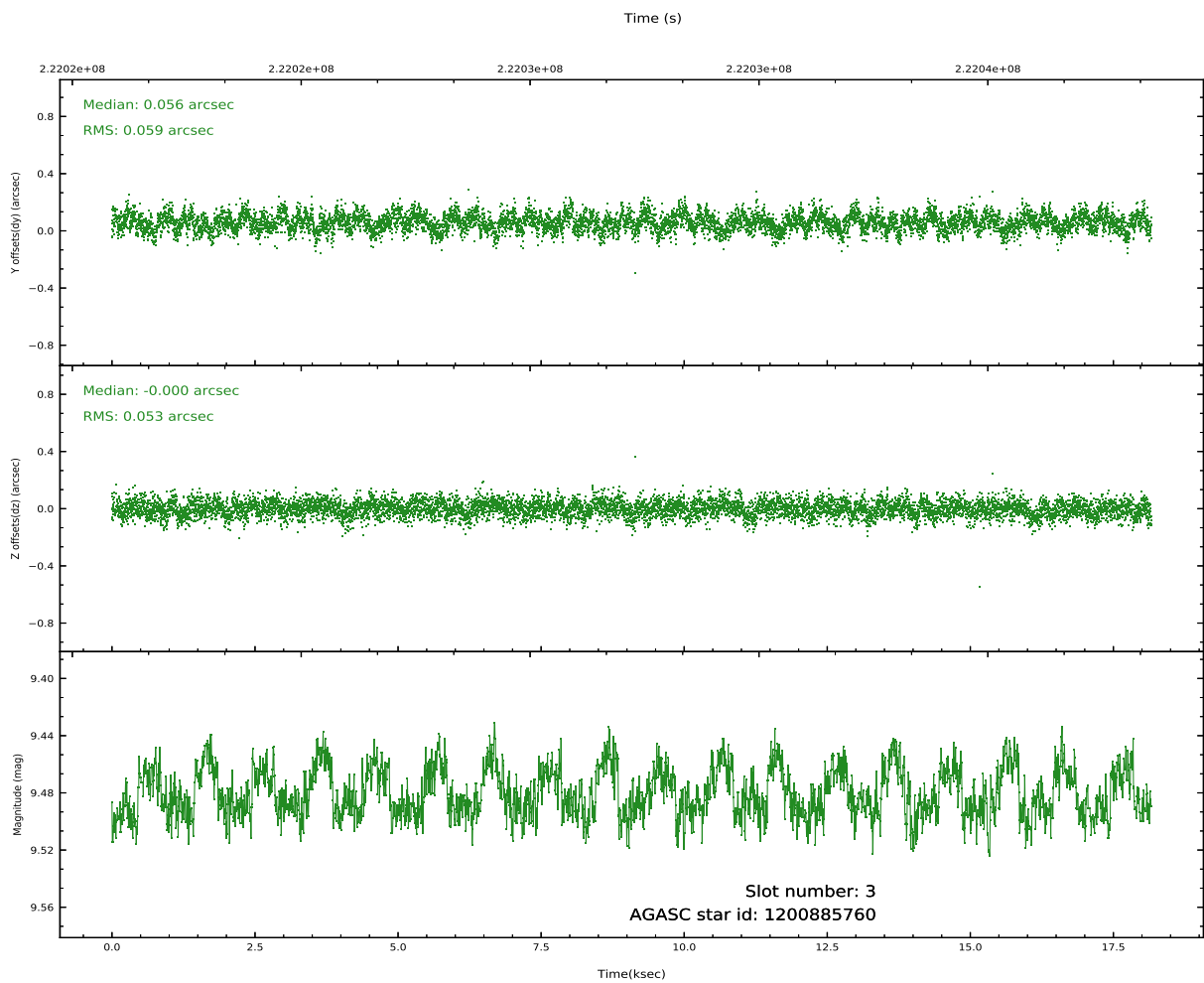
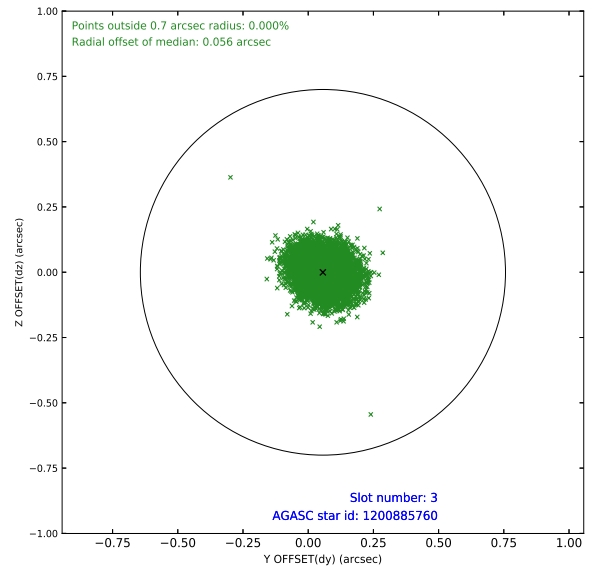
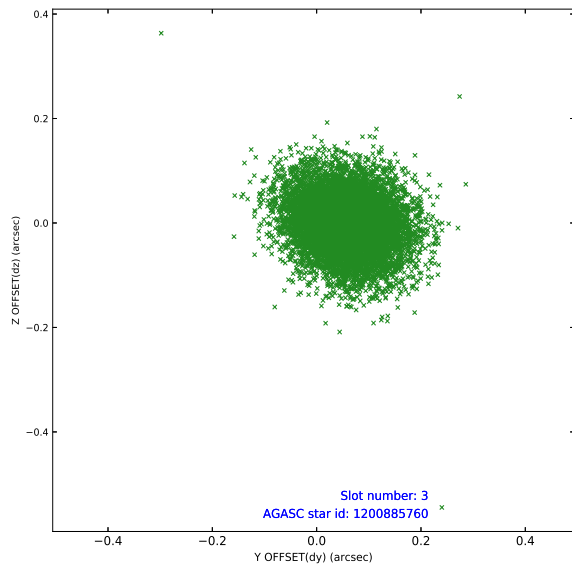
Slot Statistics

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	7.18	4432	1.000	0.034	-0.048	0.019	0.029	0.000000	0.000000	937.21	-1726
1	FID		ACIS-S-5	7.24	4430	1.000	-0.116	0.006	0.014	0.024	0.000000	0.000000	-1811.81	170
2	FID		ACIS-S-6	7.35	4432	1.000	0.060	0.054	0.026	0.035	0.000000	0.000000	402.55	814
3	GUIDE	used	1200885760	9.48	8852	1.000	0.056	-0.000	0.083	0.137	83.723637	-68.777667	-838.40	1582
4	GUIDE	used	1201542672	8.21	8862	1.000	-0.040	0.066	0.073	0.117	84.492488	-69.957531	1828.35	-1862
5	GUIDE	used	1200884248	9.48	8855	1.000	-0.009	-0.129	0.126	0.203	83.880915	-68.565170	-976.13	2362
6	GUIDE	used	1201411288	9.25	8858	1.000	-0.121	0.040	0.096	0.156	81.410076	-69.595403	-2191.70	-2365
7	GUIDE	used	1201410616	9.33	8856	1.000	0.112	0.018	0.111	0.181	82.516808	-69.784406	-650.24	-2349

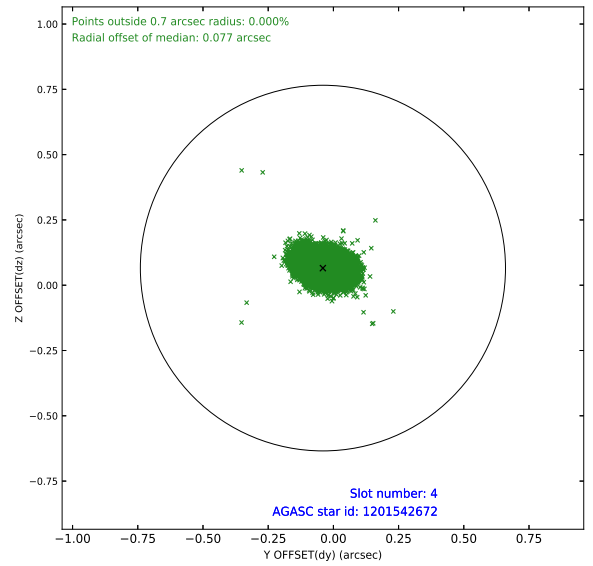
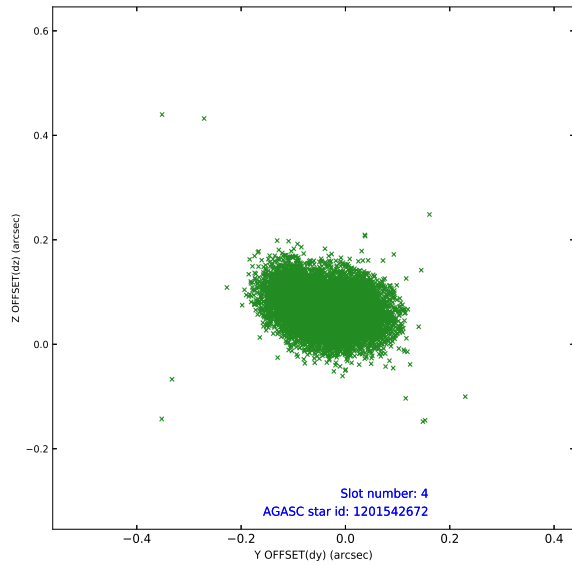
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2.4 Star Slots

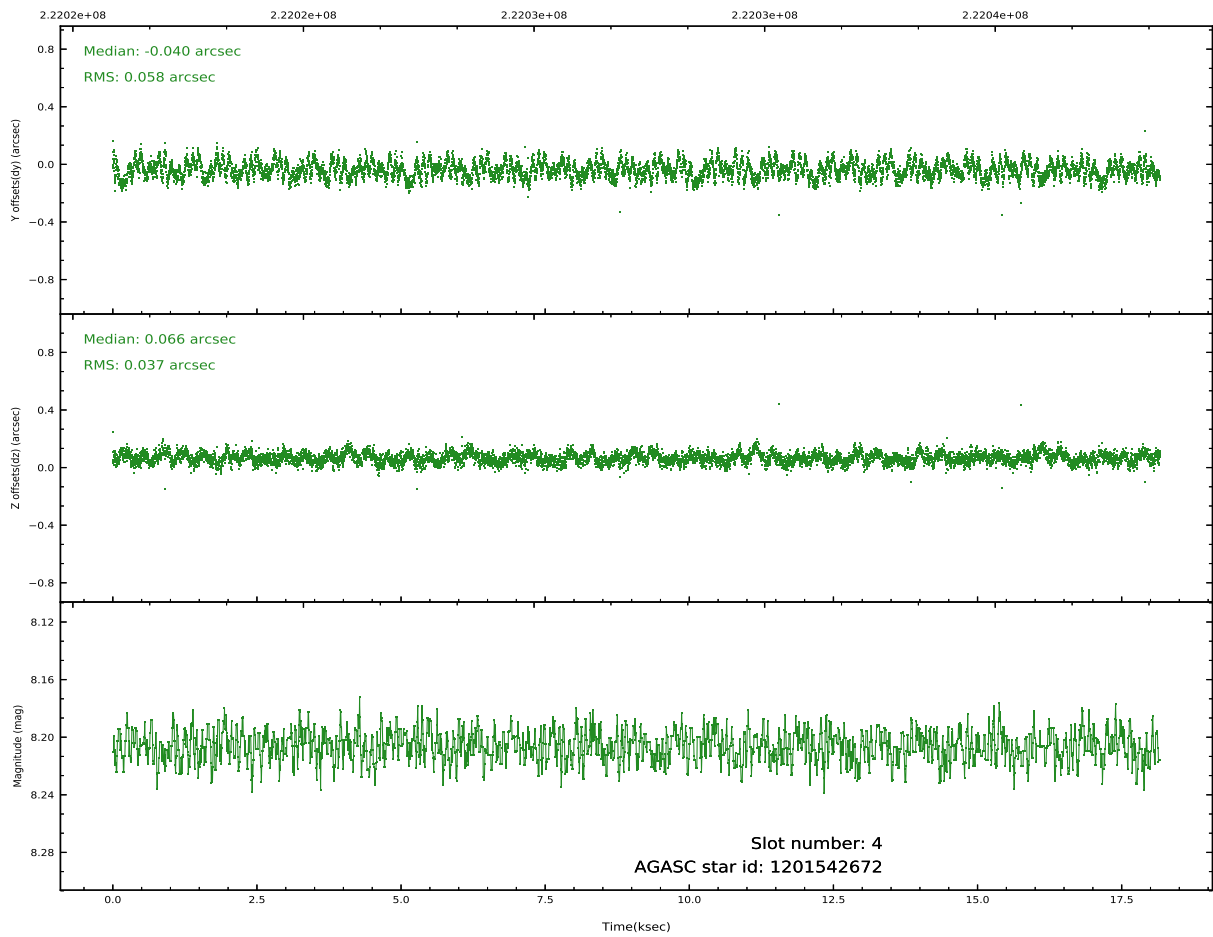
2.4.1 Slot 3



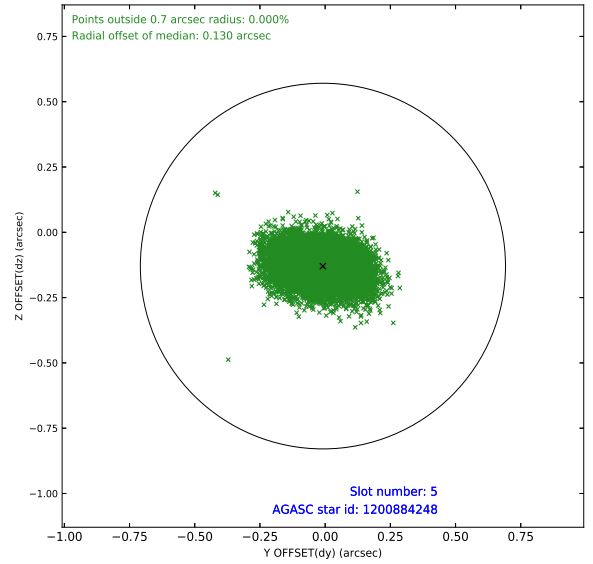
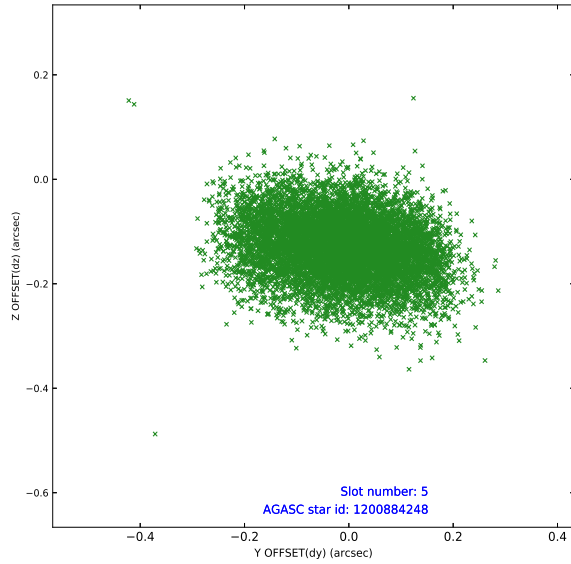
2.4.2 Slot 4



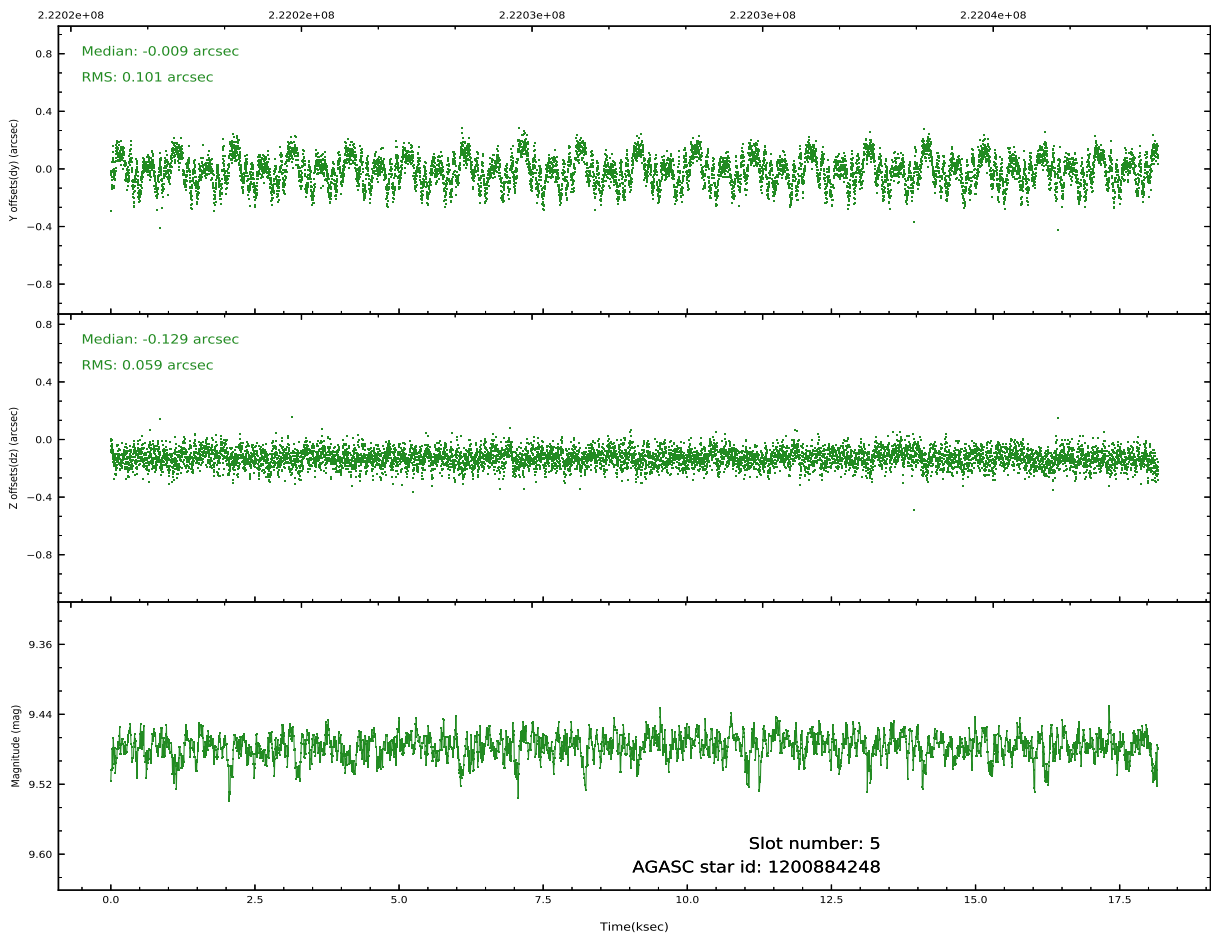
Time (s)



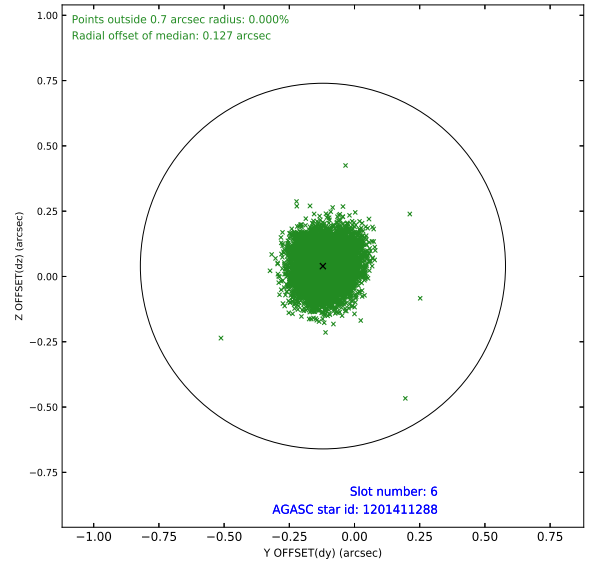
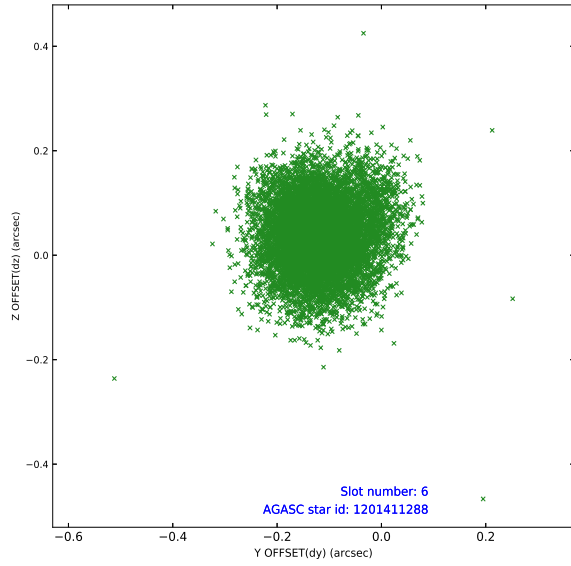
2.4.3 Slot 5



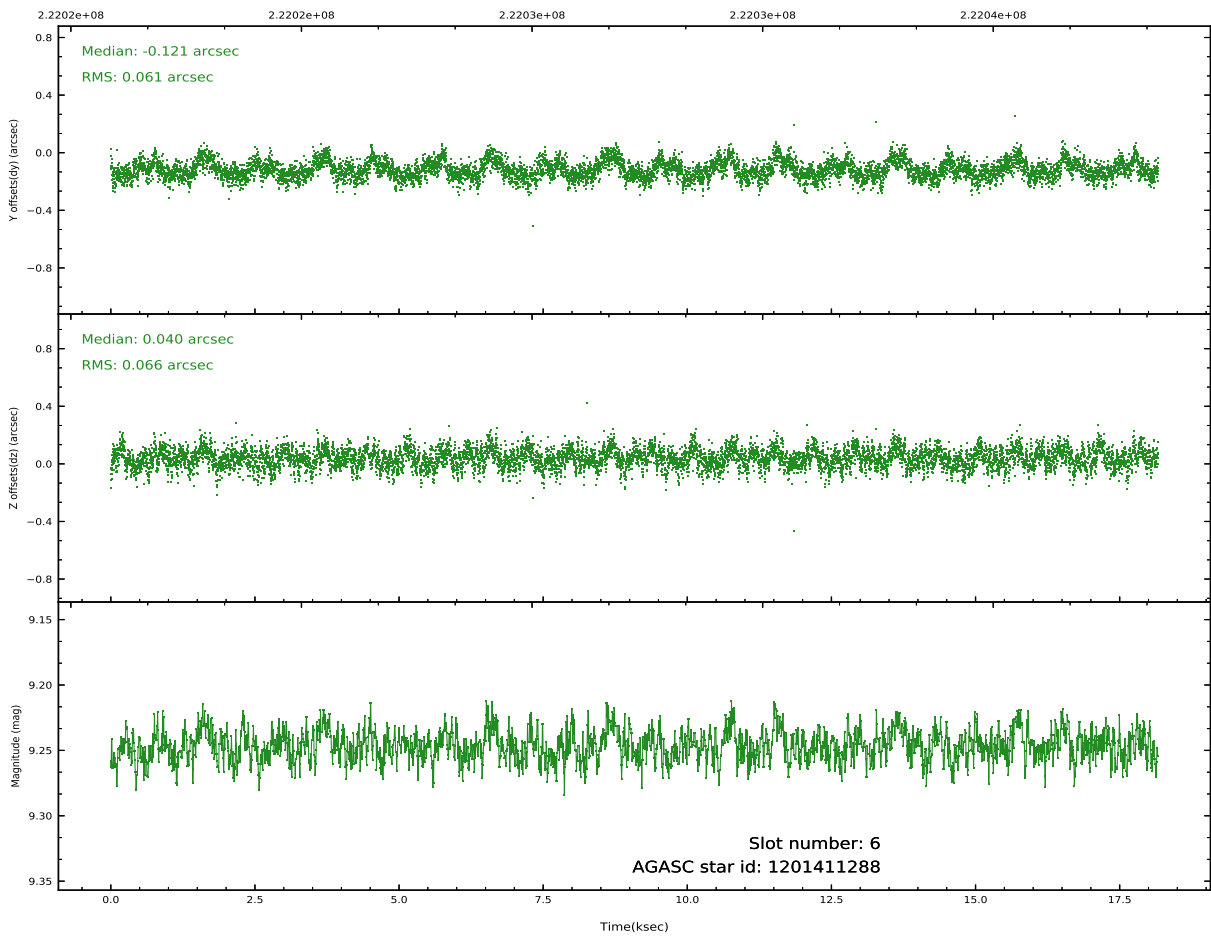
Time (s)



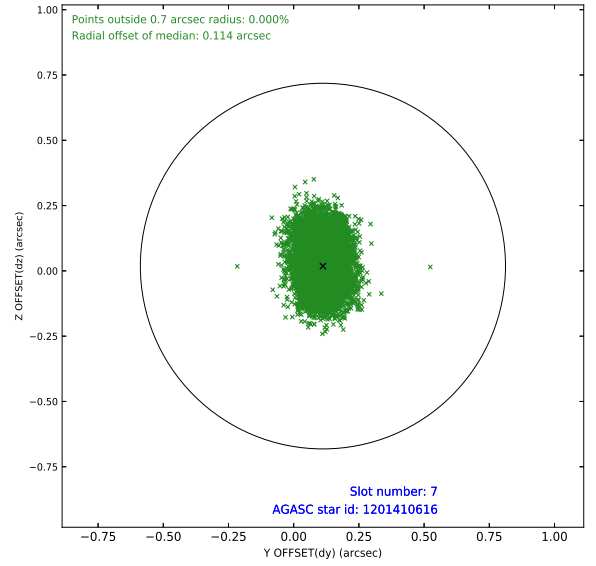
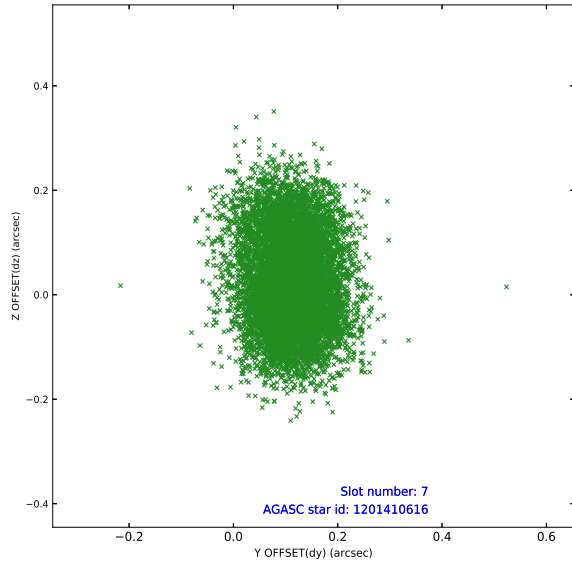
2.4.4 Slot 6



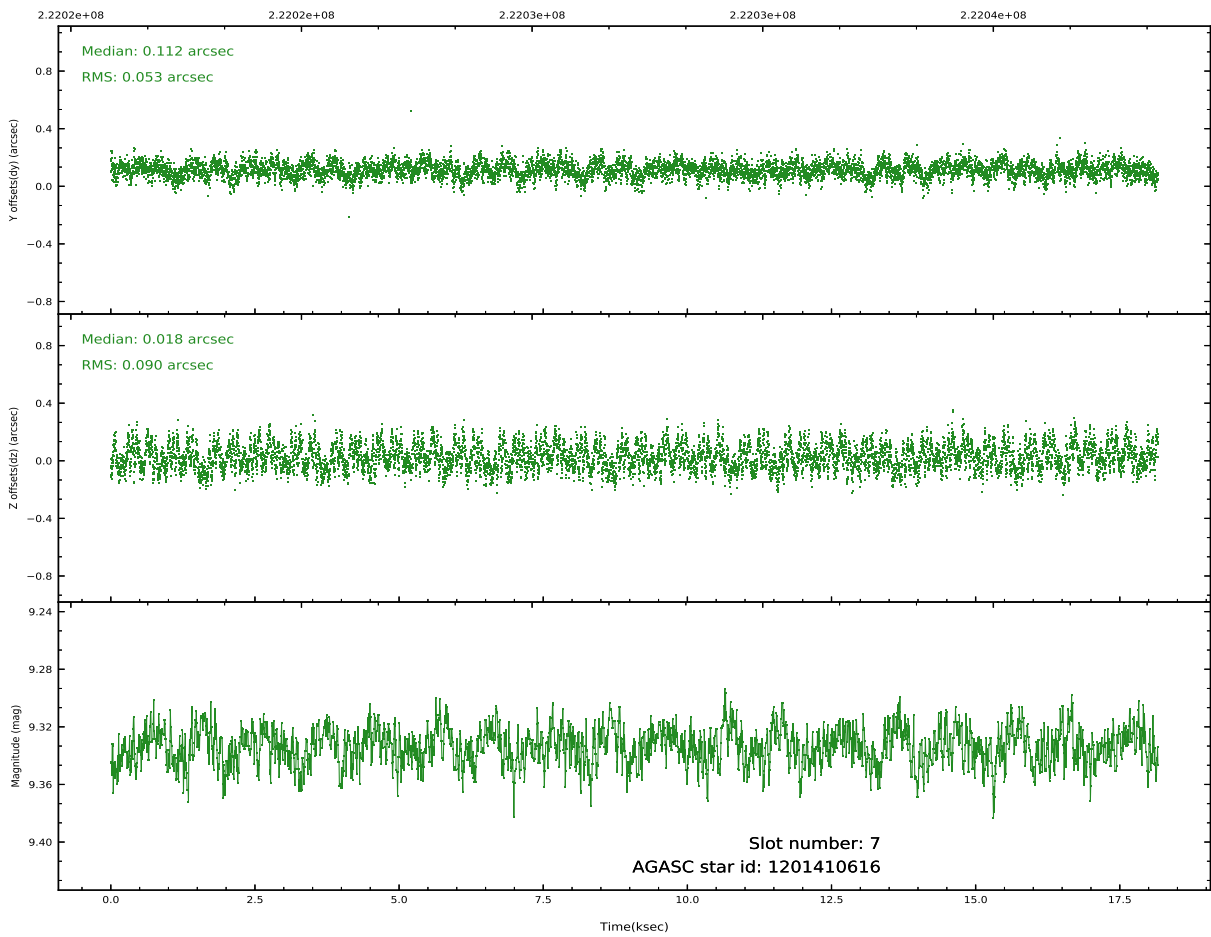
Time (s)



2.4.5 Slot 7

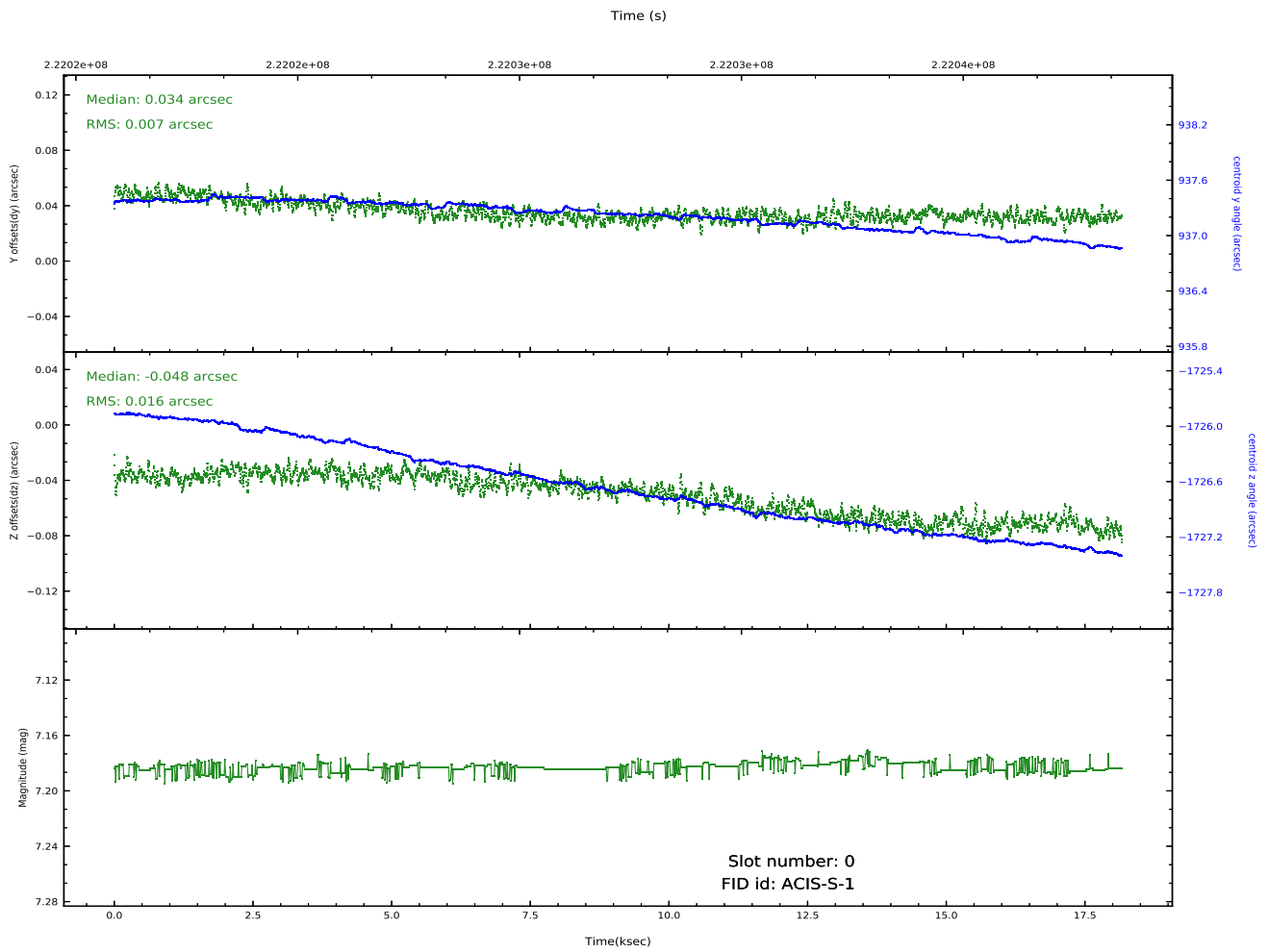
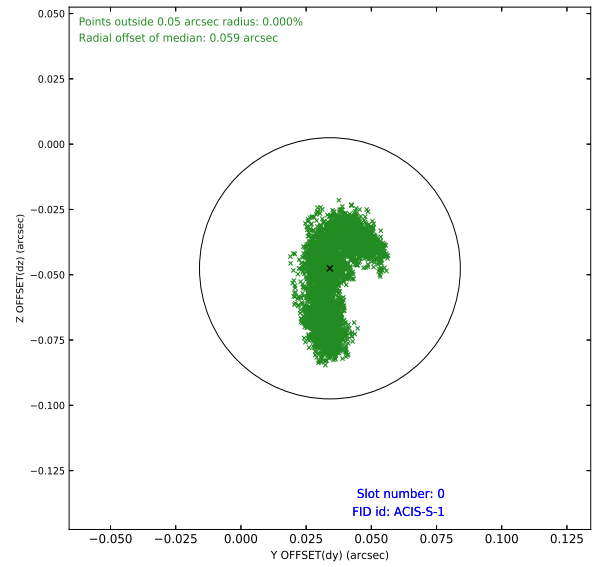
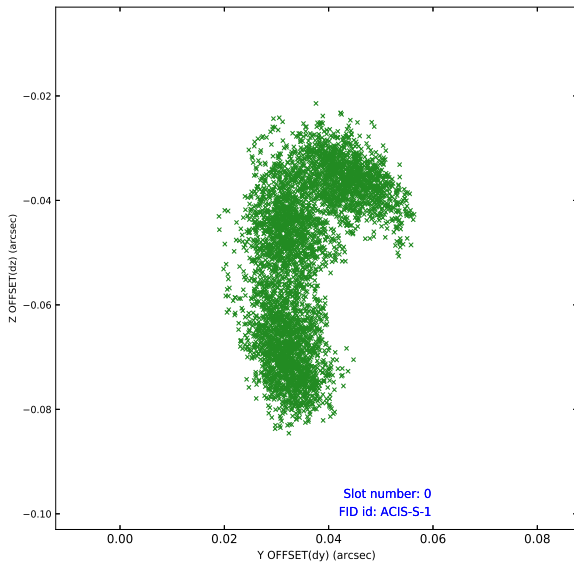


Time (s)

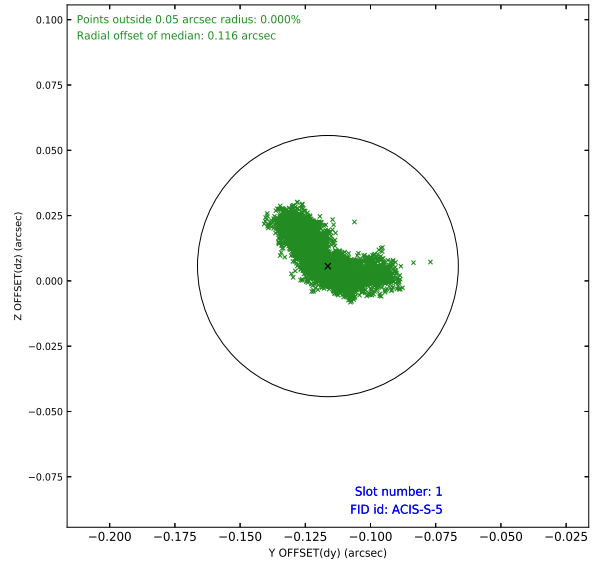
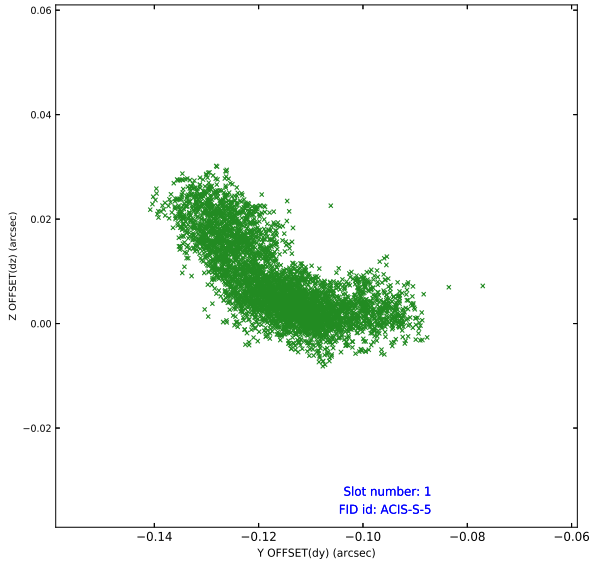


2.5 FID Slots

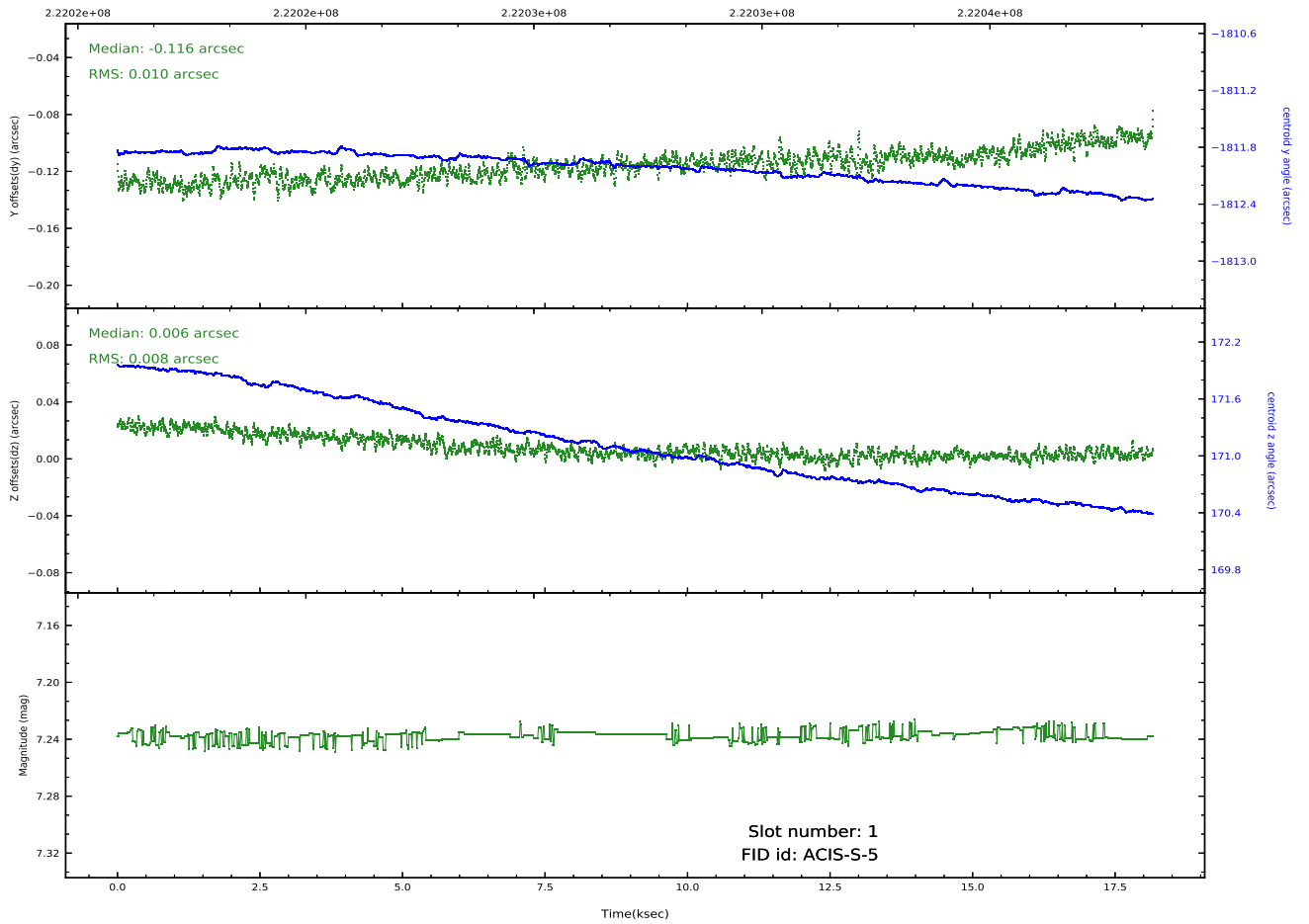
2.5.1 Slot 0



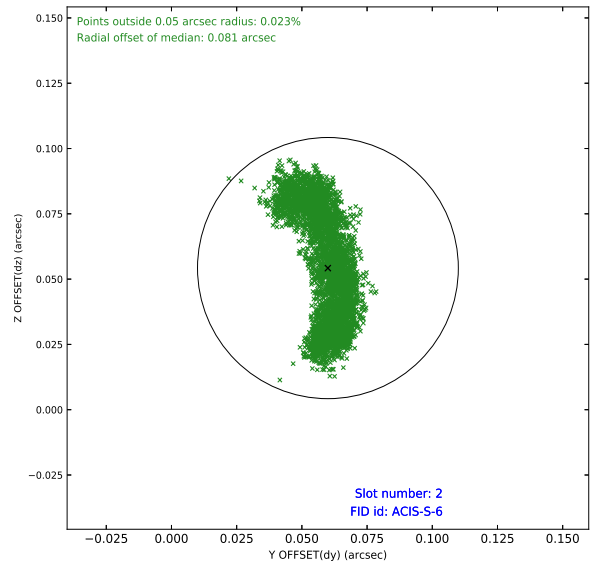
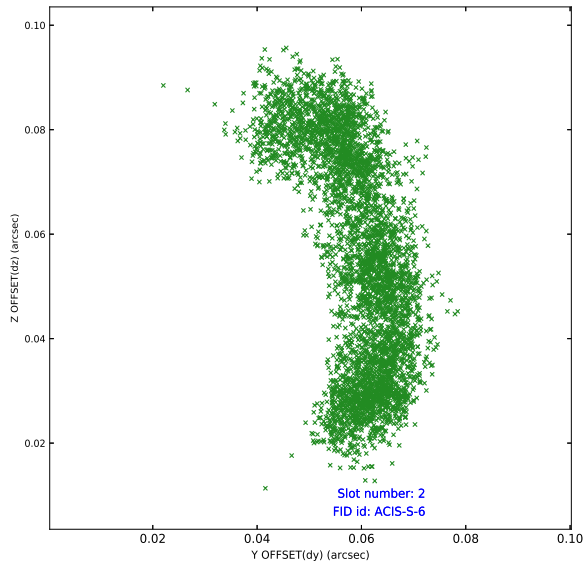
2.5.2 Slot 1



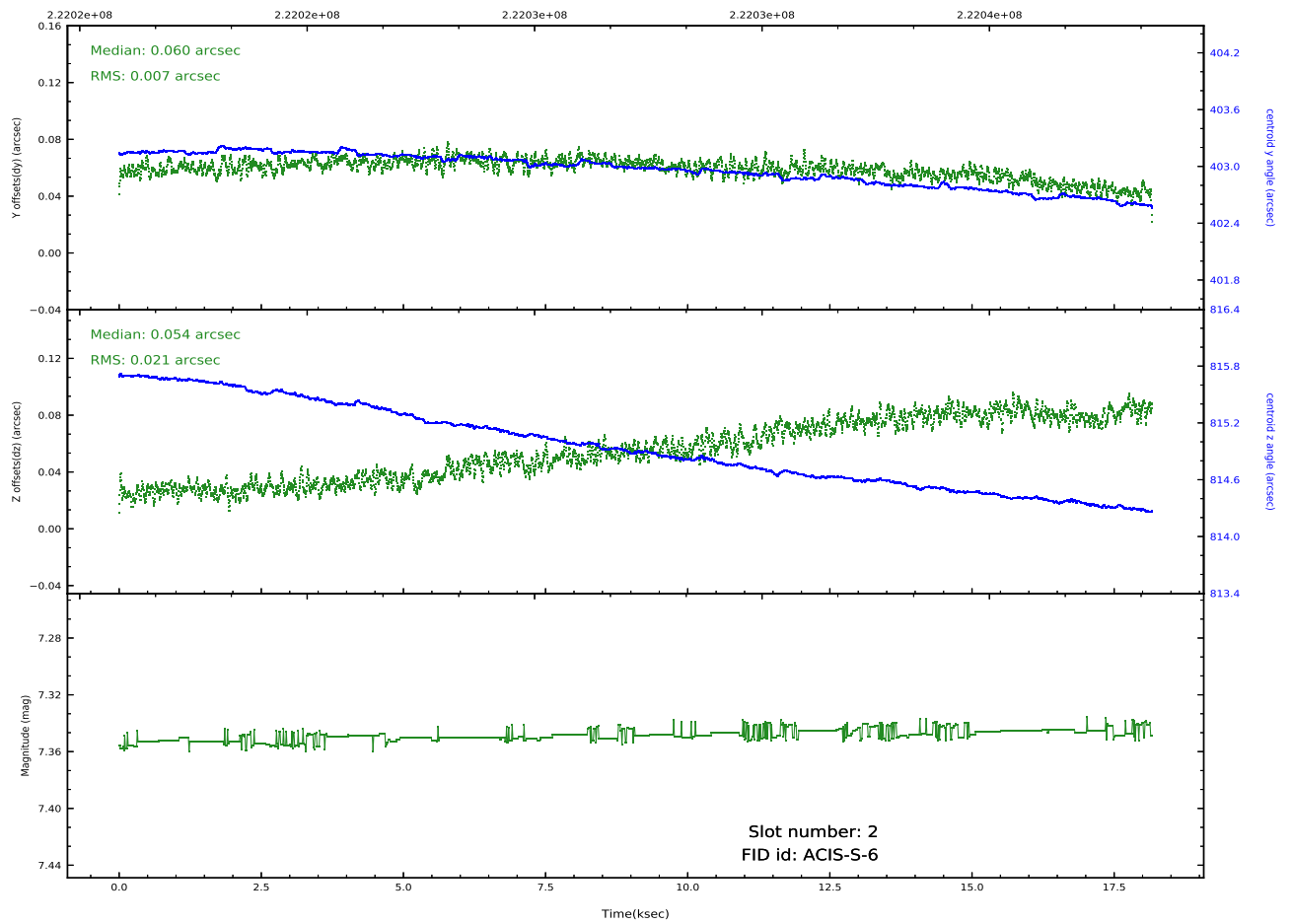
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.1664

A.2 Comments

Window constraint was met.