

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4642 - L2 Version 6
Chandra X-Ray Center

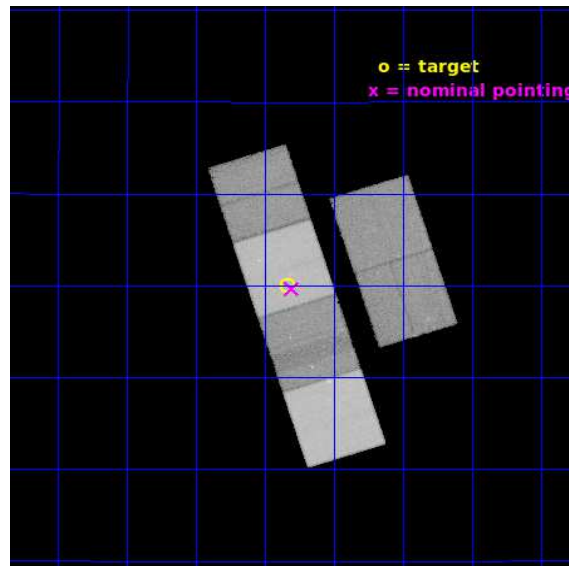
L2 Processing Date : Sep 26 2020

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1 Front

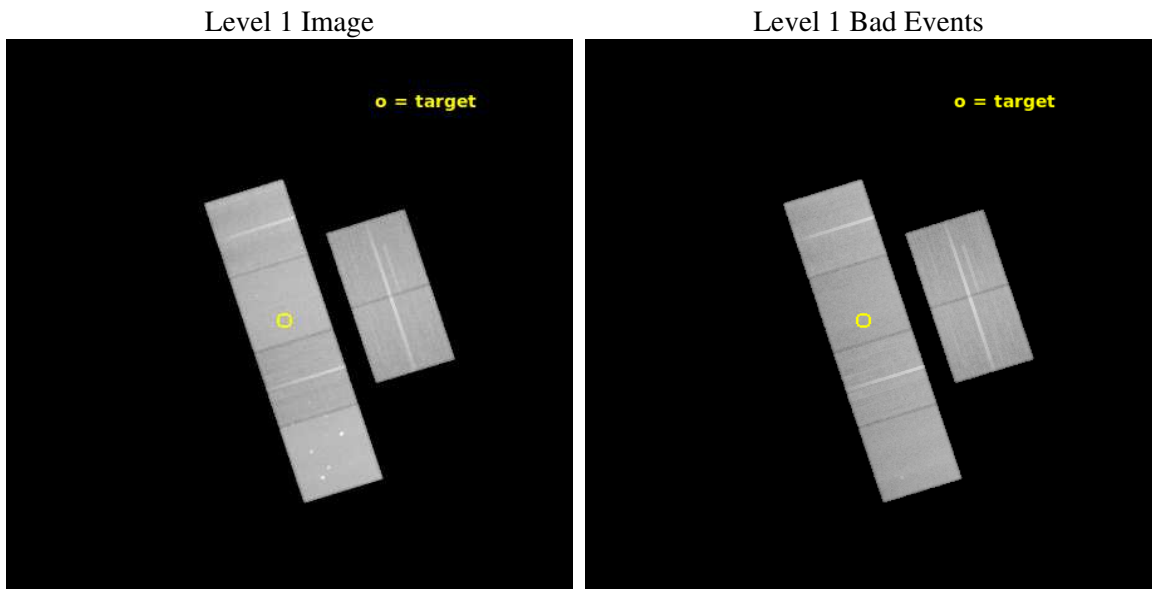
seq_num	500461	Sequence number
obs_id	4642	Observation id
title	The X-ray Emission from Old Supernovae	Proposal title
observer	Dr. Eric Schlegel	Principal investigator
object	SN1988Z	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	162.95875	Observer's specified target RA [deg]
dec_targ	16.000194	Observer's specified target Dec [deg]
ra_nom	162.95147320148	Nominal RA [deg]
dec_nom	15.994451681596	Nominal Dec [deg]
roll_nom	252.17946186483	Nominal Roll [deg]
revision	6	Processing version of data
ontime	47484.676922232	Sum of GTIs [s]
liveltime	46883.397351203	Livetime [s]
ontime2	47340.499776393	Sum of GTIs [s]
ontime3	47343.904737502	Sum of GTIs [s]
ontime5	47484.67694211	Sum of GTIs [s]
ontime6	47345.31519109	Sum of GTIs [s]
ontime7	47484.676922232	Sum of GTIs [s]
ontime8	47373.114619315	Sum of GTIs [s]
l2events	730549	Number of level 2 events



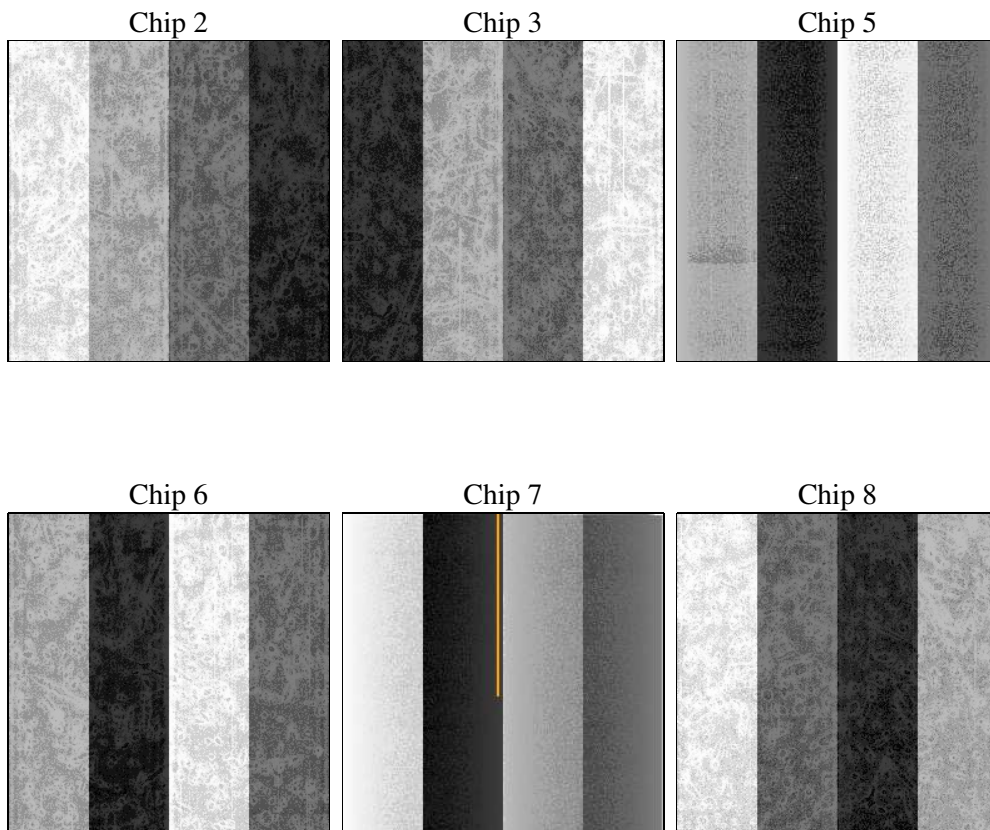
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	48459.373000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	47484.676922232	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	47340.499776393	Sum of GTIs [s]
date	2020-09-26T22:05:05	Date and time of file creation	ontime3	47343.904737502	Sum of GTIs [s]
revision	6	Processing version of data	ontime5	47484.67694211	Sum of GTIs [s]
			ontime6	47345.31519109	Sum of GTIs [s]
			ontime7	47484.676922232	Sum of GTIs [s]
			ontime8	47373.114619315	Sum of GTIs [s]
			l1events	2707787	Number of level 1 events

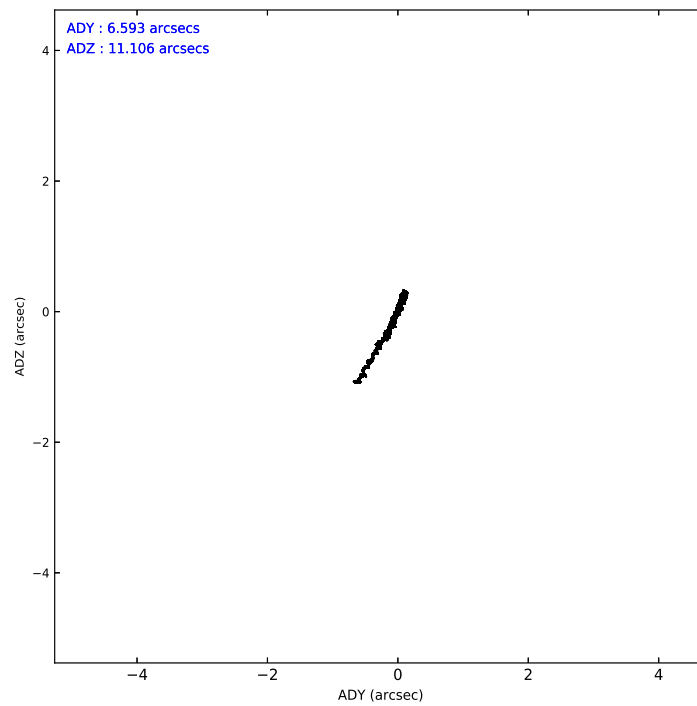
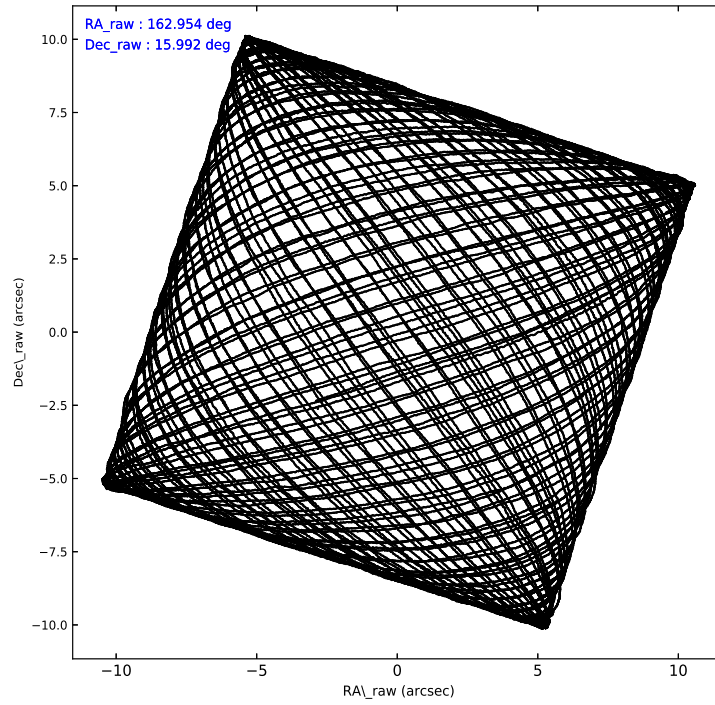
2.1.4 Events

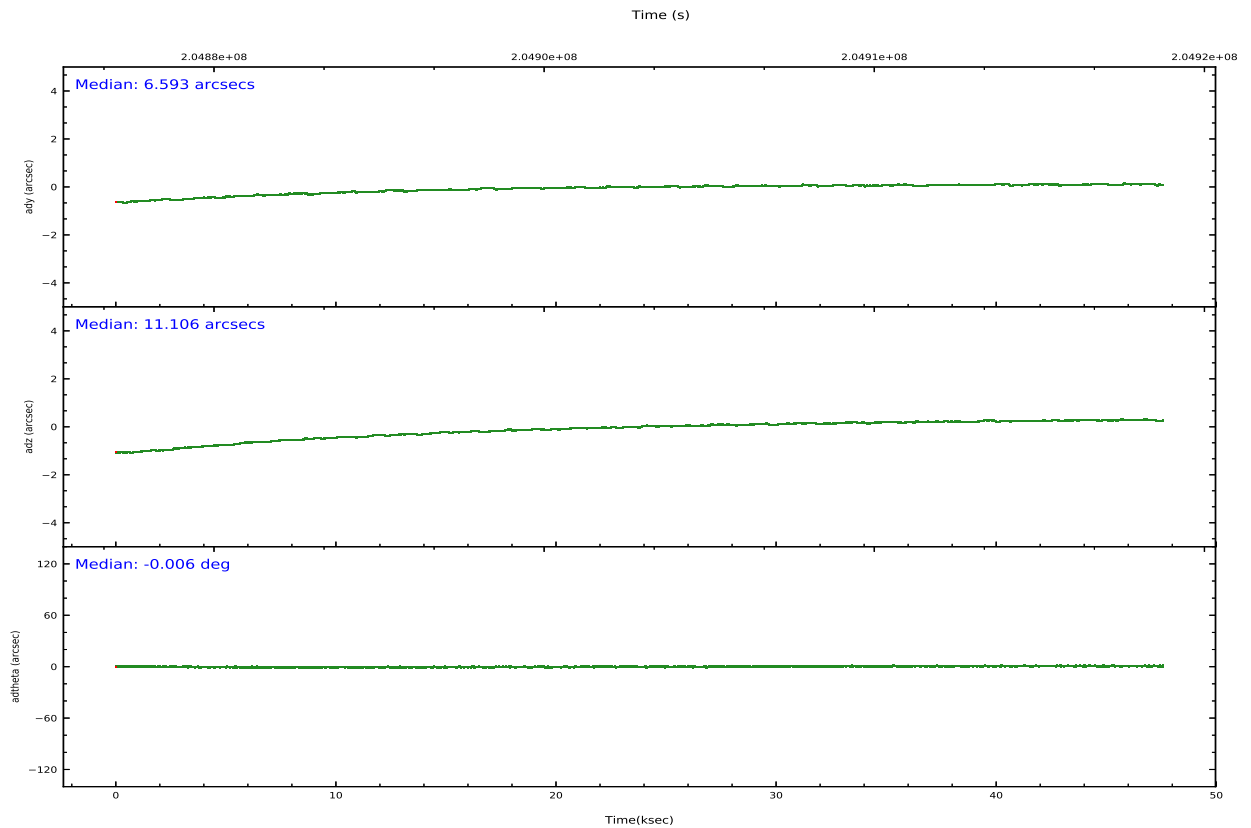
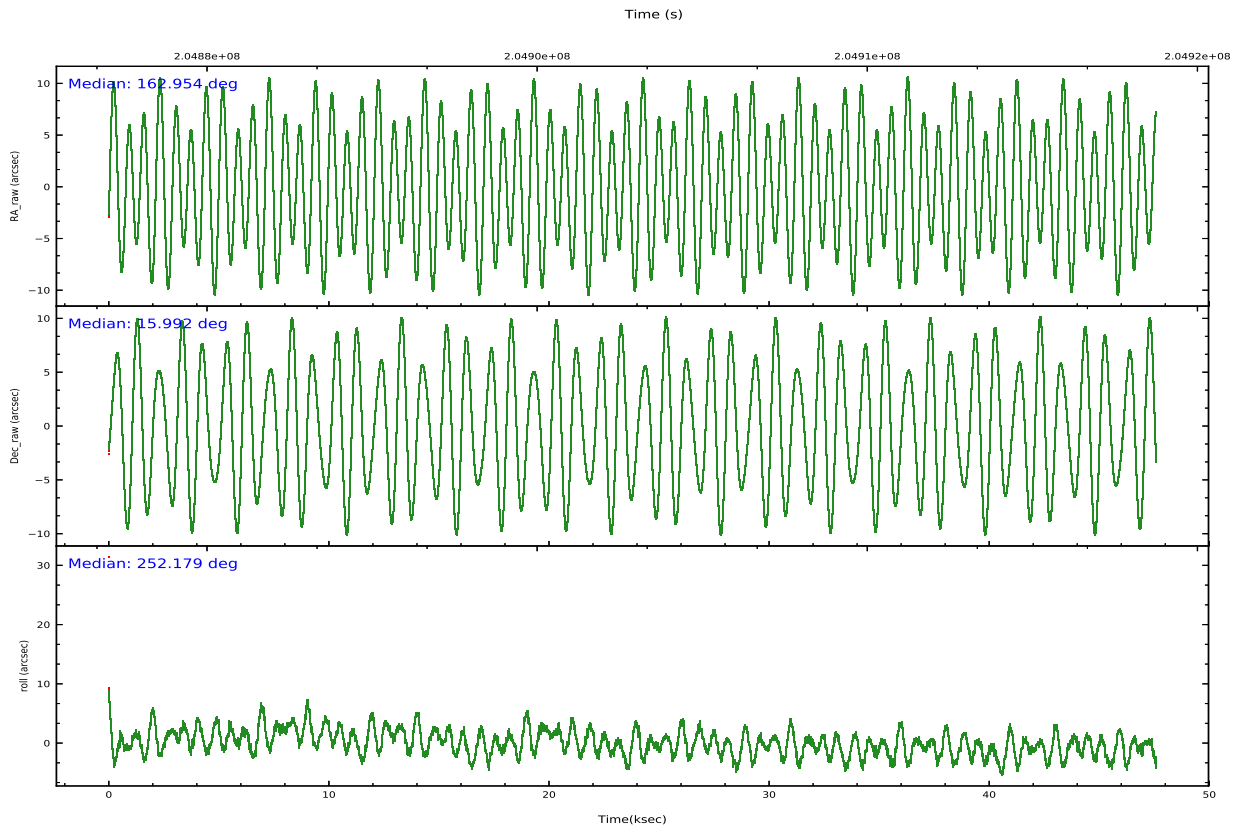
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	395584	371175	566899	384748	513491	475890	grade 0 events	40048	38528	35578	35692	22941	51779
rejected events	324871	301808	291080	315460	282769	350168		10%	10%	6%	9%	4%	10%
rejected %	82%	81%	51%	81%	55%	73%	grade 1 events	381	393	1016	273	449	412
								0%	0%	0%	0%	0%	0%
							grade 2 events	11640	11416	80818	12696	44554	24677
								2%	3%	14%	3%	8%	5%
							grade 3 events	5135	5263	10889	5145	19502	11490
								1%	1%	1%	1%	3%	2%
							grade 4 events	5132	5279	10468	5007	19573	11154
								1%	1%	1%	1%	3%	2%
							grade 5 events	13967	15388	38556	16267	45624	20815
								3%	4%	6%	4%	8%	4%
							grade 6 events	9541	9725	139813	11628	125978	27883
								2%	2%	24%	3%	24%	5%
							grade 7 events	309740	285183	249761	298040	234870	327680
								78%	76%	44%	77%	45%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	8	8
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	162.947685	162.95147320148	Subarray requested	NONE	NONE
[deg] Pointing Dec	16.018182	15.994451681596	Alternating exposures requested	N	N
[deg] Pointing Roll	252.026935	252.17946186483	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-0.6828225247311905	-0.6828225247311905			
[mm] SIM defocus	0.001444942264670179	0.001444942264670179			
[mm] SIM translation stage pos	-190.1425803651734	-190.1425803651734			
[mm] SIM translation stage offset	0.01005726120618533	0.01005726120618533			
[s] Observation start time (MET)	204875537.184000	204875537.184			
Observation start date	2004-06-29T05:51:13	2004-06-29T05:52:17			
[s] Observation end time (MET)	204923125.000000	204923125			
Observation end date	2004-06-29T19:05:25	2004-06-29T19:05:24			
Read mode	TIMED	TIMED			

2.3 Aspect



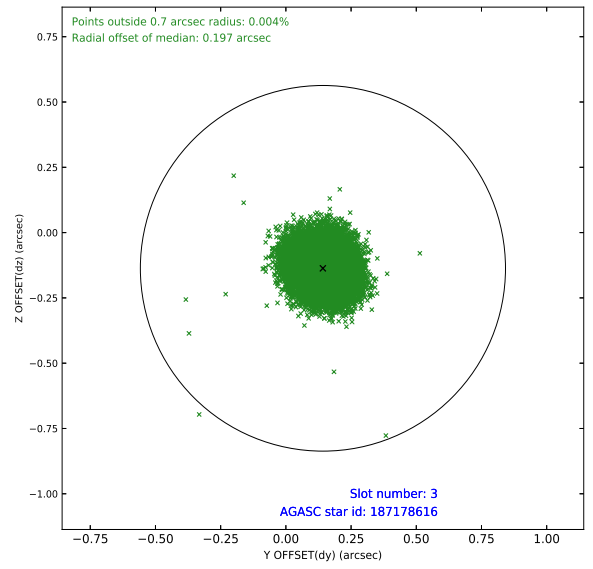
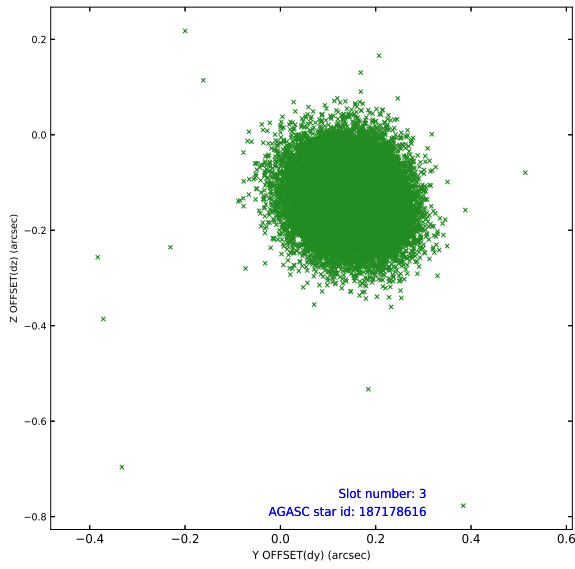


Slot Statistics

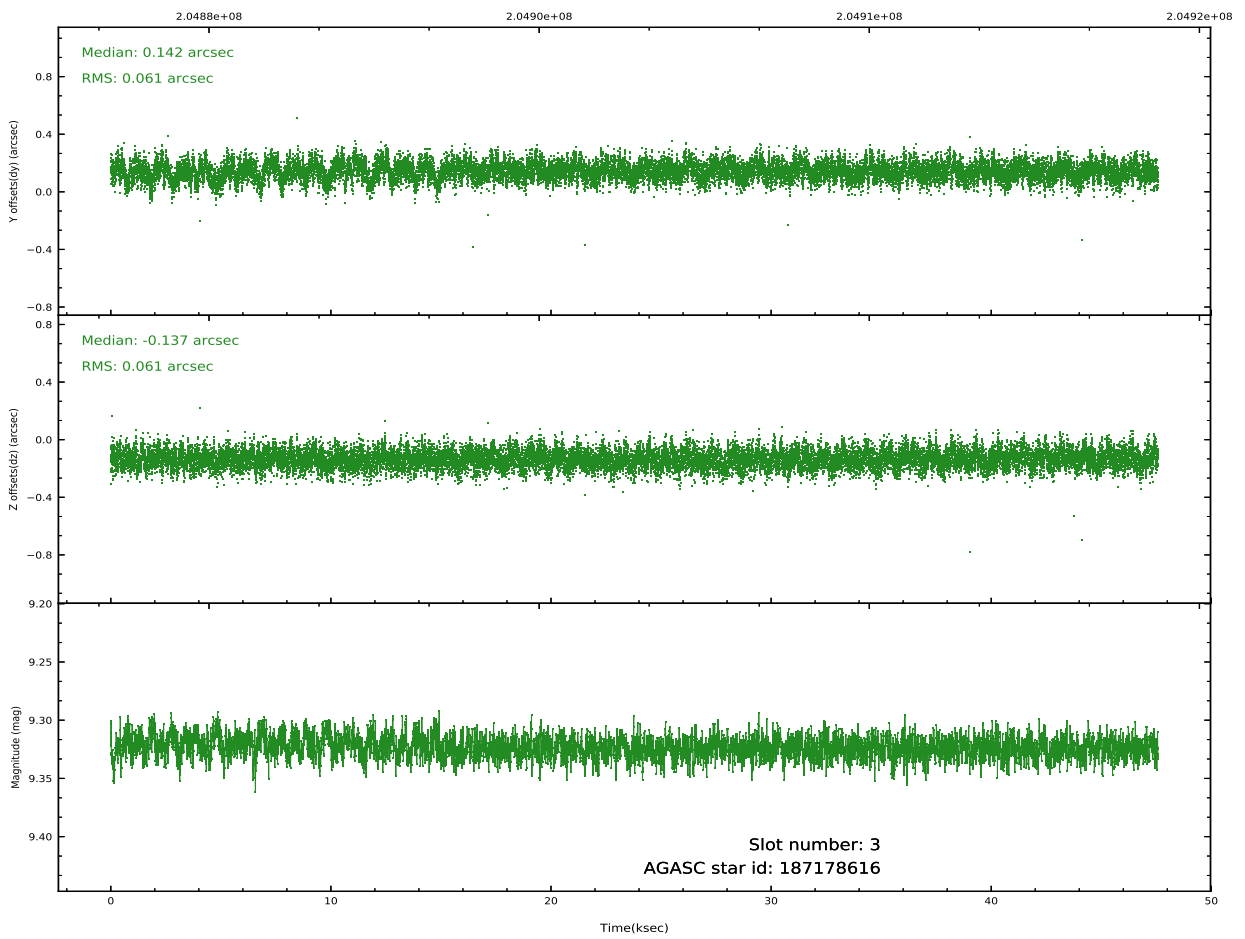
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	11602	1.000	-0.081	-0.048	0.012	0.020	0.000000	0.000000	-759.28	-1732
1	FID		ACIS-S-4	7.20	11600	1.000	0.126	0.052	0.016	0.028	0.000000	0.000000	2154.16	176
2	FID		ACIS-S-5	7.23	11599	1.000	-0.076	0.005	0.009	0.014	0.000000	0.000000	-1812.18	169
3	GUIDE	used	187178616	9.32	23184	1.000	0.142	-0.137	0.091	0.147	162.342515	15.877179	1127.39	-1837
4	GUIDE	used	187303528	9.29	23188	1.000	-0.162	0.167	0.103	0.168	163.727744	16.389121	-2106.58	2149
5	GUIDE	used	187303568	8.54	23200	1.000	0.118	-0.152	0.077	0.121	163.012246	16.095574	-333.69	126
6	GUIDE	used	187306752	9.28	23190	1.000	0.066	0.178	0.095	0.150	163.240541	15.817007	375.31	1188
7	GUIDE	used	187310592	9.45	23191	1.000	-0.163	-0.057	0.089	0.146	162.727803	16.639080	-1892.07	-1411

2.4 Star Slots

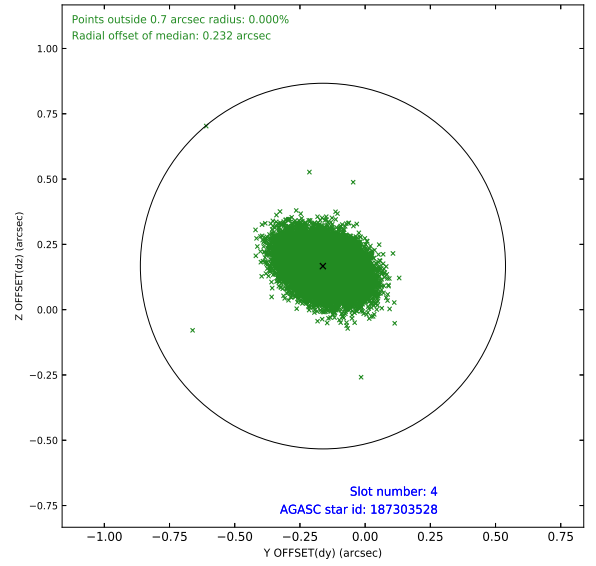
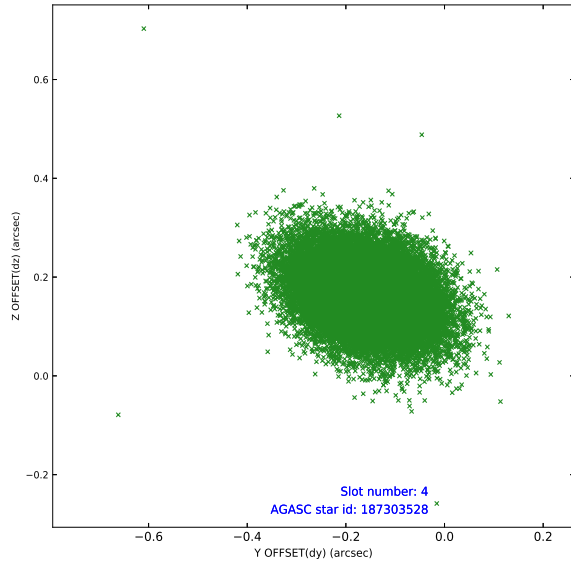
2.4.1 Slot 3



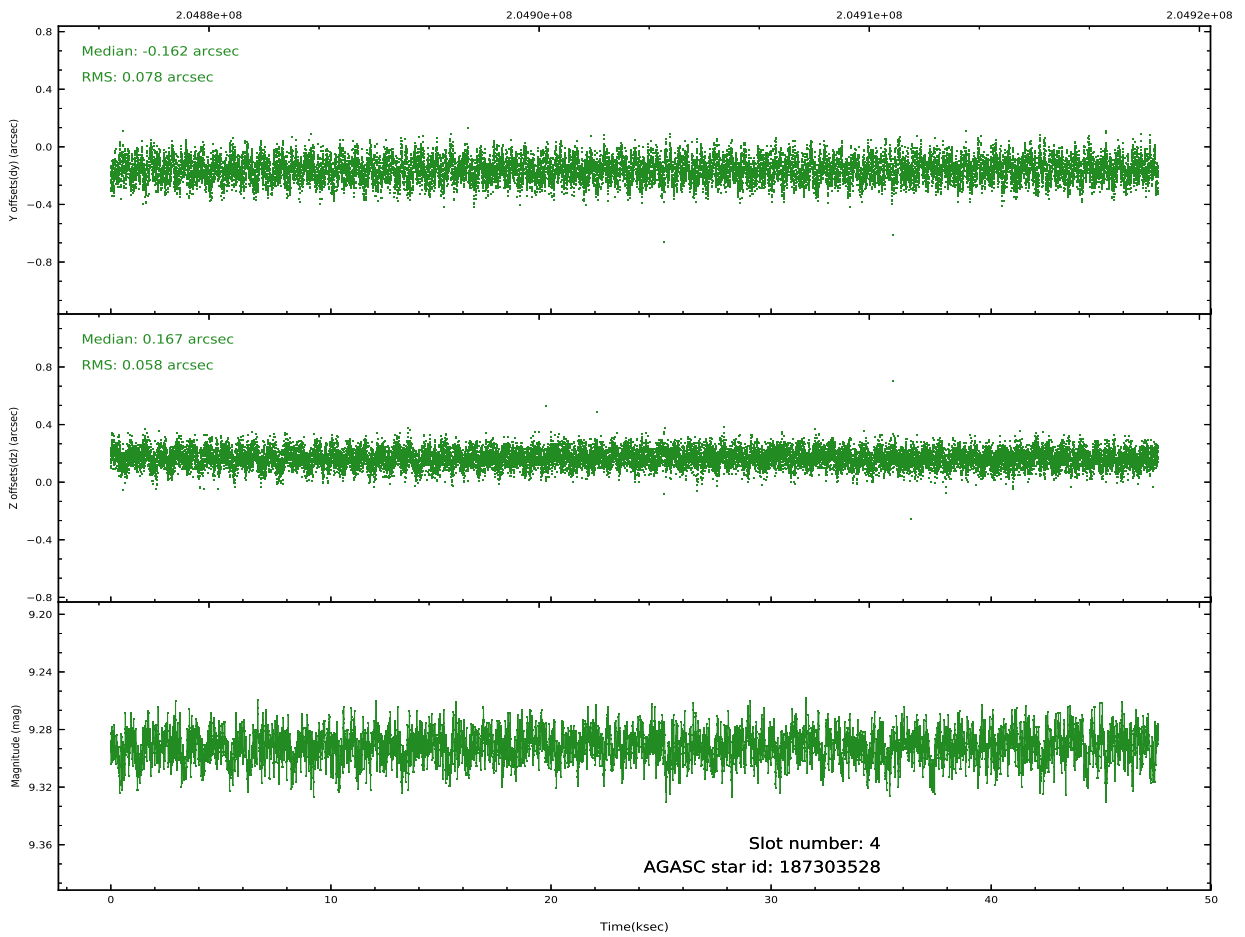
Time (s)



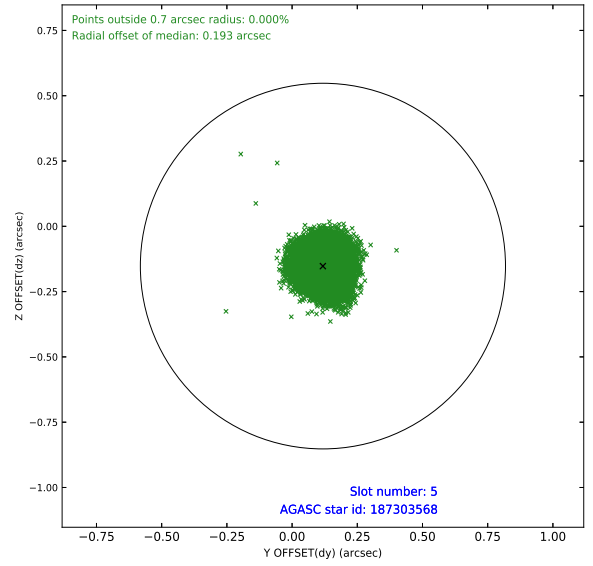
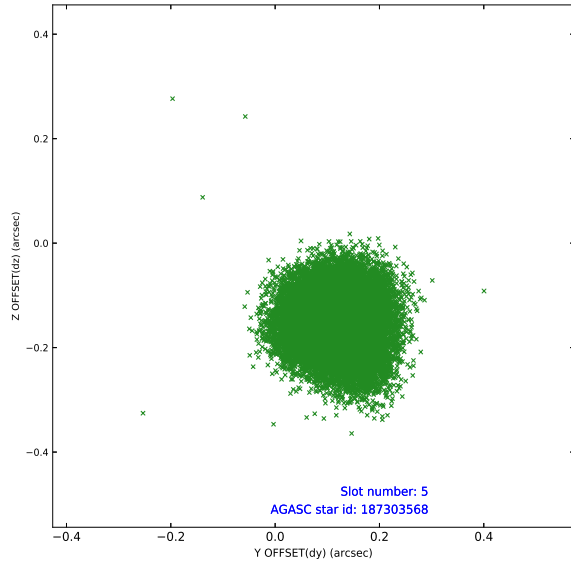
2.4.2 Slot 4



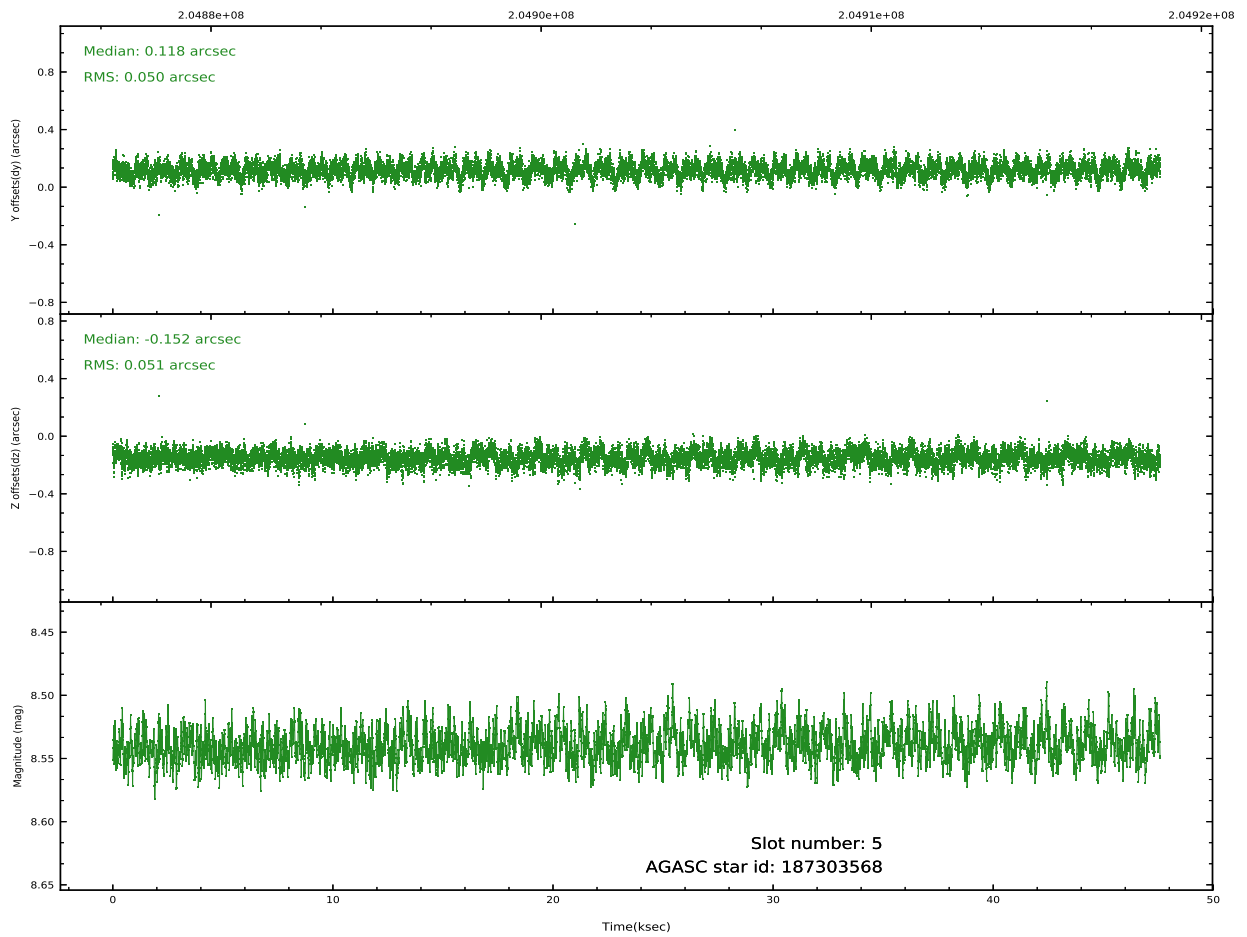
Time (s)



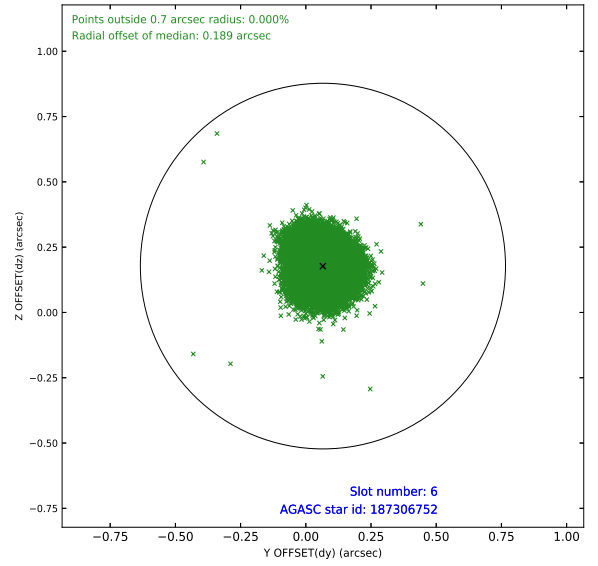
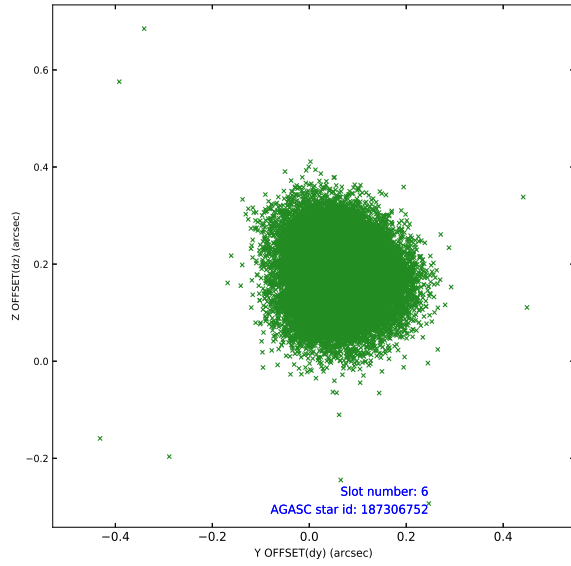
2.4.3 Slot 5



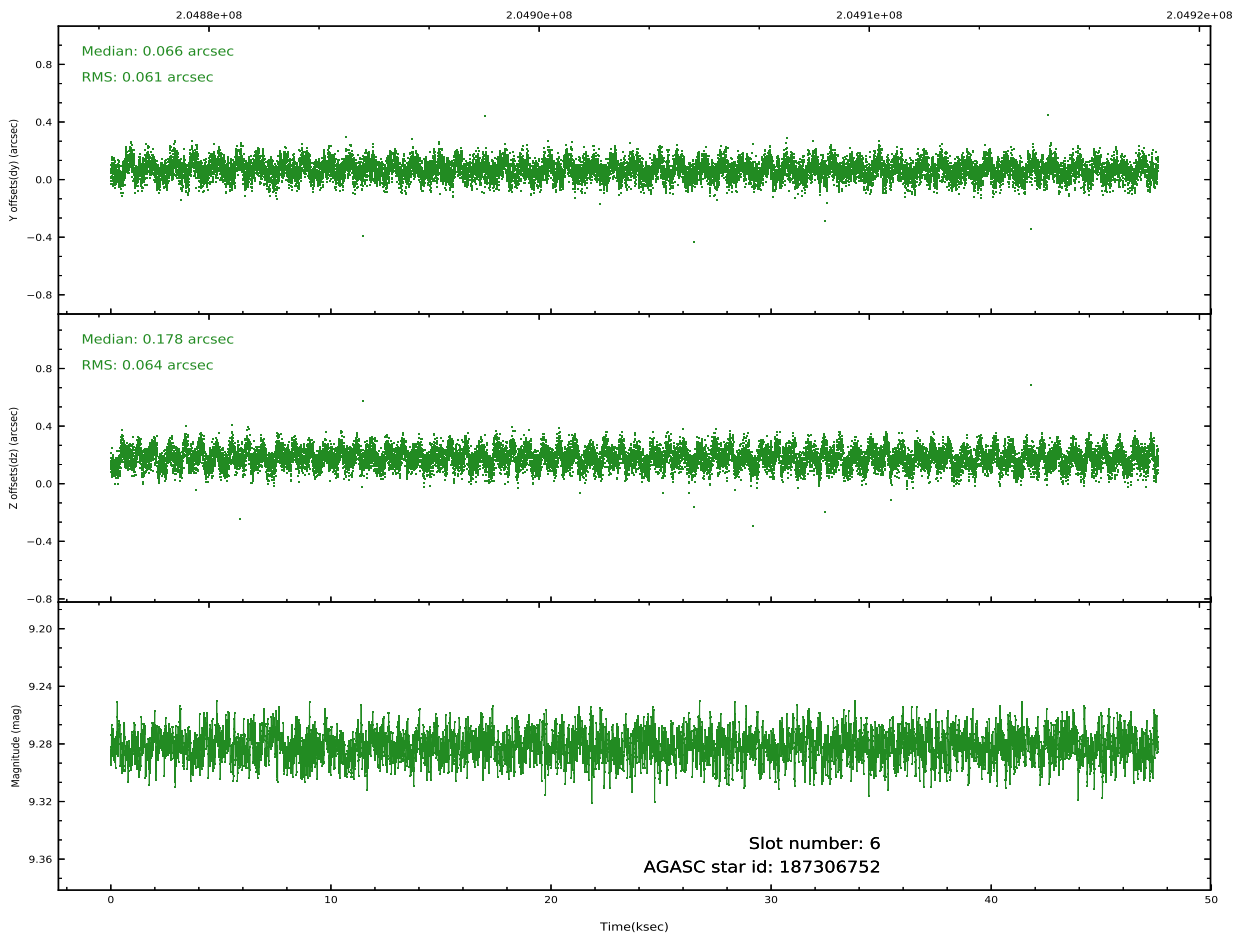
Time (s)



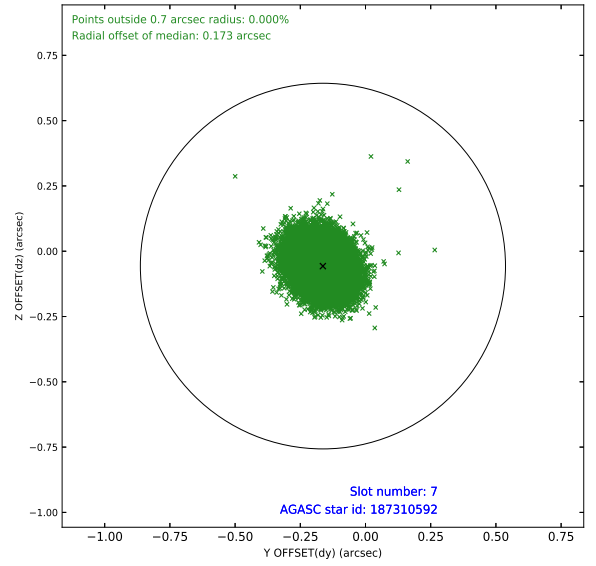
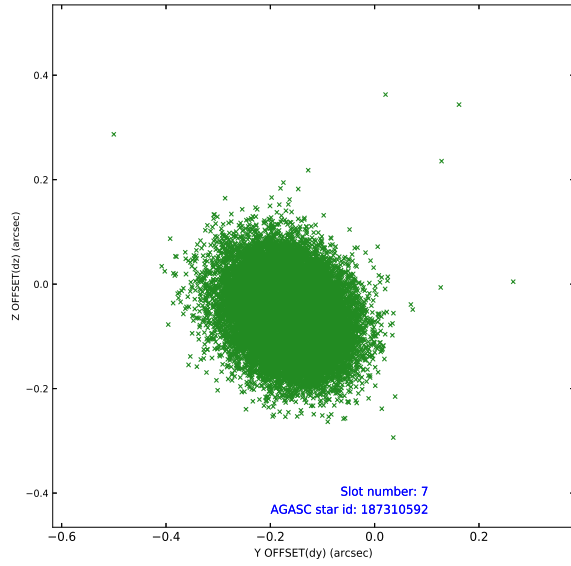
2.4.4 Slot 6



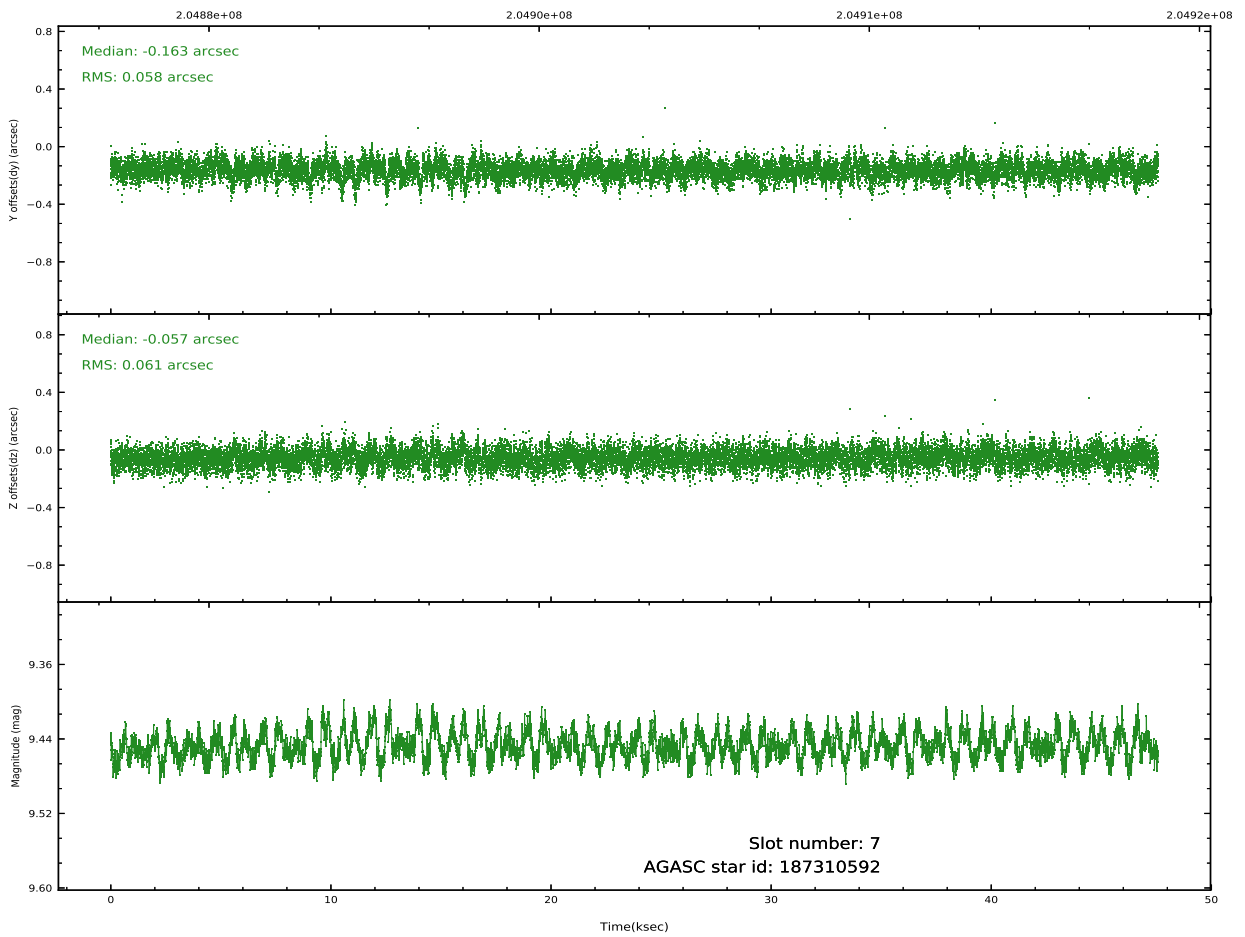
Time (s)



2.4.5 Slot 7

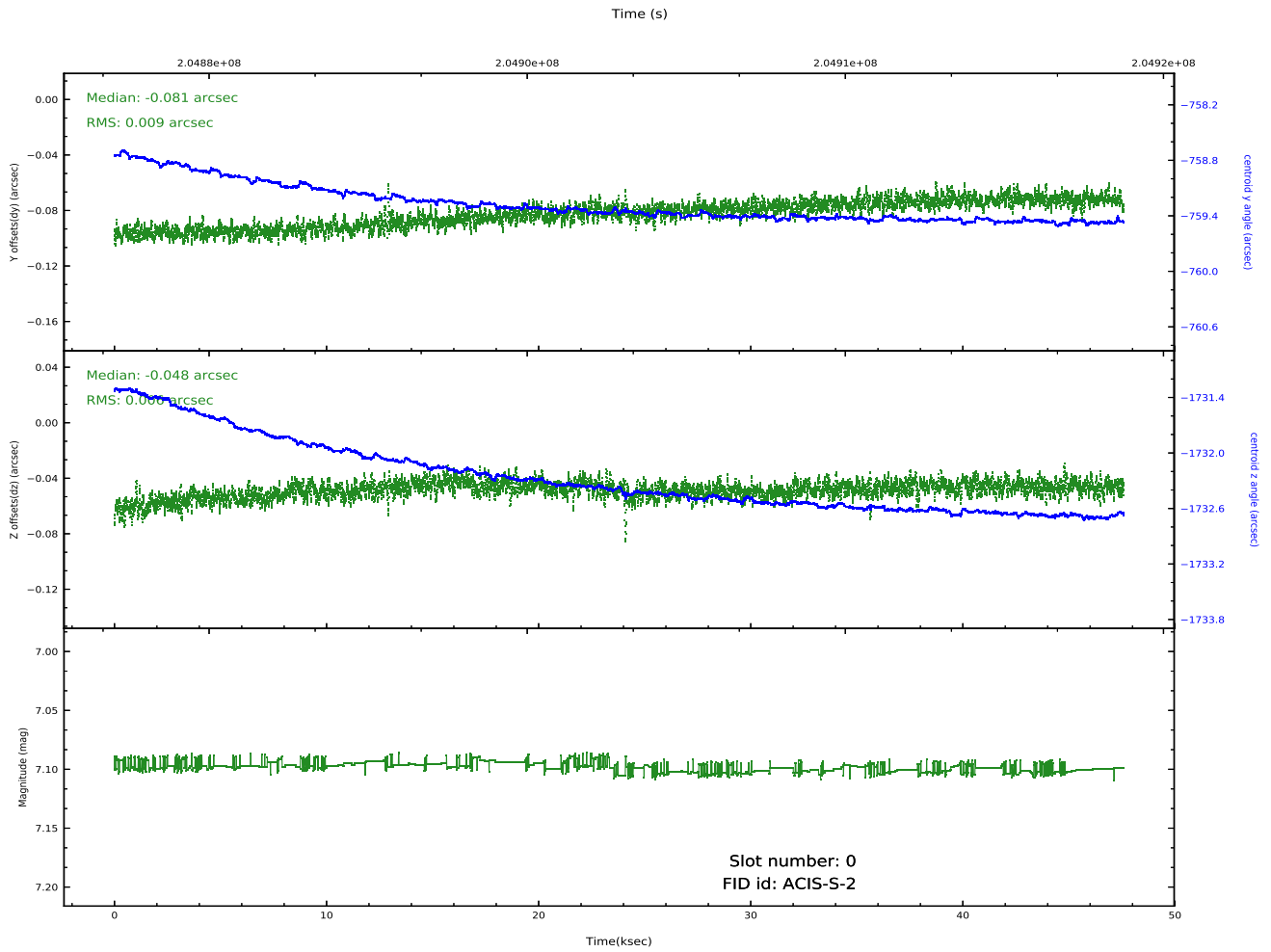
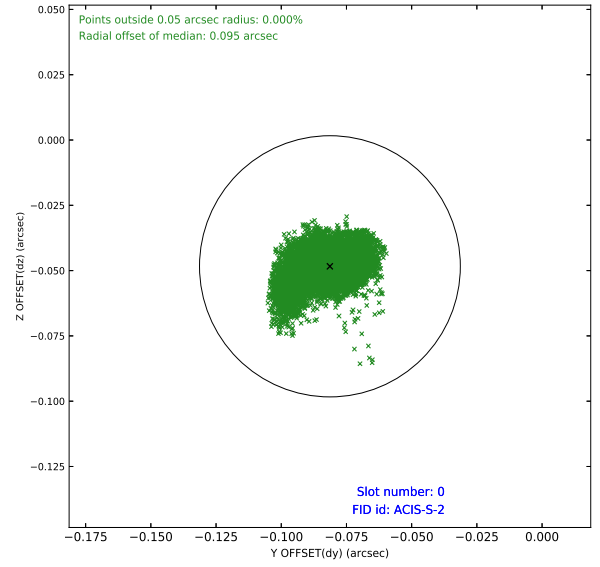
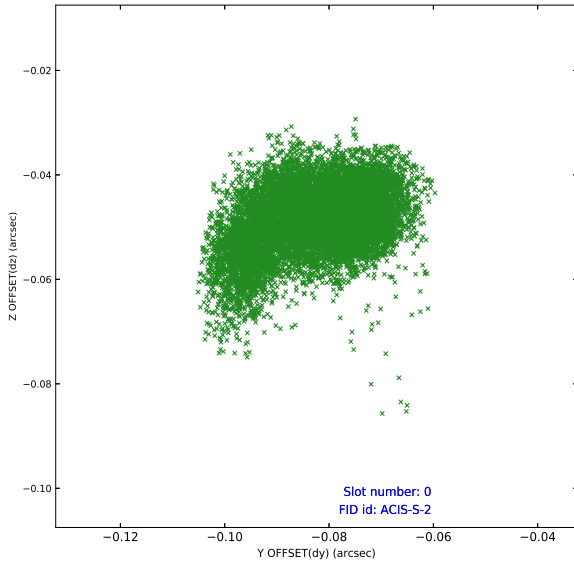


Time (s)

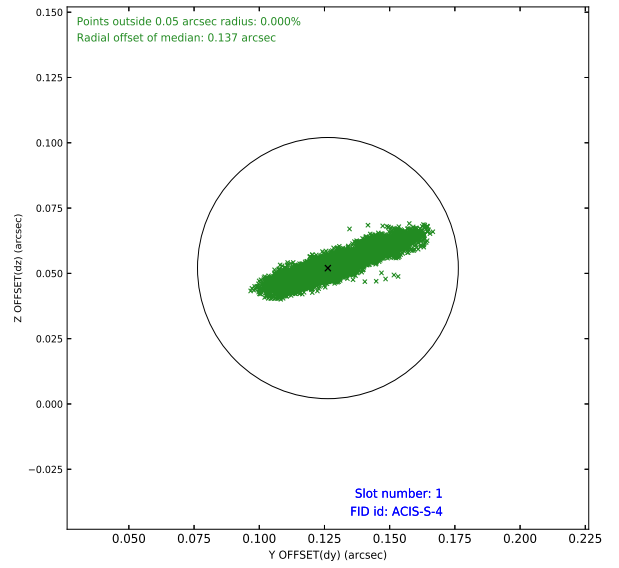
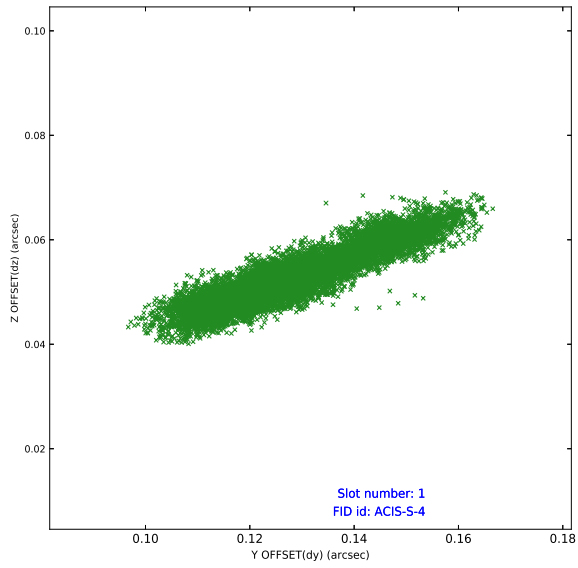


2.5 FID Slots

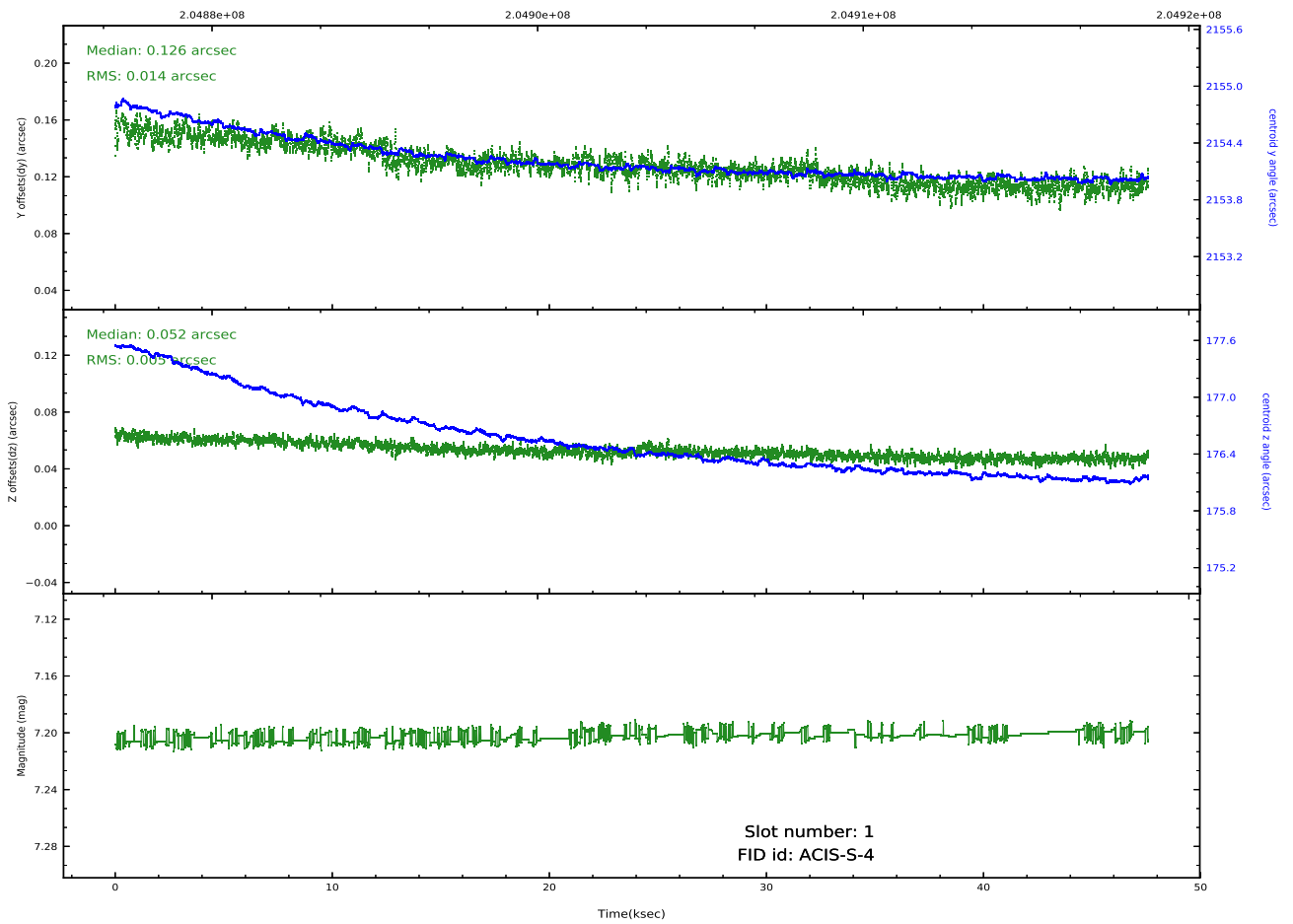
2.5.1 Slot 0



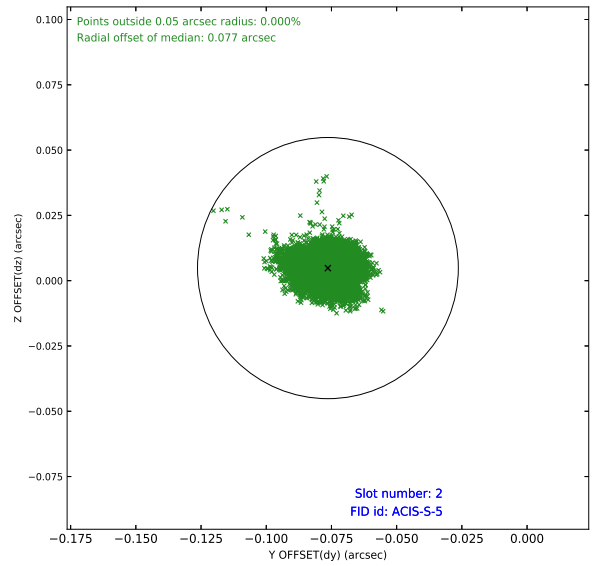
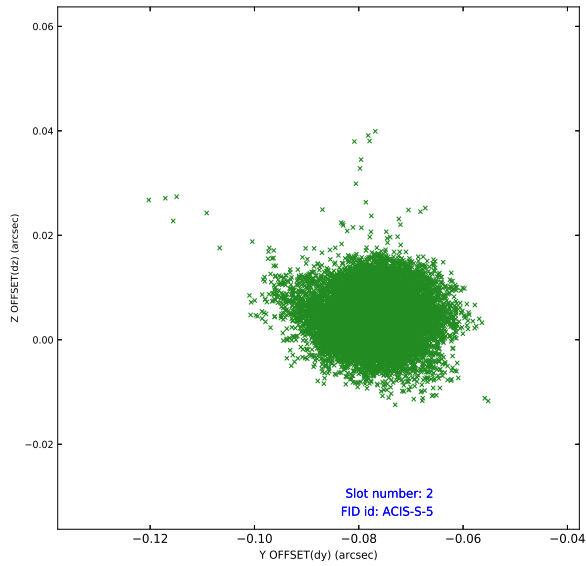
2.5.2 Slot 1



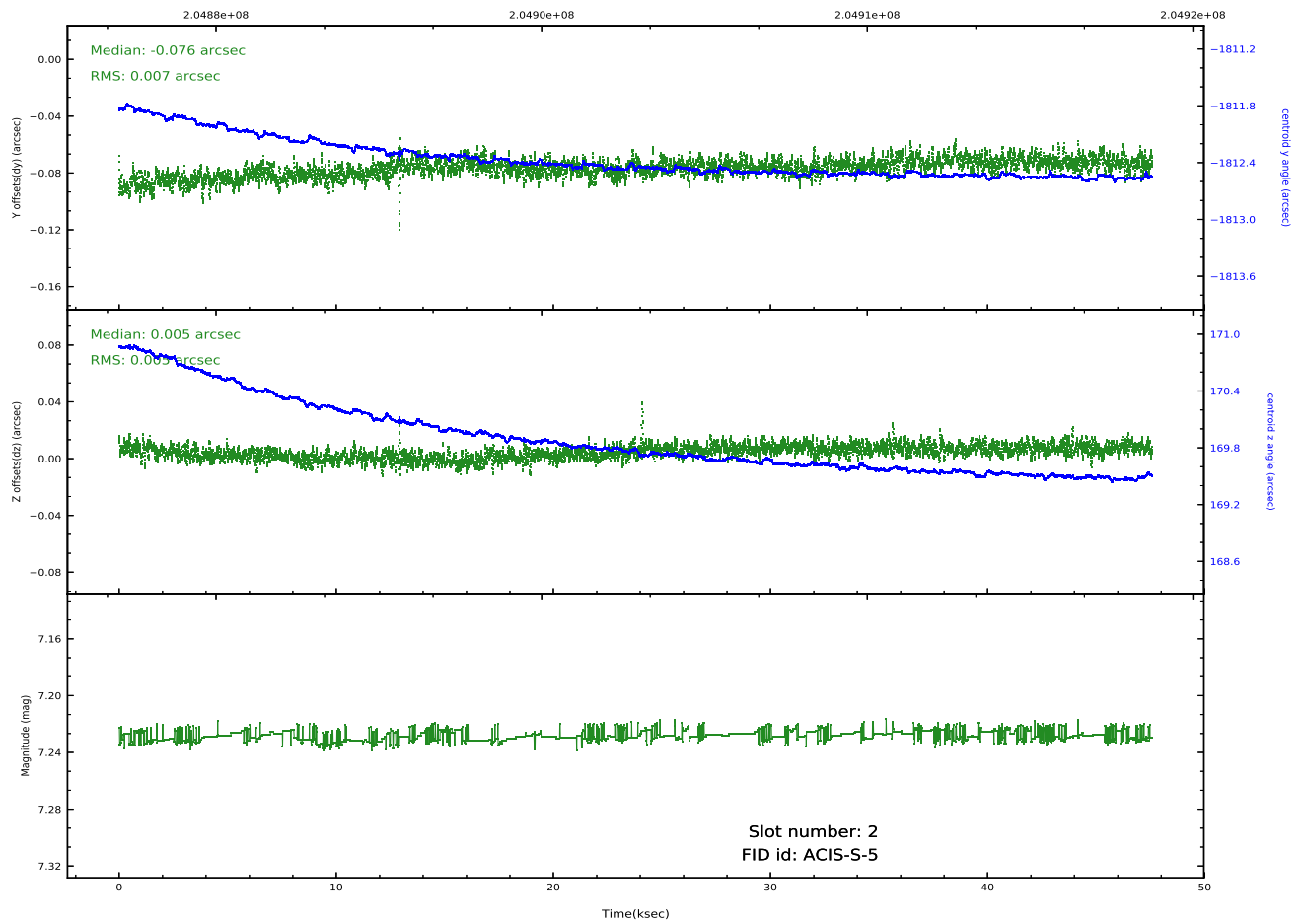
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.833

A.2 Comments

This observation was interrupted by safing of the science instruments due to an early entry into the rad zone. The observation was interrupted at 2004:181:19:05.

===

Charge time for this observation remains at previous value of 47.833 ksec, although with the current processing the charge time would have been 47.484 ksec.