

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4487 - L2 Version 4
Chandra X-Ray Center

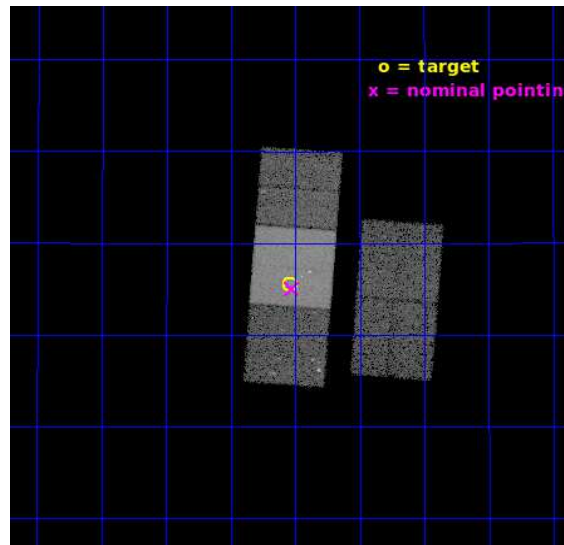
L2 Processing Date : Sep 21 2020

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1 Front

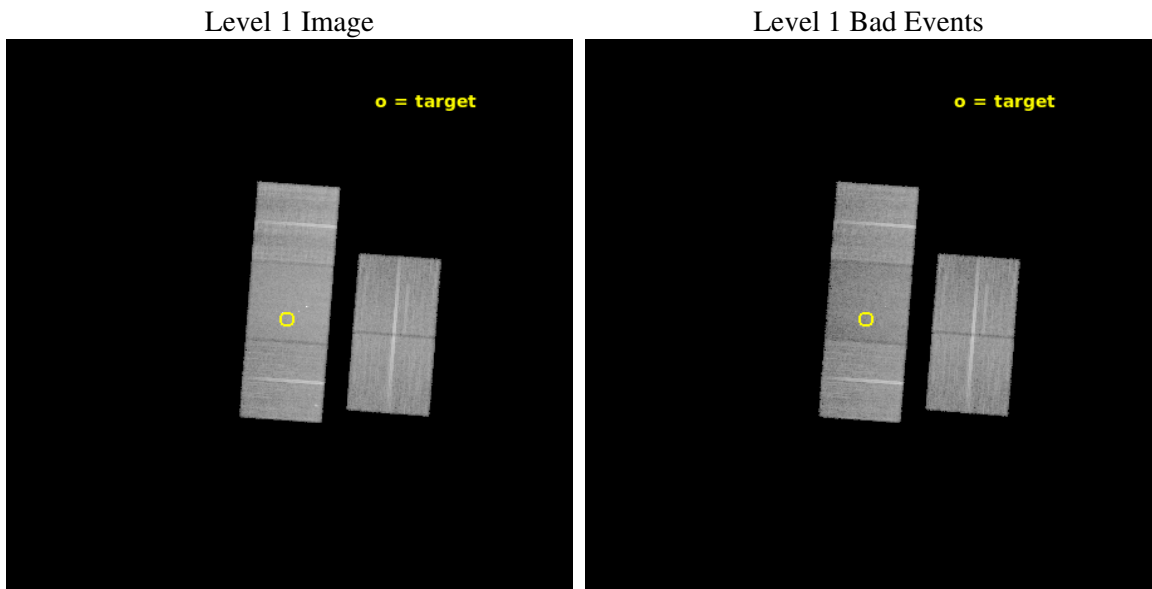
seq_num	200256	Sequence number
obs_id	4487	Observation id
title	SHOCKS AND X-RAYS IN PROTOSTELLAR JETS	Proposal title
observer	Prof. Manuel Guedel	Principal investigator
object	DG Tau AB	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	66.760833	Observer's specified target RA [deg]
dec_targ	26.091917	Observer's specified target Dec [deg]
ra_nom	66.756559951333	Nominal RA [deg]
dec_nom	26.084089278505	Nominal Dec [deg]
roll_nom	274.30325109932	Nominal Roll [deg]
revision	4	Processing version of data
ontime	30109.132451862	Sum of GTIs [s]
livetime	29715.734470358	Livetime [s]
ontime2	30105.827281684	Sum of GTIs [s]
ontime3	30109.050371855	Sum of GTIs [s]
ontime6	30105.950431615	Sum of GTIs [s]
ontime7	30109.132451862	Sum of GTIs [s]
ontime8	30109.009331852	Sum of GTIs [s]
l2events	125378	Number of level 2 events



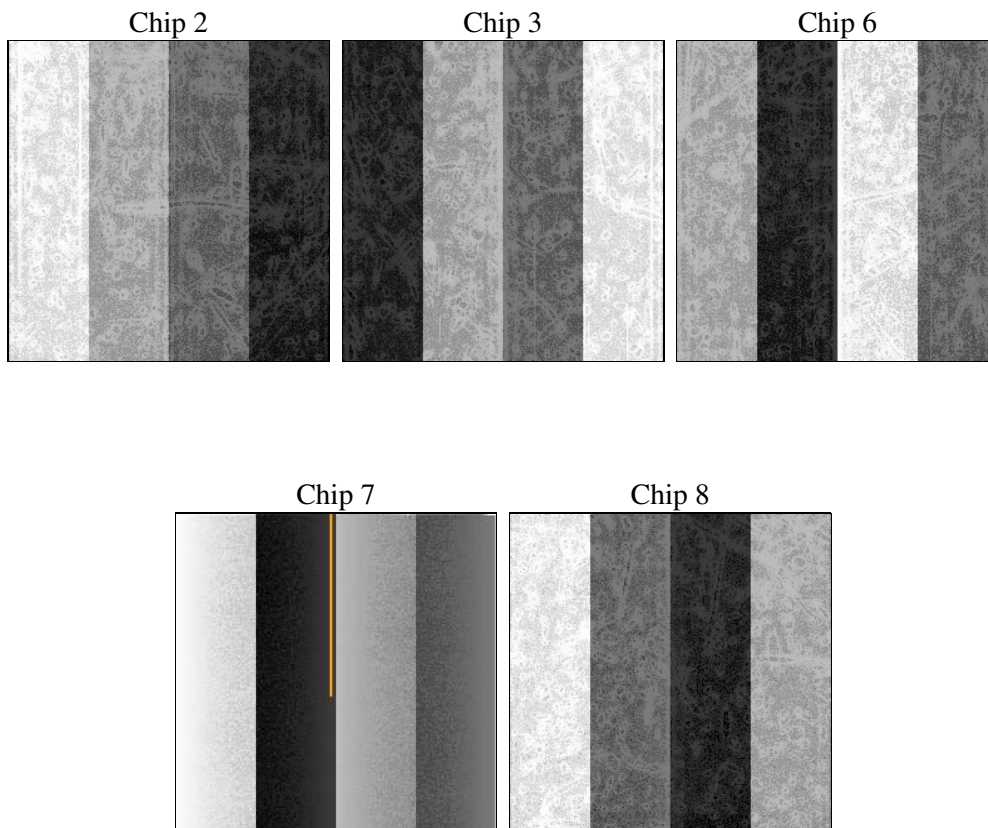
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	30109.132451862	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	30105.827281684	Sum of GTIs [s]
date	2020-09-22T02:21:12	Date and time of file creation	ontime3	30109.050371855	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	30105.950431615	Sum of GTIs [s]
			ontime7	30109.132451862	Sum of GTIs [s]
			ontime8	30109.009331852	Sum of GTIs [s]
			l1events	784782	Number of level 1 events

2.1.4 Events

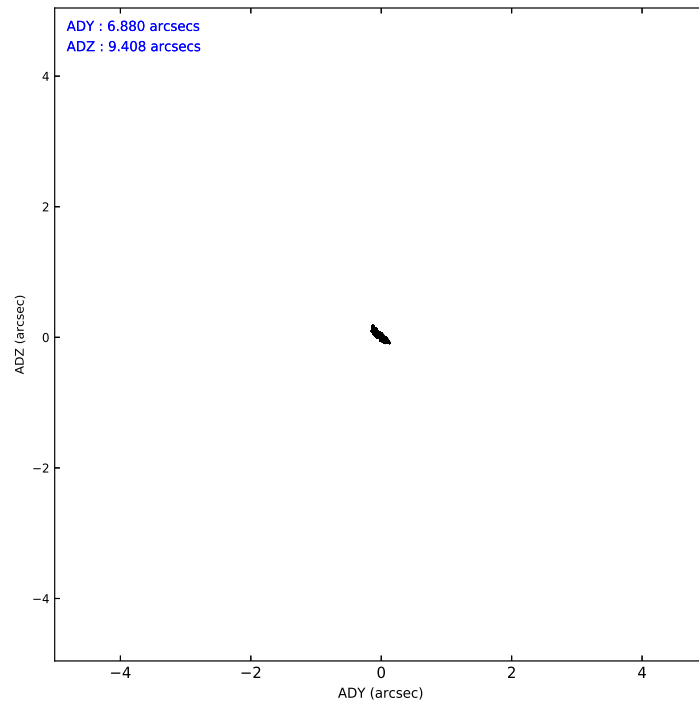
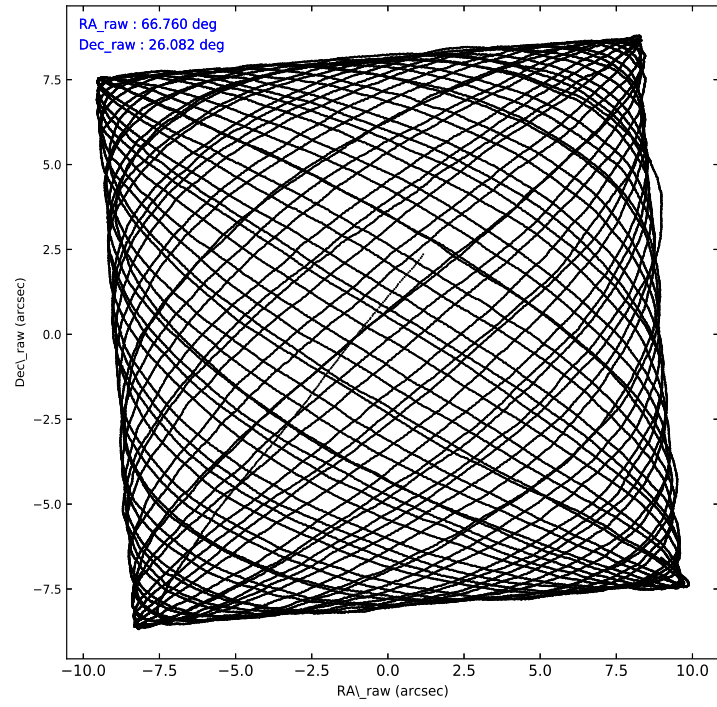
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	146241	142034	147845	163712	184950
rejected events	132280	128504	131566	89110	139743
rejected %	90%	90%	88%	54%	75%

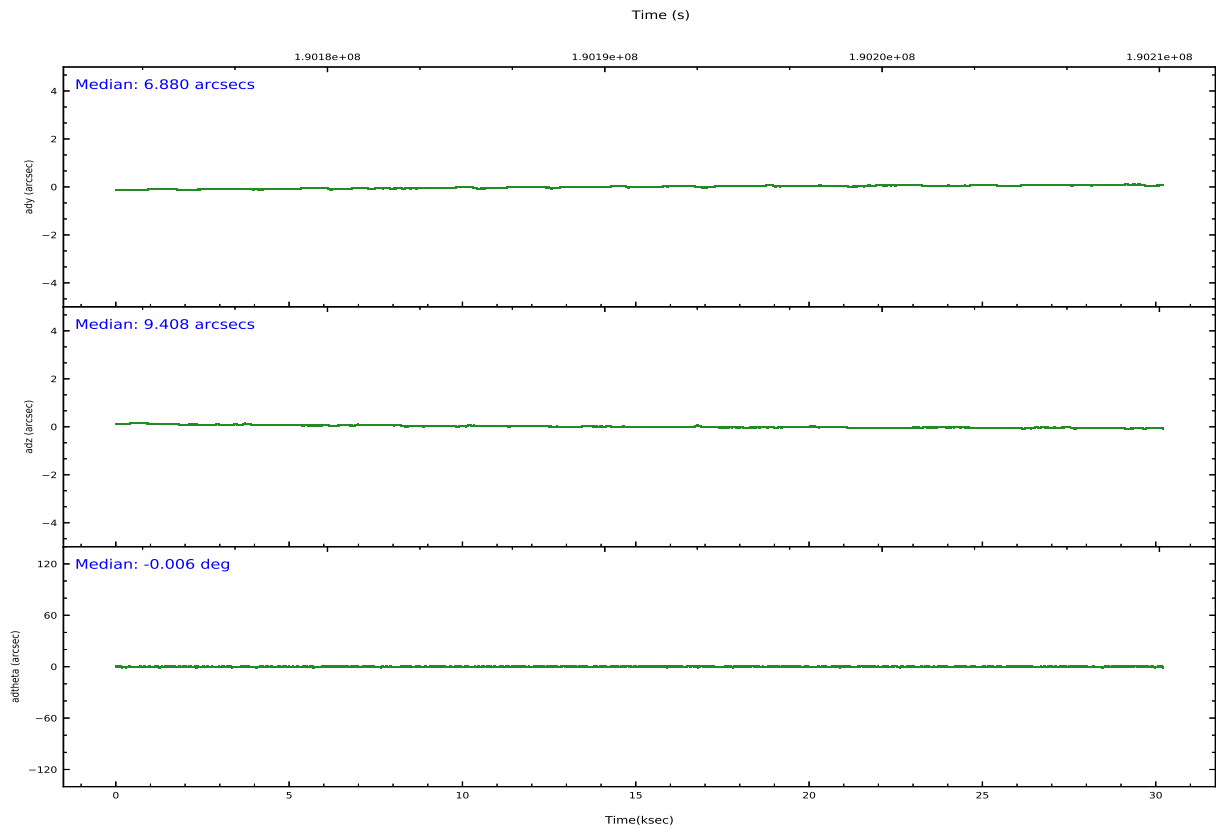
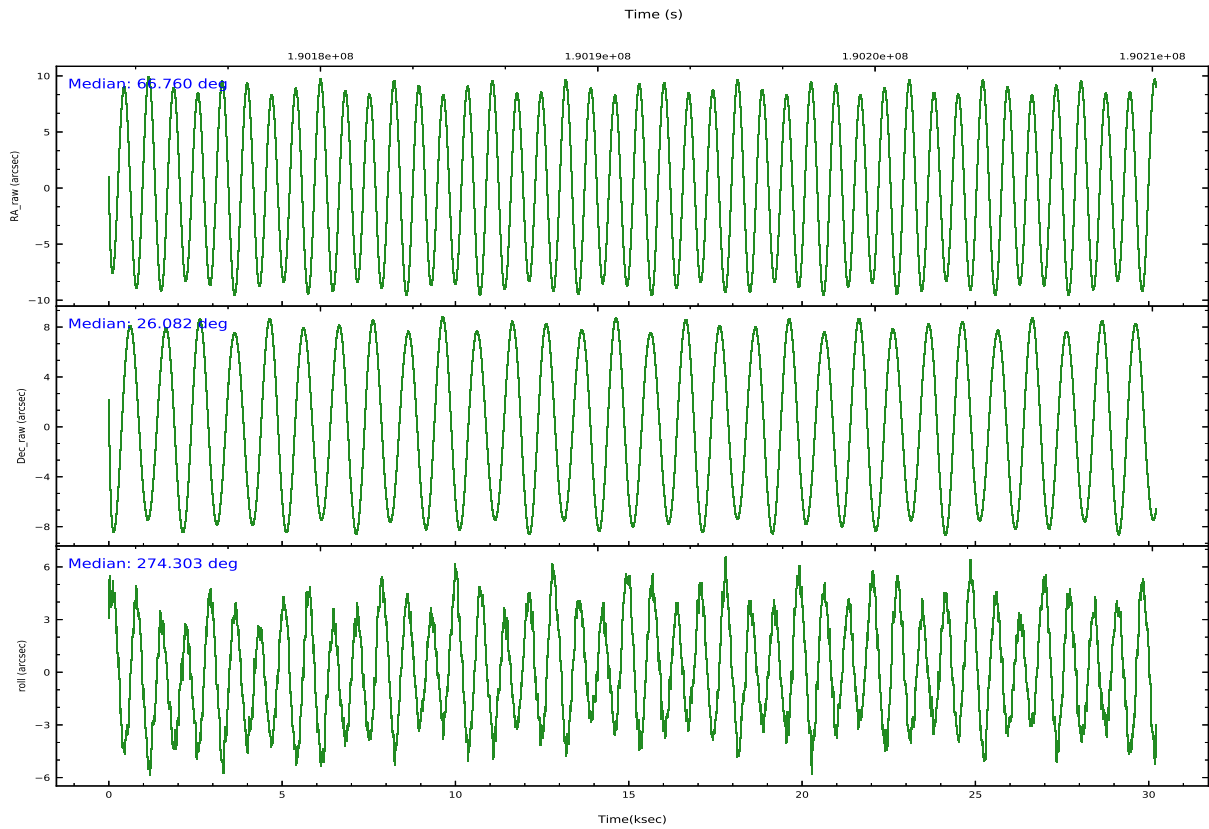
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	5037	4778	6147	6889	14578
	3%	3%	4%	4%	7%
grade 1 events	62	66	64	135	135
	0%	0%	0%	0%	0%
grade 2 events	3219	2857	3443	15074	9237
	2%	2%	2%	9%	4%
grade 3 events	1517	1601	1730	7132	5452
	1%	1%	1%	4%	2%
grade 4 events	1637	1565	1685	7075	5036
	1%	1%	1%	4%	2%
grade 5 events	4753	5771	5992	16978	8177
	3%	4%	4%	10%	4%
grade 6 events	2552	2729	3274	38439	10905
	1%	1%	2%	23%	5%
grade 7 events	127464	122667	125510	71990	131430
	87%	86%	84%	43%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23678	ACIS-23678	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	66.742319	66.756559951333	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.104581	26.084089278505	Alternating exposures requested	N	N
[deg] Pointing Roll	274.156330	274.30325109932	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	190178109.184000	190177131.63602			
Observation start date	2004-01-11T03:14:05	2004-01-11T02:58:51			
[s] Observation end time (MET)	190208109.184000	190209141.87492			
Observation end date	2004-01-11T11:34:05	2004-01-11T11:52:21			
Read mode	TIMED	TIMED			

2.3 Aspect





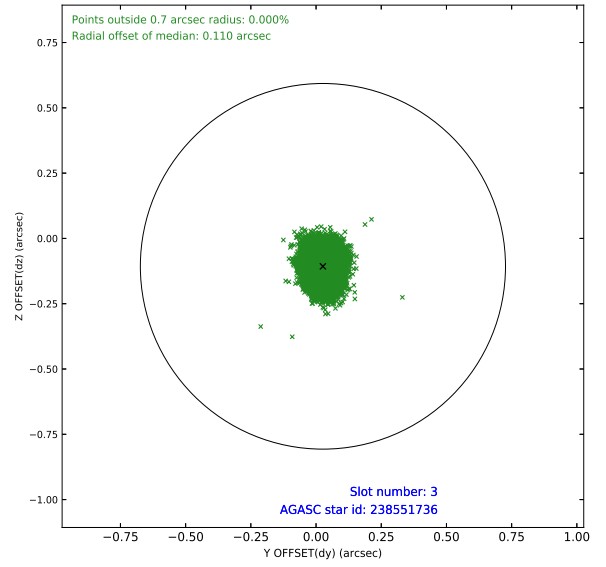
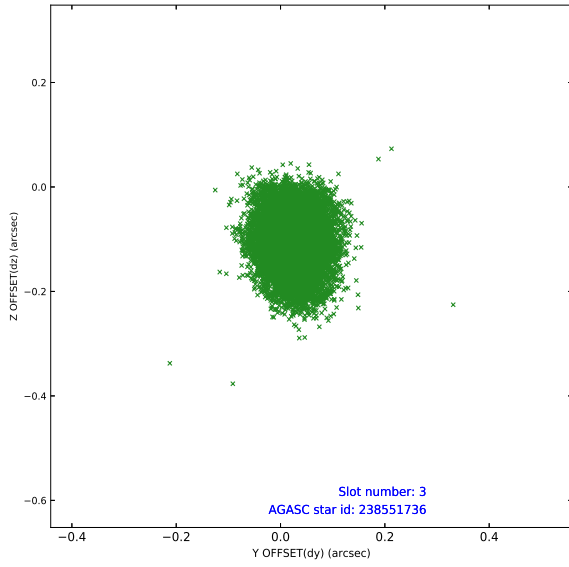
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	7370	1.000	-0.068	-0.062	0.008	0.013	0.000000	0.000000	-759.64	-1730
1	FID		ACIS-S-4	7.20	7370	1.000	0.125	0.049	0.008	0.015	0.000000	0.000000	2153.74	177
2	FID		ACIS-S-5	7.23	7370	1.000	-0.088	0.021	0.007	0.012	0.000000	0.000000	-1812.46	171
3	GUIDE	used	238551736	8.04	14738	1.000	0.026	-0.107	0.063	0.104	66.295103	25.749175	1169.10	-1538
4	GUIDE	used	238560976	7.88	14738	1.000	0.004	-0.026	0.053	0.085	66.476513	25.572013	1849.23	-999
5	GUIDE	used	240255592	9.94	14729	1.000	-0.059	-0.028	0.137	0.219	67.373587	26.152056	-27.54	2047
6	GUIDE	used	240257560	8.71	14739	1.000	0.100	0.069	0.057	0.094	66.998185	25.718771	1444.85	727
7	GUIDE	used	240781424	9.20	14734	1.000	-0.067	0.091	0.096	0.150	67.378197	26.671551	-1892.38	2188

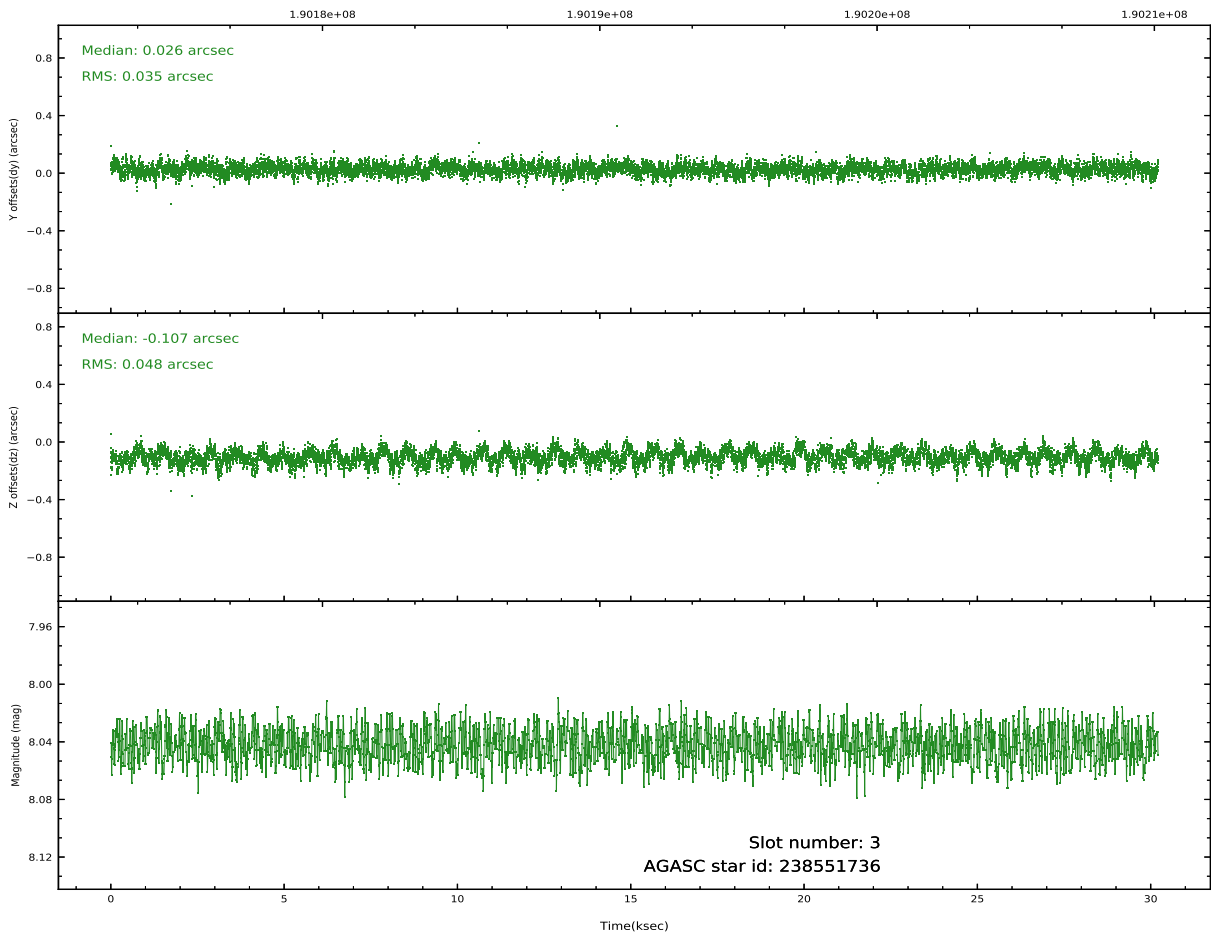
∞

2.4 Star Slots

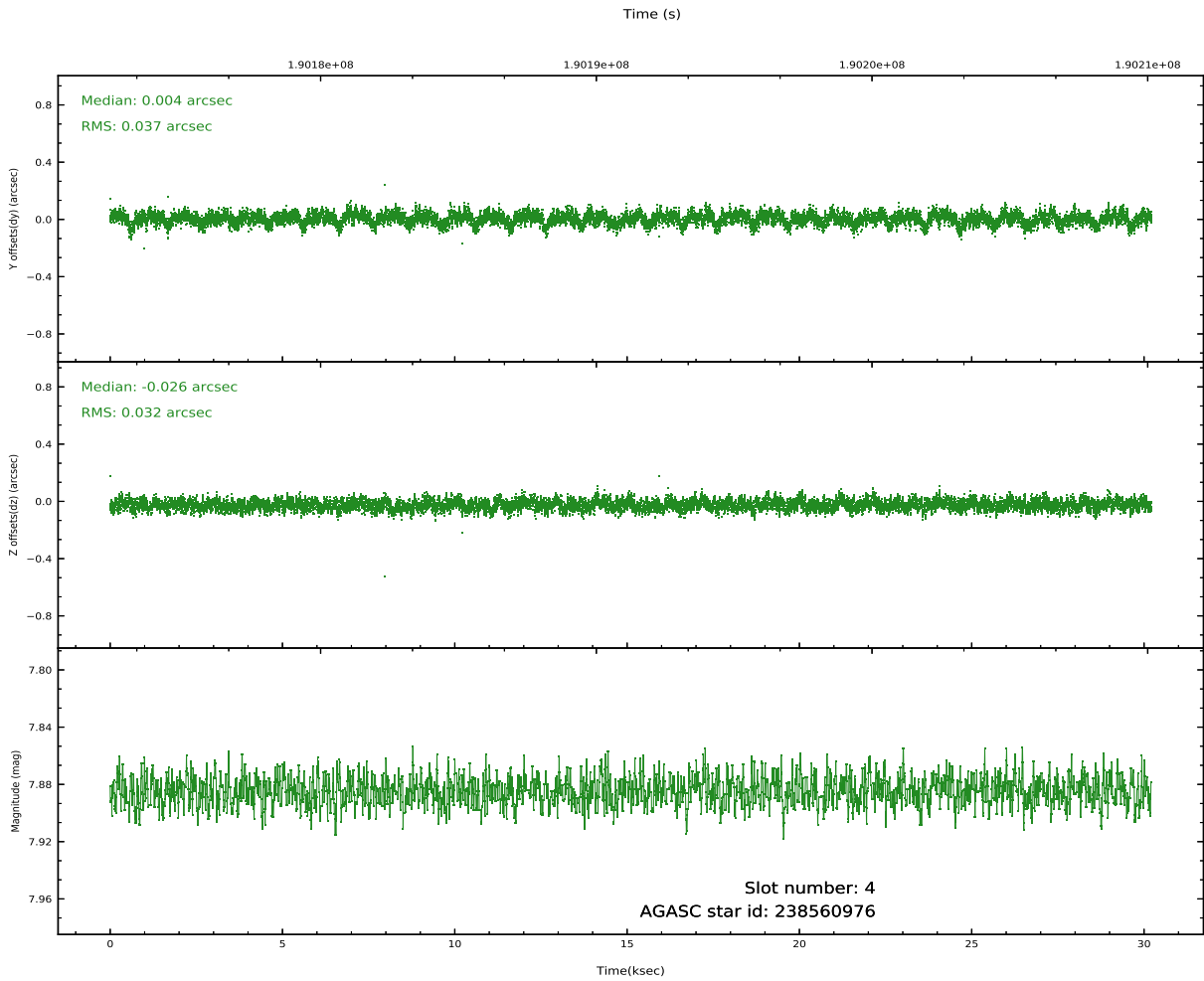
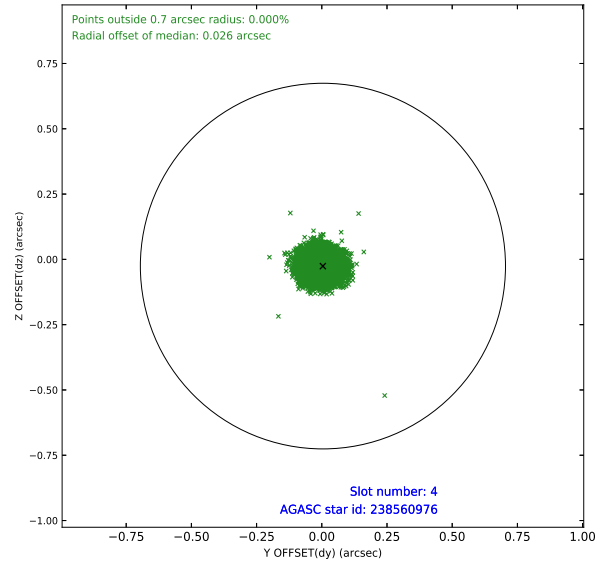
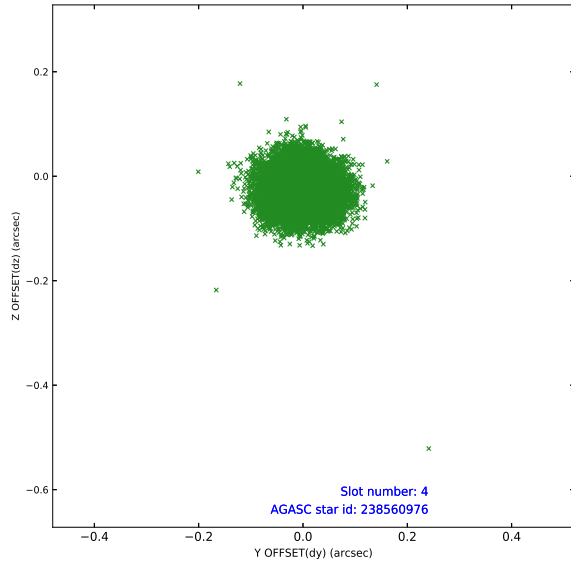
2.4.1 Slot 3



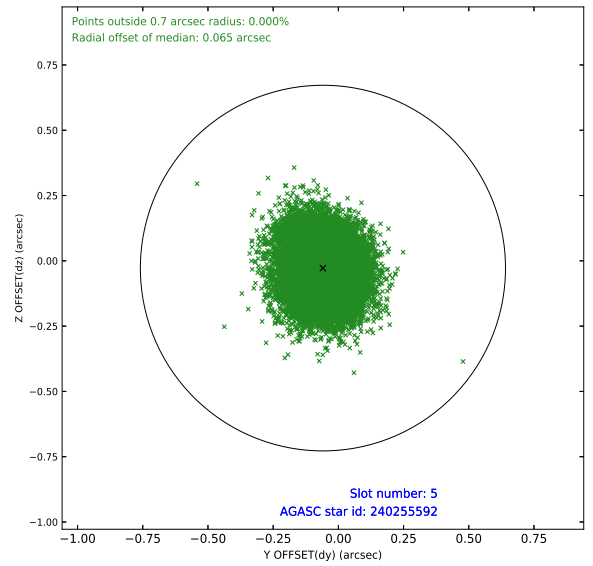
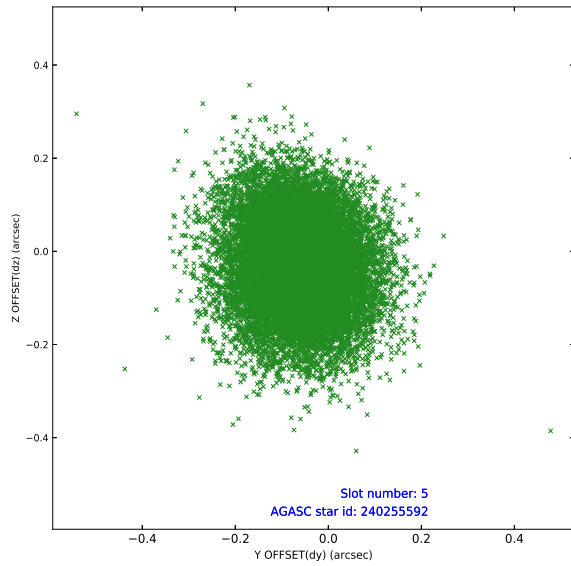
Time (s)



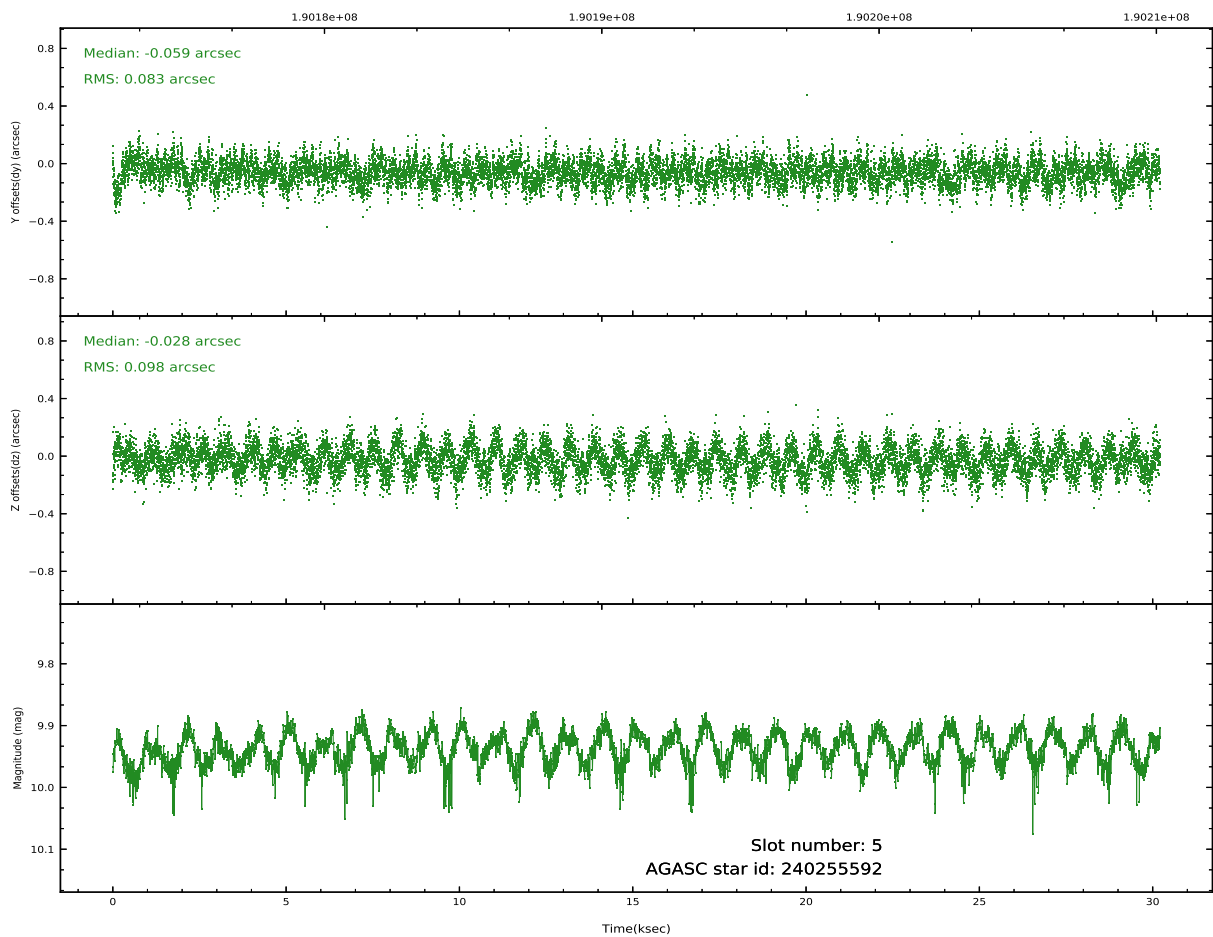
2.4.2 Slot 4



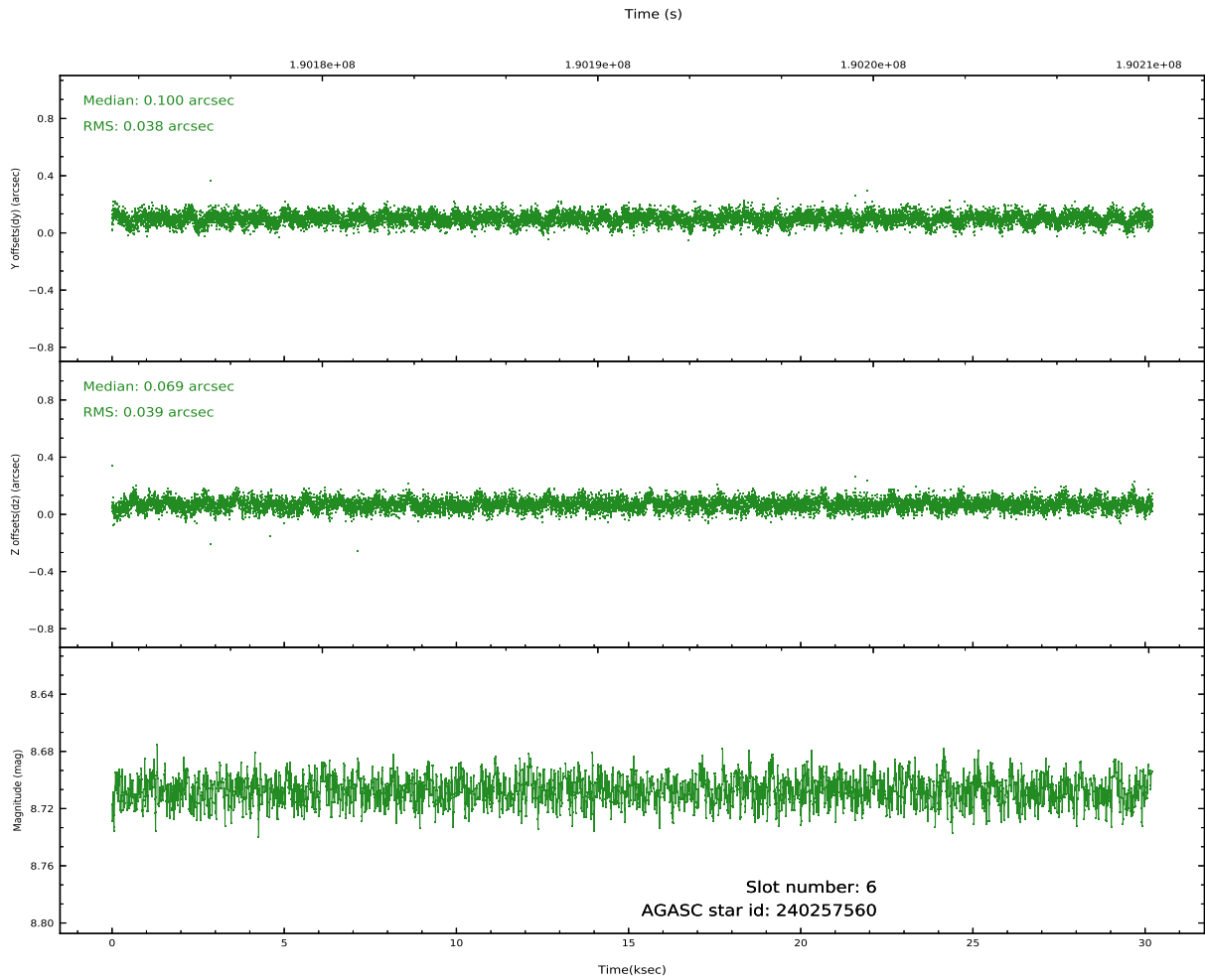
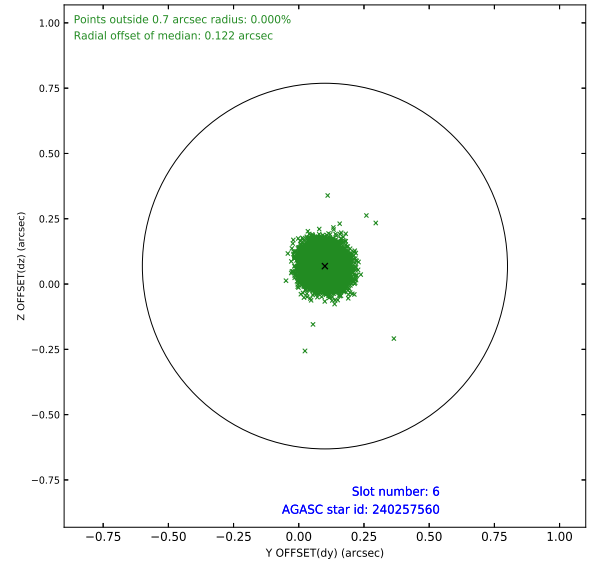
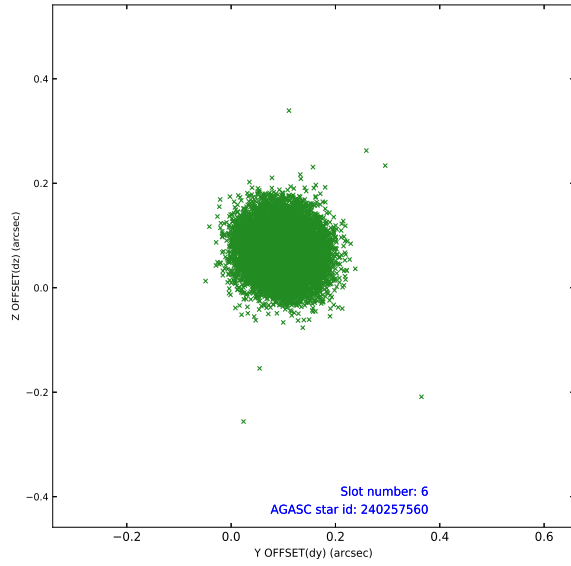
2.4.3 Slot 5



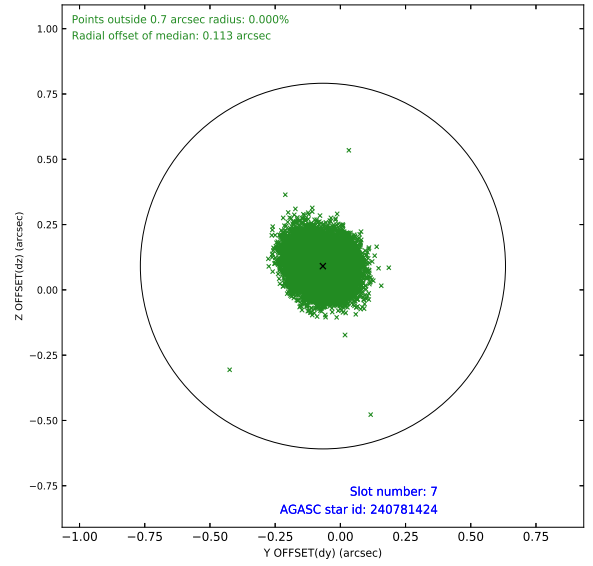
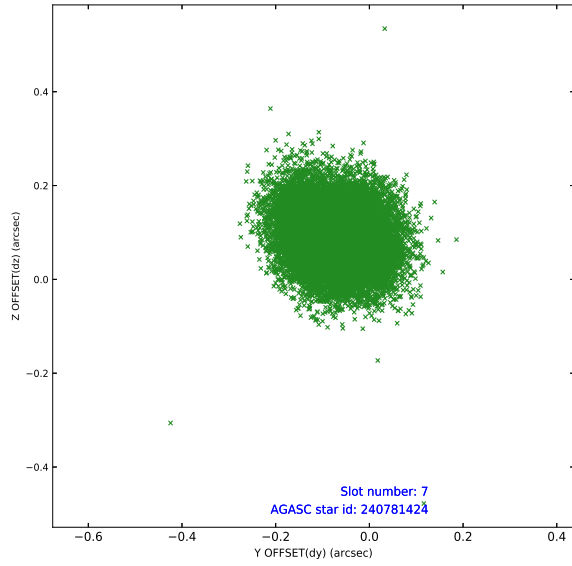
Time (s)



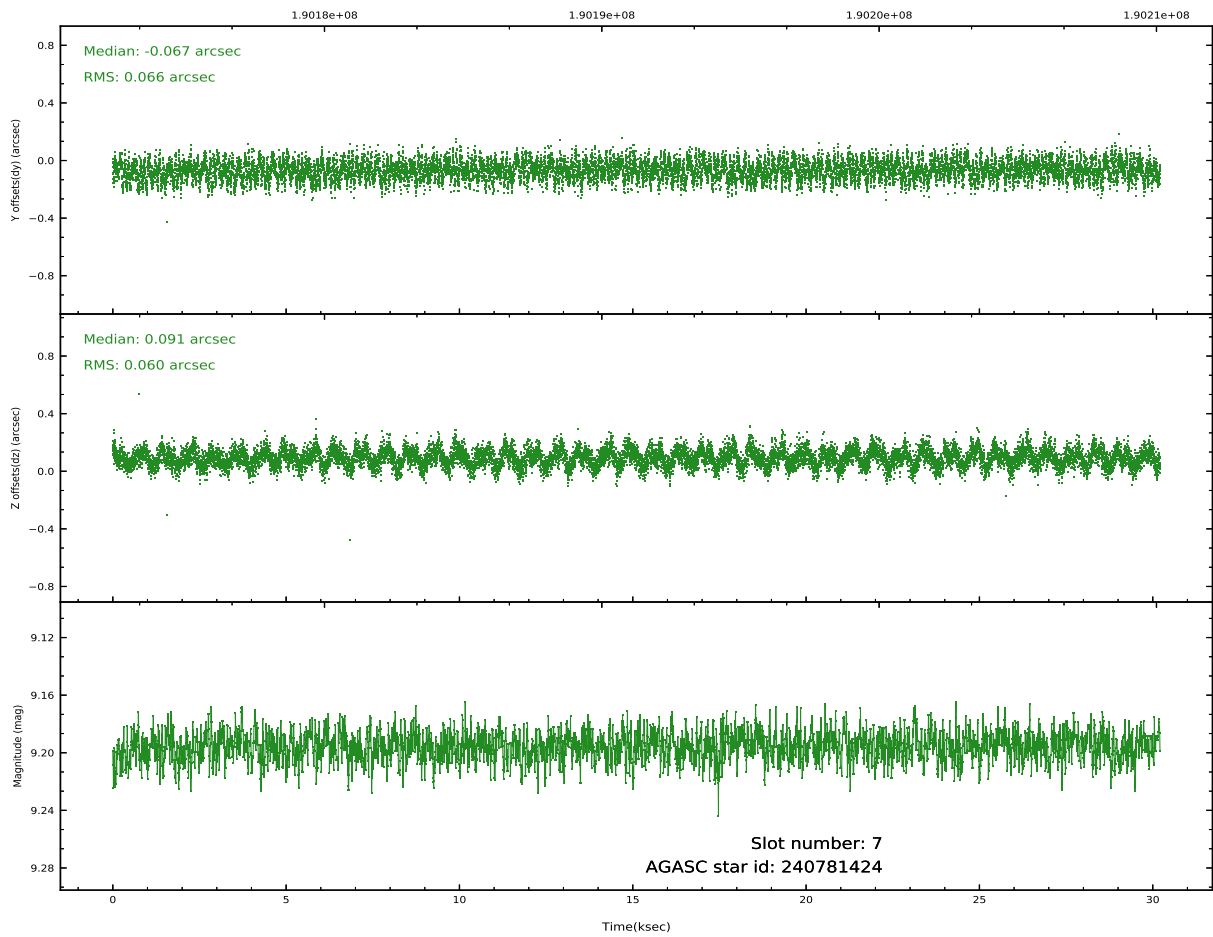
2.4.4 Slot 6



2.4.5 Slot 7

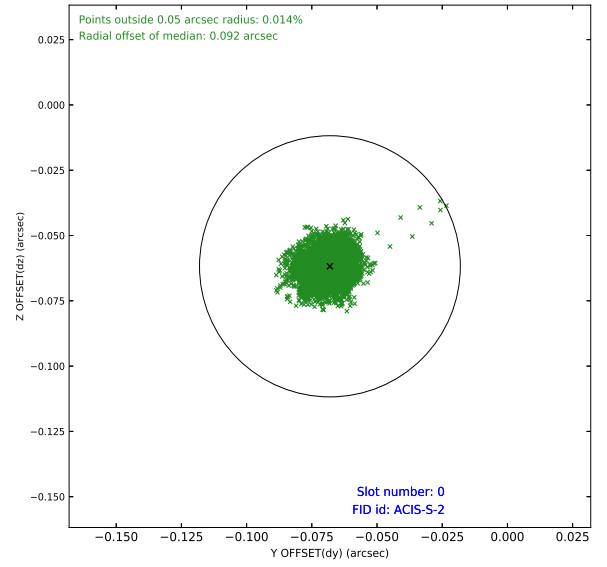
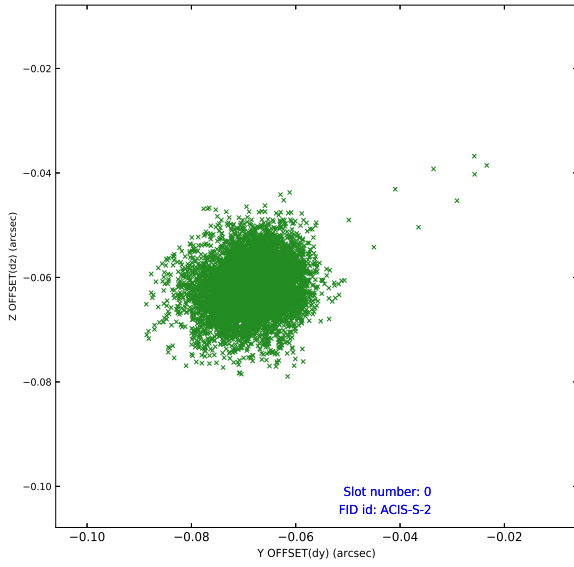


Time (s)

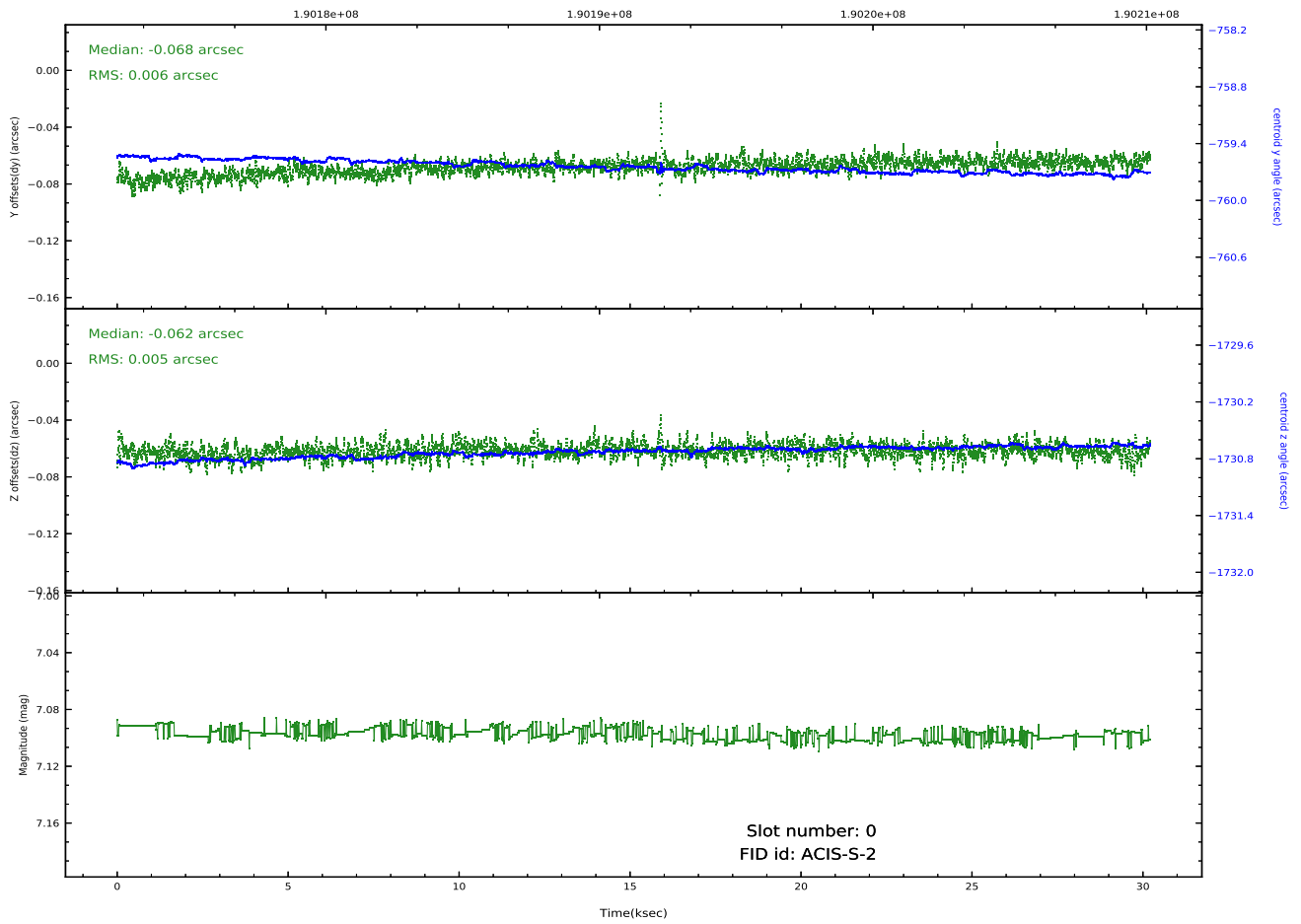


2.5 FID Slots

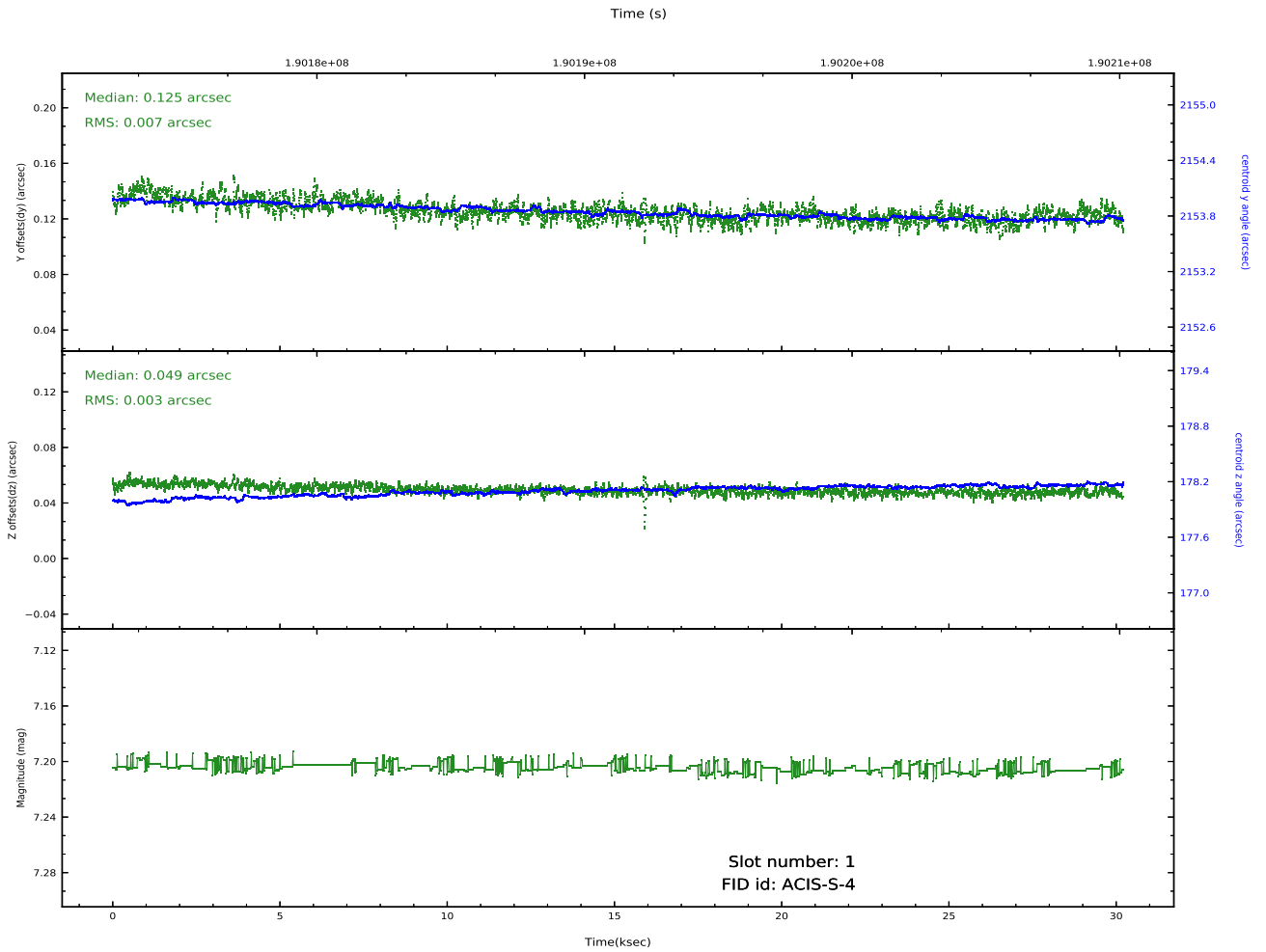
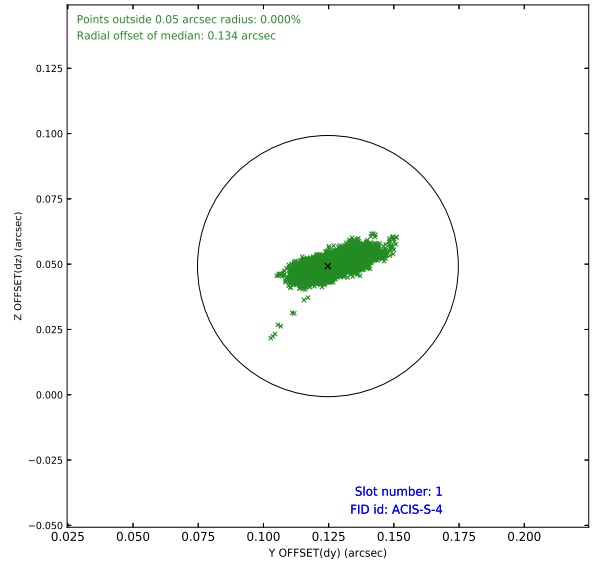
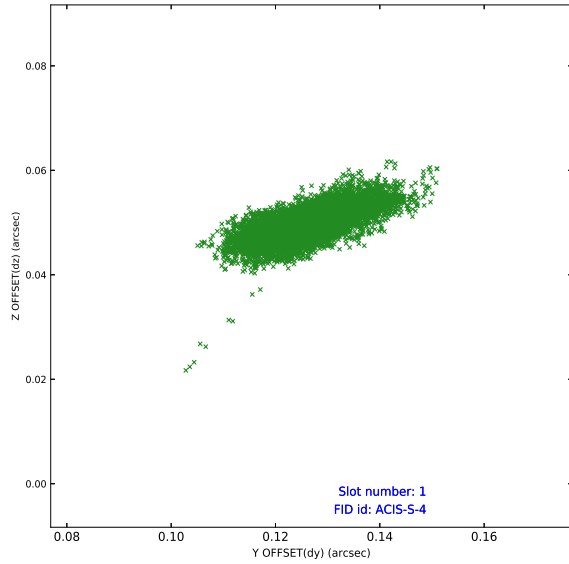
2.5.1 Slot 0



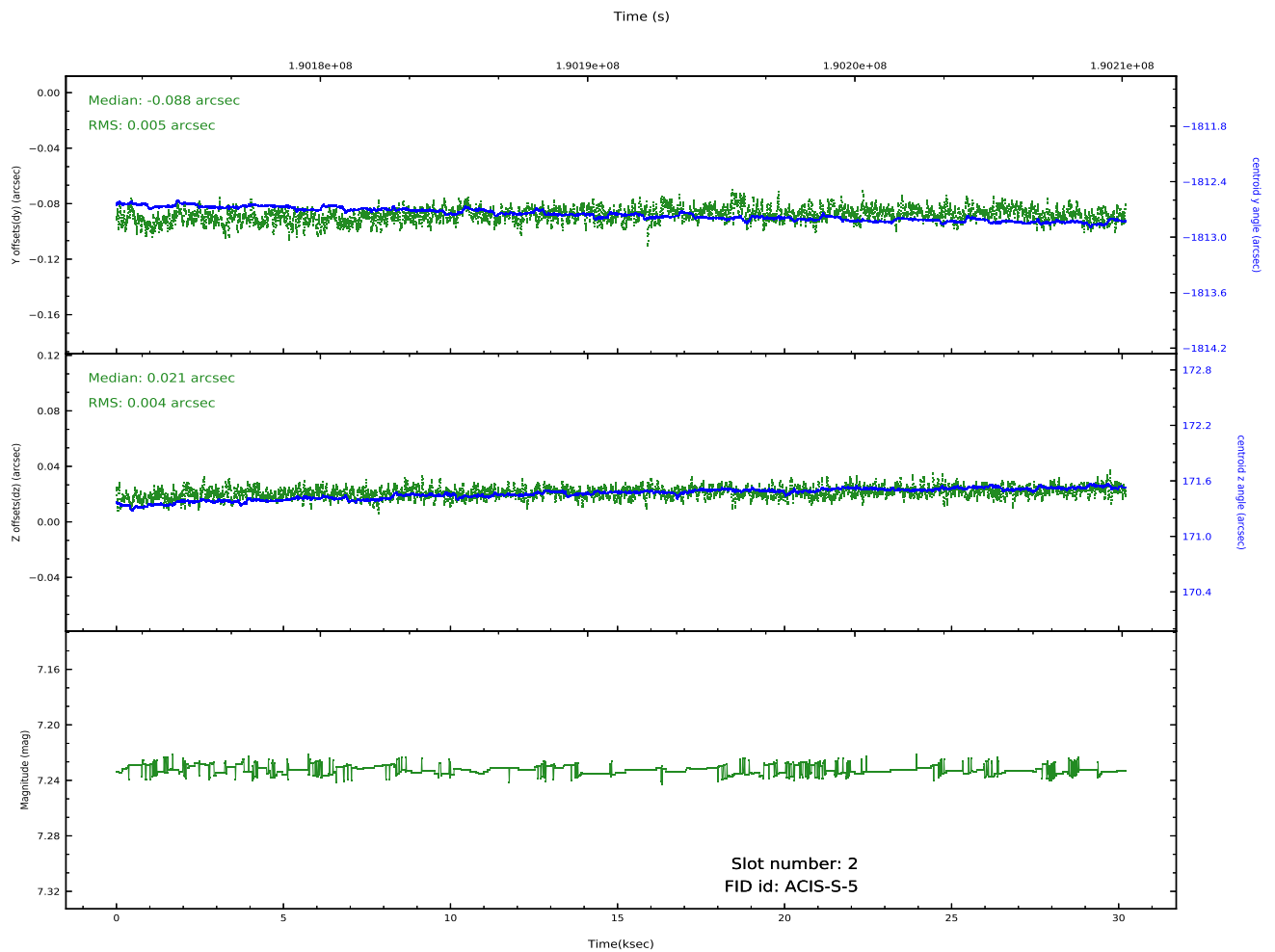
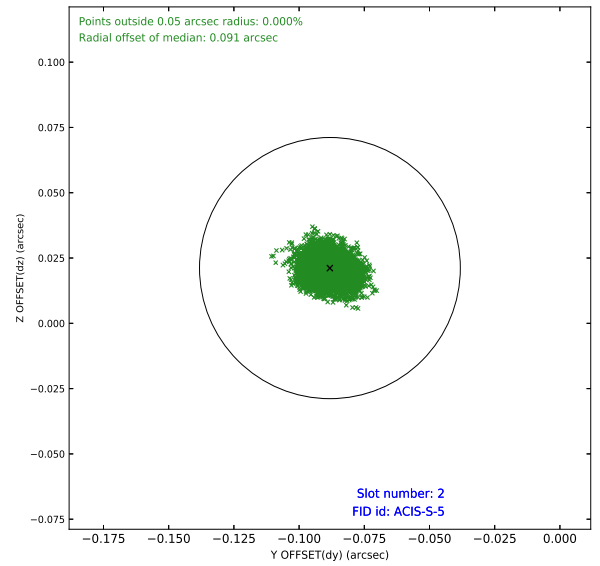
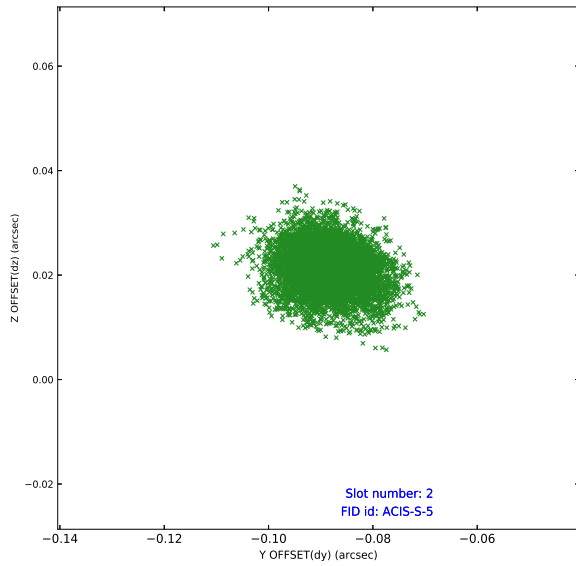
Time (s)



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.11

A.2 Comments