

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6361 - L2 Version 4
Chandra X-Ray Center

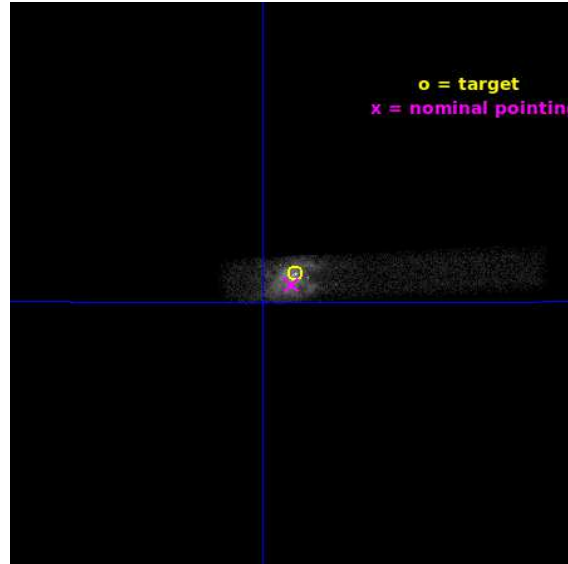
L2 Processing Date : Oct 9 2020

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1 Front

seq_num	701067	Sequence number
obs_id	6361	Observation id
title	Chandra and RXTE Observations of the Ultraluminous QPO Source in M82	
observer	Tod Strohmayer	Principal investigator
object	CXOM82 J095550.2+694047	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.959167	Observer's specified target RA [deg]
dec_targ	69.679722	Observer's specified target Dec [deg]
ra_nom	148.96315324602	Nominal RA [deg]
dec_nom	69.674557059837	Nominal Dec [deg]
roll_nom	357.2438968342	Nominal Roll [deg]
revision	4	Processing version of data
ontime	19240.400286674	Sum of GTIs [s]
livetime	17450.027468415	Livetime [s]
ontime7	19240.400286674	Sum of GTIs [s]
l2events	71828	Number of level 2 events

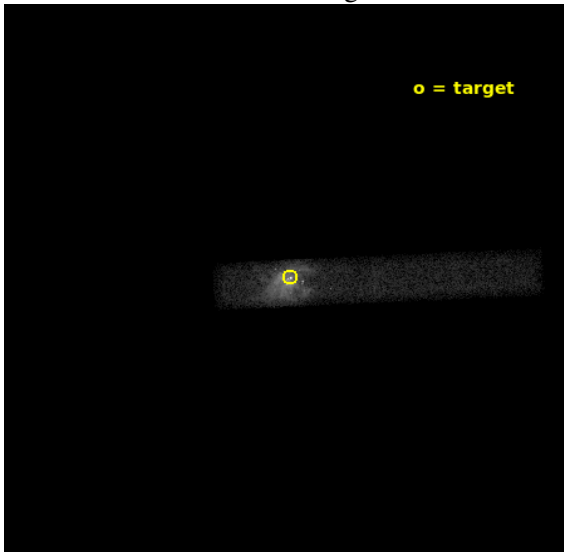


2 OBI

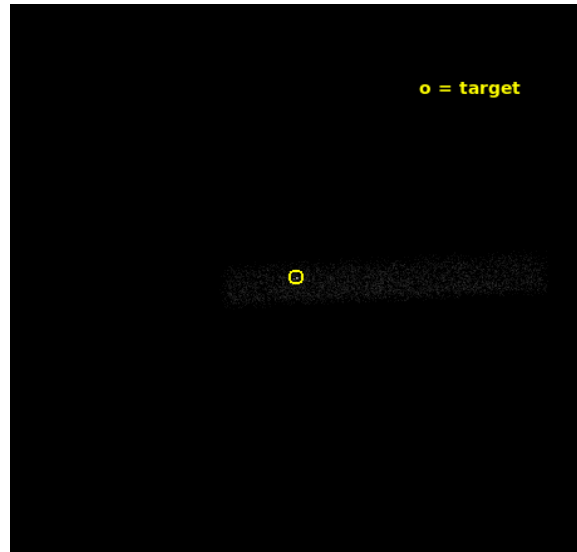
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	19104.362000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	19240.400286674	Sum of GTIs [s]
caldbver	4.9.2	 	ontime7	19240.400286674	Sum of GTIs [s]
date	2020-10-09T23:12:38	Date and time of file creation	l1events	92737	Number of level 1 events
revision	4	Processing version of data			

2.1.3 Events

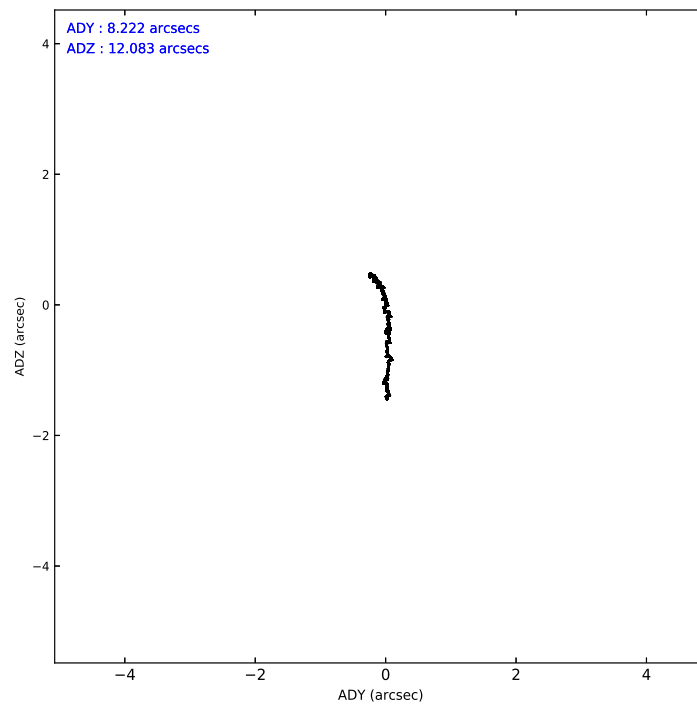
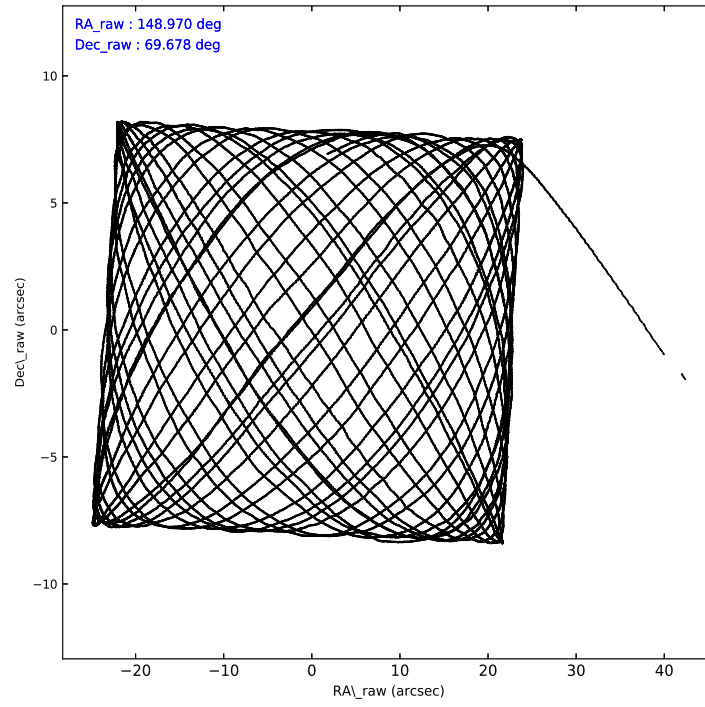
	ccd 7
level 1 events	92737
rejected events	19929
rejected %	21%

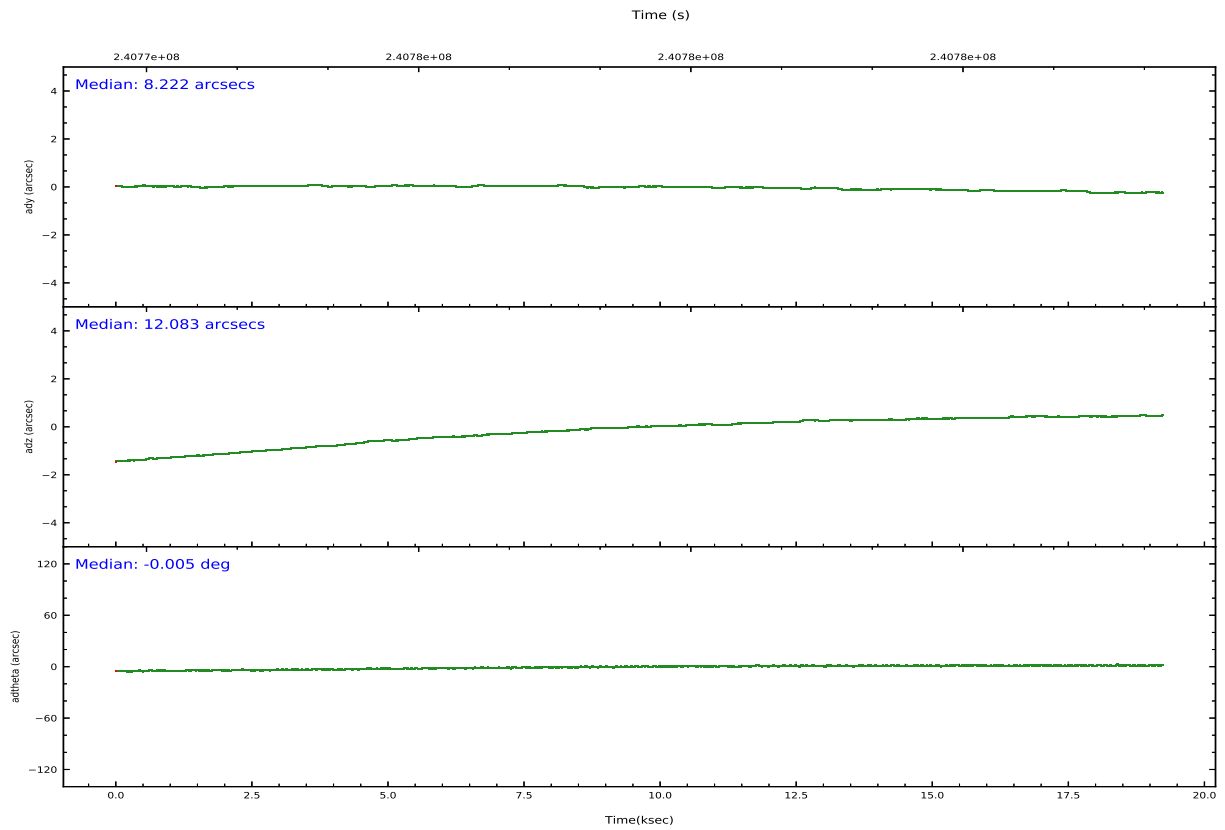
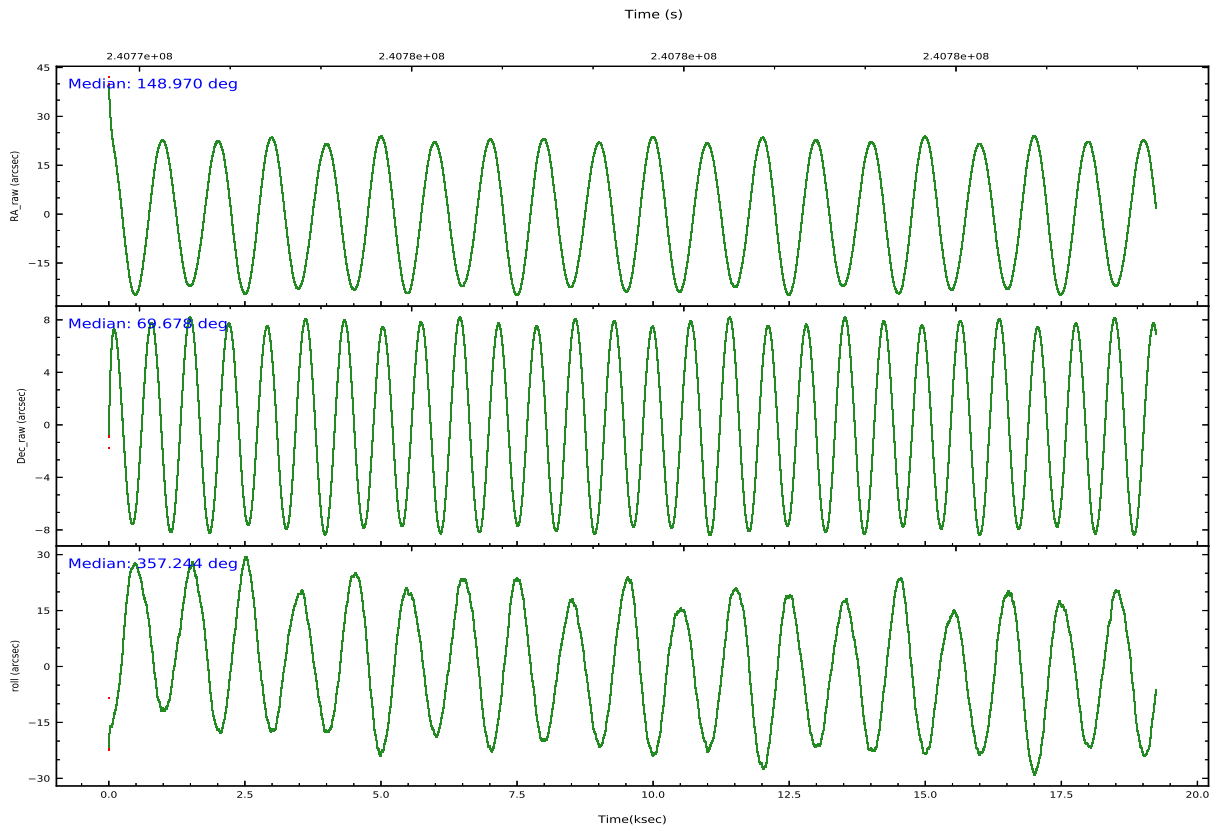
	ccd 7
grade 0 events	15341
	16%
grade 1 events	147
	0%
grade 2 events	19568
	21%
grade 3 events	7909
	8%
grade 4 events	8063
	8%
grade 5 events	2975
	3%
grade 6 events	23380
	25%
grade 7 events	15354
	16%

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	148.901326	148.96315324602	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	69.665040	69.674557059837	Subarray start row	449	449
[deg] Pointing Roll	357.154243	357.2438968342	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	240769574.184000	240767756.52699			
Observation start date	2005-08-18T16:25:10	2005-08-18T15:55:56			
[s] Observation end time (MET)	240788678.184000	240788896.12796			
Observation end date	2005-08-18T21:43:34	2005-08-18T21:48:16			
Read mode	TIMED	TIMED			

2.3 Aspect





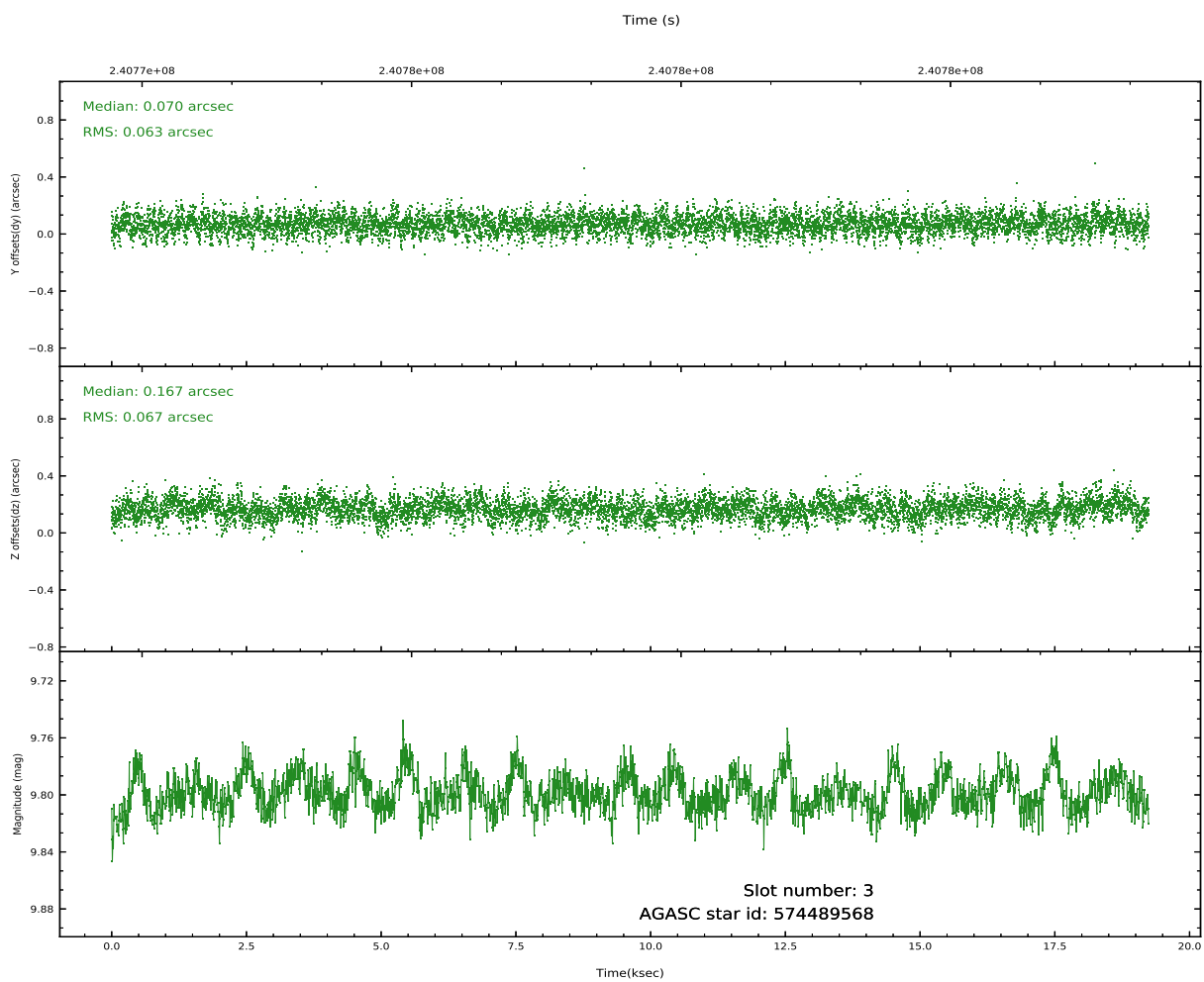
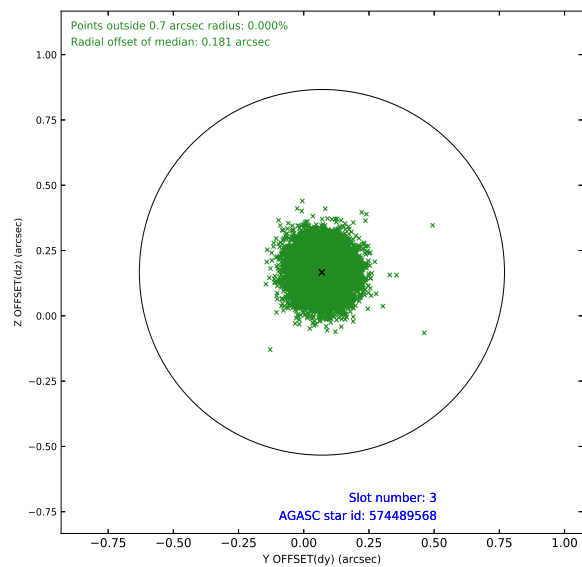
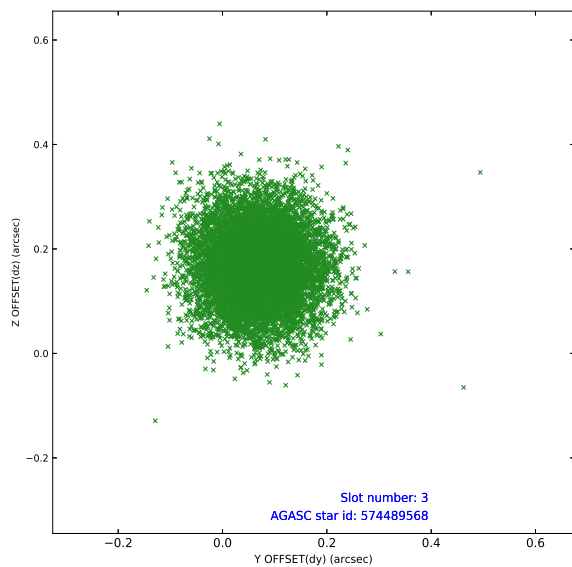
Slot Statistics

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	4694	1.000	-0.047	-0.068	0.016	0.029	0.000000	0.000000	-760.98	-1733
1	FID		ACIS-S-4	7.20	4694	1.000	0.170	0.041	0.014	0.024	0.000000	0.000000	2152.39	175
2	FID		ACIS-S-5	7.23	4694	1.000	-0.151	0.037	0.014	0.023	0.000000	0.000000	-1813.70	168
3	GUIDE	used	574489568	9.80	9381	1.000	0.070	0.167	0.097	0.157	147.223974	69.438157	-2078.40	-892
4	GUIDE	used	574491184	9.05	9363	1.000	-0.024	-0.071	0.073	0.119	148.582453	69.768699	-415.08	353
5	GUIDE	used	574491280	9.36	9381	1.000	0.012	0.038	0.100	0.158	148.611567	69.450135	-327.68	-790
6	GUIDE	used	574491872	9.25	9377	1.000	0.016	-0.081	0.084	0.140	147.207613	69.765453	-2125.29	283
7	GUIDE	used	574886464	9.79	9381	1.000	-0.074	-0.051	0.165	0.256	149.898674	70.203982	1117.38	2008

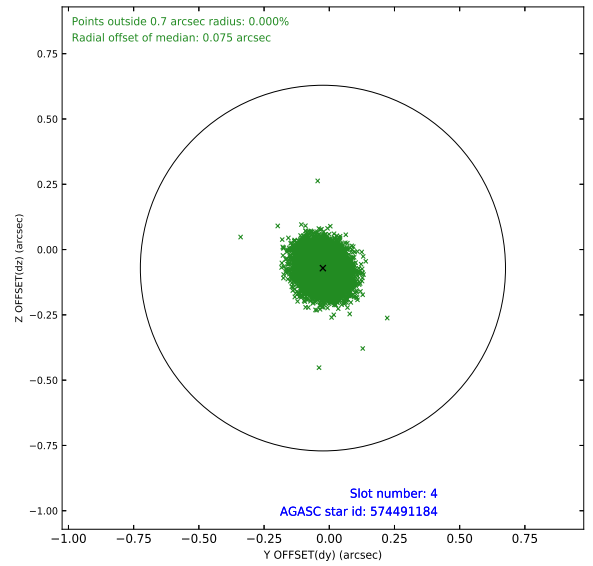
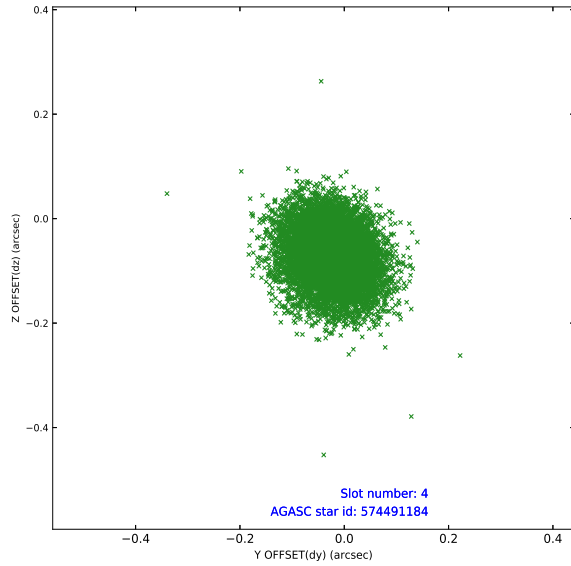
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2.4 Star Slots

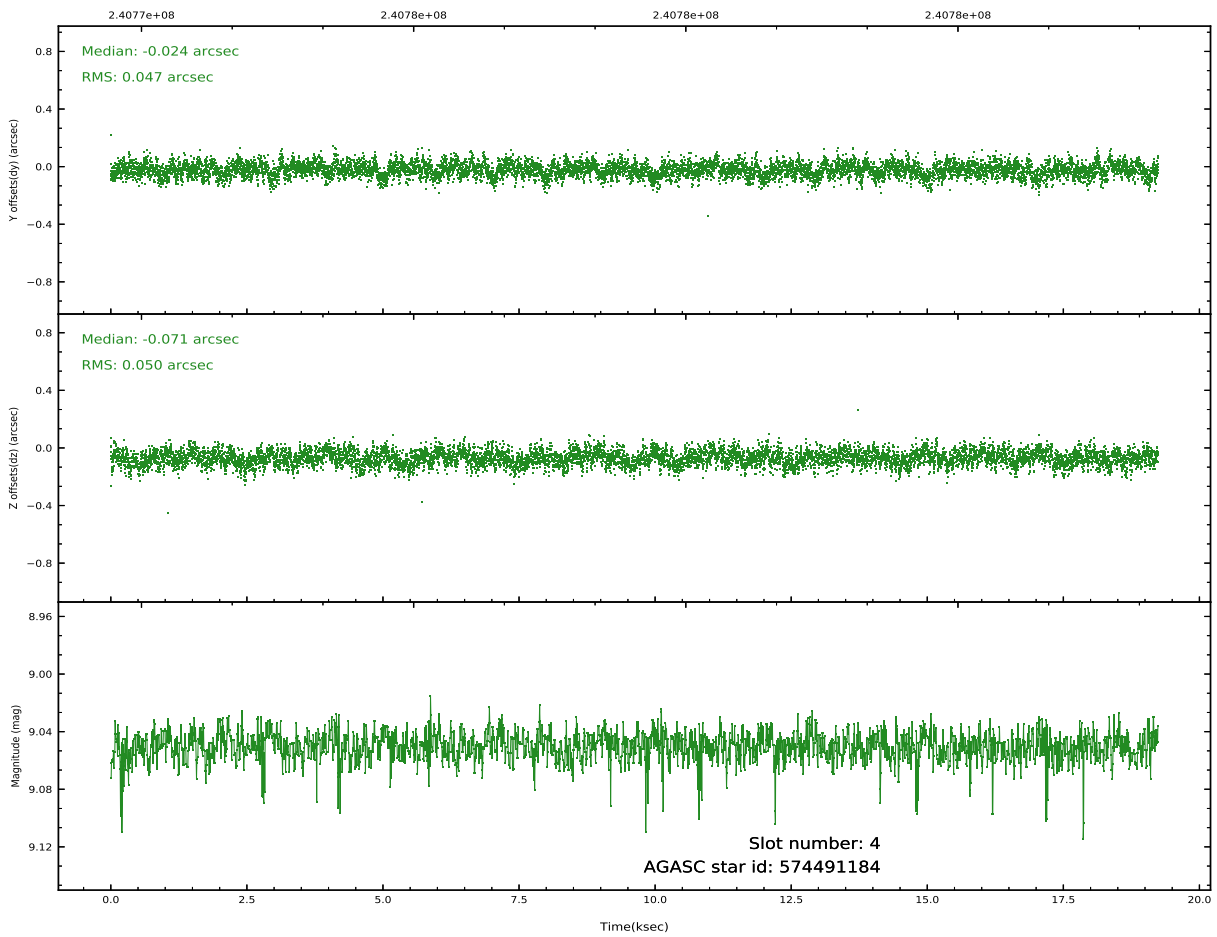
2.4.1 Slot 3



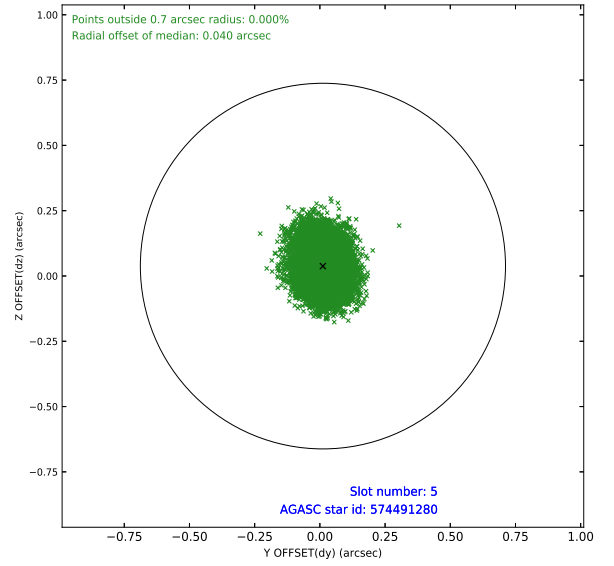
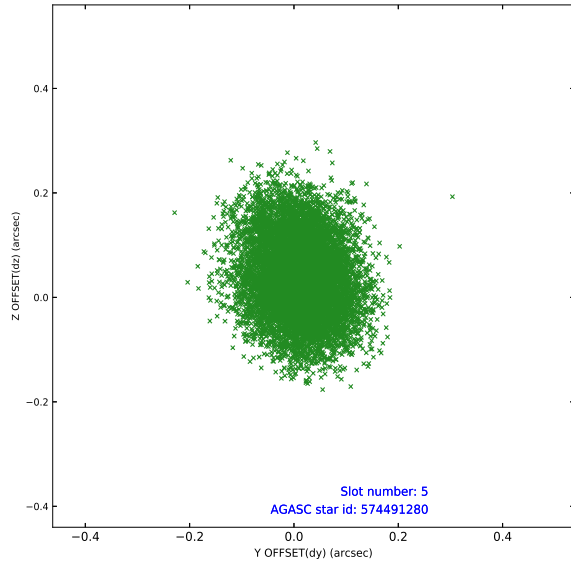
2.4.2 Slot 4



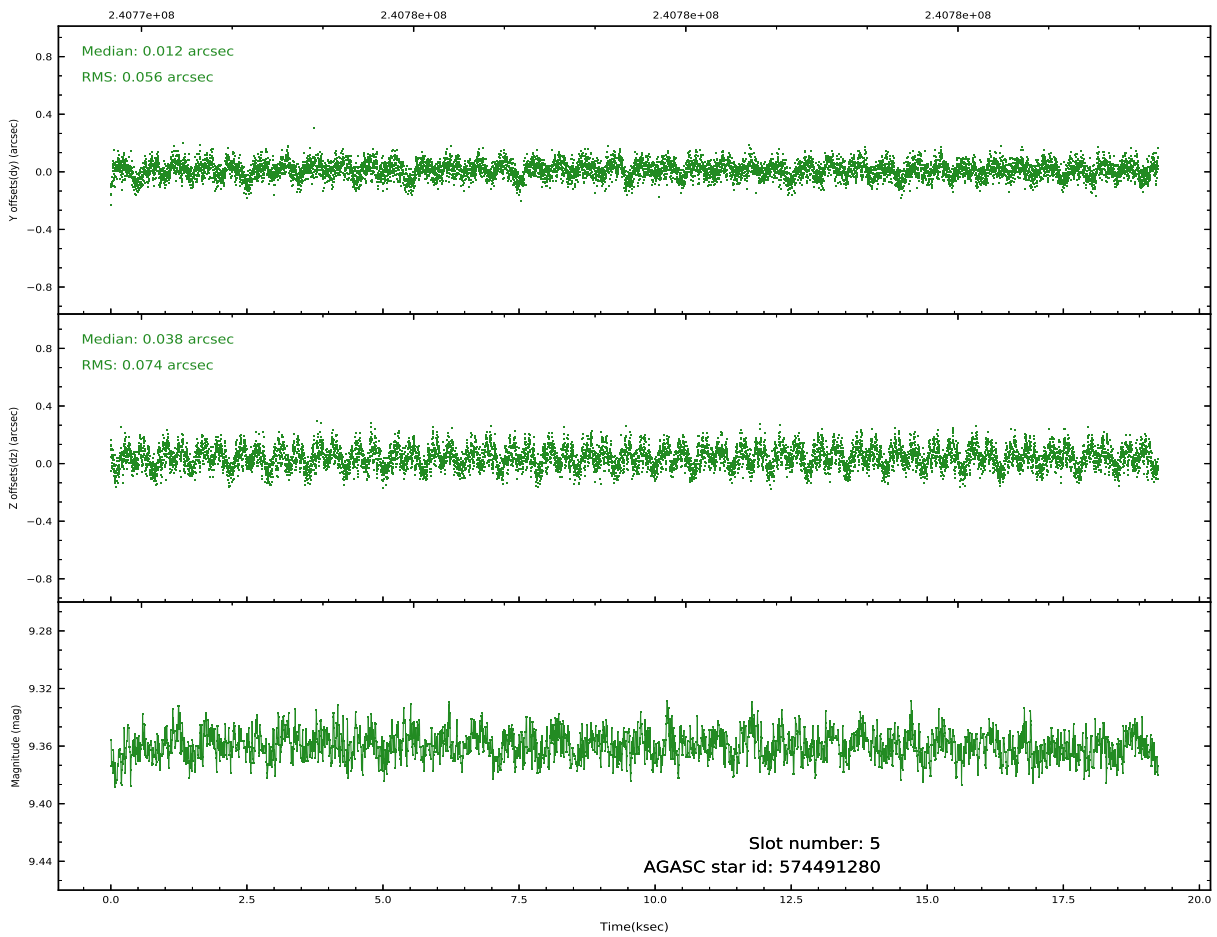
Time (s)



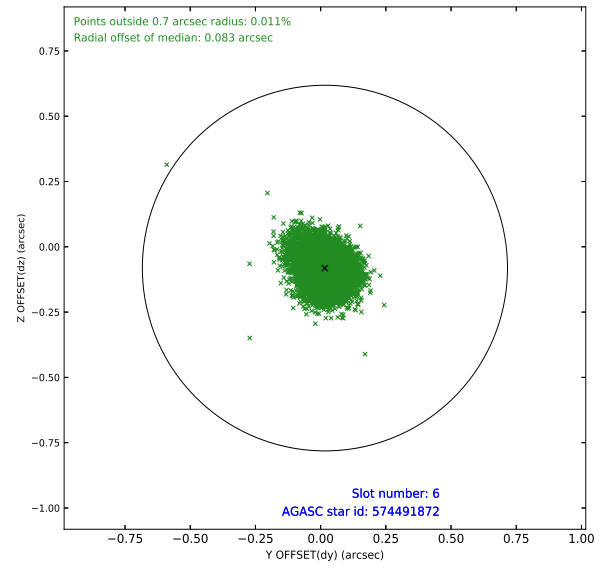
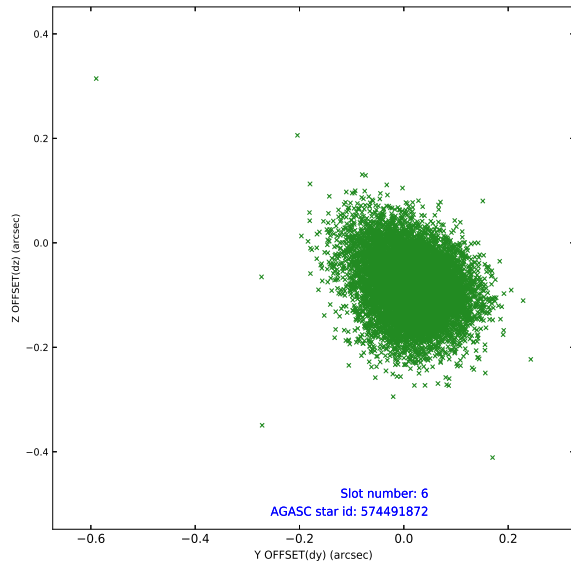
2.4.3 Slot 5



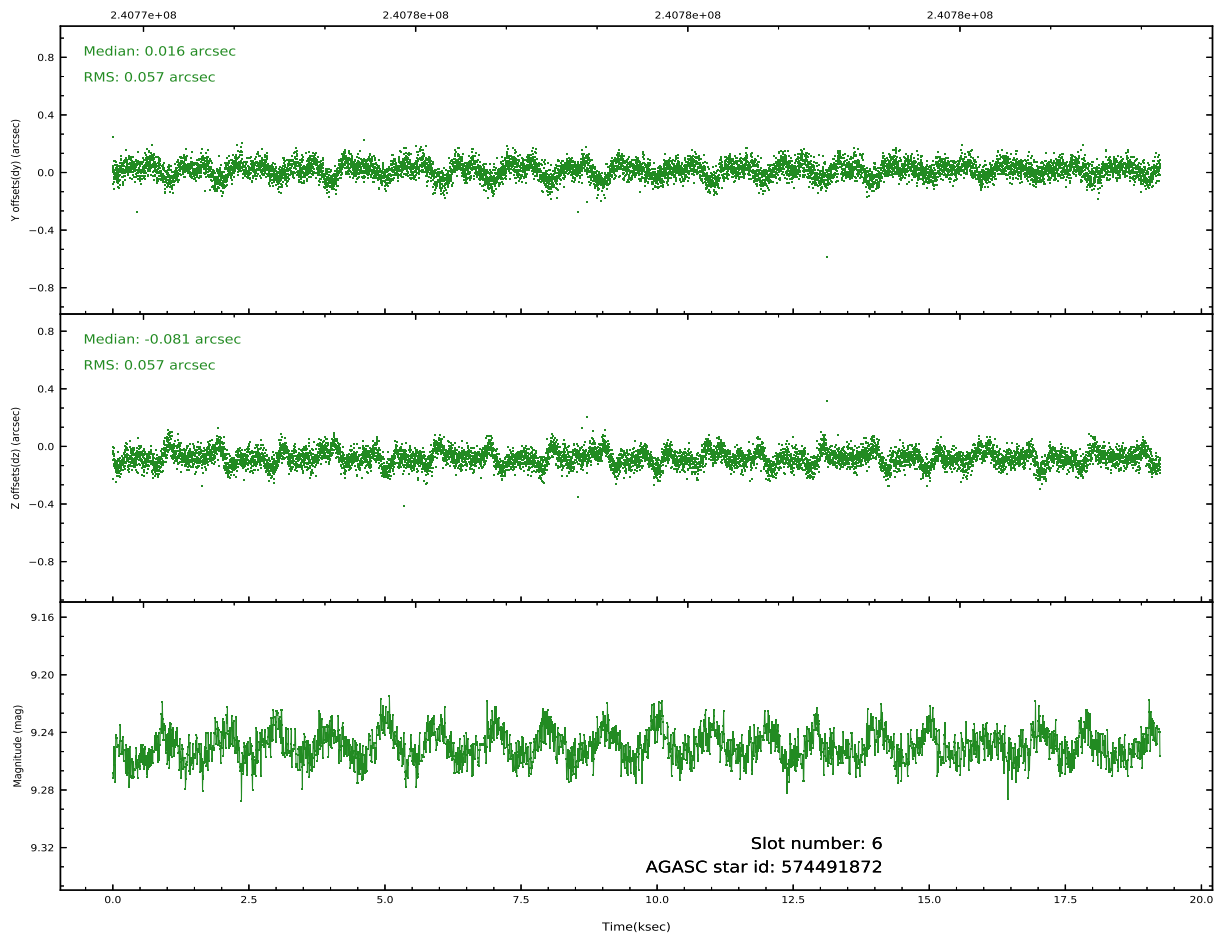
Time (s)



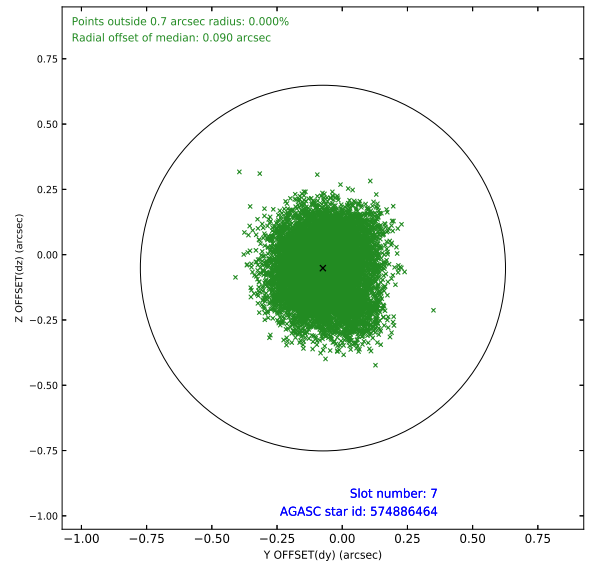
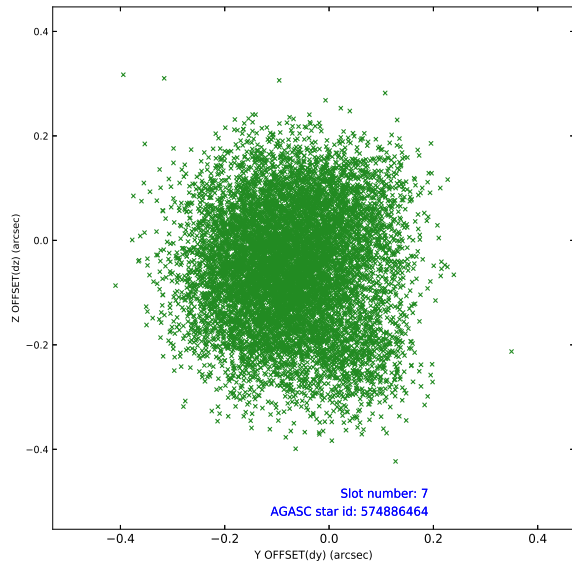
2.4.4 Slot 6



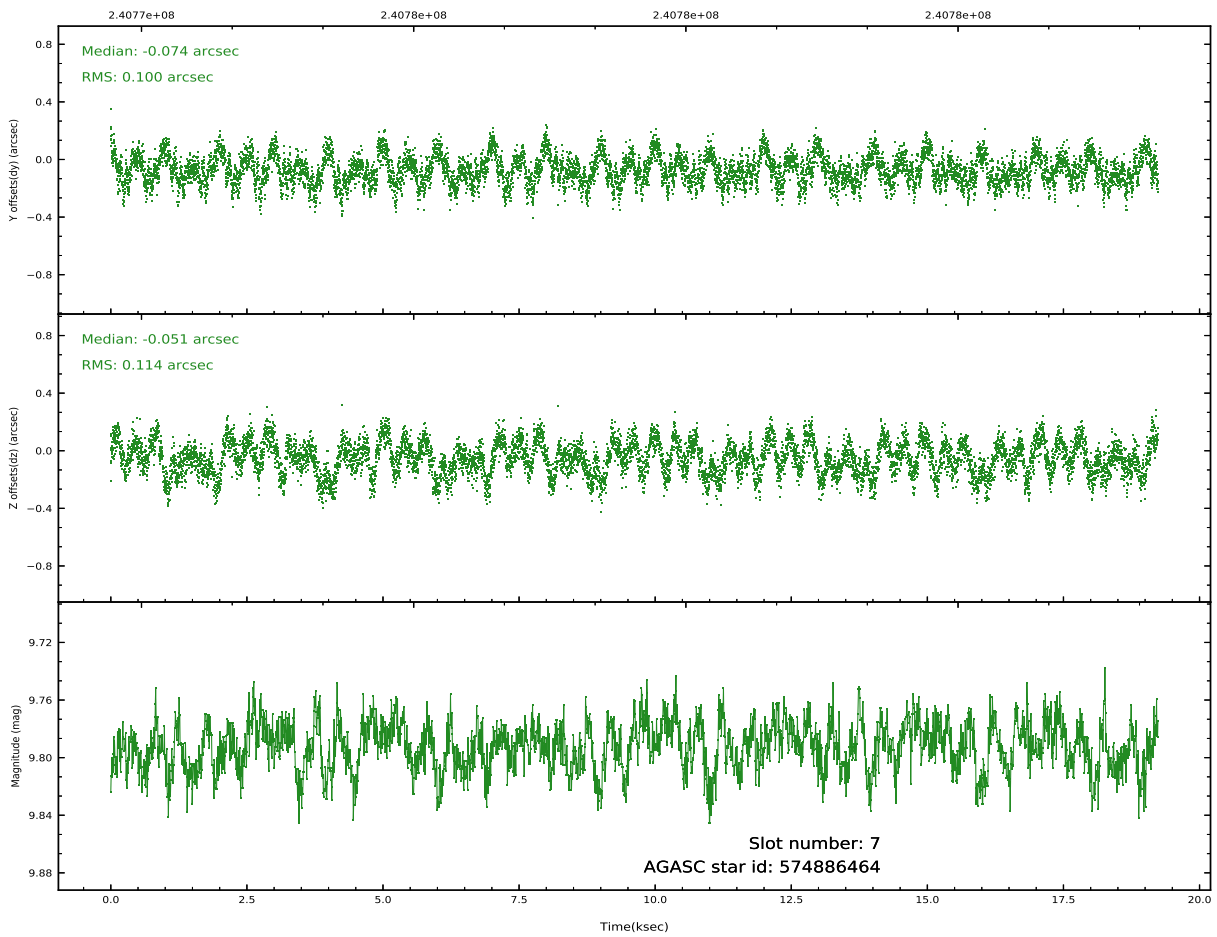
Time (s)



2.4.5 Slot 7

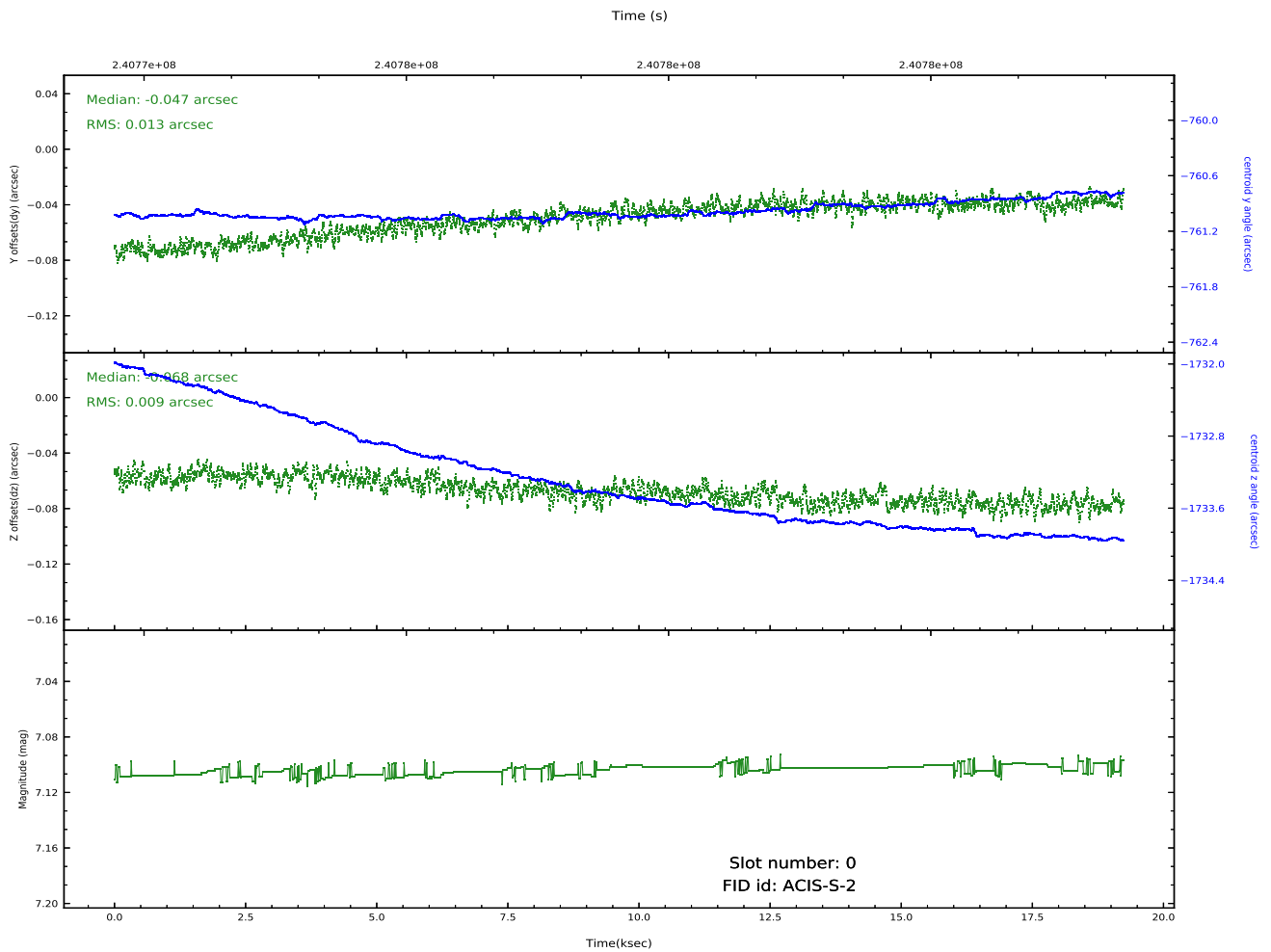
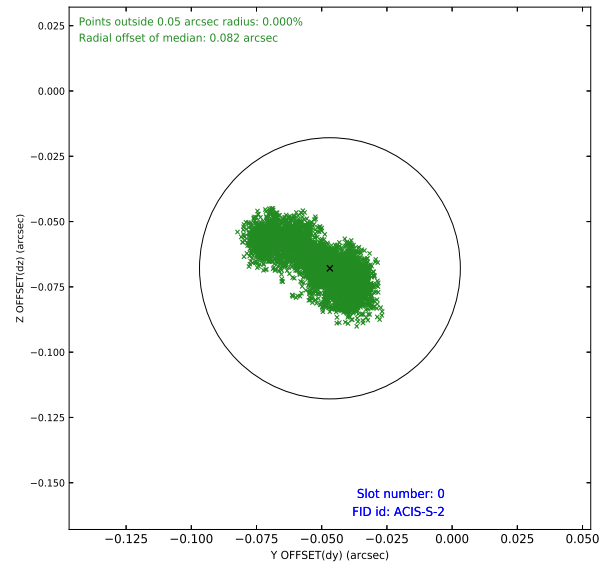
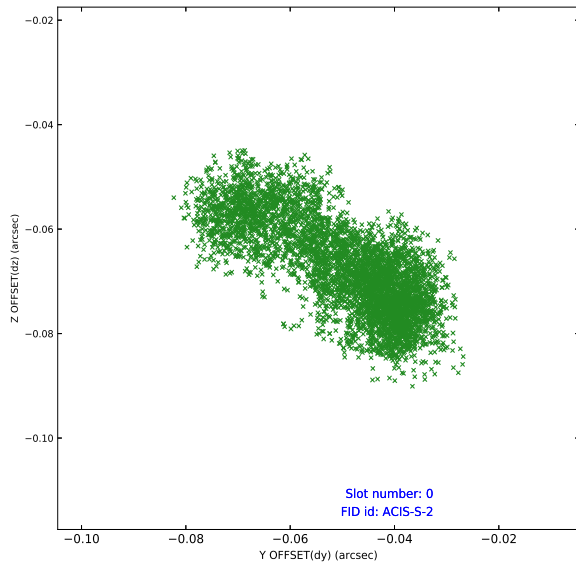


Time (s)

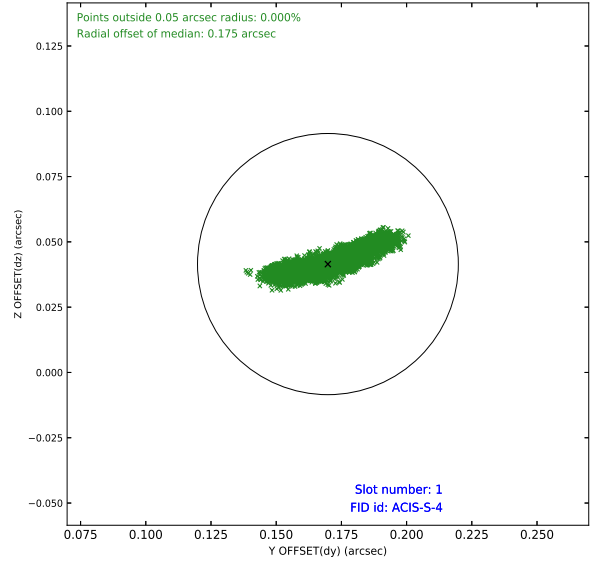
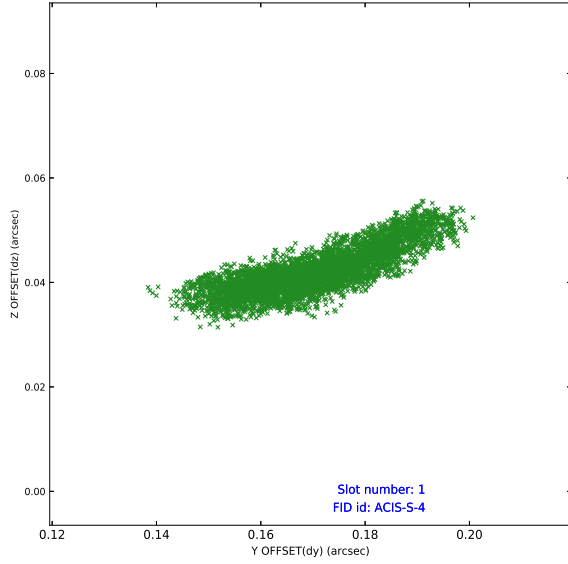


2.5 FID Slots

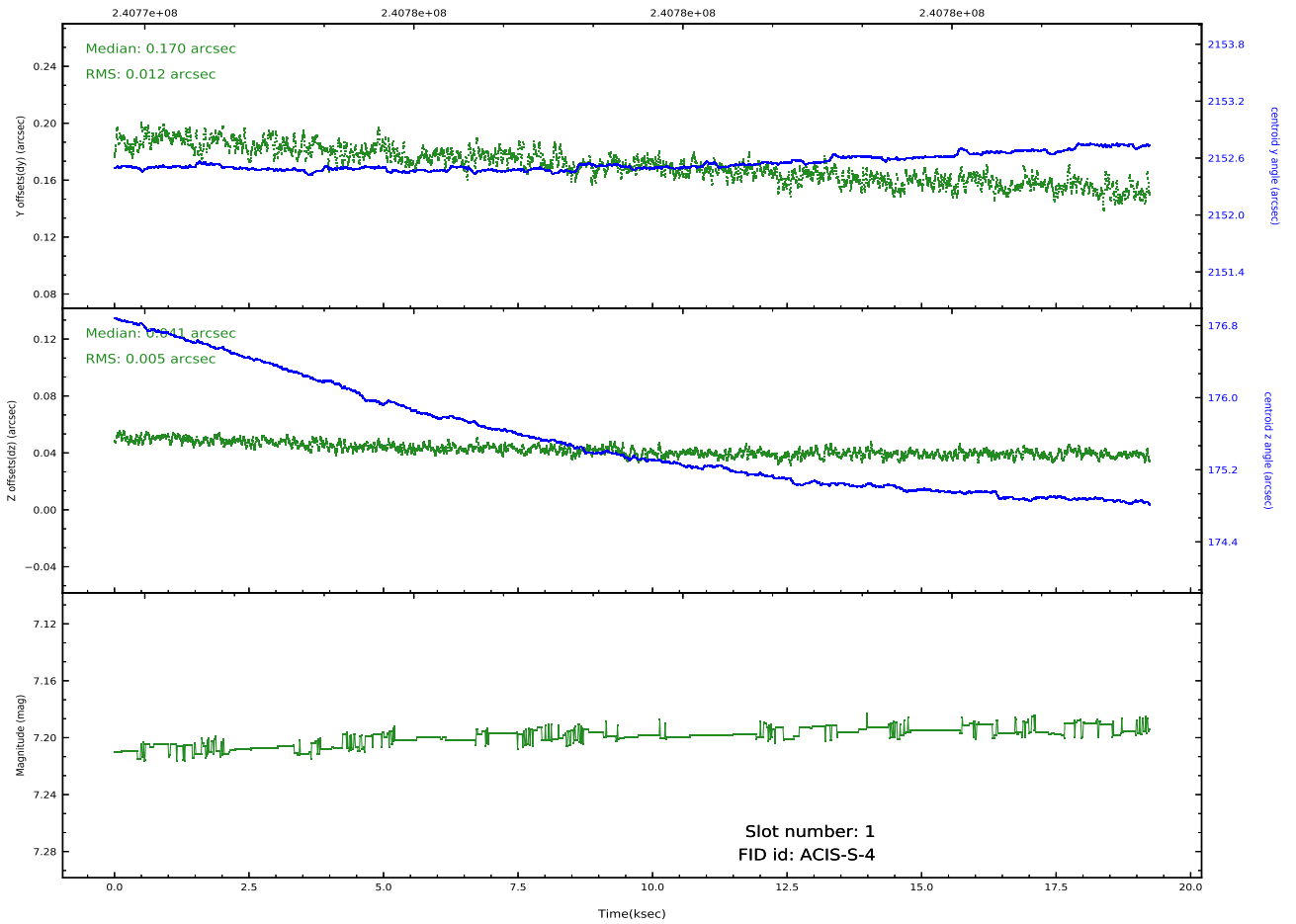
2.5.1 Slot 0



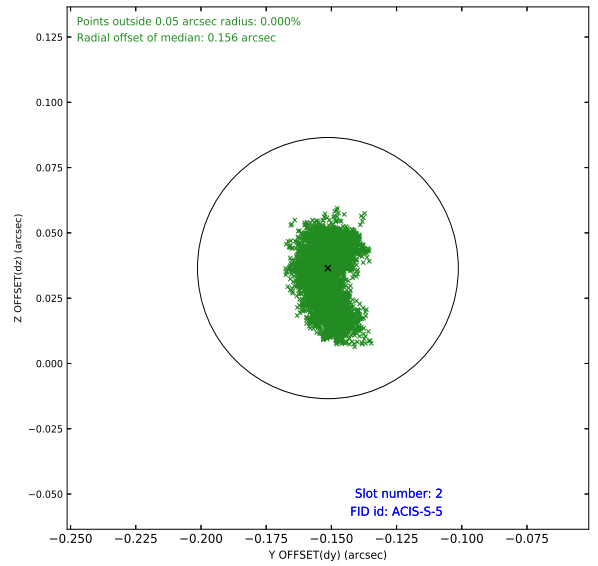
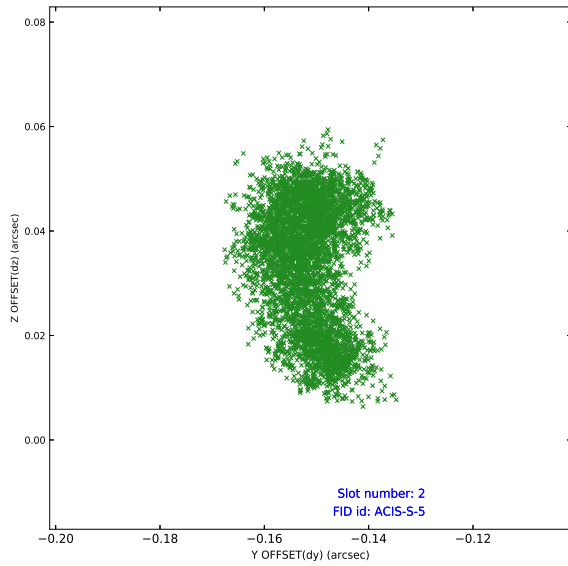
2.5.2 Slot 1



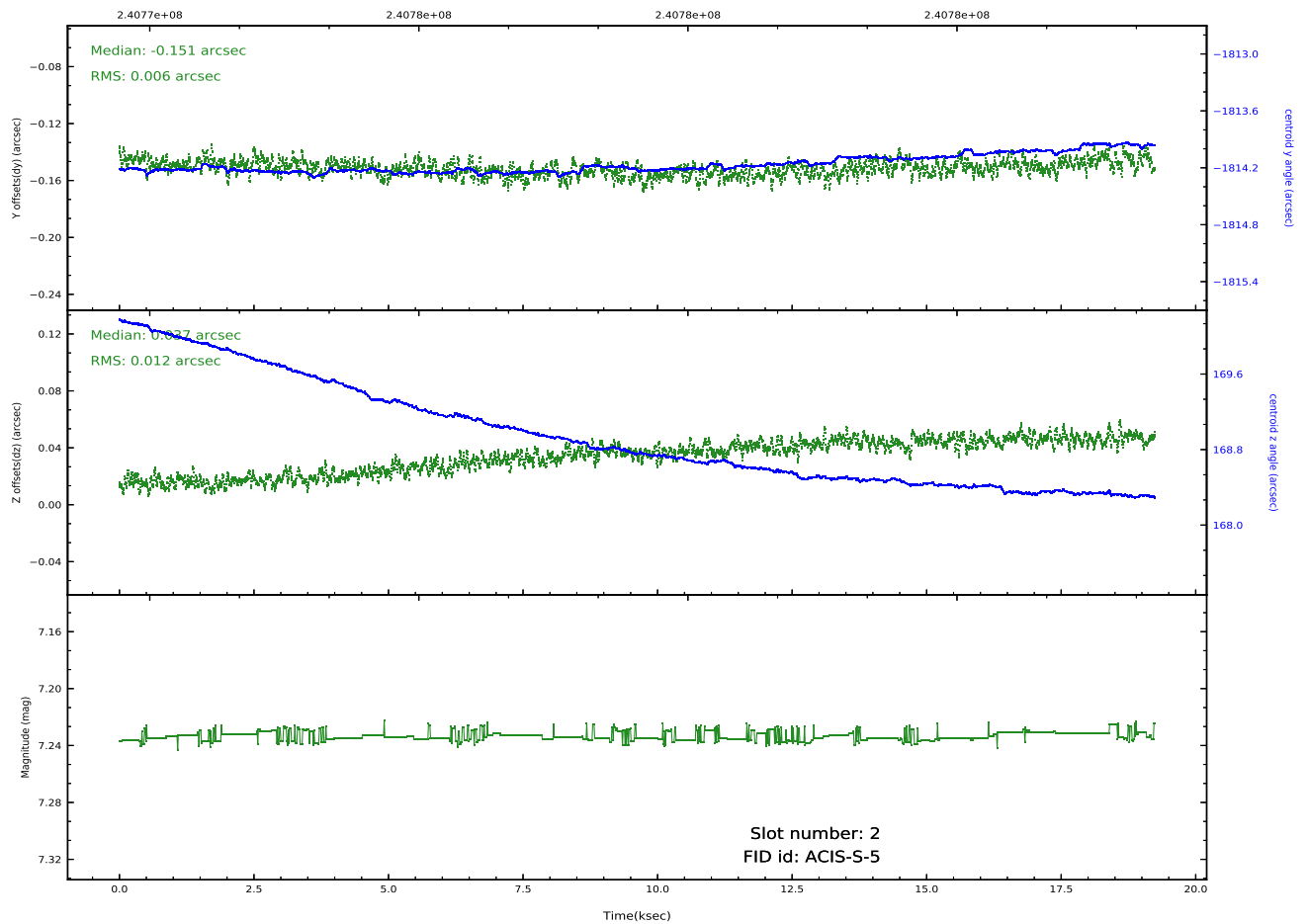
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.2404

A.2 Comments

Joint proposal with RXTE.