

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5680 - L2 Version 3
Chandra X-Ray Center

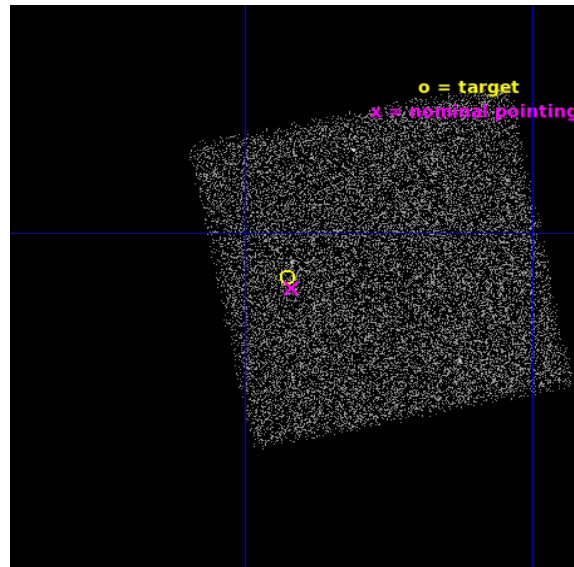
L2 Processing Date : Oct 11 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

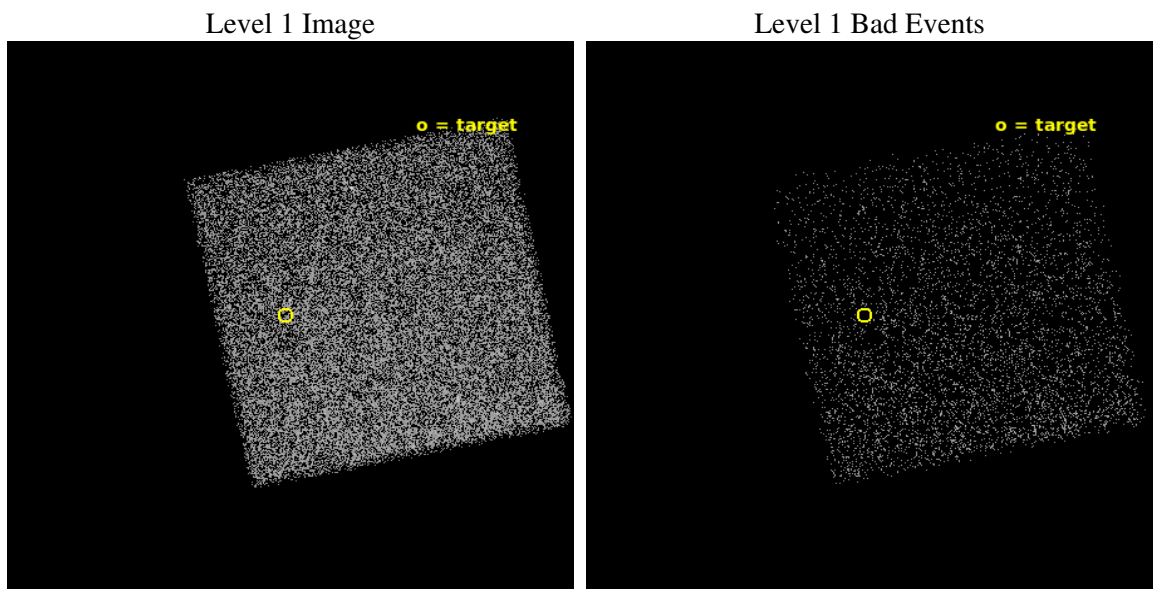
seq_num	701103	Sequence number
obs_id	5680	Observation id
title	Bringing in the Last SHEEP	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	AX J0401.4+0038	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	60.356667	Observer's specified target RA [deg]
dec_targ	0.646944	Observer's specified target Dec [deg]
ra_nom	60.354663229808	Nominal RA [deg]
dec_nom	0.64199412890847	Nominal Dec [deg]
roll_nom	348.36553731912	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5139.199980855	Sum of GTIs [s]
livetime	5074.1243362427	Livetime [s]
ontime7	5139.199980855	Sum of GTIs [s]
l2events	22185	Number of level 2 events



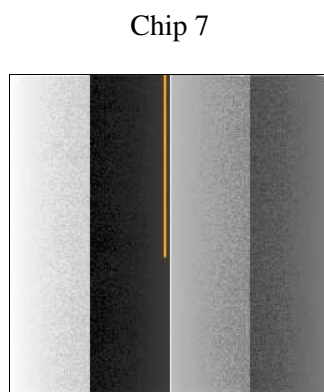
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5139.199980855	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	5139.199980855	Sum of GTIs [s]
date	2020-10-11T17:39:45	Date and time of file creation	l1events	67177	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

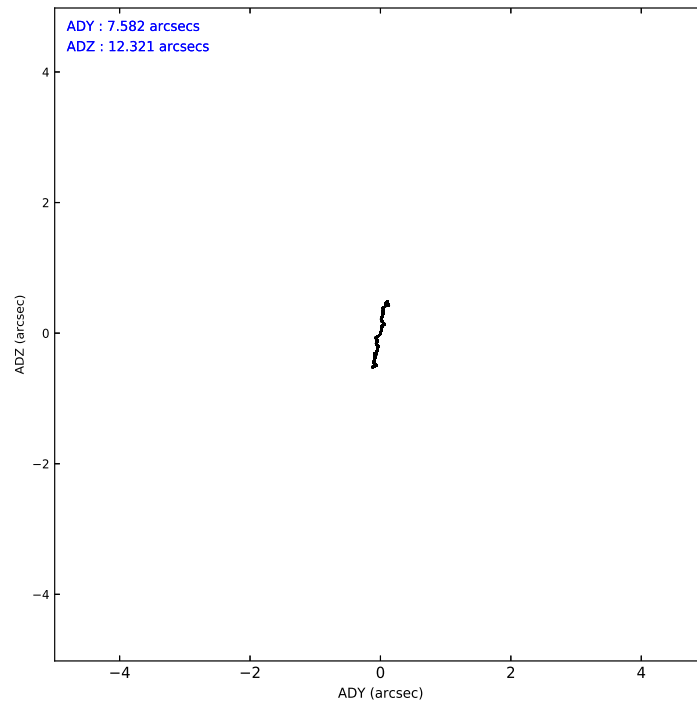
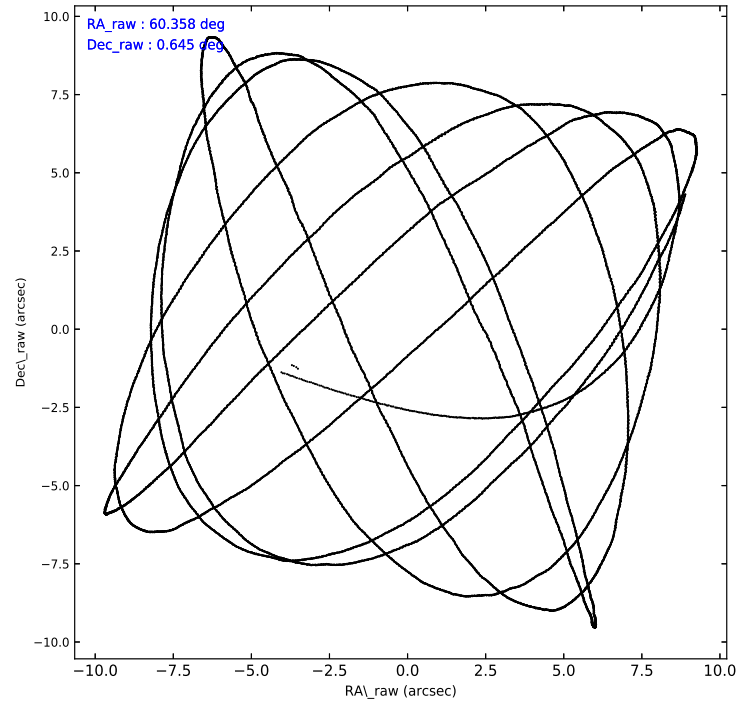
	ccd 7
level 1 events	67177
rejected events	44270
rejected %	65%

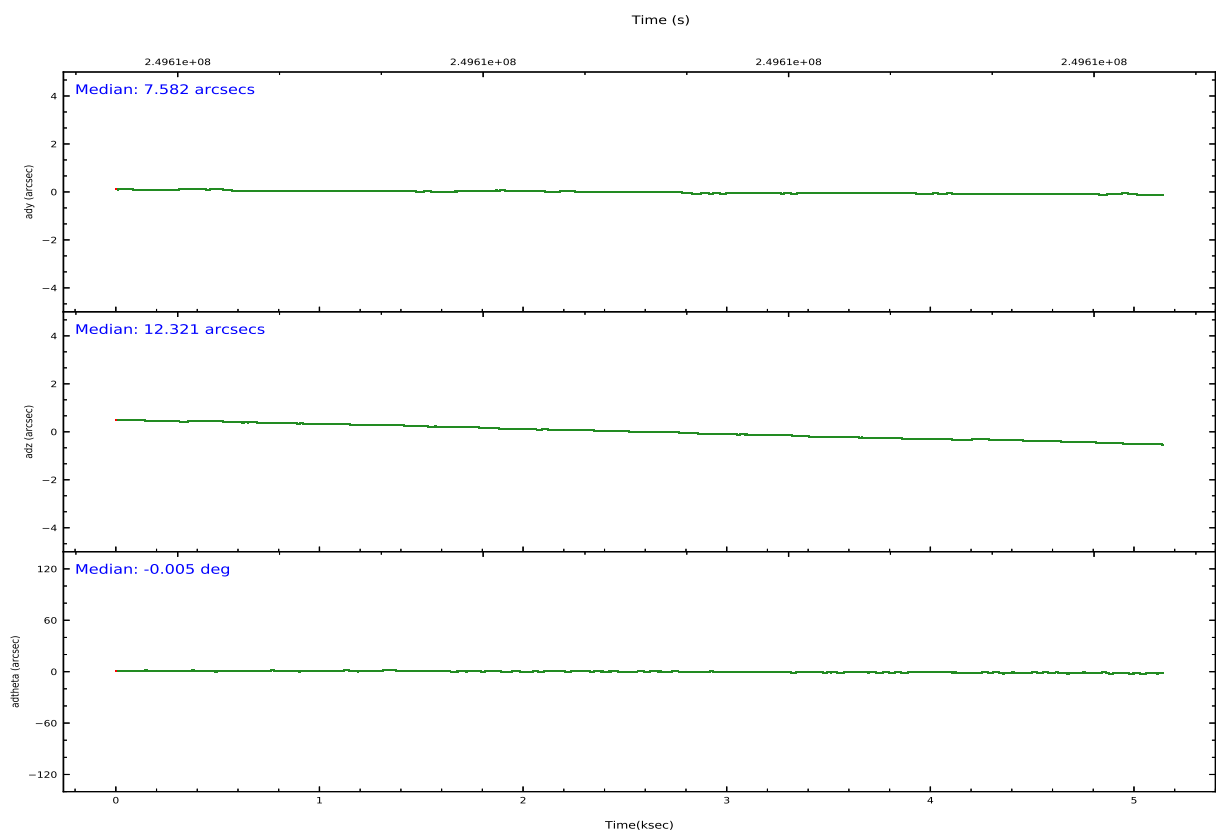
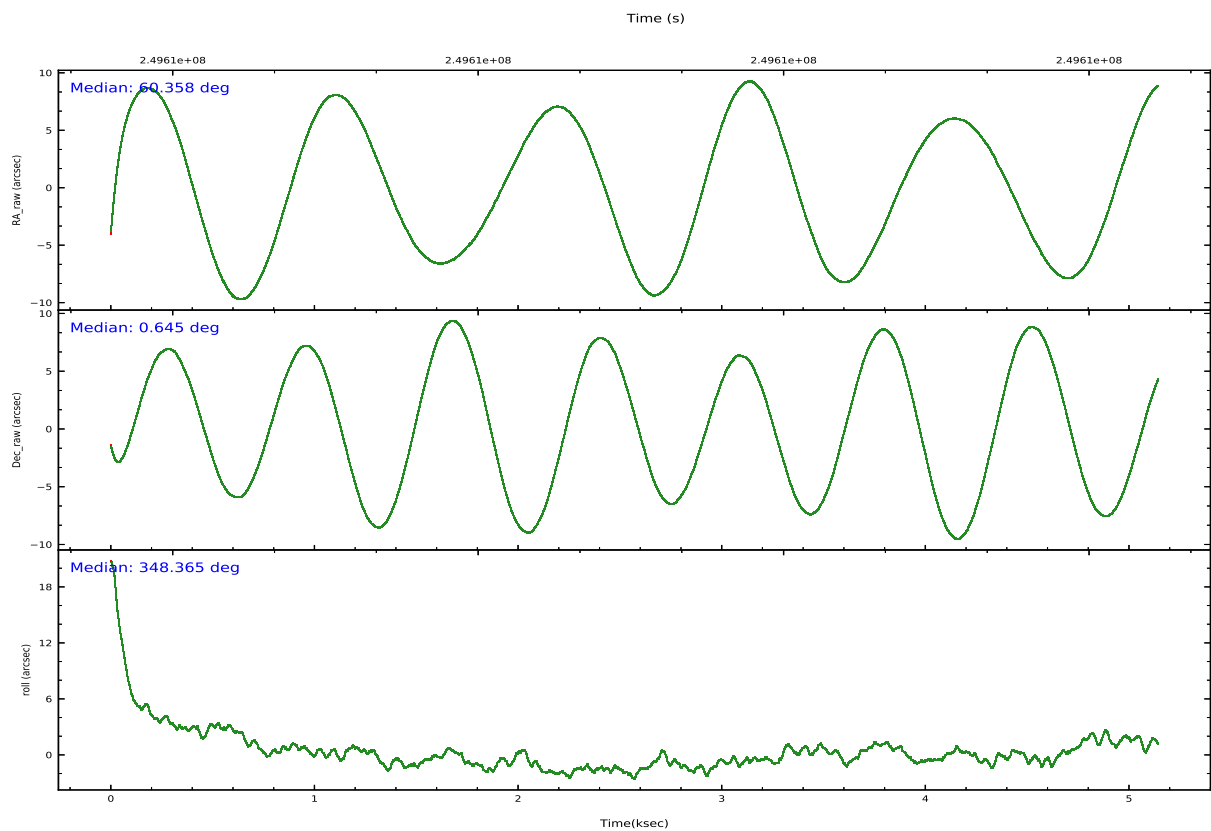
	ccd 7
grade 0 events	2453
	3%
grade 1 events	75
	0%
grade 2 events	5522
	8%
grade 3 events	2489
	3%
grade 4 events	2503
	3%
grade 5 events	6307
	9%
grade 6 events	15177
	22%
grade 7 events	32651
	48%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	60.331821	60.354663229808	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.636122	0.64199412890847	Alternating exposures requested	N	N
[deg] Pointing Roll	348.210078	348.36553731912	[s] Primary exposure time	0.000000	3.2
[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)	249608340.184000	249607011.50891			
Observation start date	2005-11-28T23:37:56	2005-11-28T23:16:51			
[s] Observation end time (MET)	249613340.184000	249614538.59676			
Observation end date	2005-11-29T01:01:16	2005-11-29T01:22:18			
Read mode	TIMED	TIMED			

2.3 Aspect



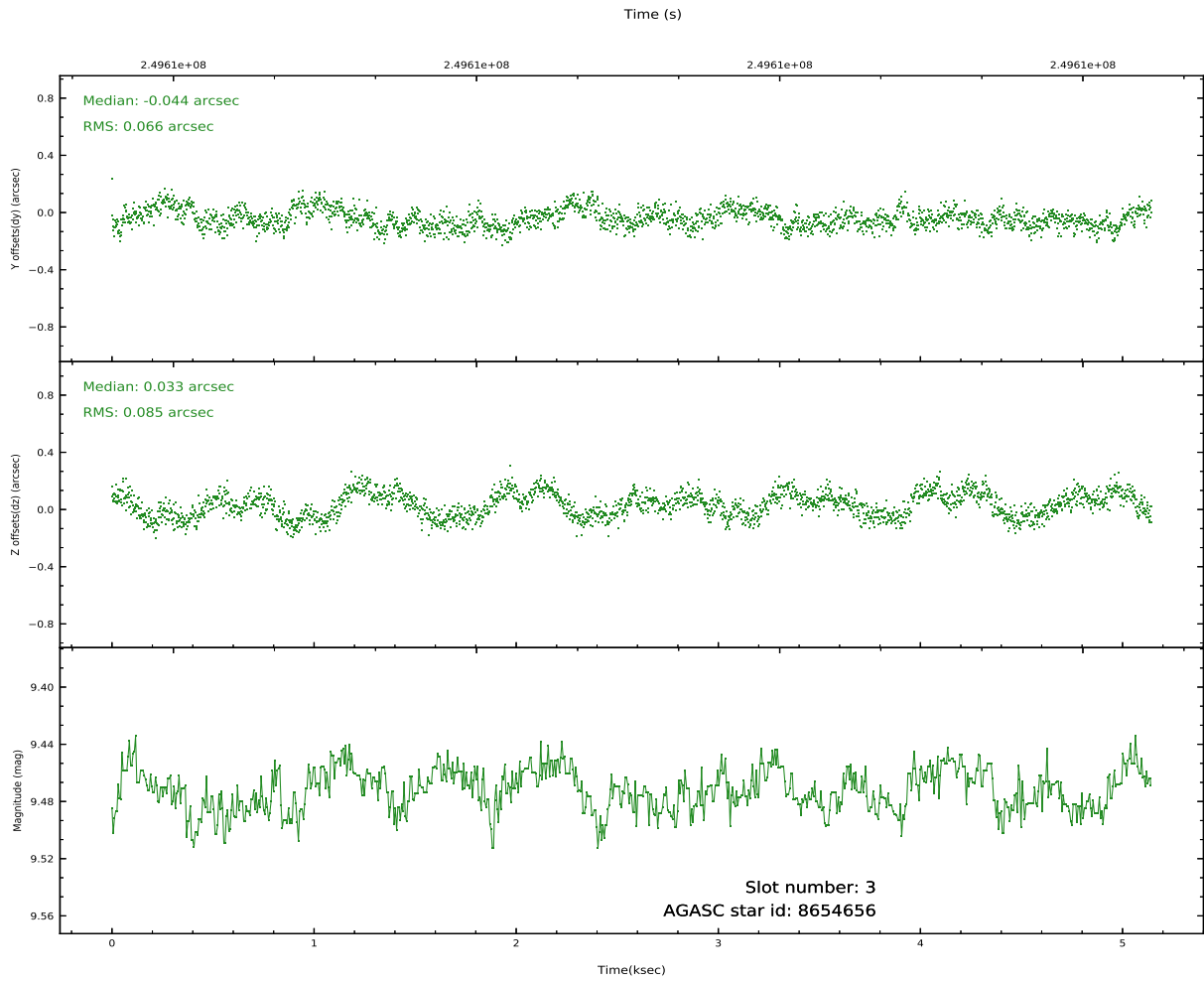
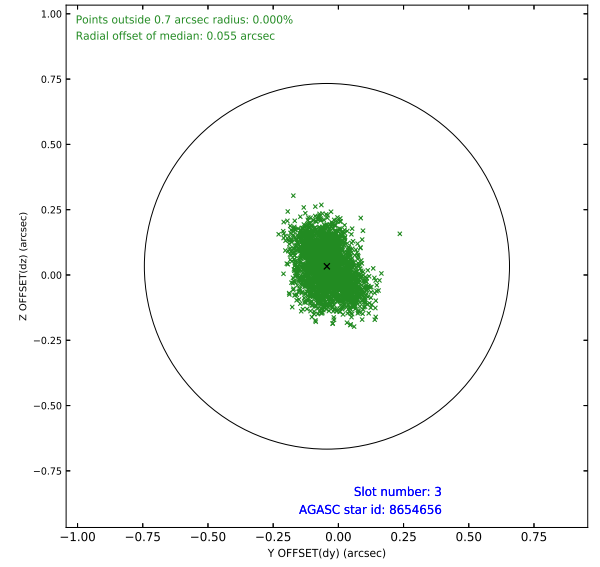
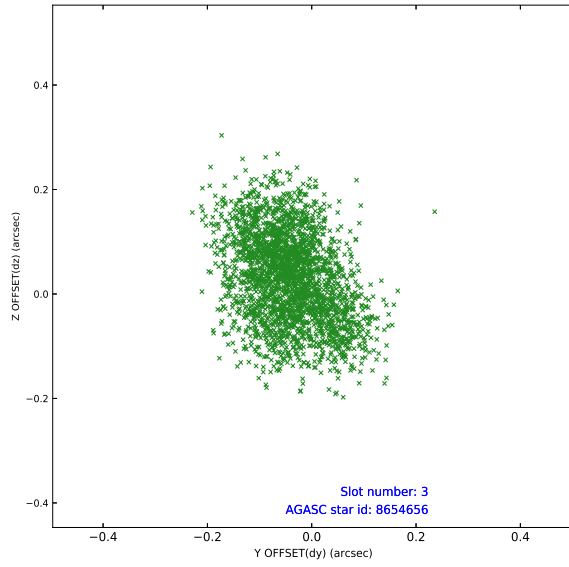


Slot Statistics

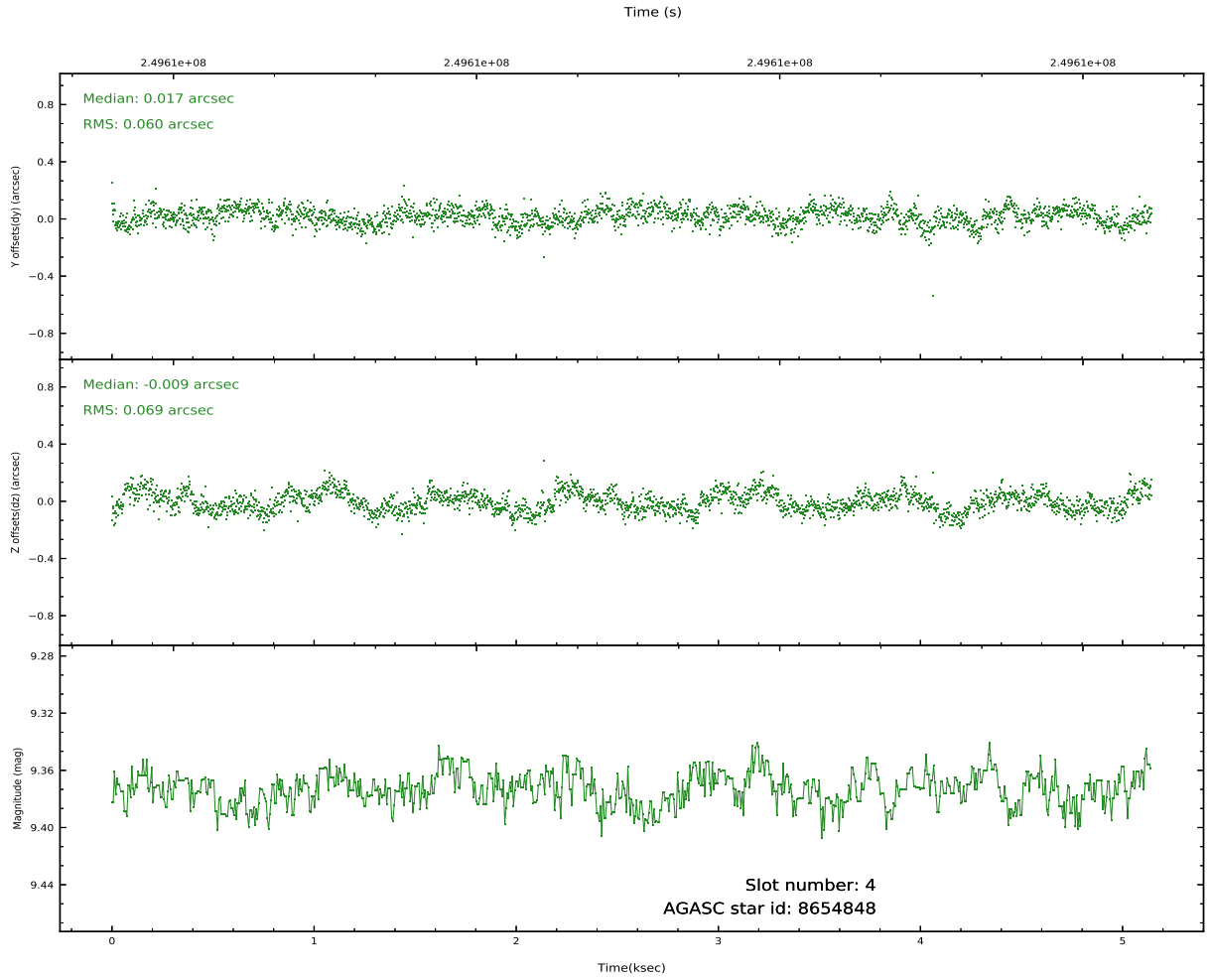
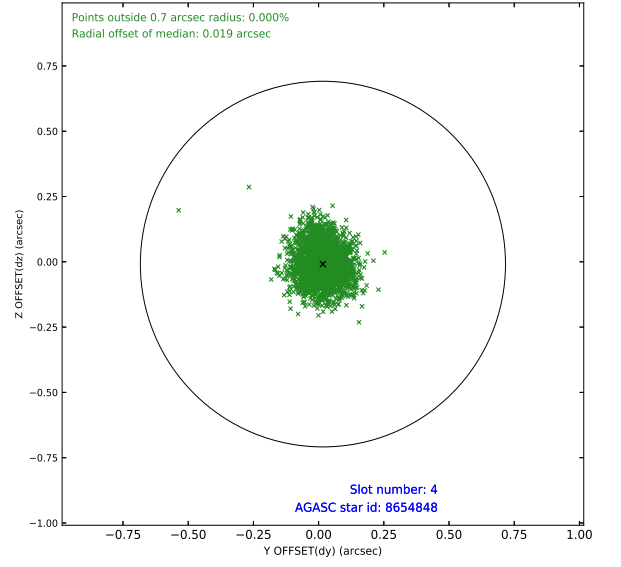
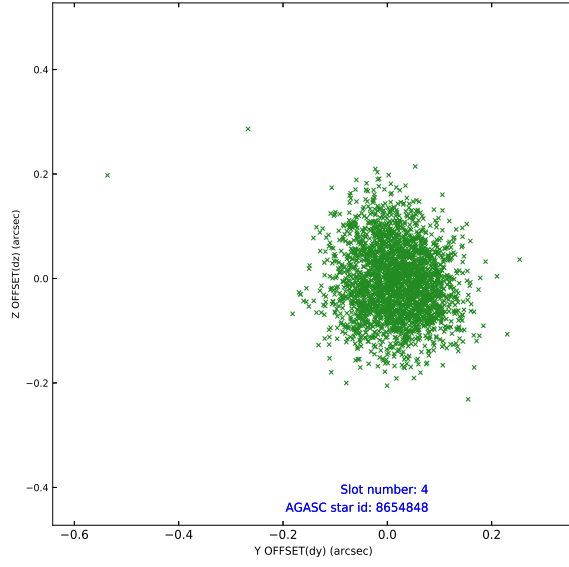
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1255	1.000	-0.042	-0.069	0.011	0.017	0.000000	0.000000	-760.36	-1733
1	FID		ACIS-S-4	7.20	1254	1.000	0.136	0.038	0.006	0.011	0.000000	0.000000	2152.54	173
2	FID		ACIS-S-5	7.23	1255	1.000	-0.125	0.039	0.011	0.018	0.000000	0.000000	-1811.79	168
3	GUIDE	used	8654656	9.47	2509	1.000	-0.044	0.033	0.117	0.182	59.897796	1.127420	-1890.58	1412
4	GUIDE	used	8654848	9.37	2510	1.000	0.017	-0.009	0.097	0.156	59.806200	0.958082	-2089.40	748
5	GUIDE	used	9574320	8.57	2510	1.000	0.023	0.050	0.064	0.106	60.554993	0.080695	1194.93	-1792
6	GUIDE	used	619319440	8.96	2509	1.000	0.049	-0.036	0.080	0.131	60.745170	-0.063271	1972.41	-2160
7	GUIDE	used	9574928	9.36	2505	1.000	-0.043	-0.029	0.104	0.174	60.580390	0.067478	1295.72	-1821

2.4 Star Slots

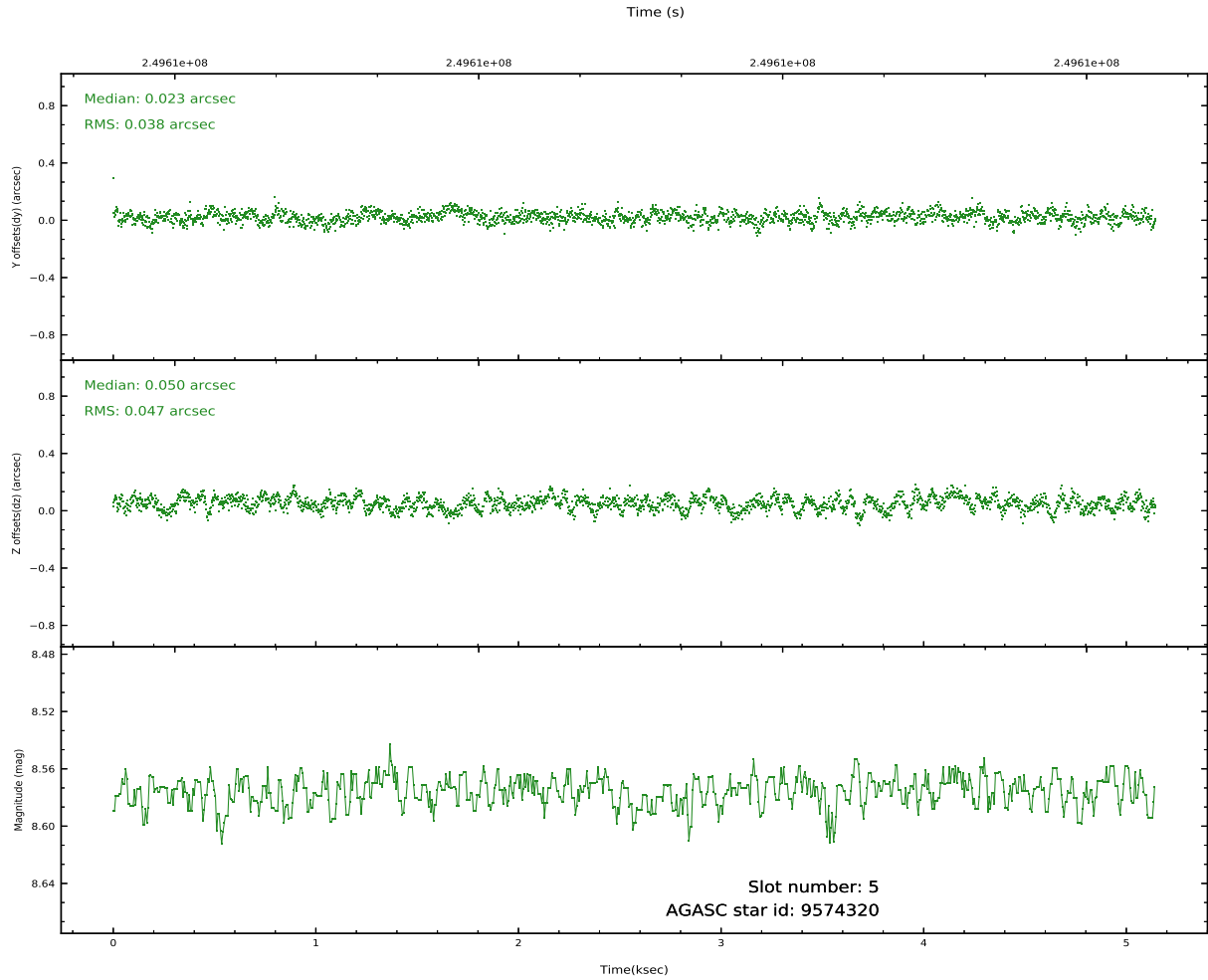
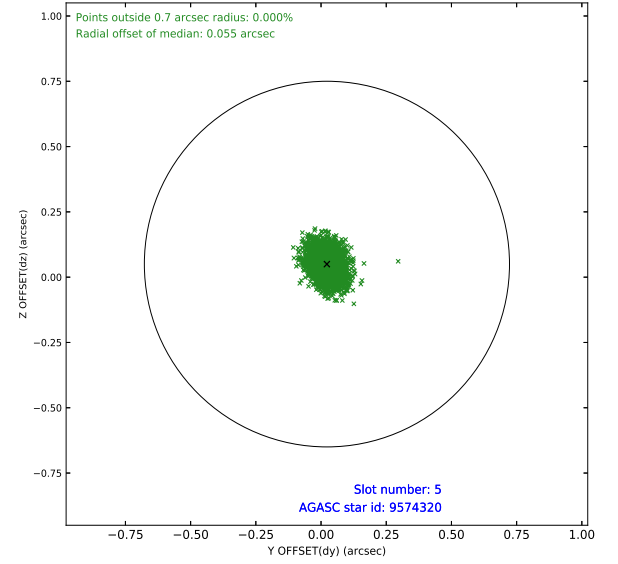
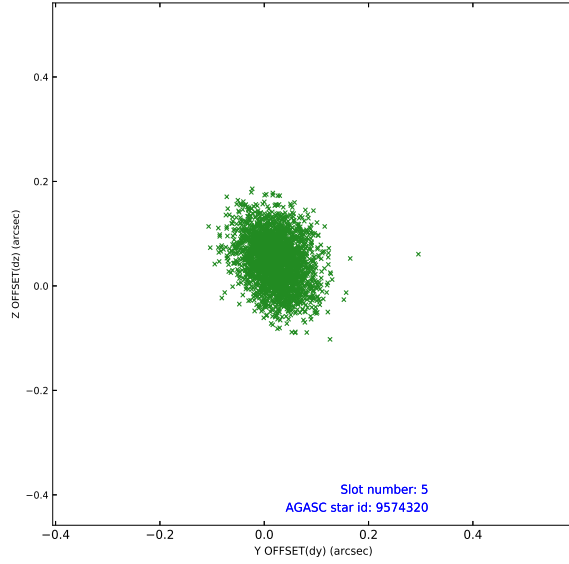
2.4.1 Slot 3



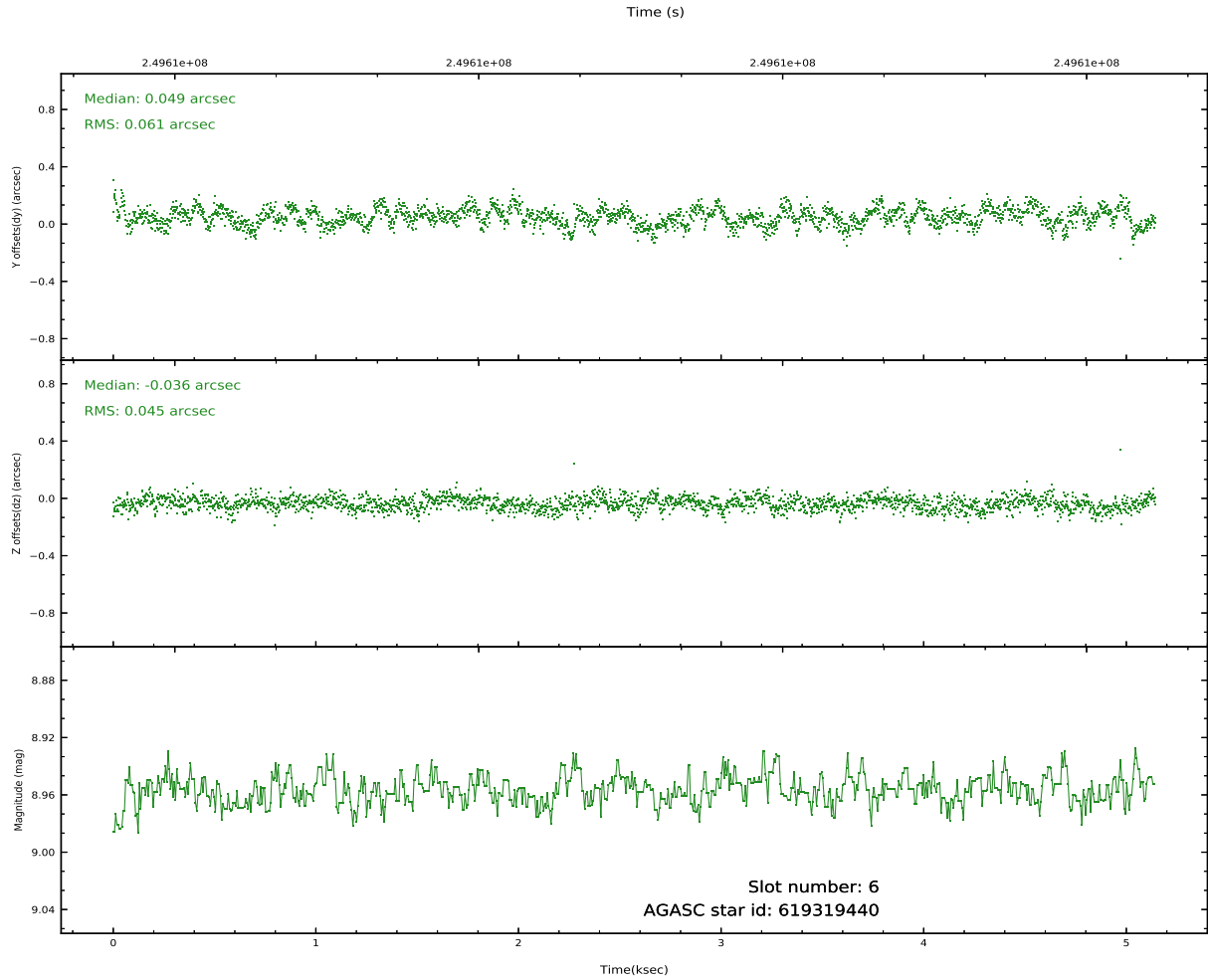
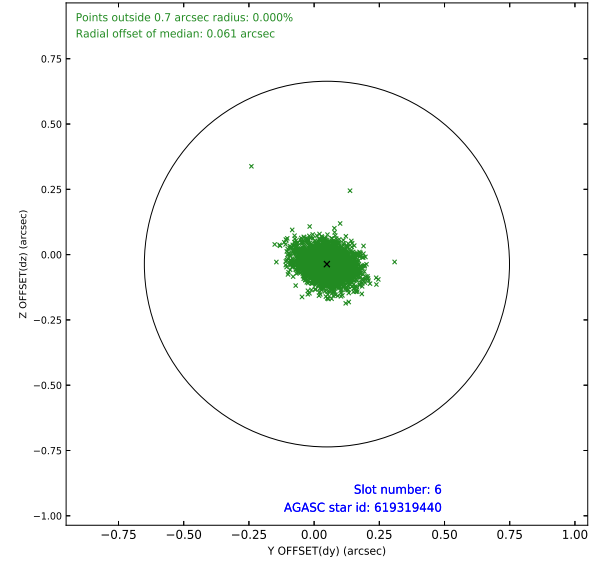
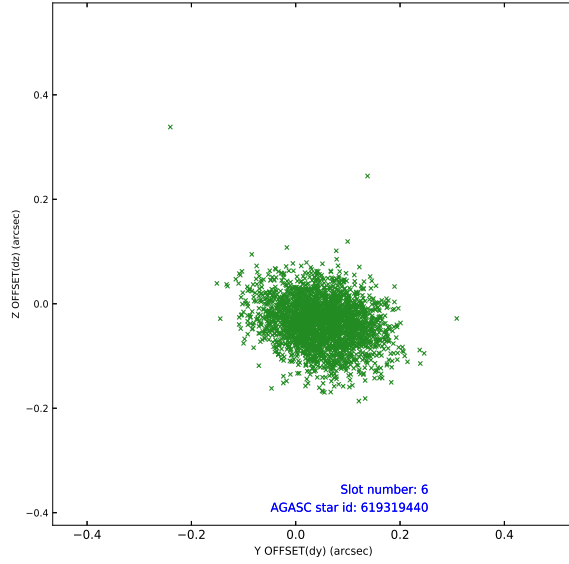
2.4.2 Slot 4



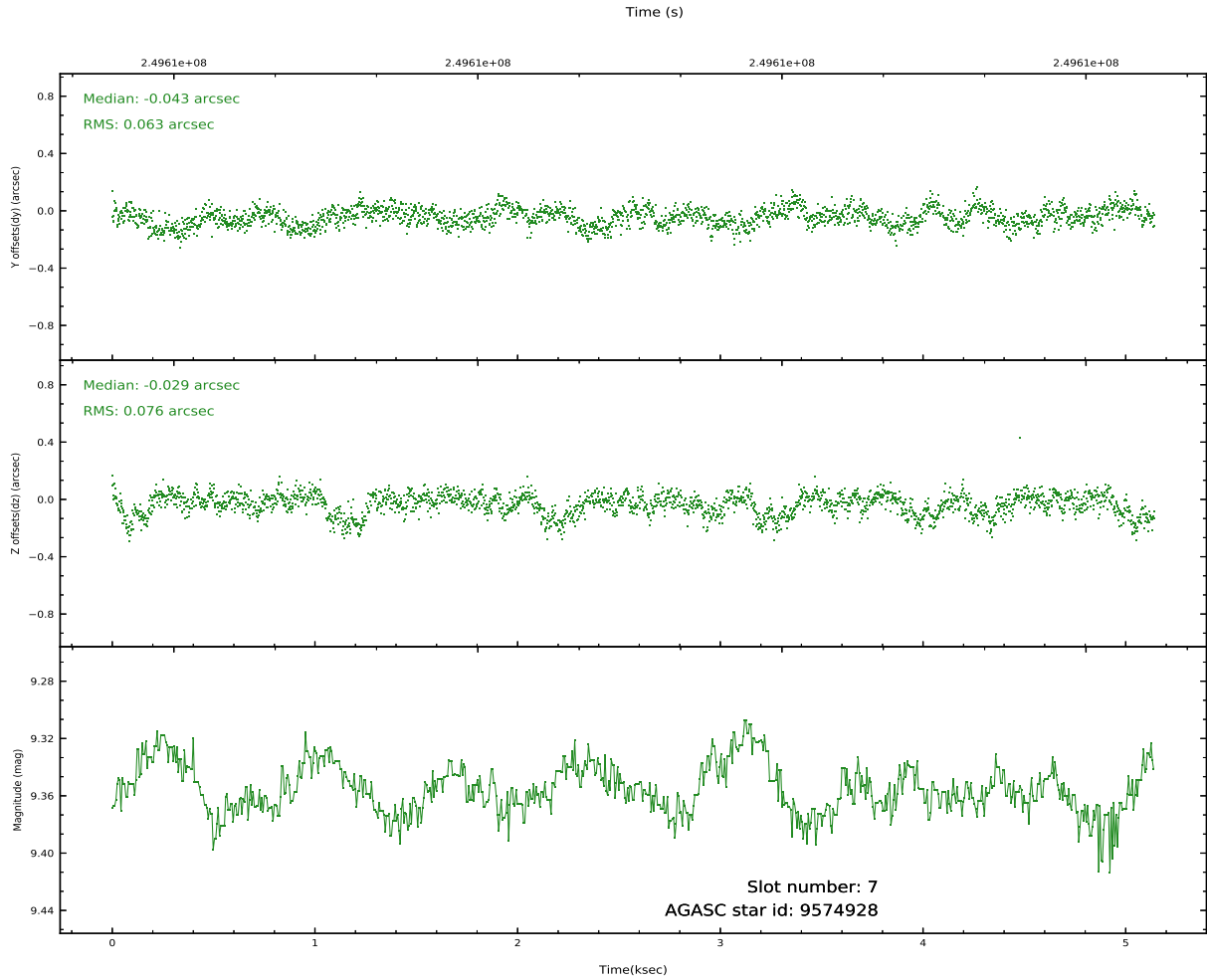
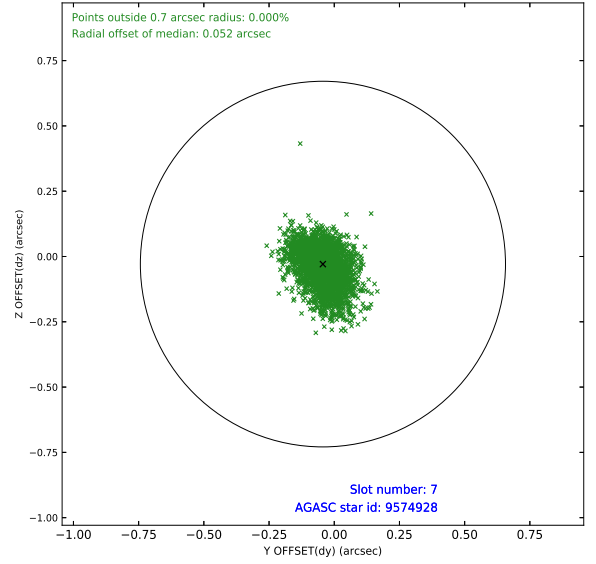
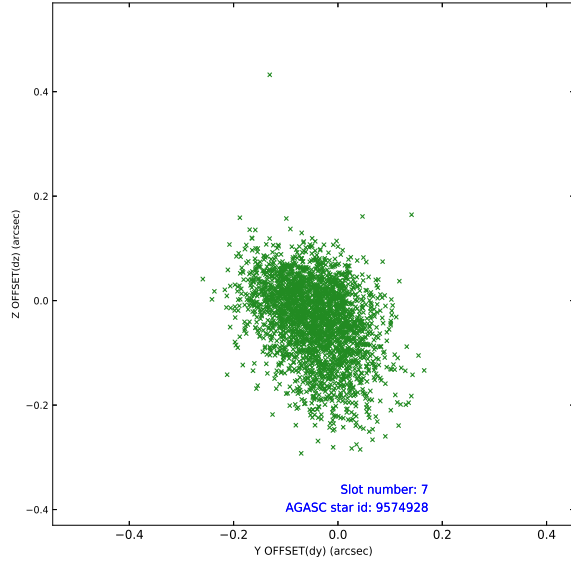
2.4.3 Slot 5



2.4.4 Slot 6

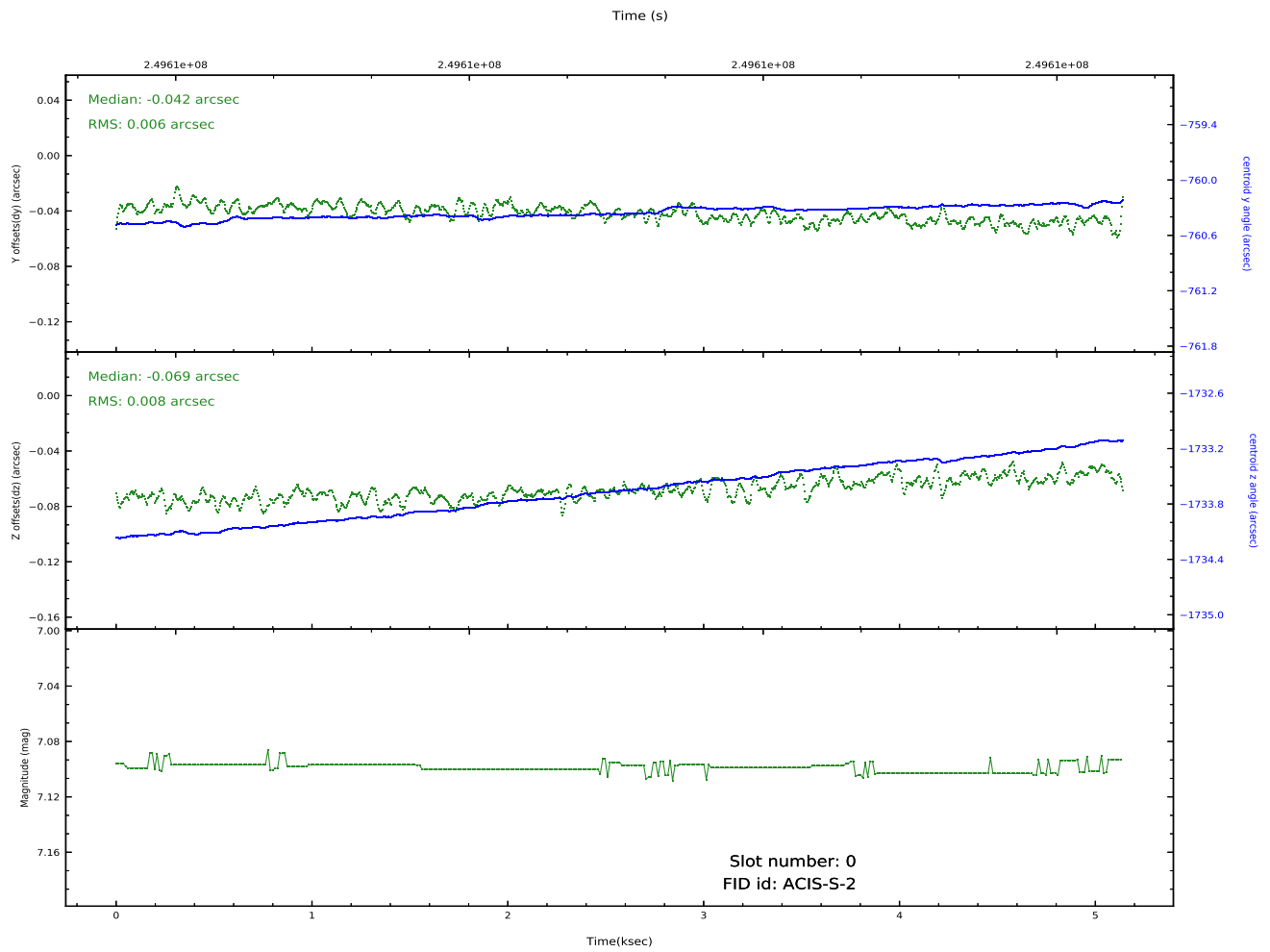
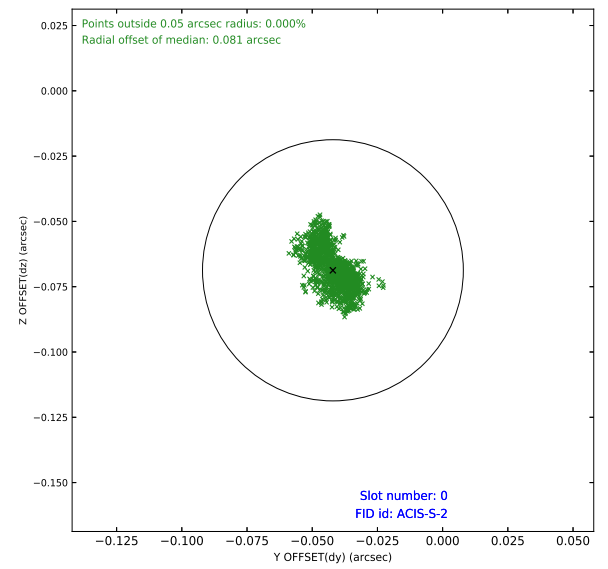
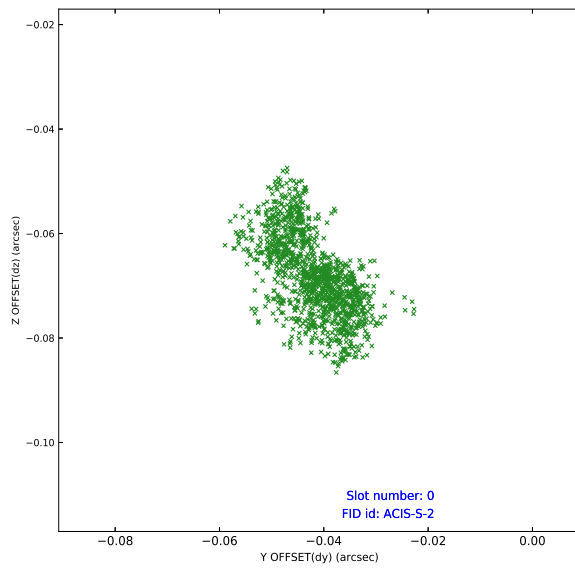


2.4.5 Slot 7

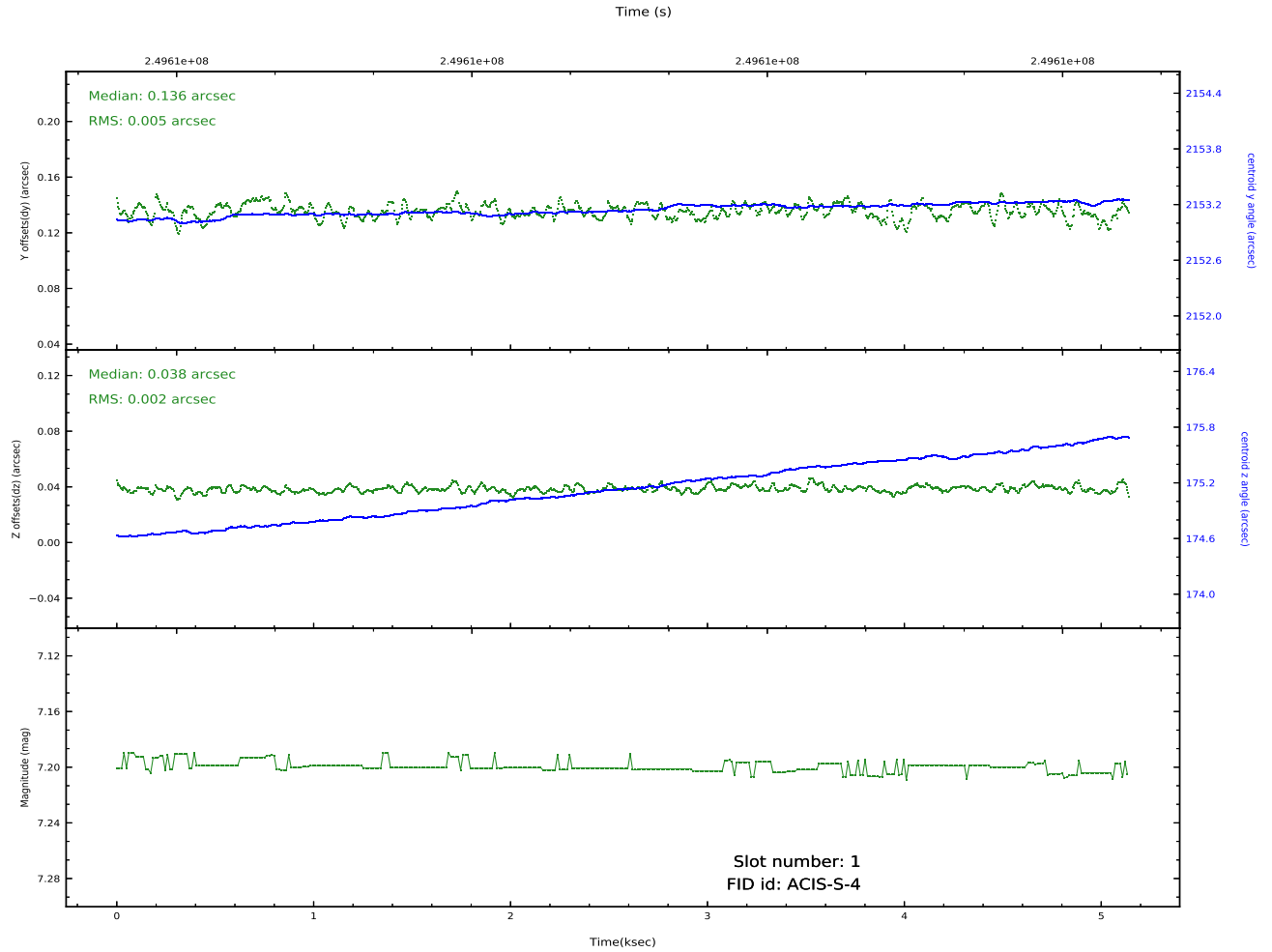
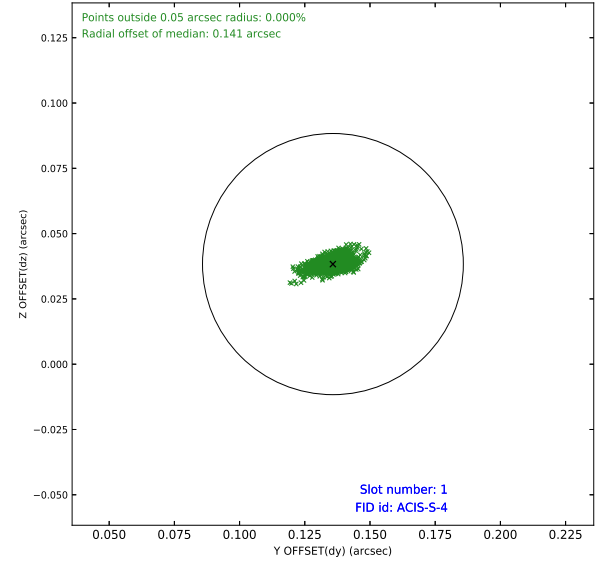
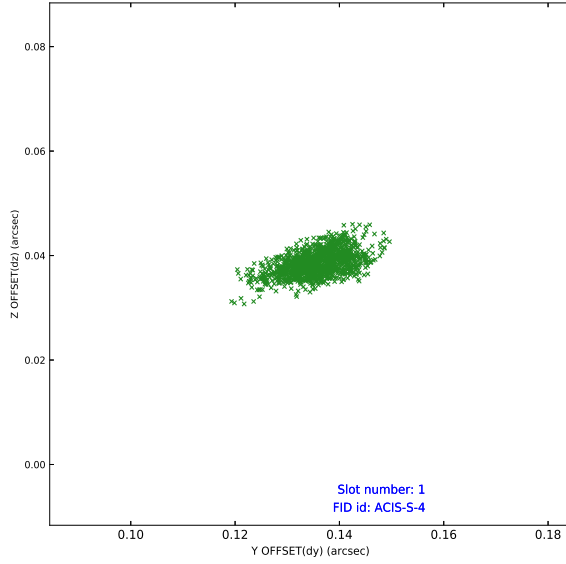


2.5 FID Slots

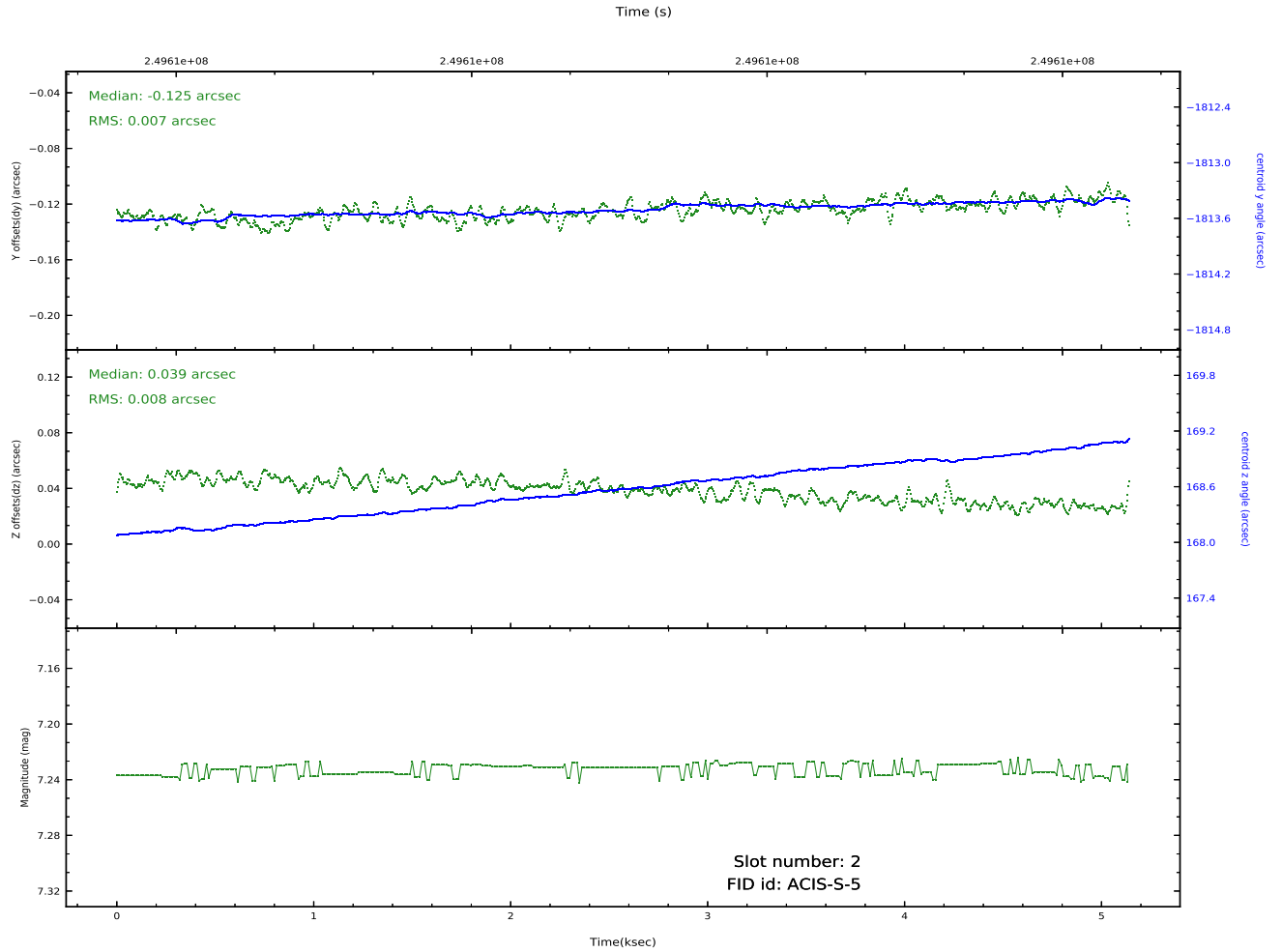
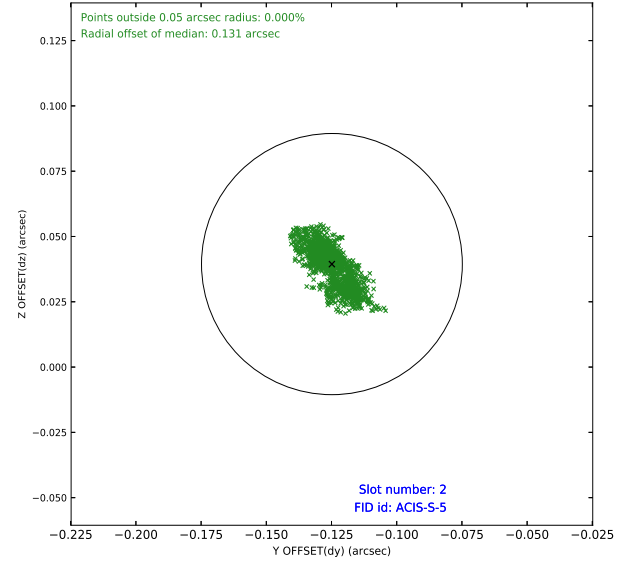
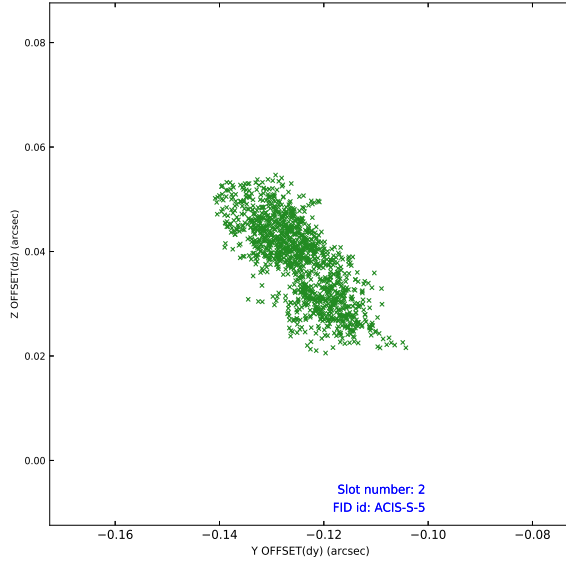
2.5.1 Slot 0



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)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.139199

A.2 Comments

Joint proposal with NOAO.