

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4872 - L2 Version 4
Chandra X-Ray Center

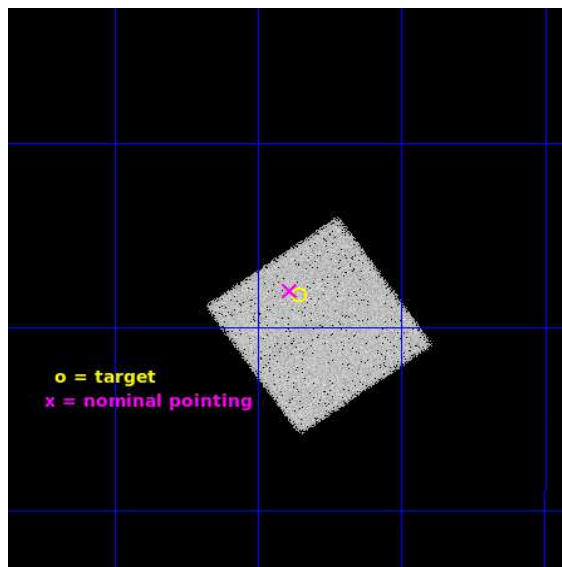
L2 Processing Date : Oct 7 2020

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

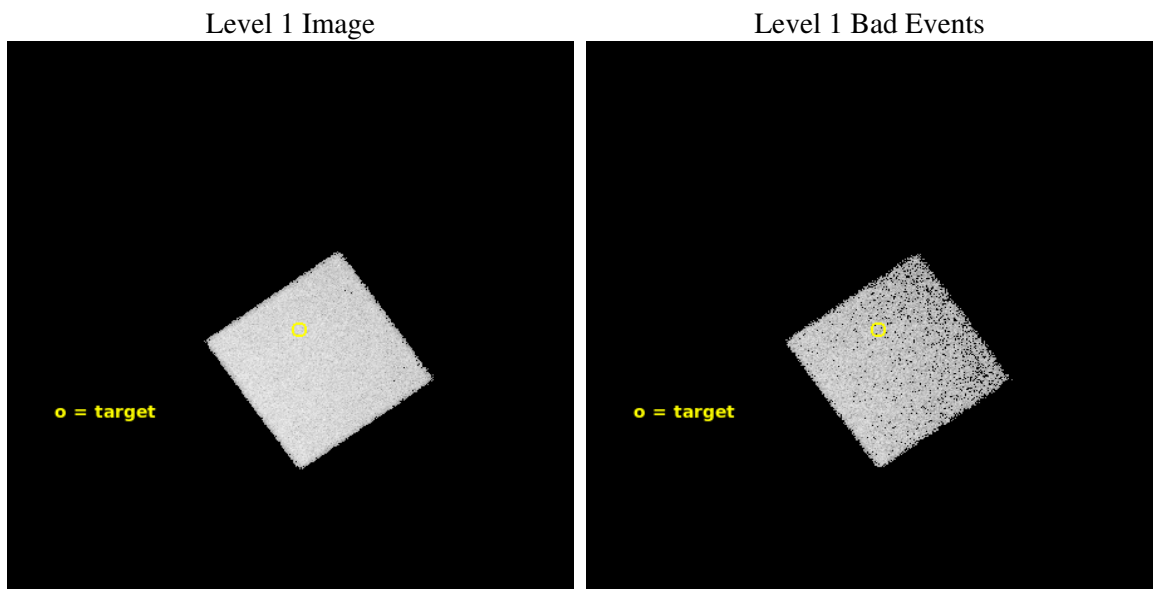
seq_num	700954	Sequence number
obs_id	4872	Observation id
title	UNCOVERING THE HIDDEN POPULATION OF BL LACS	Proposal title
observer	Dr Nicola Loaring	Principal investigator
object	2QZ J114221.4-014812	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	175.589167	Observer's specified target RA [deg]
dec_targ	-1.803389	Observer's specified target Dec [deg]
ra_nom	175.5970733703	Nominal RA [deg]
dec_nom	-1.8001531796489	Nominal Dec [deg]
roll_nom	54.745679680349	Nominal Roll [deg]
revision	4	Processing version of data
ontime	15174.0	Sum of GTIs [s]
livetime	14969.221055955	Livetime [s]
ontime7	15174.0	Sum of GTIs [s]
l2events	60716	Number of level 2 events



2 OBI

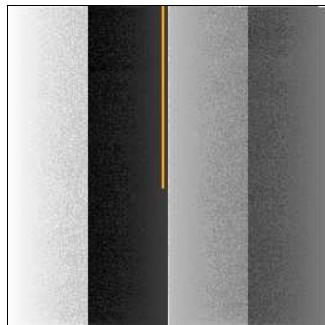
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	15174.0	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	15174.0	Sum of GTIs [s]
date	2020-10-07T03:45:20	Date and time of file creation	l1events	160617	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

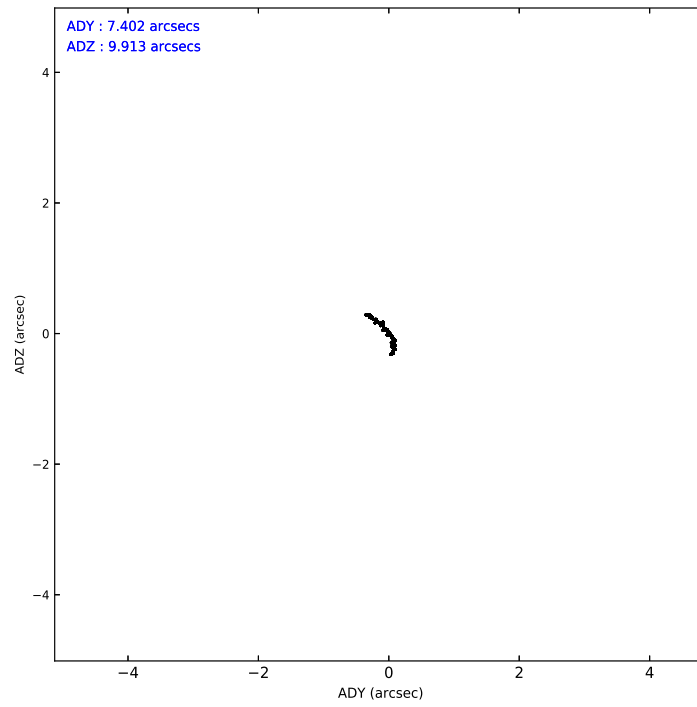
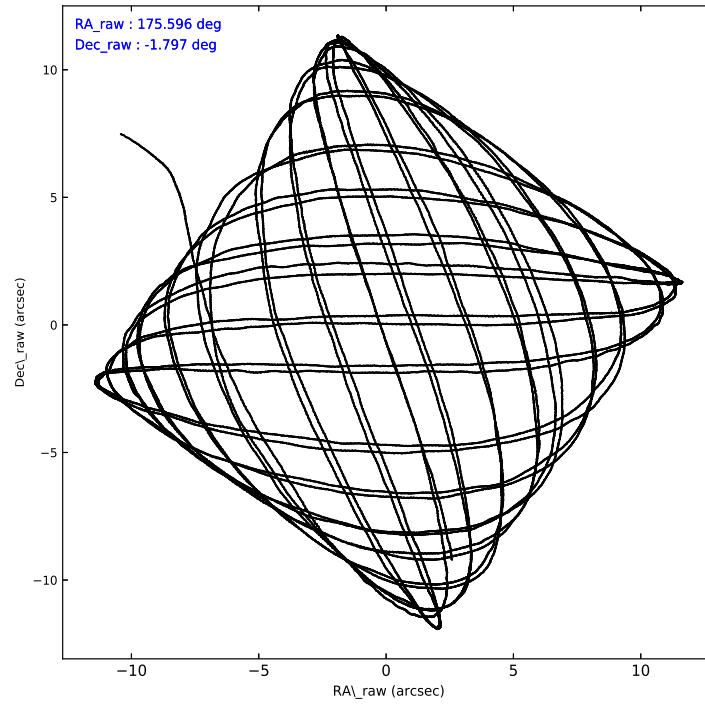
	ccd 7
level 1 events	160617
rejected events	98047
rejected %	61%

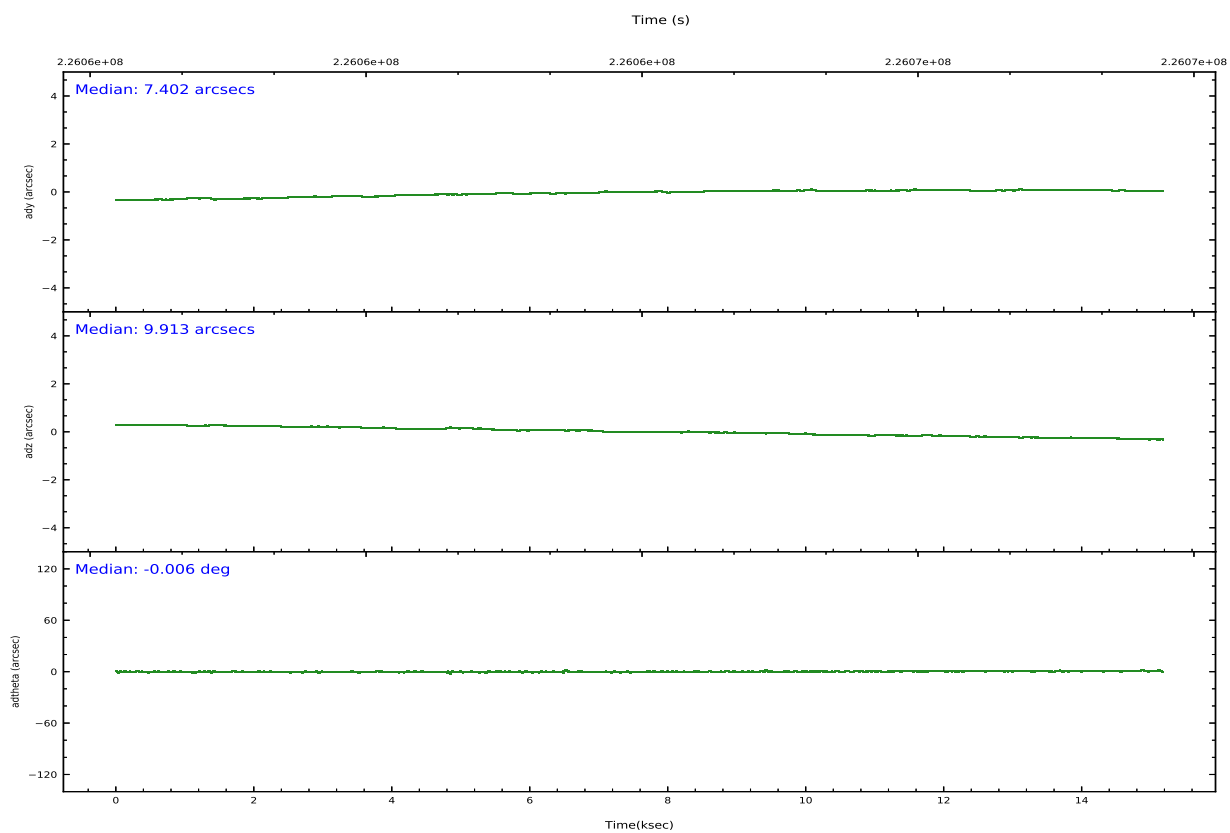
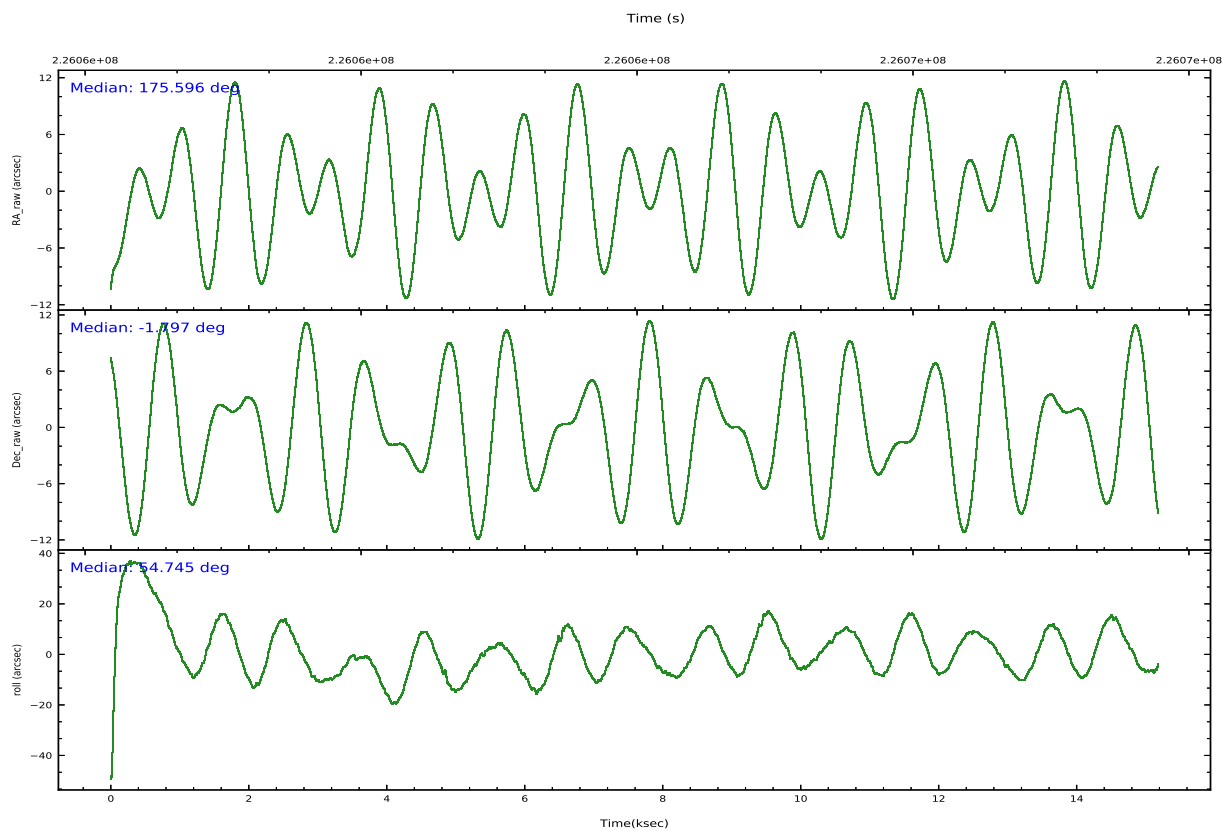
	ccd 7
grade 0 events	5948
	3%
grade 1 events	139
	0%
grade 2 events	13344
	8%
grade 3 events	6002
	3%
grade 4 events	5935
	3%
grade 5 events	15500
	9%
grade 6 events	35670
	22%
grade 7 events	78079
	48%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	175.593917	175.5970733703	Subarray requested	NONE	NONE
[deg] Pointing Dec	-1.823747	-1.8001531796489	Alternating exposures requested	N	N
[deg] Pointing Roll	54.582627	54.745679680349	[s] Primary exposure time	0.000000	3
[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)	226056554.184000	226055315.8563			
Observation start date	2005-03-01T09:28:10	2005-03-01T09:08:35			
[s] Observation end time (MET)	226071554.184000	226072039.24456			
Observation end date	2005-03-01T13:38:10	2005-03-01T13:47:19			
Read mode	TIMED	TIMED			

2.3 Aspect



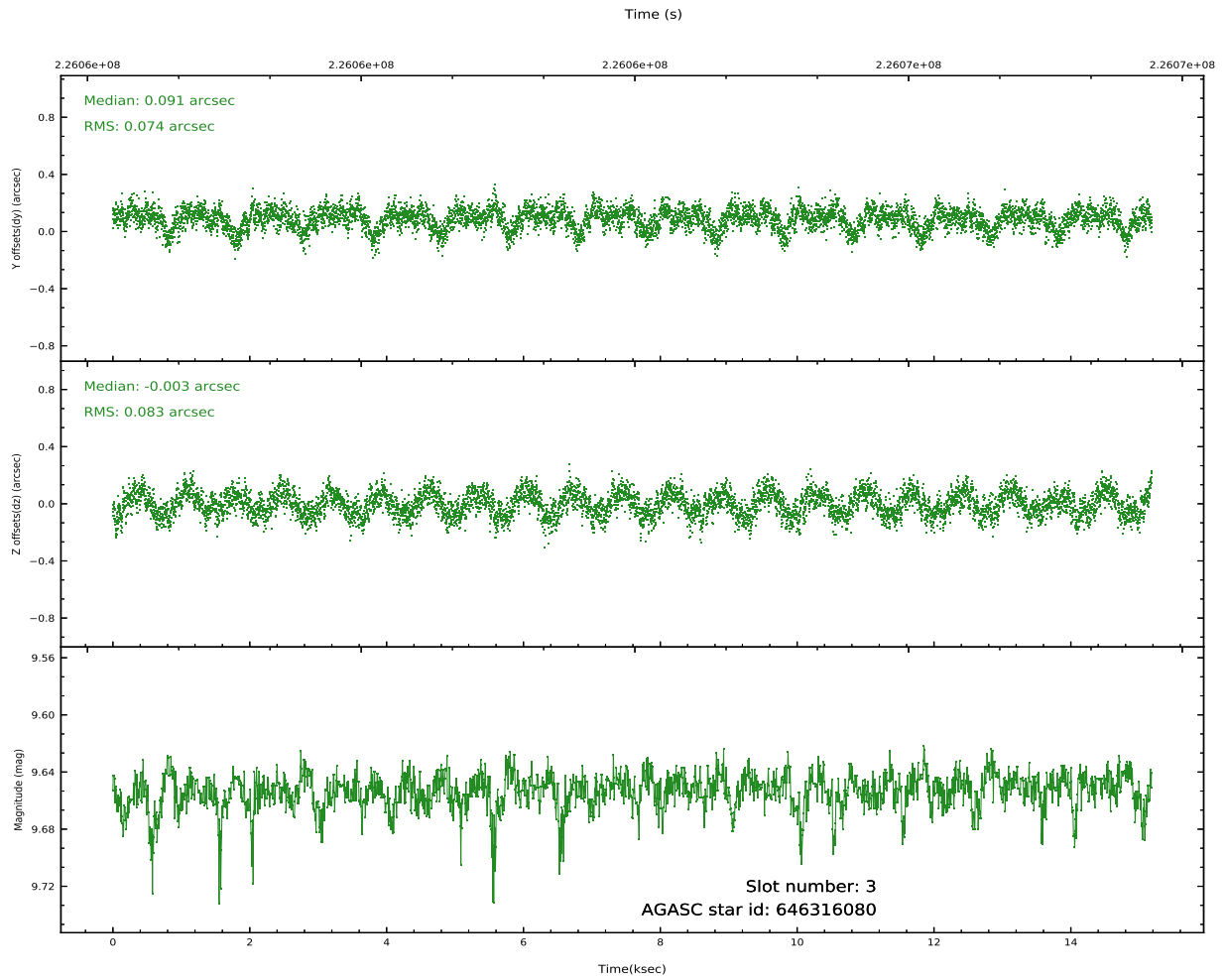
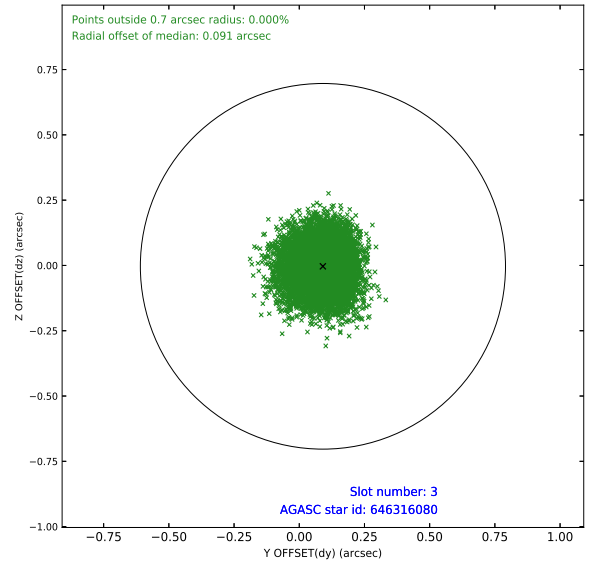
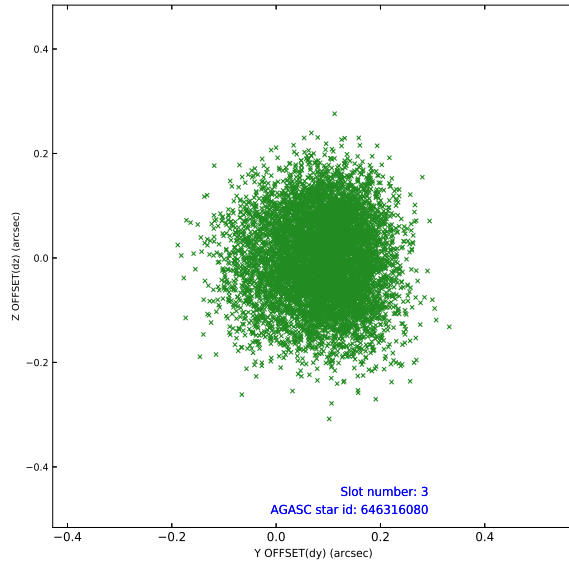


Slot Statistics

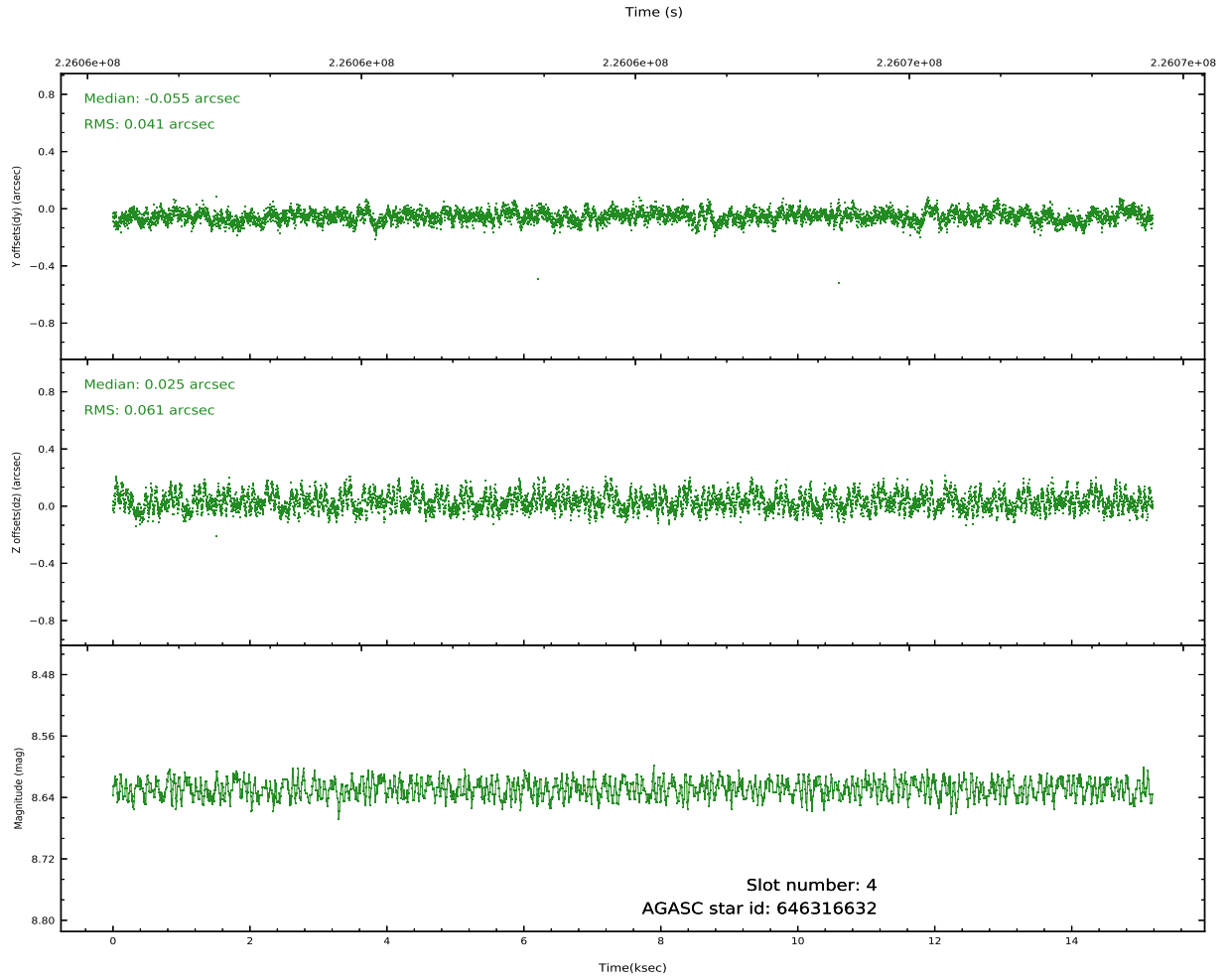
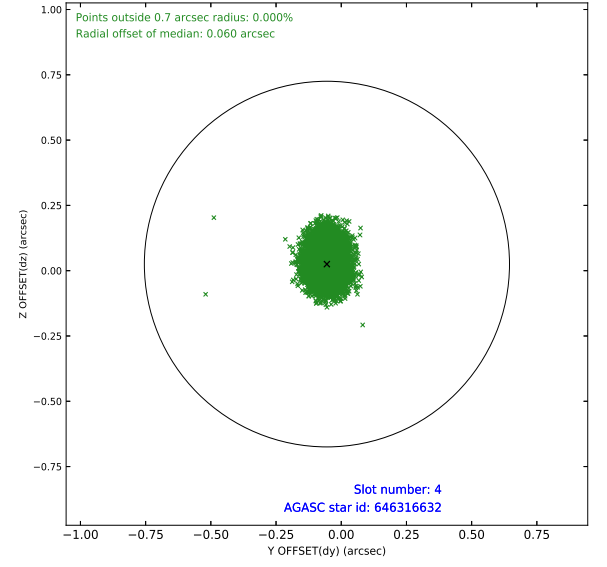
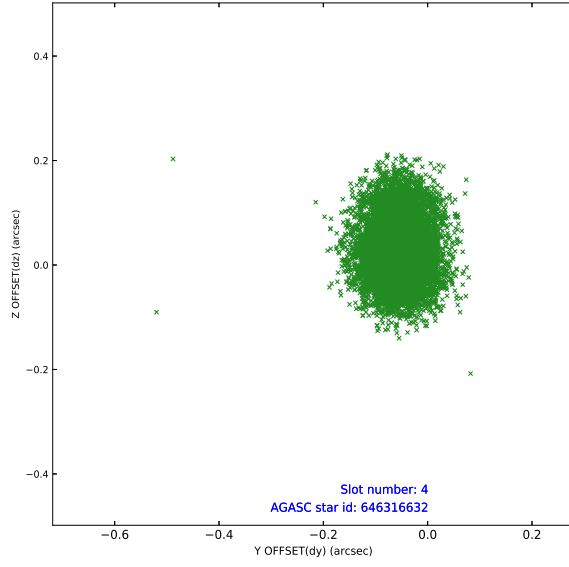
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	3703	1.000	-0.076	-0.062	0.009	0.015	0.000000	0.000000	-760.12	-1731
1	FID		ACIS-S-4	7.20	3703	1.000	0.155	0.053	0.006	0.011	0.000000	0.000000	2153.19	177
2	FID		ACIS-S-5	7.23	3703	1.000	-0.109	0.017	0.009	0.016	0.000000	0.000000	-1812.68	170
3	GUIDE	used	646316080	9.65	7397	1.000	0.091	-0.003	0.120	0.188	175.658524	-2.434808	-1657.20	-1464
4	GUIDE	used	646316632	8.63	7405	1.000	-0.055	0.025	0.078	0.125	175.959380	-2.346916	-772.67	-2162
5	GUIDE	used	646322952	9.77	7393	1.000	0.147	-0.109	0.140	0.227	175.354154	-1.823942	-500.12	702
6	GUIDE	used	646323408	9.56	7383	1.000	-0.115	0.187	0.133	0.216	176.217373	-2.038376	670.54	-2275
7	GUIDE	used	646324808	8.39	7400	1.000	-0.061	-0.108	0.059	0.095	175.125728	-1.837660	-1016.59	1343

2.4 Star Slots

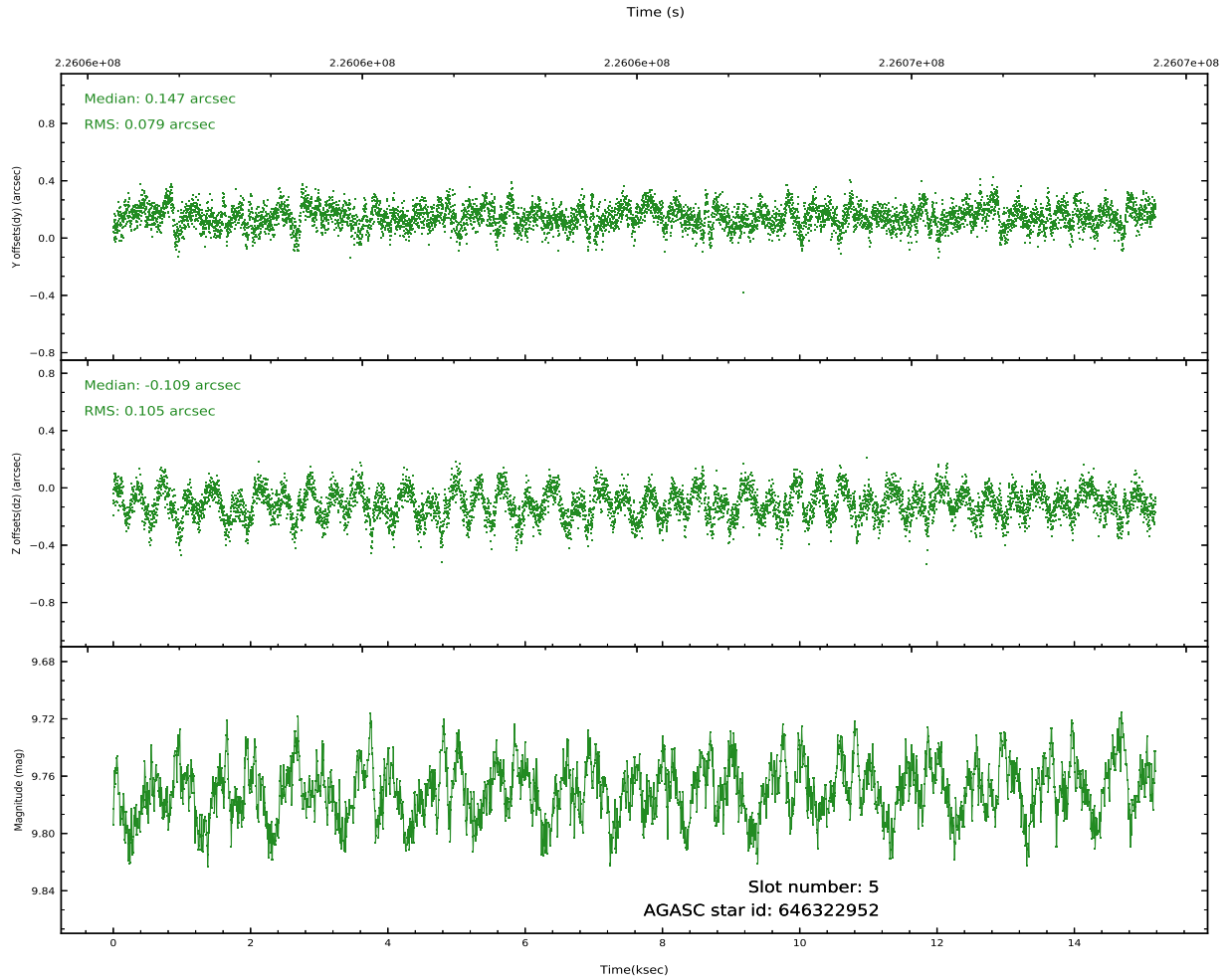
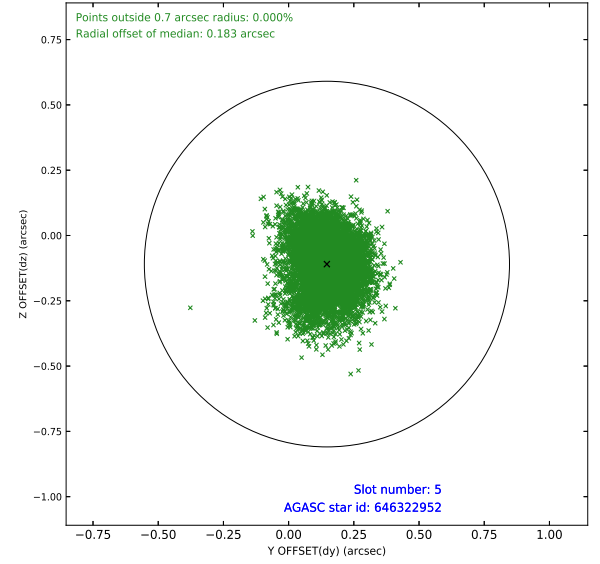
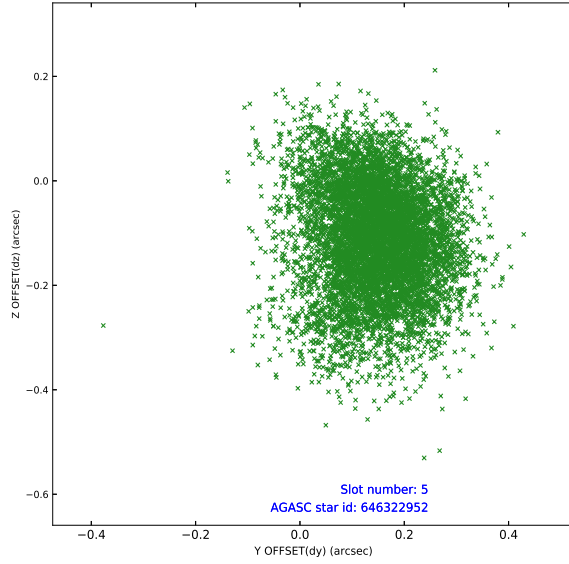
2.4.1 Slot 3



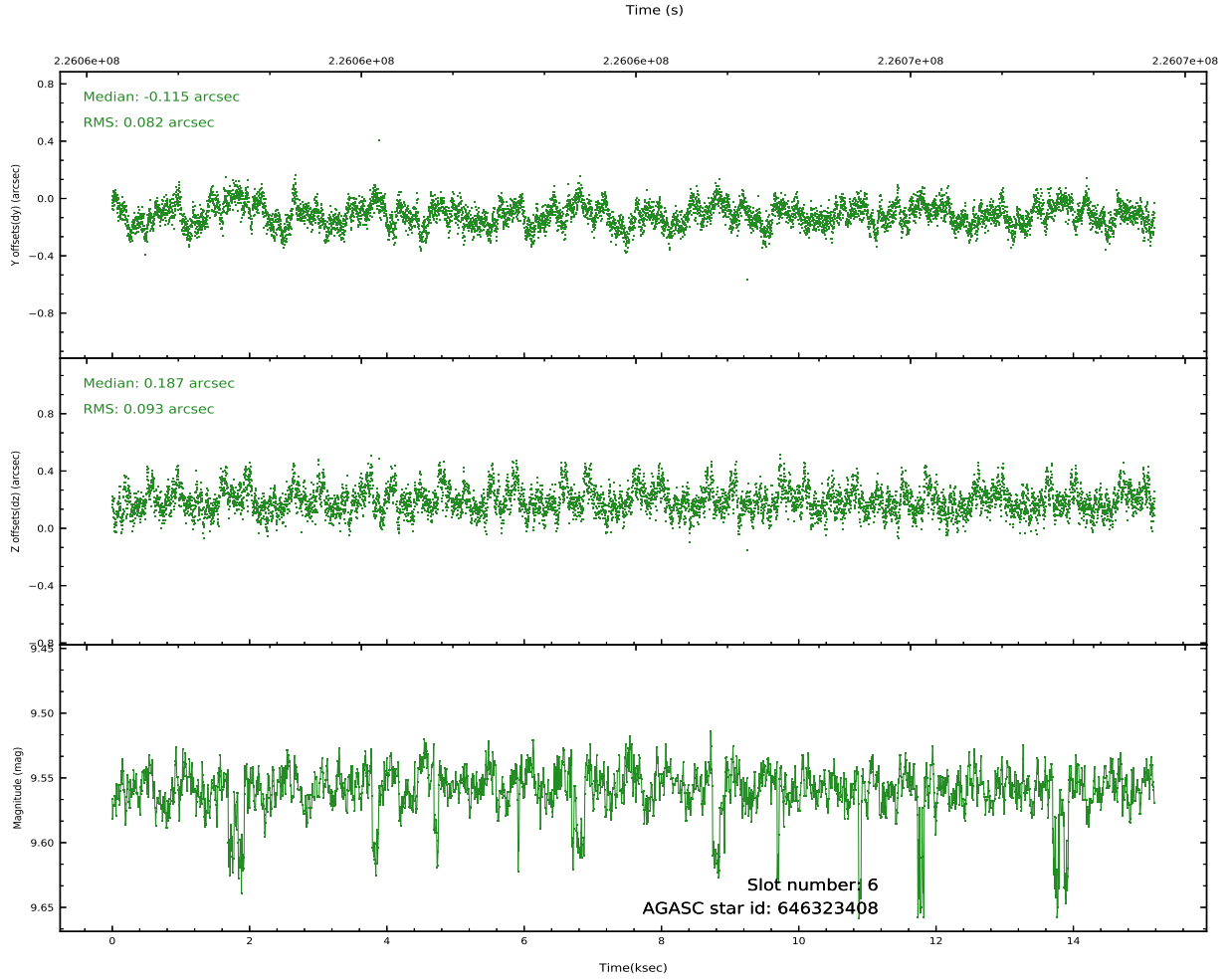
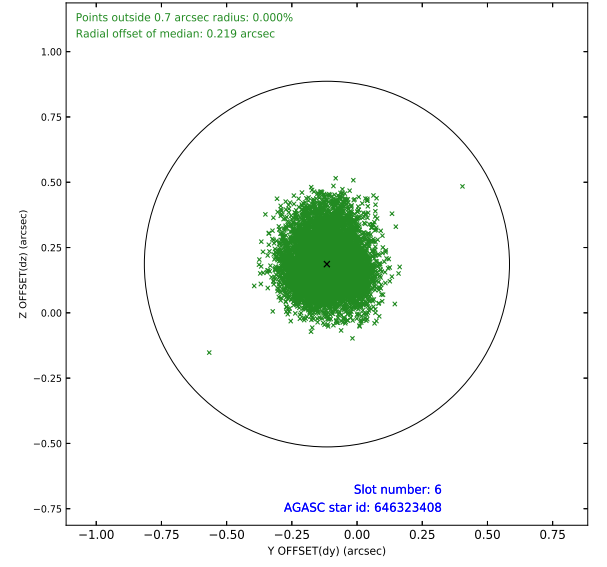
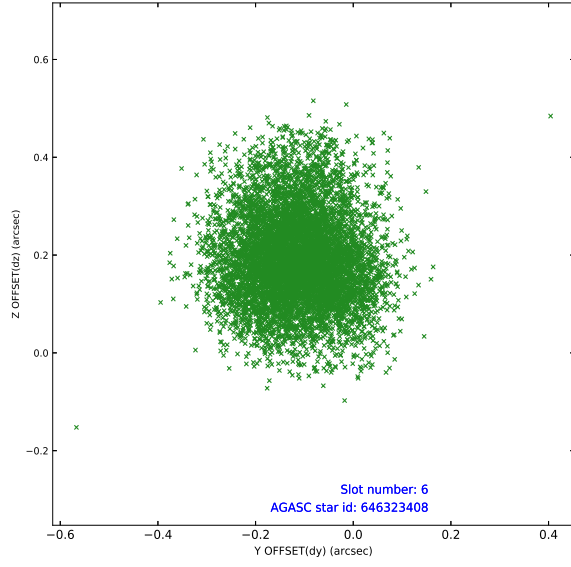
2.4.2 Slot 4



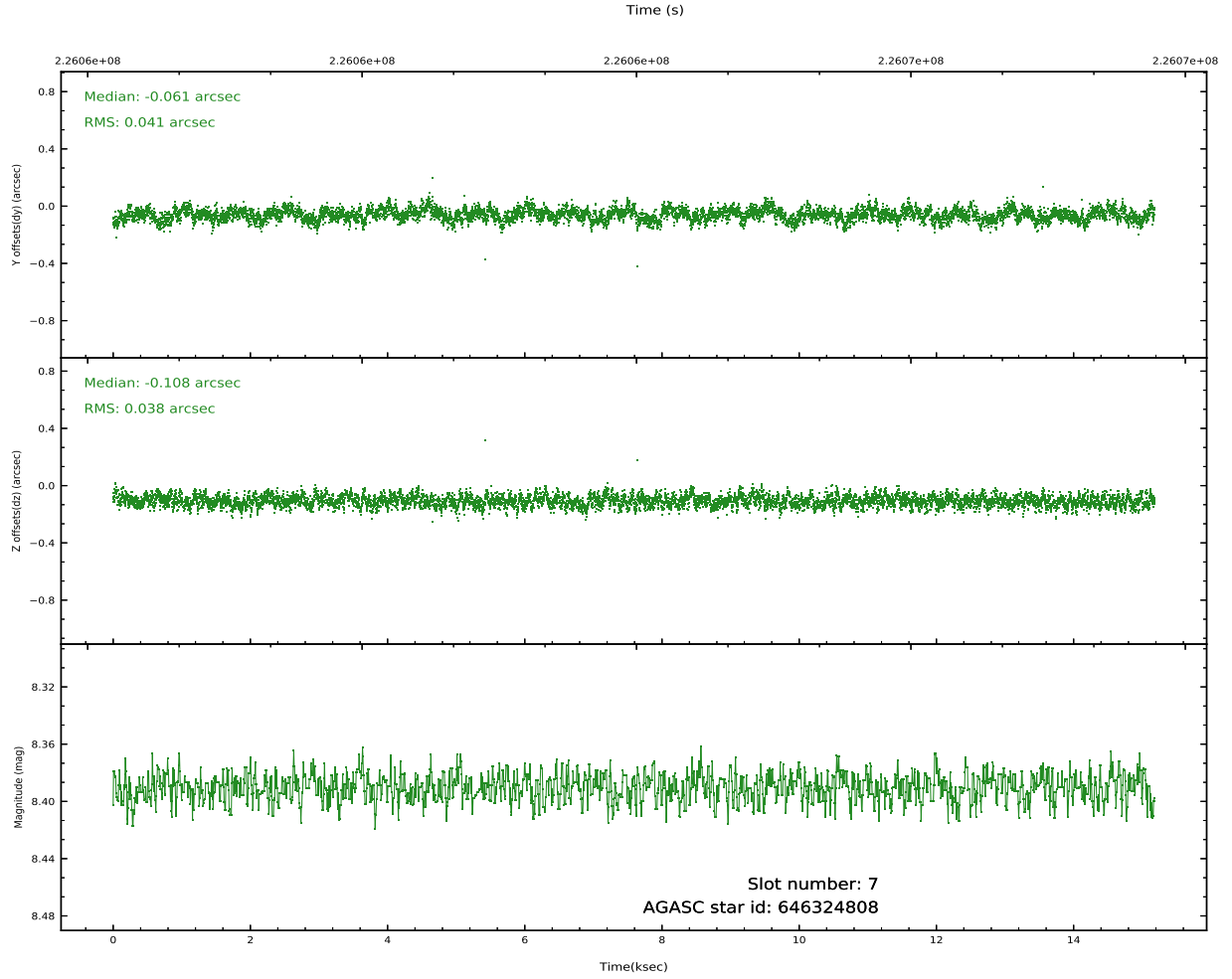
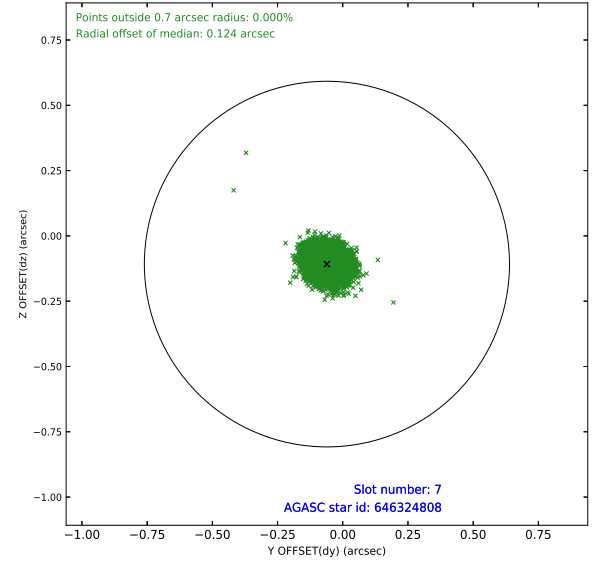
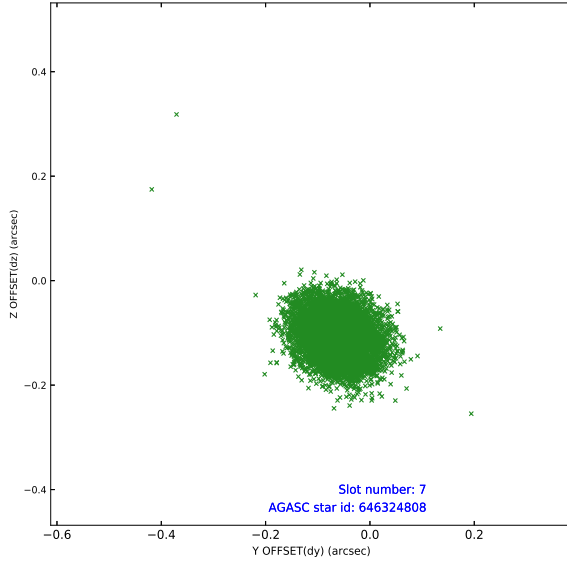
2.4.3 Slot 5



2.4.4 Slot 6

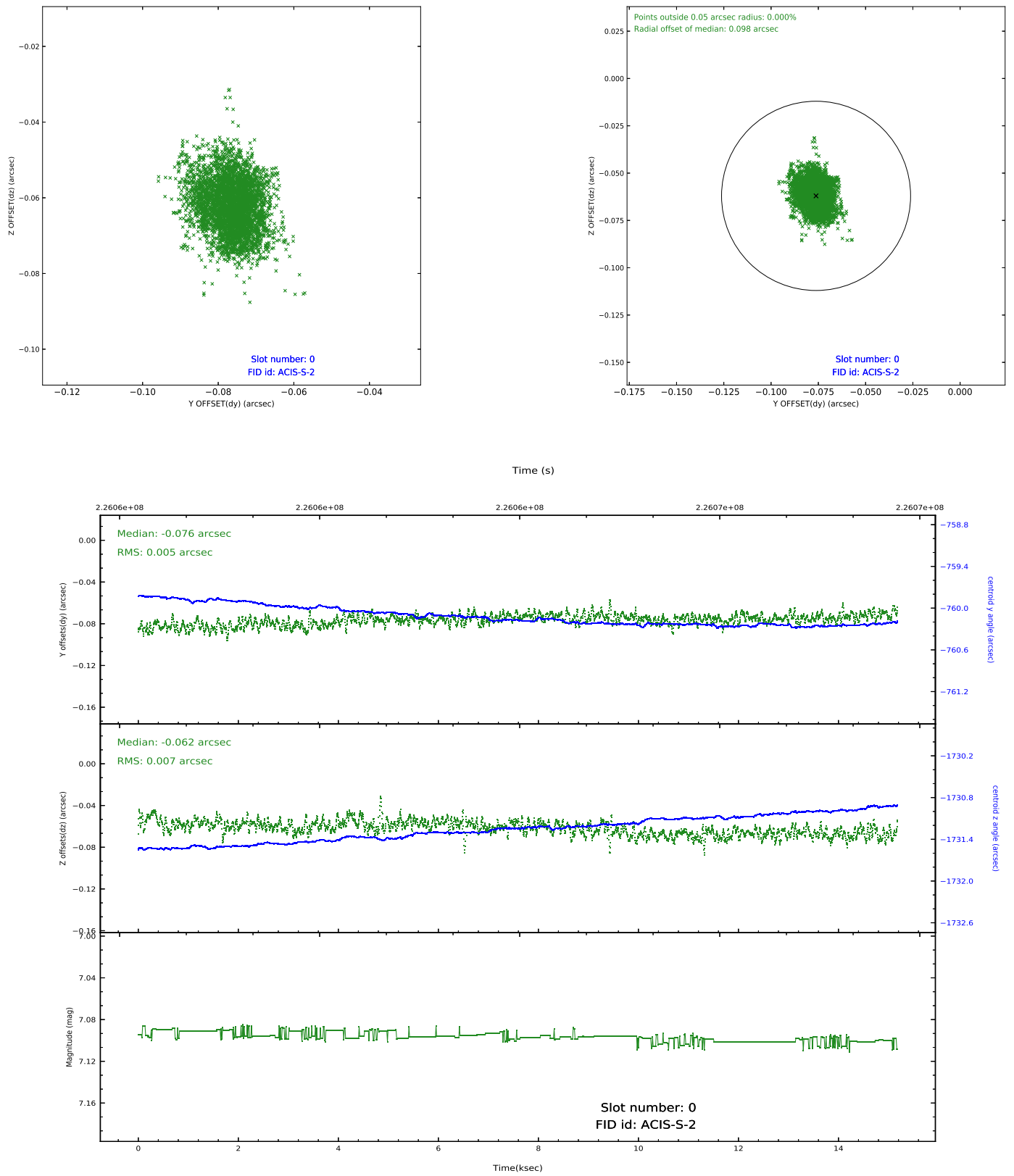


2.4.5 Slot 7

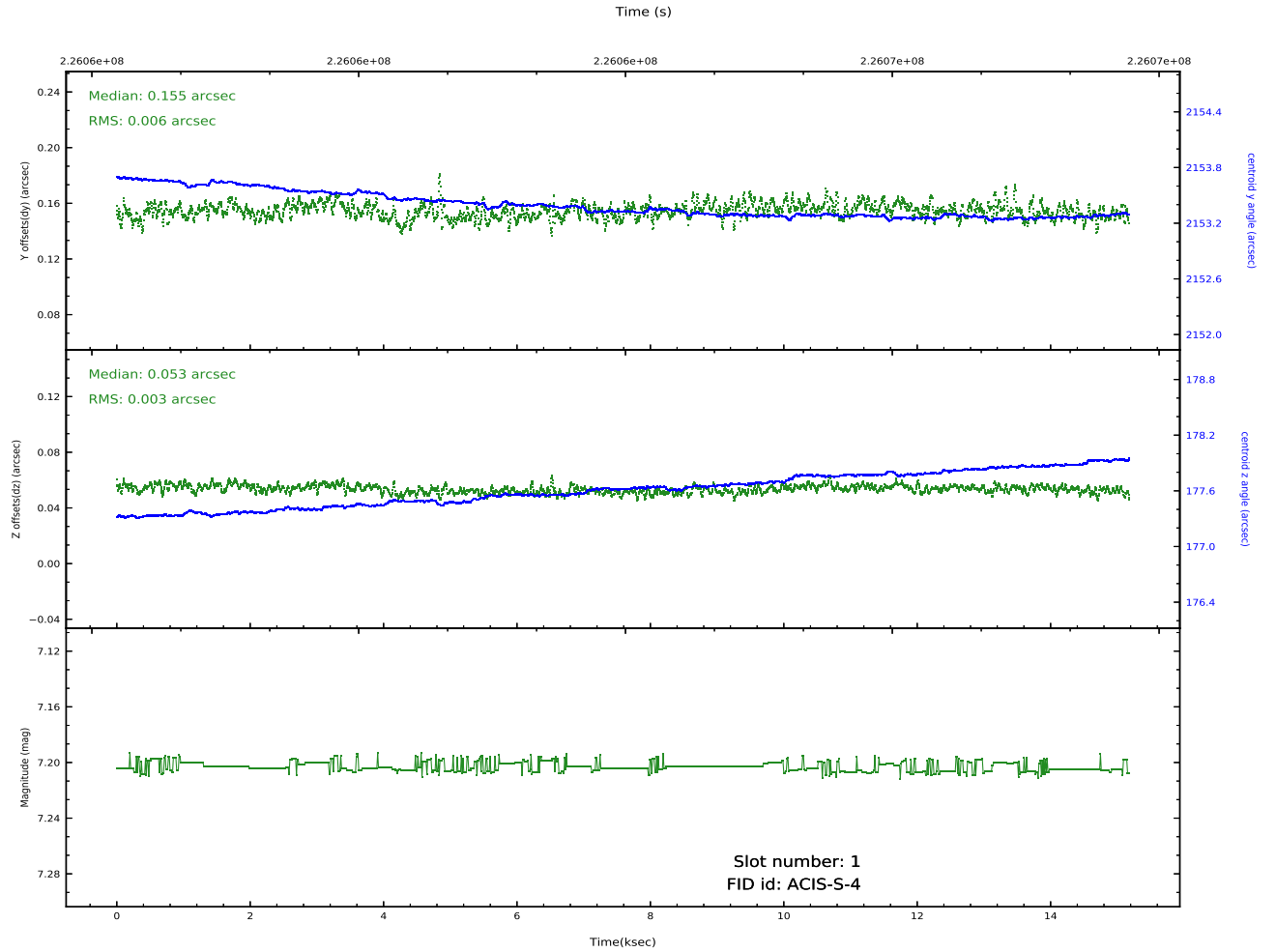
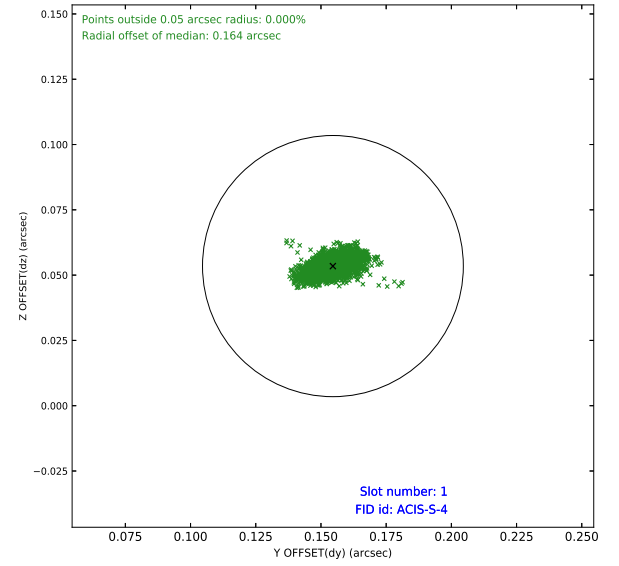
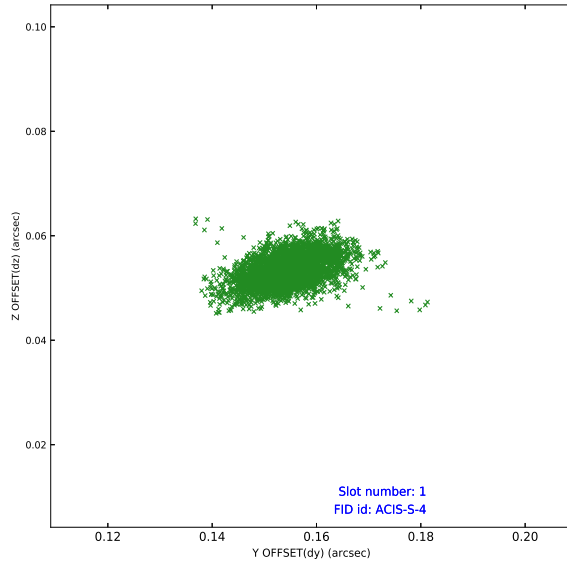


2.5 FID Slots

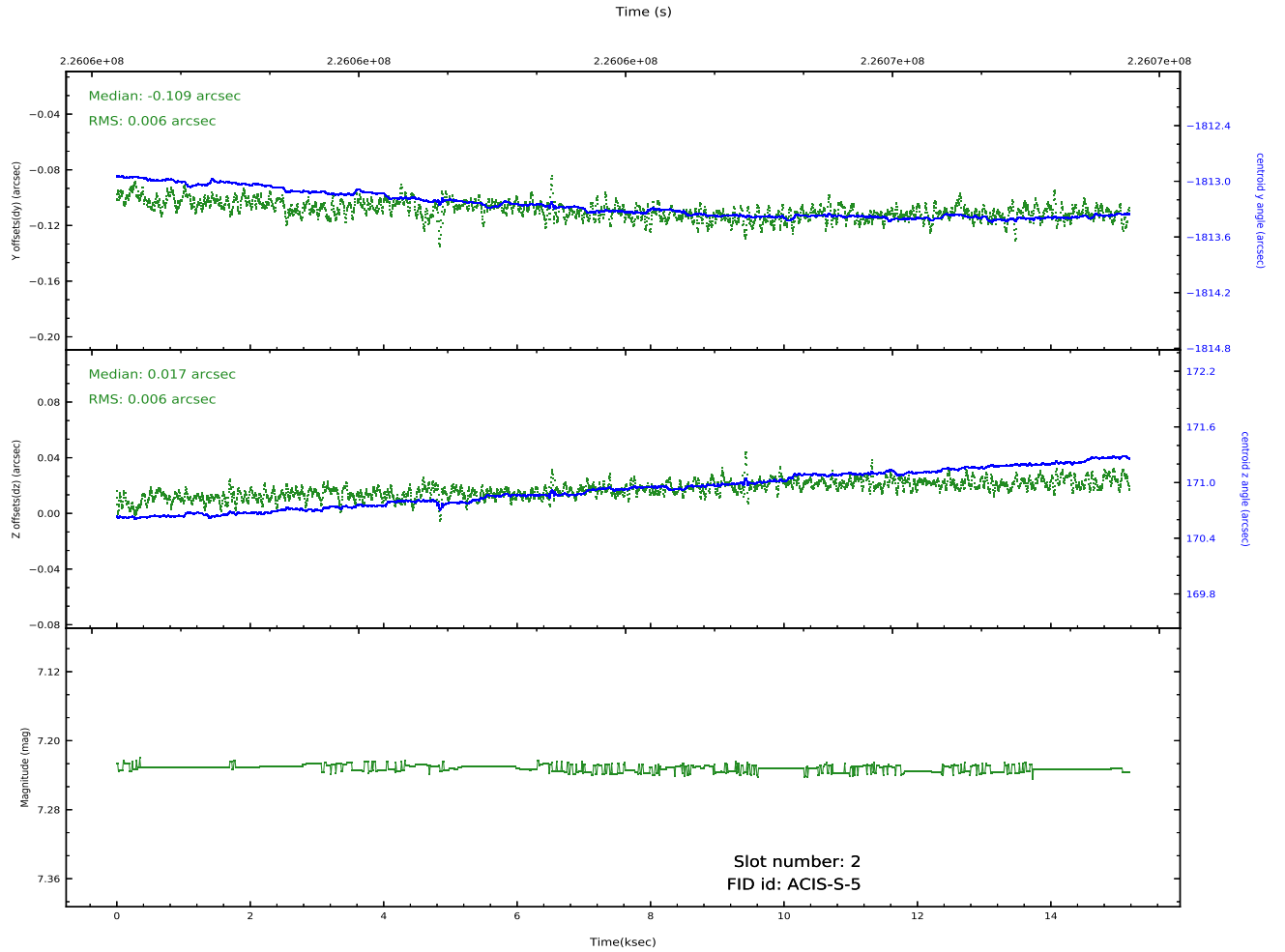
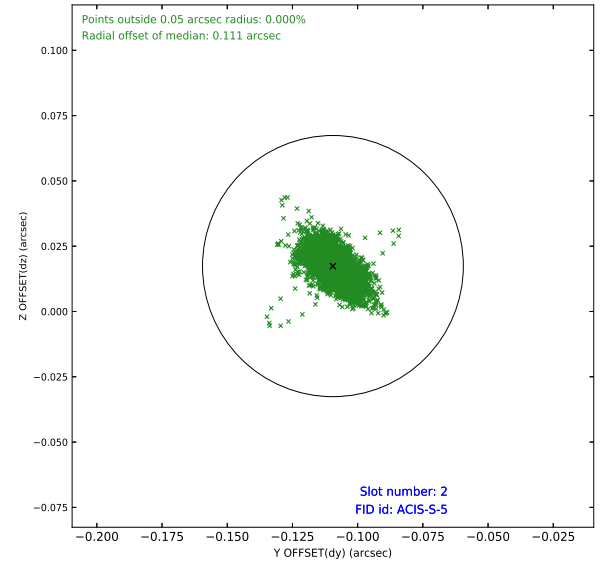
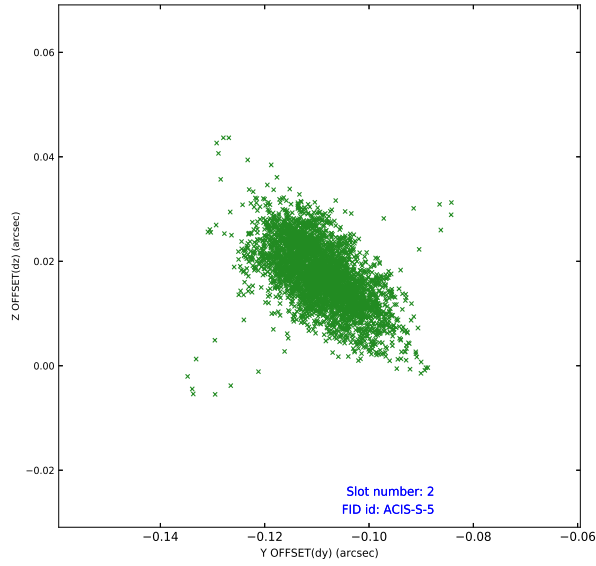
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.174

A.2 Comments