

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6158 - L2 Version 3
Chandra X-Ray Center

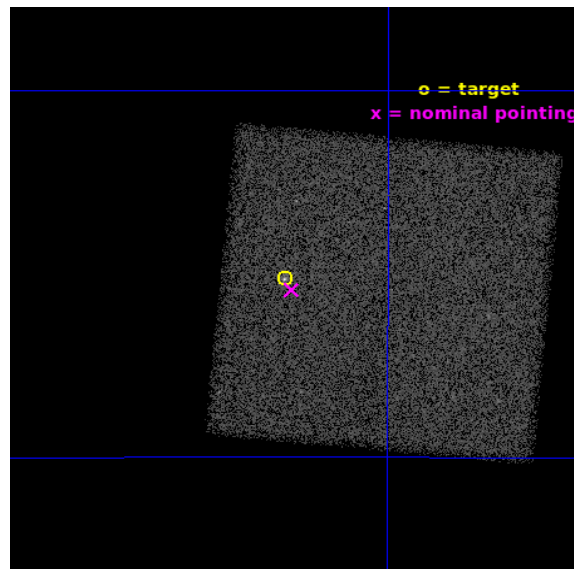
L2 Processing Date : Oct 11 2020

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1 Front

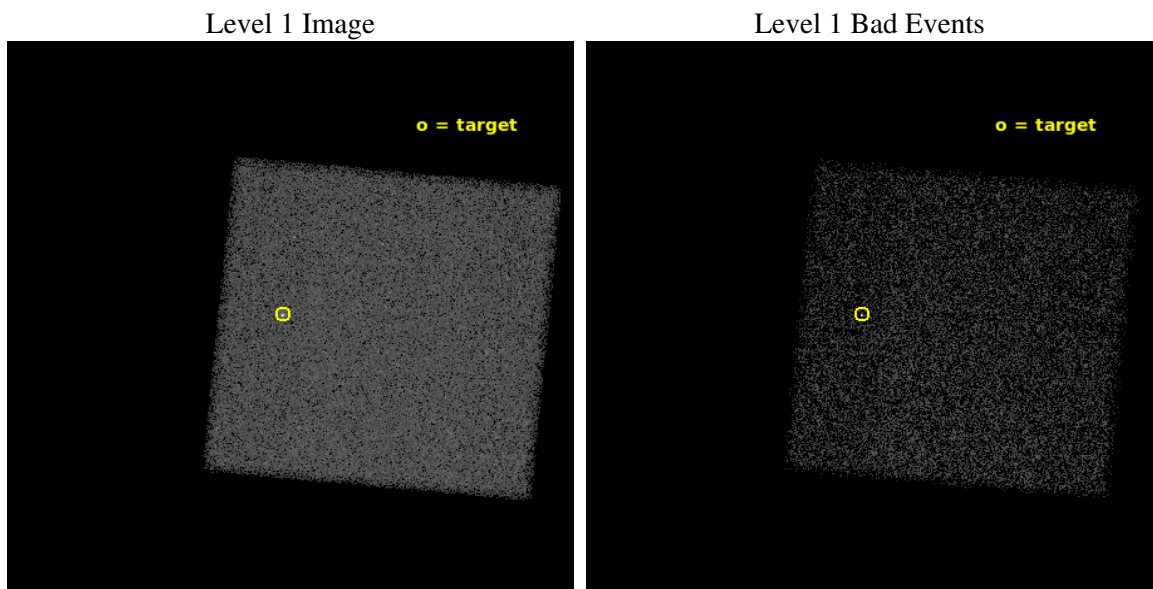
seq_num	590419	Sequence number
obs_id	6158	Observation id
title	Calibrating Pile-up in ACIS Imaging Data with PSRJ0437-4715	Propos
observer	CXC Calibration	Principal investigator
object	PSR J0437-4715	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	69.315833	Observer's specified target RA [deg]
dec_targ	-47.252333	Observer's specified target Dec [deg]
ra_nom	69.311202950667	Nominal RA [deg]
dec_nom	-47.257370927776	Nominal Dec [deg]
roll_nom	5.402593928069	Nominal Roll [deg]
revision	3	Processing version of data
ontime	20850.0	Sum of GTIs [s]
livetime	20764.781337391	Livetime [s]
ontime7	20850.0	Sum of GTIs [s]
l2events	88010	Number of level 2 events



2 OBI

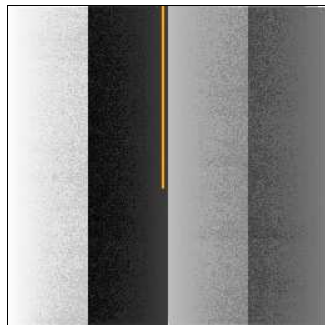
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	20850.0	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	20850.0	Sum of GTIs [s]
date	2020-10-11T17:39:53	Date and time of file creation	l1events	186386	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

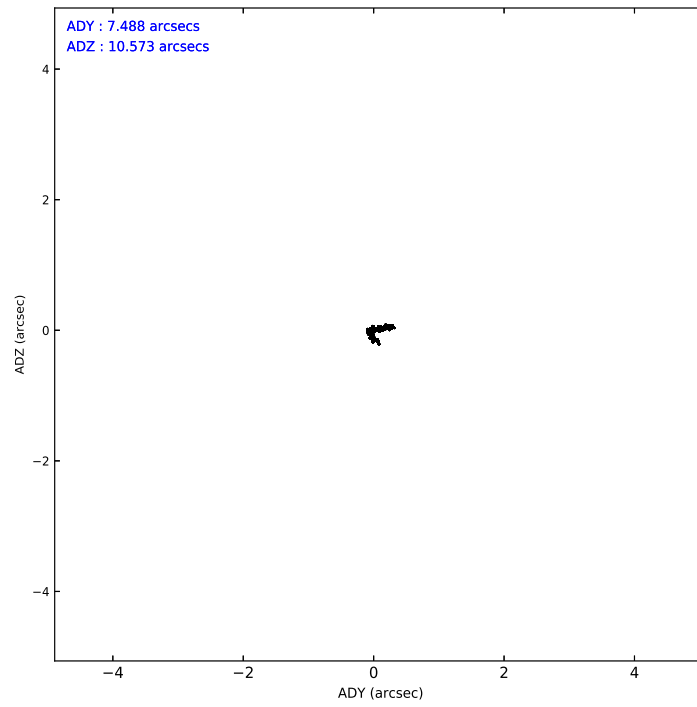
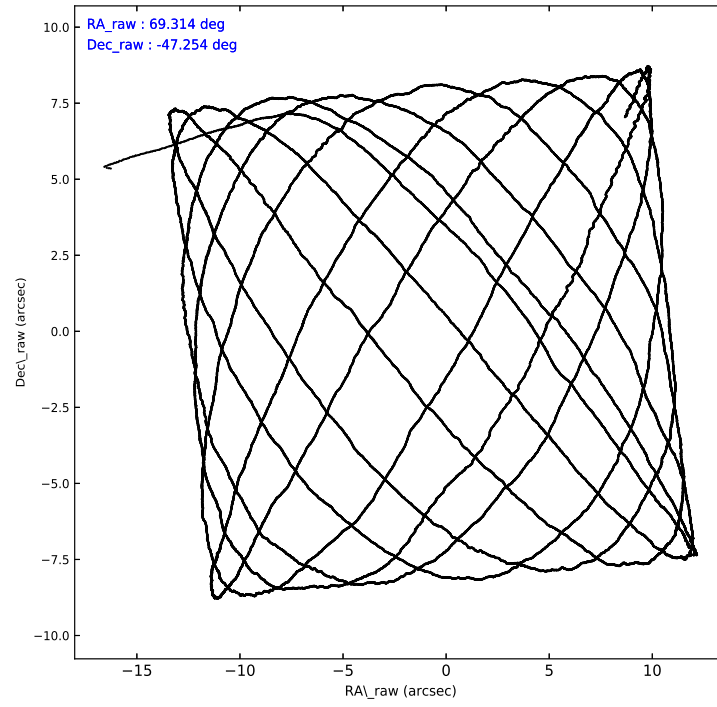
	ccd 7
level 1 events	186386
rejected events	96531
rejected %	51%

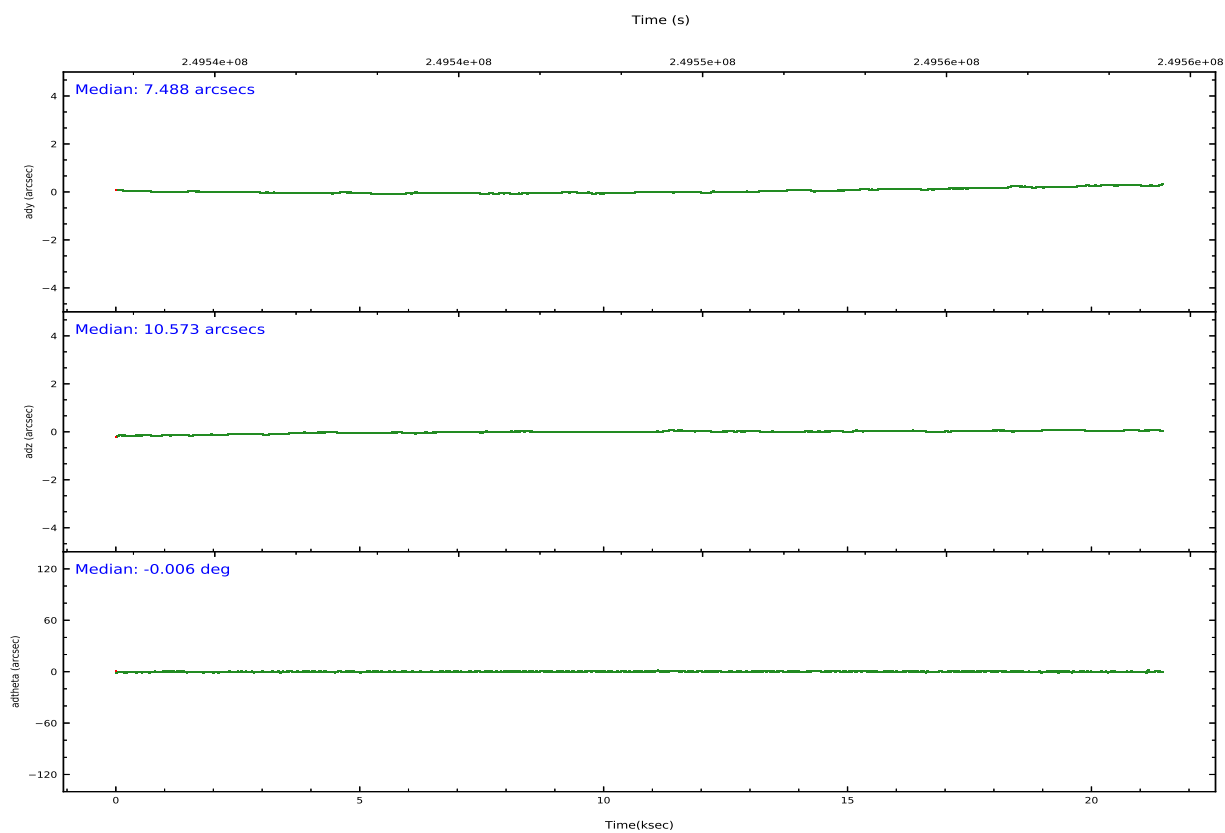
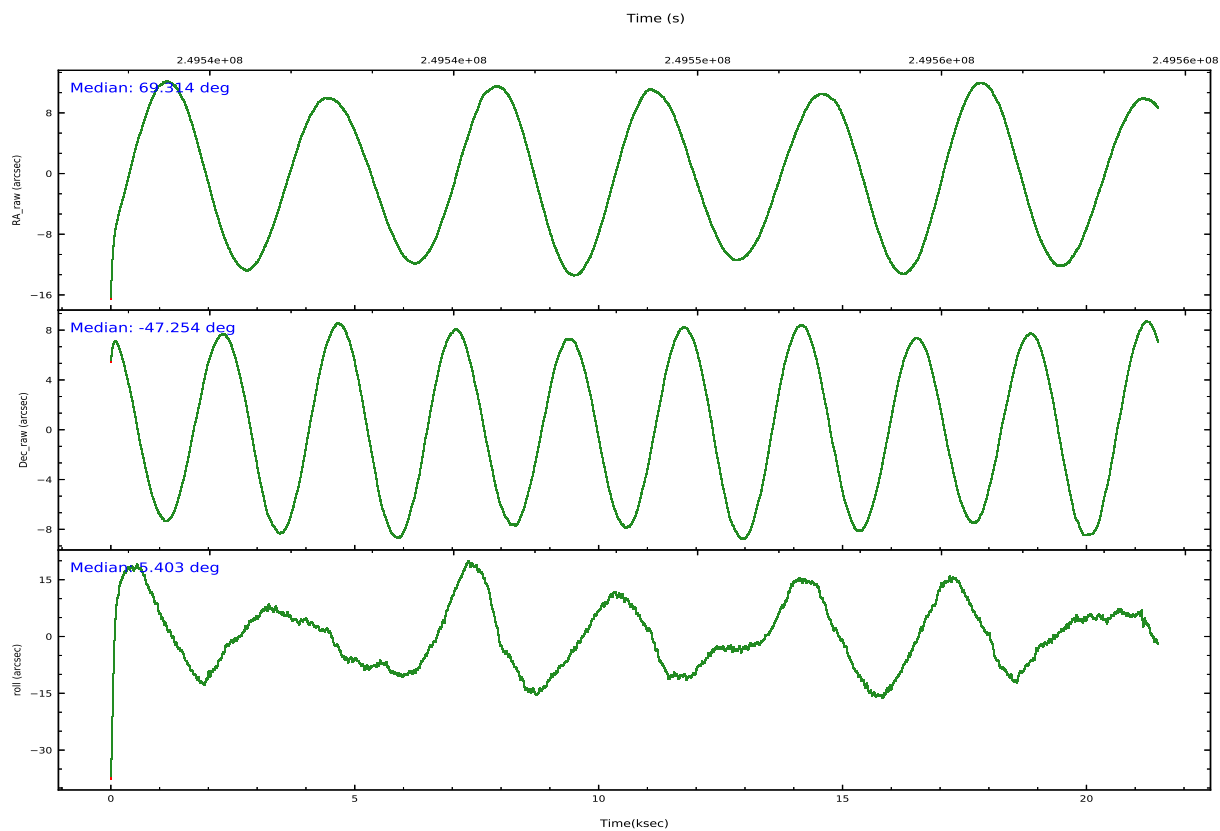
	ccd 7
grade 0 events	8377
	4%
grade 1 events	268
	0%
grade 2 events	17954
	9%
grade 3 events	8098
	4%
grade 4 events	7833
	4%
grade 5 events	19238
	10%
grade 6 events	47634
	25%
grade 7 events	76984
	41%

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	69.281507	69.311202950667	Subarray requested	NONE	NONE
[deg] Pointing Dec	-47.270202	-47.257370927776	Alternating exposures requested	N	N
[deg] Pointing Roll	5.218667	5.402593928069	[s] Primary exposure time	0.000000	10
[s] Window start time (MET)	248400064.184000	248400064.184000			
[s] Window stop time (MET)	252460804.184000	252460804.184000			
[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)	249539442.184000	249537304.84319			
Observation start date	2005-11-28T04:29:38	2005-11-28T03:55:04			
[s] Observation end time (MET)	249559442.184000	249560208.46925			
Observation end date	2005-11-28T10:02:58	2005-11-28T10:16:48			
Read mode	TIMED	TIMED			

2.3 Aspect



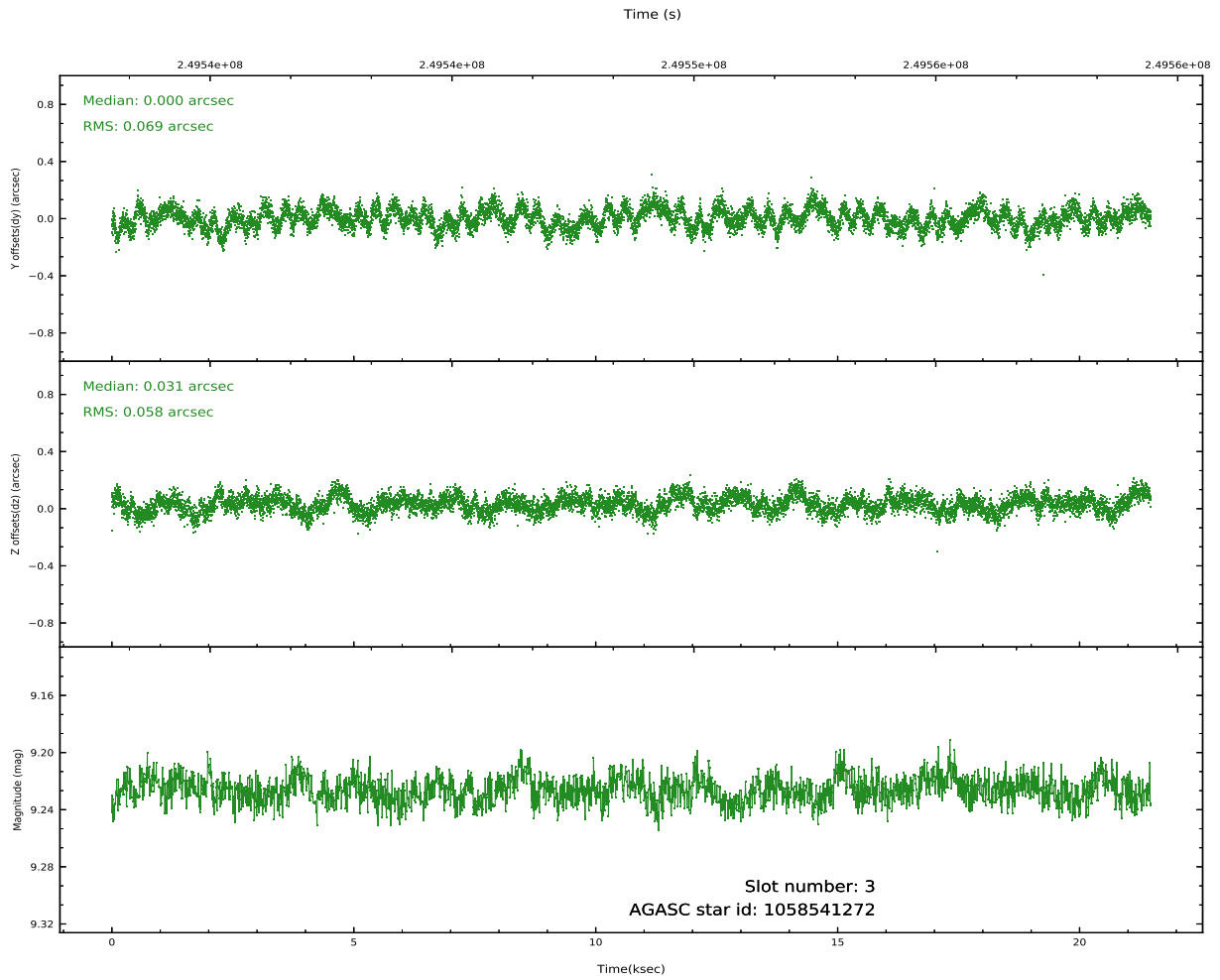
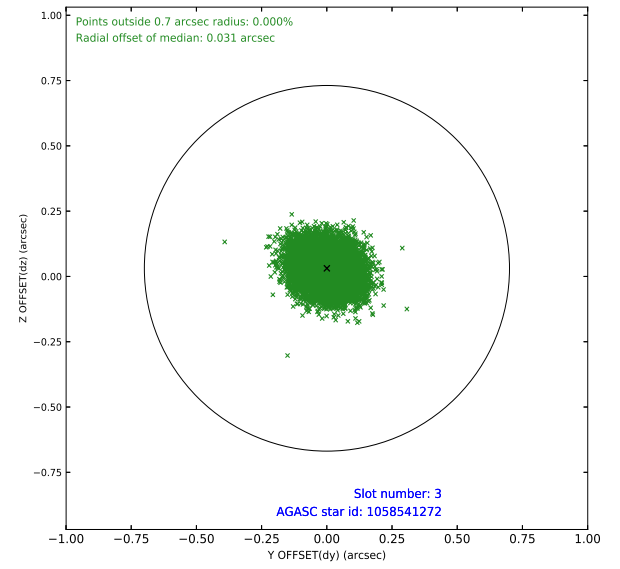
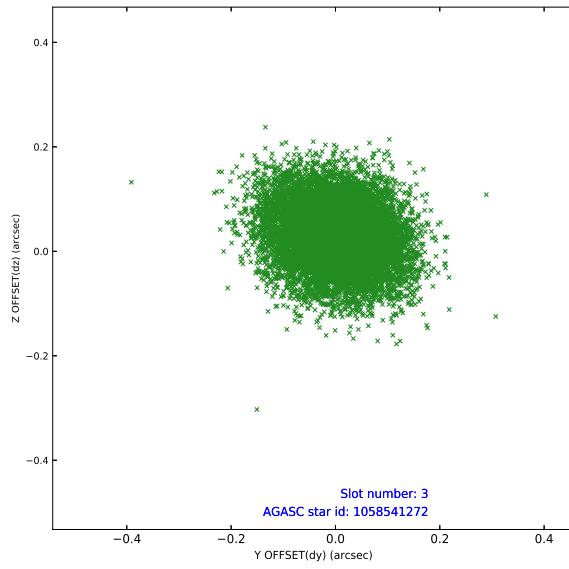


Slot Statistics

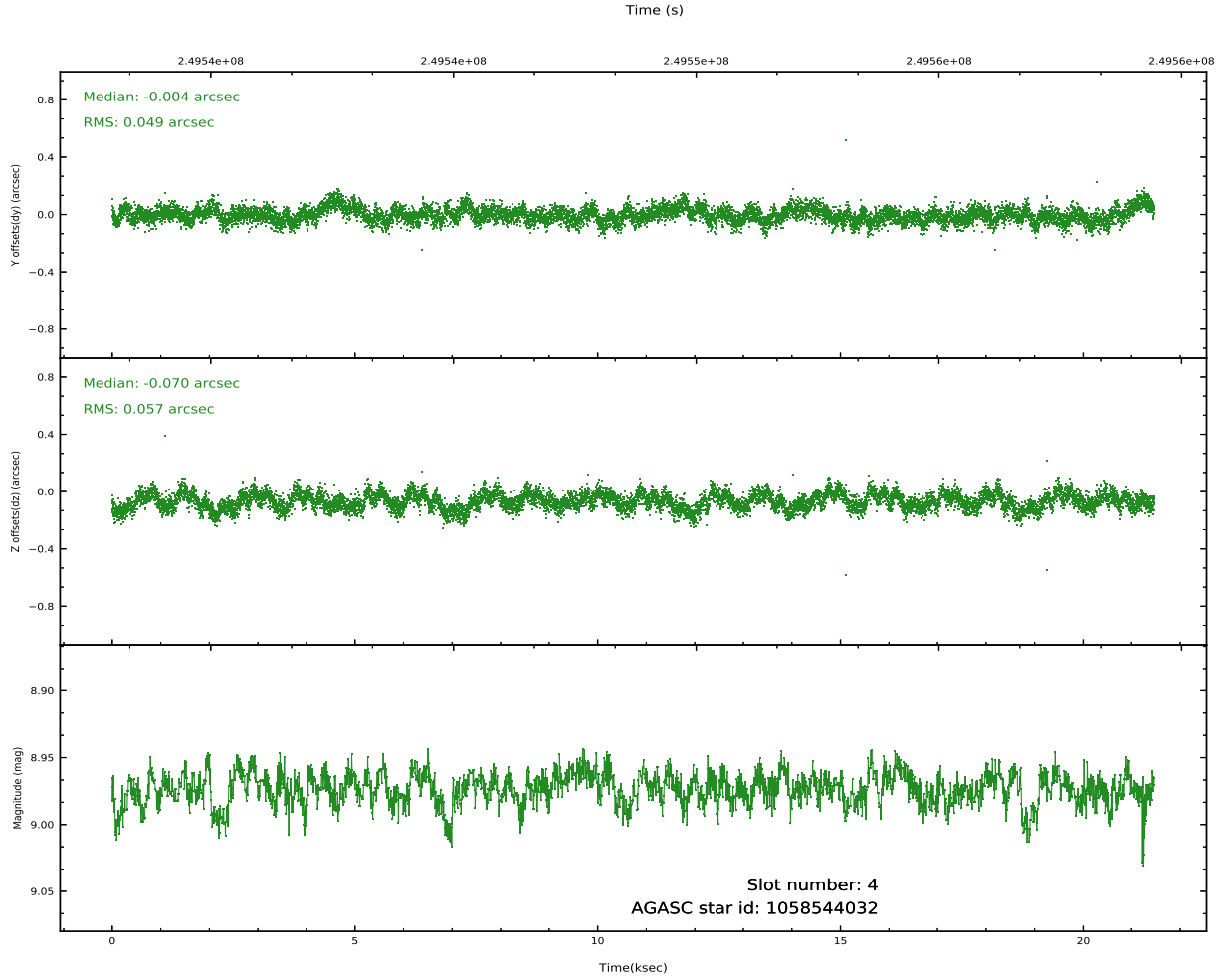
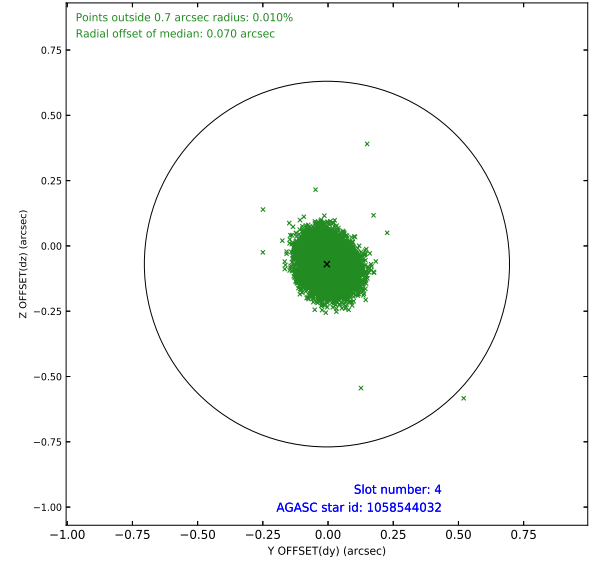
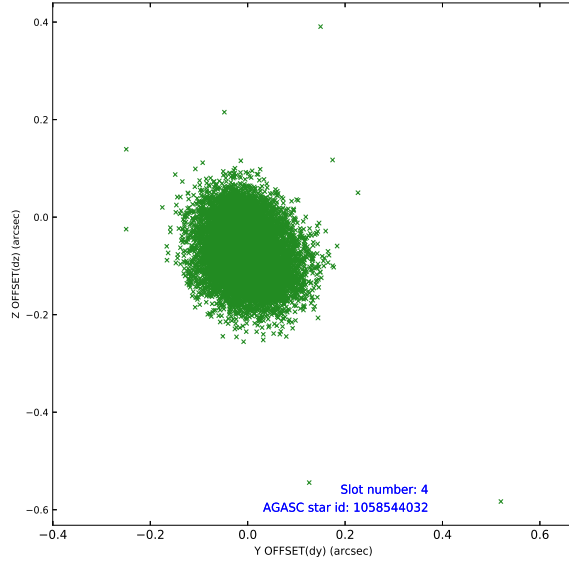
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	5237	1.000	-0.081	-0.057	0.007	0.012	0.000000	0.000000	-760.30	-1731
1	FID		ACIS-S-4	7.21	5237	1.000	0.169	0.055	0.006	0.012	0.000000	0.000000	2153.07	176
2	FID		ACIS-S-5	7.23	5236	1.000	-0.118	0.011	0.009	0.016	0.000000	0.000000	-1813.05	170
3	GUIDE	used	1058541272	9.23	10467	1.000	0.000	0.031	0.097	0.153	68.392275	-46.921735	-2064.49	1435
4	GUIDE	used	1058544032	8.97	10464	1.000	-0.004	-0.070	0.080	0.128	69.576631	-47.141596	761.42	394
5	GUIDE	used	1058931064	9.46	10469	1.000	0.042	-0.060	0.115	0.193	69.760694	-47.722390	1007.45	-1730
6	GUIDE	used	1058542336	9.62	10462	1.000	-0.039	0.066	0.117	0.180	69.740954	-46.597293	1351.89	2305
7	GUIDE	used	1058537632	9.83	10467	1.000	-0.002	0.036	0.121	0.198	68.291617	-47.025396	-2340.29	1083

2.4 Star Slots

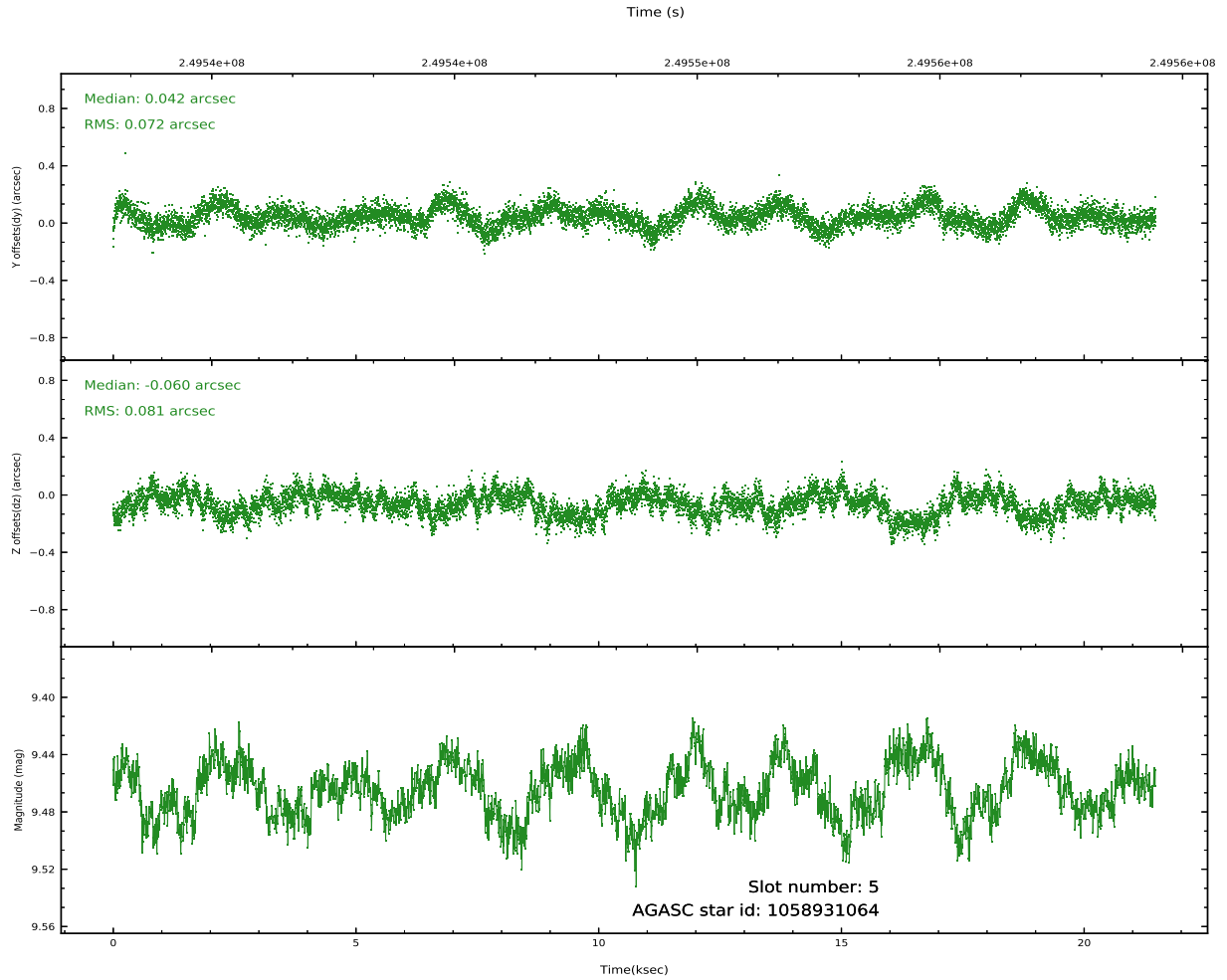
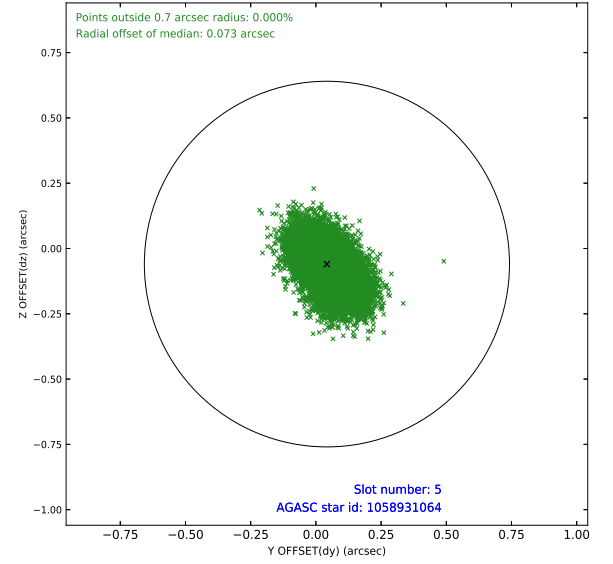
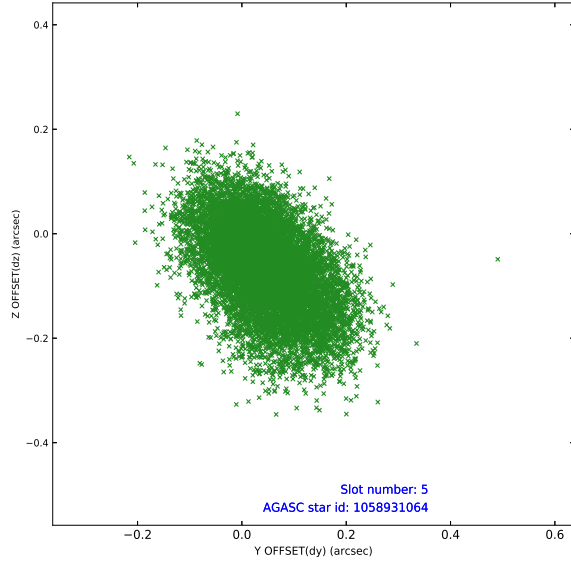
2.4.1 Slot 3



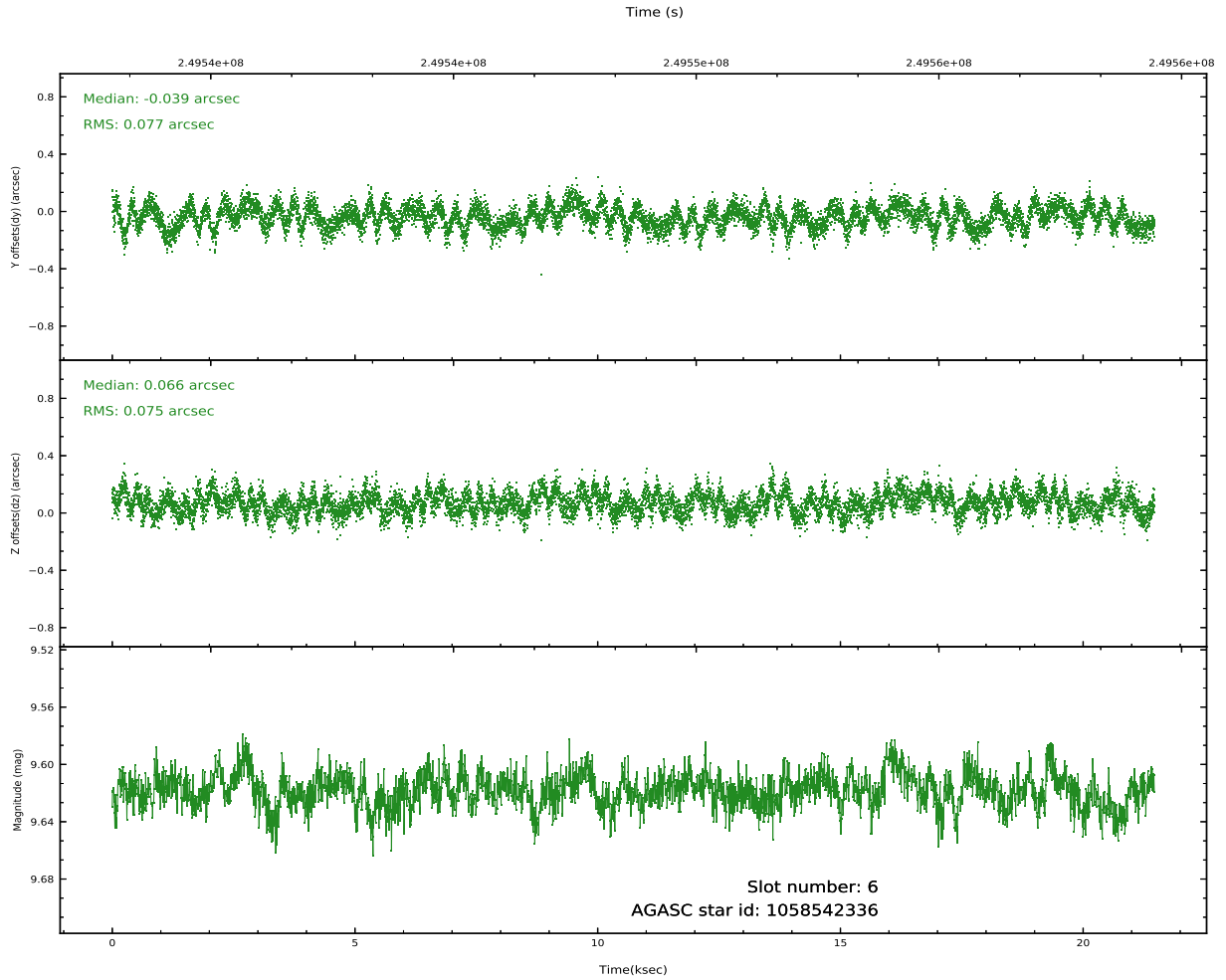
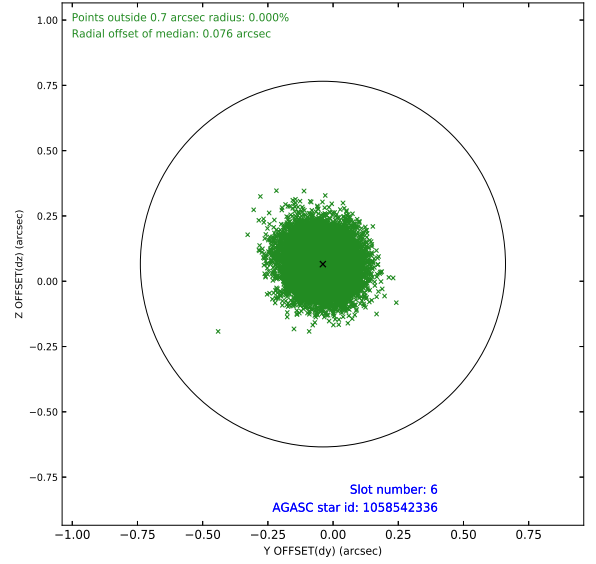
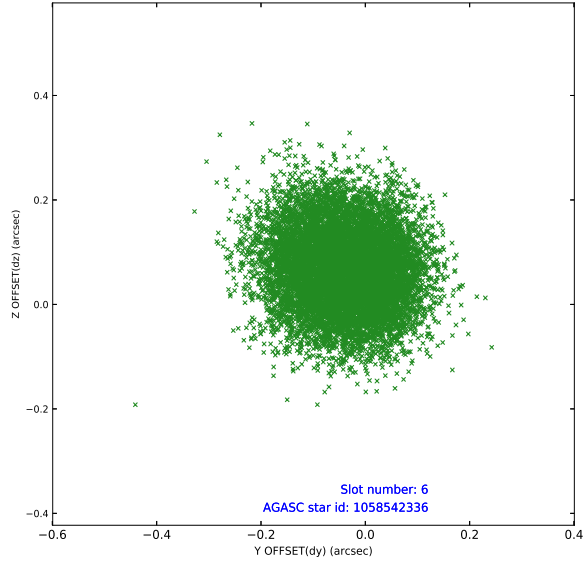
2.4.2 Slot 4



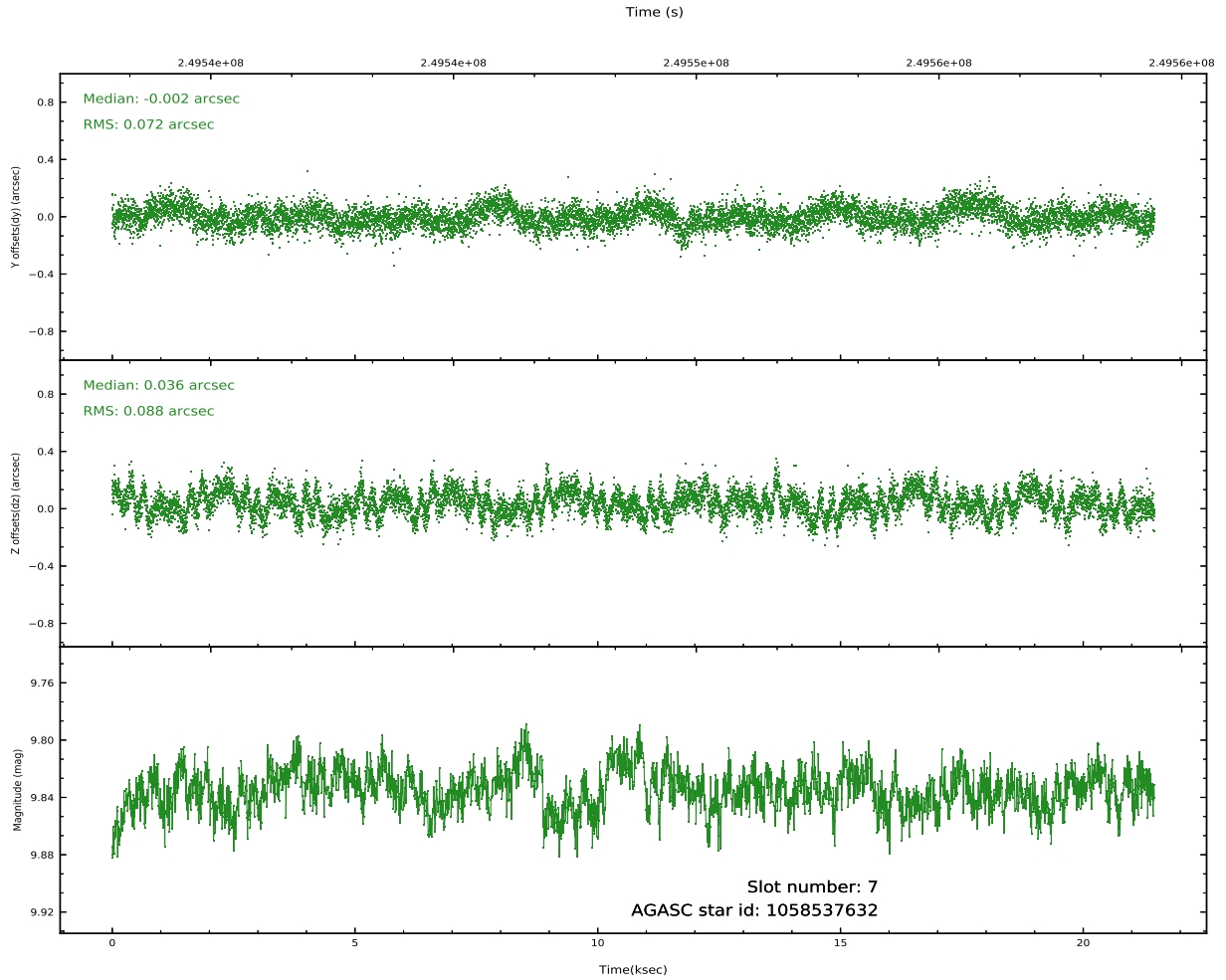
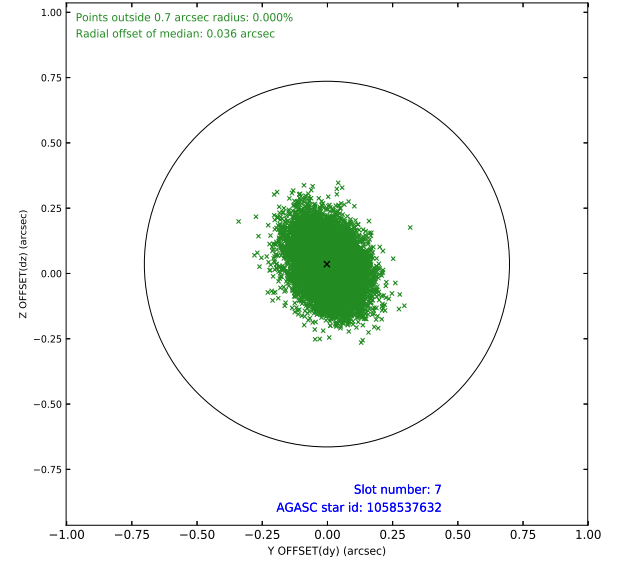
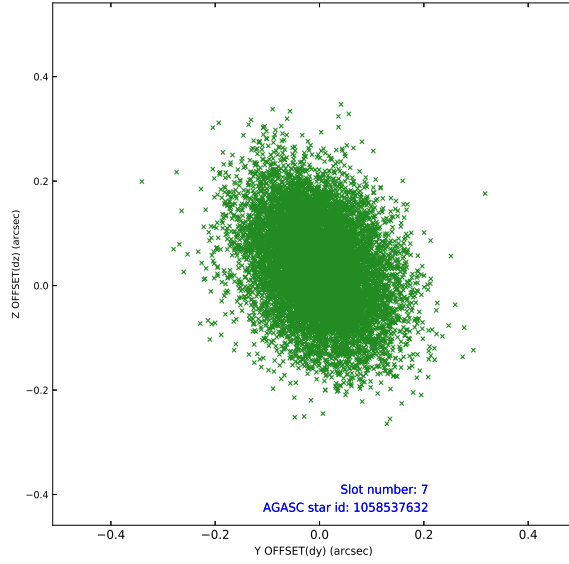
2.4.3 Slot 5



2.4.4 Slot 6

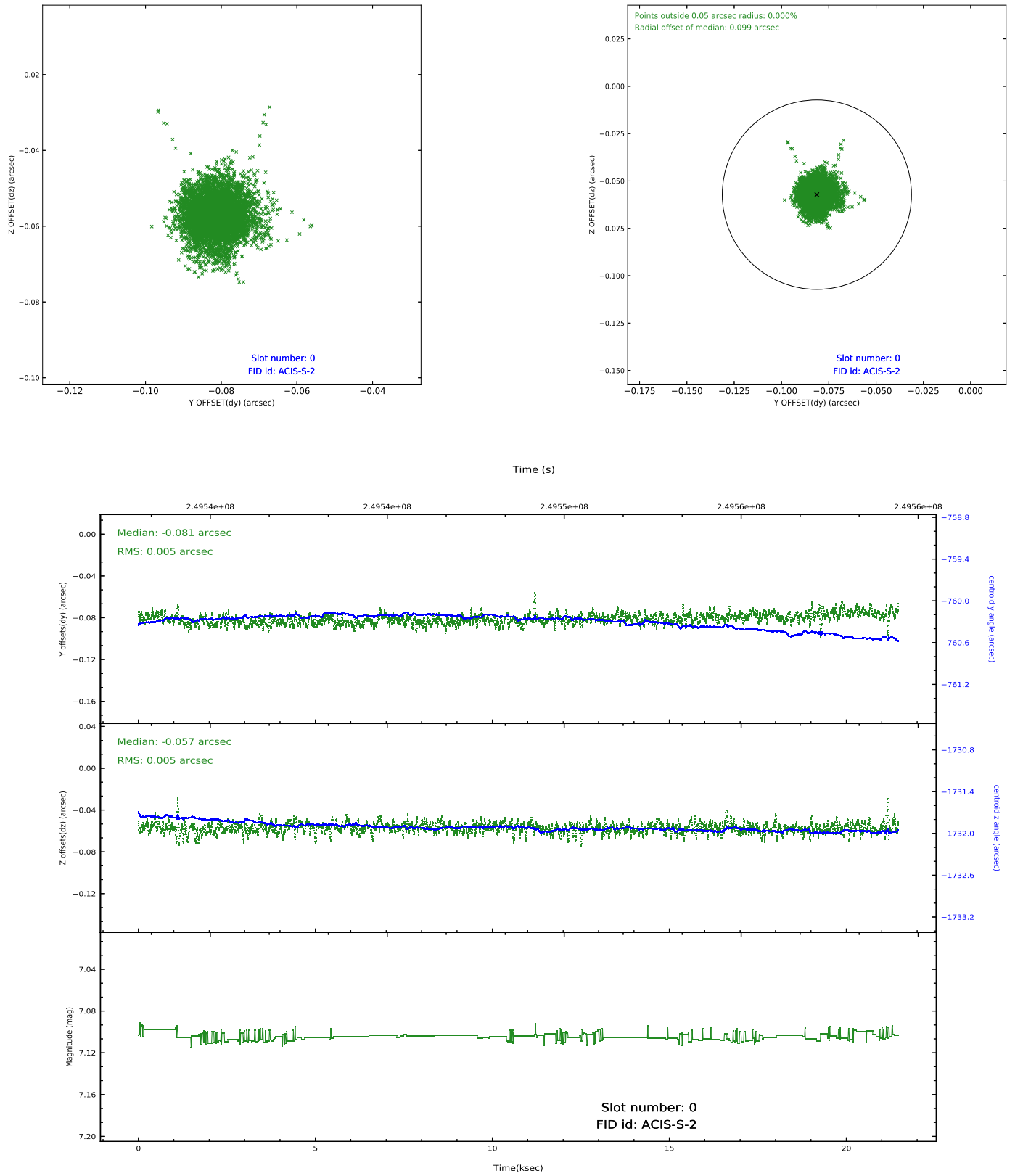


2.4.5 Slot 7

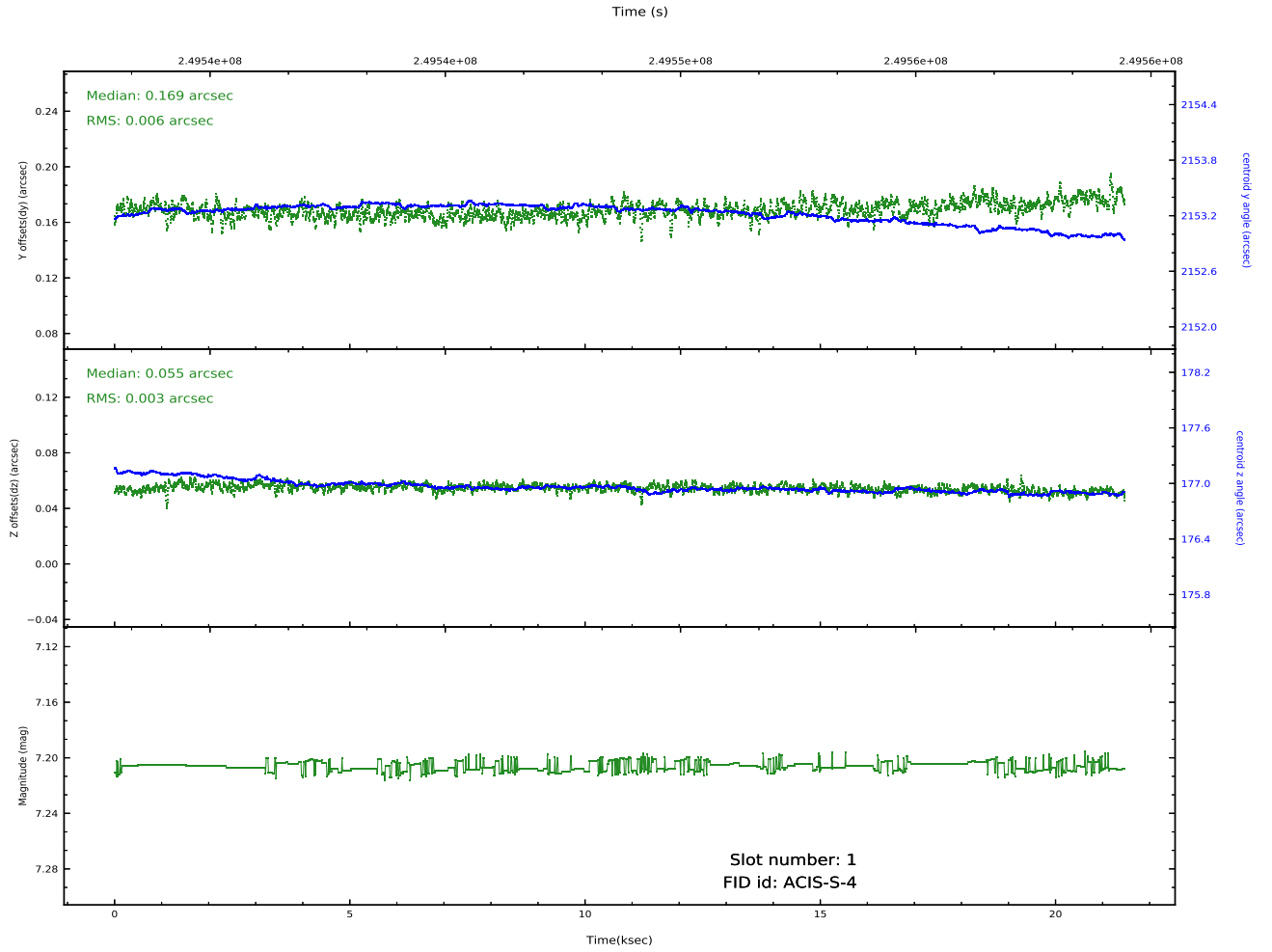
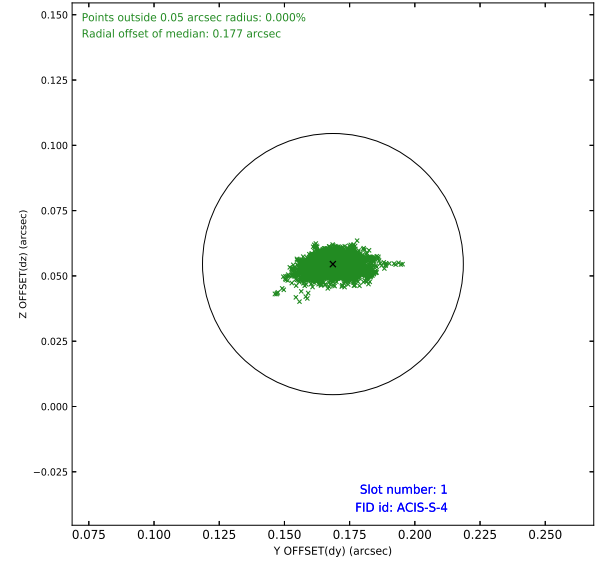
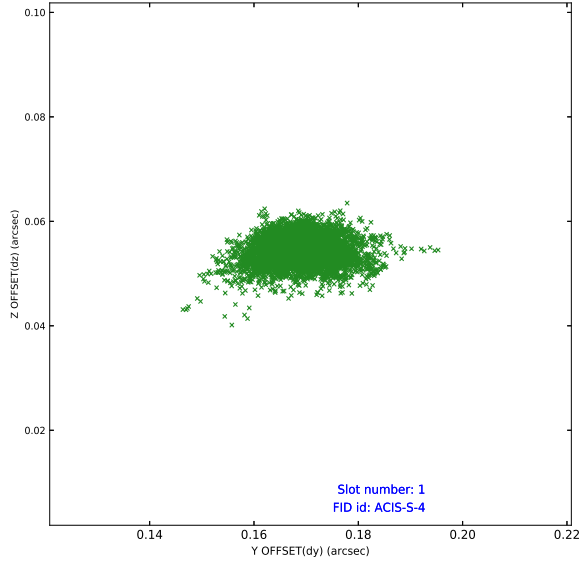


2.5 FID Slots

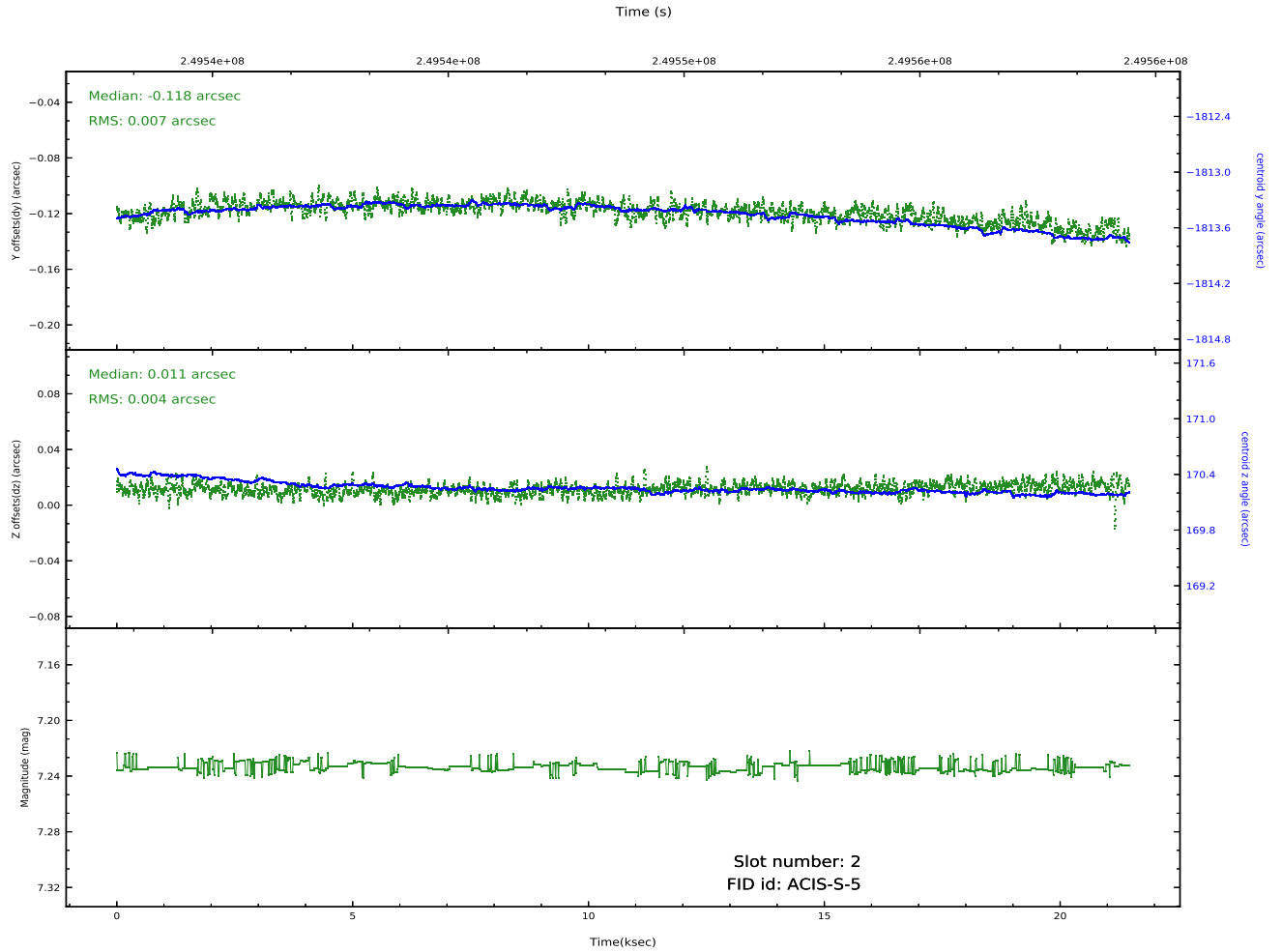
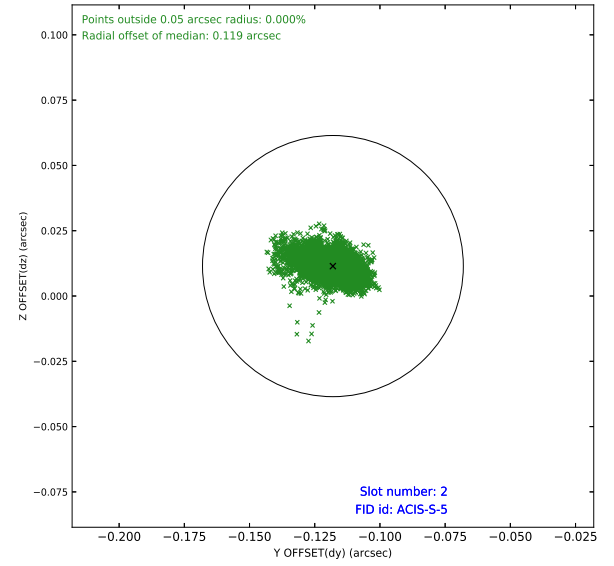
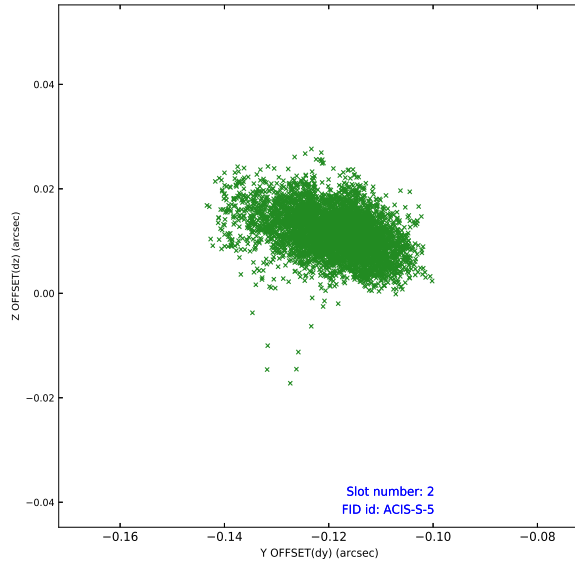
2.5.1 Slot 0



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	20.85

A.2 Comments

Window constraint was met.