

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21435 - L2 Version 1
Chandra X-Ray Center

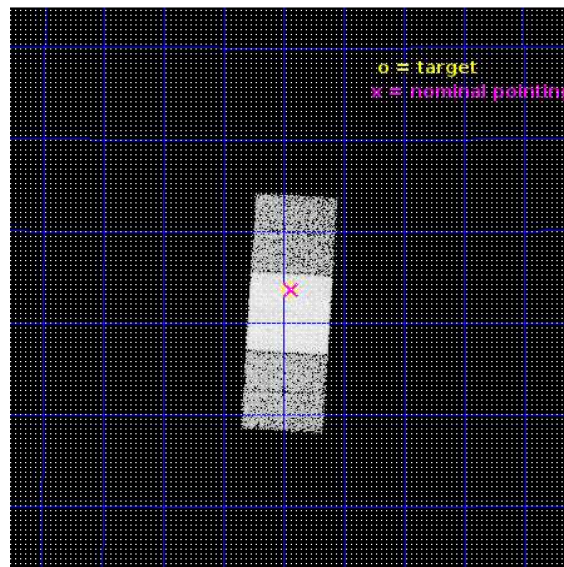
L2 Processing Date : May 29 2019

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1 Front

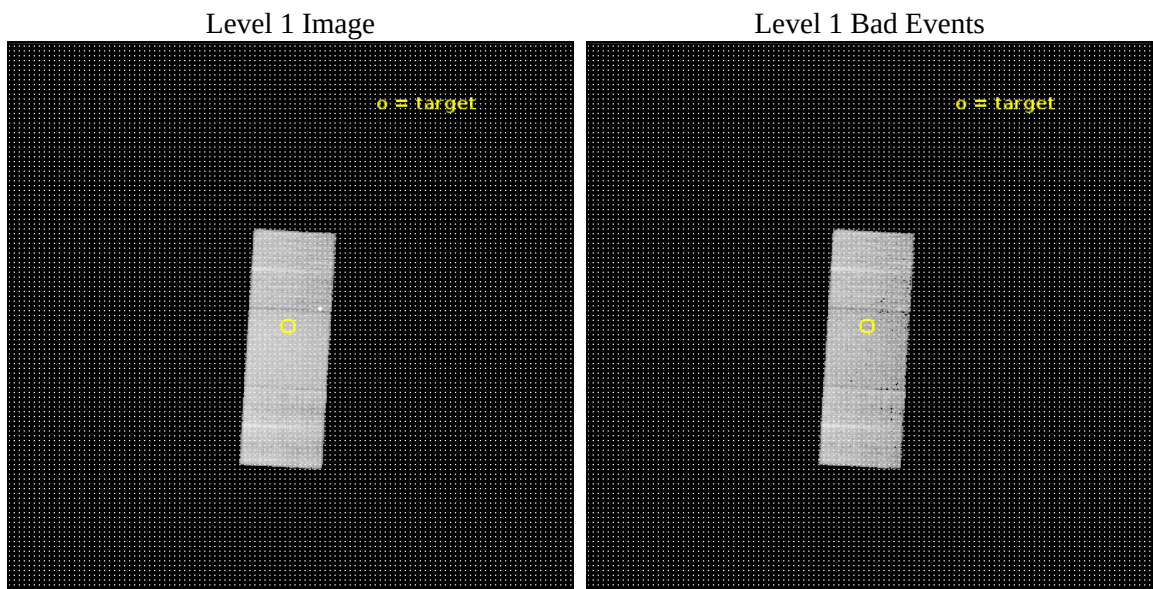
seq_num	703732	Sequence number
obs_id	21435	Observation id
title	Tidal disruption events unveiled: Directly probing the accretion disks through late-time Chandra observations	Proposal title
observer	Edo Berger	Principal investigator
object	iPTF16fnl	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	7.4875	Observer's specified target RA [deg]
dec_targ	32.893667	Observer's specified target Dec [deg]
ra_nom	7.4840041534596	Nominal RA [deg]
dec_nom	32.89401057928	Nominal Dec [deg]
roll_nom	93.346668145323	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10109.100077868	Sum of GTIs [s]
livetime	9977.017243139	Livetime [s]
ontime6	10109.100077868	Sum of GTIs [s]
ontime7	10109.100077868	Sum of GTIs [s]
ontime8	10109.100077868	Sum of GTIs [s]
l2events	56902	Number of level 2 events



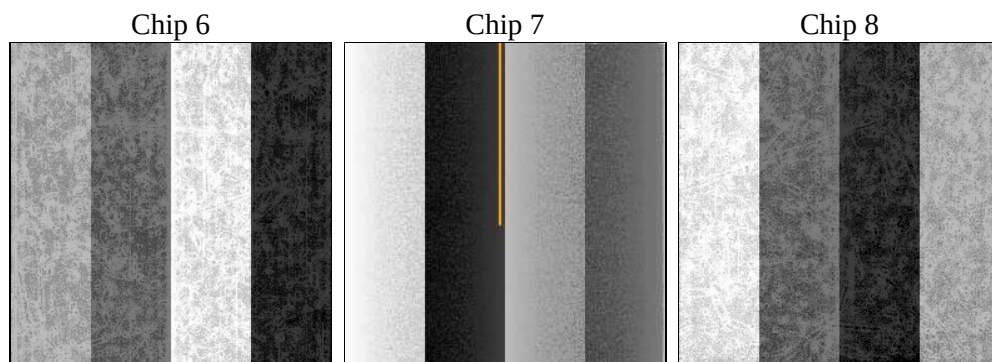
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	10109.100077868	Sum of GTIs [s]
caldsver	4.8.3	 	ontime6	10109.100077868	Sum of GTIs [s]
date	2019-05-29T23:20:50	Date and time of file creation	ontime7	10109.100077868	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	10109.100077868	Sum of GTIs [s]
			l1events	273097	Number of level 1 events

2.1.4 Events

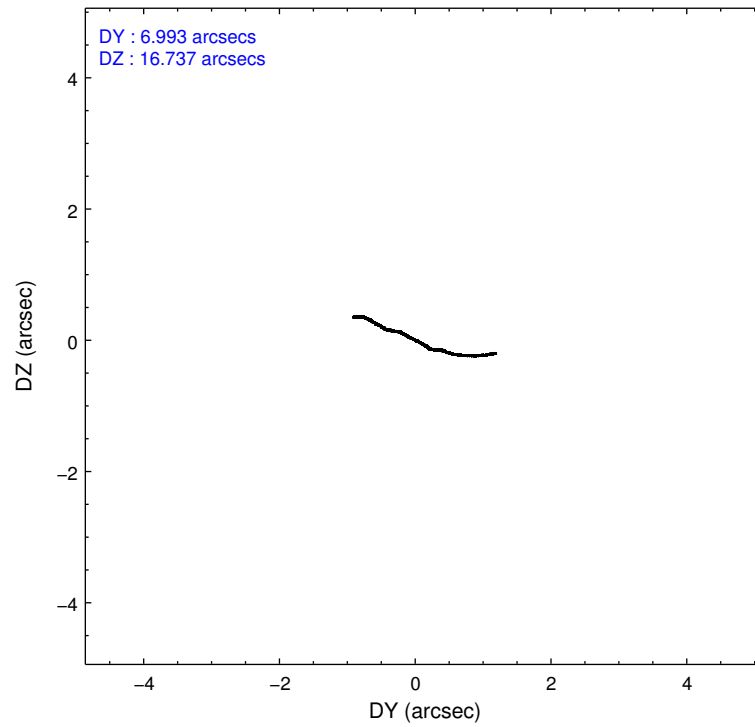
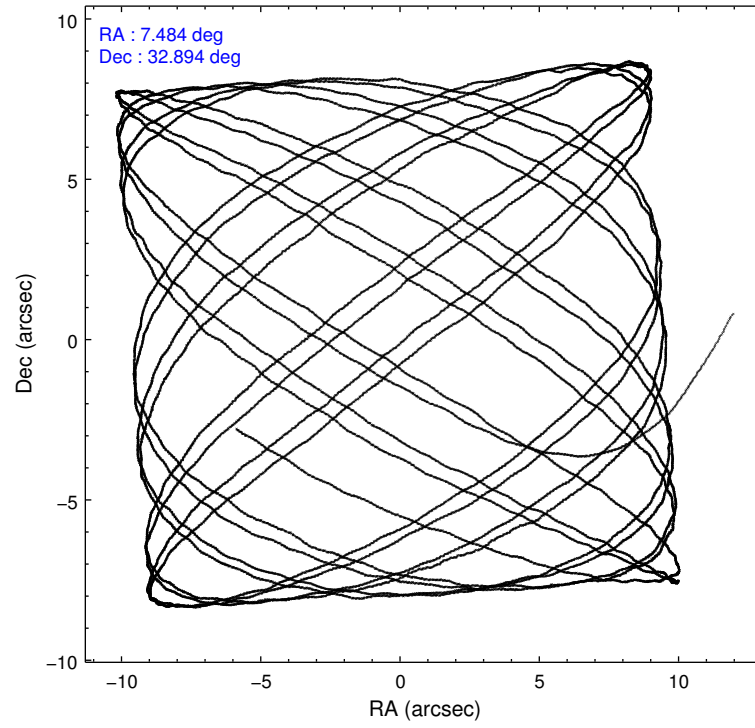
	ccd 6	ccd 7	ccd 8
level 1 events	78815	97682	96600
rejected events	69258	55722	72556
rejected %	87%	57%	75%

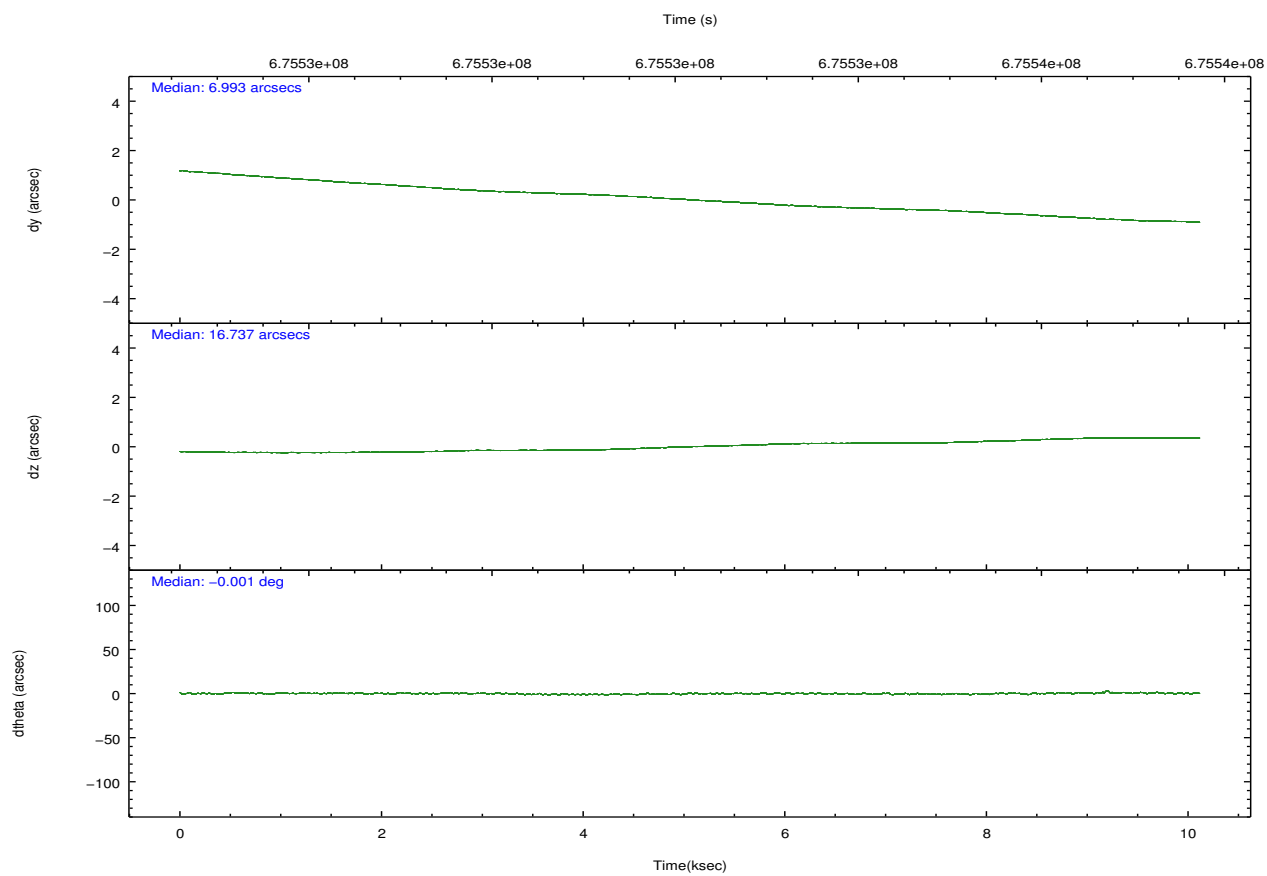
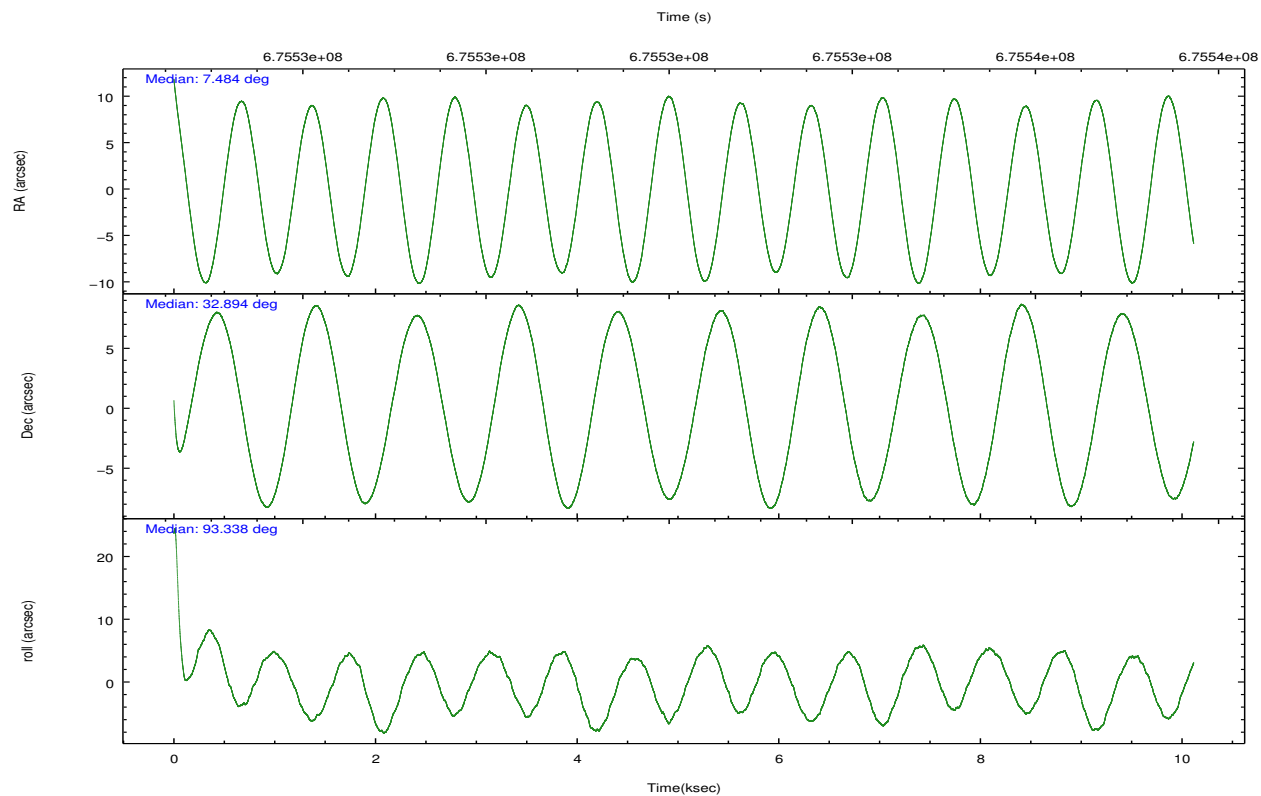
	ccd 6	ccd 7	ccd 8
grade 0 events	2445	3412	6632
	3%	3%	6%
grade 1 events	35	157	58
	0%	0%	0%
grade 2 events	3356	8924	5911
	4%	9%	6%
grade 3 events	715	3218	2364
	0%	3%	2%
grade 4 events	693	3138	2276
	0%	3%	2%
grade 5 events	3130	9359	5095
	3%	9%	5%
grade 6 events	2352	23284	6889
	2%	23%	7%
grade 7 events	66089	46190	67375
	83%	47%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	7.502311	7.48400415345958	Subarray requested	NONE	NONE
[deg] Pointing Dec	32.871291	32.89401057927959	Alternating exposures requested	N	N
[deg] Pointing Roll	93.180066	93.34666814532331	[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)	675527194.184000	675525830.53001			
Observation start date	2019-05-29T14:25:25	2019-05-29T14:03:50			
[s] Observation end time (MET)	675537194.184000	675538077.23074			
Observation end date	2019-05-29T17:12:05	2019-05-29T17:27:57			
Read mode	TIMED	TIMED			

2.3 Aspect



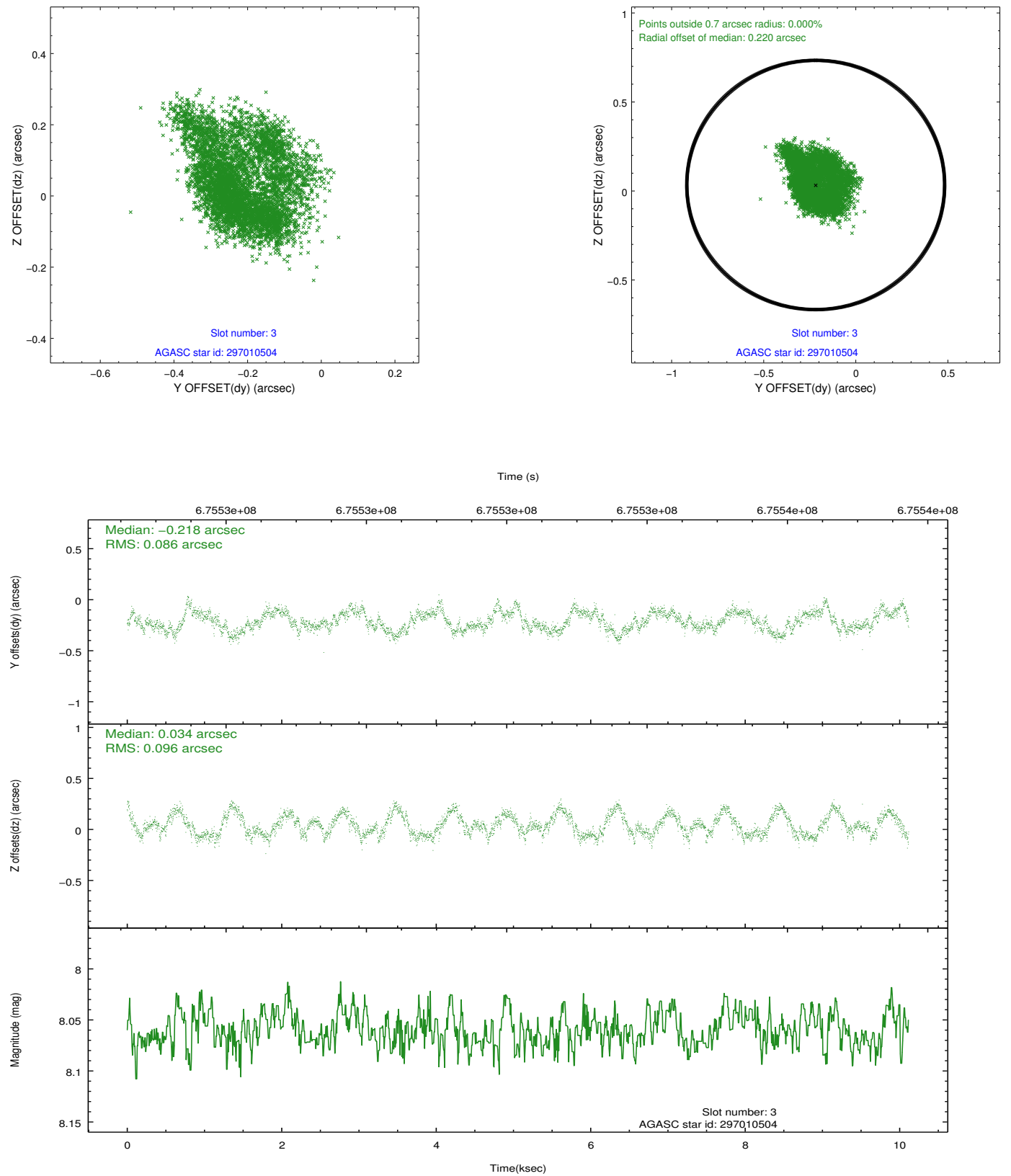


Slot Statistics

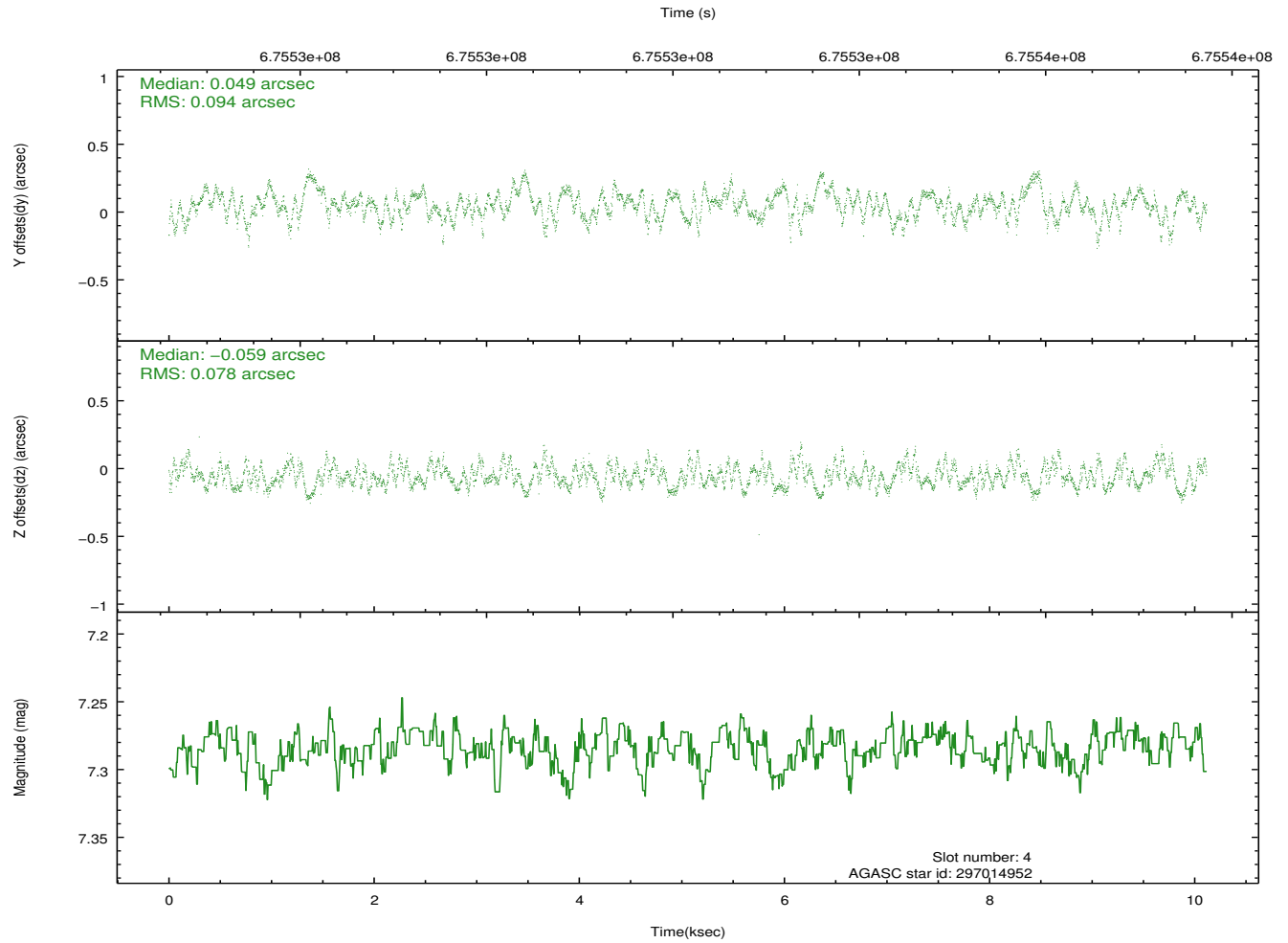
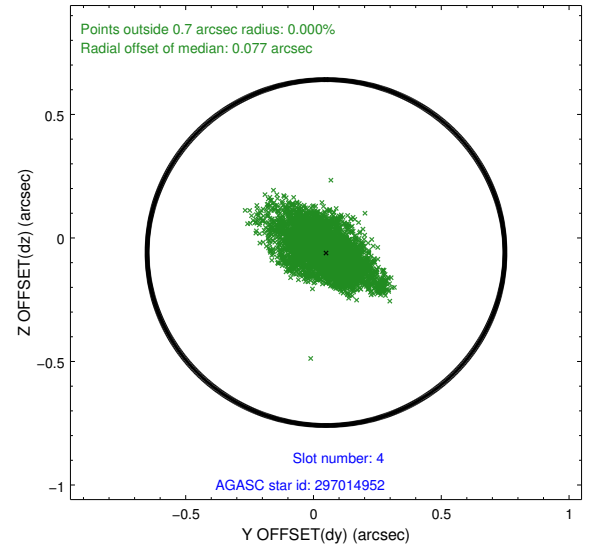
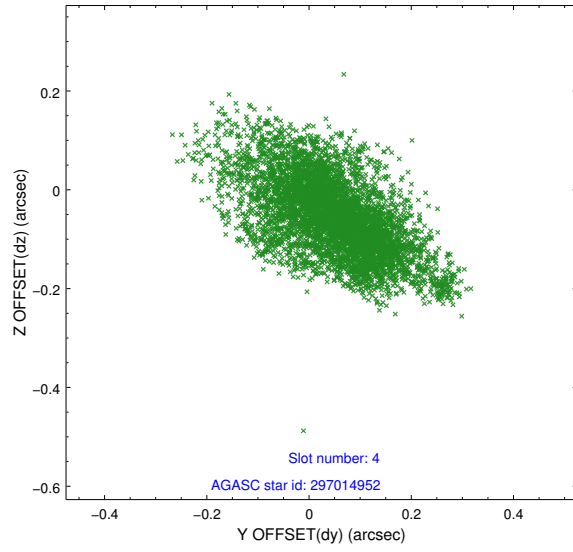
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.08	2468	1.000	-0.254	-0.138	0.019	0.035	0.000000	0.000000	-760.15	-1738
1	FID		ACIS-S-3	7.34	2468	1.000	-0.191	-0.216	0.029	0.044	0.000000	0.000000	52.81	-1868
2	FID		ACIS-S-4	7.21	2467	1.000	0.420	0.356	0.014	0.025	0.000000	0.000000	2154.02	169
3	GUIDE	used	297010504	8.06	4935	1.000	-0.218	0.034	0.140	0.216	7.619984	33.062810	669.14	-392
4	GUIDE	used	297014952	7.28	4936	1.000	0.049	-0.059	0.126	0.227	7.119039	32.437750	-1491.57	1249
5	GUIDE	used	297015456	7.87	4935	1.000	0.233	0.250	0.116	0.185	7.786360	32.723133	-578.94	-829
6	GUIDE	used	297017544	8.09	4936	1.000	-0.031	0.081	0.104	0.192	8.091981	33.452565	1996.79	-1884
7	GUIDE	used	297017680	7.52	4932	1.000	-0.043	-0.311	0.105	0.168	7.412875	32.987121	431.84	246

2.4 Star Slots

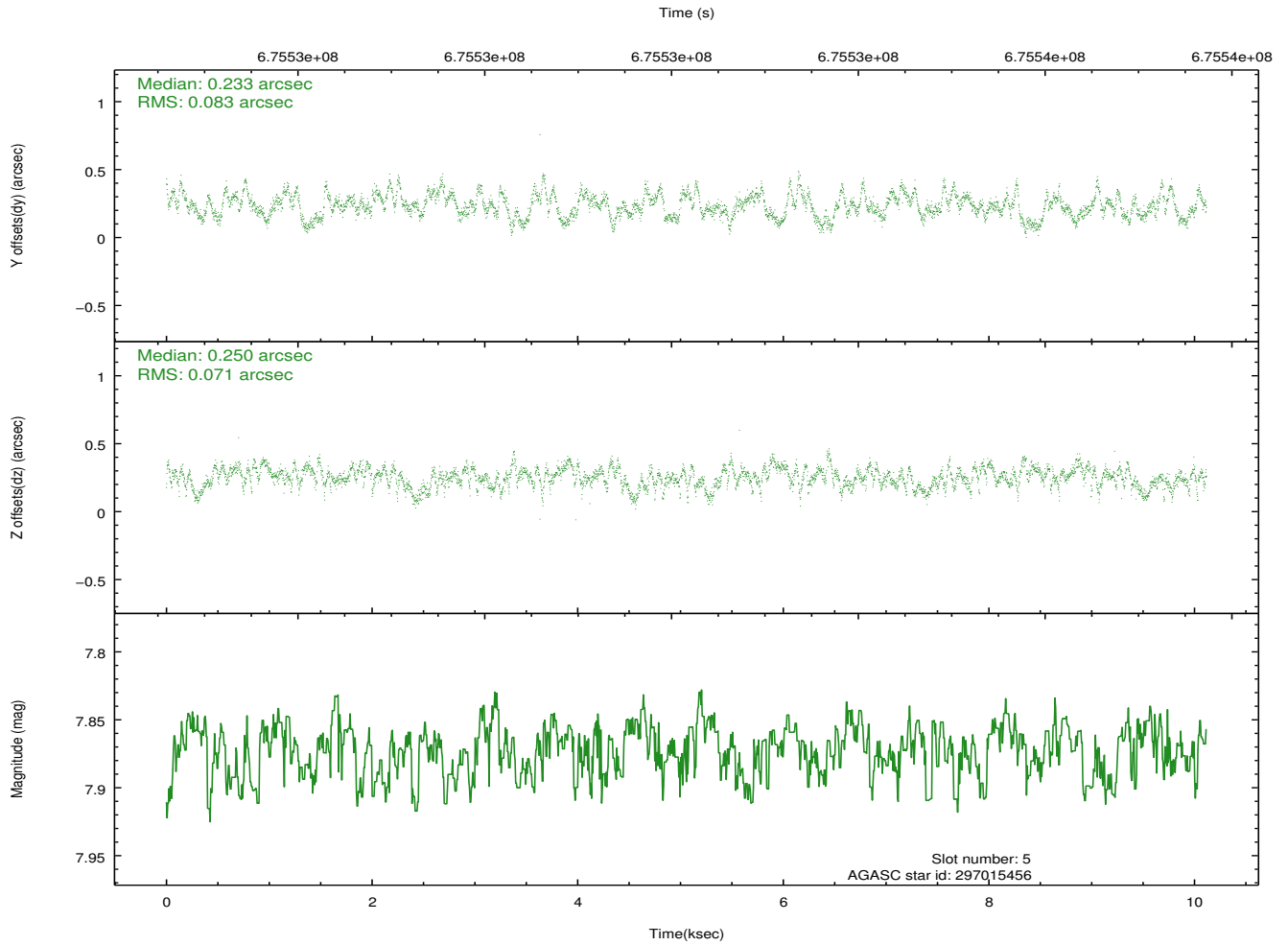
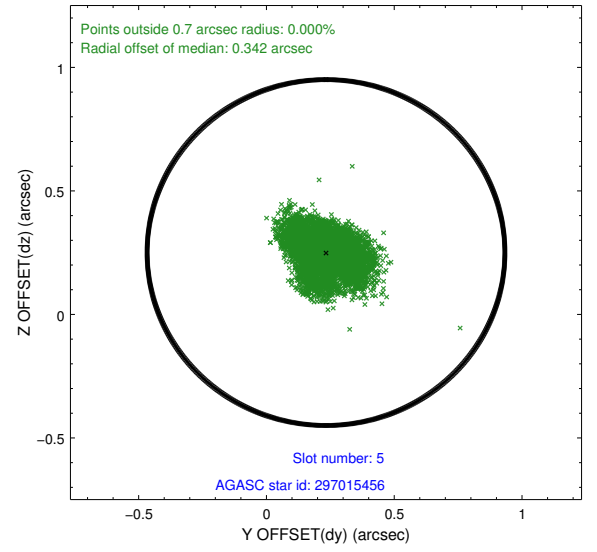
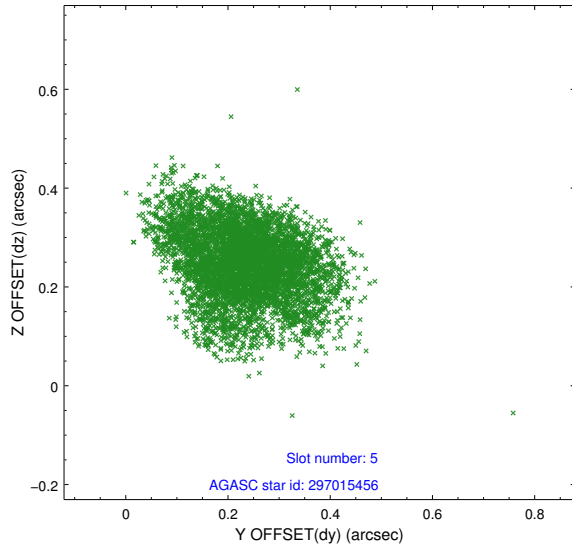
2.4.1 Slot 3



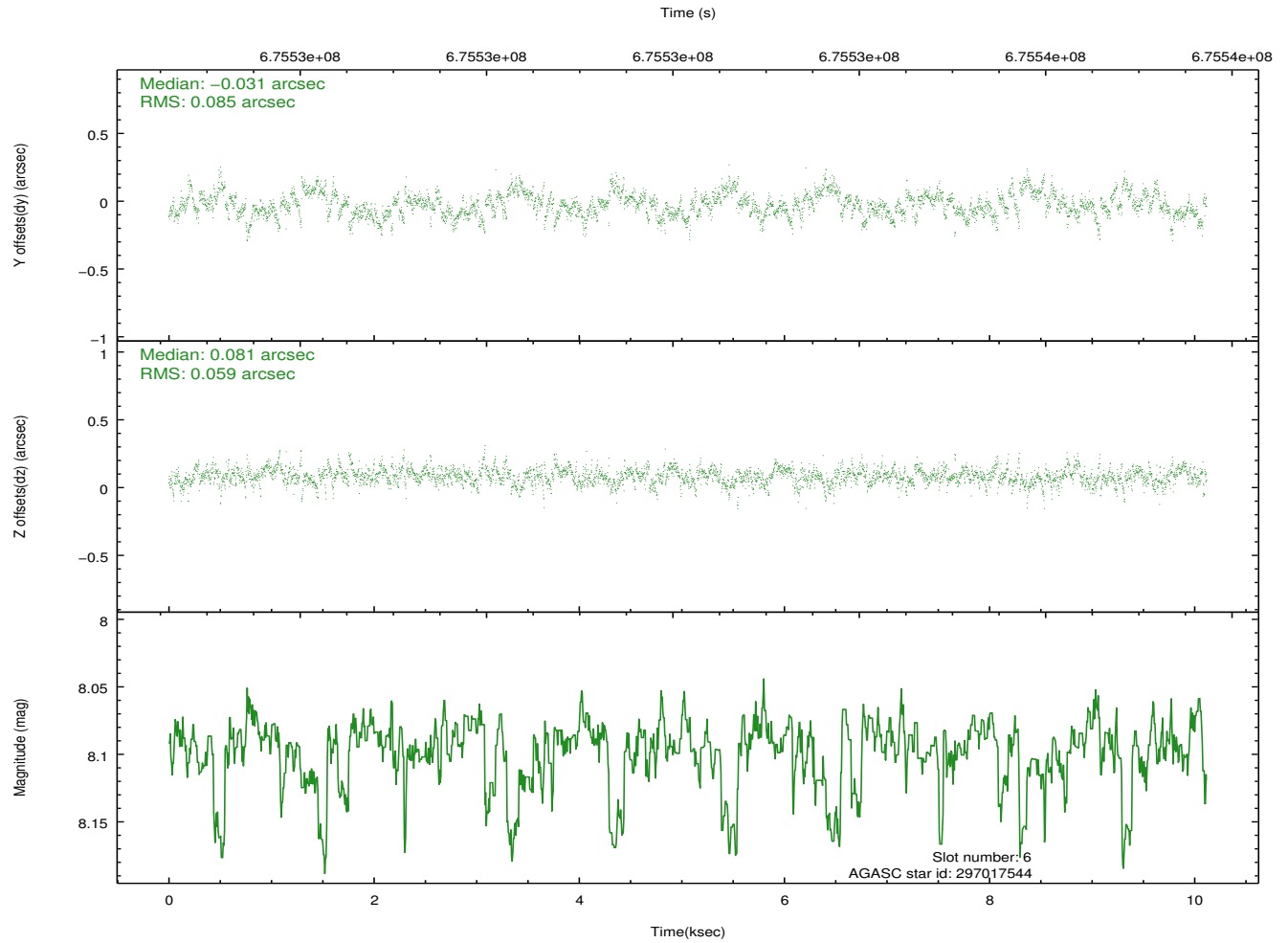
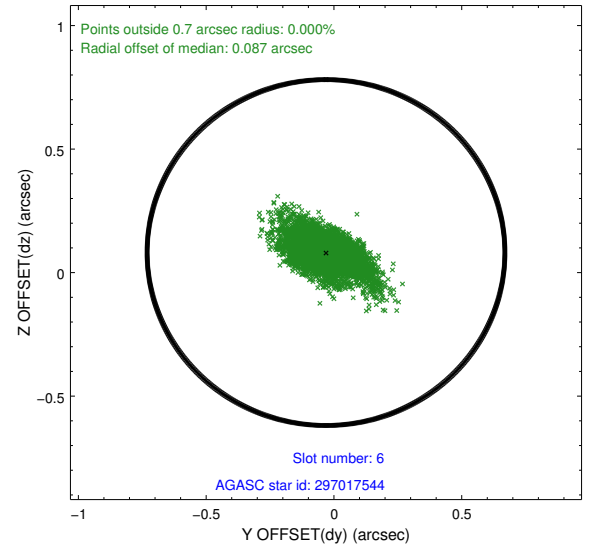
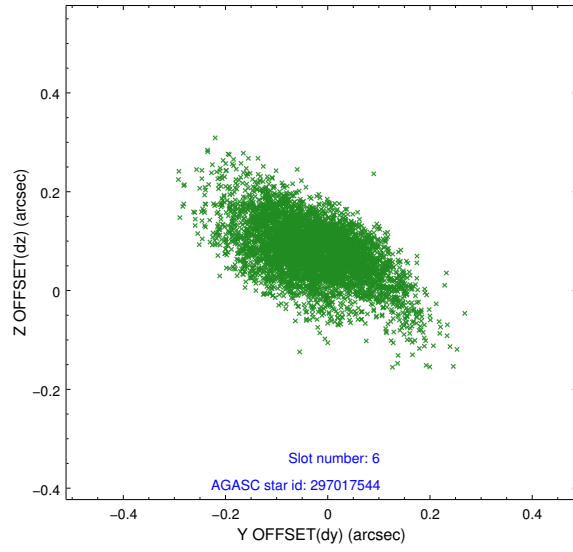
2.4.2 Slot 4



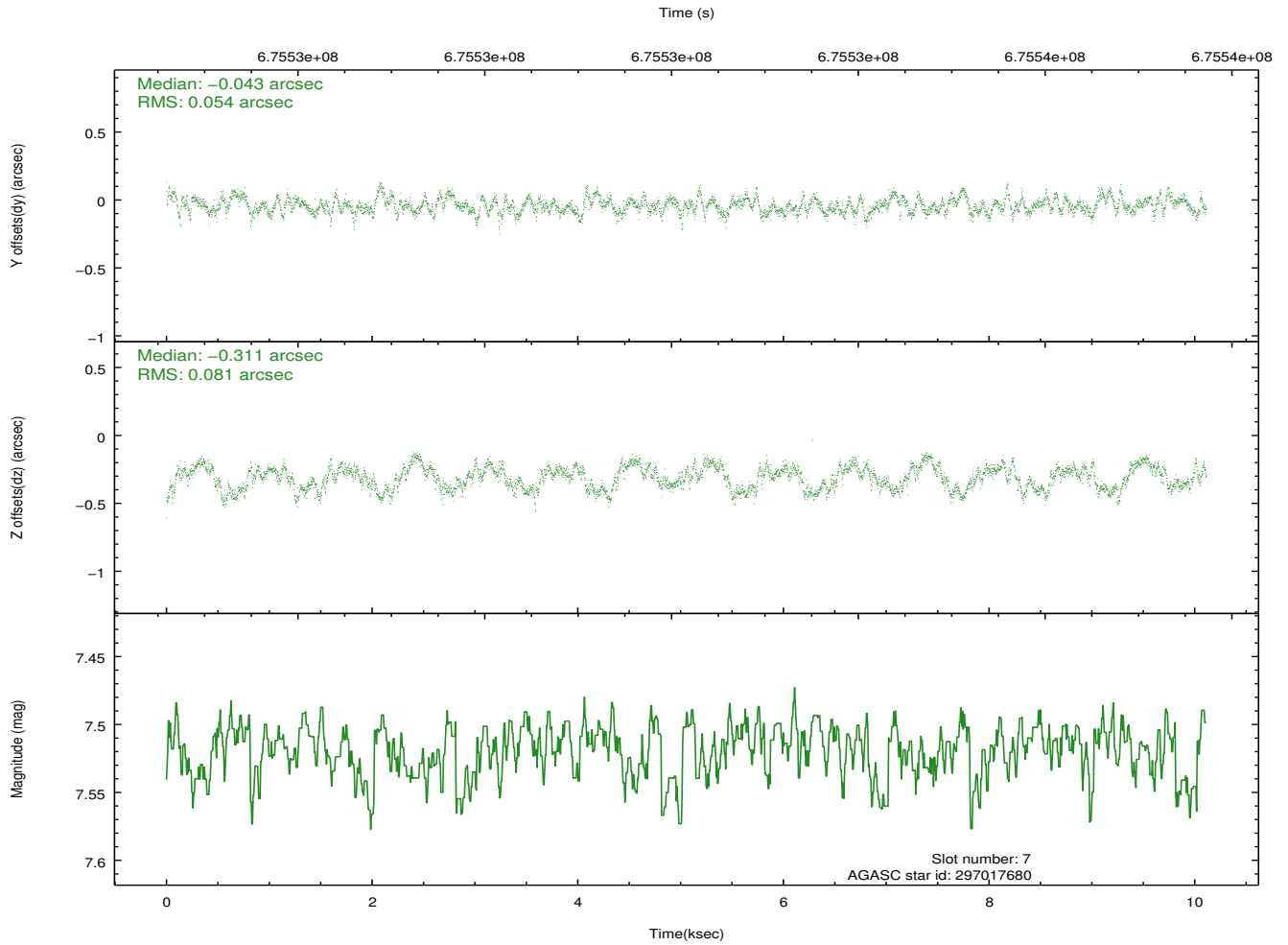
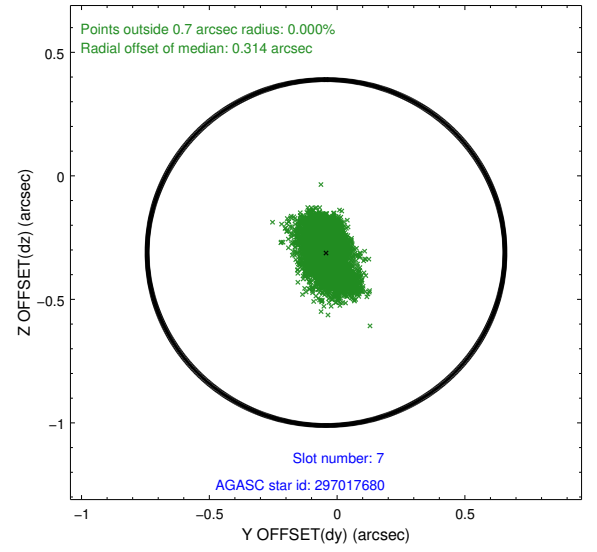
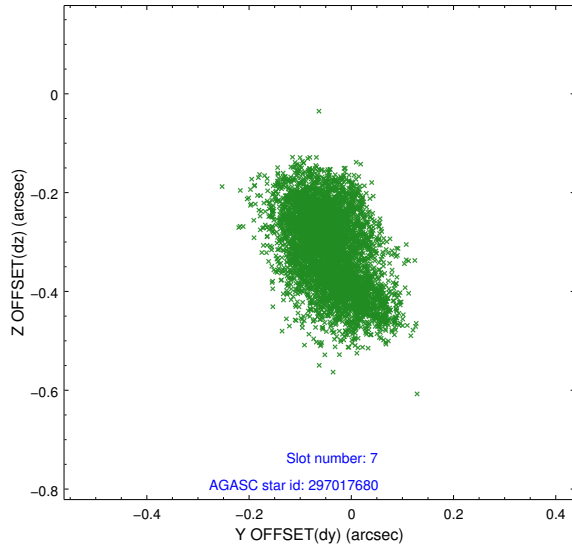
2.4.3 Slot 5



2.4.4 Slot 6

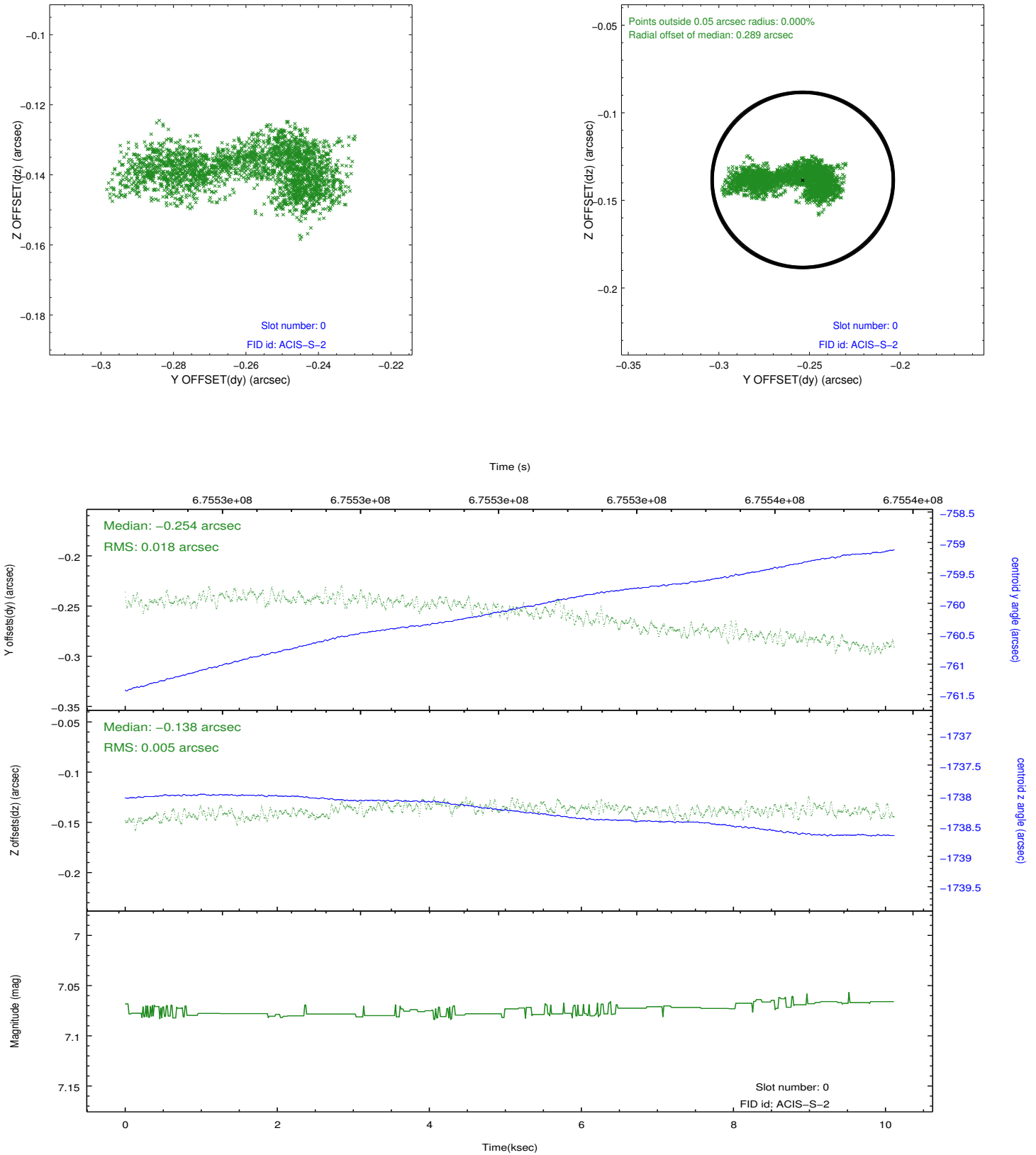


2.4.5 Slot 7

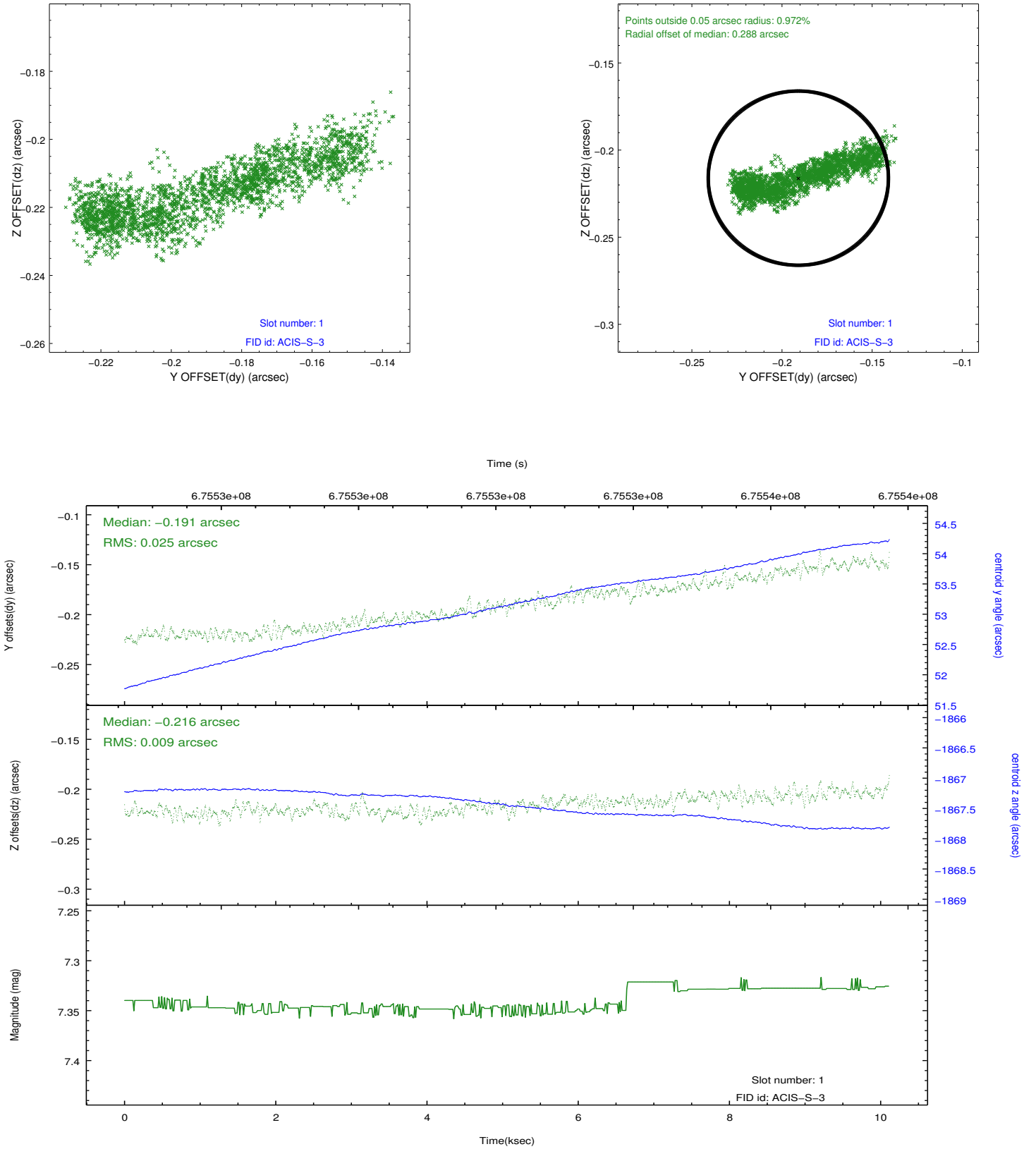


2.5 FID Slots

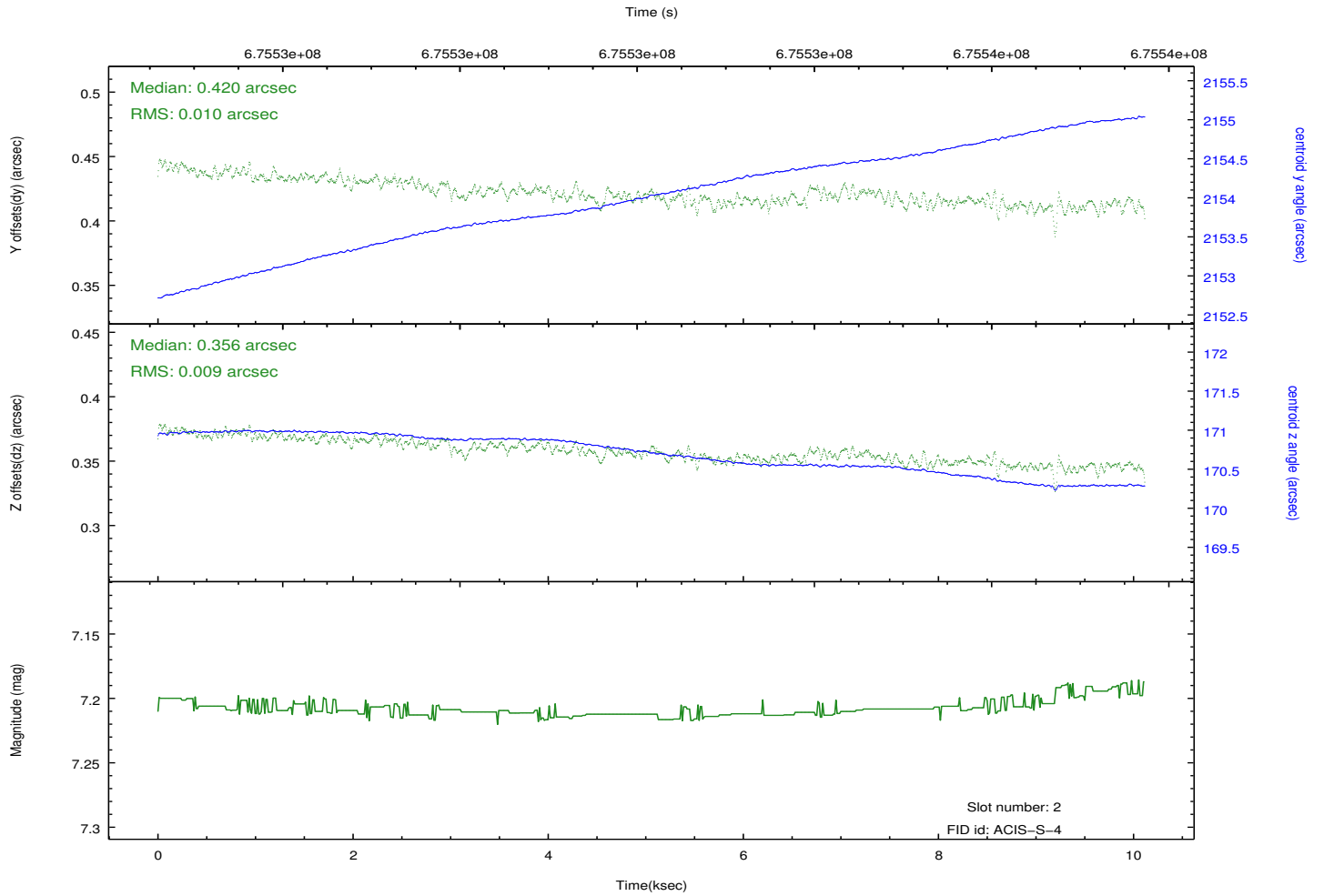
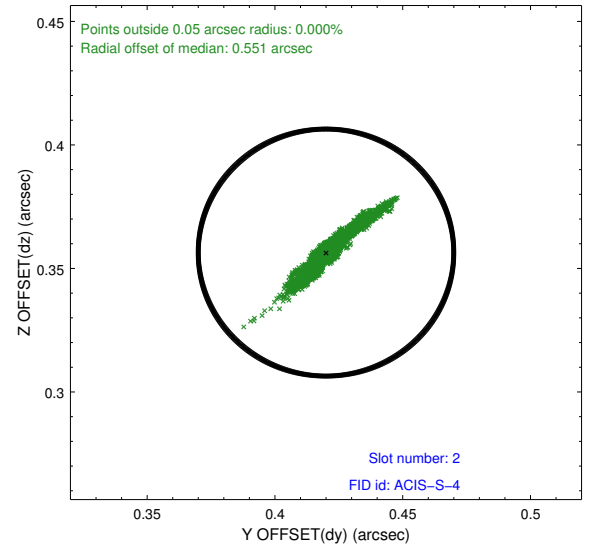
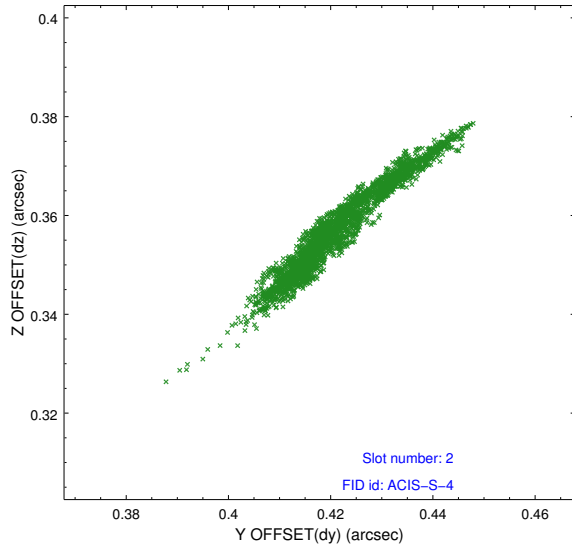
2.5.1 Slot 0



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)	2019.05.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.109100077868

A.2 Comments