

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20356 - L2 Version 1
Chandra X-Ray Center

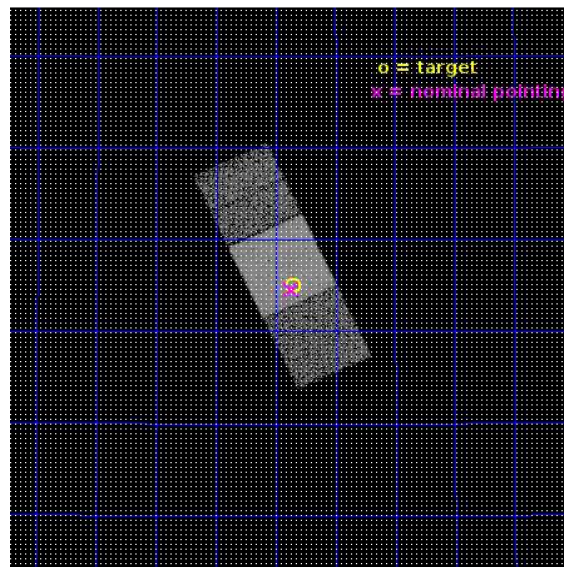
L2 Processing Date : Dec 1 2017

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

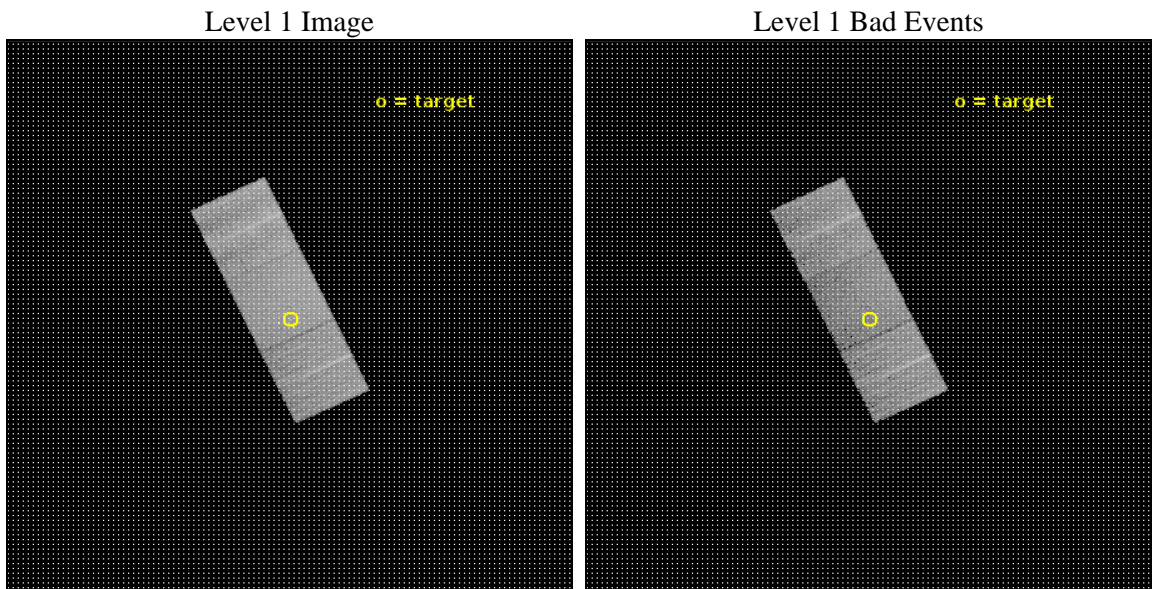
seq_num	601422	Sequence number
obs_id	20356	Observation id
title	An accurate Chandra localization of NGC 925 J0227+33: identifying the donor star of an ultraluminous X-ray source	Proposal title
observer	Marianne Heida	Principal investigator
object	CXOU J022721.5+333500	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.839583	Observer's specified target RA [deg]
dec_targ	33.583556	Observer's specified target Dec [deg]
ra_nom	36.842338150428	Nominal RA [deg]
dec_nom	33.57645398342	Nominal Dec [deg]
roll_nom	244.65510496601	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10108.479692459	Sum of GTIs [s]
livetime	9976.4049635226	Livetime [s]
ontime6	10108.438652515	Sum of GTIs [s]
ontime7	10108.479692459	Sum of GTIs [s]
ontime8	10108.397612453	Sum of GTIs [s]
l2events	54786	Number of level 2 events



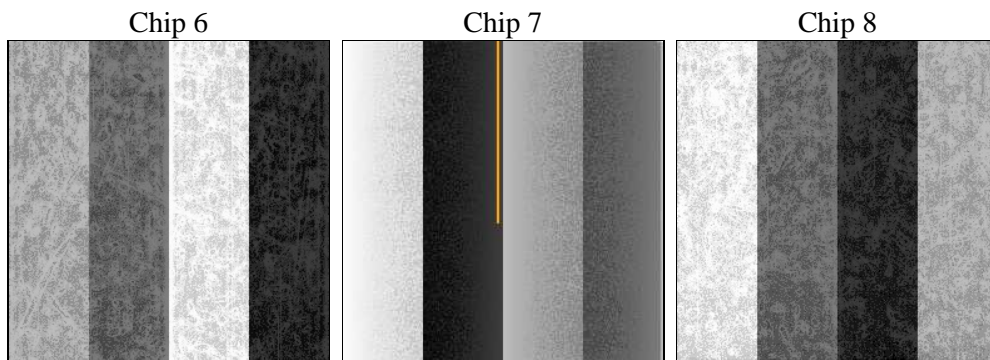
2 OBI

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	10.6	Processing system revision	ontime	10108.479692459	Sum of GTIs [s]
caldsver	4.7.6	 	ontime6	10108.438652515	Sum of GTIs [s]
date	2017-12-01T14:02:02	Date and time of file creation	ontime7	10108.479692459	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	10108.397612453	Sum of GTIs [s]
			l1events	261289	Number of level 1 events

2.1.4 Events

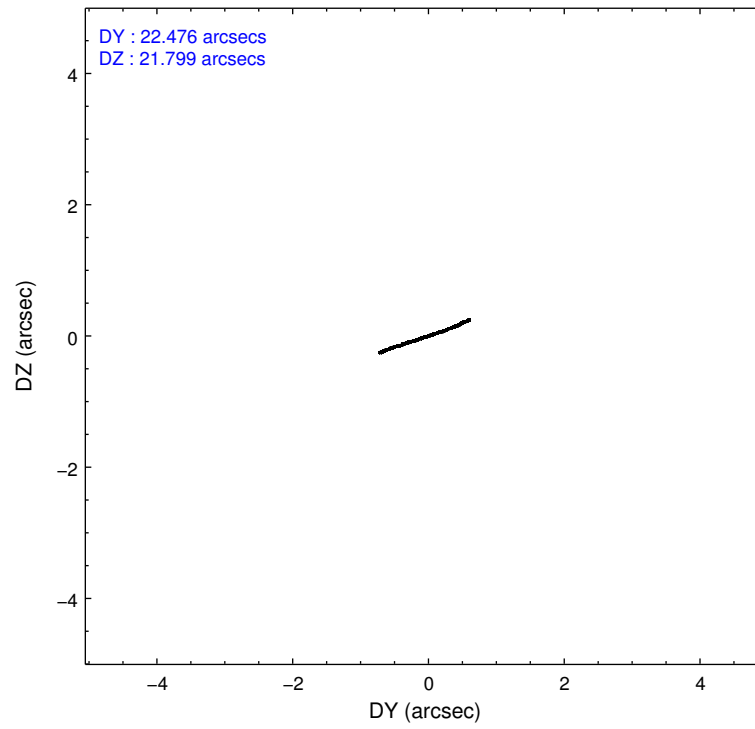
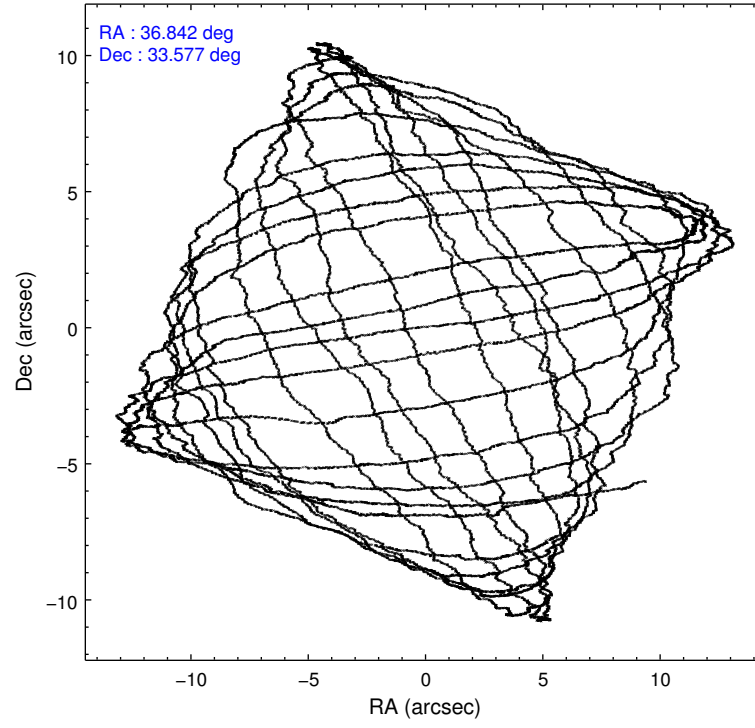
	ccd 6	ccd 7	ccd 8
level 1 events	75702	92712	92875
rejected events	67429	51631	68722
rejected %	89%	55%	73%

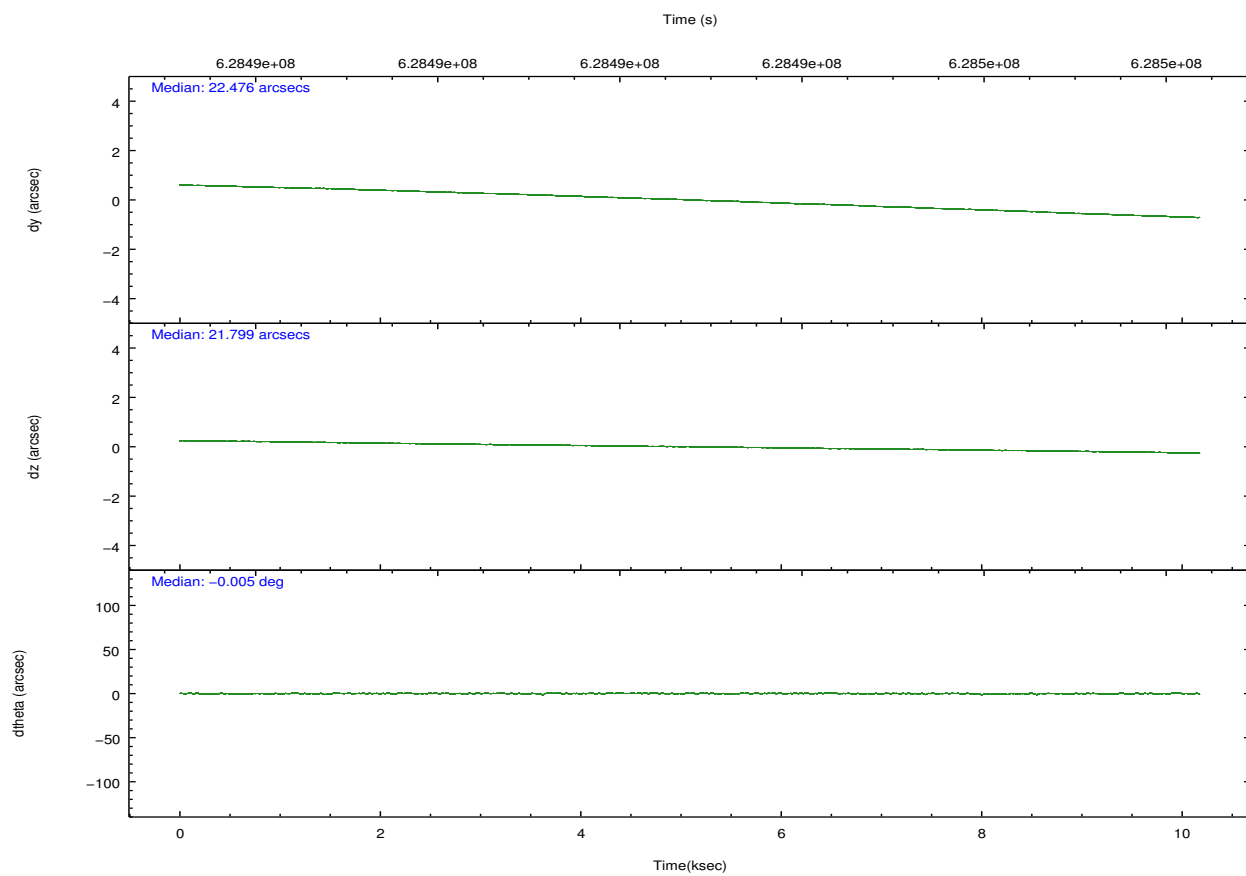
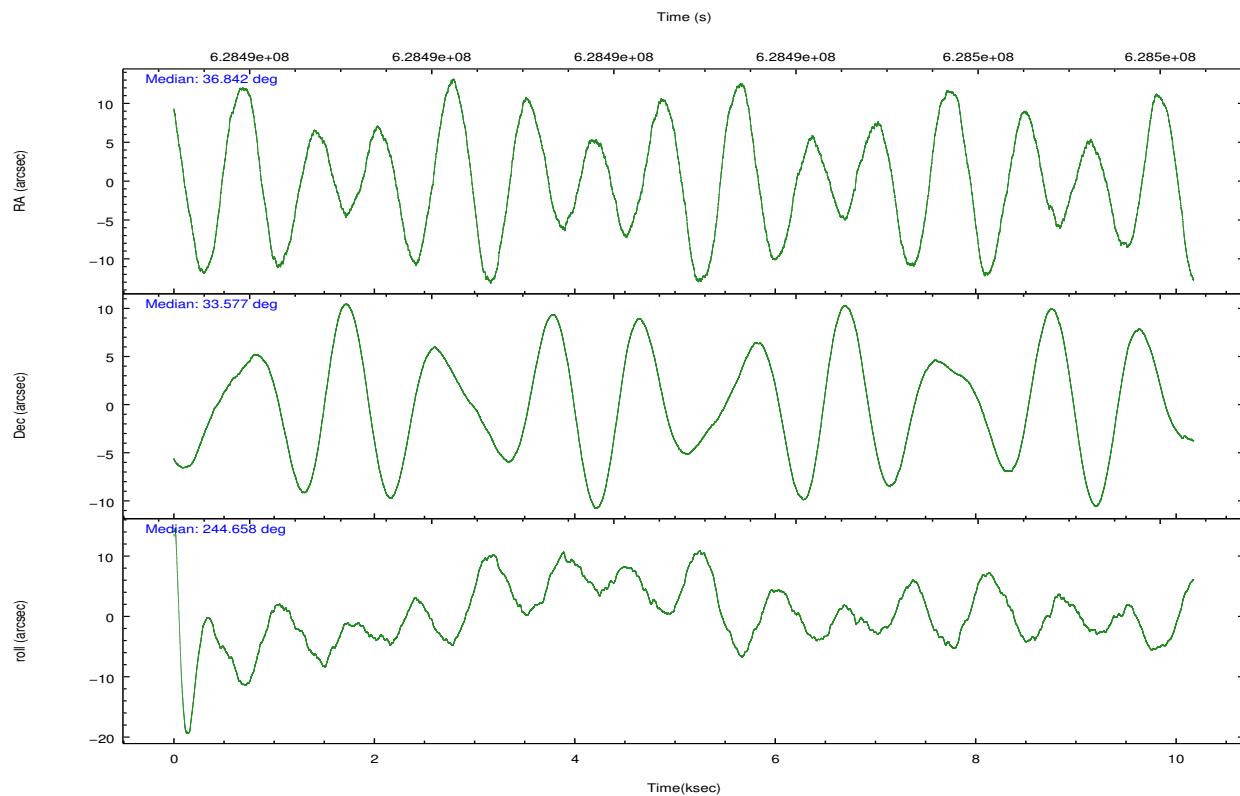
	ccd 6	ccd 7	ccd 8
grade 0 events	2591	3680	6624
	3%	3%	7%
grade 1 events	37	140	75
	0%	0%	0%
grade 2 events	2008	8754	5995
	2%	9%	6%
grade 3 events	766	3436	2427
	1%	3%	2%
grade 4 events	761	3344	2293
	1%	3%	2%
grade 5 events	3229	9036	4909
	4%	9%	5%
grade 6 events	2151	21893	6820
	2%	23%	7%
grade 7 events	64159	42429	63732
	84%	45%	68%

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	36.839236	36.84233815042822	Subarray requested	NONE	NONE
[deg] Pointing Dec	33.603804	33.57645398342035	Alternating exposures requested	N	N
[deg] Pointing Roll	244.500195	244.655104966012	[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)	628487864.184000	628486719.84542			
Observation start date	2017-12-01T03:56:35	2017-12-01T03:38:39			
[s] Observation end time (MET)	628497864.184000	628499046.49615			
Observation end date	2017-12-01T06:43:15	2017-12-01T07:04:06			
Read mode	TIMED	TIMED			

2.3 Aspect



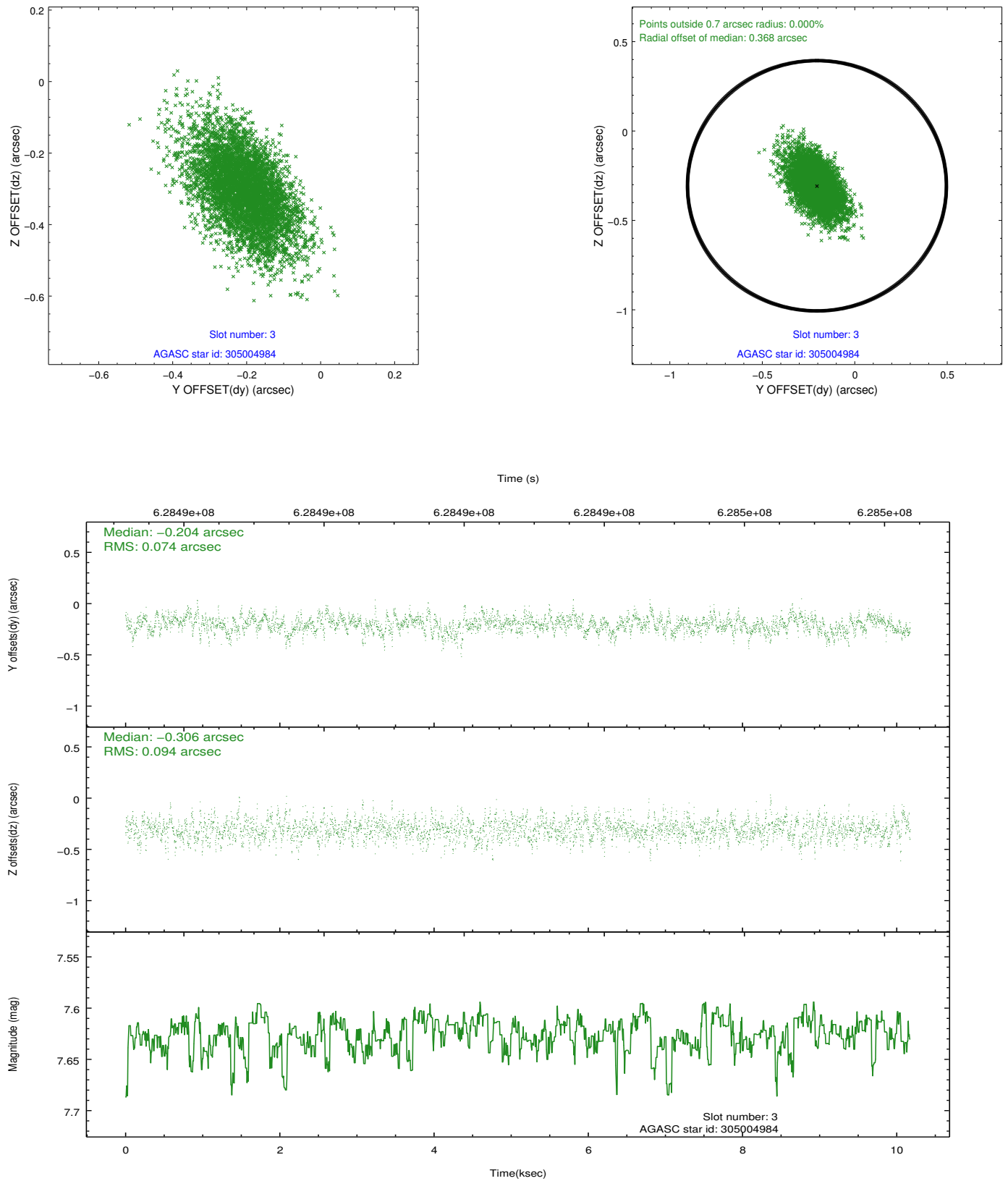


Slot Statistics

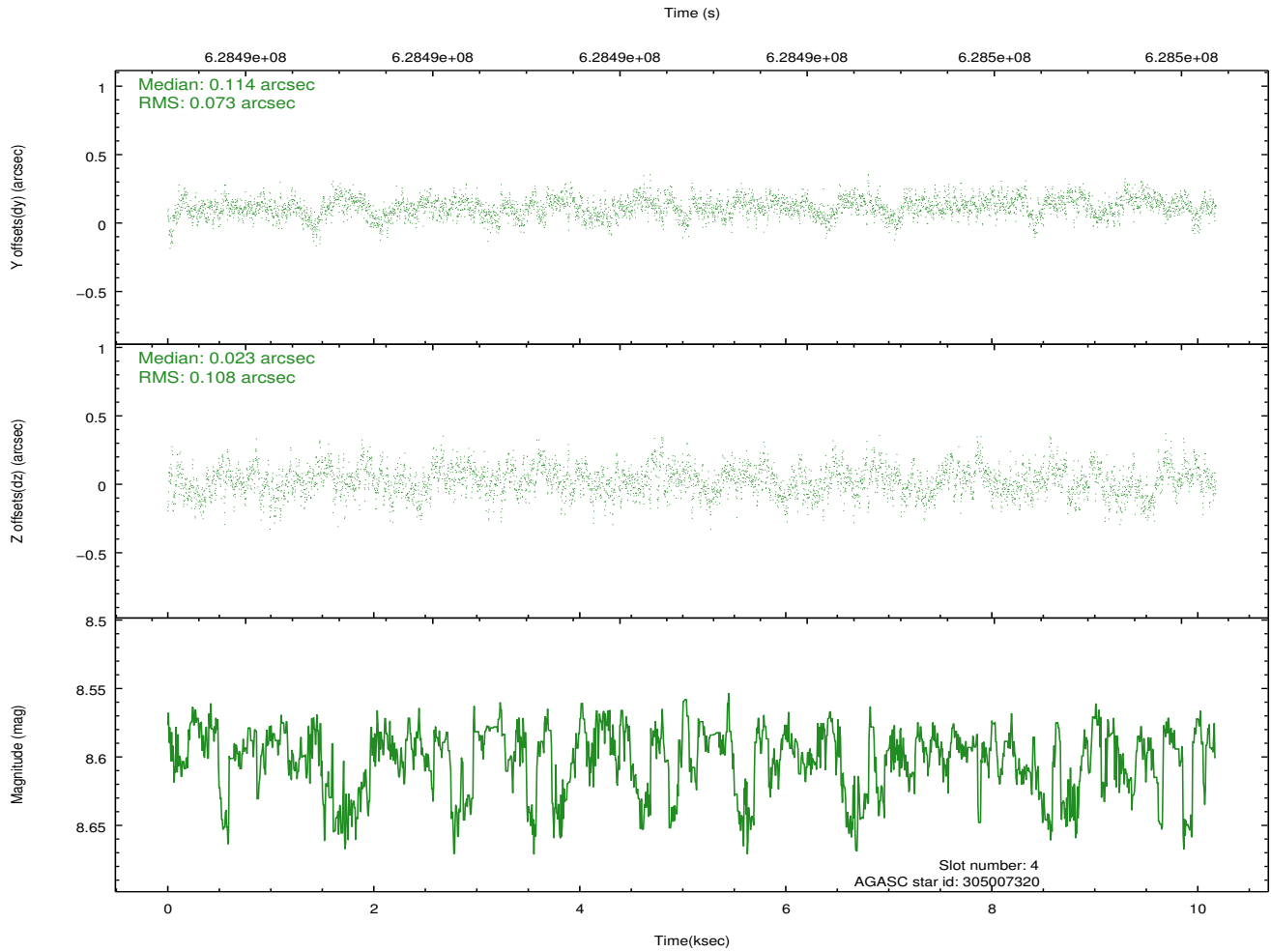
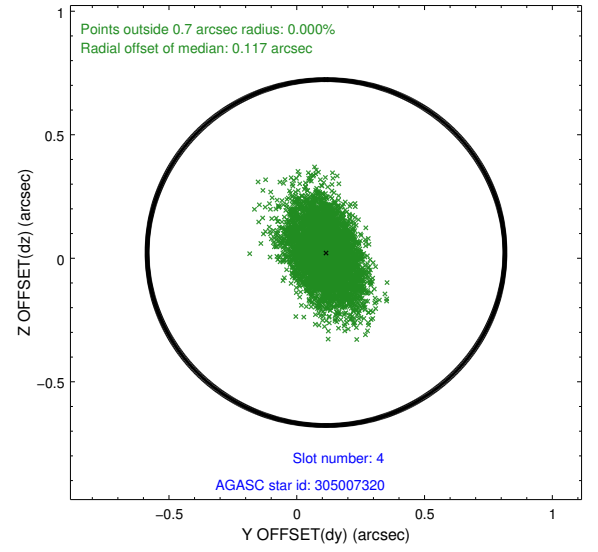
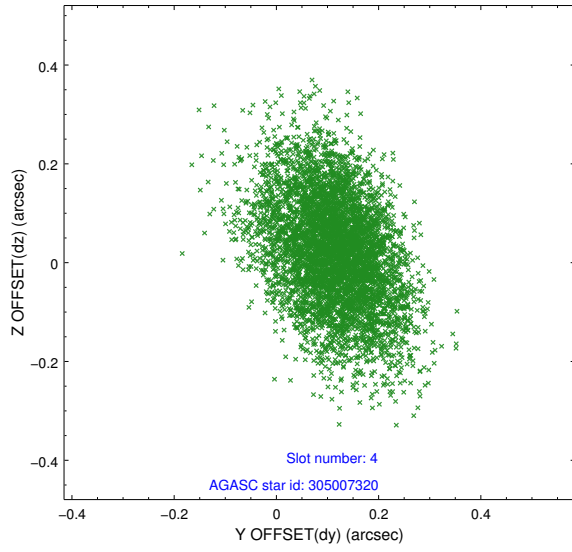
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.08	2482	-0.246	-0.188	0.008	0.013	0.000000	0.000000	-775.85	-1743.56
1	FID		ACIS-S-4	7.20	2482	0.596	0.169	0.012	0.019	0.000000	0.000000	2138.00	164.78
2	FID		ACIS-S-5	7.21	2483	-0.382	0.028	0.012	0.023	0.000000	0.000000	-1828.19	158.85
3	GUIDE	used	305004984	7.63	4964	-0.204	-0.306	0.122	0.218	37.558257	33.498591	-594.12	2107.91
4	GUIDE	used	305007320	8.60	4959	0.114	0.023	0.136	0.230	37.379489	33.490246	-333.13	1638.74
5	GUIDE	used	305019816	8.66	4958	-0.020	-0.190	0.146	0.250	37.530455	33.406494	-259.31	2178.58
6	GUIDE	used	305535352	7.35	4963	0.426	0.578	0.130	0.222	37.062178	34.195534	-2208.87	-316.99
7	GUIDE	used	305019272	9.44	4961	-0.313	-0.092	0.204	0.342	37.383903	33.172223	691.68	2148.76

2.4 Star Slots

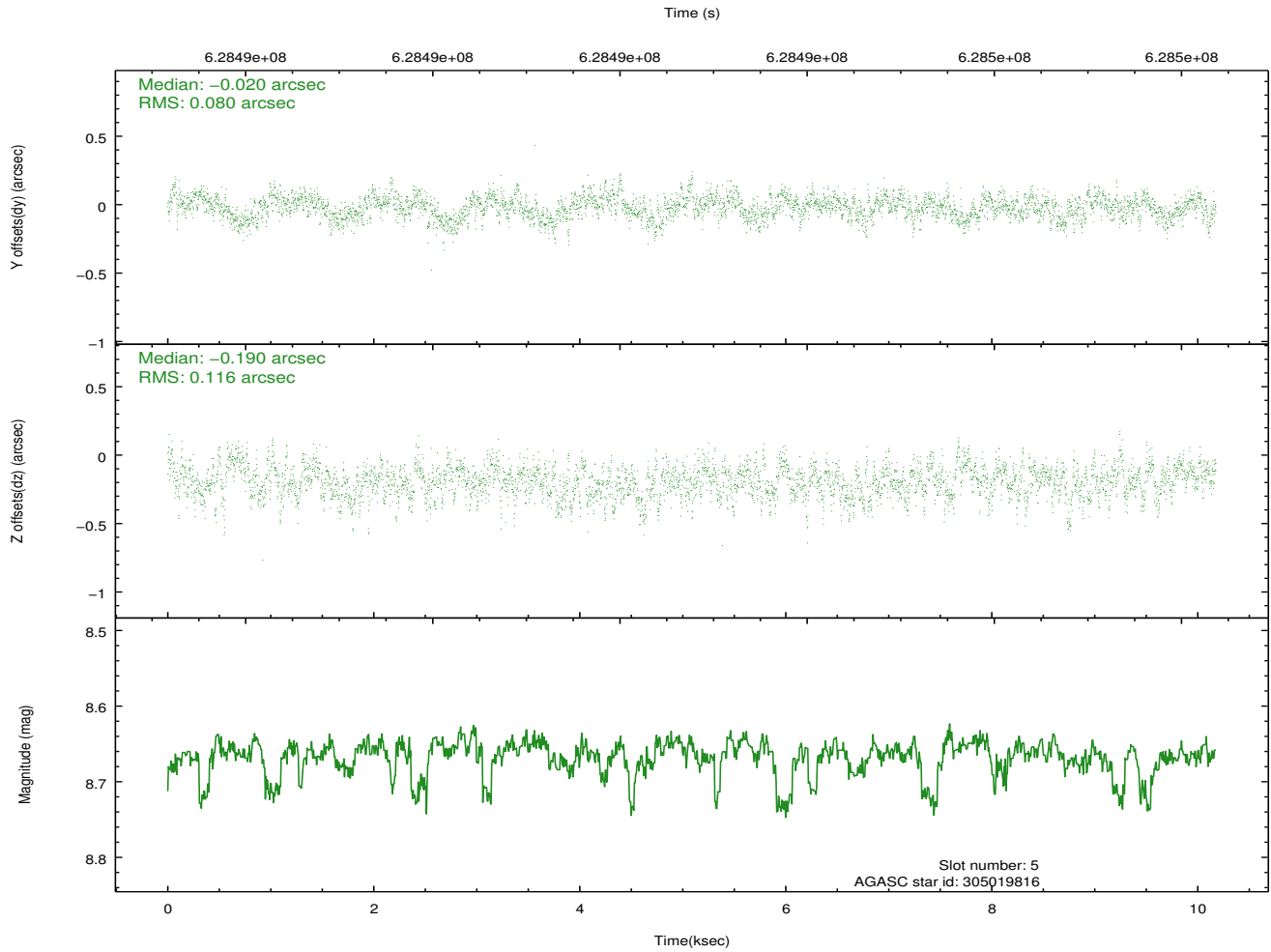
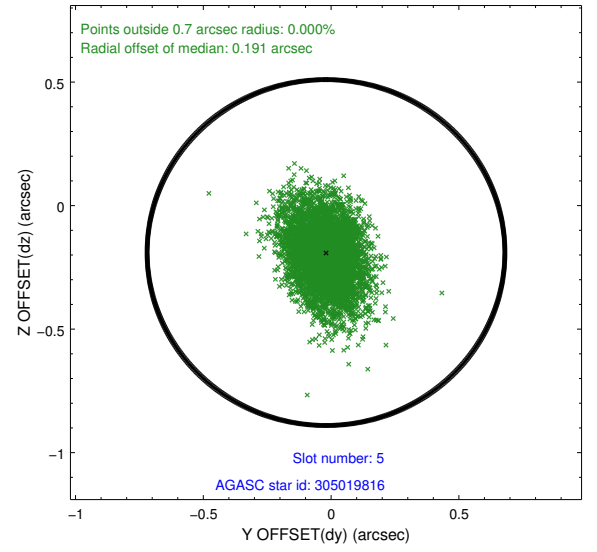
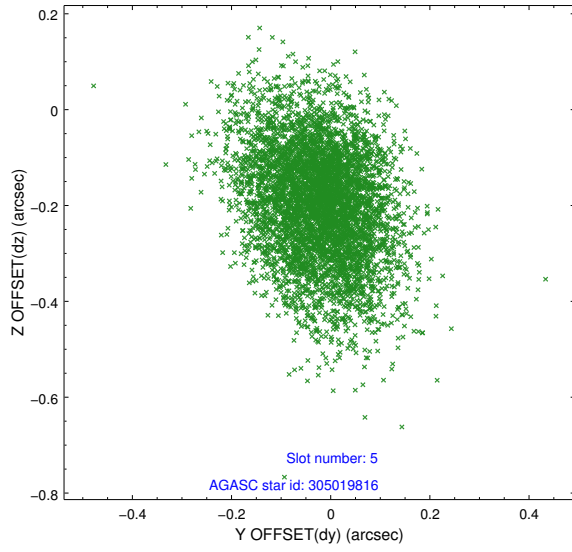
2.4.1 Slot 3



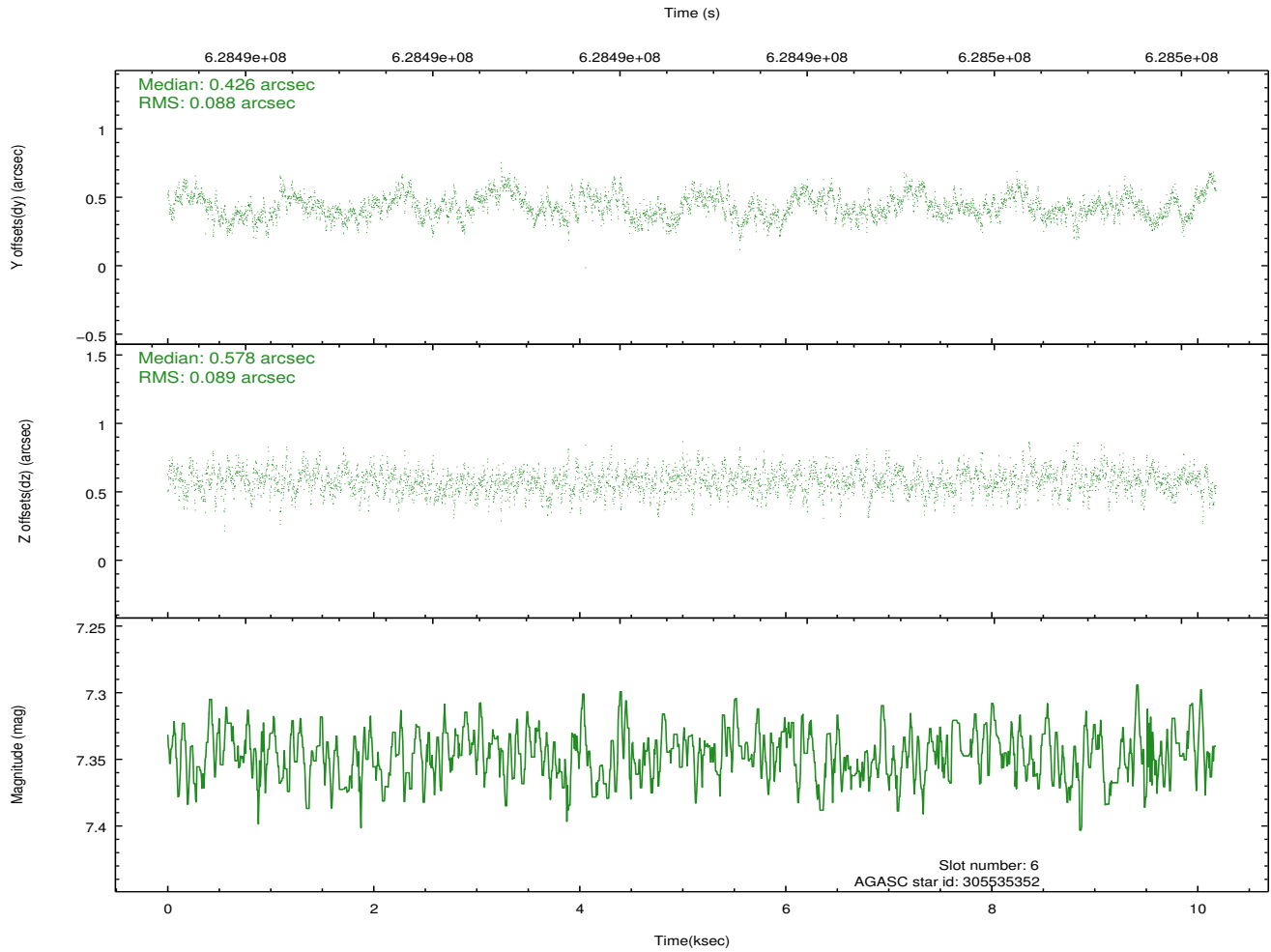
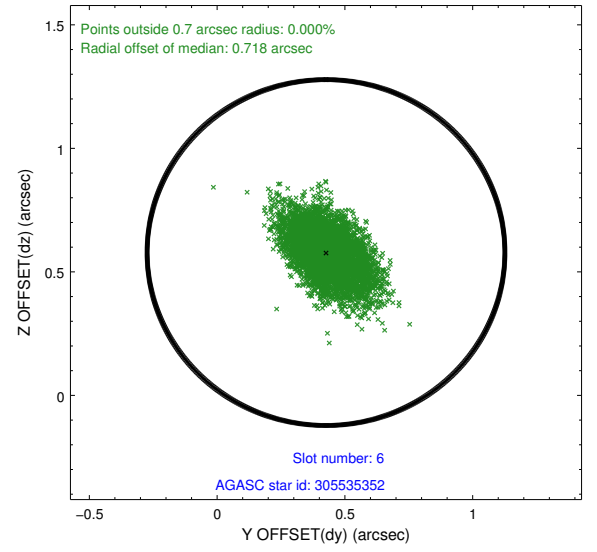
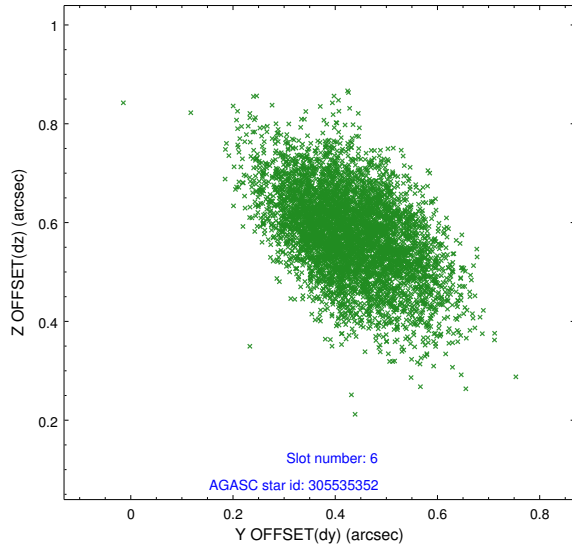
2.4.2 Slot 4



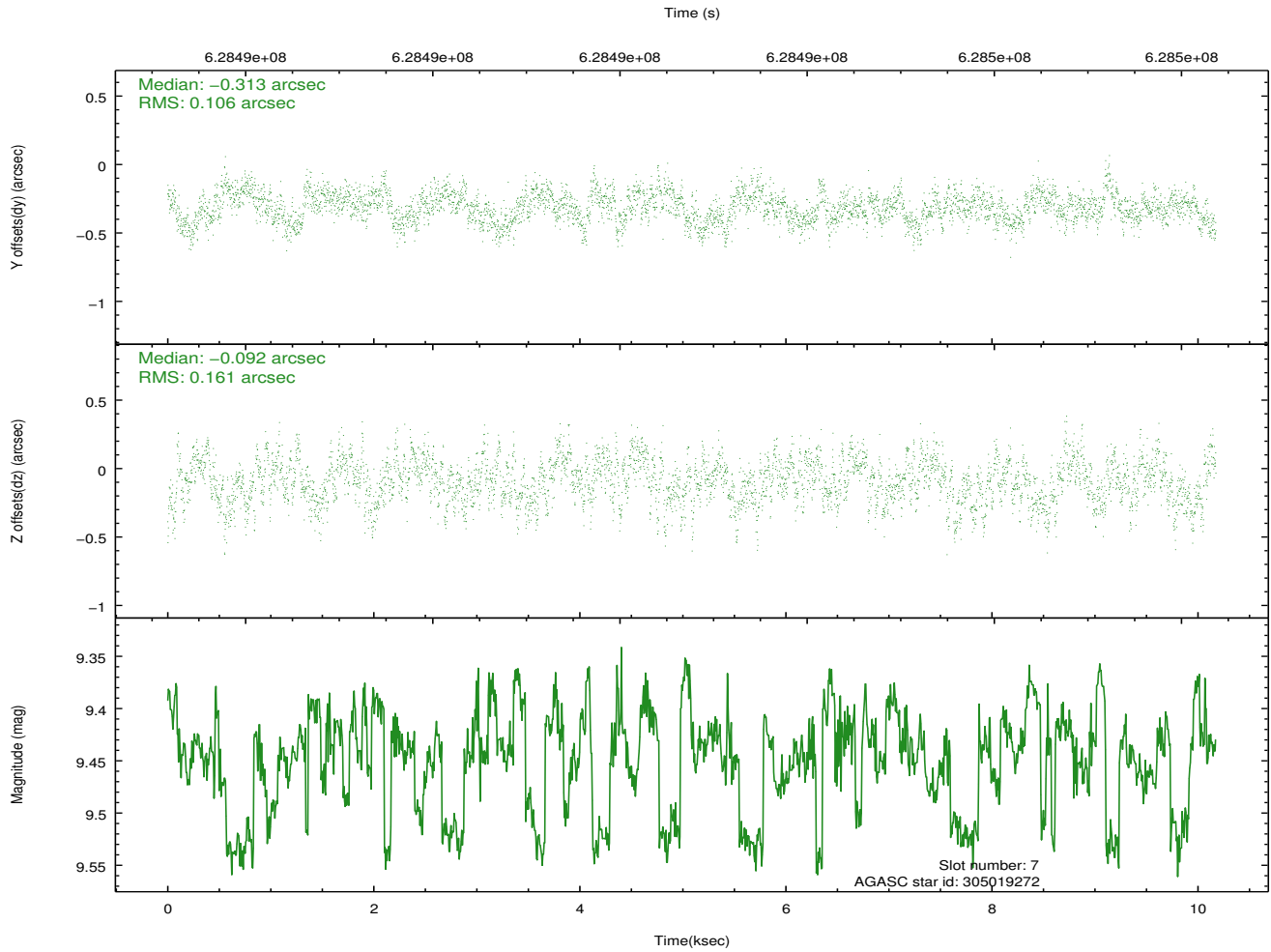
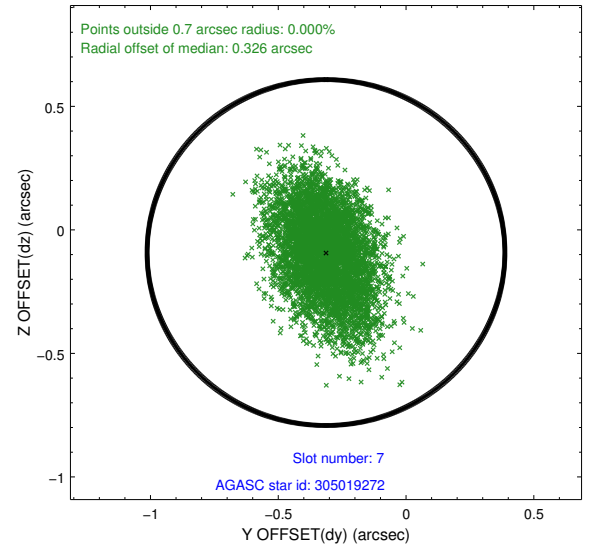
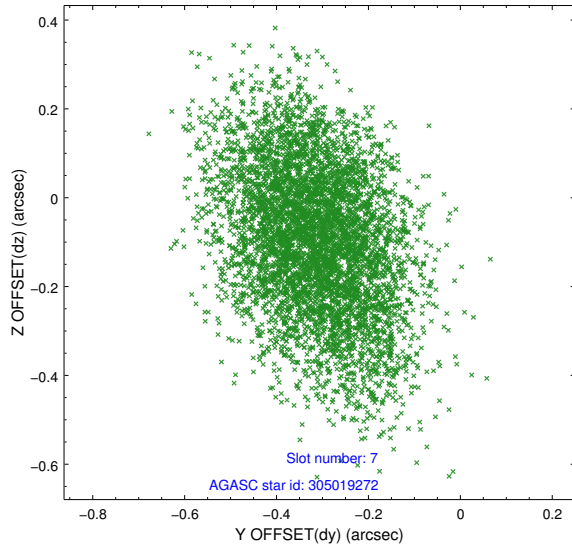
2.4.3 Slot 5



2.4.4 Slot 6

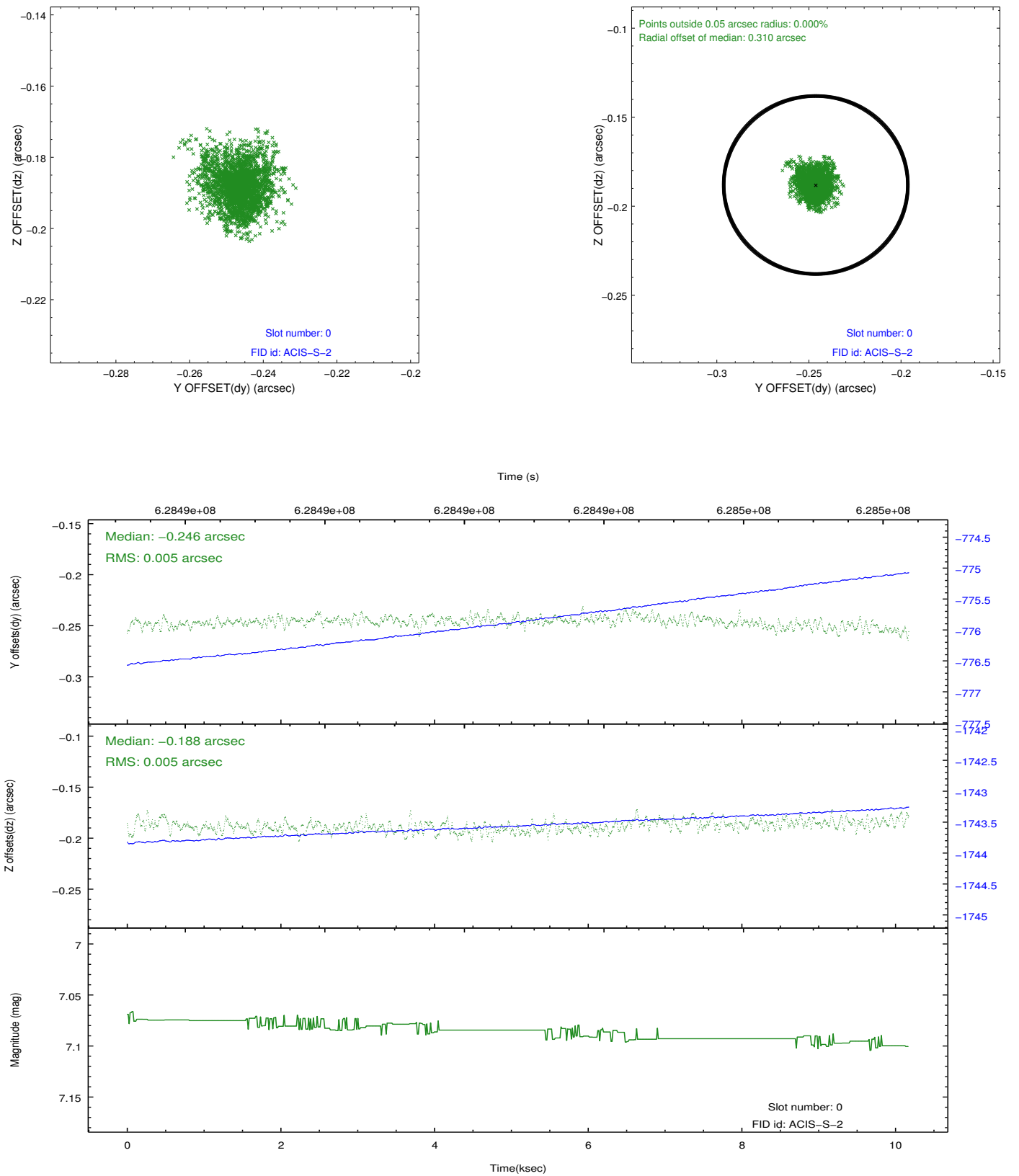


2.4.5 Slot 7

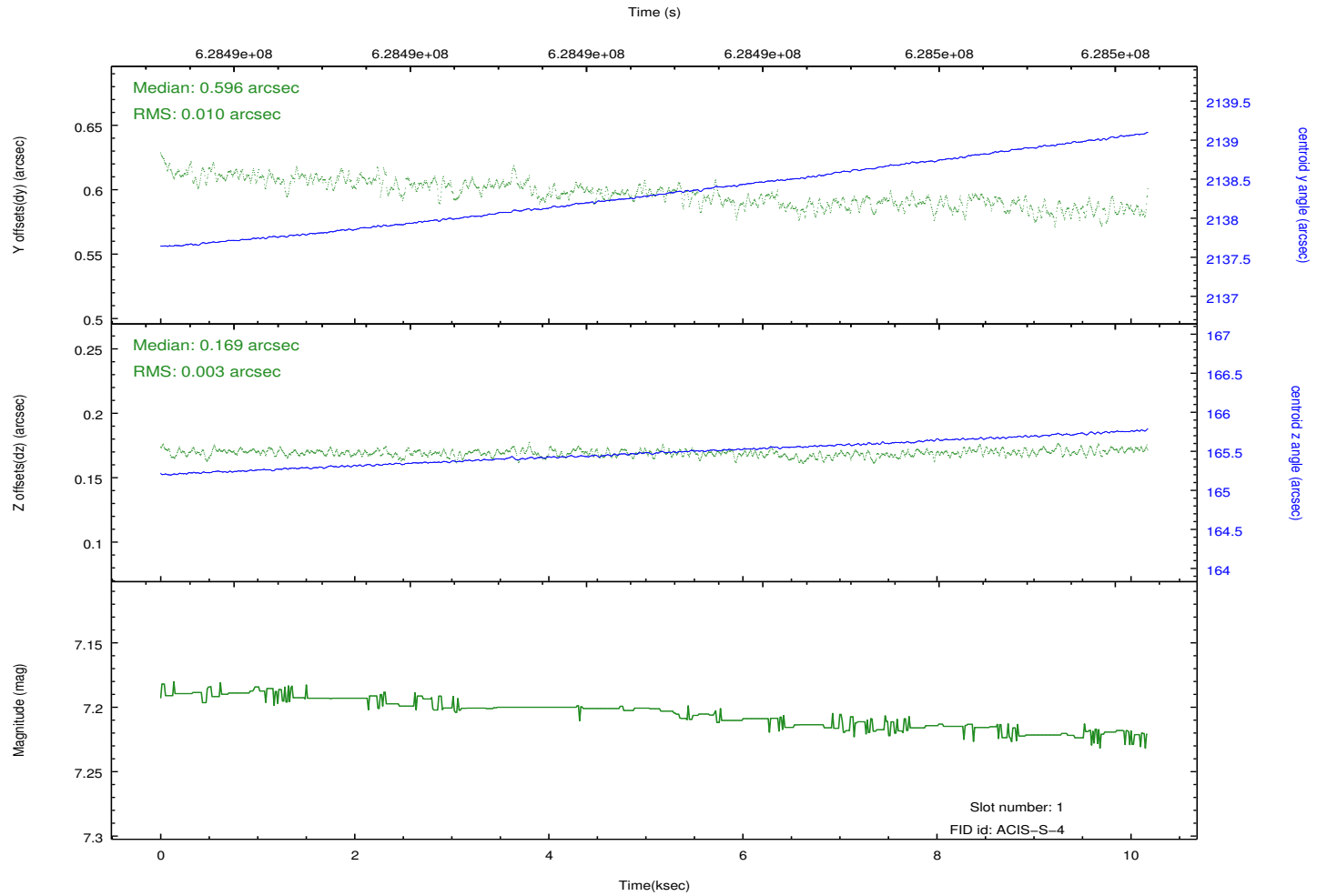
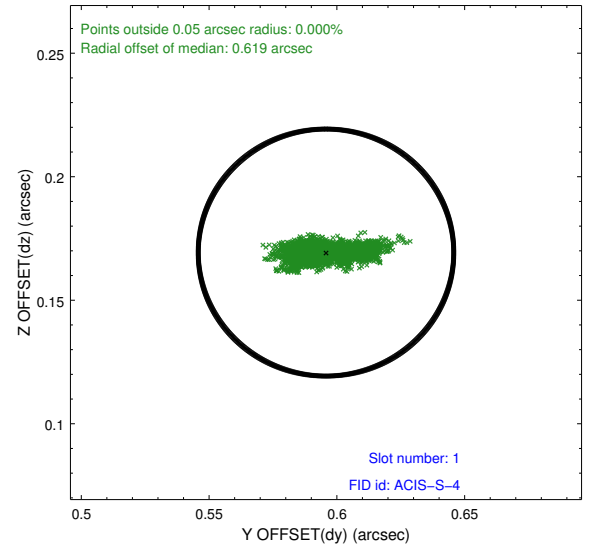
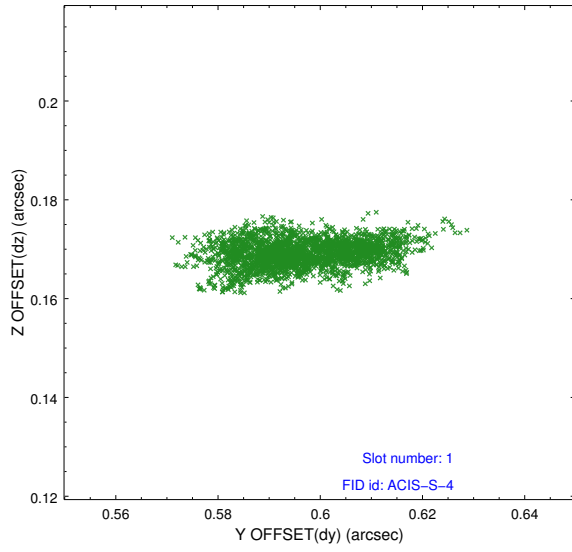


2.5 FID Slots

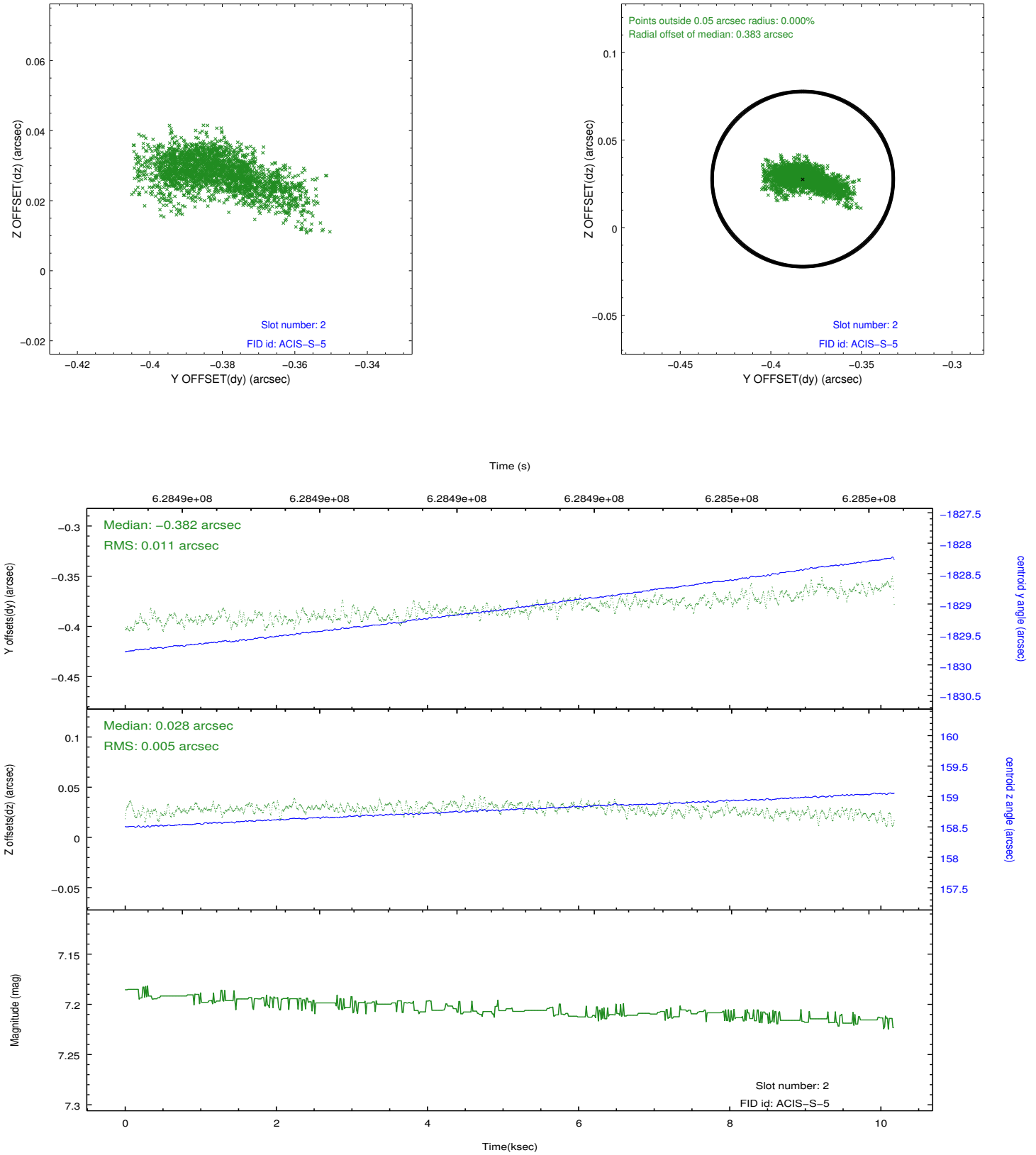
2.5.1 Slot 0



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)	2017.12.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.108479692459

A.2 Comments