

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 23168 - L2 Version 1
Chandra X-Ray Center

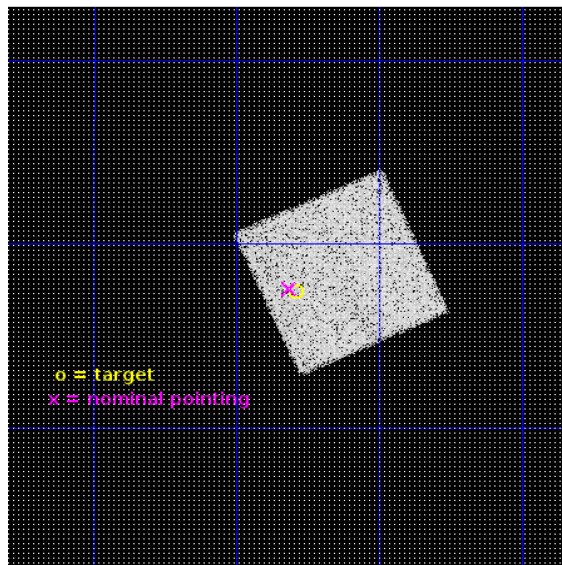
L2 Processing Date : Feb 21 2020

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

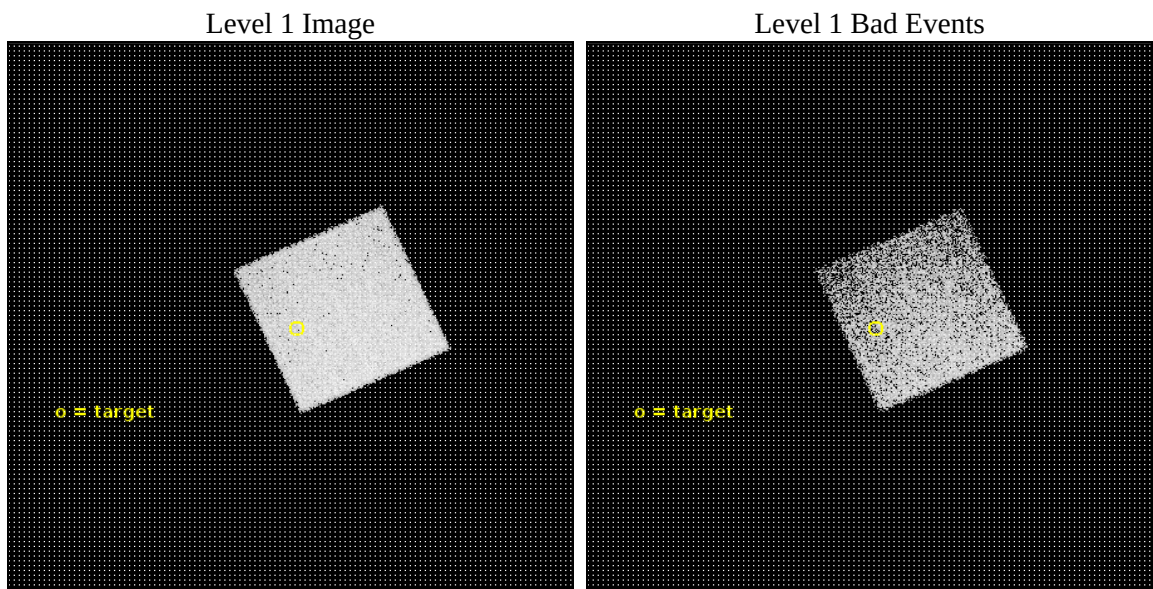
seq_num	704042	Sequence number
obs_id	23168	Observation id
title	Chandra-NuSTAR synergy in the NuSTAR serendipitous survey	Proposal
observer	Dr David Alexander	Principal investigator
object	PG_1001p054_s2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	151.072586	Observer's specified target RA [deg]
dec_targ	5.290197	Observer's specified target Dec [deg]
ra_nom	151.07867317335	Nominal RA [deg]
dec_nom	5.2928070810361	Nominal Dec [deg]
roll_nom	335.76798224814	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10090.928086162	Sum of GTIs [s]
livetime	9954.7471452151	Livetime [s]
ontime7	10090.928086162	Sum of GTIs [s]
l2events	41884	Number of level 2 events



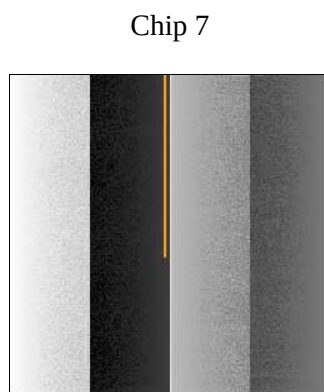
2 OBI

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	10.8.1	Processing system revision	ontime	10090.928086162	Sum of GTIs [s]
caldbver	4.8.4.2	 	ontime7	10090.928086162	Sum of GTIs [s]
date	2020-02-21T18:56:29	Date and time of file creation	l1events	98685	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

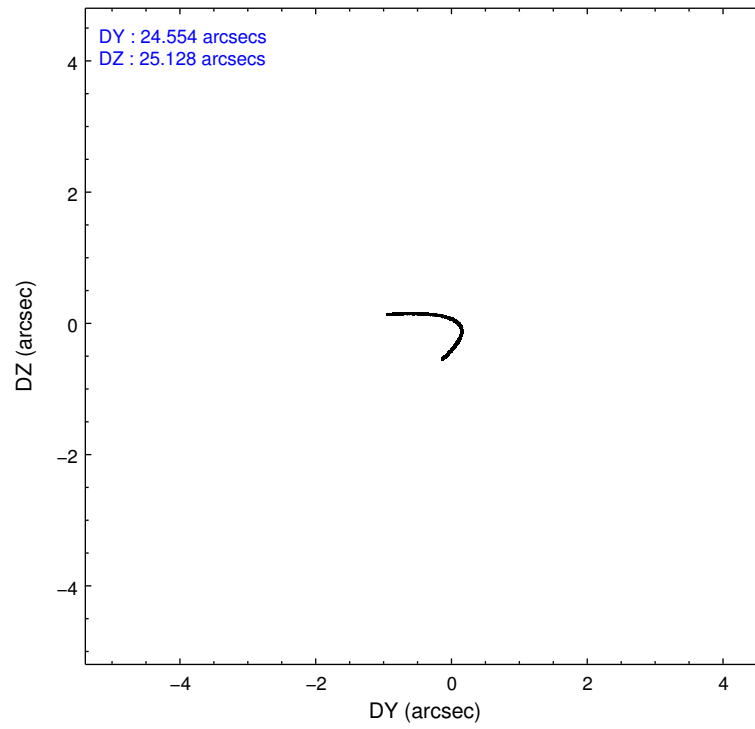
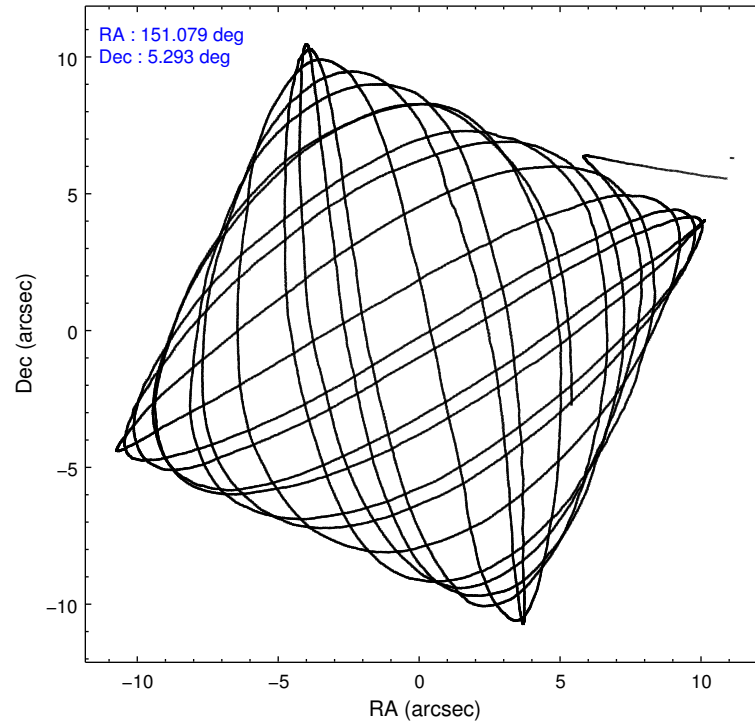
	ccd 7
level 1 events	98685
rejected events	55711
rejected %	56%

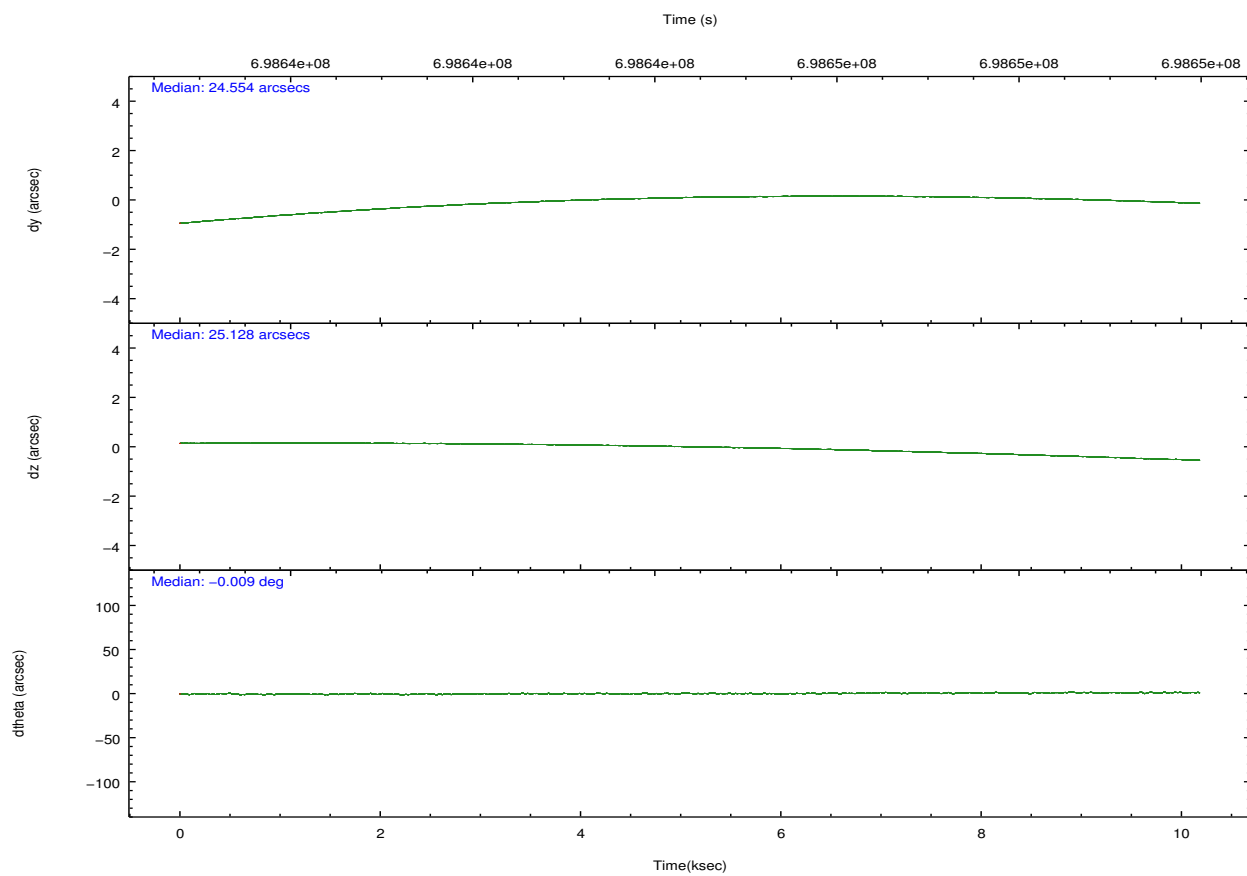
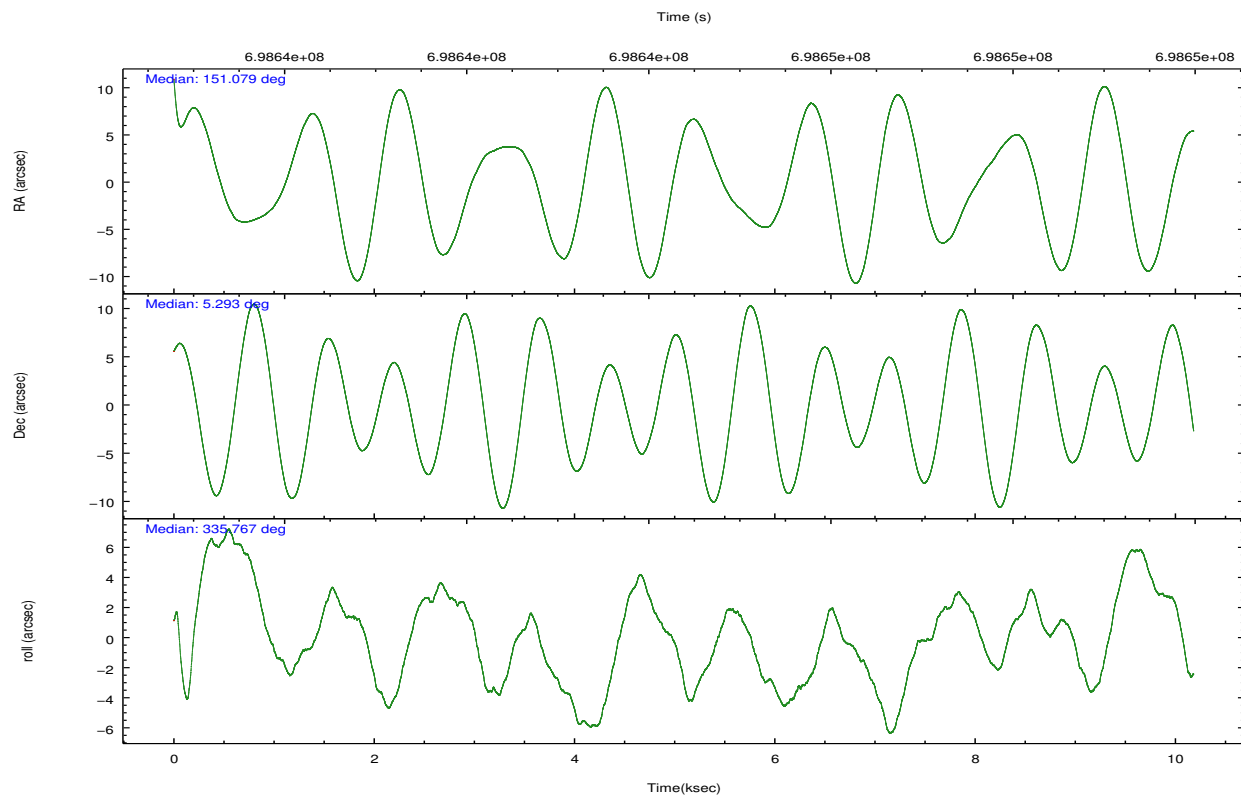
	ccd 7
grade 0 events	3481
	3%
grade 1 events	152
	0%
grade 2 events	9450
	9%
grade 3 events	3343
	3%
grade 4 events	3273
	3%
grade 5 events	9689
	9%
grade 6 events	23444
	23%
grade 7 events	45853
	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
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	151.051248	151.0786731733503	Subarray requested	NONE	NONE
[deg] Pointing Dec	5.289645	5.292807081036114	Alternating exposures requested	N	N
[deg] Pointing Roll	335.613864	335.7679822481392	[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)	698639450.184000	698638279.14764			
Observation start date	2020-02-21T02:29:41	2020-02-21T02:11:19			
[s] Observation end time (MET)	698649450.184000	698650706.24839			
Observation end date	2020-02-21T05:16:21	2020-02-21T05:38:26			
Read mode	TIMED	TIMED			

2.3 Aspect



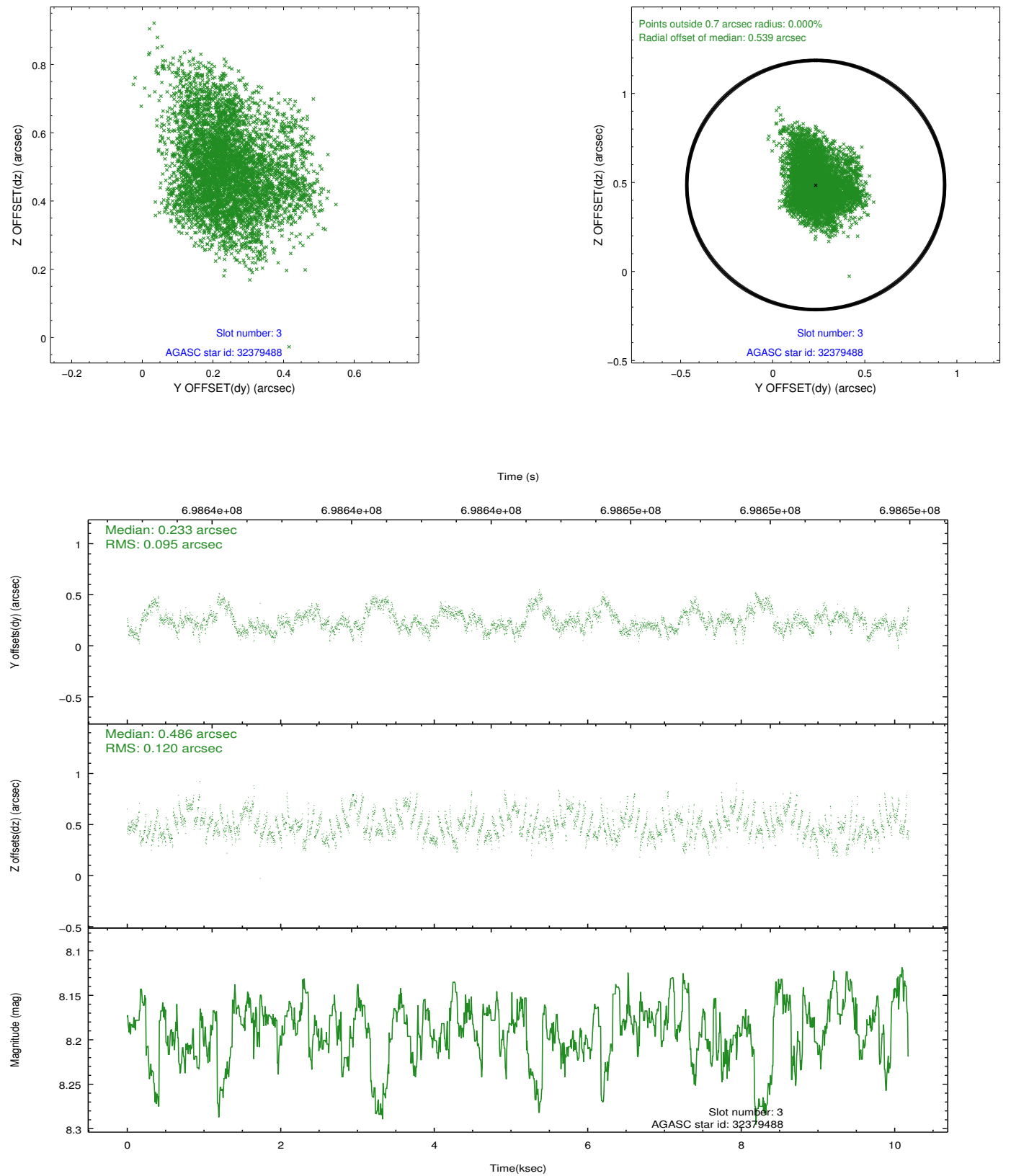


Slot Statistics

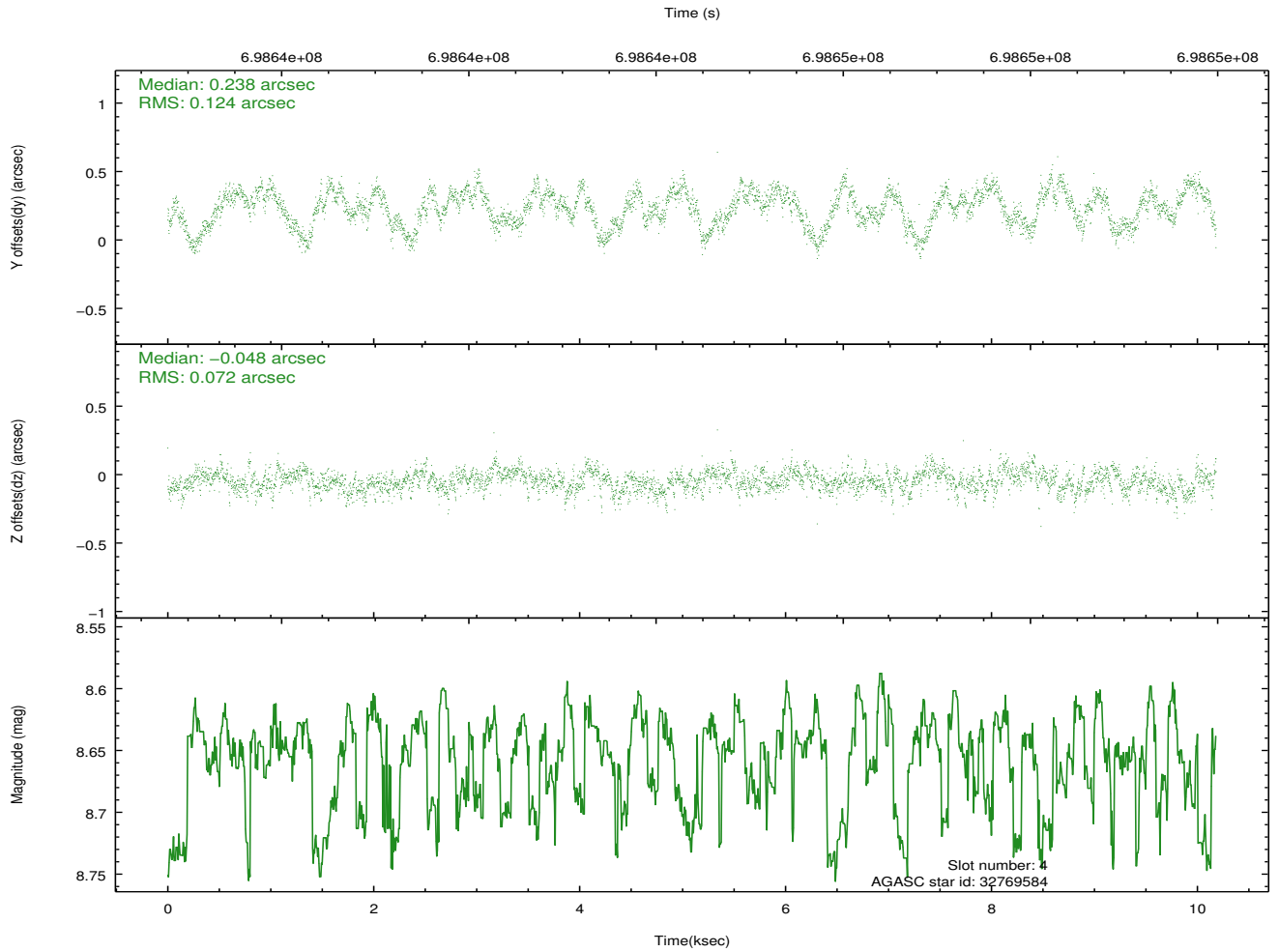
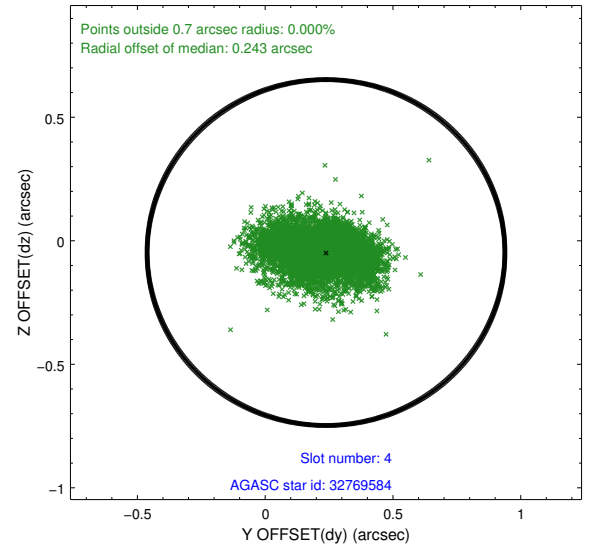
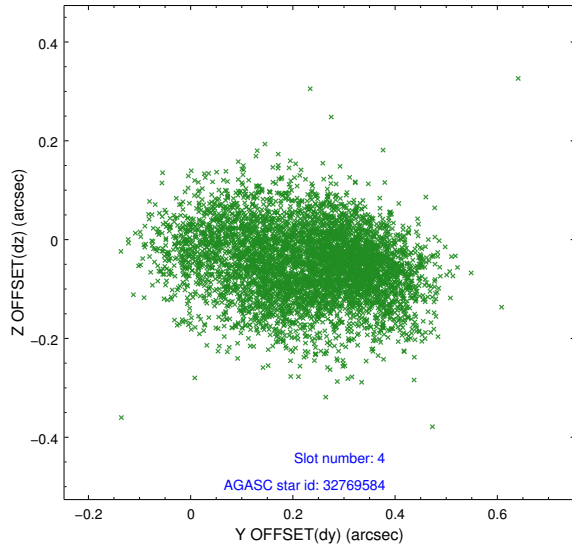
id	status	used	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		7.02	2484	1.000	-0.464	-0.152	0.011	0.044	0.000000	0.000000	-777.98	-1746
1	FID		7.13	2484	1.000	0.921	0.264	0.010	0.057	0.000000	0.000000	2136.28	161
2	FID		7.15	2484	1.000	-0.489	-0.103	0.010	0.021	0.000000	0.000000	-1830.35	155
3	GUIDE	used	8.19	4967	1.000	0.233	0.486	0.165	0.262	150.815825	4.663644	163.61	-2401
4	GUIDE	used	8.65	4959	1.000	0.238	-0.048	0.151	0.251	151.091599	5.411792	-49.26	459
5	GUIDE	used	8.87	4962	1.000	-0.082	0.192	0.199	0.291	150.765578	5.678870	-1510.50	853
6	GUIDE	used	7.47	4968	1.000	0.033	0.038	0.111	0.192	151.198054	5.004024	903.65	-719
7	GUIDE	used	8.79	4962	1.000	-0.424	-0.666	0.164	0.256	151.652532	5.523249	1615.84	1655

2.4 Star Slots

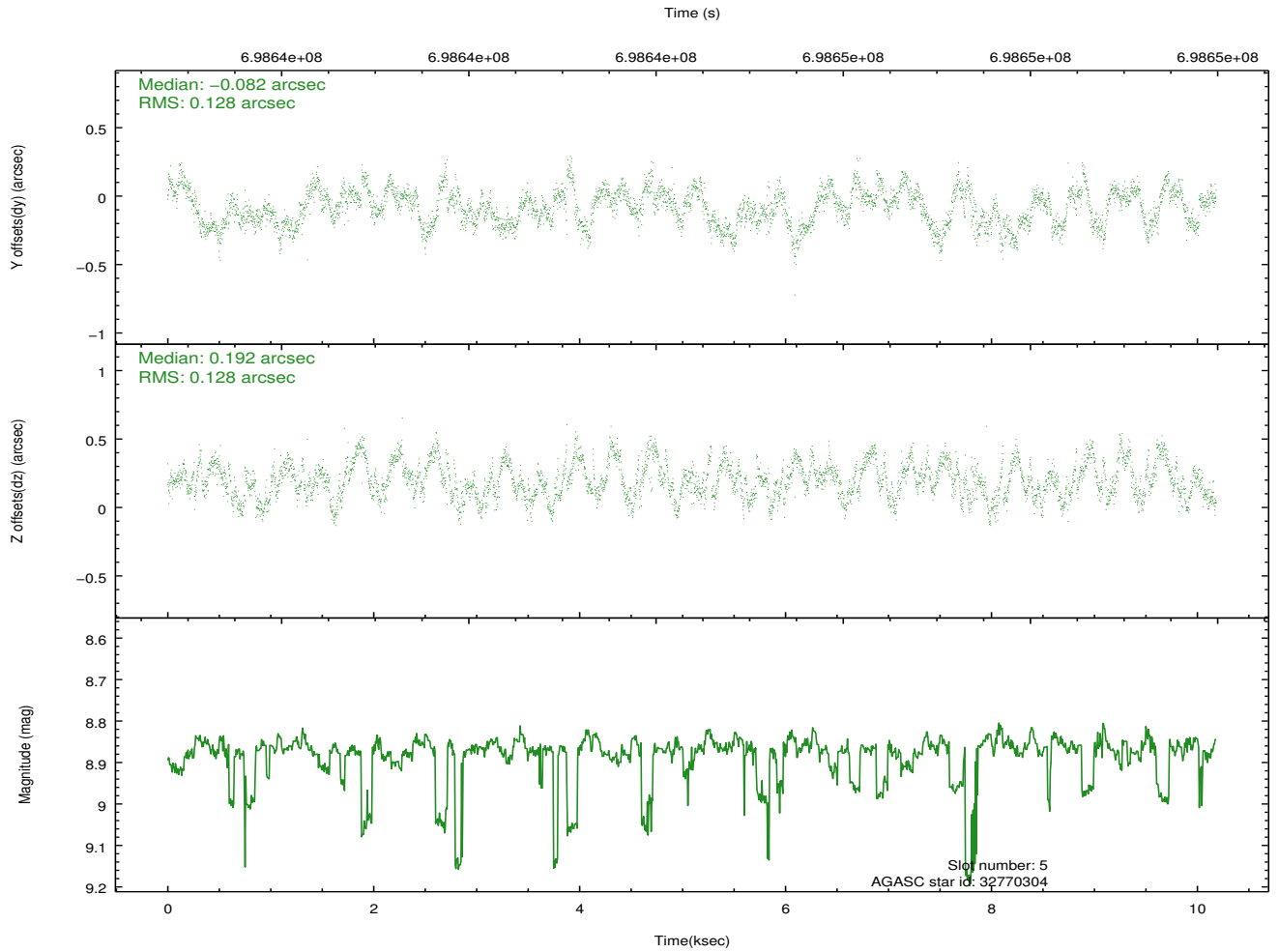
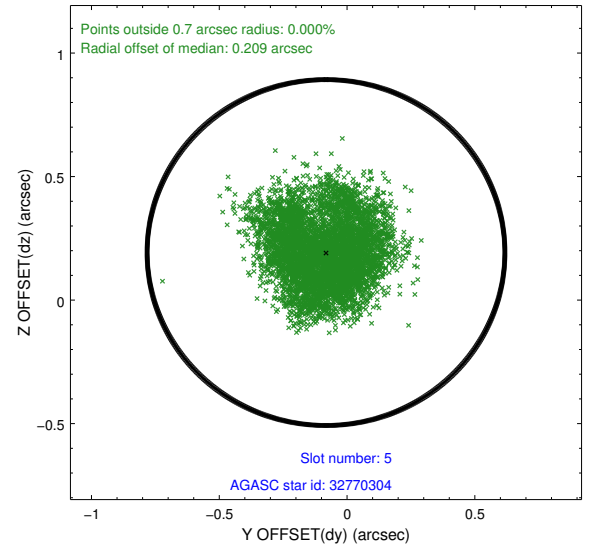
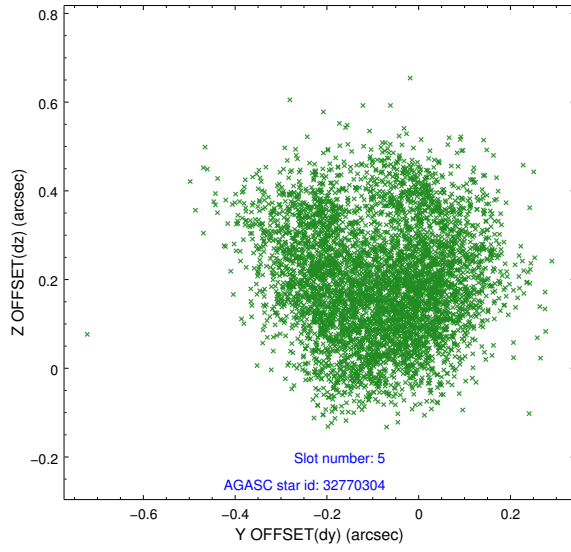
2.4.1 Slot 3



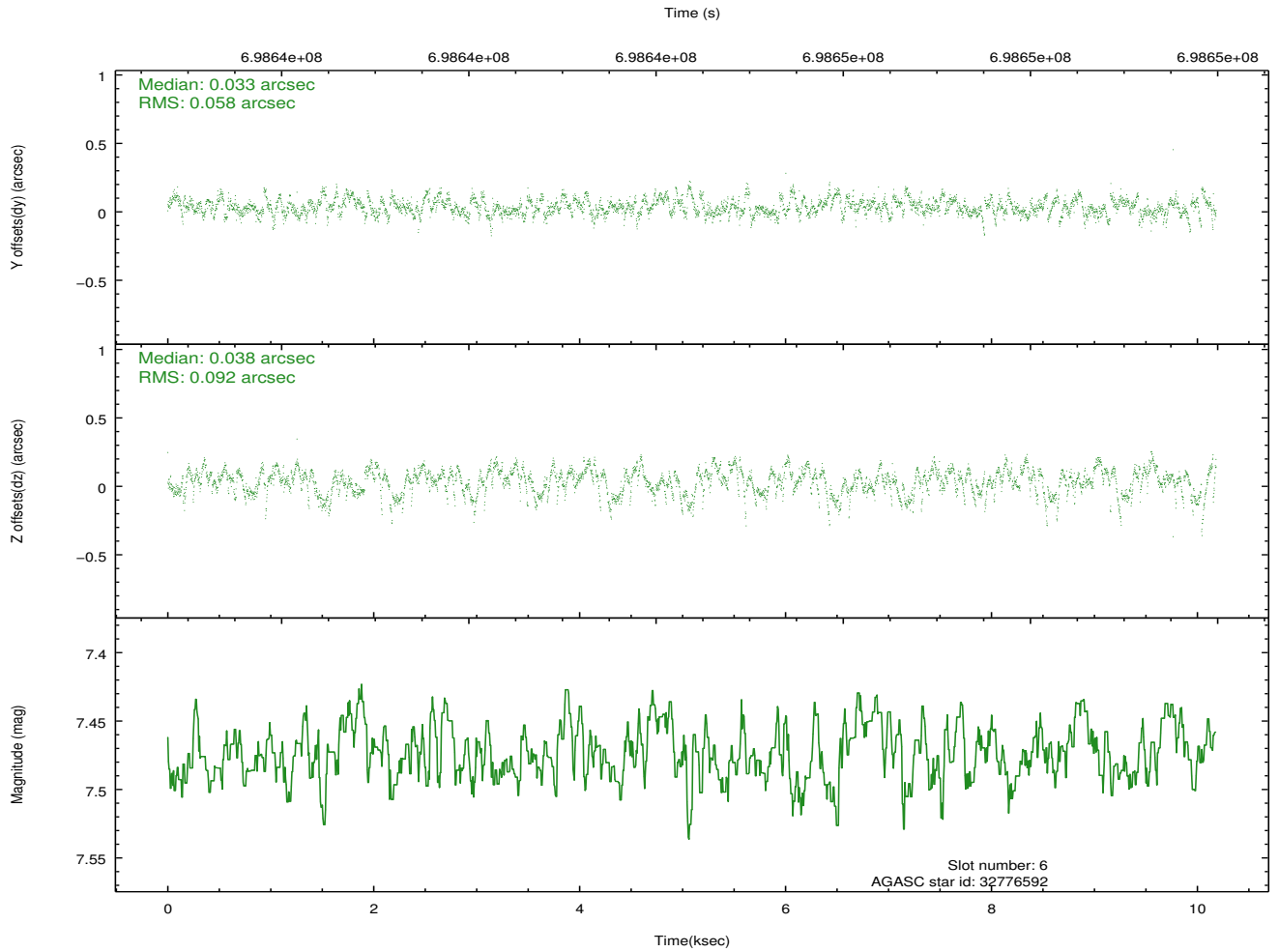
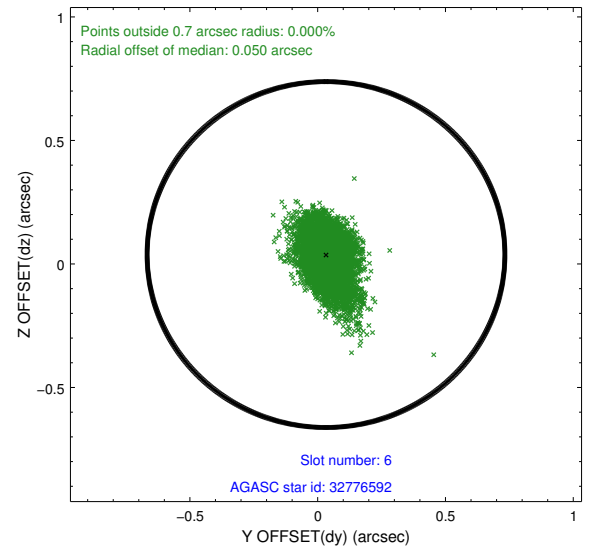
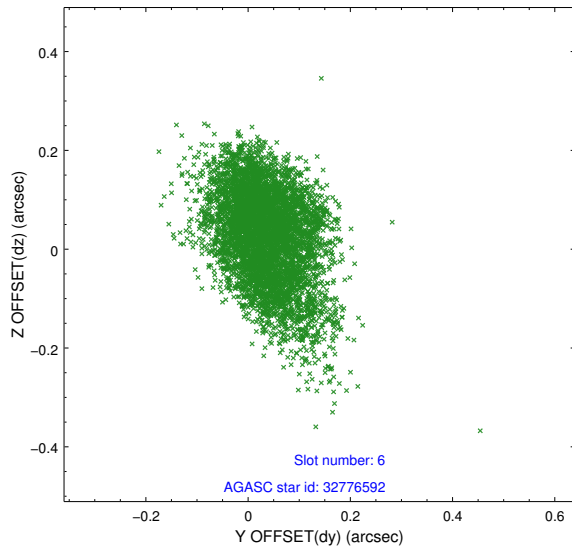
2.4.2 Slot 4



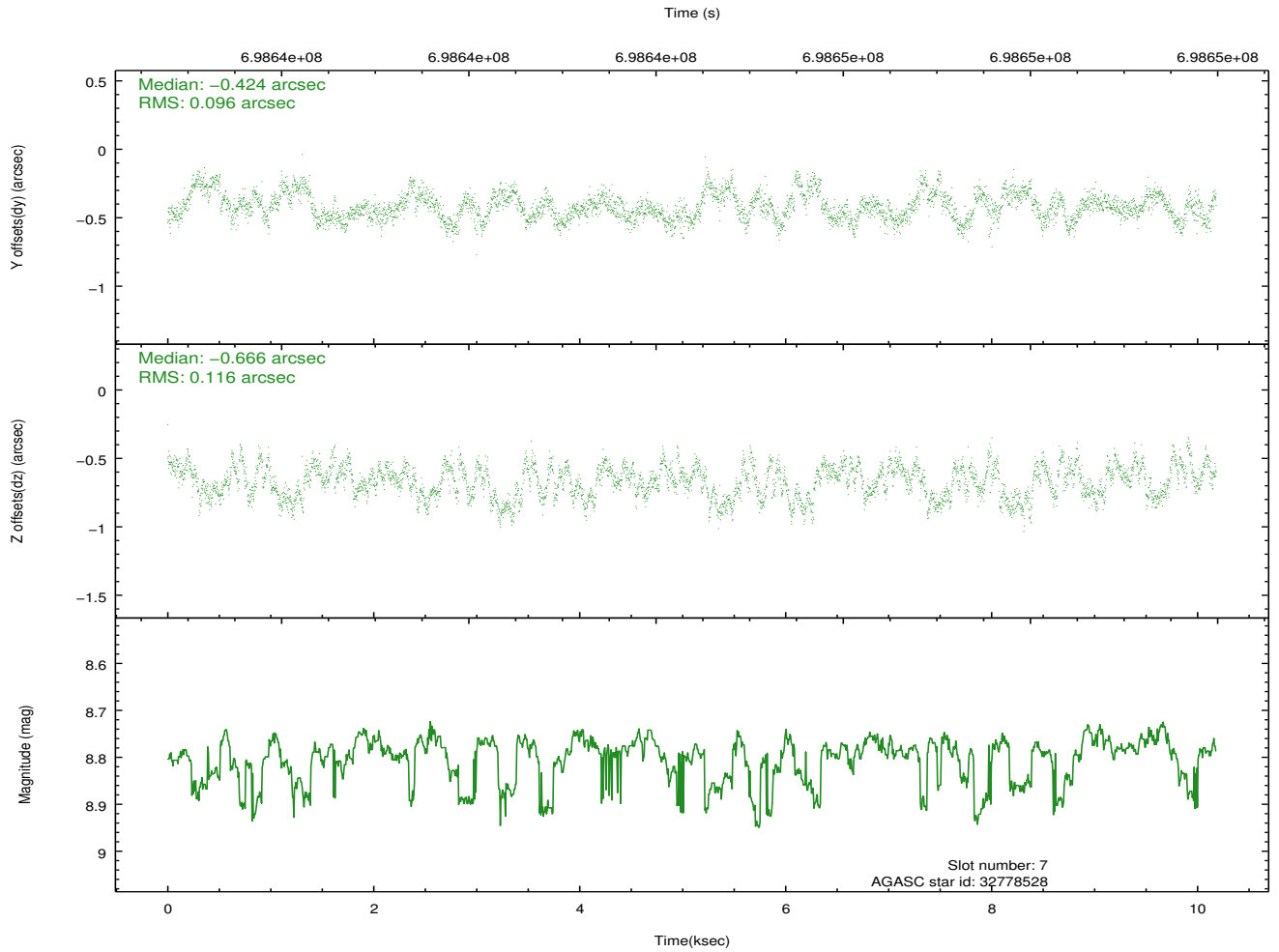
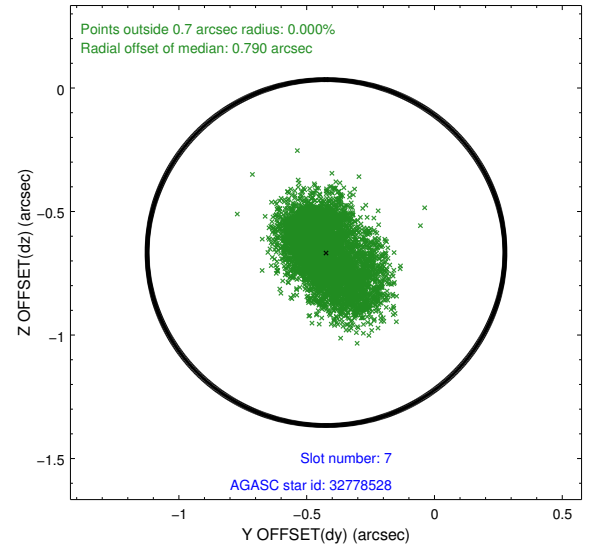
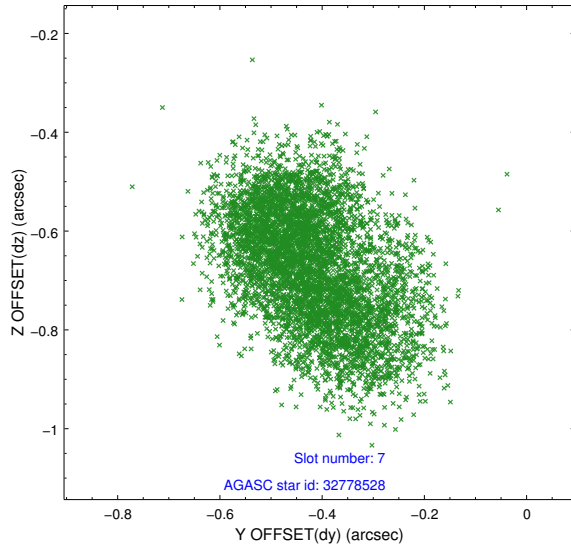
2.4.3 Slot 5



2.4.4 Slot 6

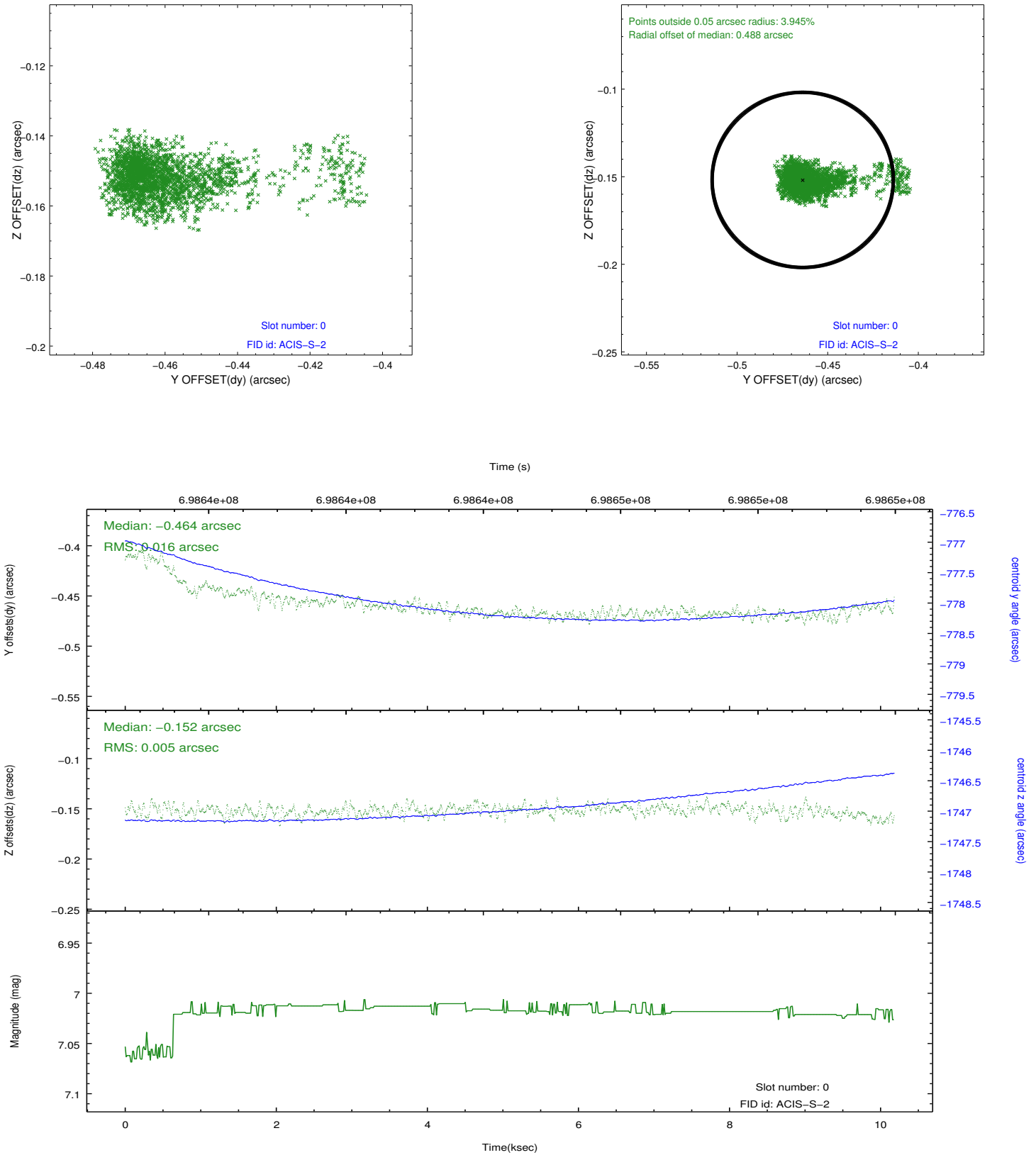


2.4.5 Slot 7

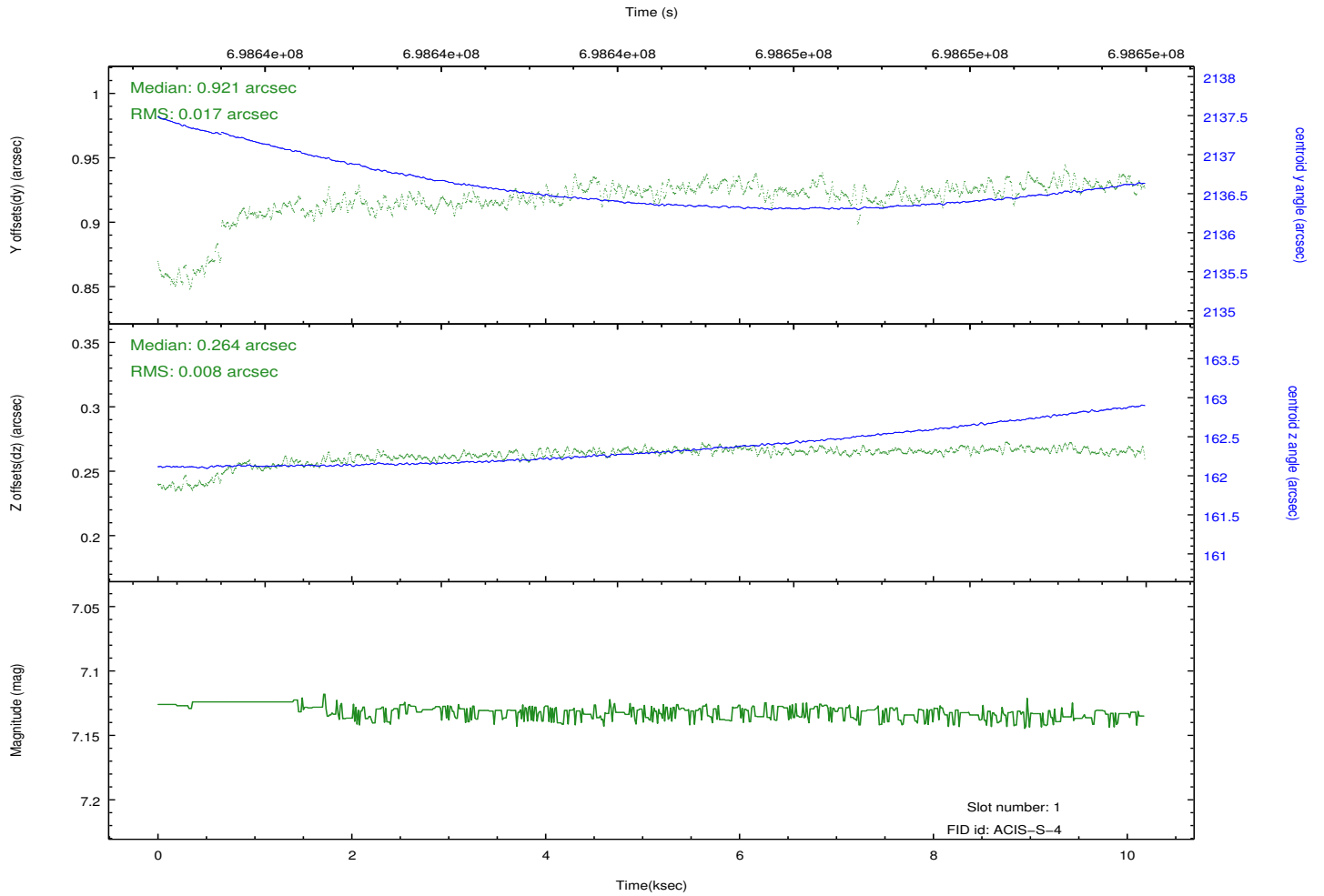
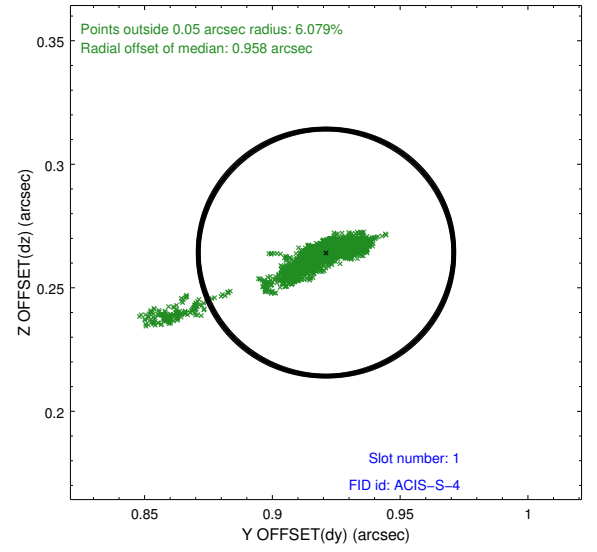
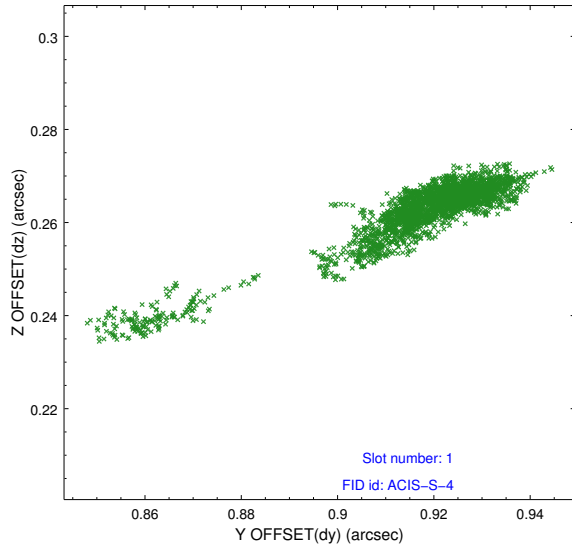


2.5 FID Slots

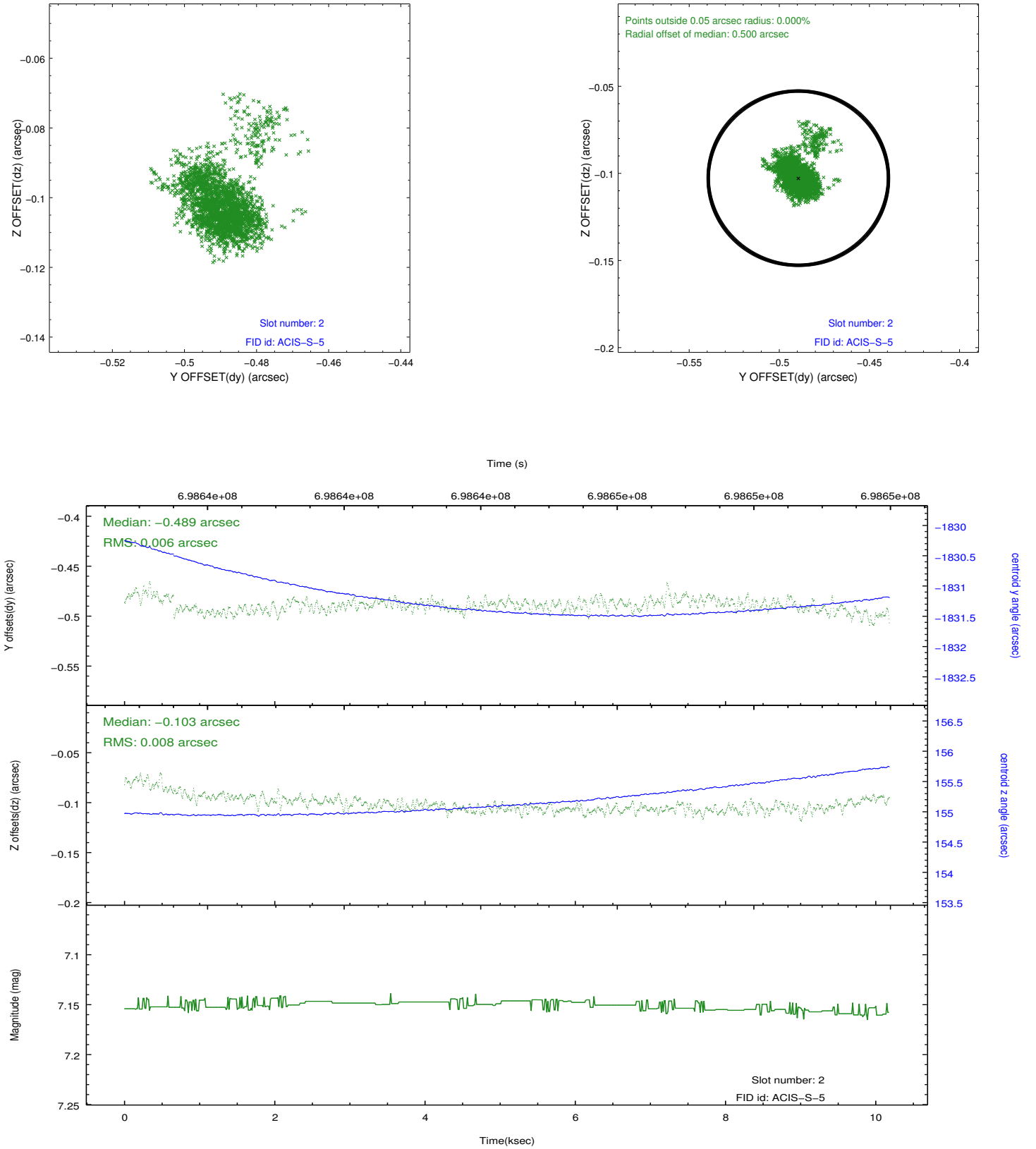
2.5.1 Slot 0



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)	2020.02.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.090928086162

A.2 Comments