

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22117 - L2 Version 1
Chandra X-Ray Center

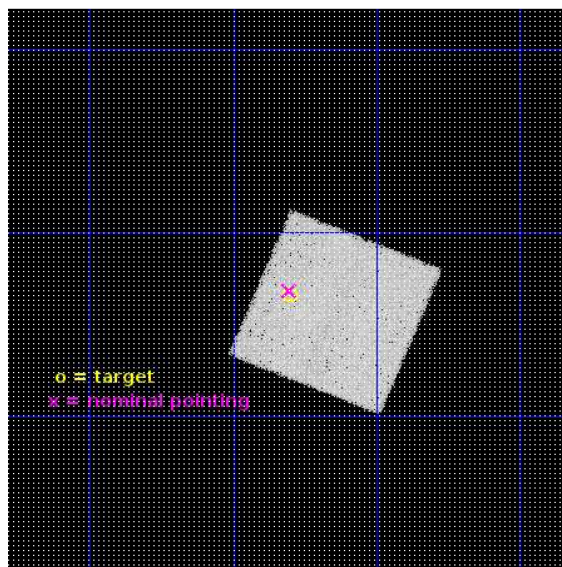
L2 Processing Date : Feb 18 2019

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

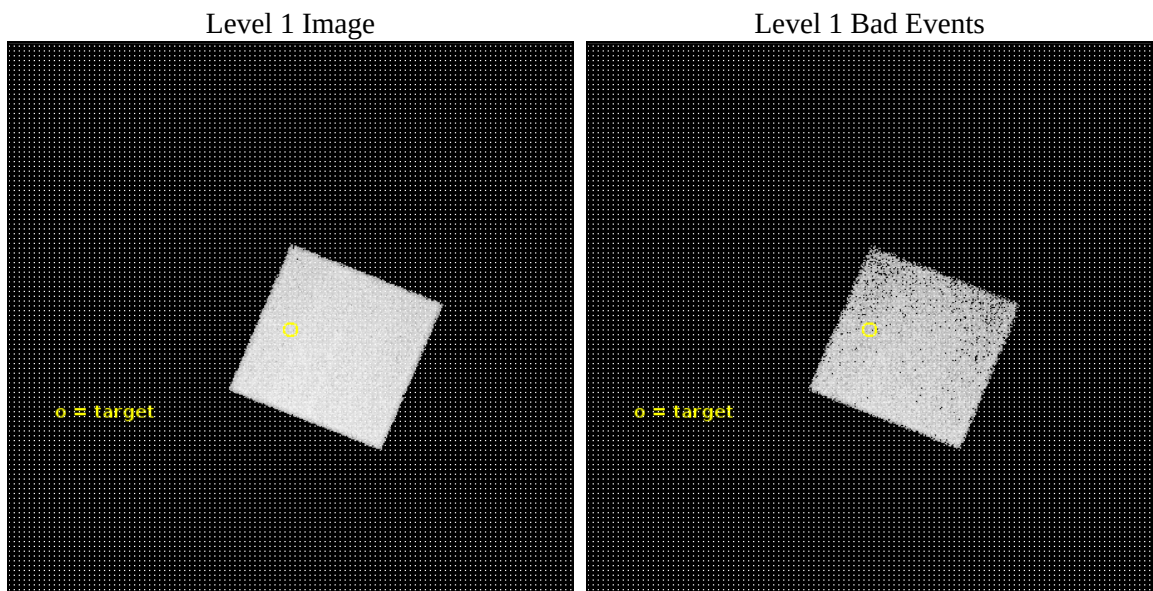
seq_num	703867	Sequence number
obs_id	22117	Observation id
title	Chandra-NuSTAR synergy in the NuSTAR serendipitous survey	Proposal
observer	Dr David Alexander	Principal investigator
object	PSRJ1023p0038_s2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	155.825439	Observer's specified target RA [deg]
dec_targ	0.60964	Observer's specified target Dec [deg]
ra_nom	155.82594720607	Nominal RA [deg]
dec_nom	0.61374079127919	Nominal Dec [deg]
roll_nom	22.238593786198	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20089.674382687	Sum of GTIs [s]
livetime	19818.556529365	Livetime [s]
ontime7	20089.674382687	Sum of GTIs [s]
l2events	81736	Number of level 2 events



2 OBI

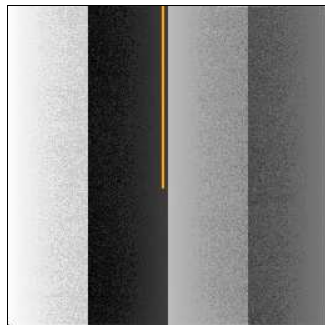
2.1 OBI

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	10.7.1	Processing system revision	ontime	20089.674382687	Sum of GTIs [s]
caldsver	4.8.2	 	ontime7	20089.674382687	Sum of GTIs [s]
date	2019-02-18T16:17:21	Date and time of file creation	l1events	193971	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

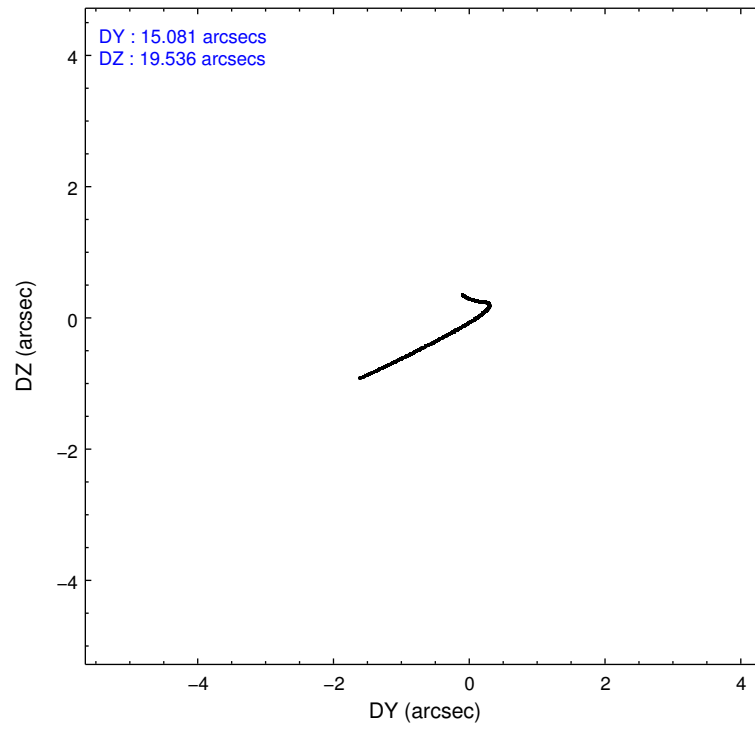
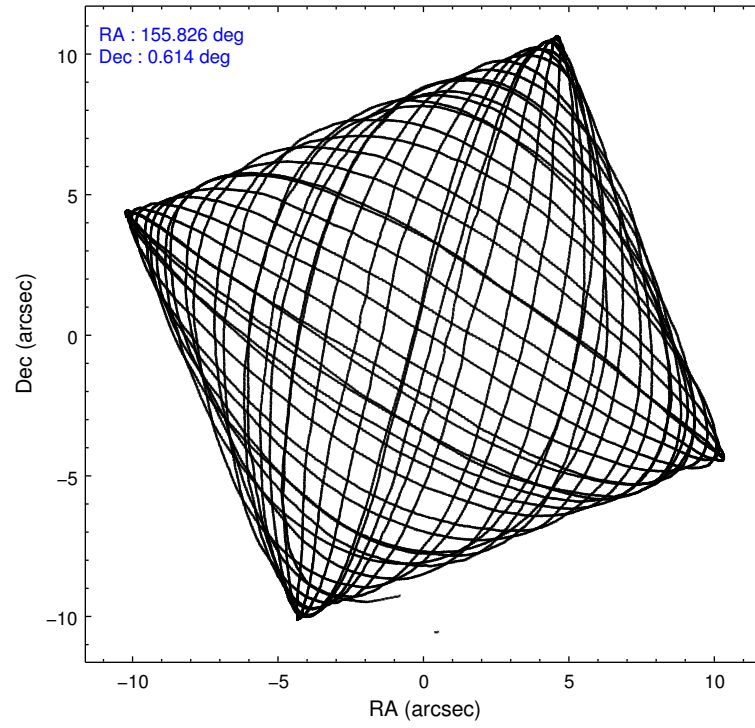
	ccd 7
level 1 events	193971
rejected events	109934
rejected %	56%

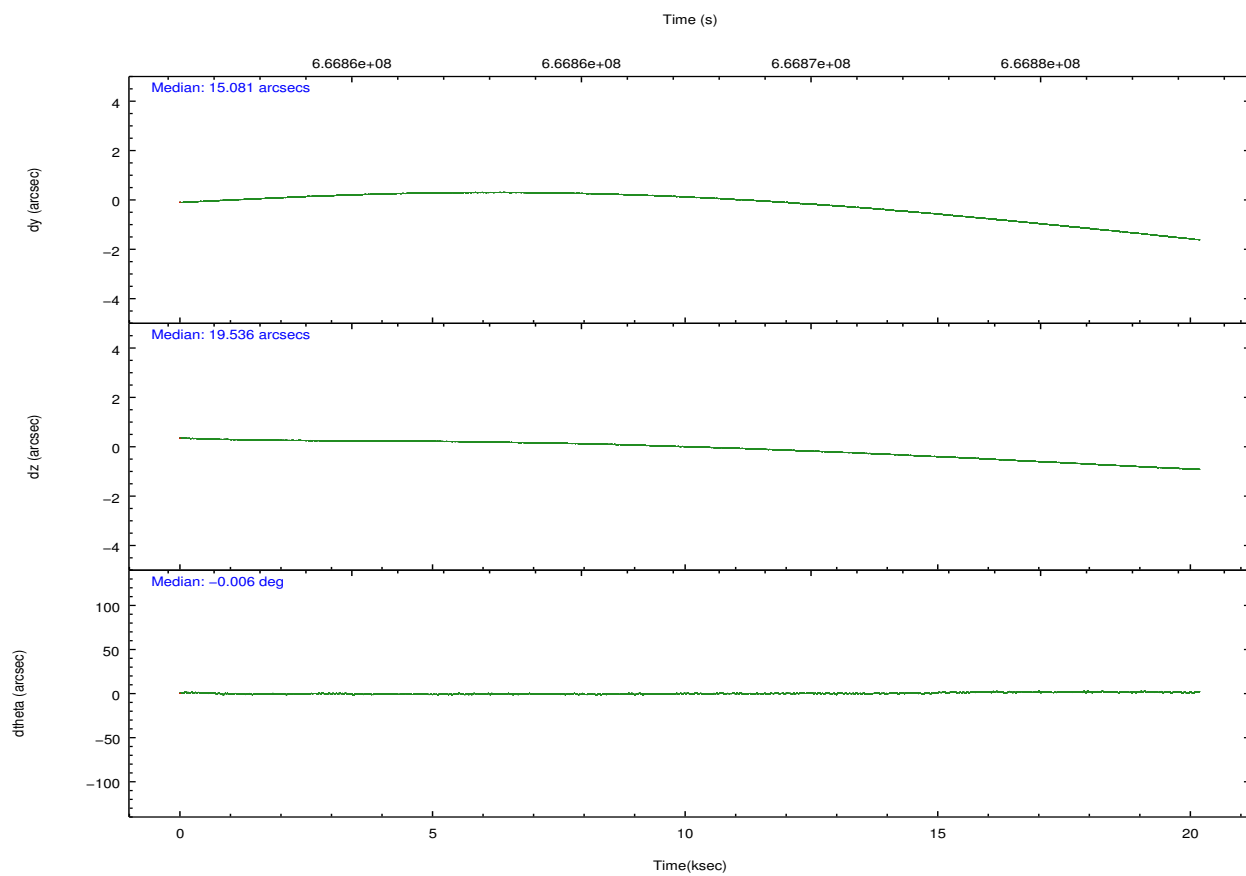
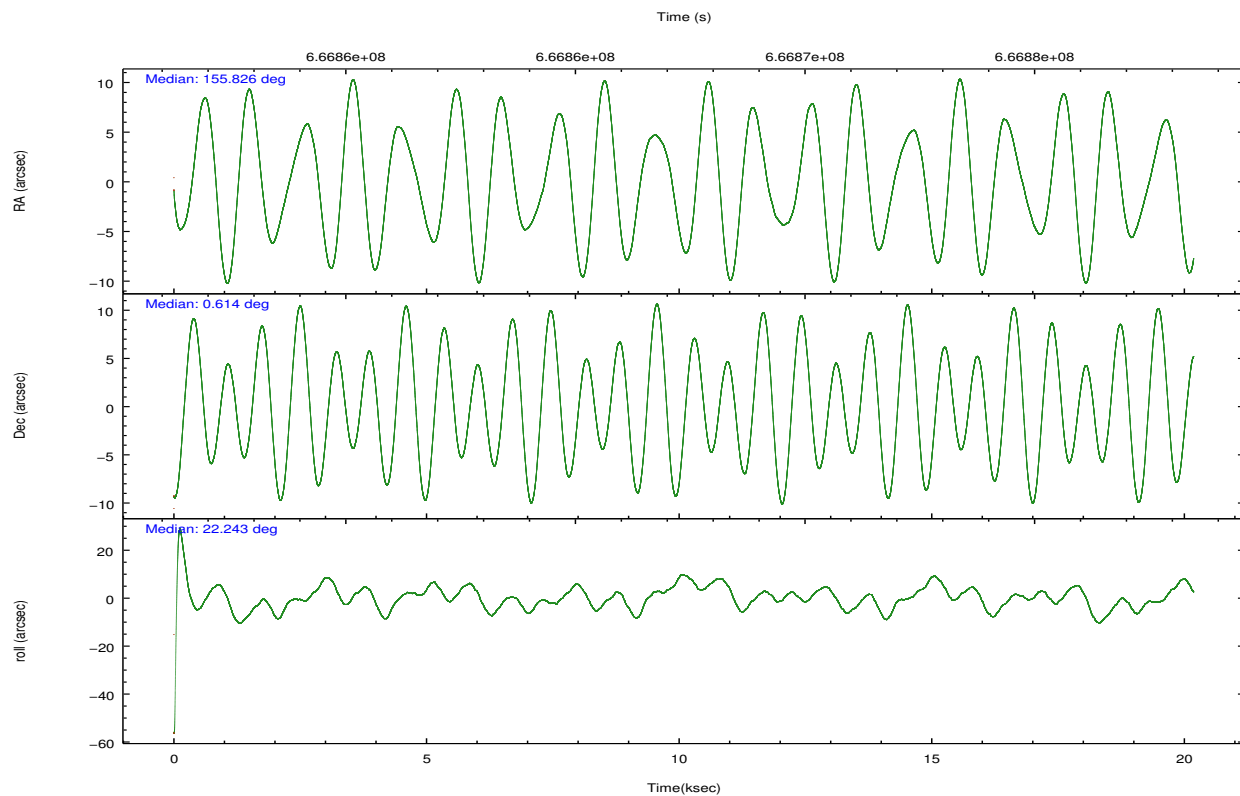
	ccd 7
grade 0 events	6768
	3%
grade 1 events	295
	0%
grade 2 events	17420
	8%
grade 3 events	6531
	3%
grade 4 events	6516
	3%
grade 5 events	18838
	9%
grade 6 events	46829
	24%
grade 7 events	90774
	46%

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	155.809451	155.8259472060699	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.591824	0.6137407912791866	Alternating exposures requested	N	N
[deg] Pointing Roll	22.082194	22.23859378619811	[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)	666857440.184000	666856359.5111001			
Observation start date	2019-02-18T06:09:31	2019-02-18T05:52:39			
[s] Observation end time (MET)	666877440.184000	666878390.34991			
Observation end date	2019-02-18T11:42:51	2019-02-18T11:59:50			
Read mode	TIMED	TIMED			

2.3 Aspect



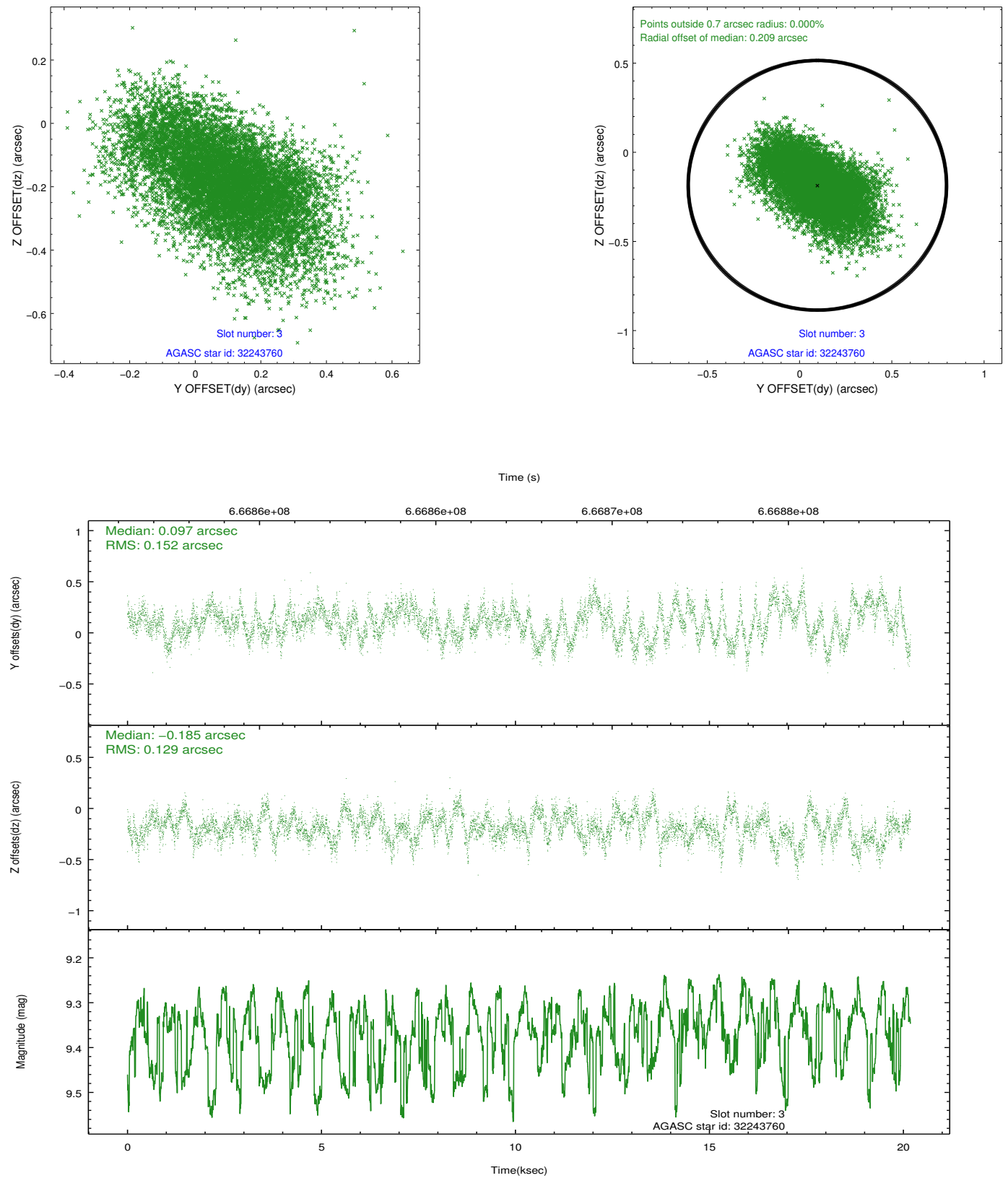


Slot Statistics

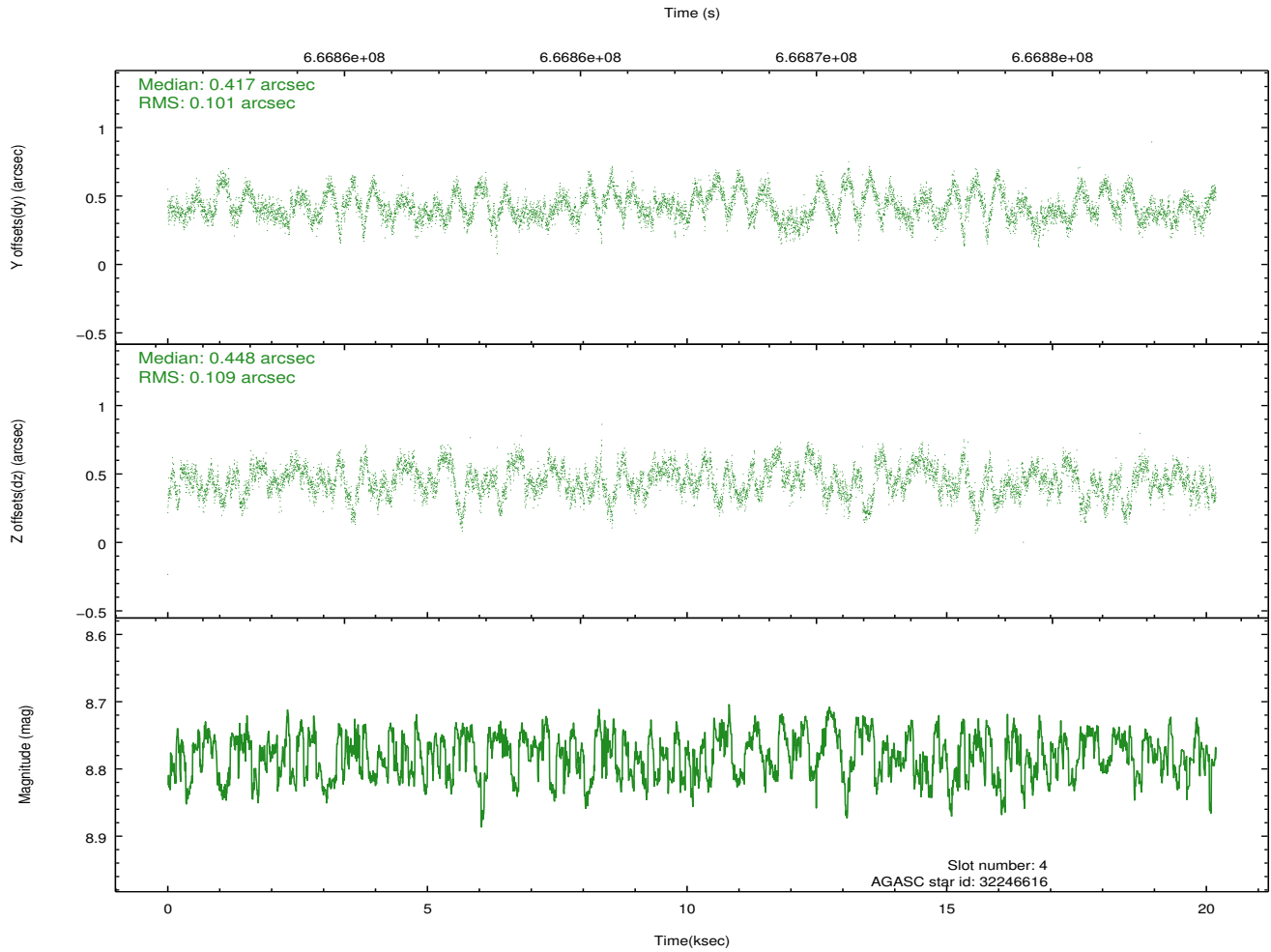
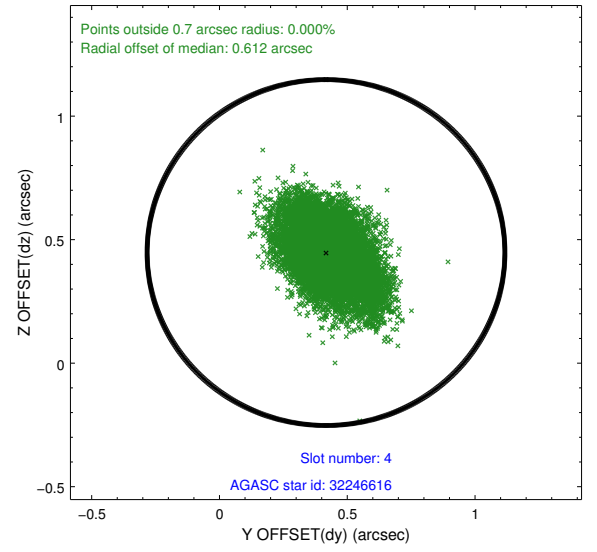
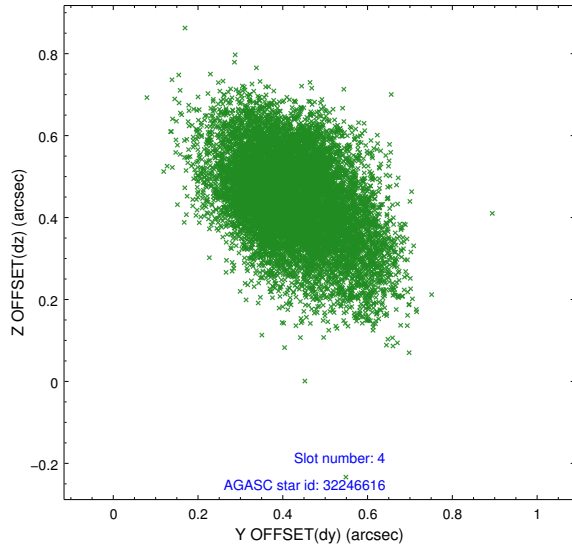
id	status	used	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		7.12	4924	1.000	-0.358	-0.209	0.025	0.072	0.000000	0.000000	-768.09	-1741
1	FID		7.23	4923	1.000	0.811	0.227	0.014	0.031	0.000000	0.000000	2146.18	167
2	FID		7.20	4924	1.000	-0.491	-0.011	0.028	0.066	0.000000	0.000000	-1820.92	161
3	GUIDE	used	9.36	9834	1.000	0.097	-0.185	0.211	0.353	156.305610	1.000776	2207.47	691
4	GUIDE	used	8.78	9838	1.000	0.417	0.448	0.155	0.262	155.618379	0.558690	-682.32	147
5	GUIDE	used	8.16	9843	1.000	-0.261	-0.063	0.106	0.185	156.238637	1.331163	2430.96	1884
6	GUIDE	used	8.57	9839	1.000	-0.294	-0.049	0.122	0.194	155.687548	1.151482	349.75	2030
7	GUIDE	used	8.73	9835	1.000	0.027	-0.135	0.143	0.228	155.523543	1.161169	-183.59	2285

2.4 Star Slots

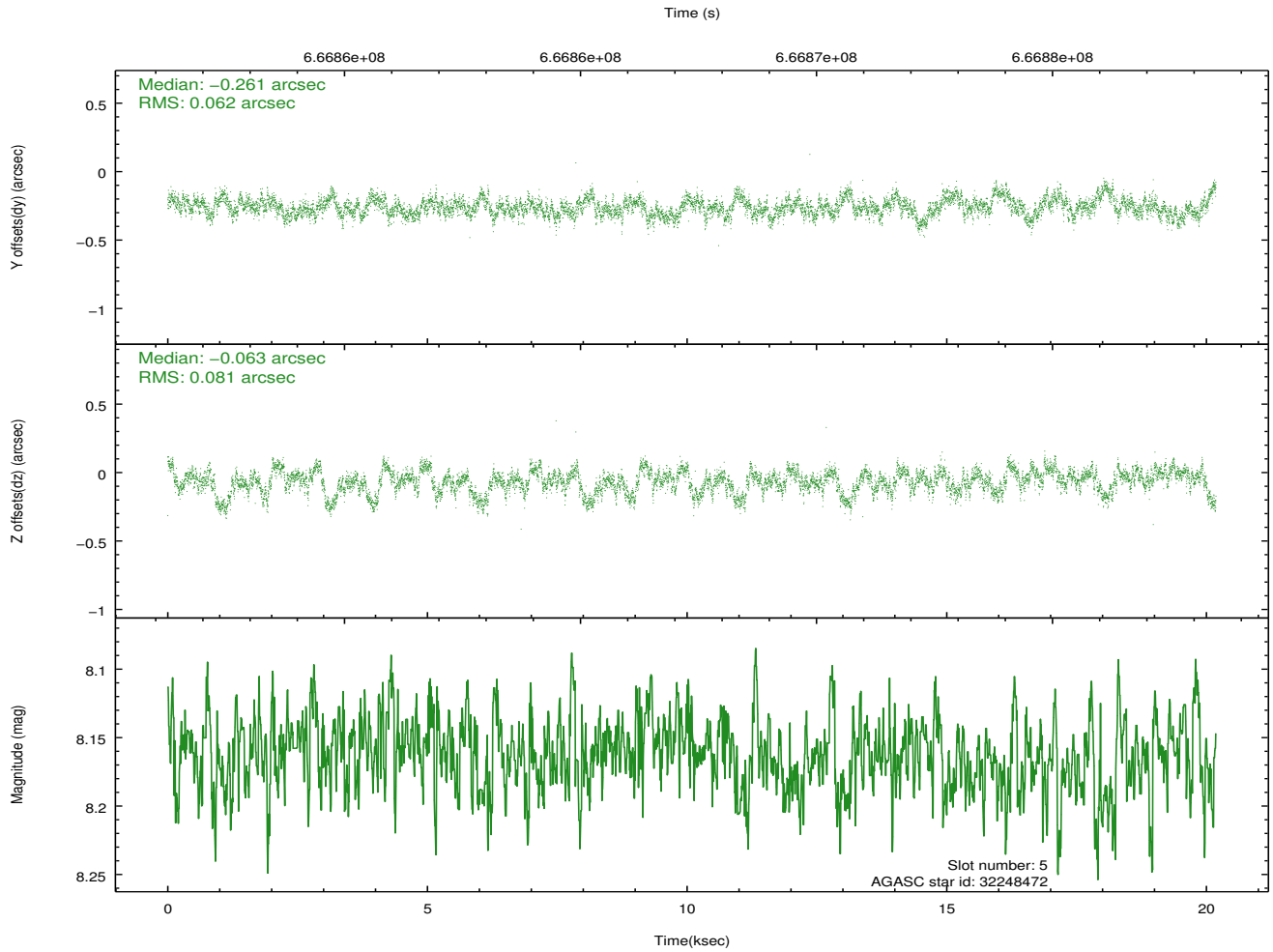
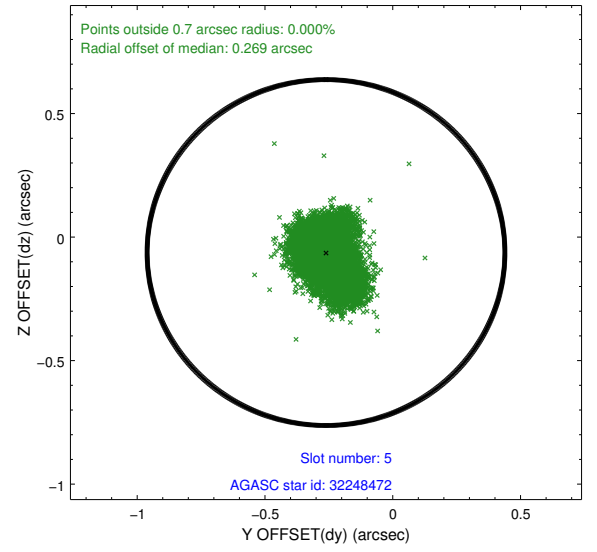
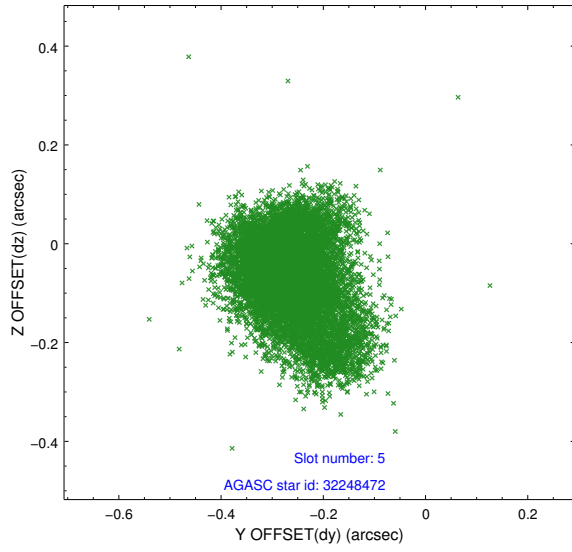
2.4.1 Slot 3



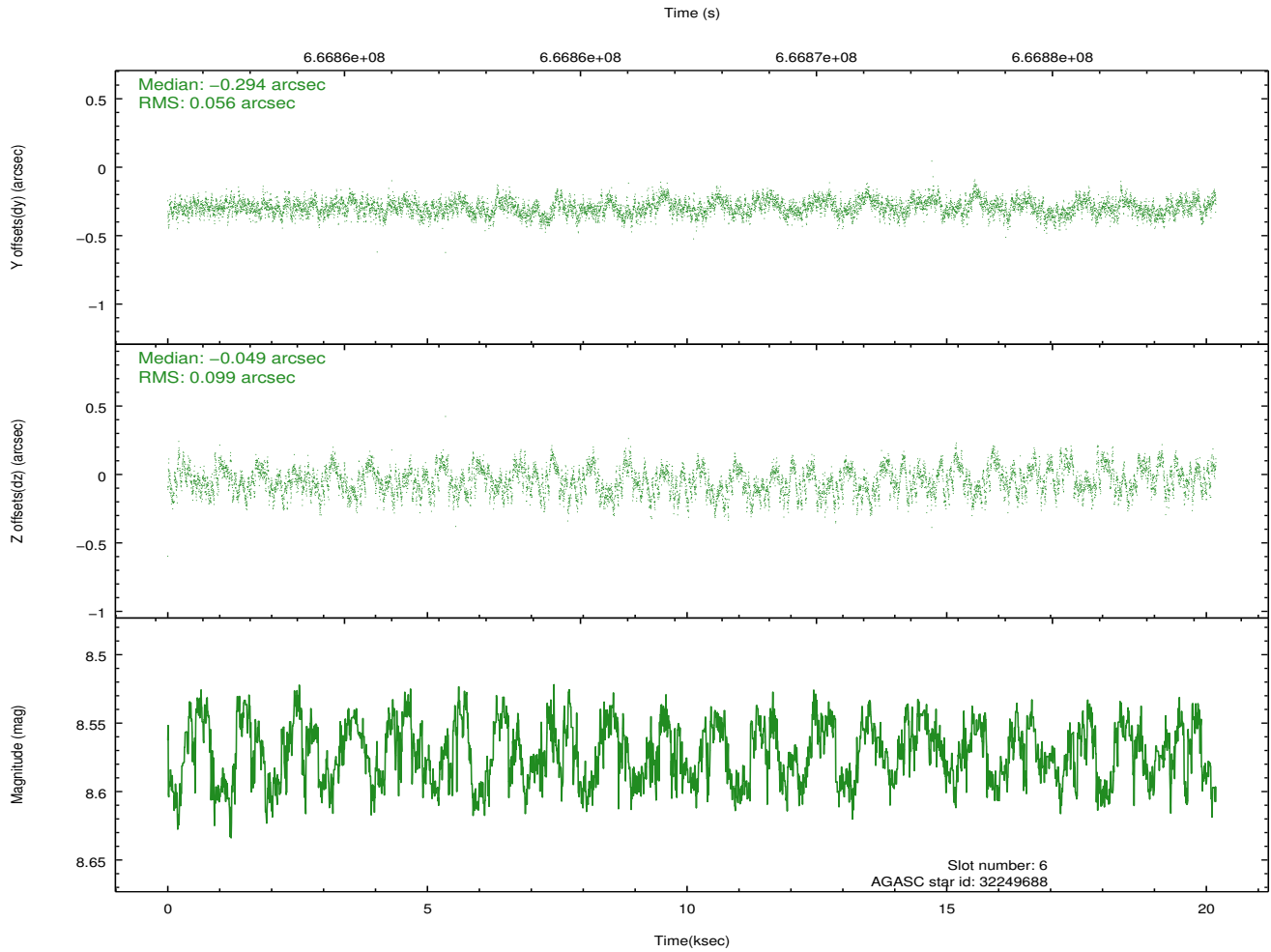
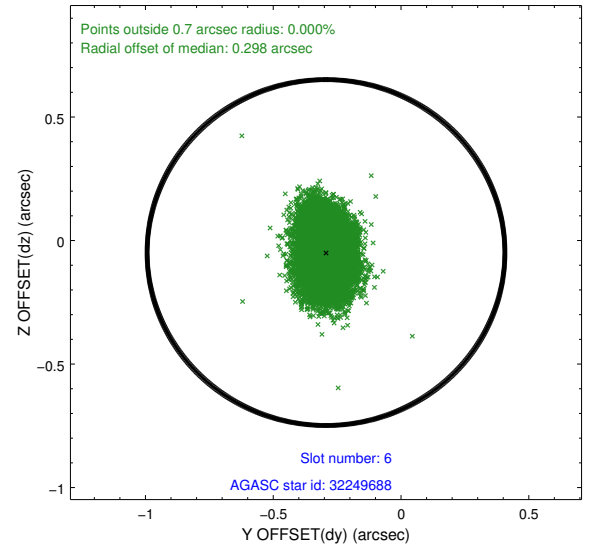
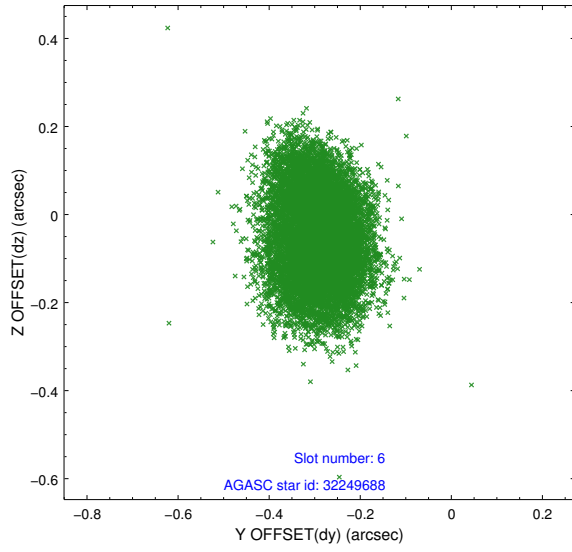
2.4.2 Slot 4



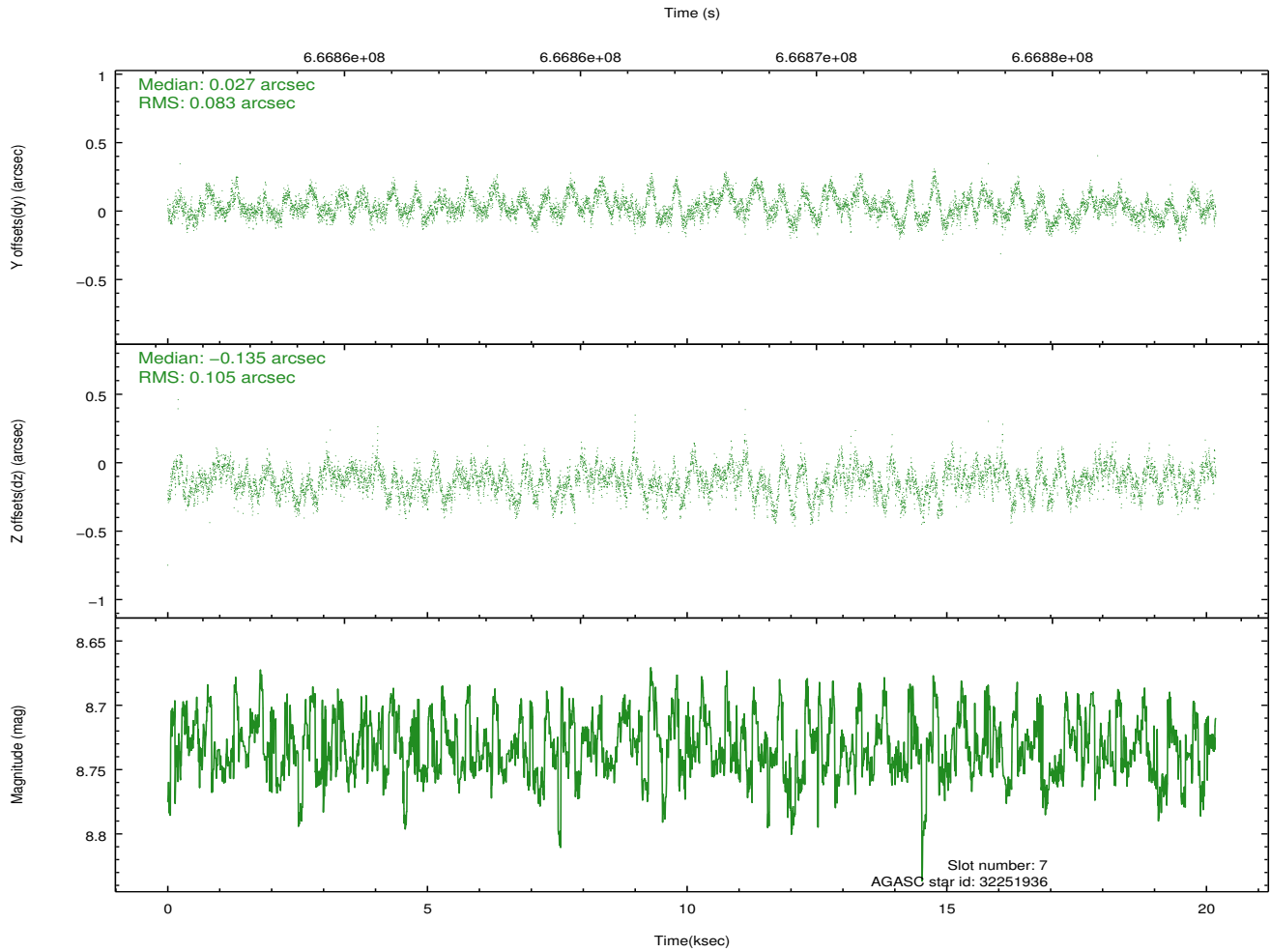
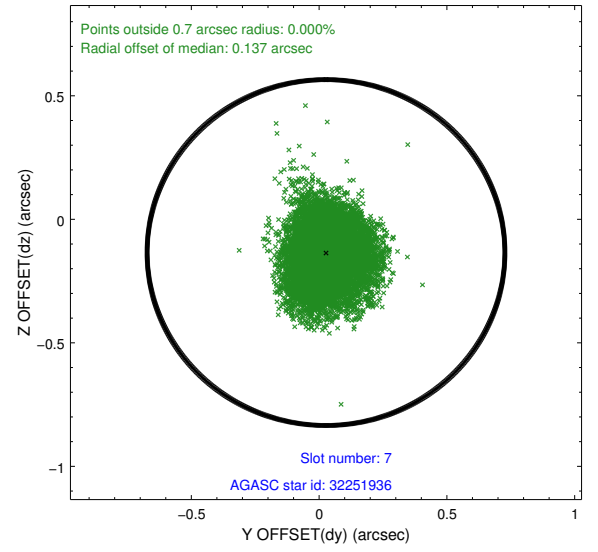
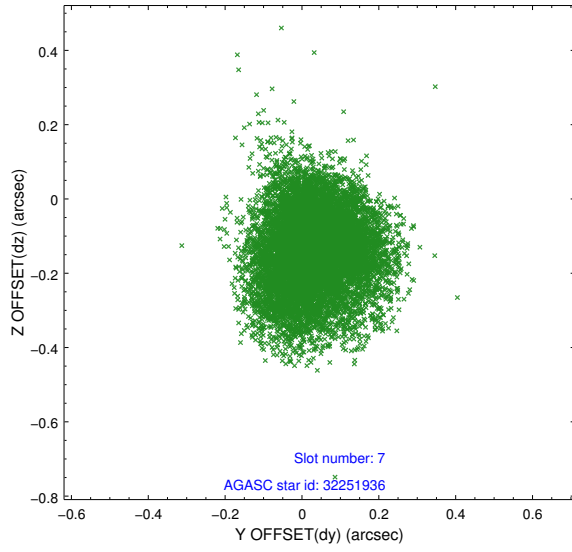
2.4.3 Slot 5



2.4.4 Slot 6

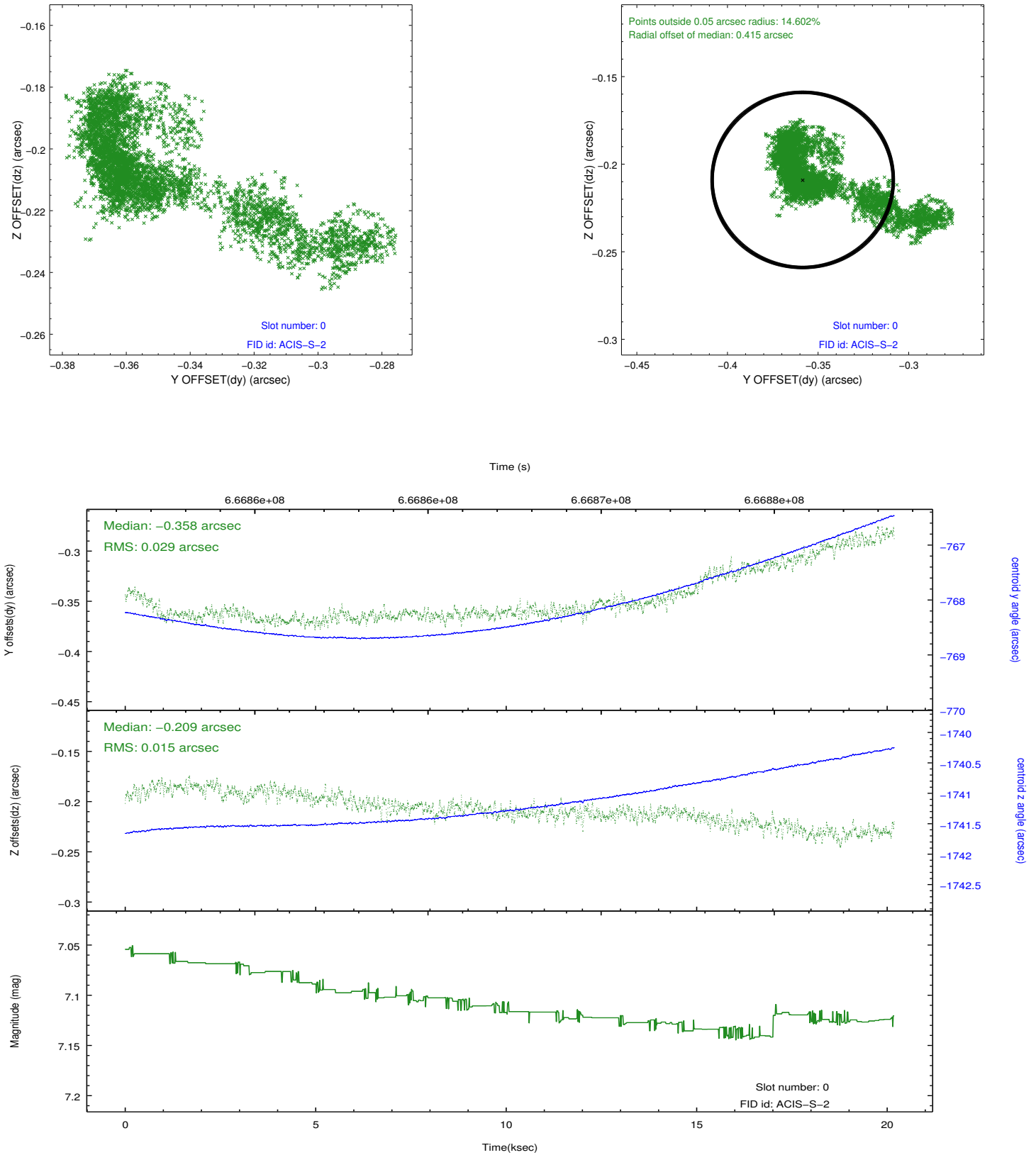


2.4.5 Slot 7

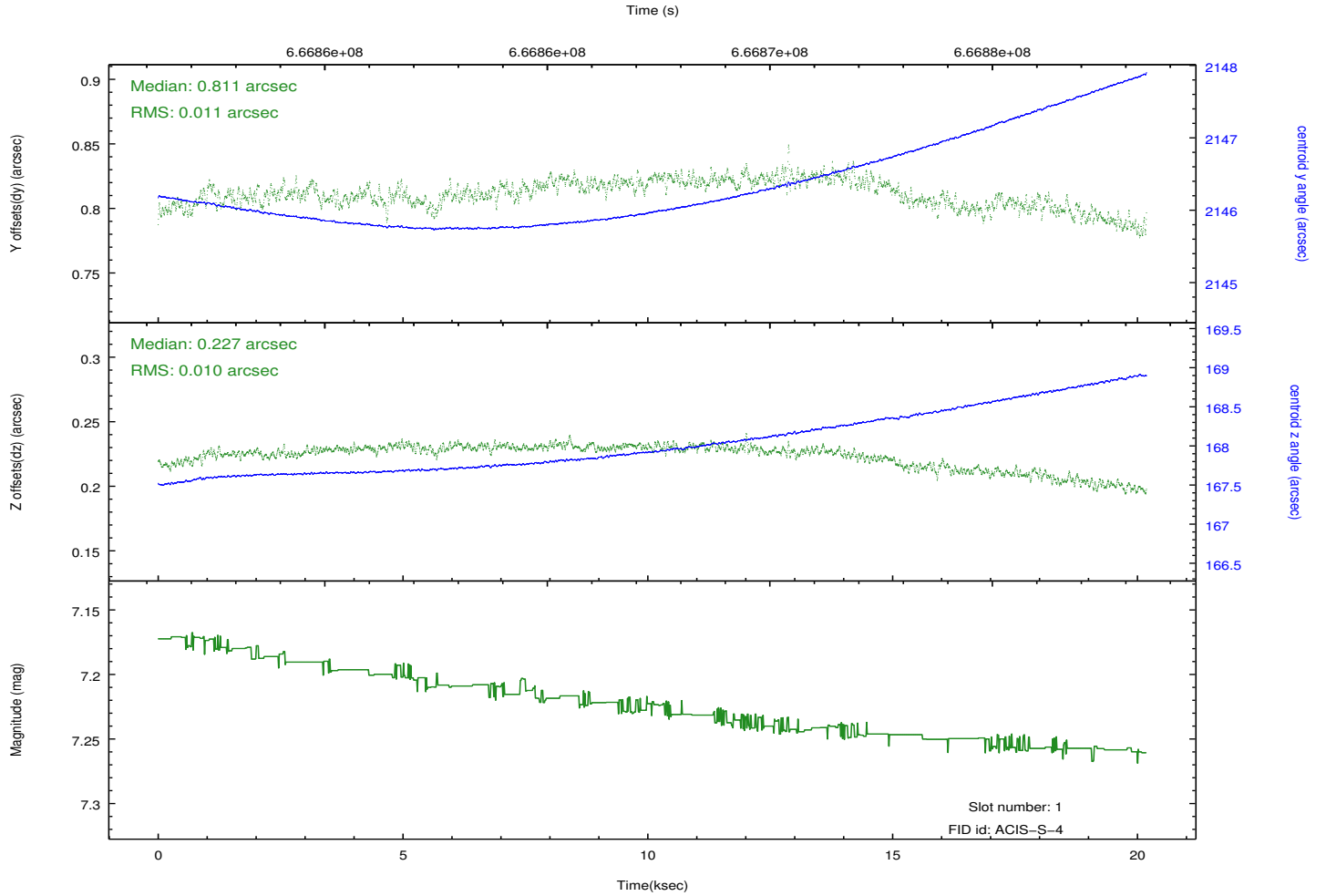
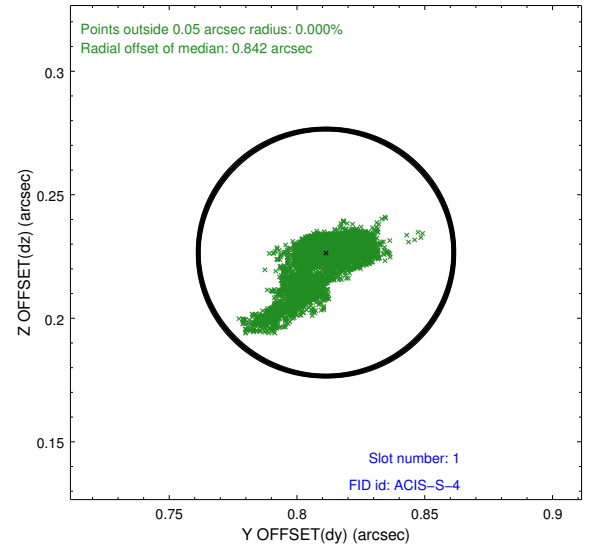
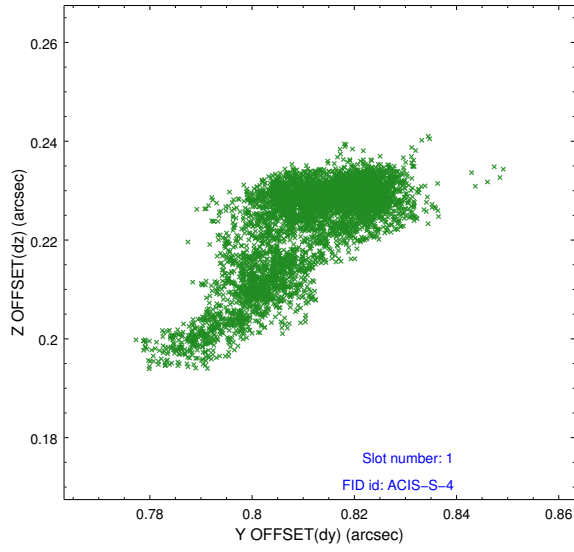


2.5 FID Slots

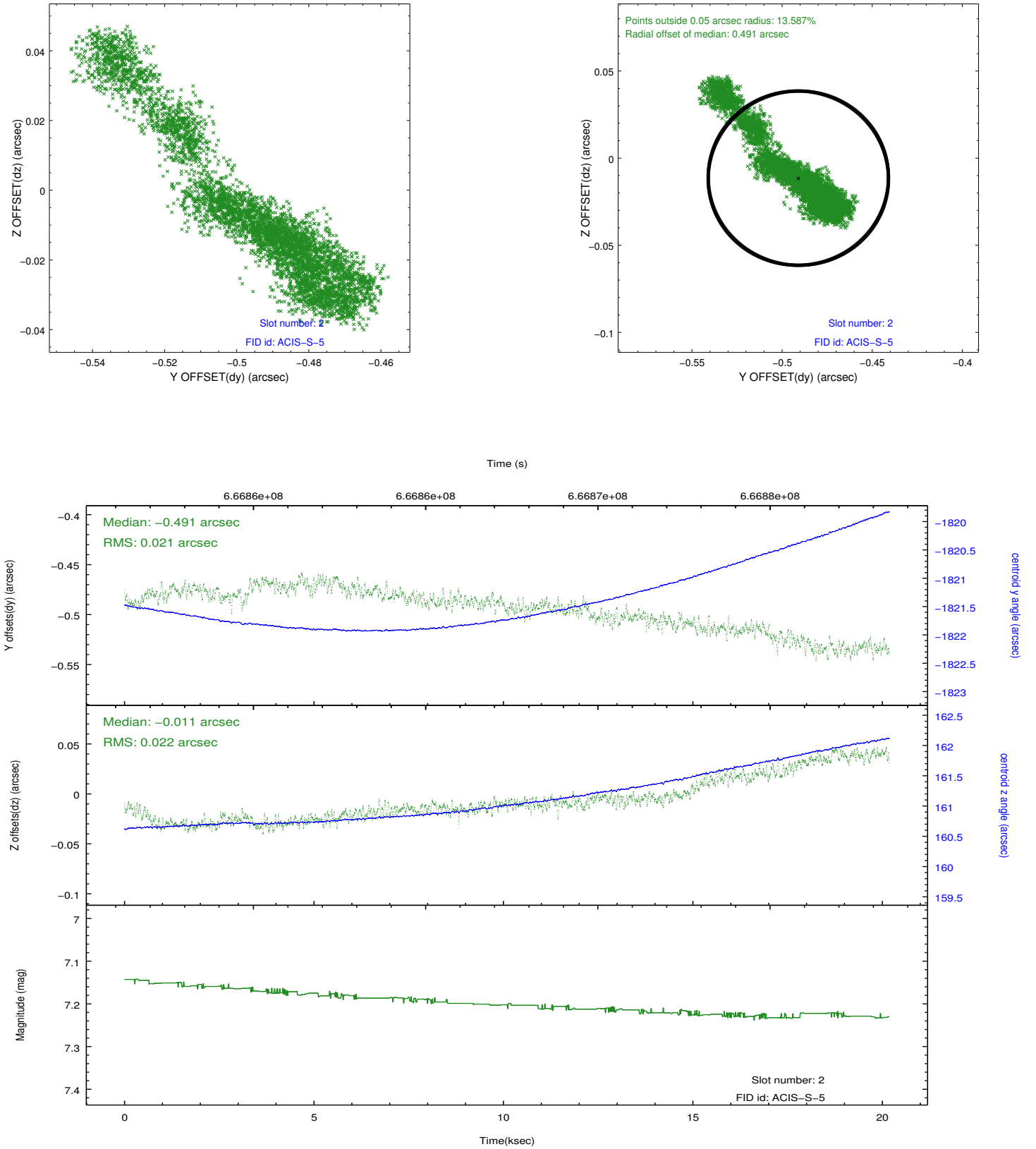
2.5.1 Slot 0



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)	2019.02.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.089674382687

A.2 Comments