

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22114 - L2 Version 1
Chandra X-Ray Center

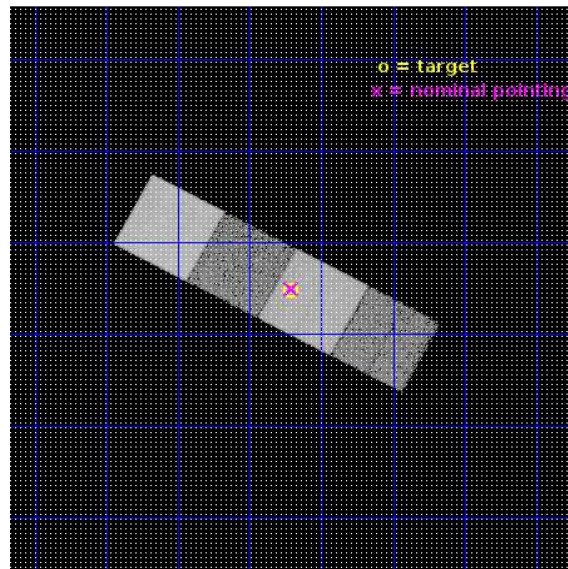
L2 Processing Date : Feb 19 2019

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1 Front

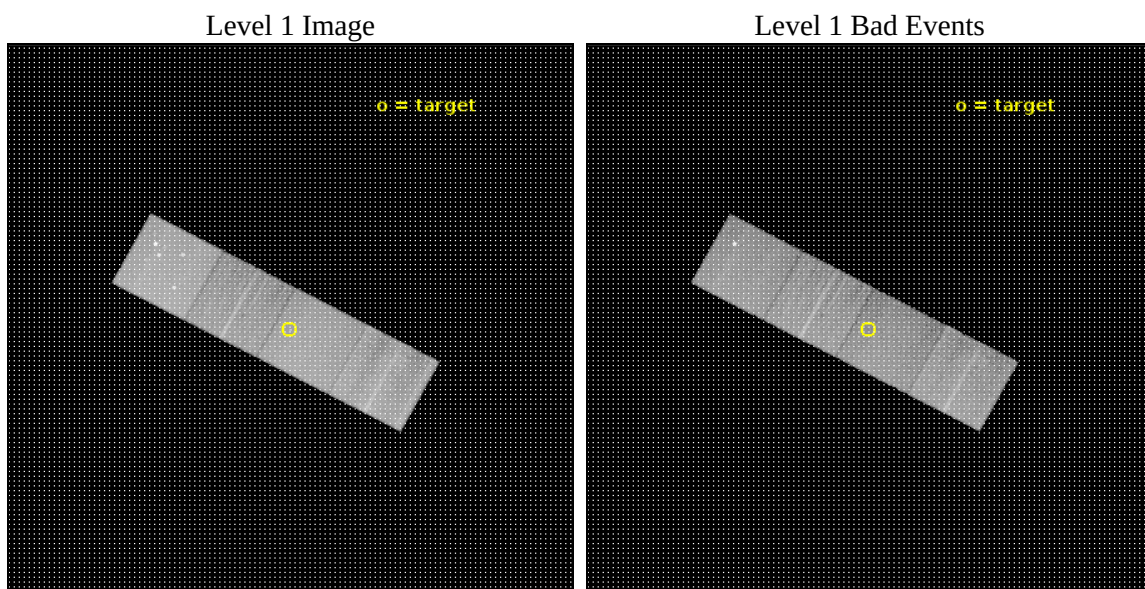
seq_num	703864	Sequence number
obs_id	22114	Observation id
title	Calibration of the quasar Hubble diagram with z	Proposal title
observer	Francesca Civano	Principal investigator
object	SDSSJ103712.55+015444.0	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	159.302307	Observer's specified target RA [deg]
dec_targ	1.912231	Observer's specified target Dec [deg]
ra_nom	159.30230829722	Nominal RA [deg]
dec_nom	1.9162345136487	Nominal Dec [deg]
roll_nom	28.156658632541	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19064.576020241	Sum of GTIs [s]
livetime	18815.4832994	Livetime [s]
ontime5	19064.534980297	Sum of GTIs [s]
ontime6	19064.493940234	Sum of GTIs [s]
ontime7	19064.576020241	Sum of GTIs [s]
ontime8	19055.02976954	Sum of GTIs [s]
l2events	217472	Number of level 2 events



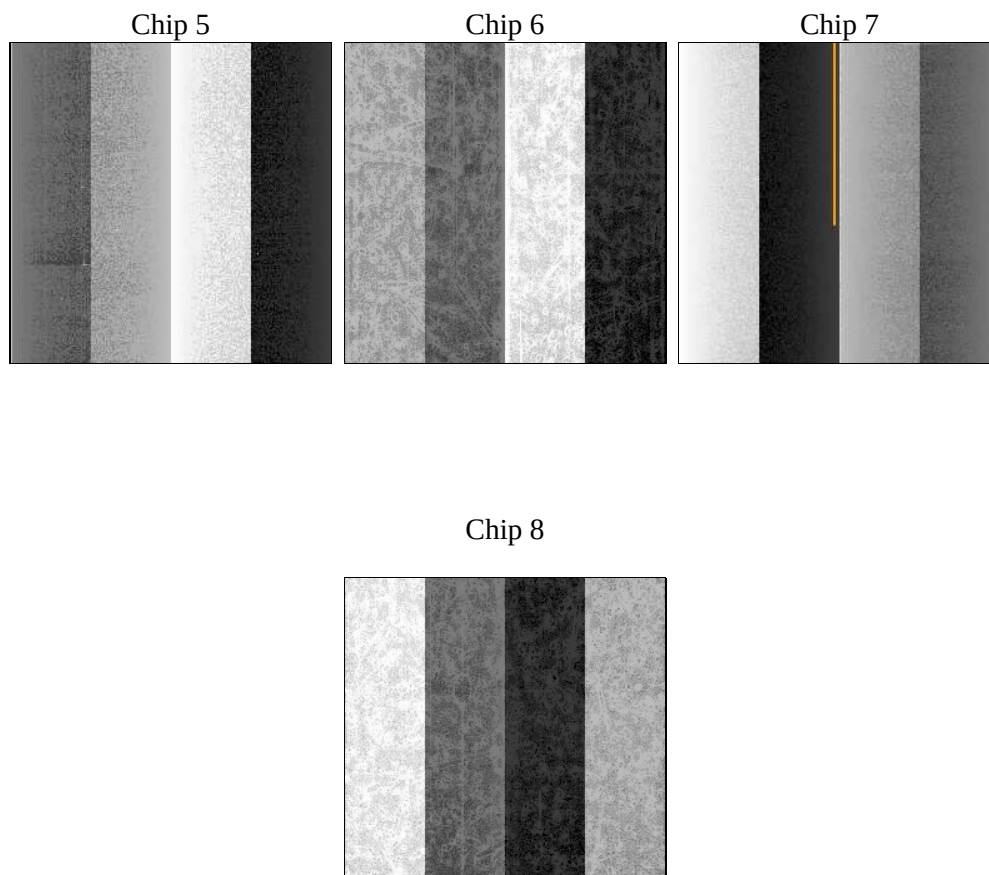
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19001.043000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	19064.576020241	Sum of GTIs [s]
caldsver	4.8.2	 	ontime5	19064.534980297	Sum of GTIs [s]
date	2019-02-19T05:34:37	Date and time of file creation	ontime6	19064.493940234	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	19064.576020241	Sum of GTIs [s]
			ontime8	19055.02976954	Sum of GTIs [s]
			l1events	778197	Number of level 1 events

2.1.4 Events

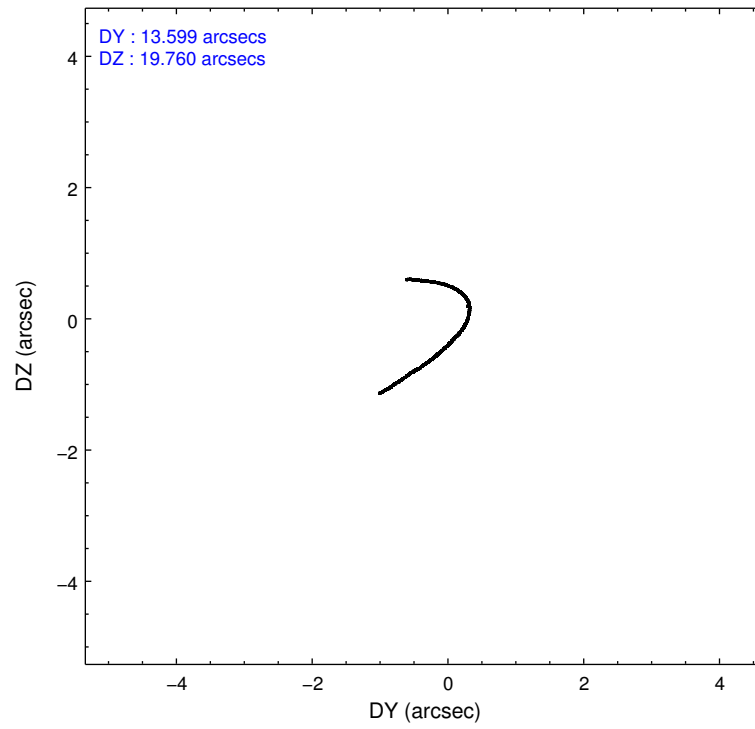
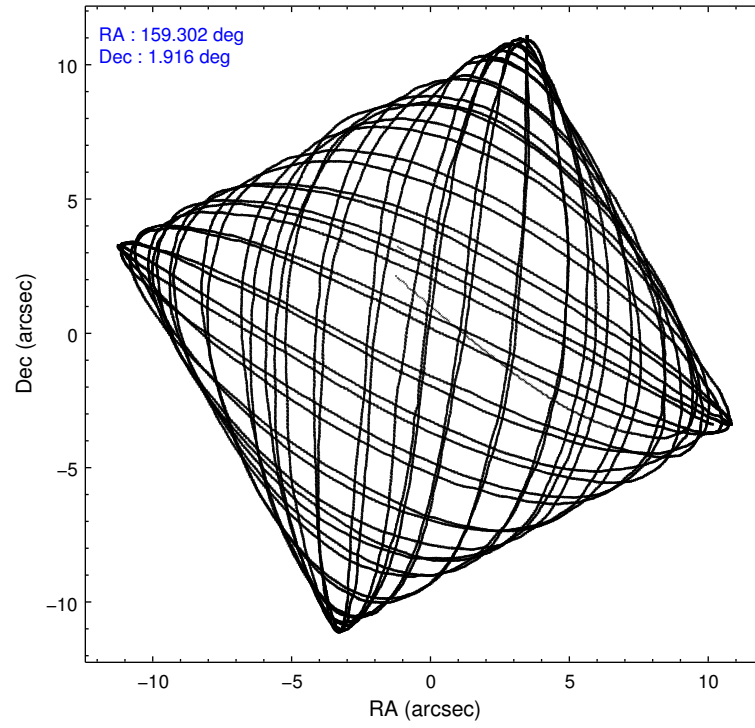
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	243893	146930	189873	197501
rejected events	124238	130413	106712	144331
rejected %	50%	88%	56%	73%

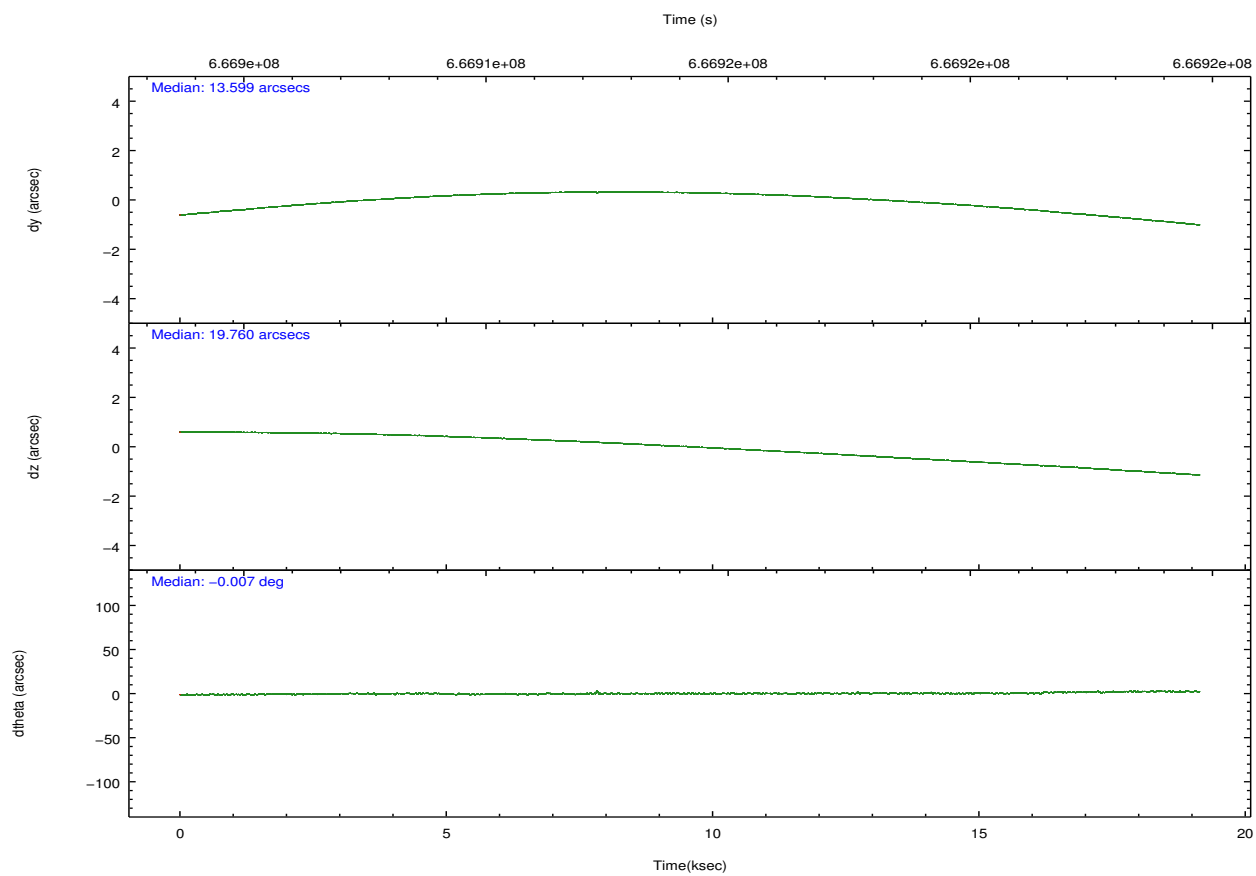
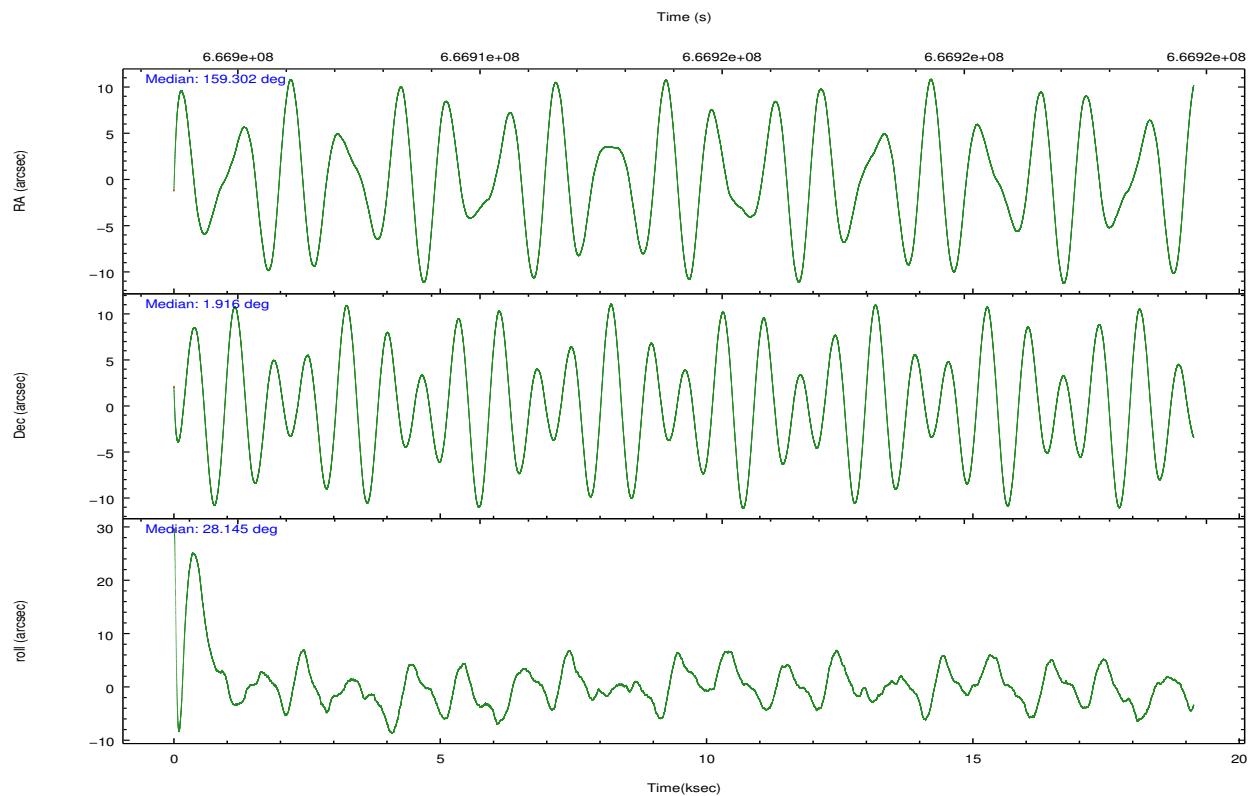
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	14748	5414	7051	14896
	6%	3%	3%	7%
grade 1 events	533	75	288	164
	0%	0%	0%	0%
grade 2 events	37108	3895	17885	13030
	15%	2%	9%	6%
grade 3 events	3607	1690	6673	5495
	1%	1%	3%	2%
grade 4 events	3229	1598	6516	5184
	1%	1%	3%	2%
grade 5 events	15836	6802	18653	10320
	6%	4%	9%	5%
grade 6 events	60992	3923	45054	14576
	25%	2%	23%	7%
grade 7 events	107840	123533	87753	133836
	44%	84%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	159.288119	159.3023082972202	Subarray requested	NONE	NONE
[deg] Pointing Dec	1.892721	1.916234513648673	Alternating exposures requested	N	N
[deg] Pointing Roll	28.000469	28.15665863254118	[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)	666904750.184000	666903545.3889199			
Observation start date	2019-02-18T19:18:01	2019-02-18T18:59:05			
[s] Observation end time (MET)	666923751.184000	666924453.85267			
Observation end date	2019-02-19T00:34:42	2019-02-19T00:47:33			
Read mode	TIMED	TIMED			

2.3 Aspect



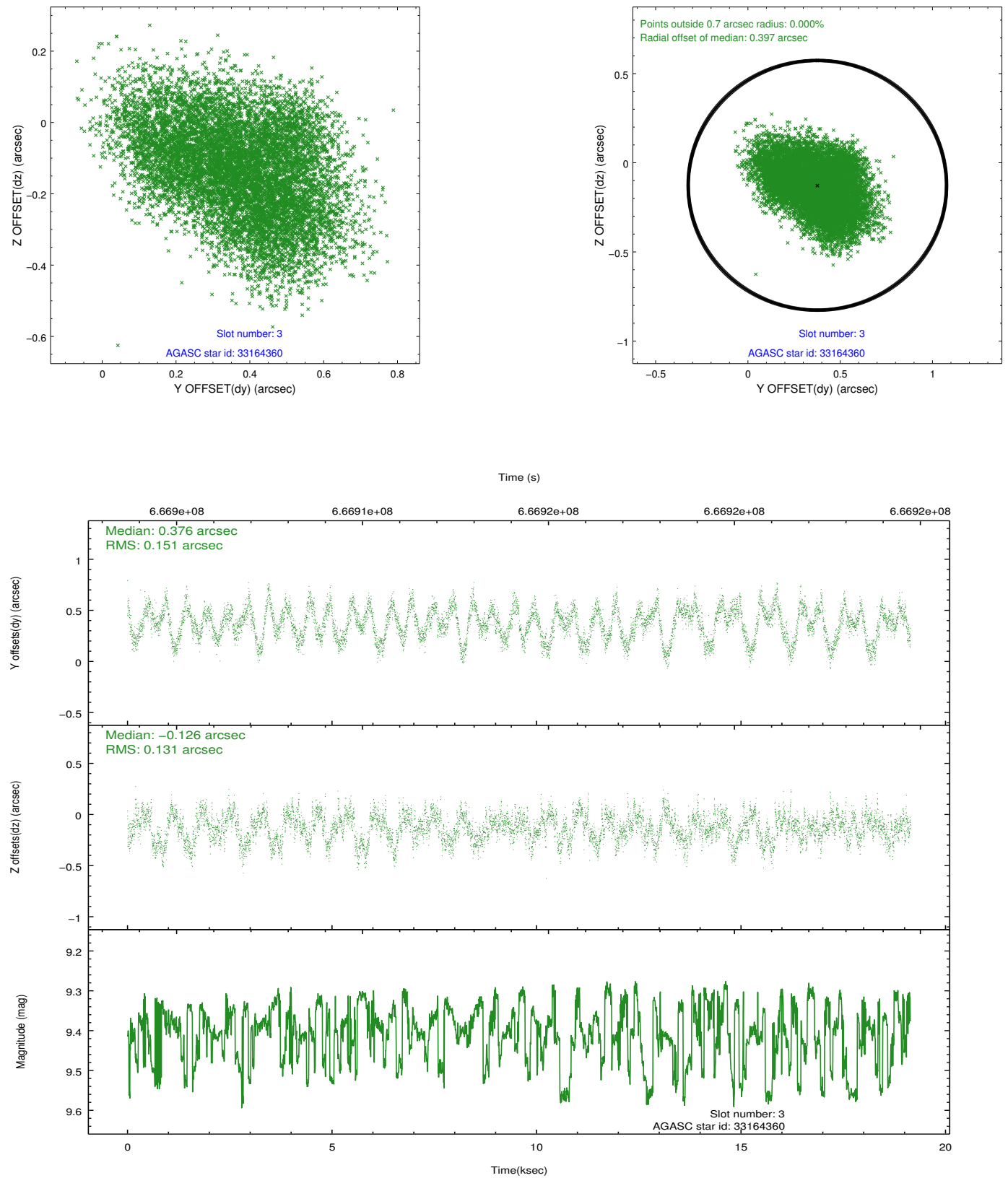


Slot Statistics

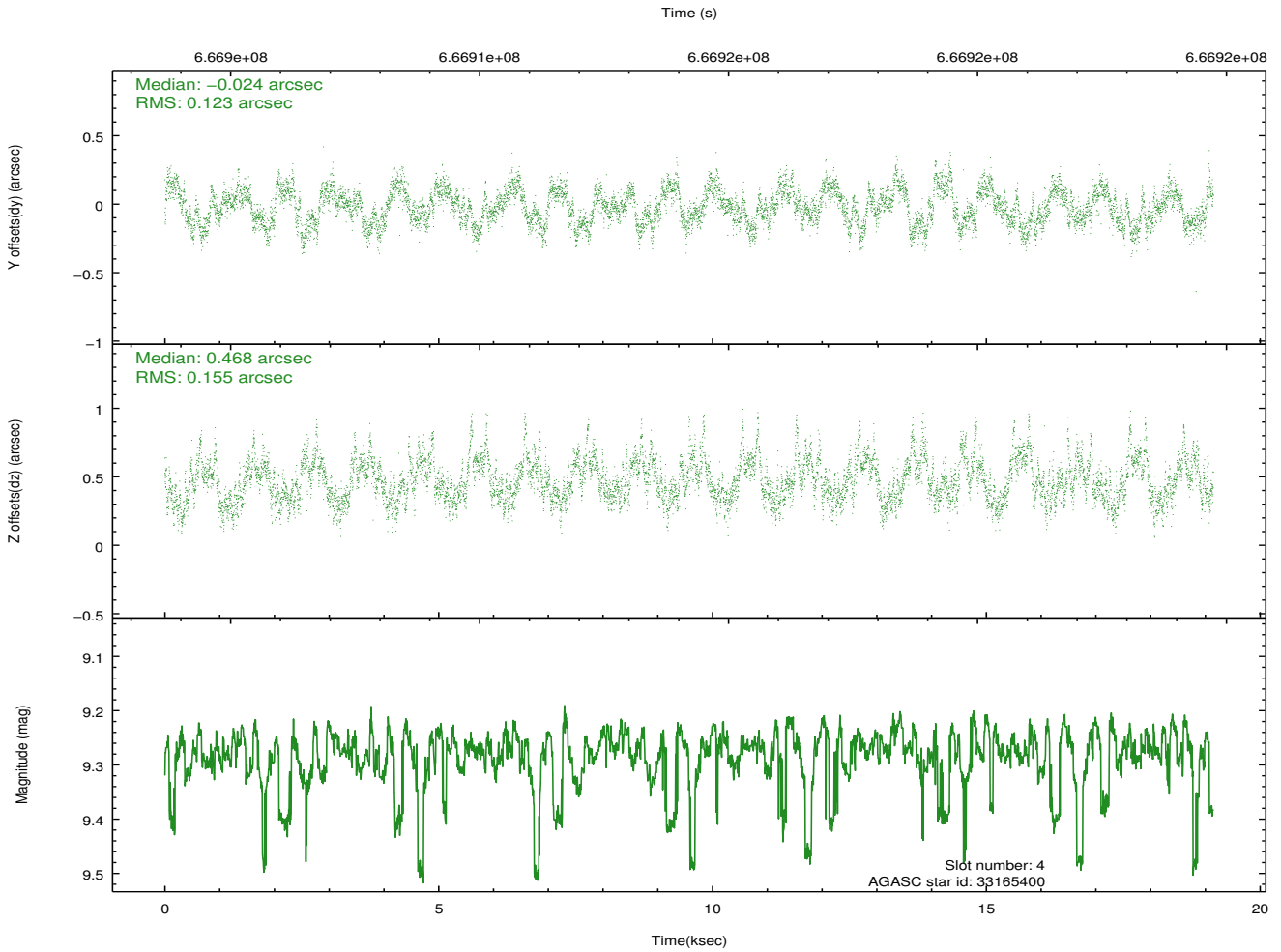
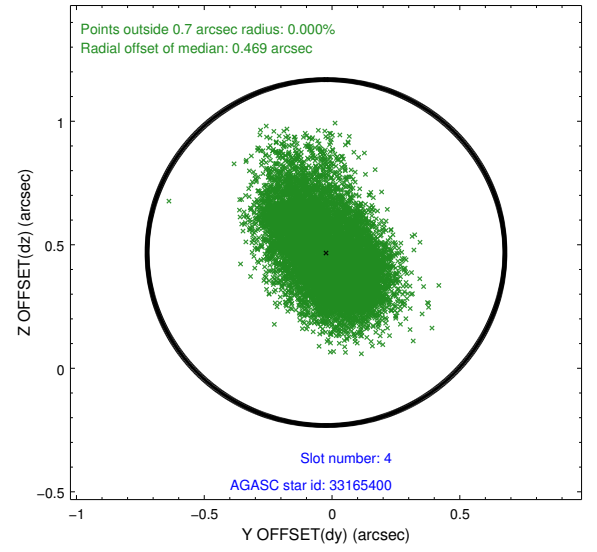
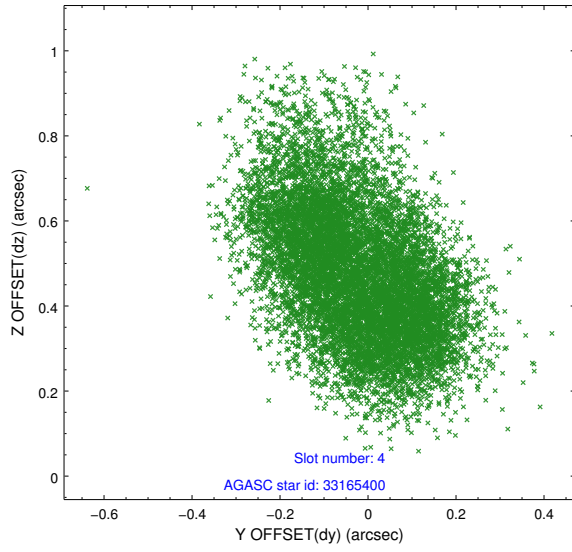
ot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.04	4668	1.000	-0.295	-0.169	0.024	0.047	0.000000	0.000000	-766.65	-1741
1	FID		ACIS-S-4	7.17	4670	1.000	0.762	0.187	0.024	0.045	0.000000	0.000000	2147.50	167
2	FID		ACIS-S-5	7.14	4670	1.000	-0.495	-0.016	0.025	0.044	0.000000	0.000000	-1819.52	160
3	GUIDE	used	33164360	9.40	9317	1.000	0.376	-0.126	0.217	0.337	158.839049	2.130124	-1025.10	1513
4	GUIDE	used	33165400	9.28	9327	1.000	-0.024	0.468	0.209	0.339	159.513480	1.495158	44.41	-1642
5	GUIDE	used	33165520	8.69	9261	1.000	0.225	0.366	0.119	0.186	159.073615	1.736937	-944.51	-132
6	GUIDE	used	33166512	9.17	9325	1.000	-0.105	-0.014	0.202	0.344	159.911704	1.636723	1549.37	-1866
7	GUIDE	used	33555000	9.31	9325	1.000	-0.471	-0.691	0.215	0.328	159.024460	2.525654	231.96	2456

2.4 Star Slots

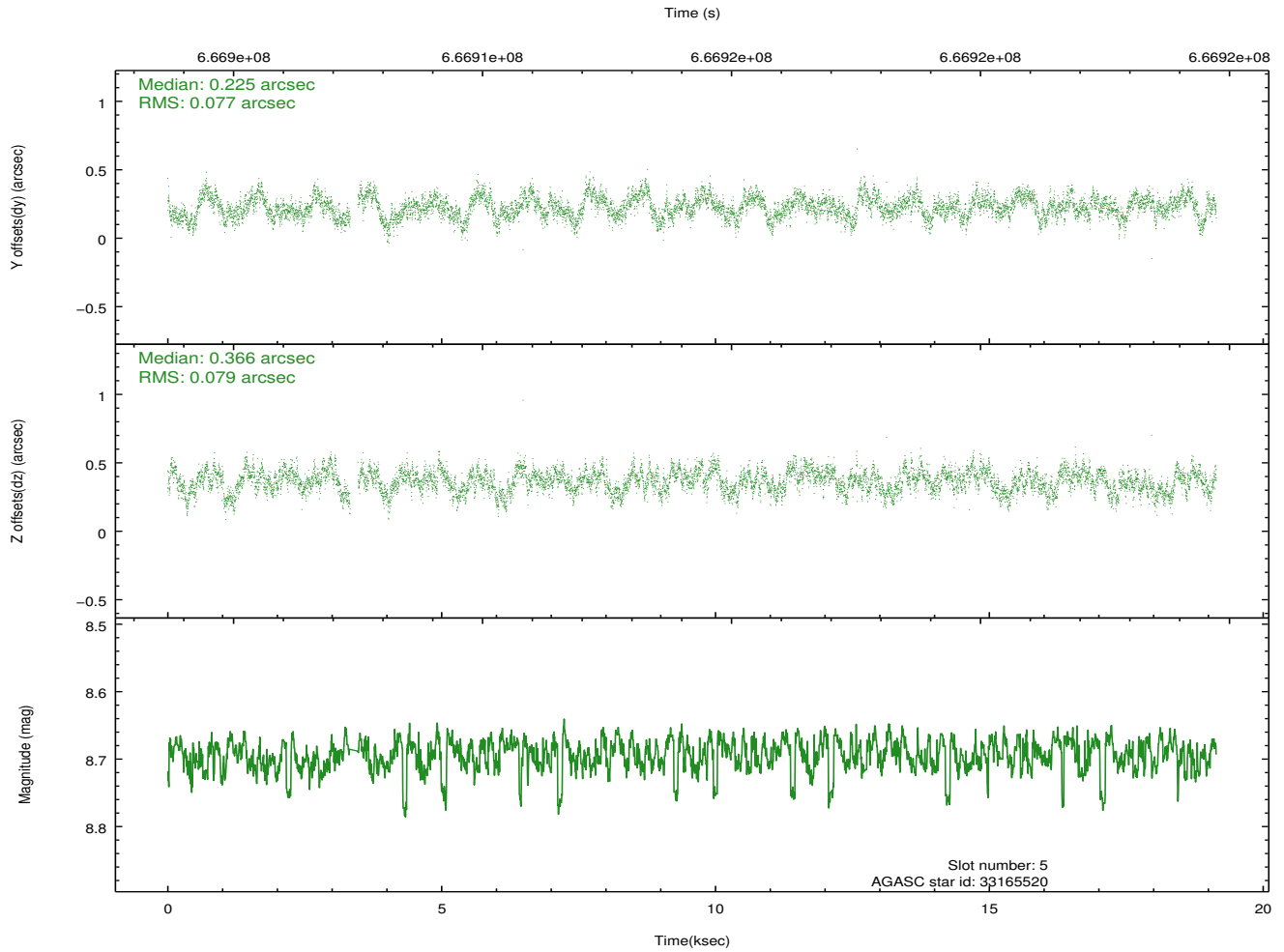
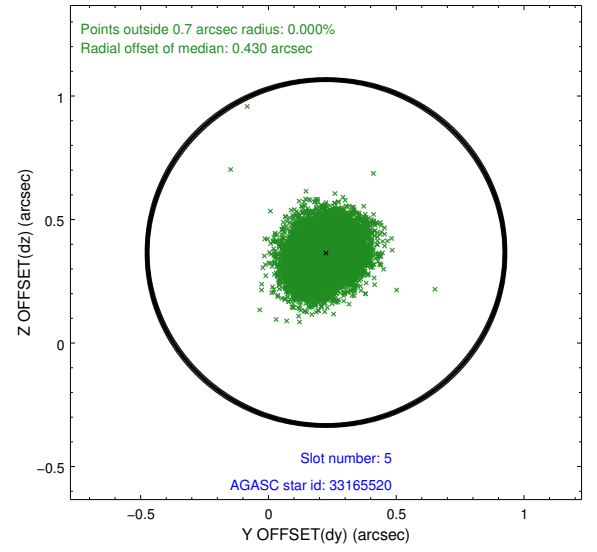
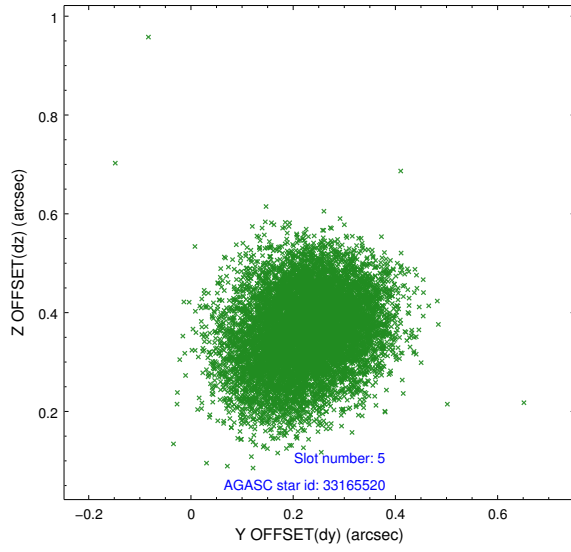
2.4.1 Slot 3



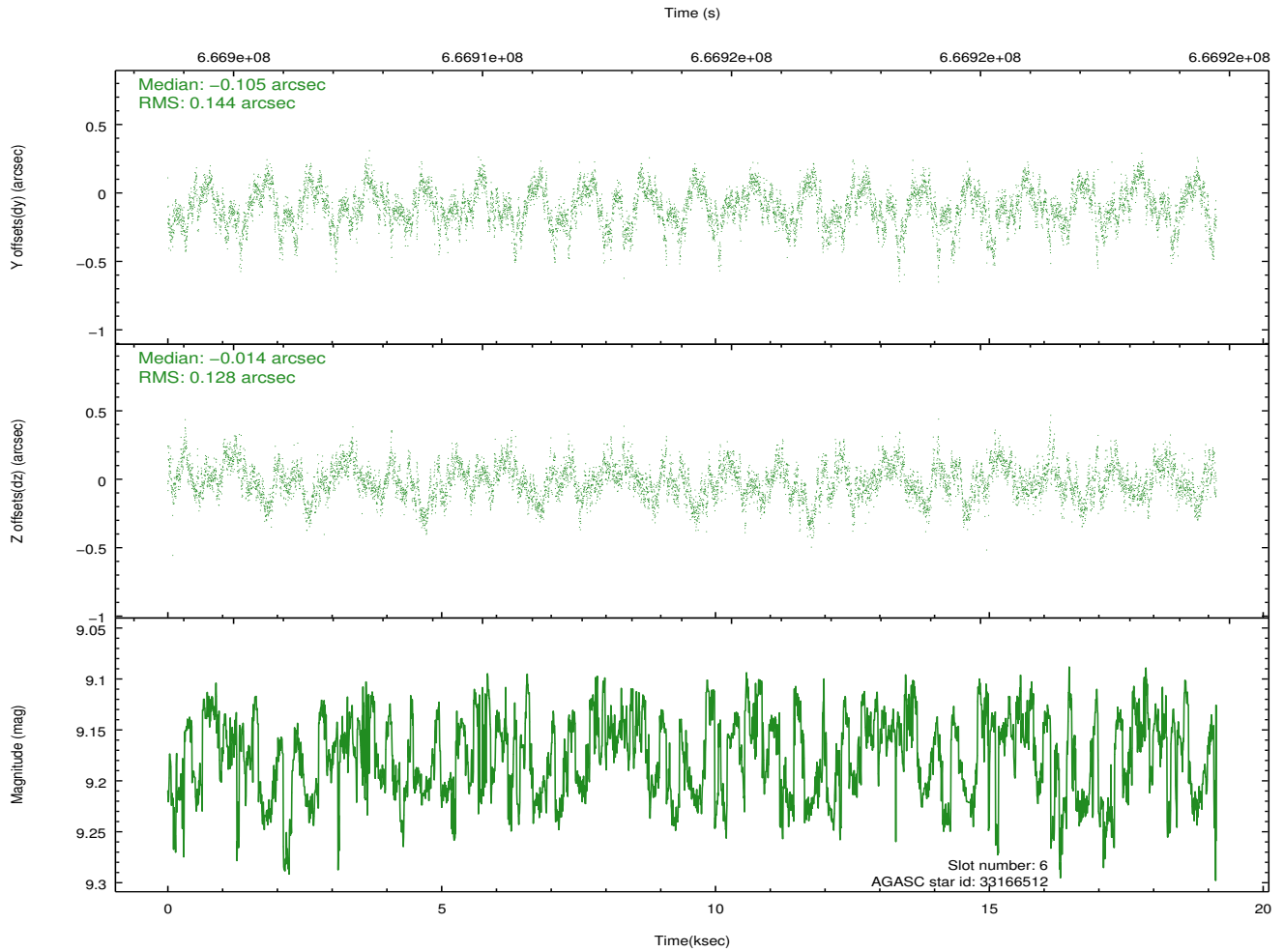
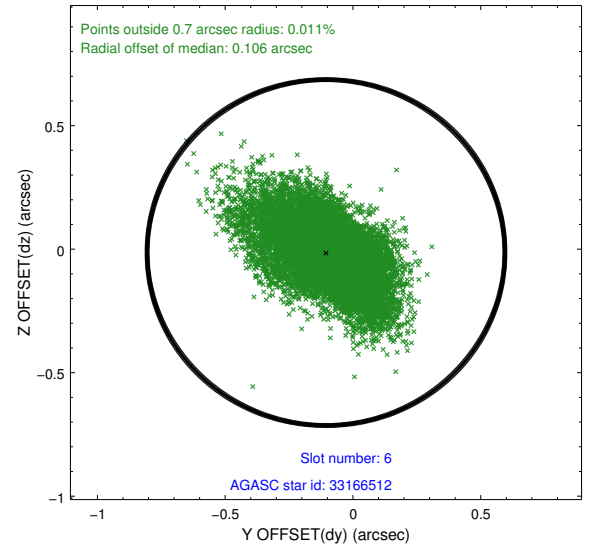
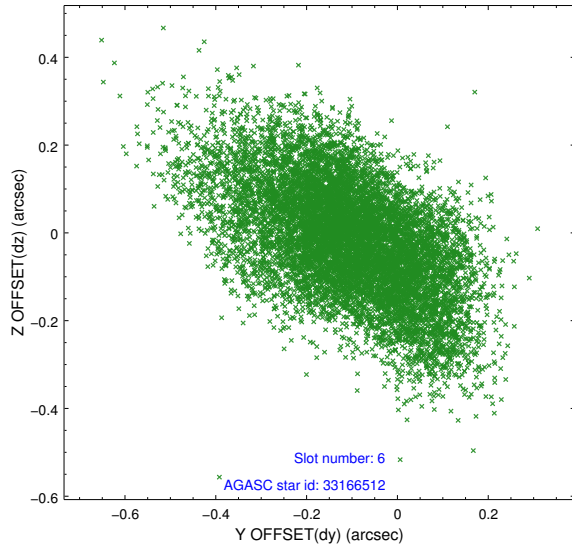
2.4.2 Slot 4



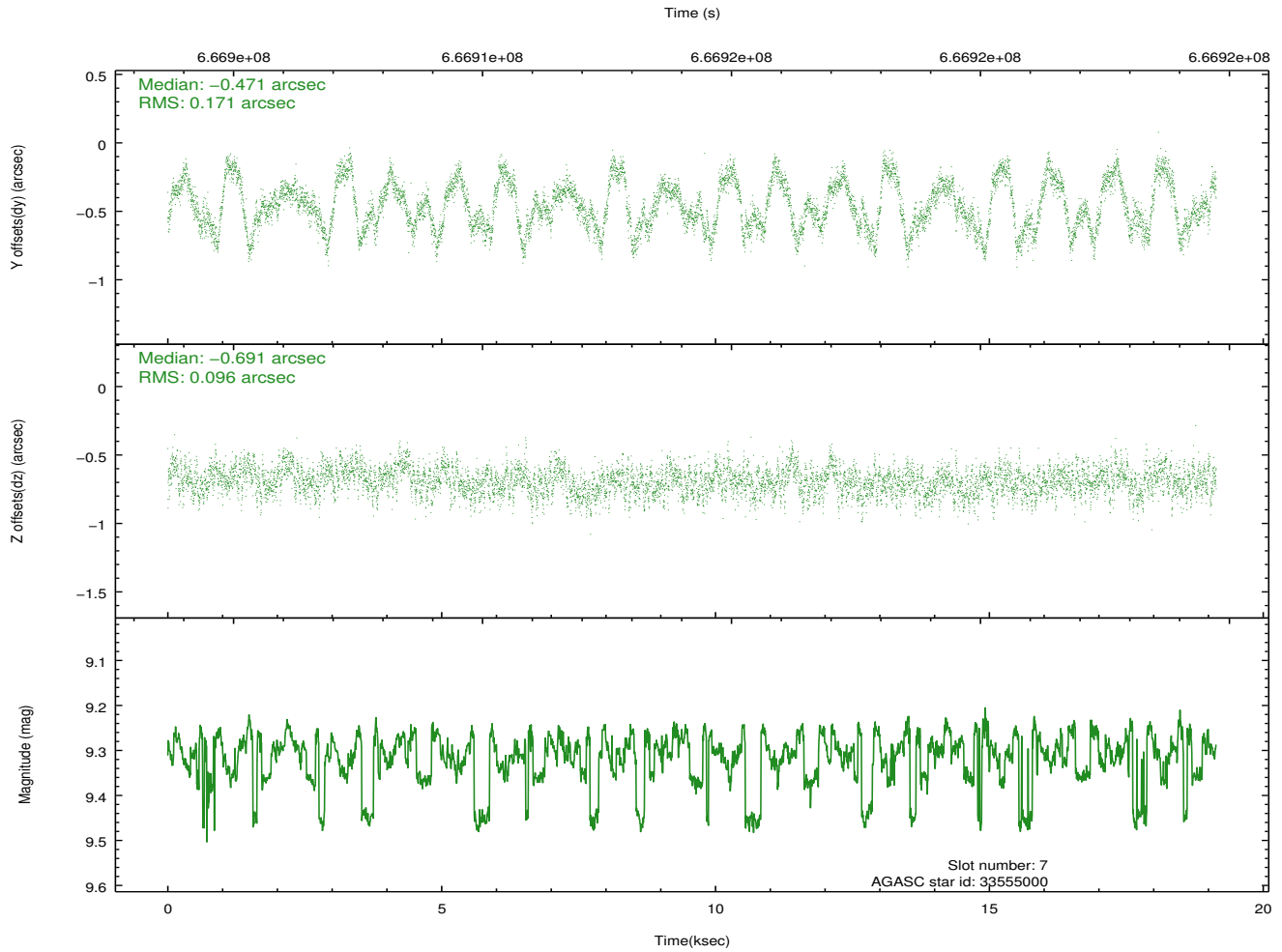
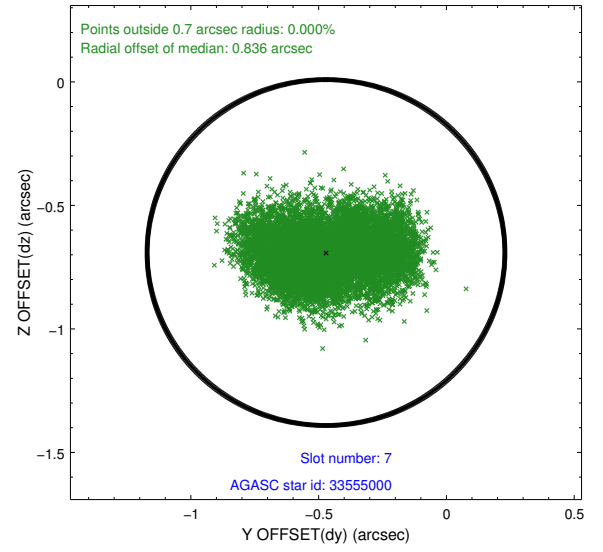
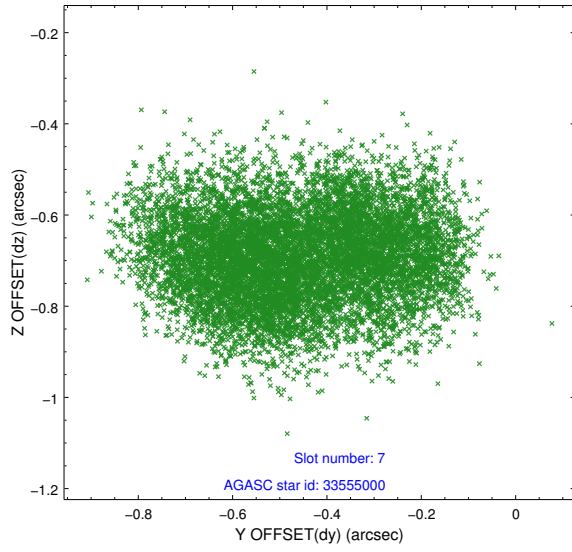
2.4.3 Slot 5



2.4.4 Slot 6

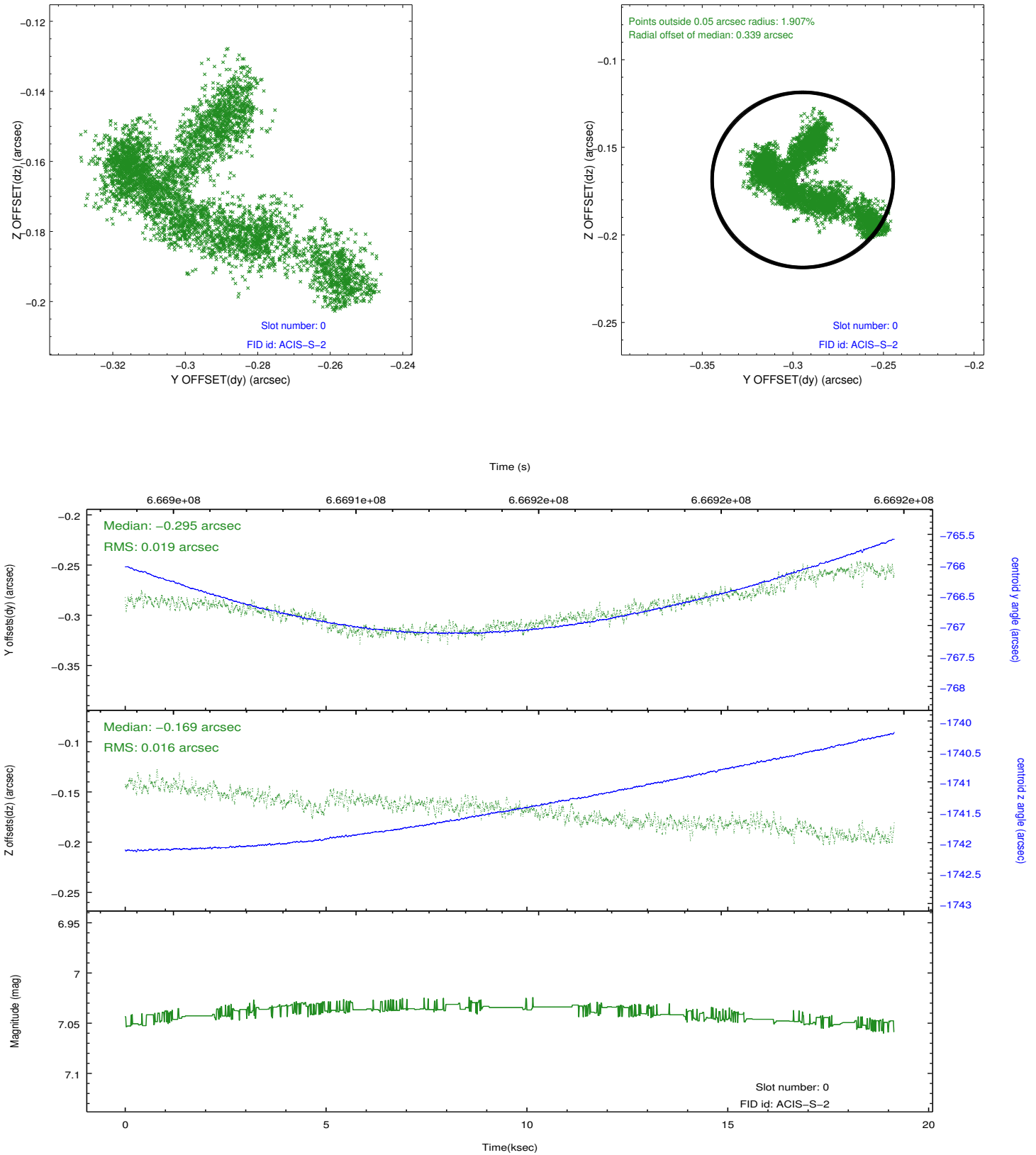


2.4.5 Slot 7

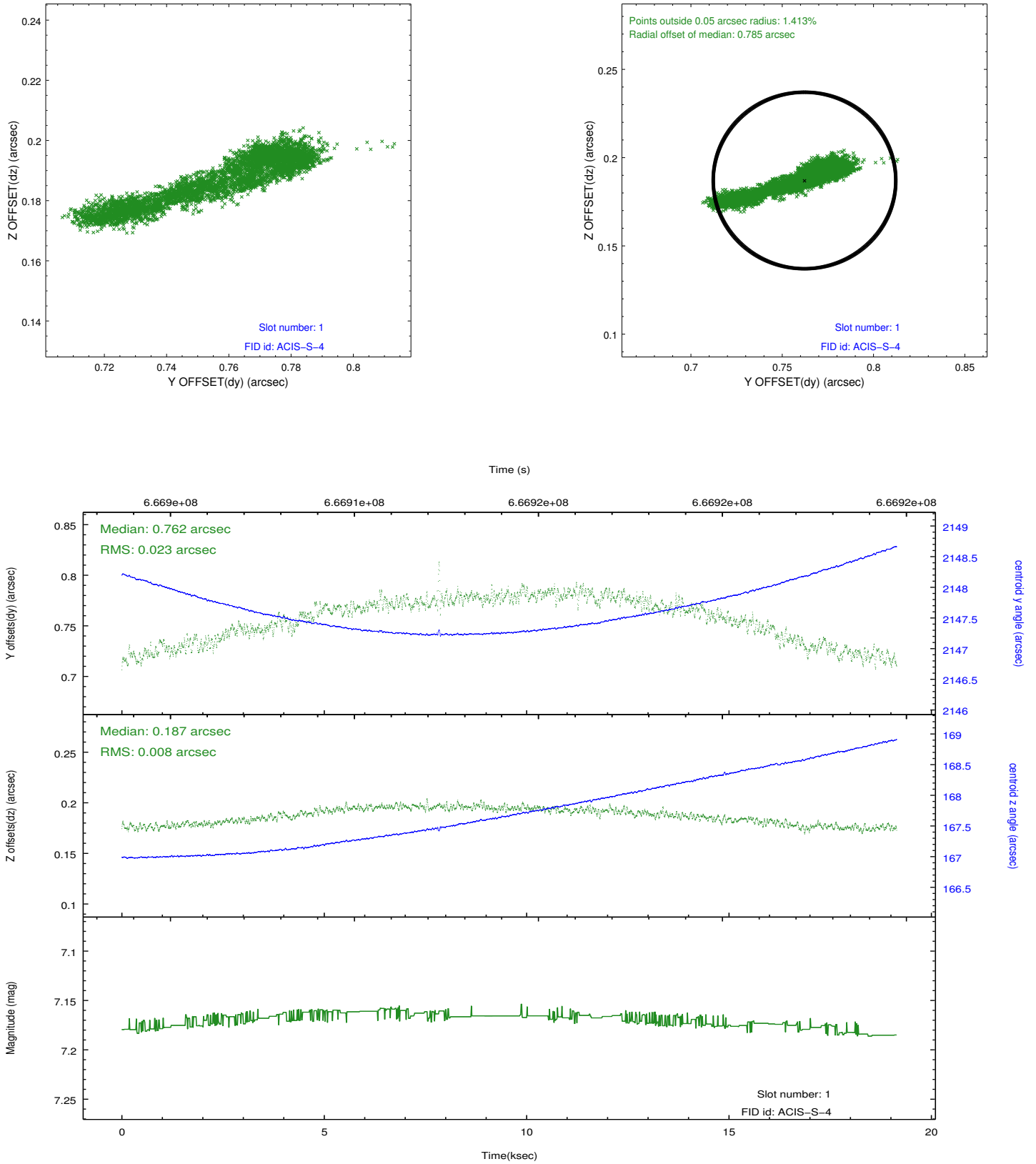


2.5 FID Slots

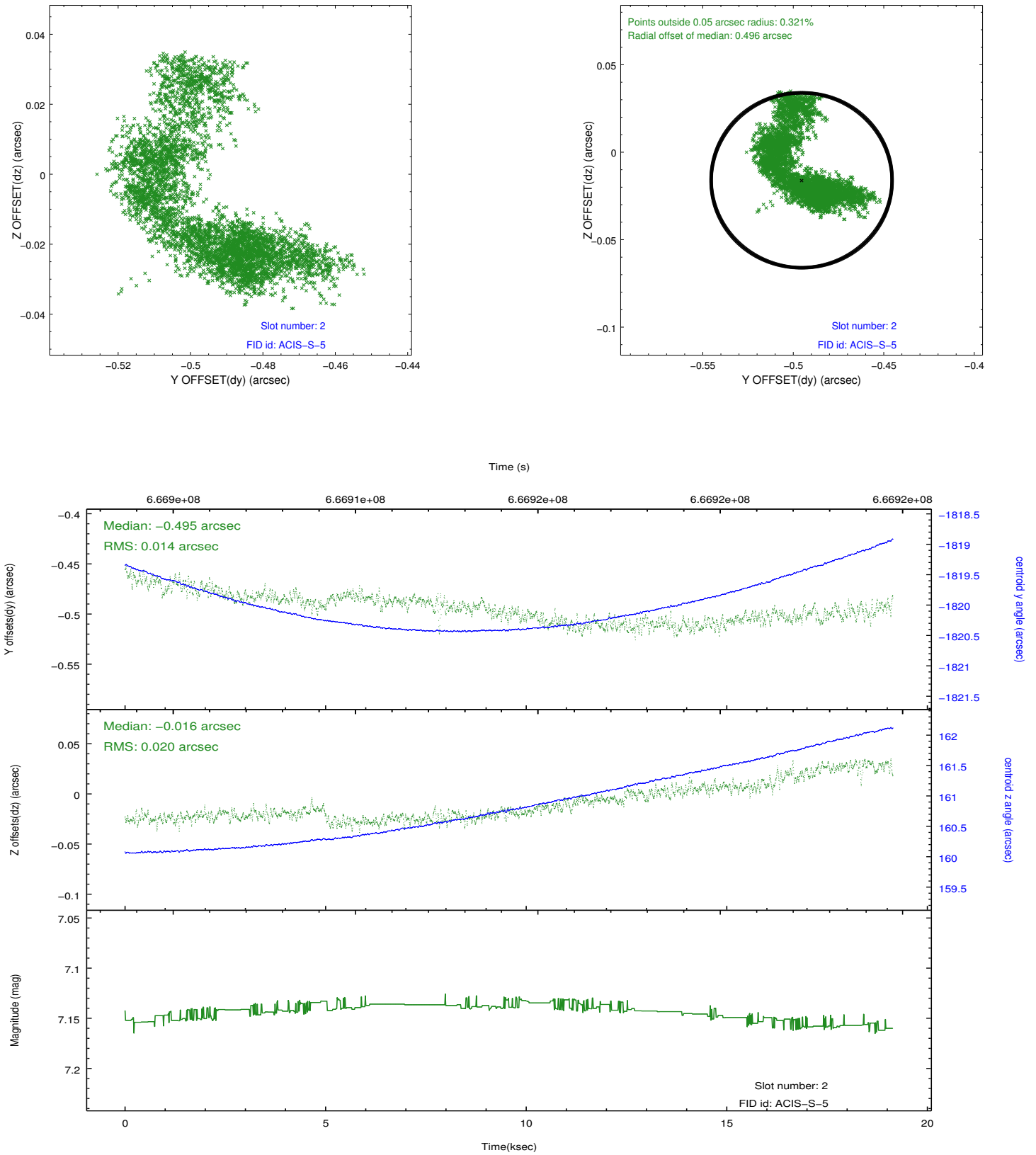
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2019.02.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.064576020241

A.2 Comments