

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22131 - L2 Version 1
Chandra X-Ray Center

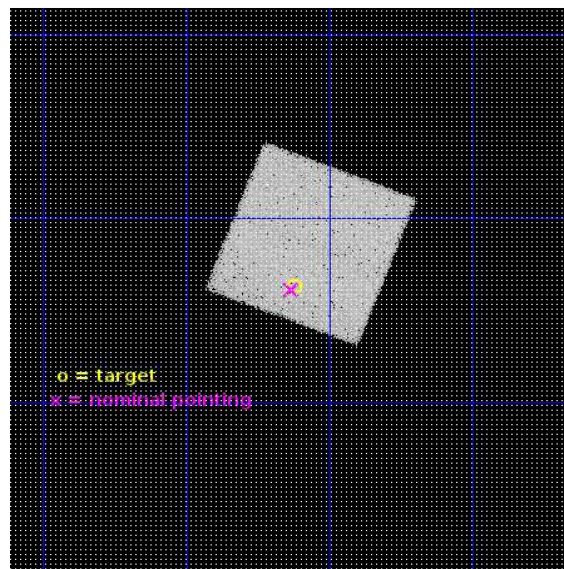
L2 Processing Date : Mar 4 2019

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1 Front

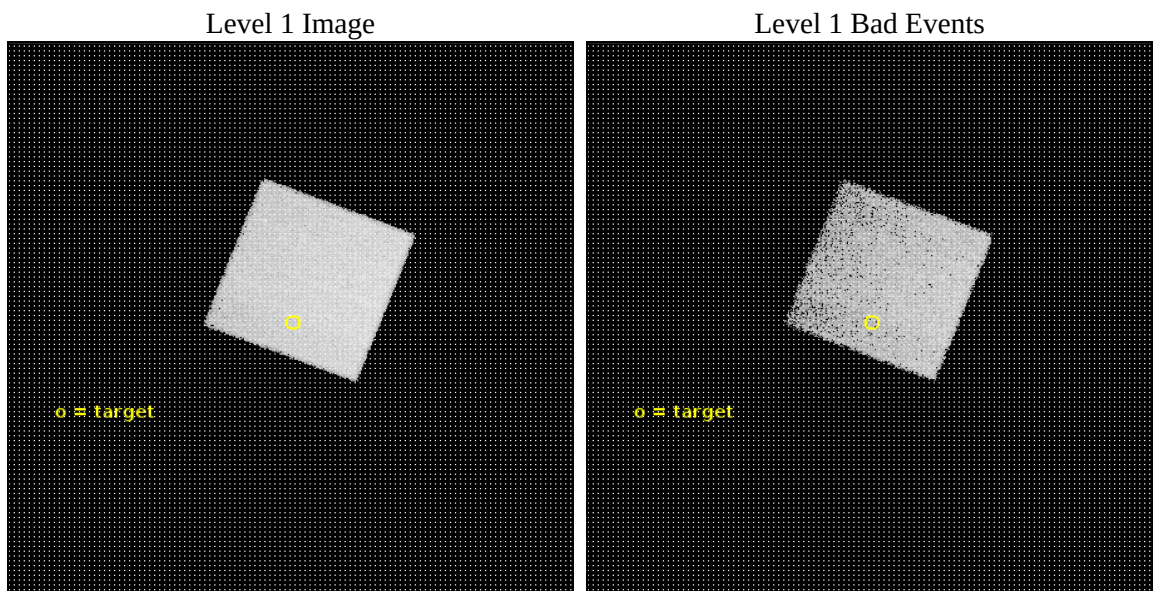
seq_num	703870	Sequence number
obs_id	22131	Observation id
title	Chandra-NuSTAR synergy in the NuSTAR serendipitous survey	Proposal
observer	Dr David Alexander	Principal investigator
object	PMN_J0948p0022_s3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	147.280579	Observer's specified target RA [deg]
dec_targ	0.437861	Observer's specified target Dec [deg]
ra_nom	147.28321735978	Nominal RA [deg]
dec_nom	0.43514703806646	Nominal Dec [deg]
roll_nom	291.15471951293	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19118.59916544	Sum of GTIs [s]
livetime	18860.58634425	Livetime [s]
ontime7	19118.59916544	Sum of GTIs [s]
l2events	77776	Number of level 2 events



2 OBI

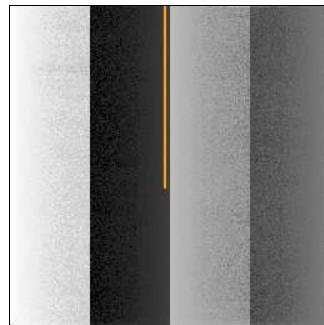
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19027.049000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	19118.59916544	Sum of GTIs [s]
caldsver	4.8.2	 	ontime7	19118.59916544	Sum of GTIs [s]
date	2019-03-04T16:26:02	Date and time of file creation	l1events	185192	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

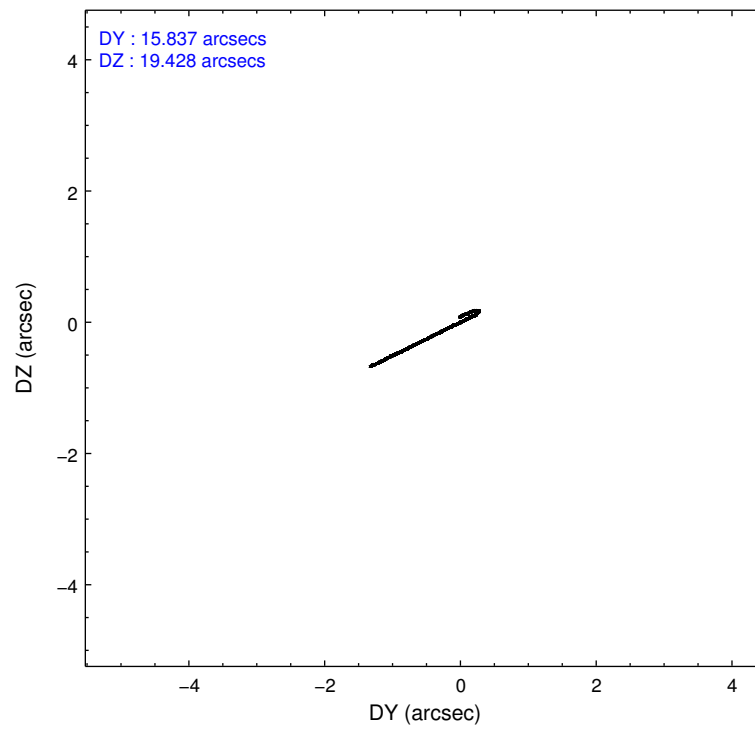
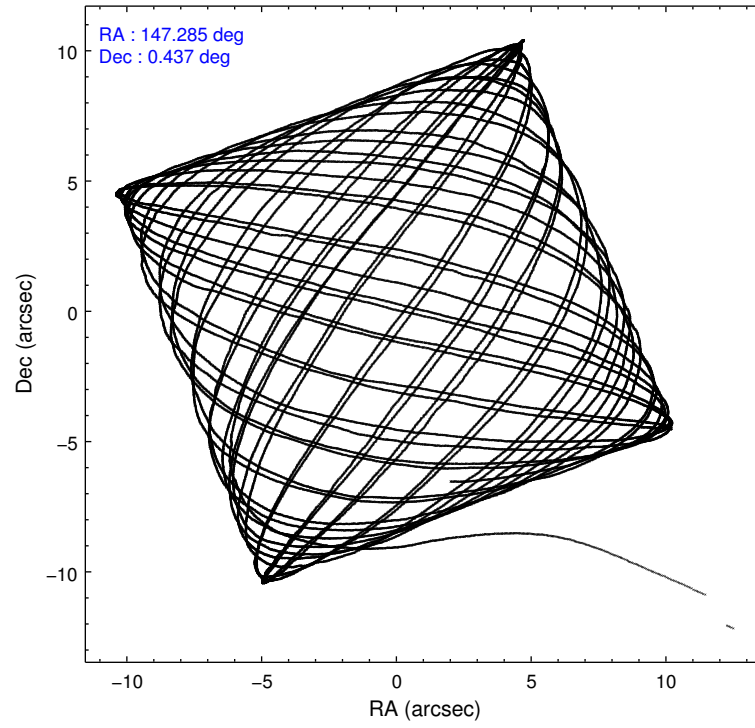
	ccd 7
level 1 events	185192
rejected events	105225
rejected %	56%

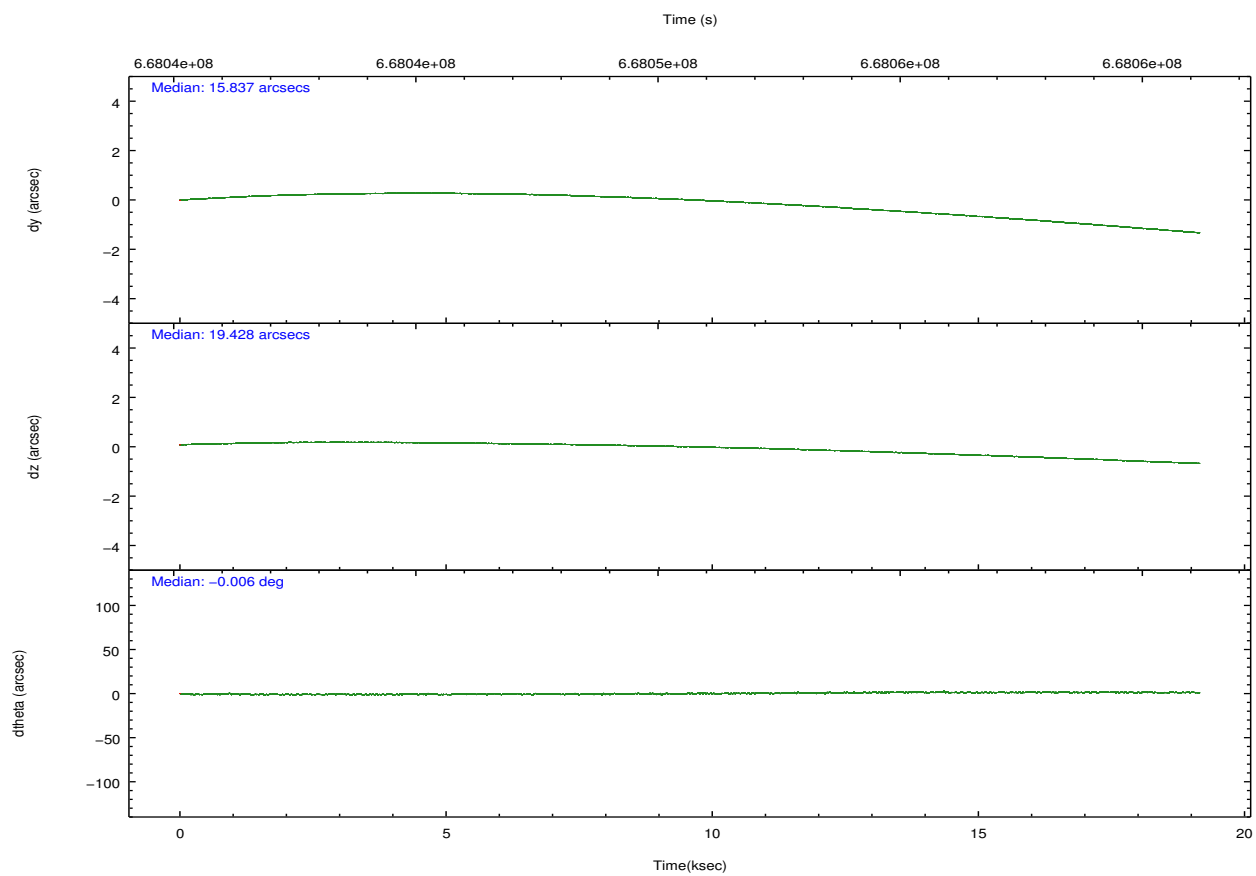
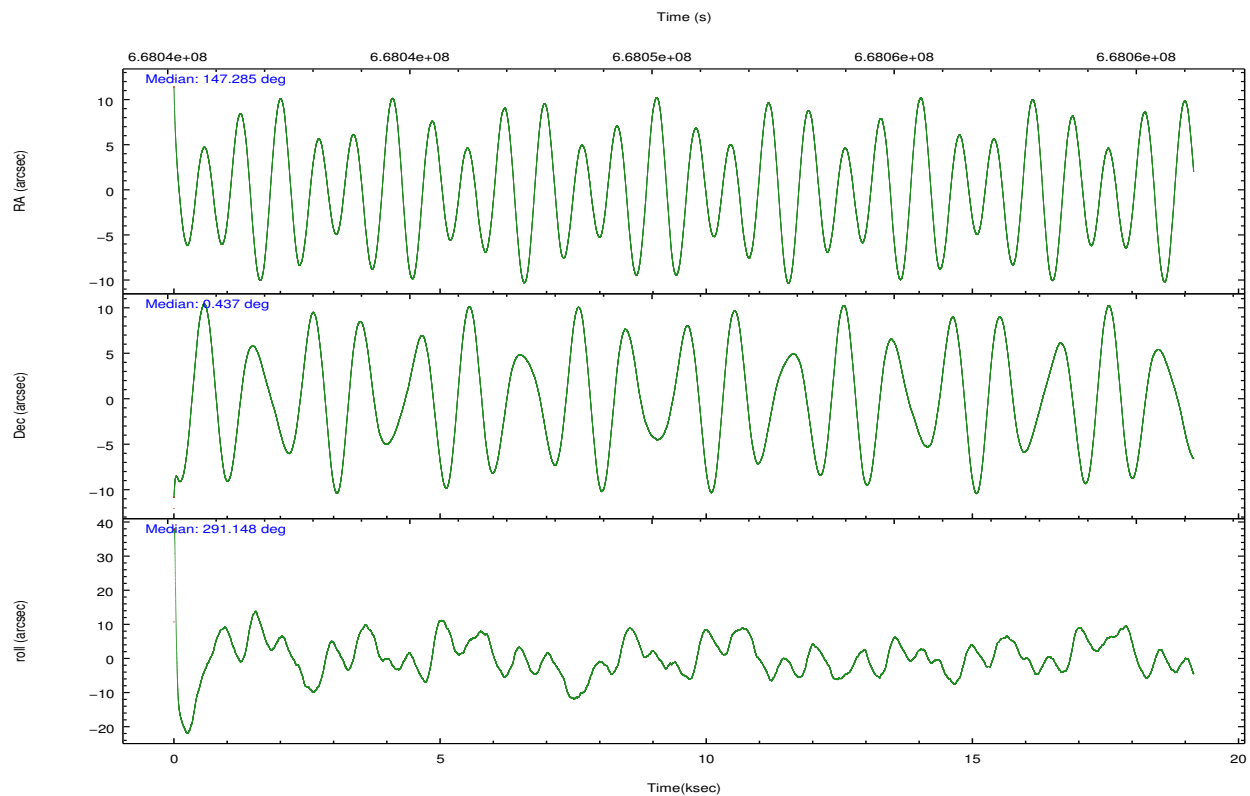
	ccd 7
grade 0 events	6648
	3%
grade 1 events	276
	0%
grade 2 events	16738
	9%
grade 3 events	6113
	3%
grade 4 events	5971
	3%
grade 5 events	17963
	9%
grade 6 events	44526
	24%
grade 7 events	86957
	46%

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	147.263493	147.2832173597778	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.453789	0.4351470380664615	Alternating exposures requested	N	N
[deg] Pointing Roll	290.994385	291.1547195129281	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	668041216.184000	668039717.46935			
Observation start date	2019-03-03T22:59:07	2019-03-03T22:35:17			
[s] Observation end time (MET)	668060244.184000	668060991.85812			
Observation end date	2019-03-04T04:16:15	2019-03-04T04:29:51			
Read mode	TIMED	TIMED			

2.3 Aspect



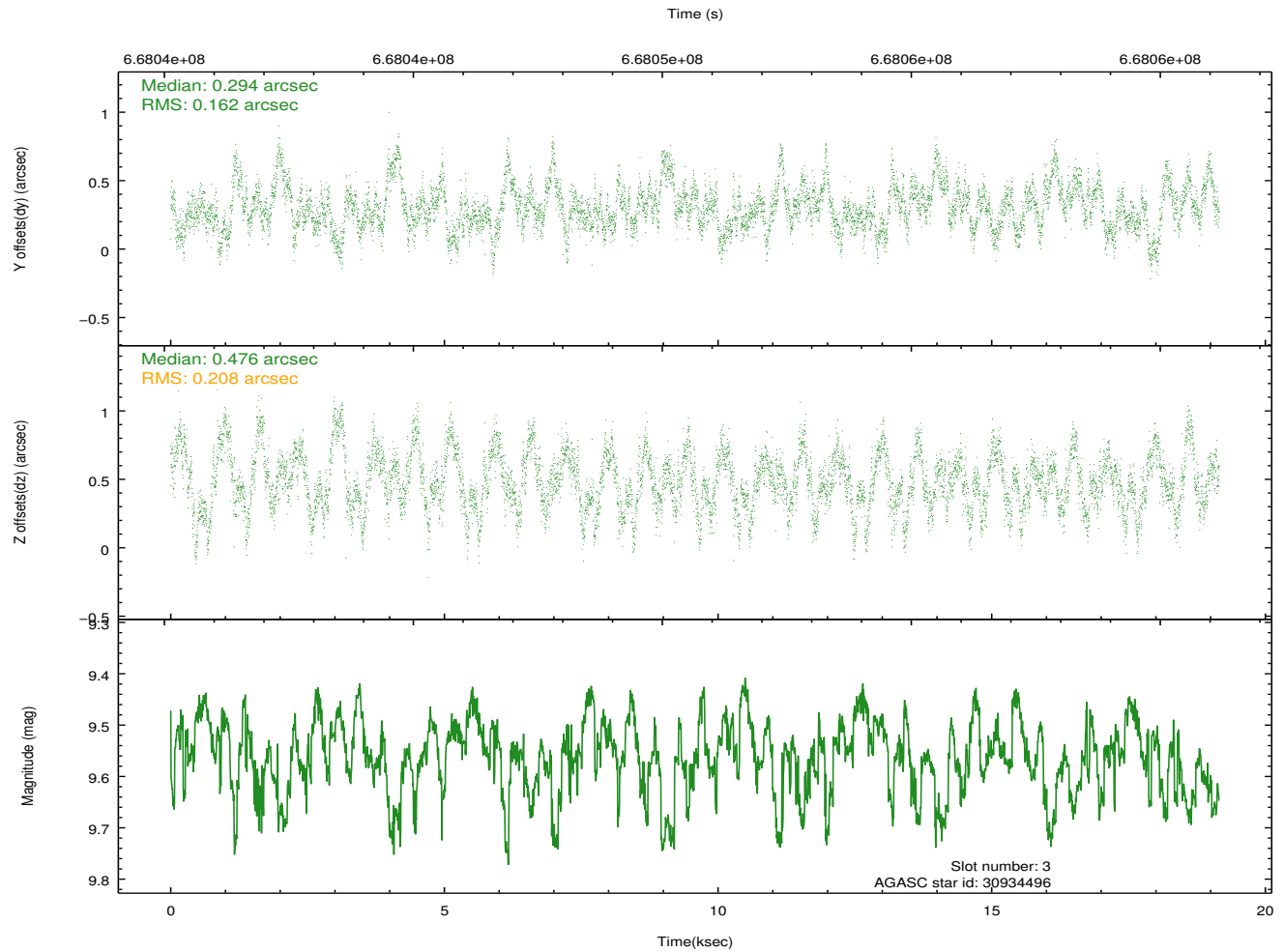
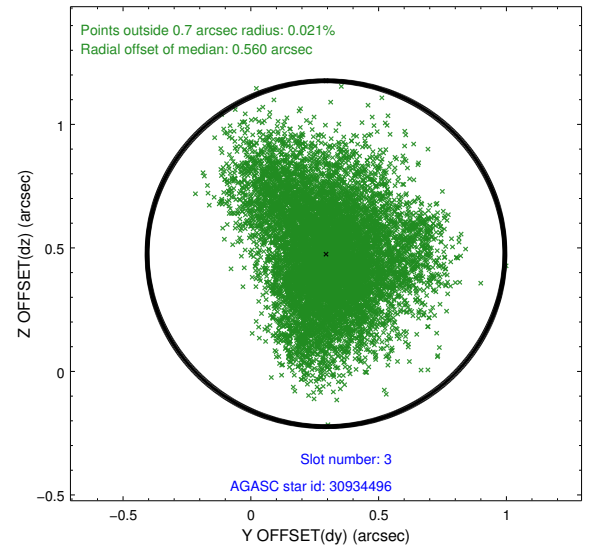
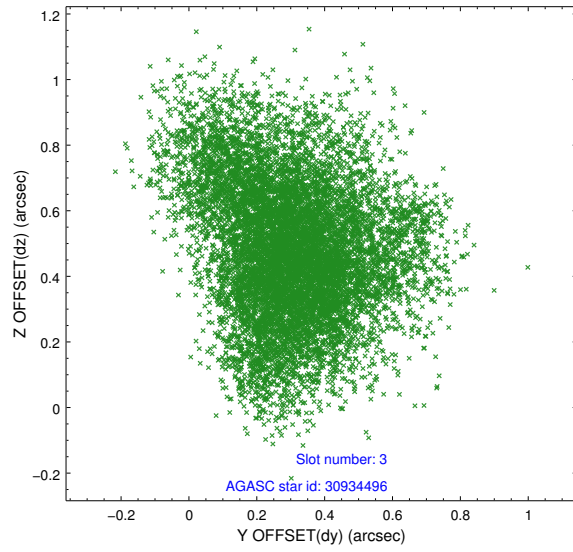


Slot Statistics

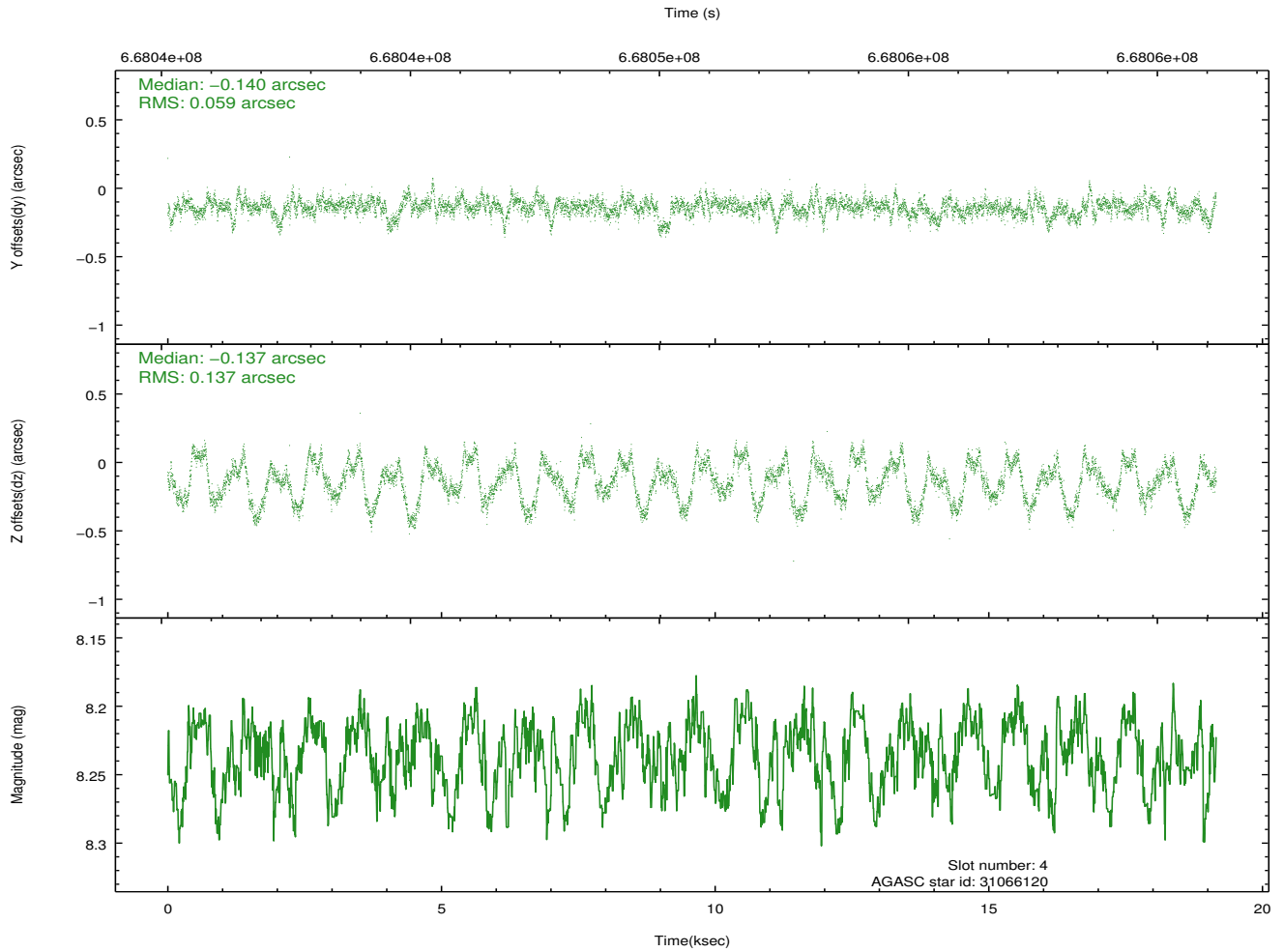
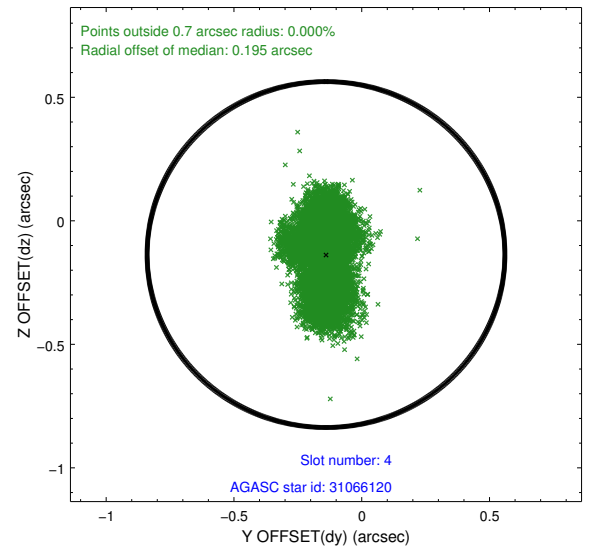
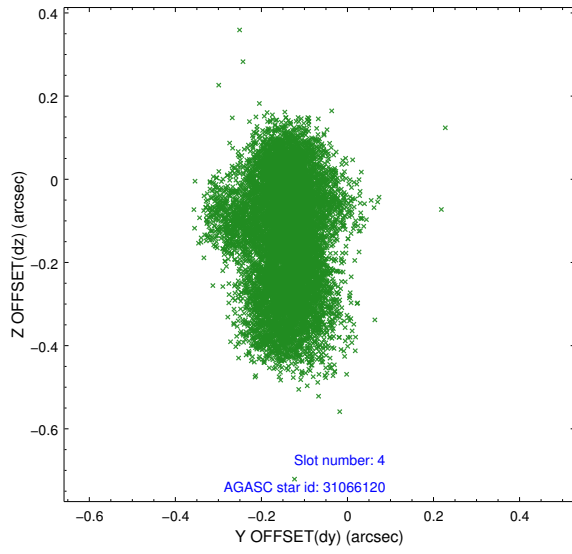
ot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.13	4673	1.000	-0.338	-0.232	0.011	0.020	0.000000	0.000000	-768.88	-1741
1	FID		ACIS-S-4	7.25	4673	1.000	0.826	0.225	0.014	0.021	0.000000	0.000000	2145.39	167
2	FID		ACIS-S-5	7.22	4672	1.000	-0.517	0.015	0.018	0.029	0.000000	0.000000	-1821.72	161
3	GUIDE	used	30934496	9.56	9319	1.000	0.294	0.476	0.285	0.456	146.876456	0.246962	195.53	-1568
4	GUIDE	used	31066120	8.24	9339	1.000	-0.140	-0.137	0.163	0.255	147.834053	0.310195	1217.82	1731
5	GUIDE	used	31066728	9.44	9277	1.000	0.076	0.117	0.212	0.352	147.739618	0.806430	-571.62	2054
6	GUIDE	used	31077712	7.59	9345	1.000	0.063	-0.102	0.118	0.187	147.554552	0.104470	1548.14	526
7	GUIDE	used	31079088	6.28	9343	1.000	-0.294	-0.368	0.132	0.214	148.049930	0.075615	2284.96	2153

2.4 Star Slots

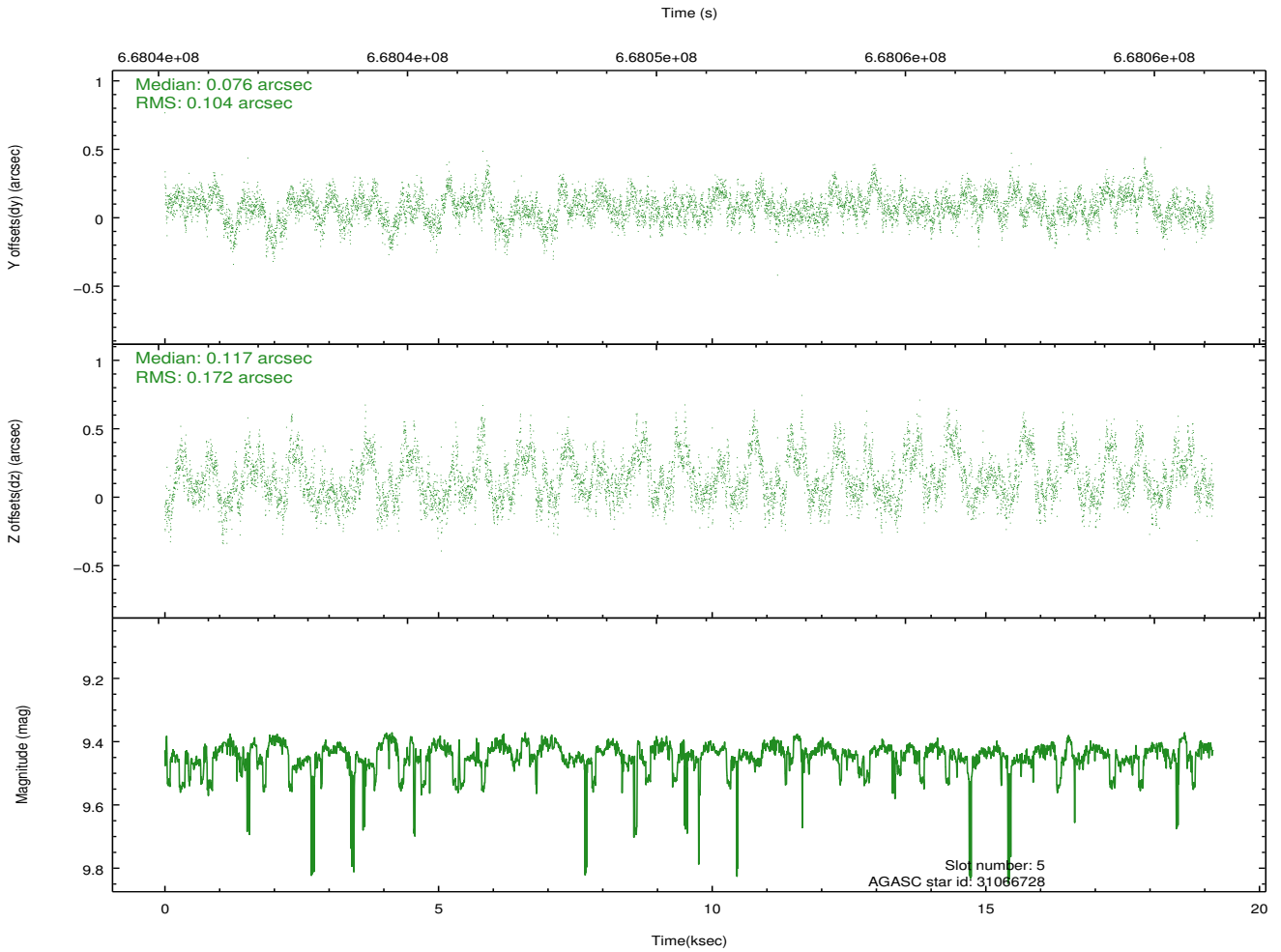
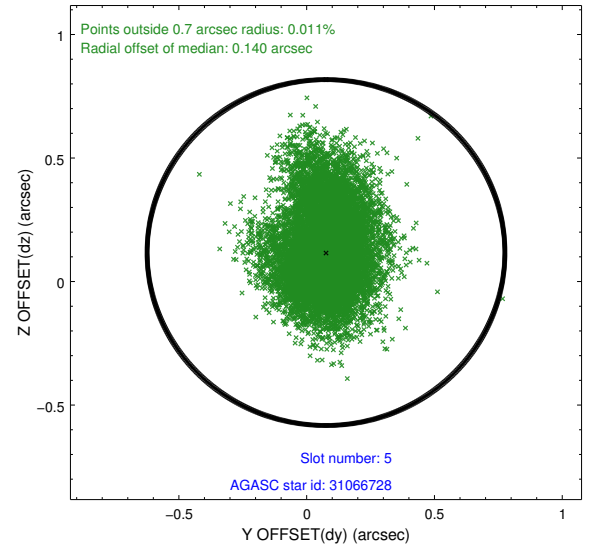
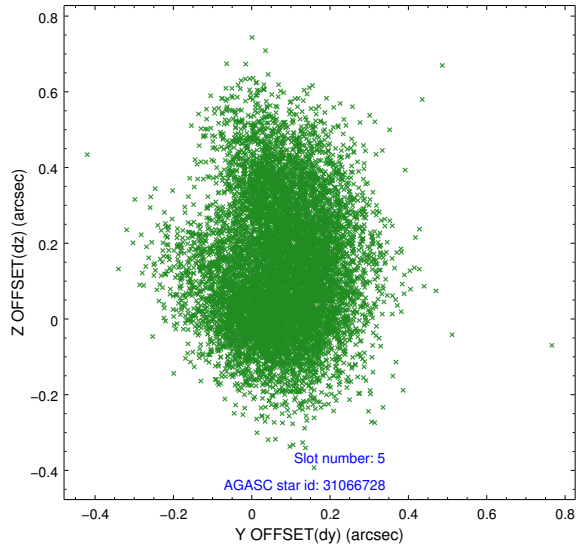
2.4.1 Slot 3



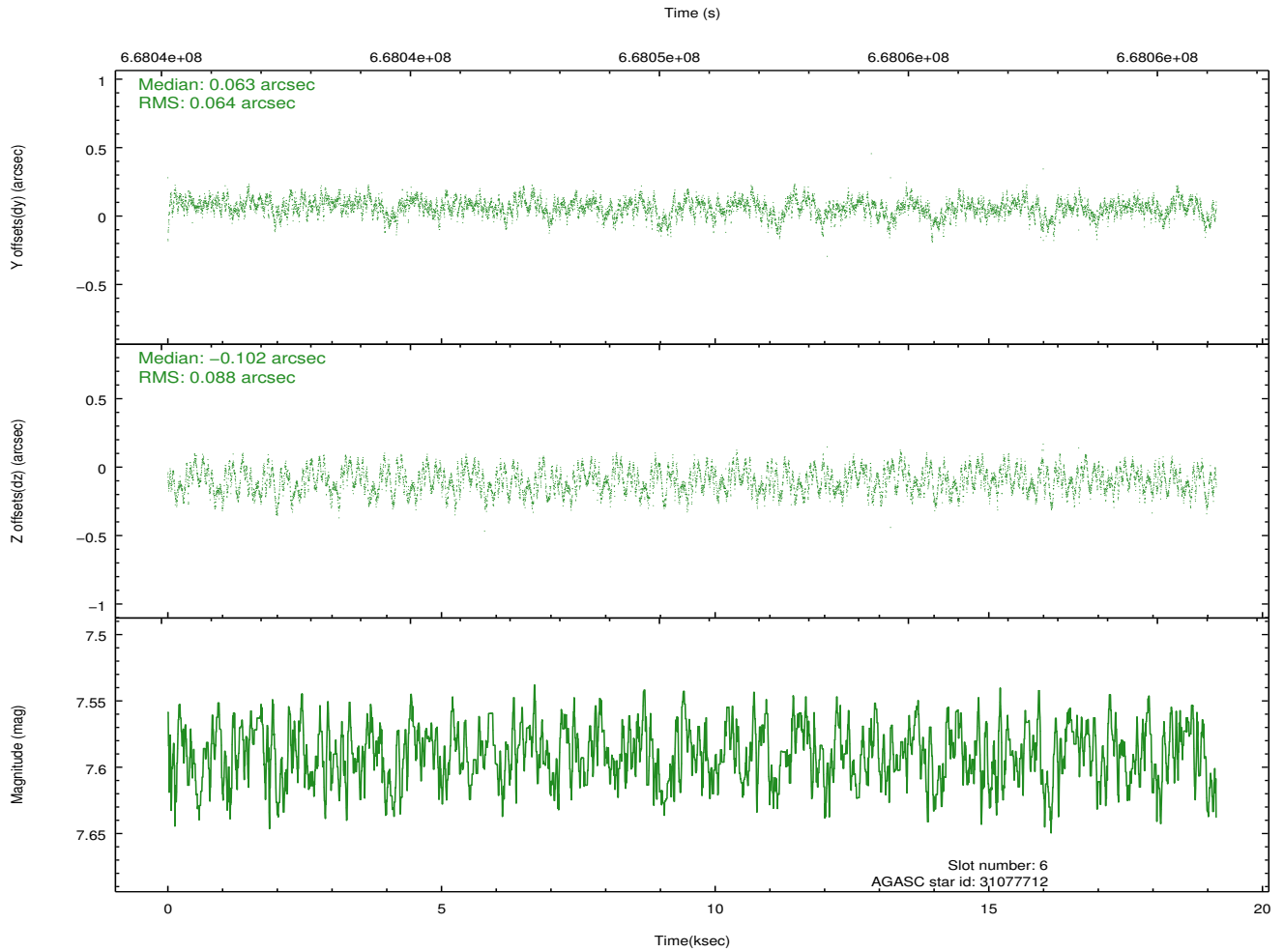
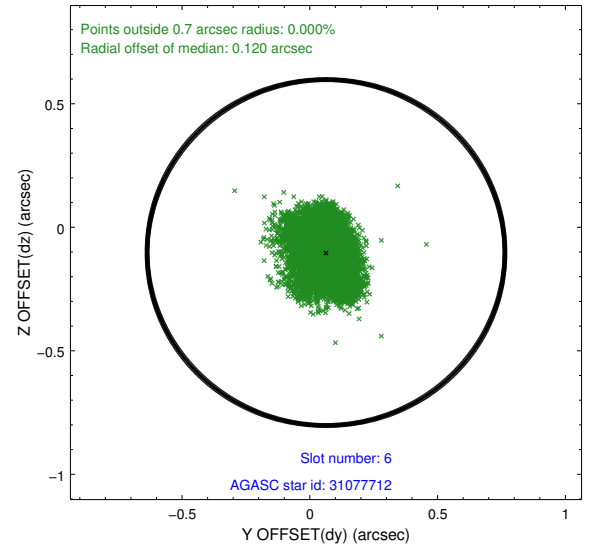
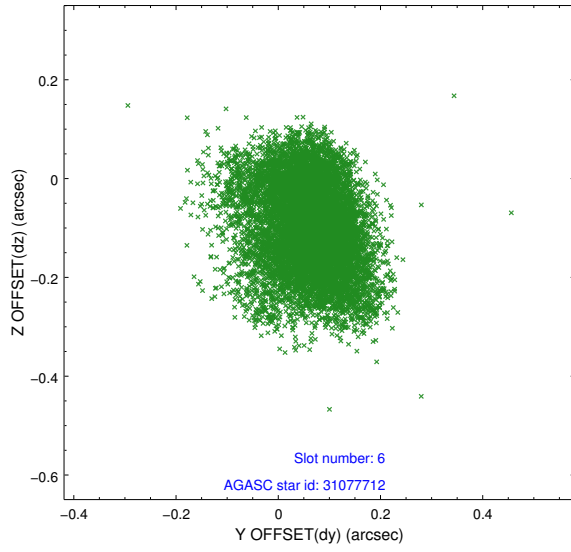
2.4.2 Slot 4



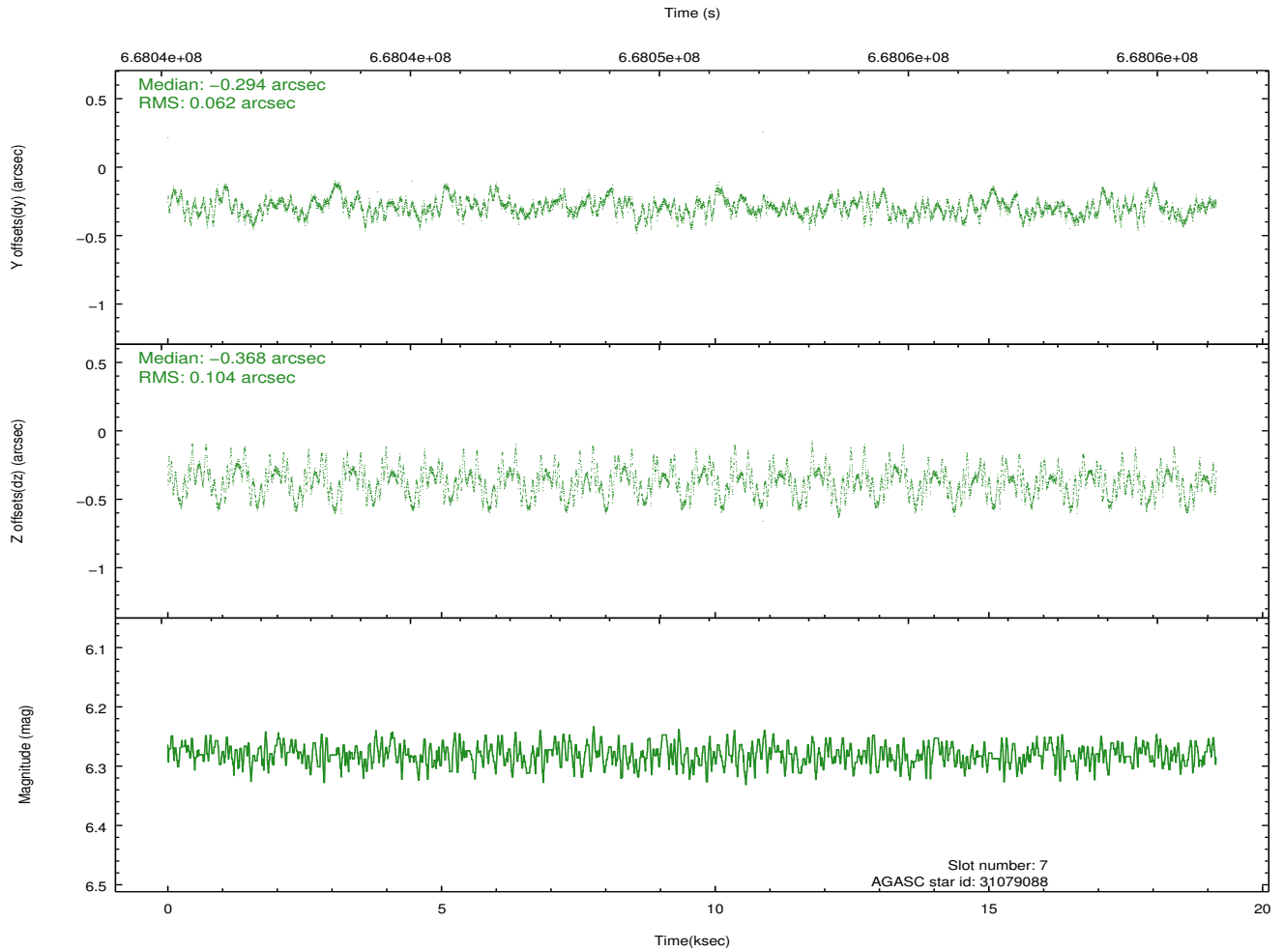
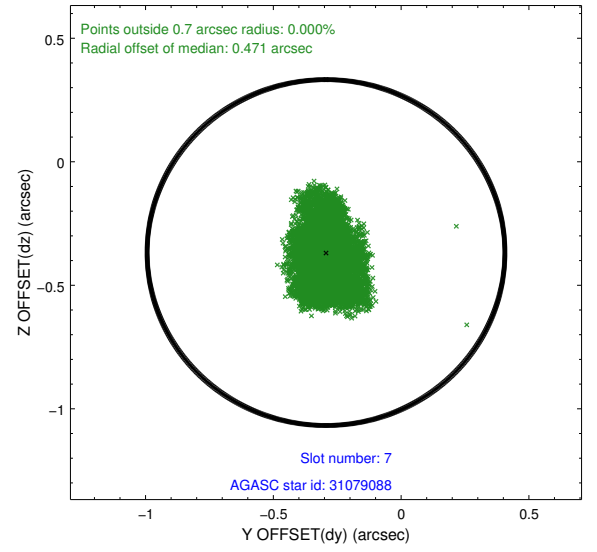
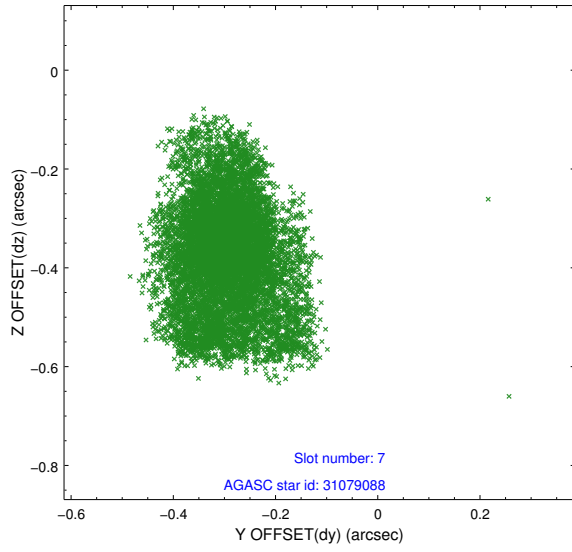
2.4.3 Slot 5



2.4.4 Slot 6

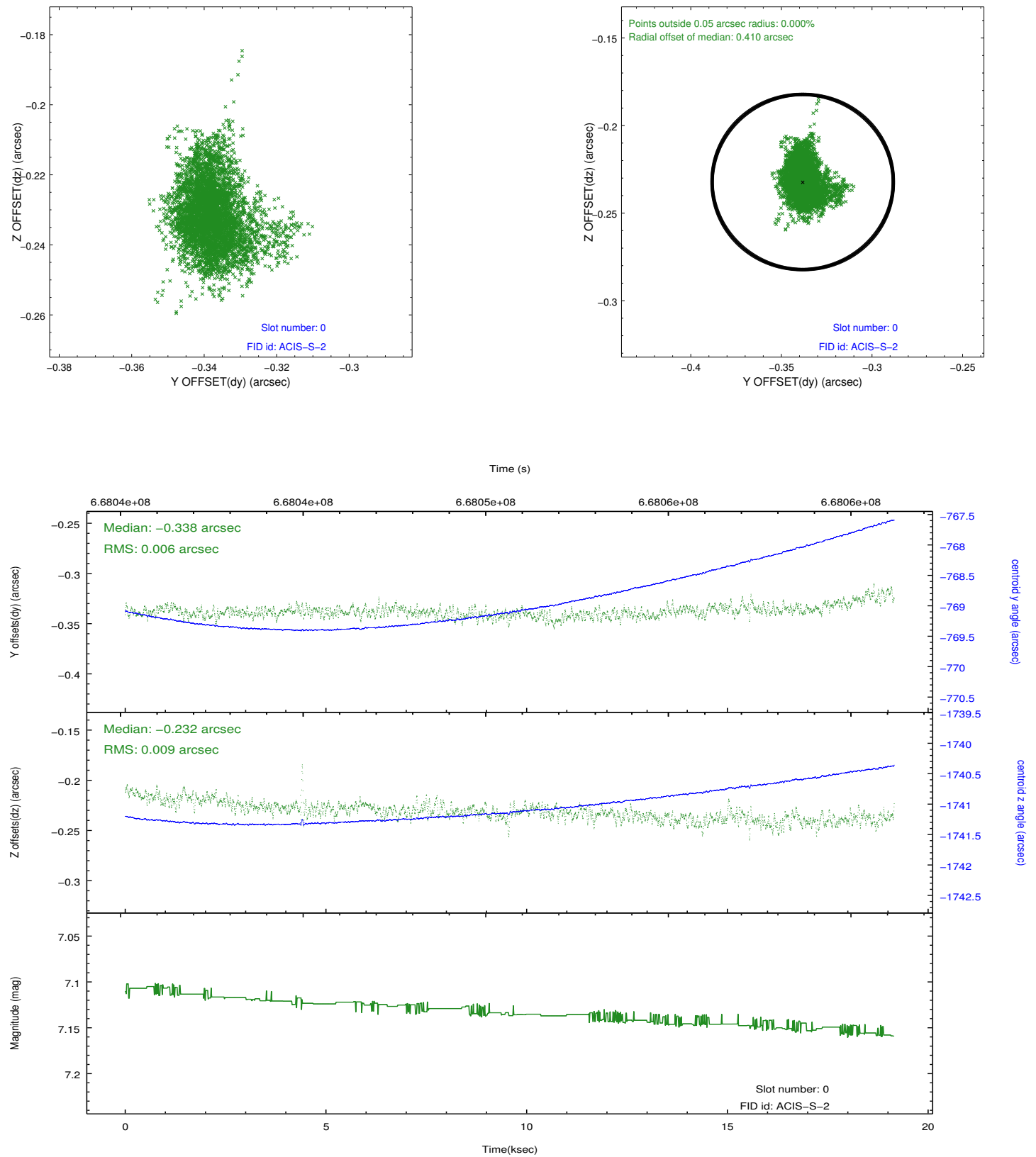


2.4.5 Slot 7

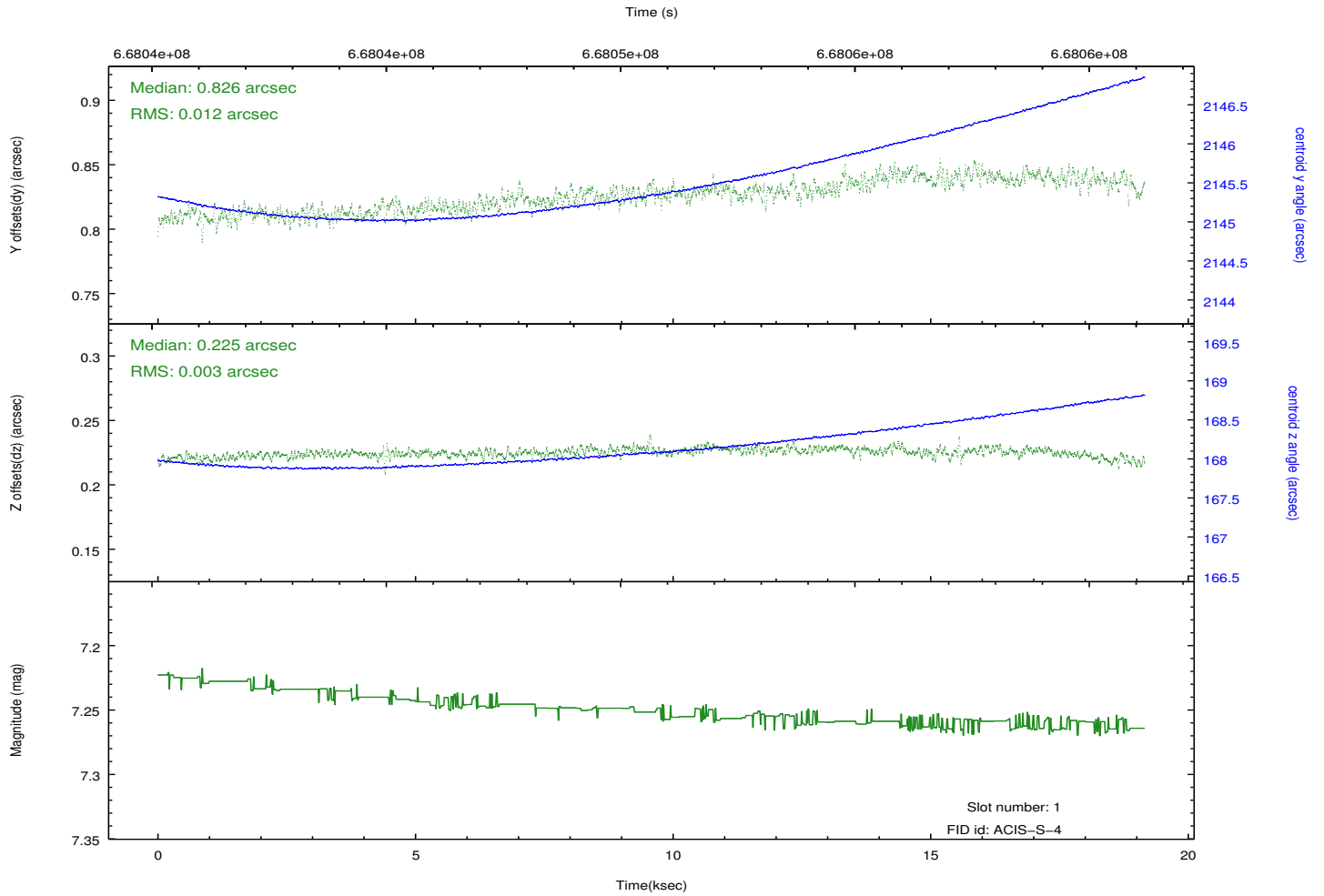
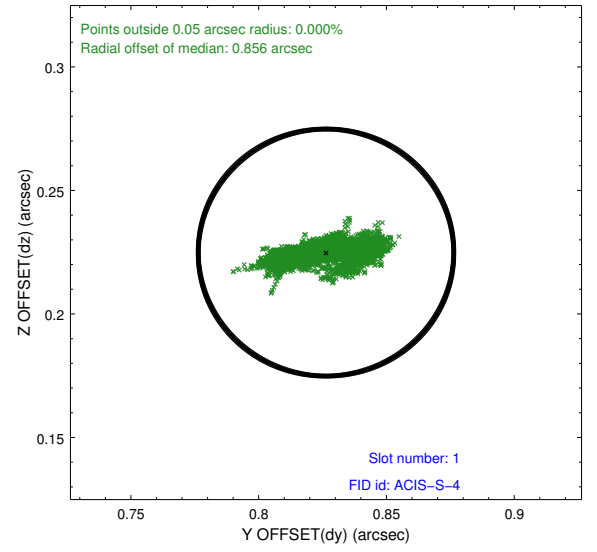
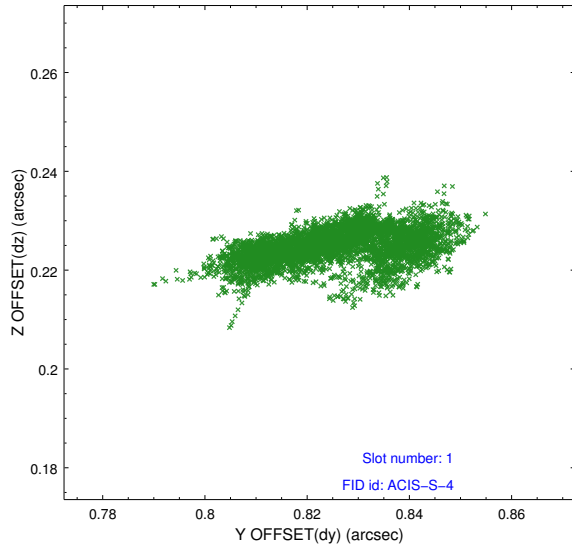


2.5 FID Slots

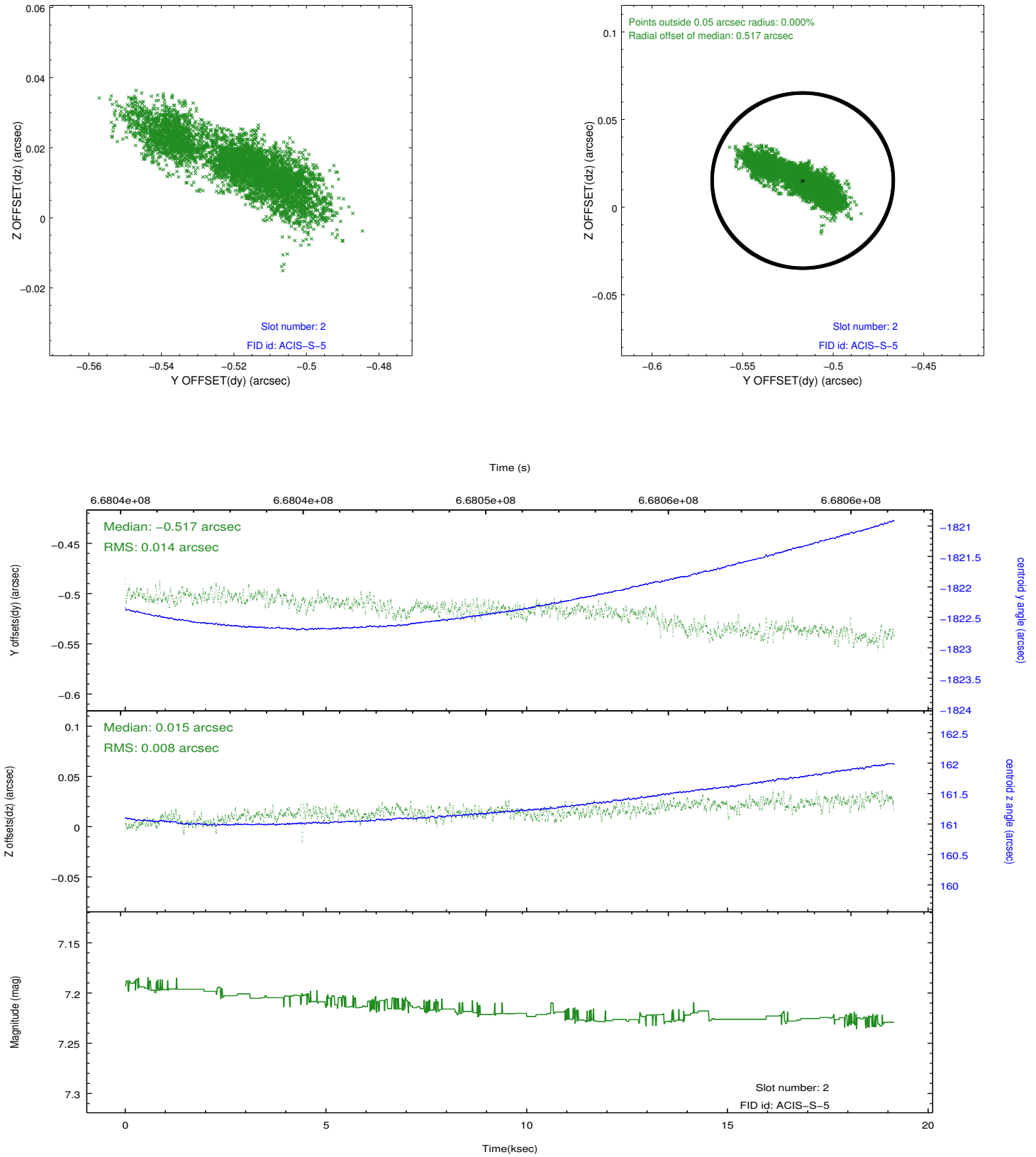
2.5.1 Slot 0



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)	2019.03.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.11859916544

A.2 Comments