

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20891 - L2 Version 1
Chandra X-Ray Center

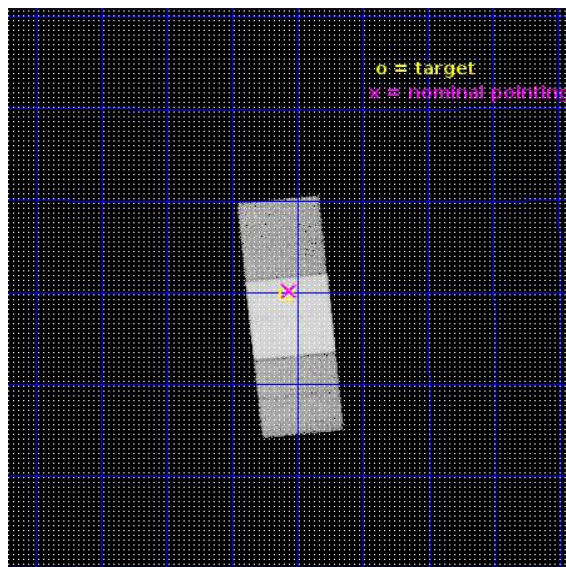
L2 Processing Date : Dec 22 2017

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1 Front

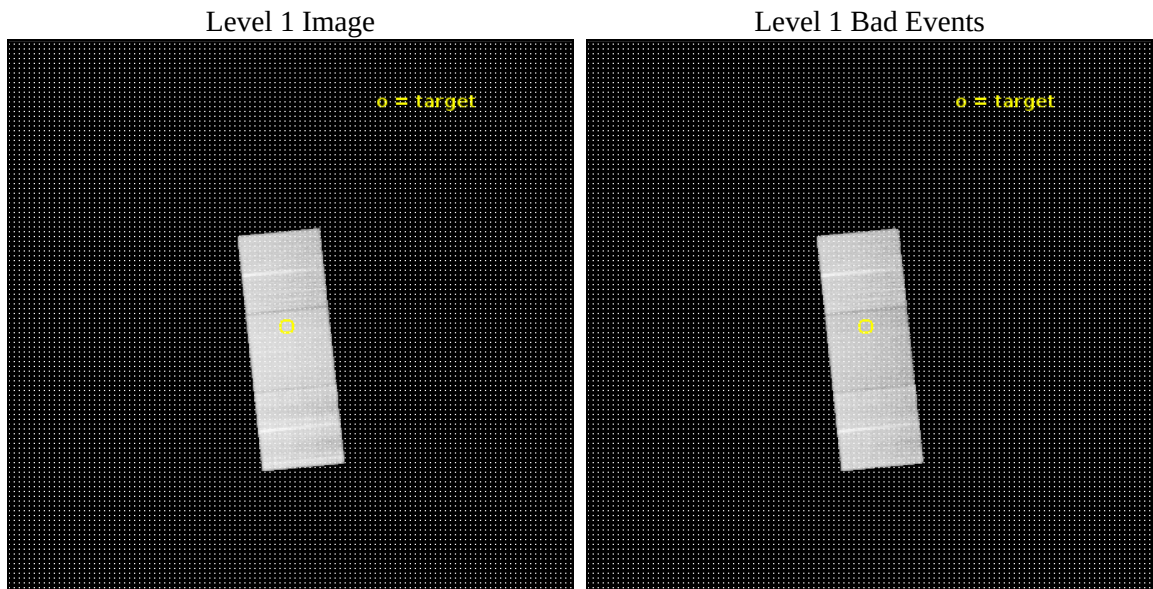
seq_num	703344	Sequence number
obs_id	20891	Observation id
title	The interactions of a `switching off' radio galaxy at crucial radio power	Proposal title
observer	Diana Worrall	Principal investigator
object	3C 192	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	121.395833	Observer's specified target RA [deg]
dec_targ	24.164	Observer's specified target Dec [deg]
ra_nom	121.39079572463	Nominal RA [deg]
dec_nom	24.170079718085	Nominal Dec [deg]
roll_nom	84.158685362555	Nominal Roll [deg]
revision	1	Processing version of data
ontime	35755.362456083	Sum of GTIs [s]
livetime	35288.19232288	Livetime [s]
ontime6	35755.32141614	Sum of GTIs [s]
ontime7	35755.362456083	Sum of GTIs [s]
ontime8	35752.139325857	Sum of GTIs [s]
l2events	198239	Number of level 2 events



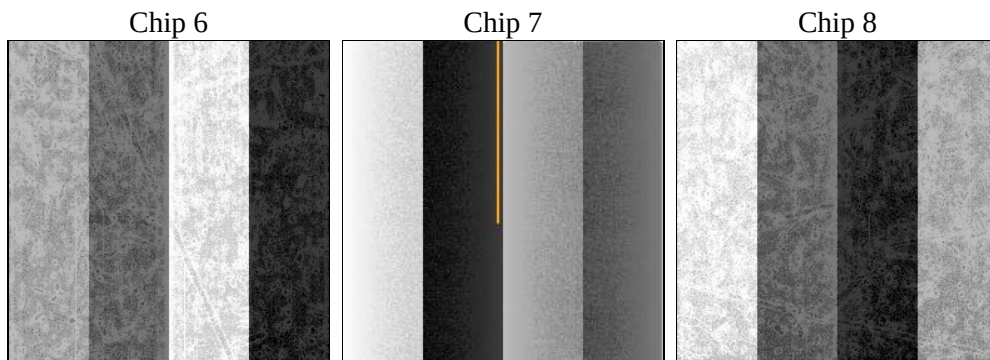
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	35644.132000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	35755.362456083	Sum of GTIs [s]
caldsver	4.7.7	 	ontime6	35755.32141614	Sum of GTIs [s]
date	2017-12-22T23:31:13	Date and time of file creation	ontime7	35755.362456083	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	35752.139325857	Sum of GTIs [s]
			l1events	956228	Number of level 1 events

2.1.4 Events

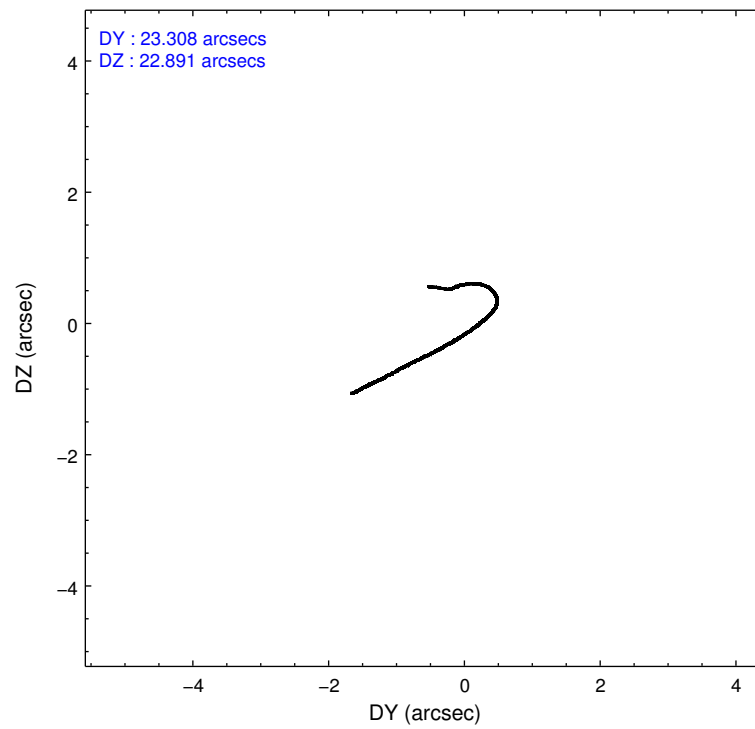
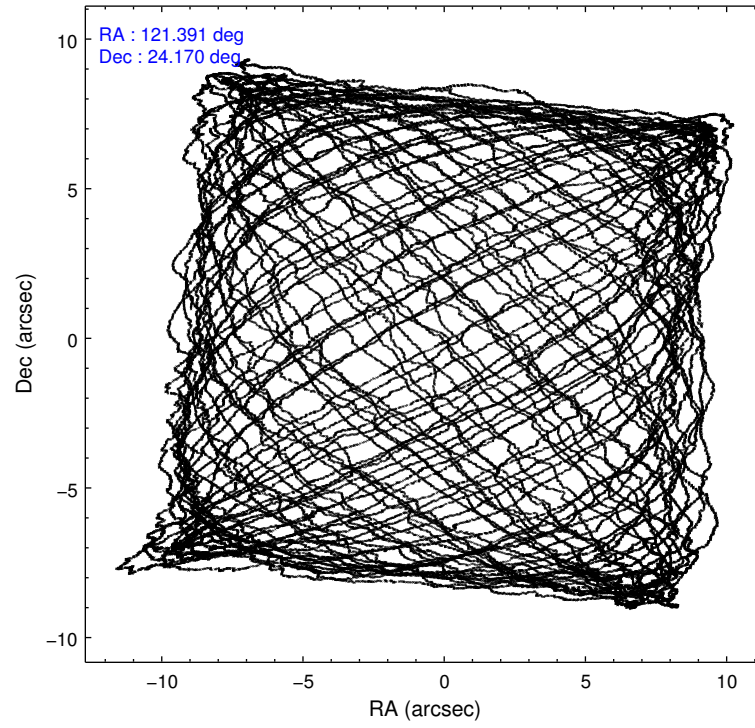
	ccd 6	ccd 7	ccd 8
level 1 events	267666	336489	352073
rejected events	238264	188884	257070
rejected %	89%	56%	73%

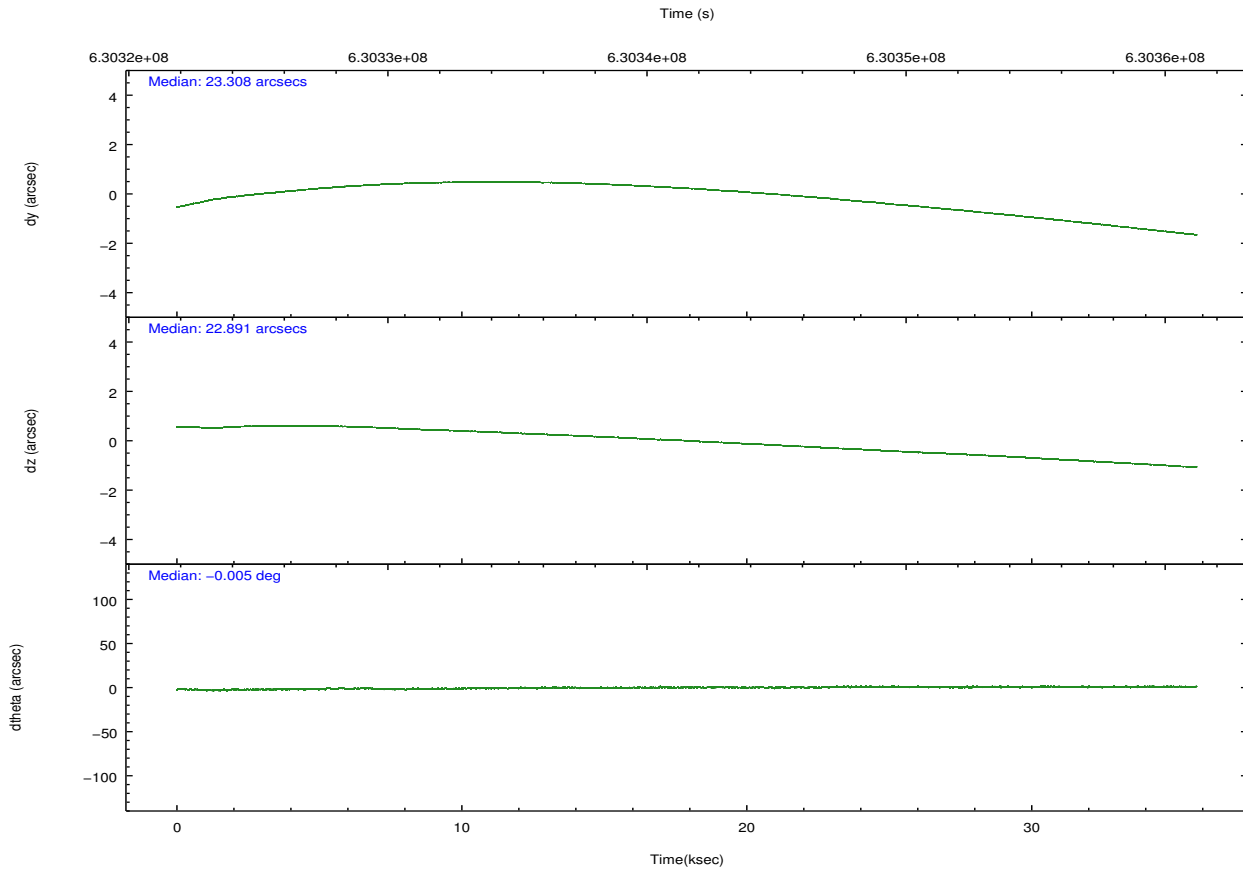
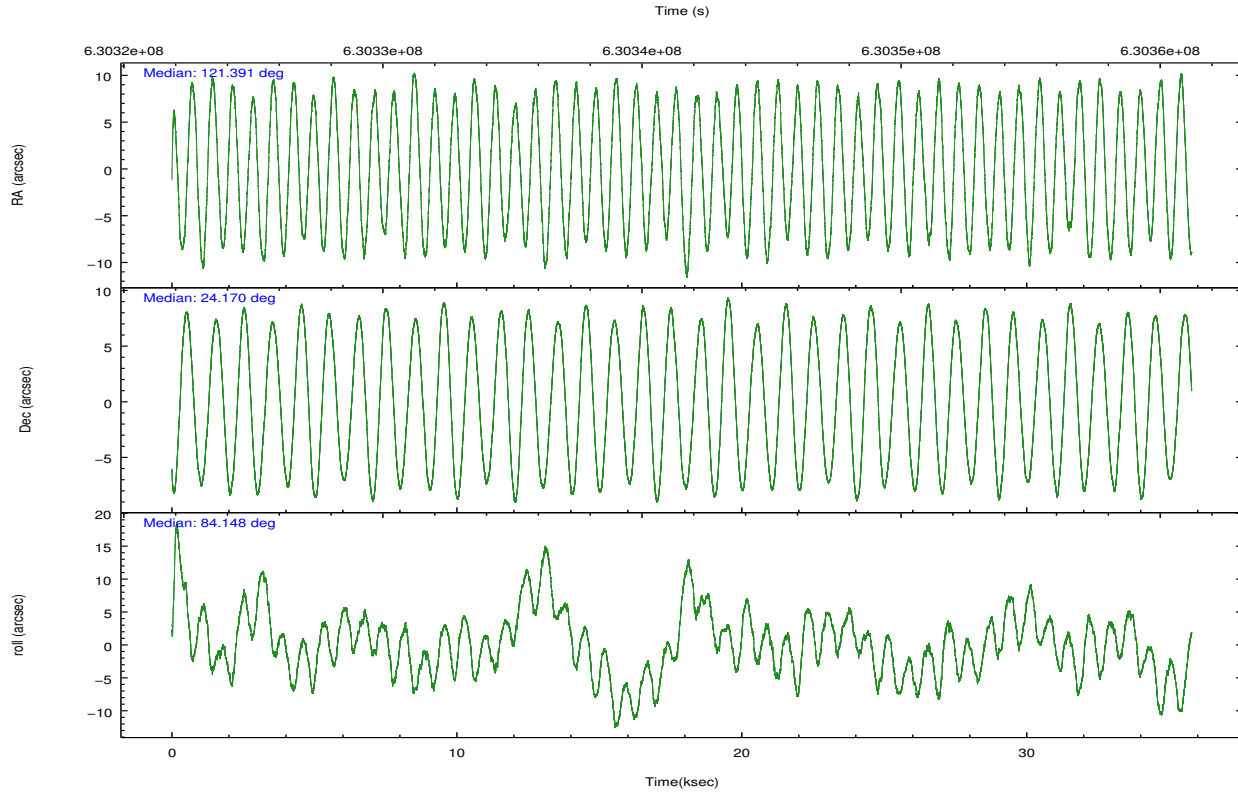
	ccd 6	ccd 7	ccd 8
grade 0 events	9635	12650	26398
	3%	3%	7%
grade 1 events	121	474	300
	0%	0%	0%
grade 2 events	6996	31005	23145
	2%	9%	6%
grade 3 events	2815	12085	9766
	1%	3%	2%
grade 4 events	2837	11569	9069
	1%	3%	2%
grade 5 events	11874	33389	18678
	4%	9%	5%
grade 6 events	7121	80328	26632
	2%	23%	7%
grade 7 events	226267	154989	238085
	84%	46%	67%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	121.403474	121.3907957246324	CCD I2 on	N	N
[deg] Pointing Dec	24.145175	24.17007971808454	CCD I3 on	O1	N
[deg] Pointing Roll	83.996877	84.15868536255459	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O2	Y
[s] Observation start time (MET)	630323805.184000	630322796.81578	CCD S5 on	N	N
Observation start date	2017-12-22T09:55:36	2017-12-22T09:39:56	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	630359449.184000	630360081.19297	On-chip summing requested	N	N
Observation end date	2017-12-22T19:49:40	2017-12-22T20:01:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



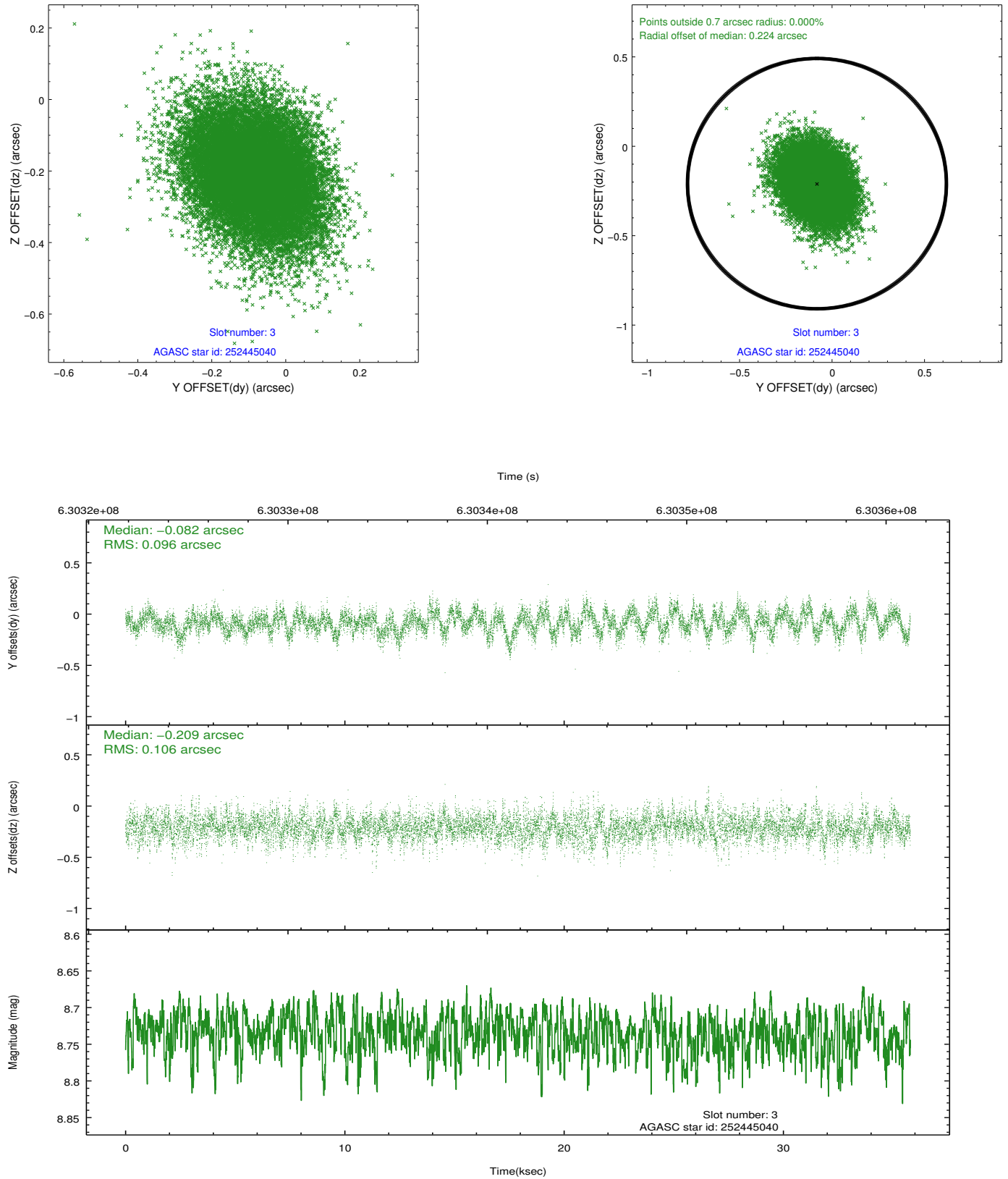


Slot Statistics

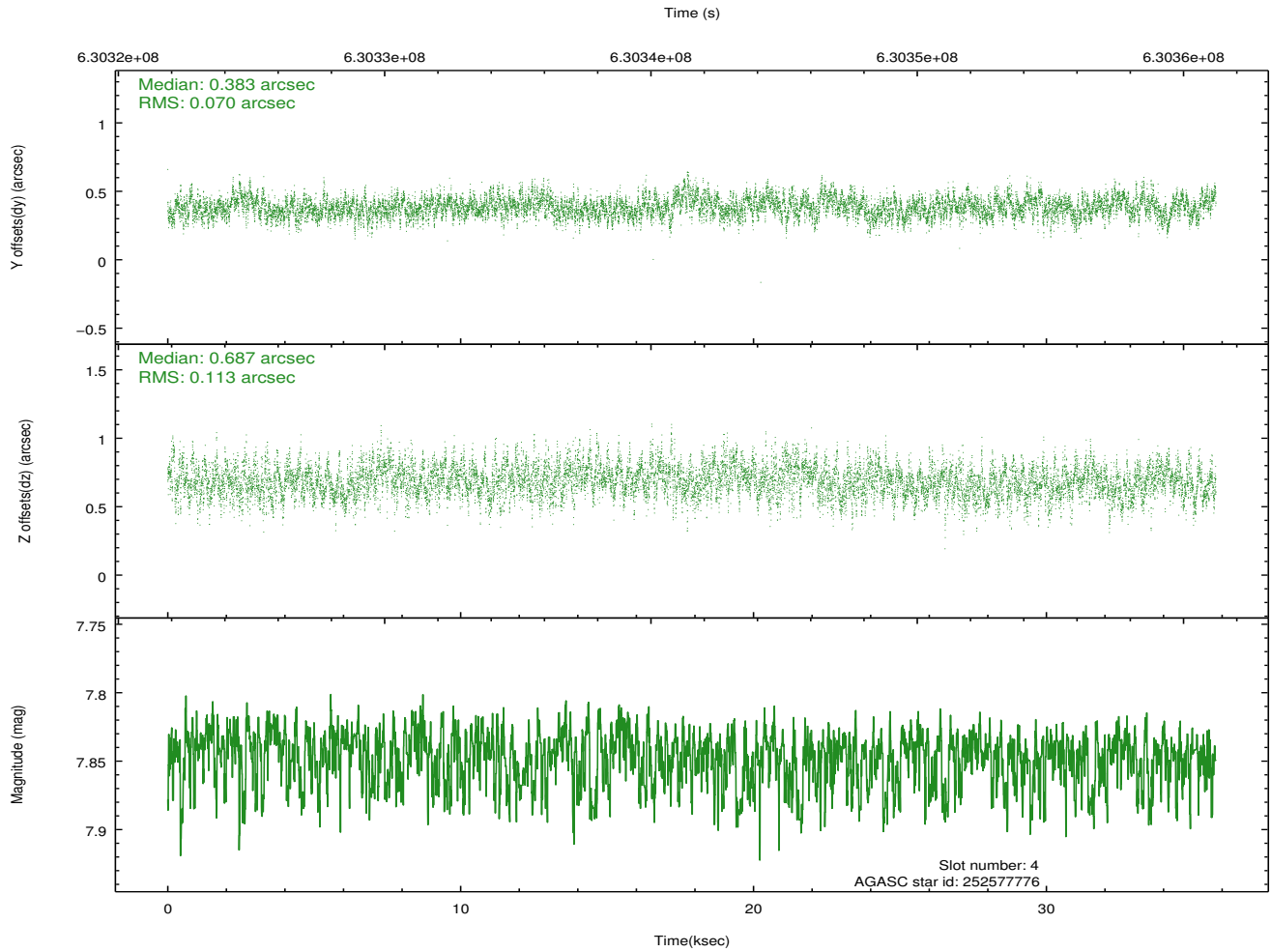
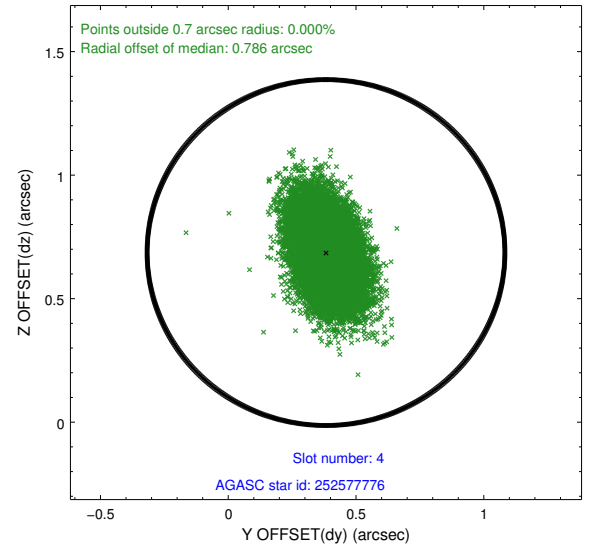
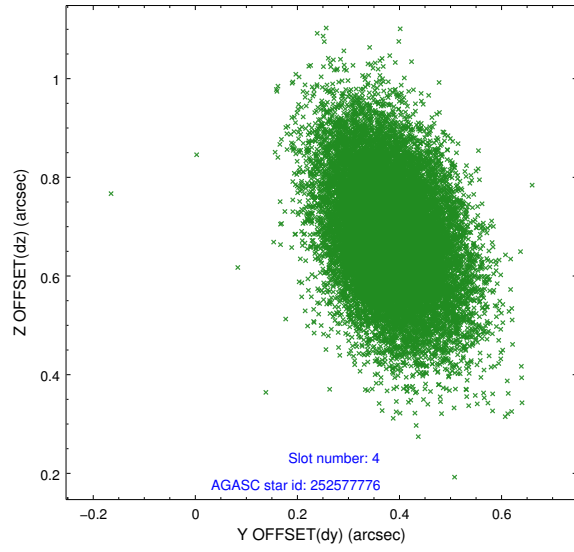
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.06	8729	-0.256	-0.163	0.022	0.029	0.000000	0.000000	-776.55	-1744.58
1	FID		ACIS-S-4	7.15	8729	0.606	0.165	0.025	0.050	0.000000	0.000000	2137.55	164.22
2	FID		ACIS-S-5	7.17	8728	-0.380	0.002	0.020	0.036	0.000000	0.000000	-1829.49	157.72
3	GUIDE	used	252445040	8.73	17444	-0.082	-0.209	0.151	0.248	120.948183	24.372625	660.60	1570.44
4	GUIDE	used	252577776	7.85	17455	0.383	0.687	0.136	0.238	121.963441	24.018102	-258.11	-1878.48
5	GUIDE	used	252978608	6.88	17457	-0.169	-0.435	0.129	0.218	121.037358	24.508140	1175.45	1329.24
6	GUIDE	used	253108144	8.72	17442	-0.203	0.054	0.139	0.240	121.921909	24.738762	2306.13	-1461.66
7	GUIDE	used	253108456	8.81	17305	0.075	-0.102	0.205	0.345	122.025353	24.715177	2258.86	-1807.43

2.4 Star Slots

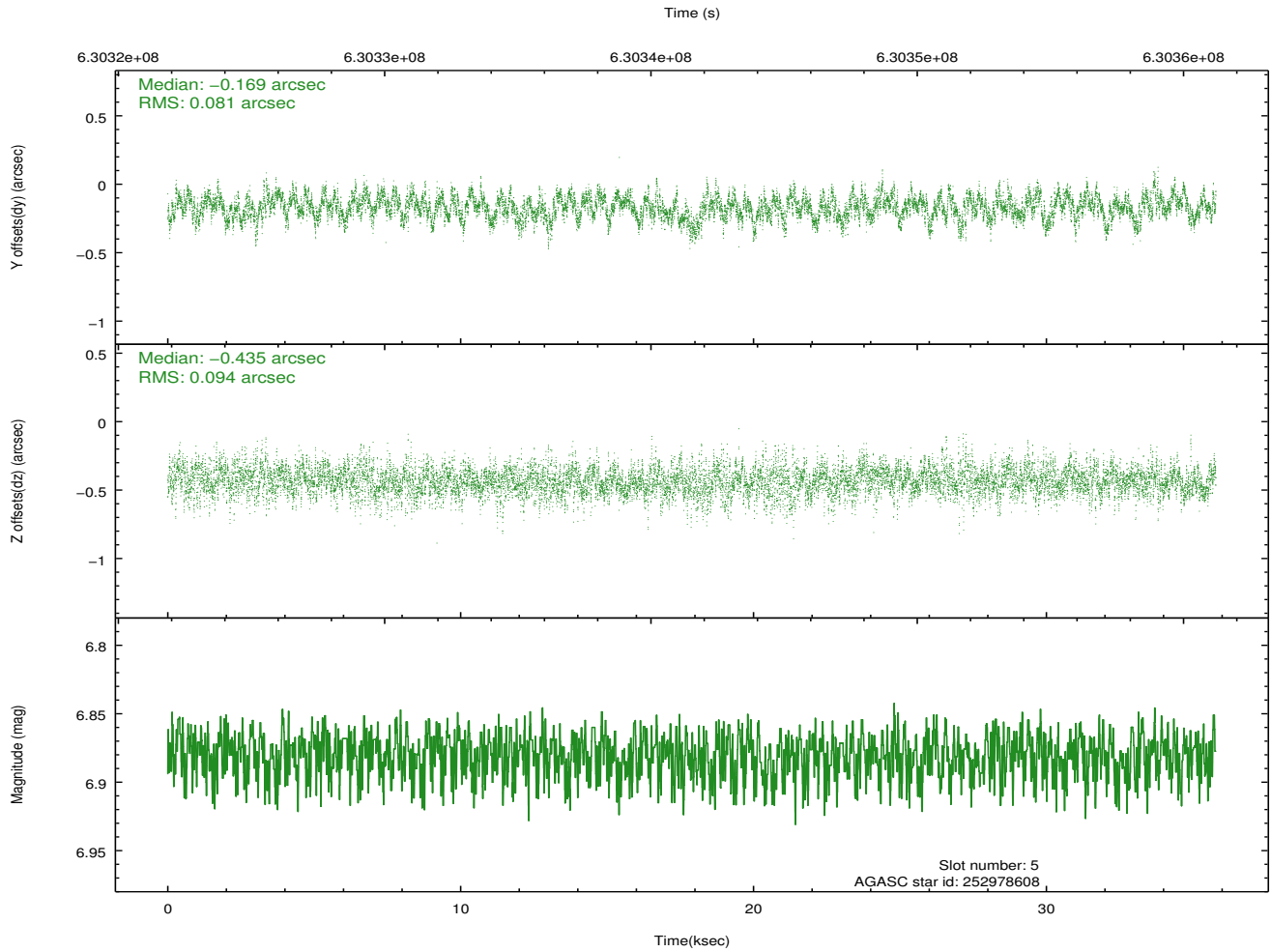
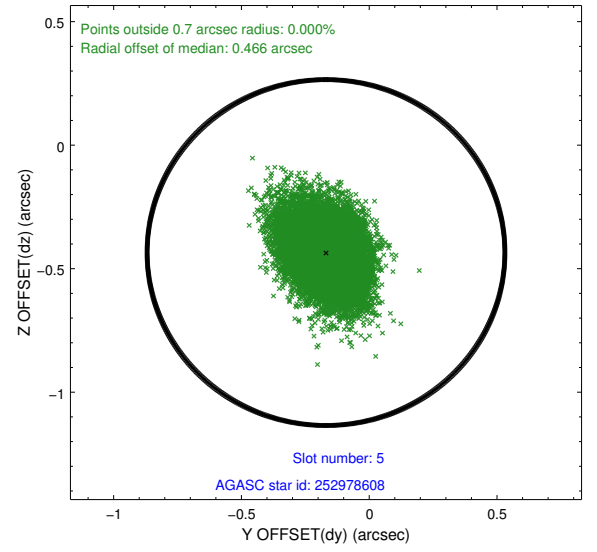
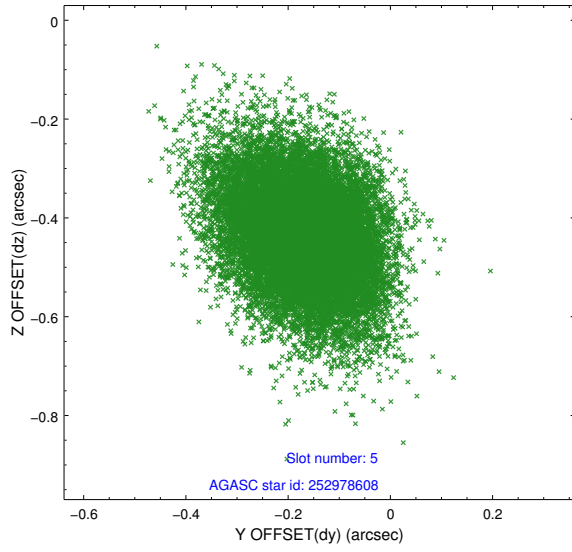
2.4.1 Slot 3



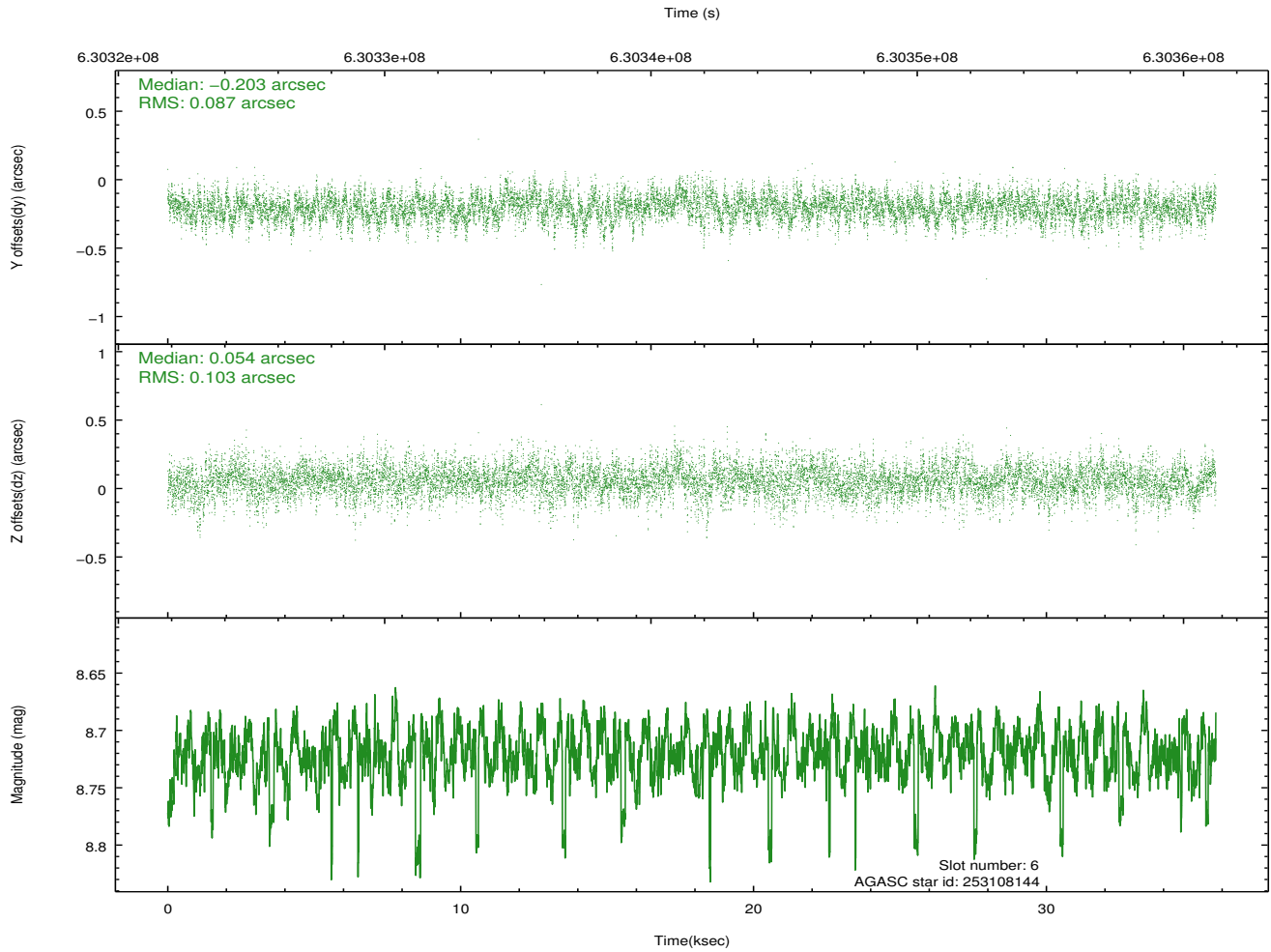
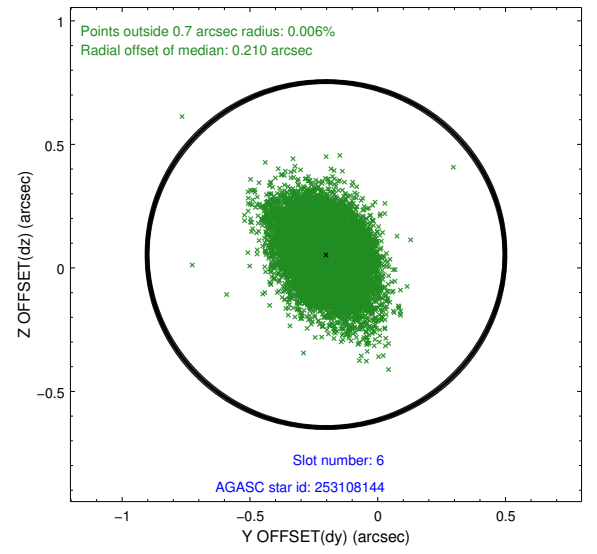
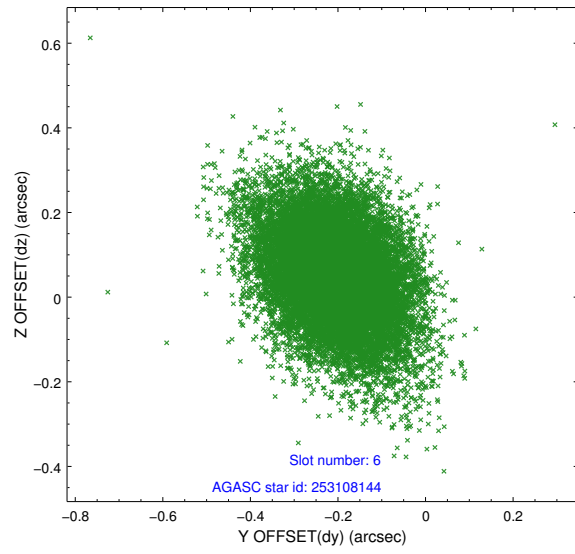
2.4.2 Slot 4



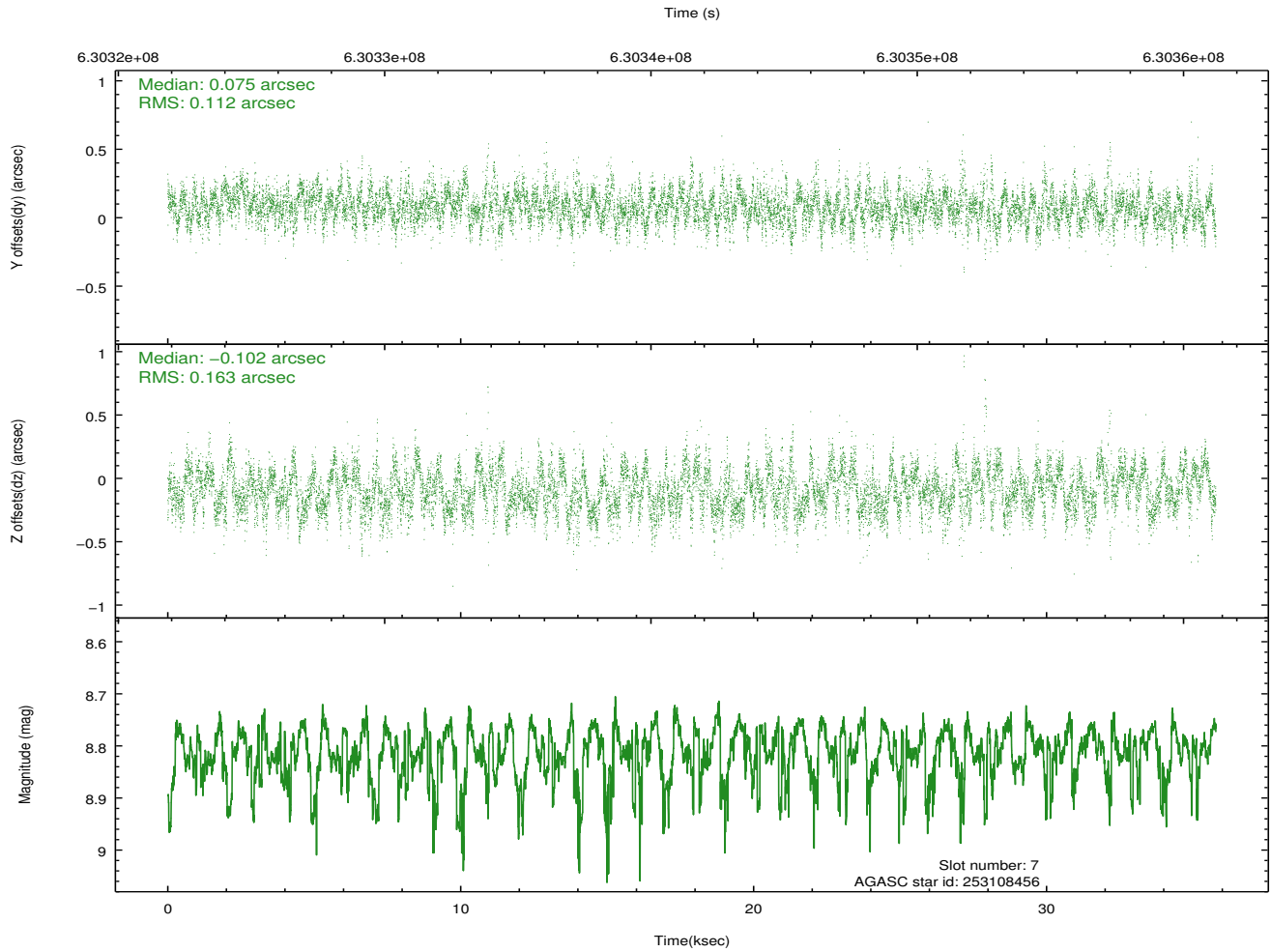
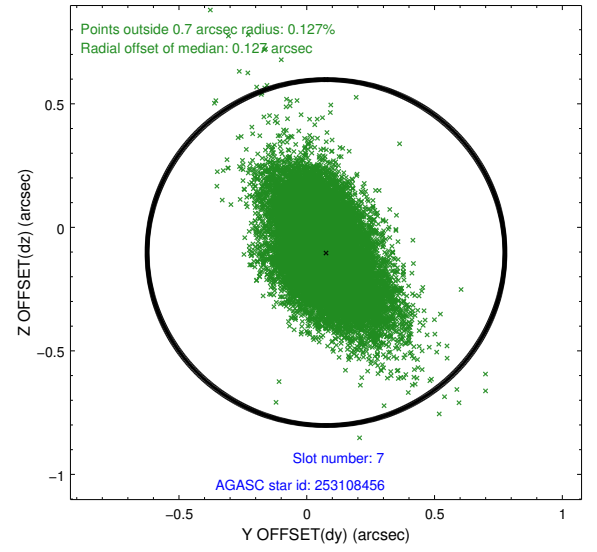
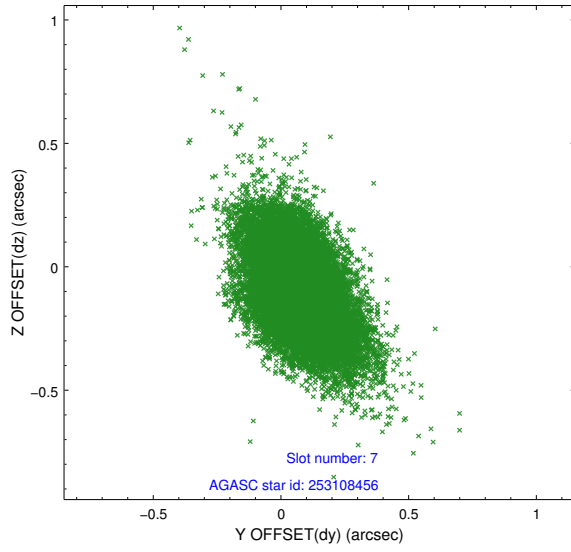
2.4.3 Slot 5



2.4.4 Slot 6

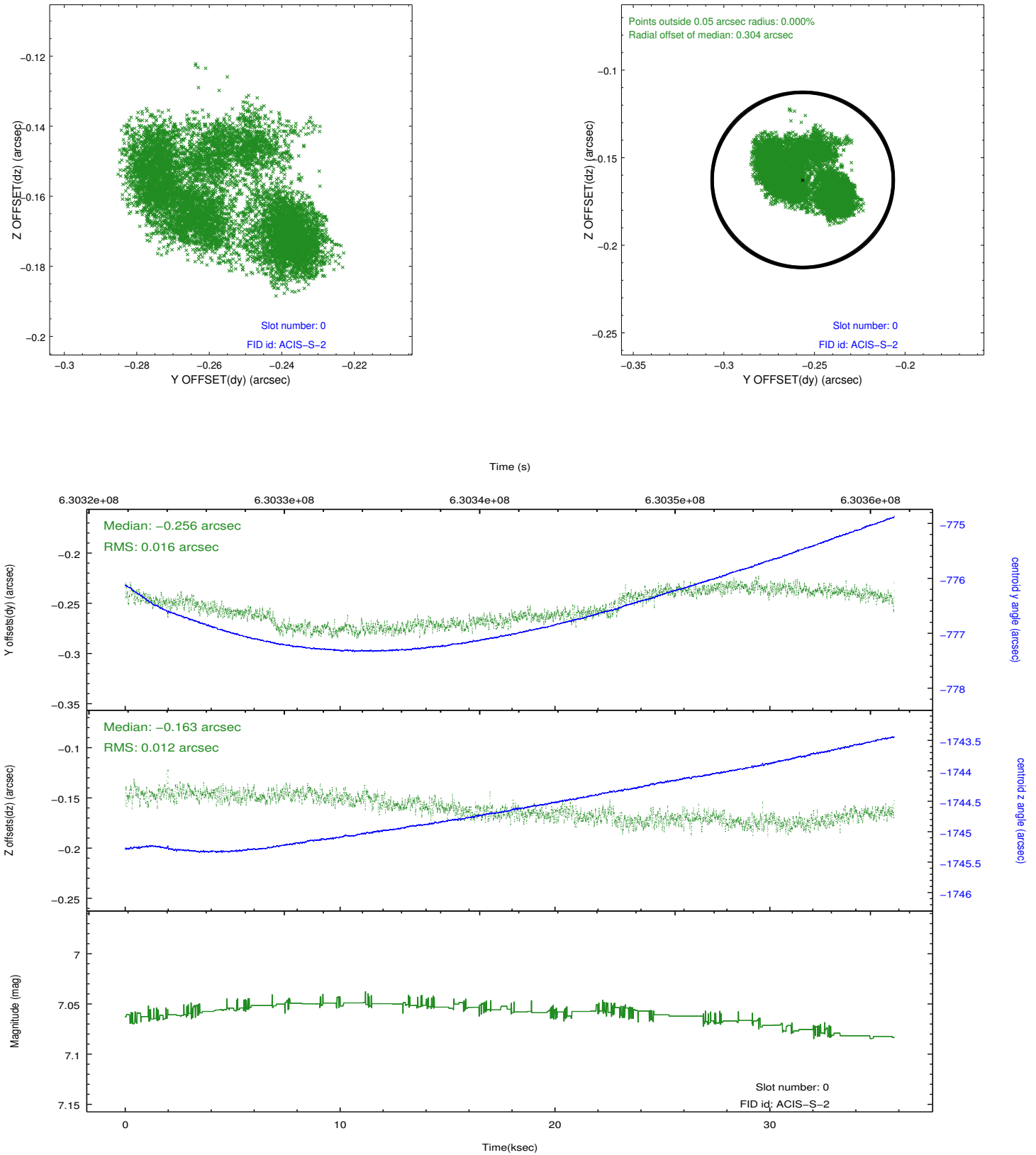


2.4.5 Slot 7

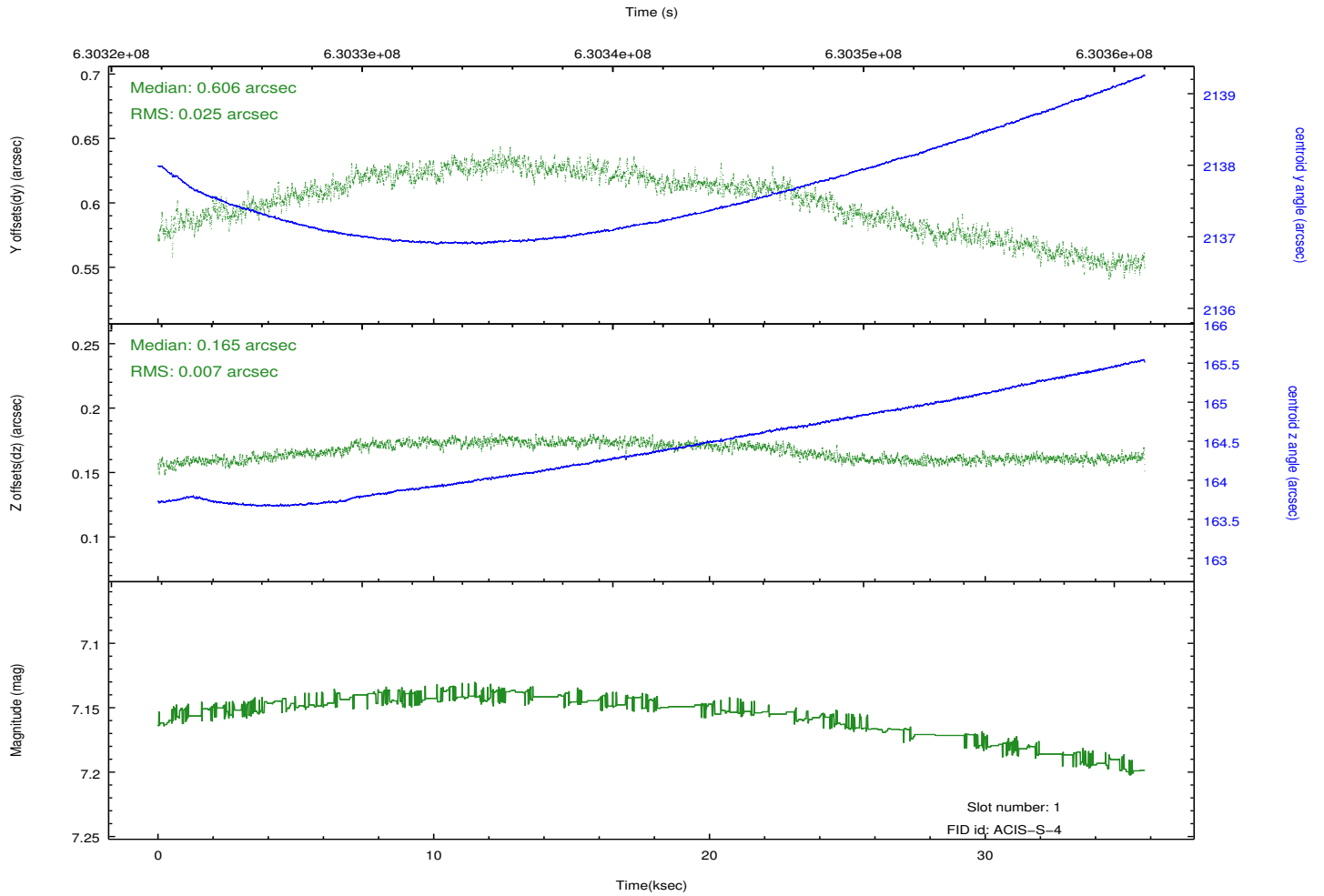
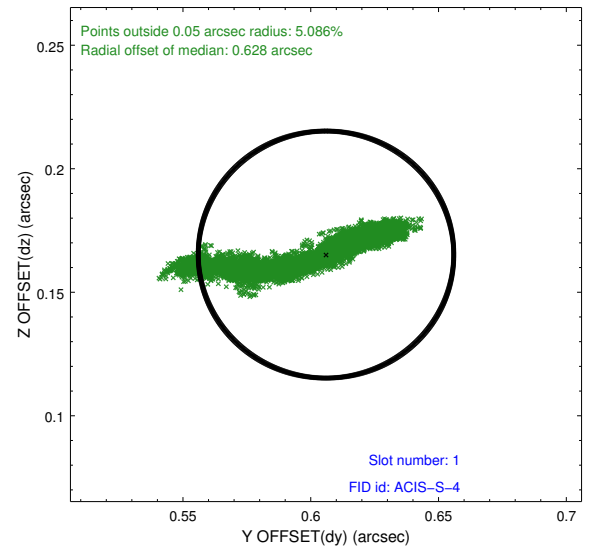
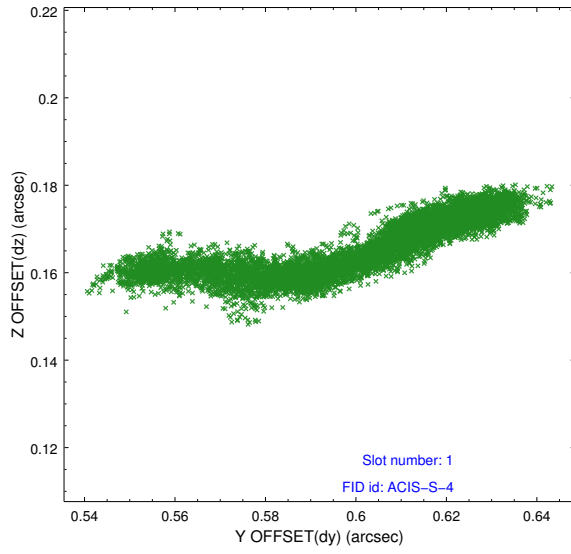


2.5 FID Slots

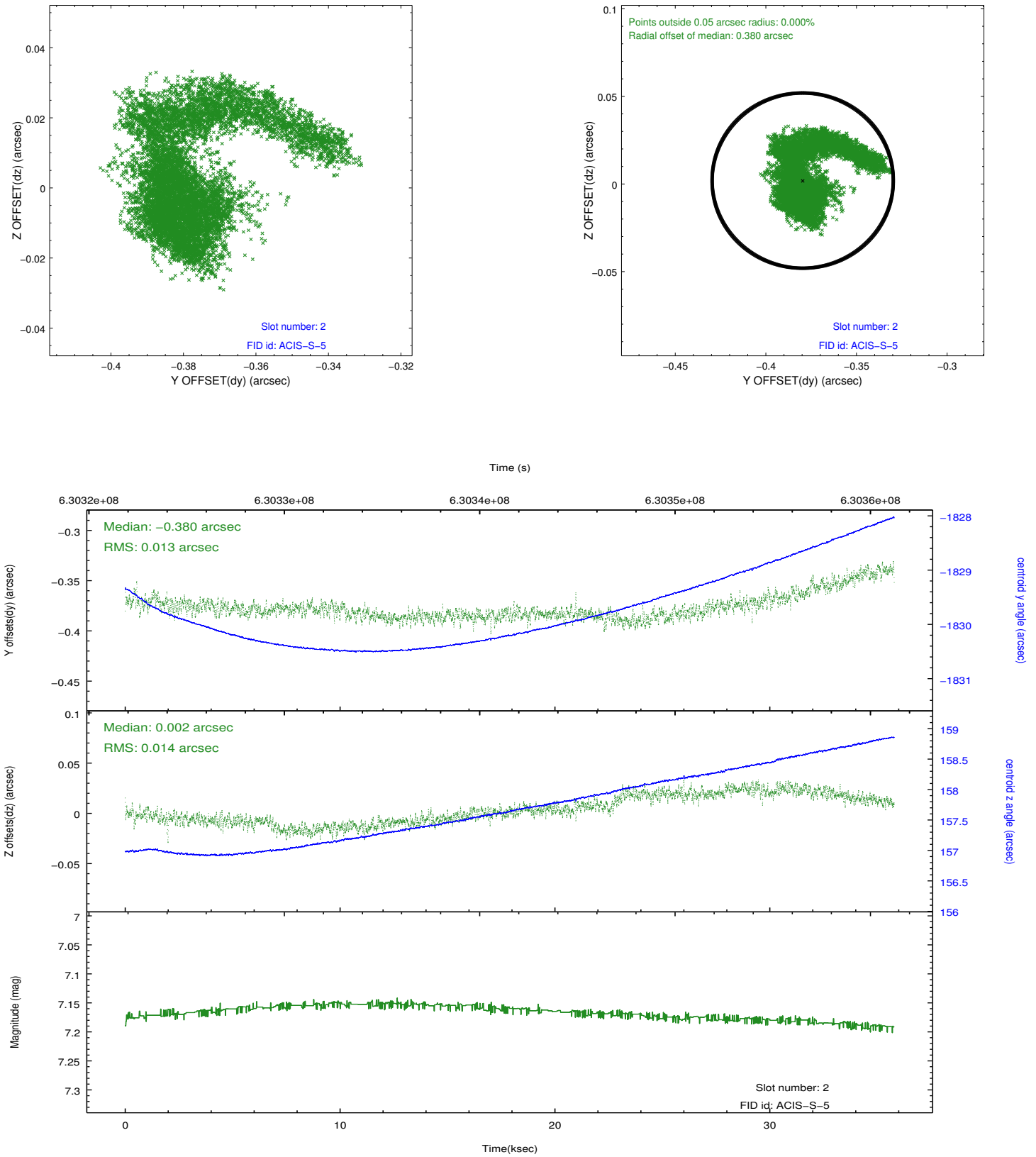
2.5.1 Slot 0



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)	2017.12.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.755362456083

A.2 Comments

Roll preference met. Optional chip I3 not included.