

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 18020 - L2 Version 1
Chandra X-Ray Center

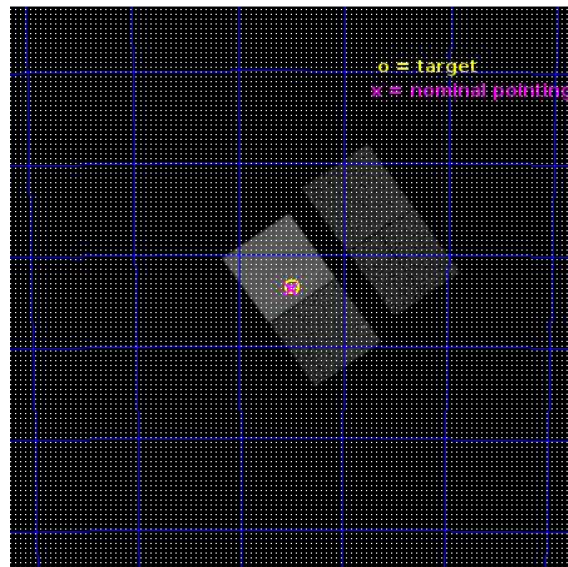
L2 Processing Date : Apr 18 2017

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

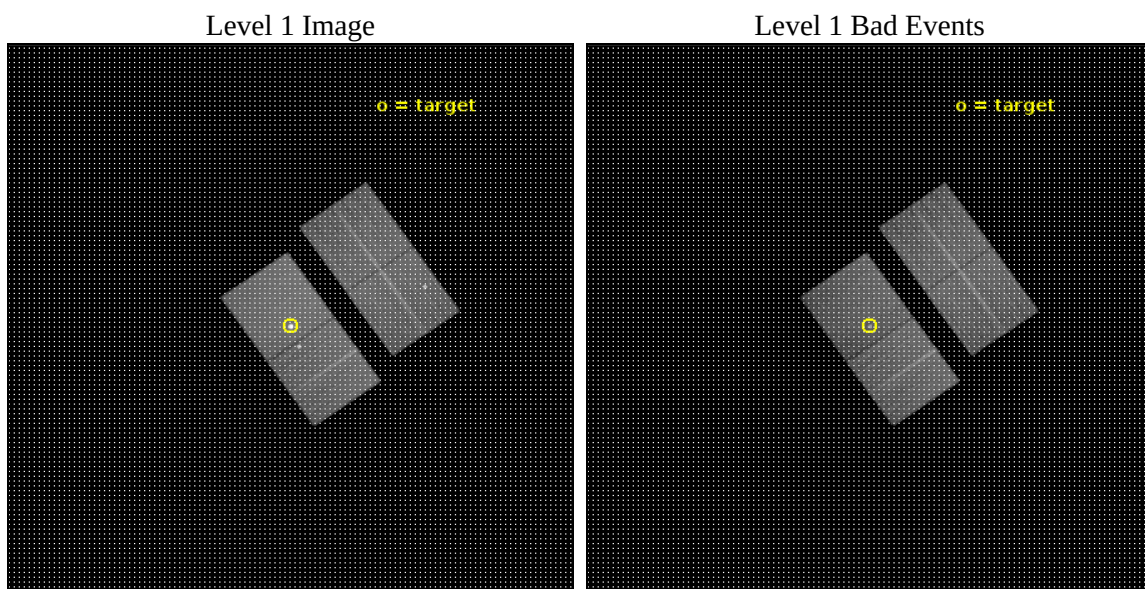
seq_num	502637	Sequence number
obs_id	18020	Observation id
title	N103B: A Type Ia Remnant with Circumstellar Interaction... Kepler's Older Cousin?	Proposal title
observer	Dr. Brian Williams	Principal investigator
object	SNR 0509-68.7	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	77.245833	Observer's specified target RA [deg]
dec_targ	-68.726111	Observer's specified target Dec [deg]
ra_nom	77.249915549073	Nominal RA [deg]
dec_nom	-68.729253301146	Nominal Dec [deg]
roll_nom	235.16040130793	Nominal Roll [deg]
revision	1	Processing version of data
ontime	27546.600211978	Sum of GTIs [s]
livetime	27186.683600696	Livetime [s]
ontime2	27546.600211978	Sum of GTIs [s]
ontime3	27546.600211978	Sum of GTIs [s]
ontime6	27546.600211978	Sum of GTIs [s]
ontime7	27546.600211978	Sum of GTIs [s]
l2events	253787	Number of level 2 events



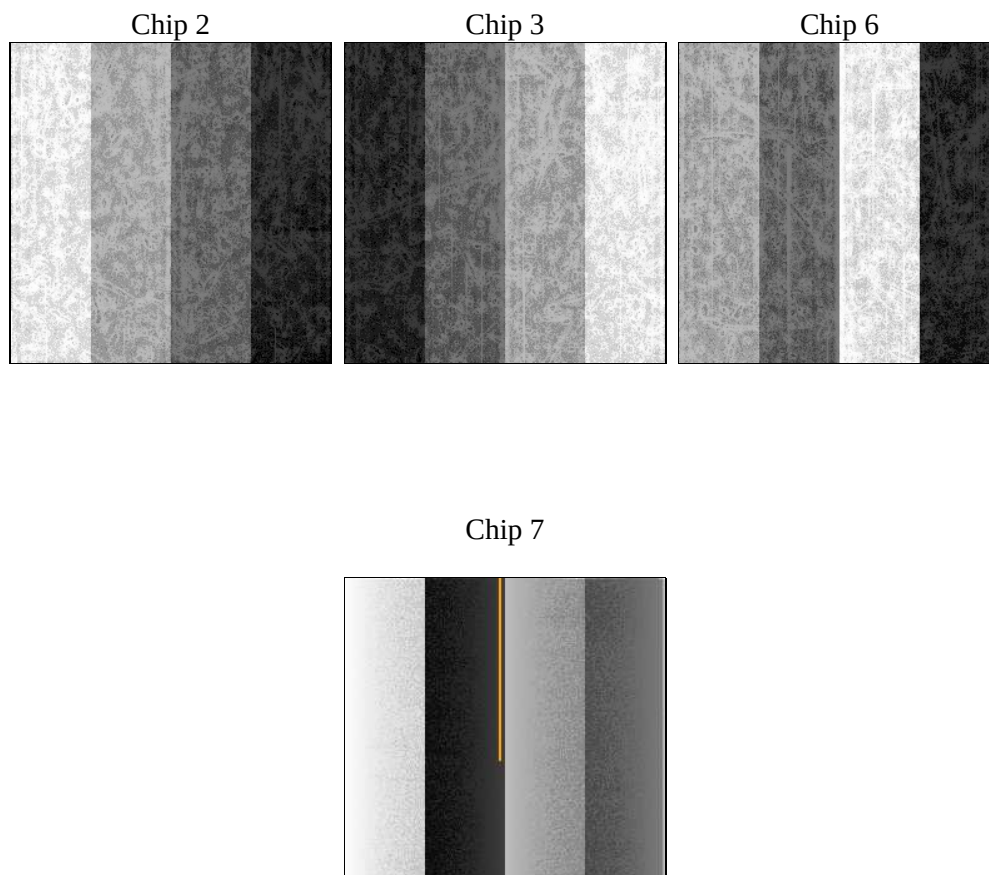
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27482.886000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	27546.600211978	Sum of GTIs [s]
caldbver	4.7.3	 	ontime2	27546.600211978	Sum of GTIs [s]
date	2017-04-18T13:55:00	Date and time of file creation	ontime3	27546.600211978	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	27546.600211978	Sum of GTIs [s]
			ontime7	27546.600211978	Sum of GTIs [s]
			l1events	1002298	Number of level 1 events

2.1.4 Events

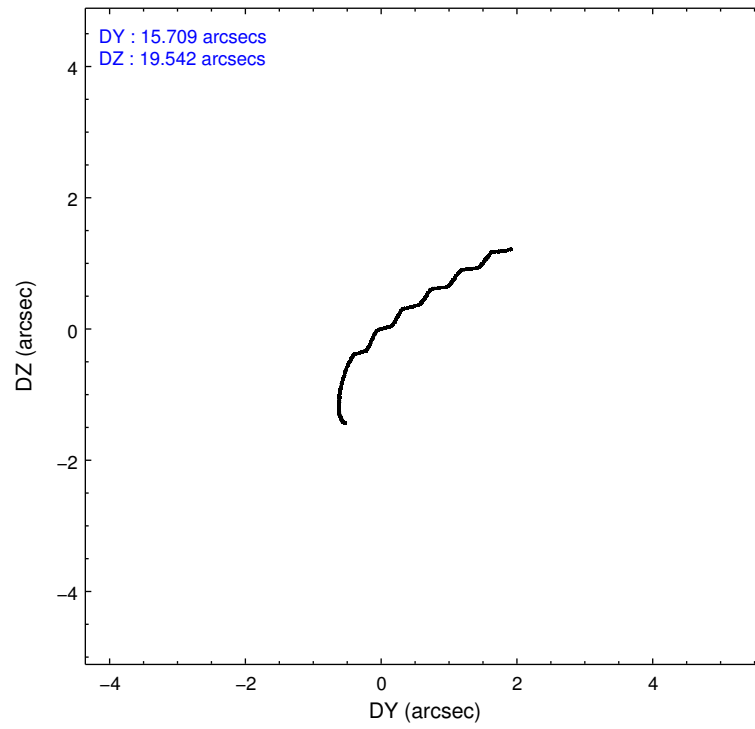
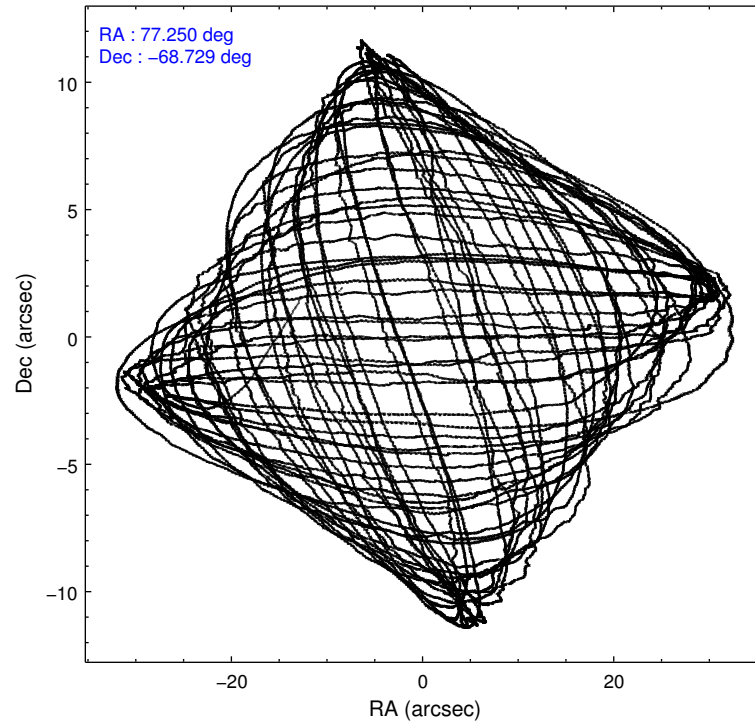
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	221634	203073	228574	349017
rejected events	191814	181877	196161	149774
rejected %	86%	89%	85%	42%

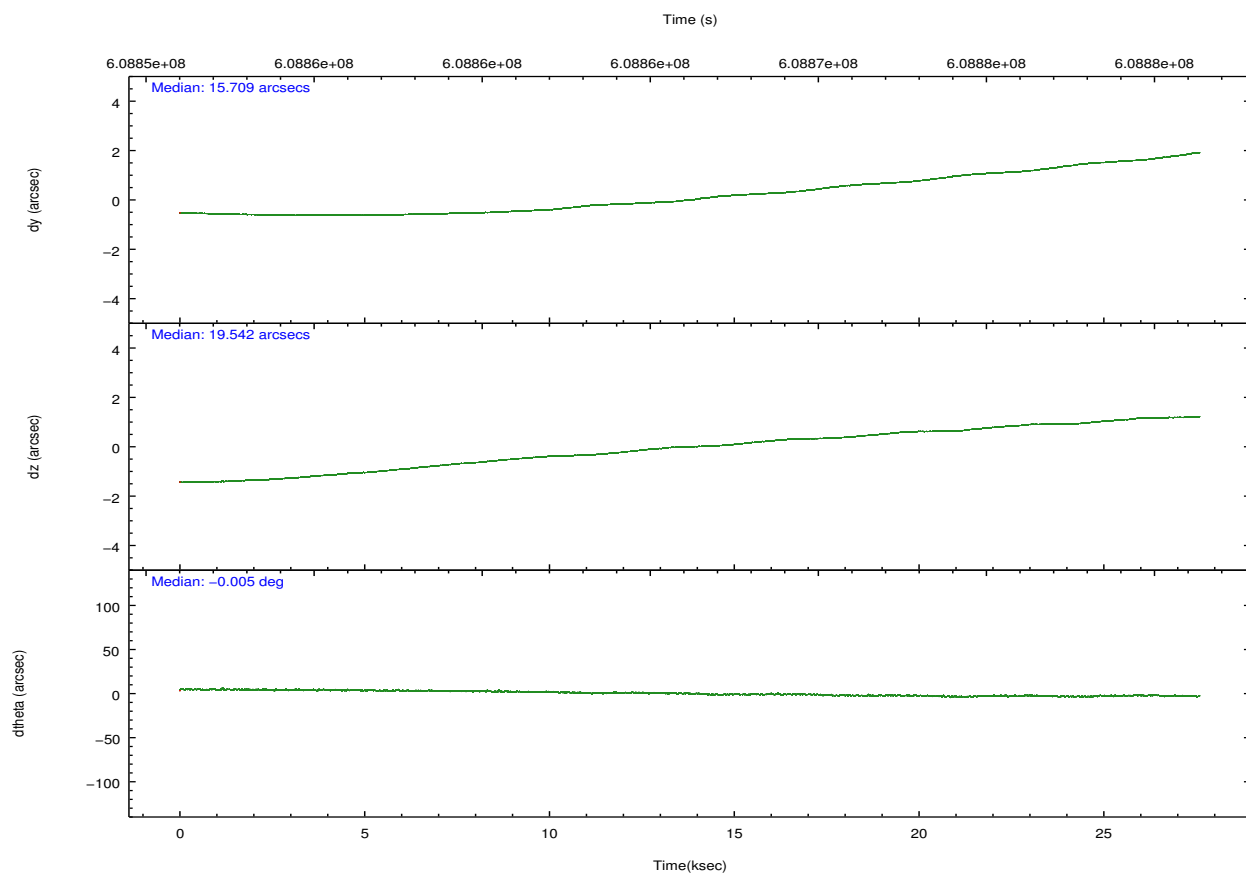
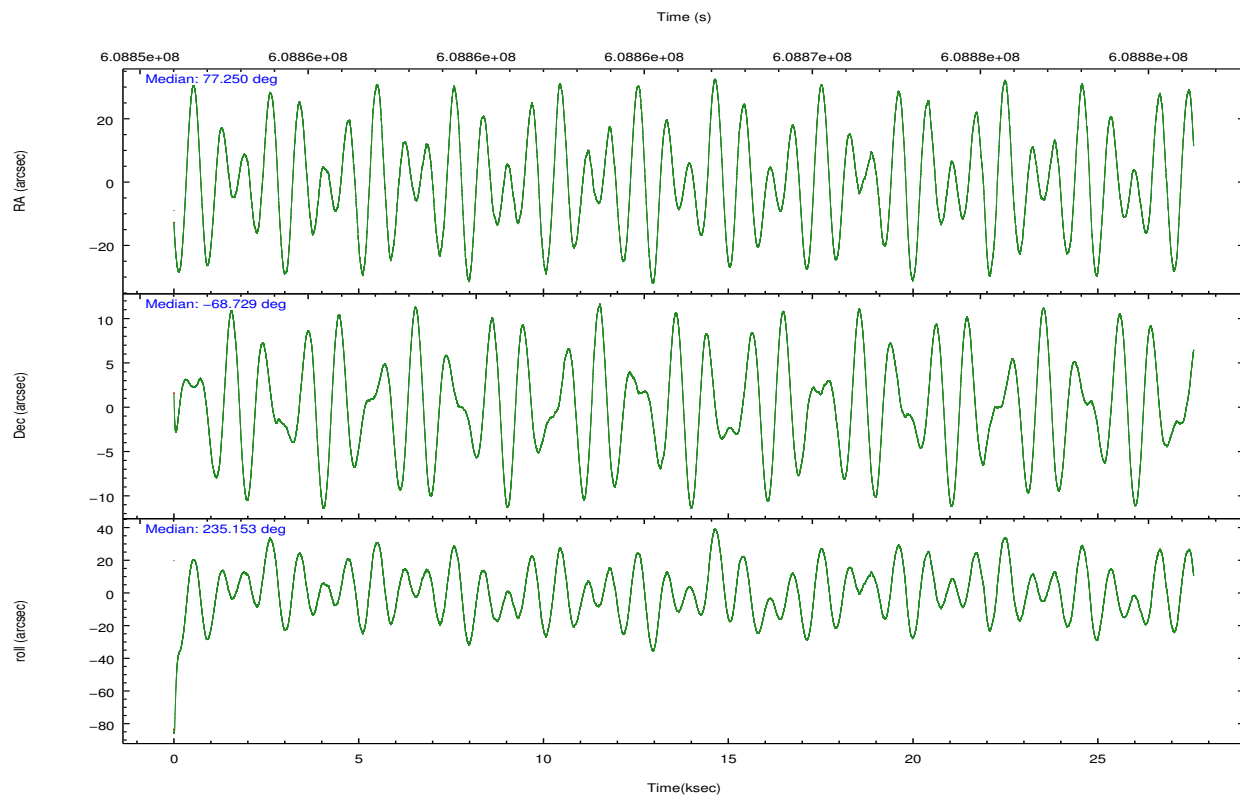
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	16147	7862	8162	32862
	7%	3%	3%	9%
grade 1 events	173	113	102	717
	0%	0%	0%	0%
grade 2 events	5114	4418	14205	48710
	2%	2%	6%	13%
grade 3 events	2154	2322	2249	19075
	0%	1%	0%	5%
grade 4 events	2241	2187	2198	18830
	1%	1%	0%	5%
grade 5 events	7569	9129	9281	26448
	3%	4%	4%	7%
grade 6 events	4172	4412	5606	79817
	1%	2%	2%	22%
grade 7 events	184064	172630	186771	122558
	83%	85%	81%	35%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	77.255279	77.2499155490727	Subarray requested	NONE	NONE
[deg] Pointing Dec	-68.701888	-68.72925330114644	Alternating exposures requested	N	N
[deg] Pointing Roll	235.008802	235.1604013079281	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	608852471.184000	608851480.9612401			
Observation start date	2017-04-17T21:40:02	2017-04-17T21:24:40			
[s] Observation end time (MET)	608879954.184000	608880177.88791			
Observation end date	2017-04-18T05:18:05	2017-04-18T05:22:57			
Read mode	TIMED	TIMED			

2.3 Aspect



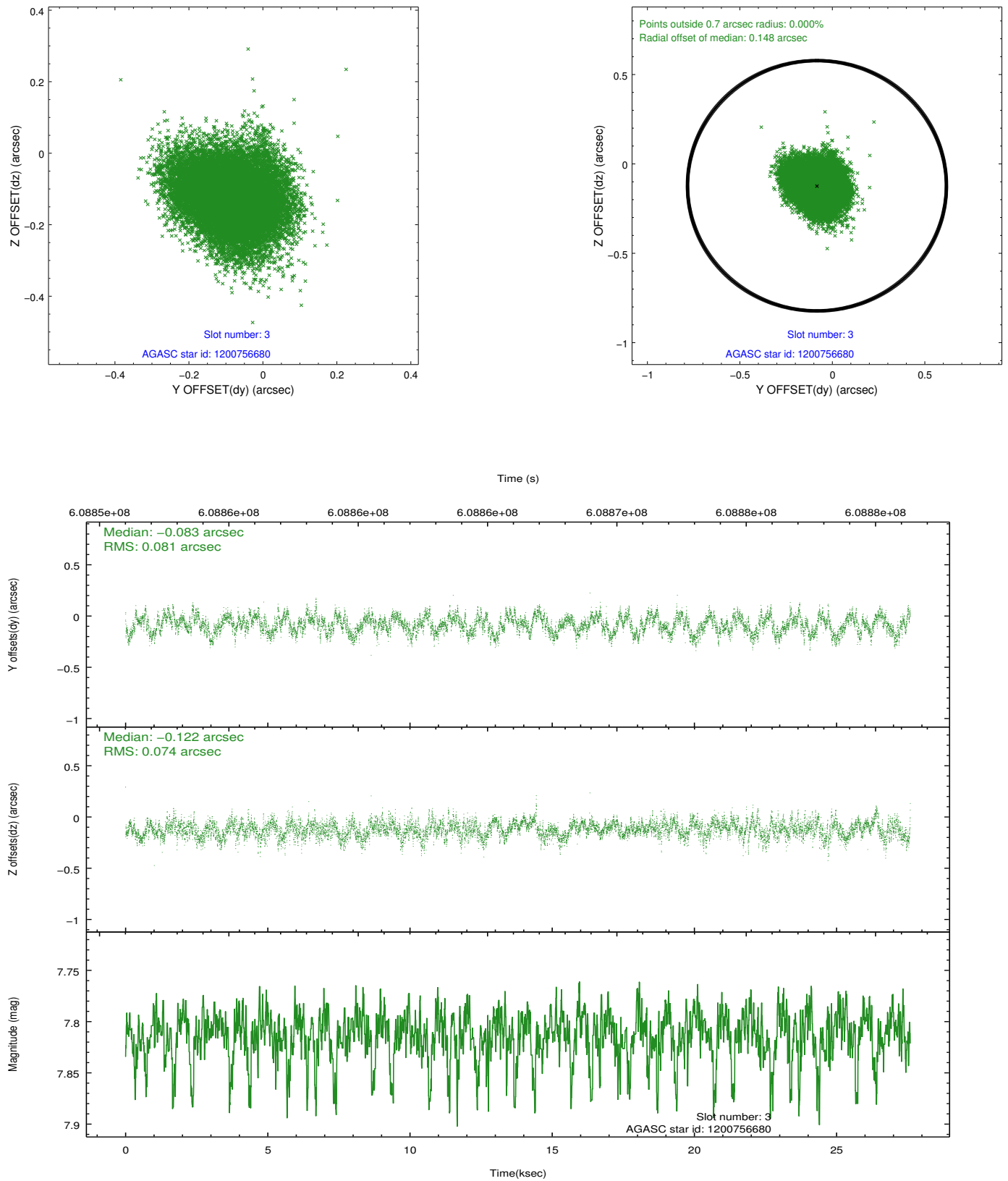


Slot Statistics

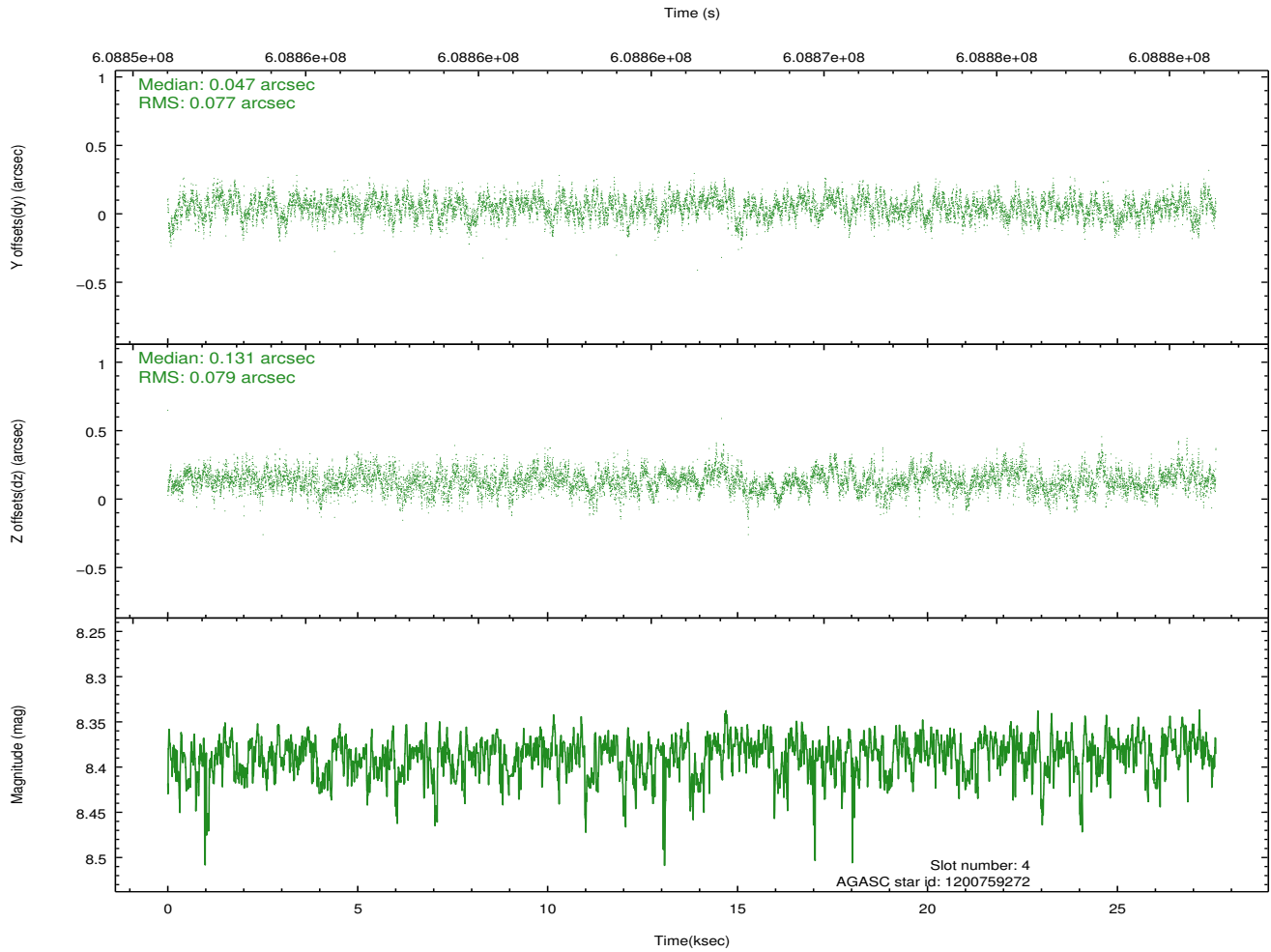
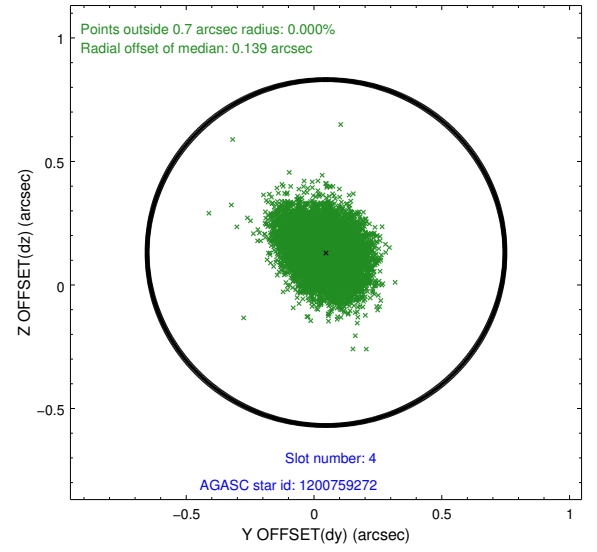
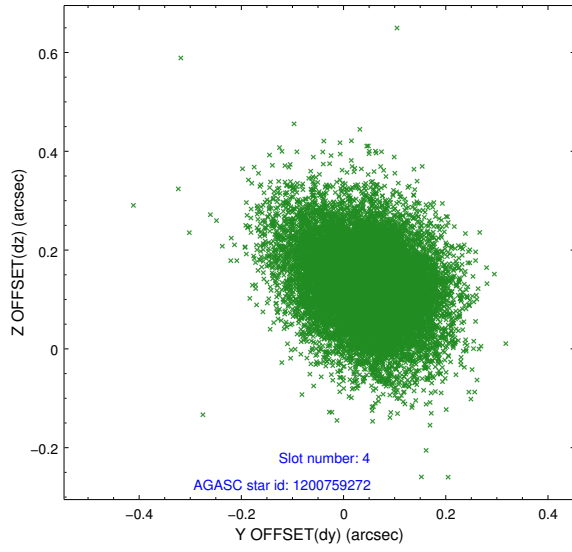
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	6730	-0.215	-0.116	0.023	0.041	0.000000	0.000000	-769.12	-1741.06
1	FID		ACIS-S-4	7.22	6731	0.498	0.136	0.014	0.021	0.000000	0.000000	2144.80	167.63
2	FID		ACIS-S-5	7.21	6730	-0.317	-0.010	0.028	0.041	0.000000	0.000000	-1821.97	161.21
3	GUIDE	used	1200756680	7.81	13460	-0.083	-0.122	0.117	0.184	76.219475	-68.900351	1365.50	-682.30
4	GUIDE	used	1200759272	8.39	13449	0.047	0.131	0.116	0.194	75.444915	-68.988718	2214.80	-1301.74
5	GUIDE	used	1200758760	8.28	13456	0.166	0.464	0.096	0.157	76.277764	-68.086435	-1052.42	-2340.09
6	GUIDE	used	1200886248	8.38	13450	-0.164	-0.163	0.133	0.222	79.513576	-68.465750	-2362.54	1987.72
7	GUIDE	used	1201280984	7.00	13459	0.038	-0.309	0.115	0.182	77.867422	-69.546090	2051.42	2376.27

2.4 Star Slots

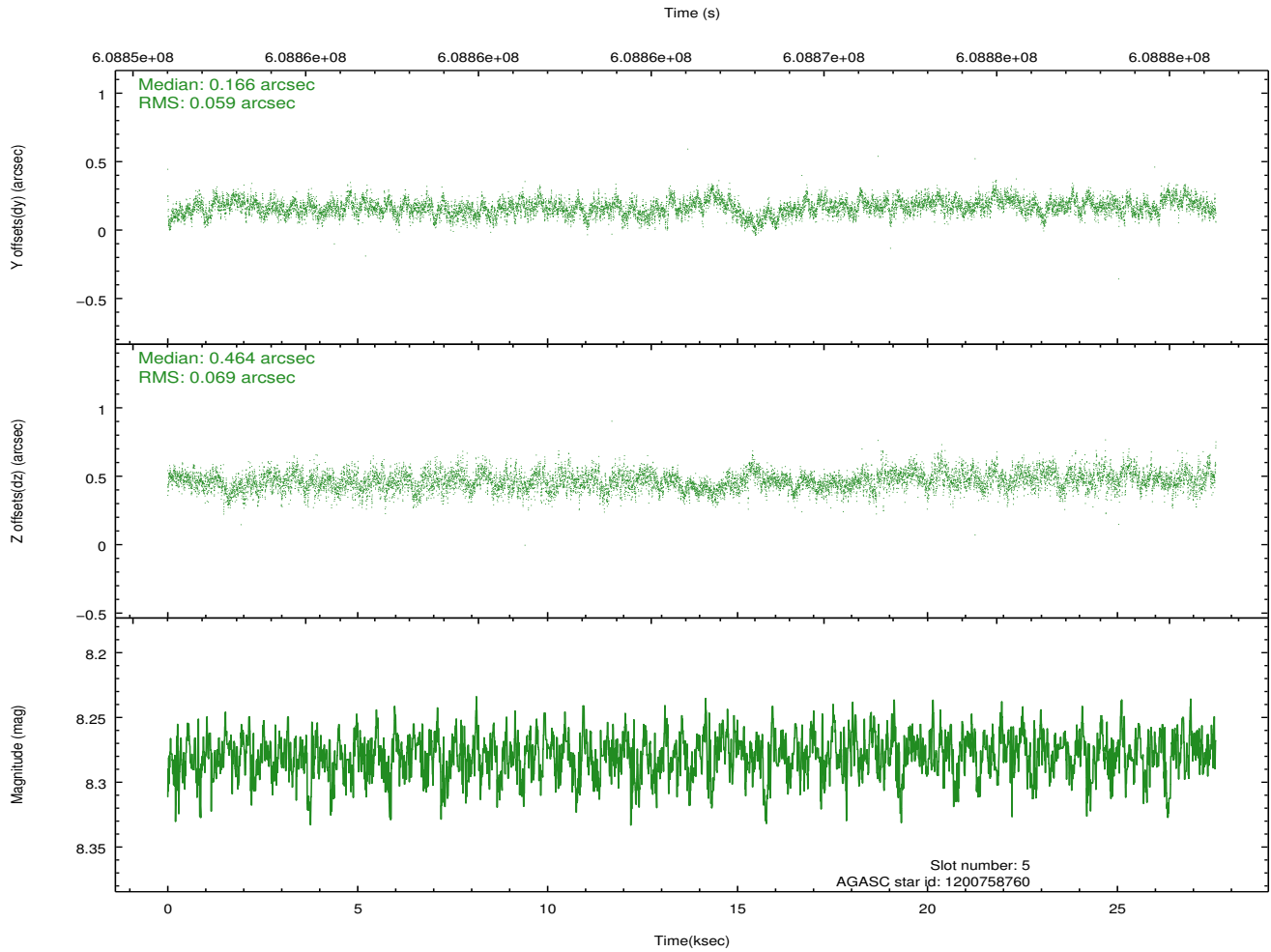
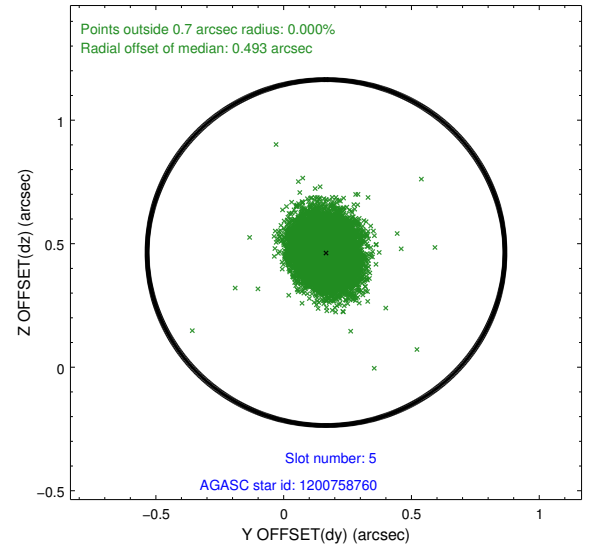
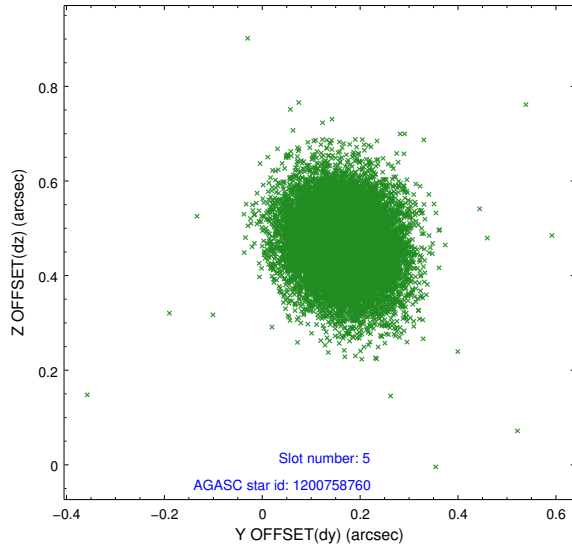
2.4.1 Slot 3



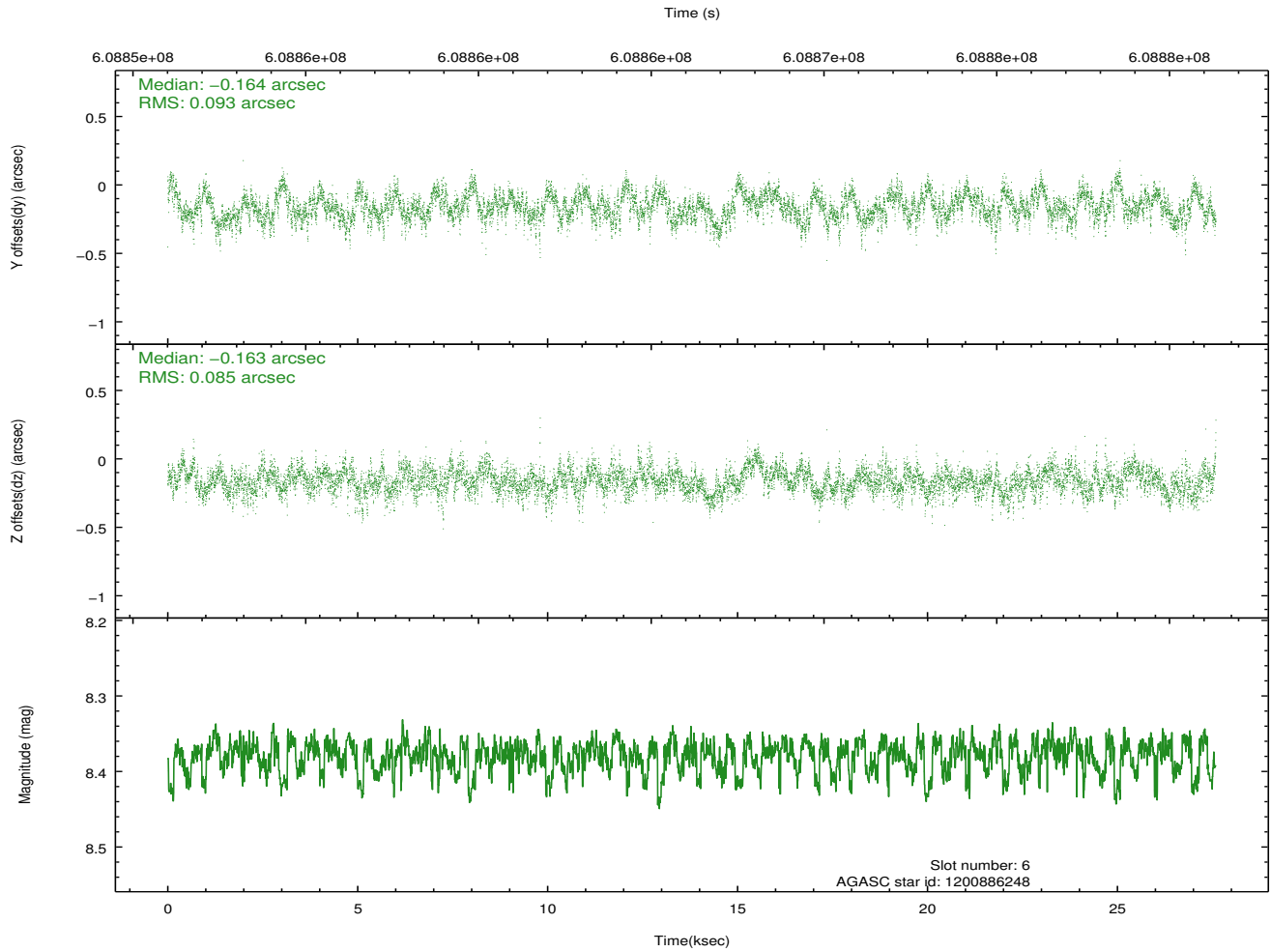
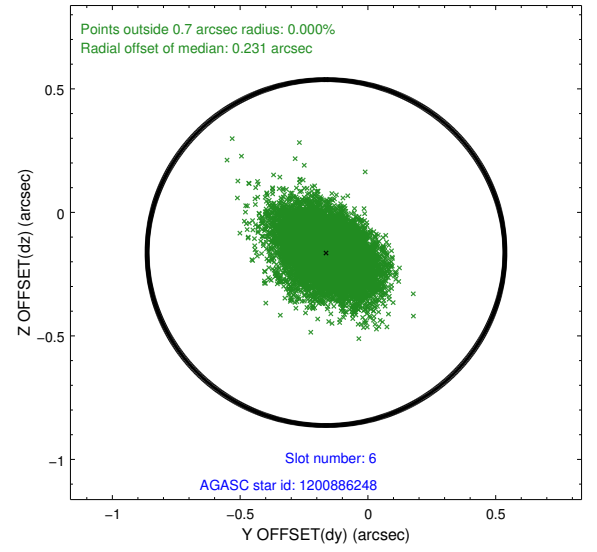
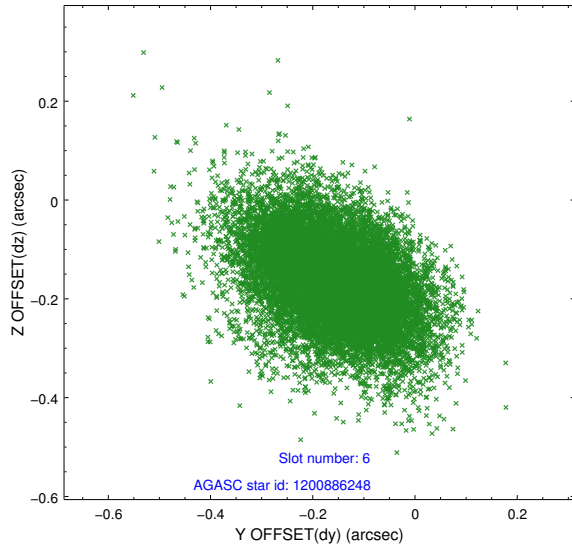
2.4.2 Slot 4



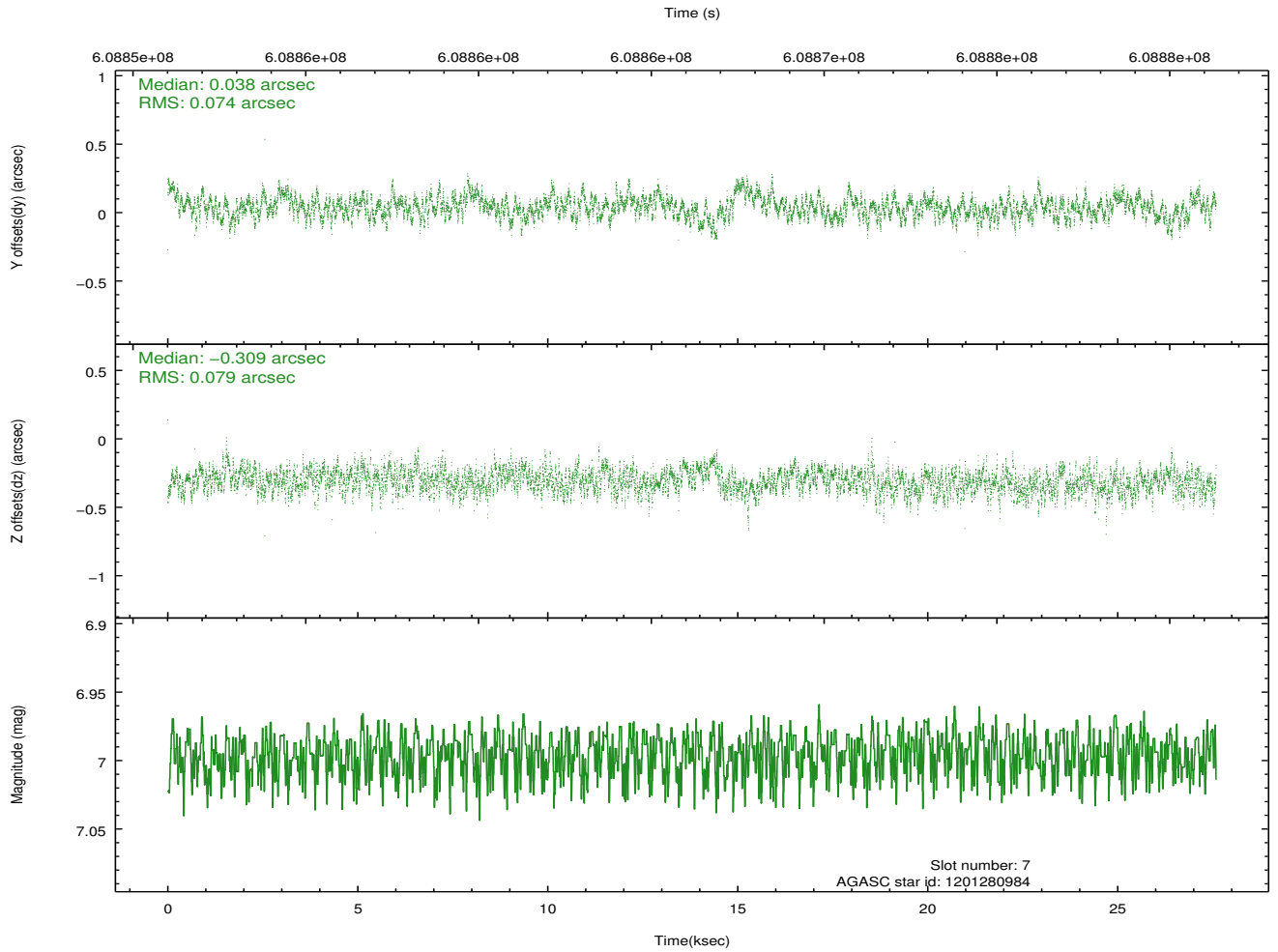
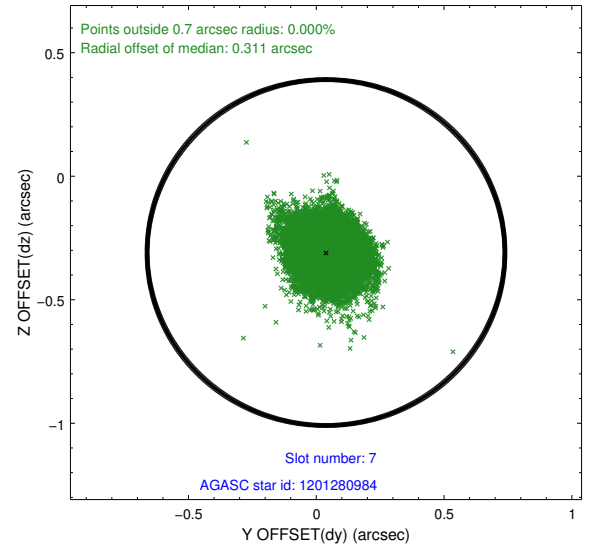
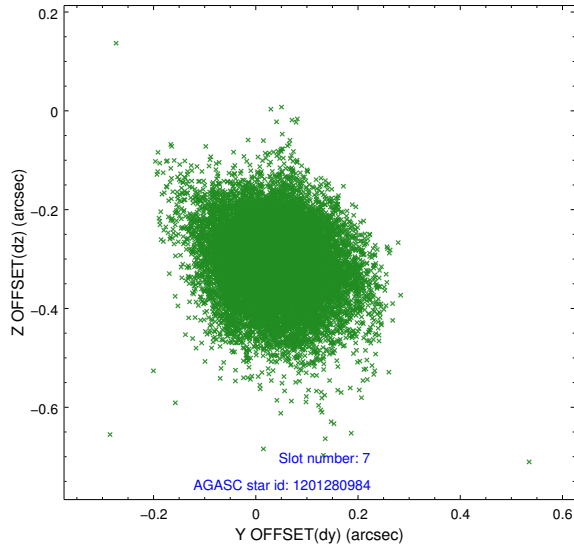
2.4.3 Slot 5



2.4.4 Slot 6

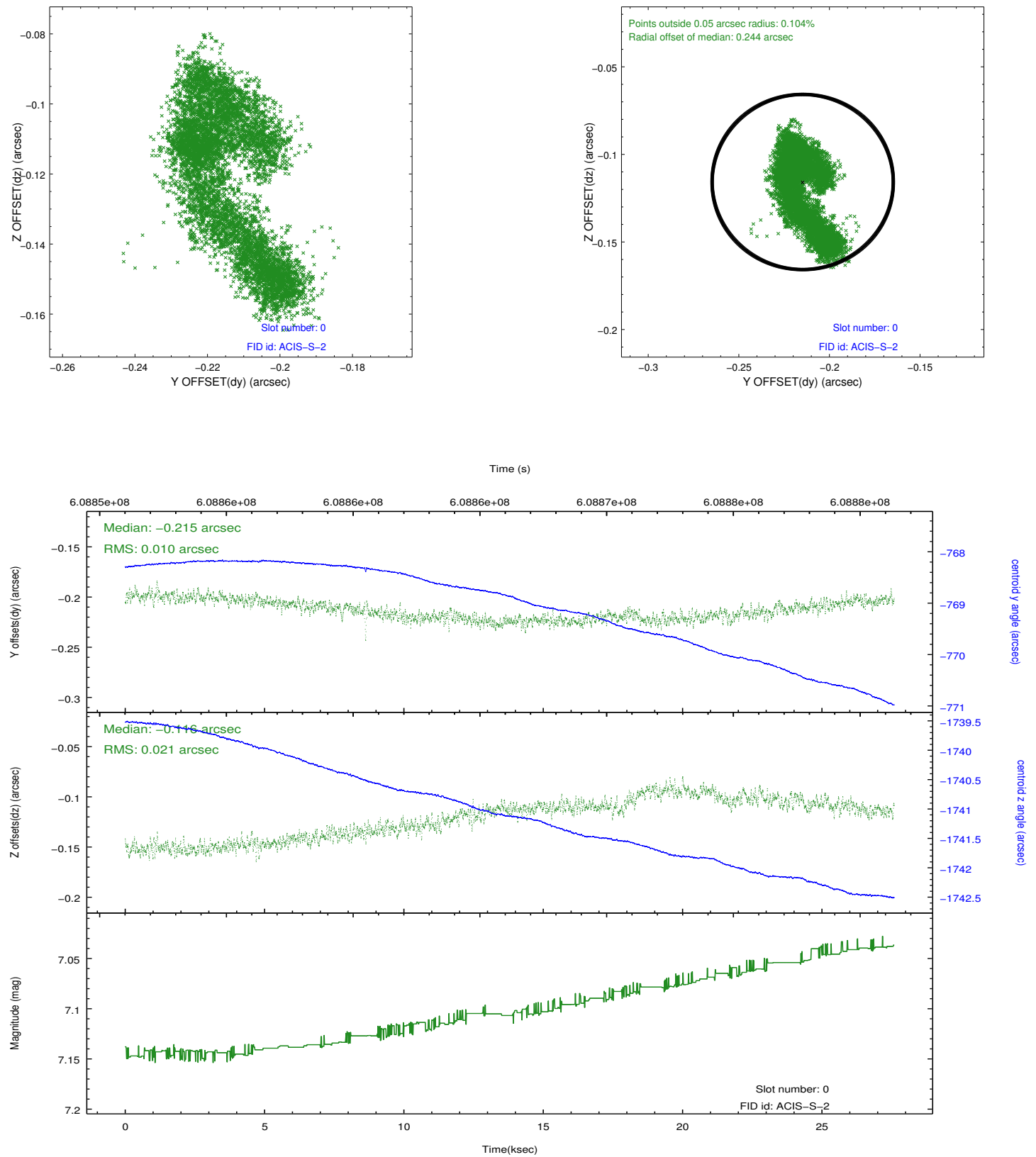


2.4.5 Slot 7

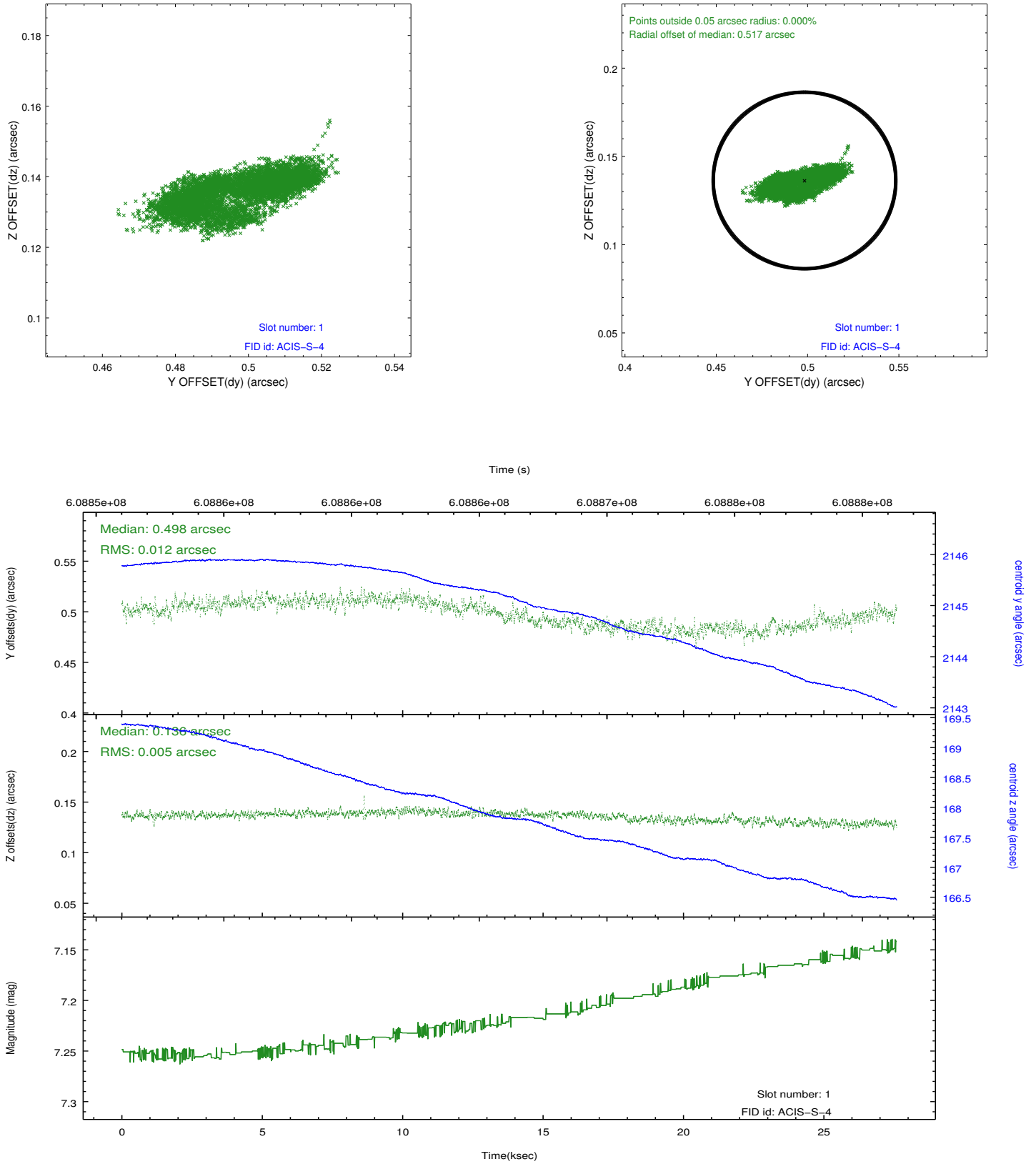


2.5 FID Slots

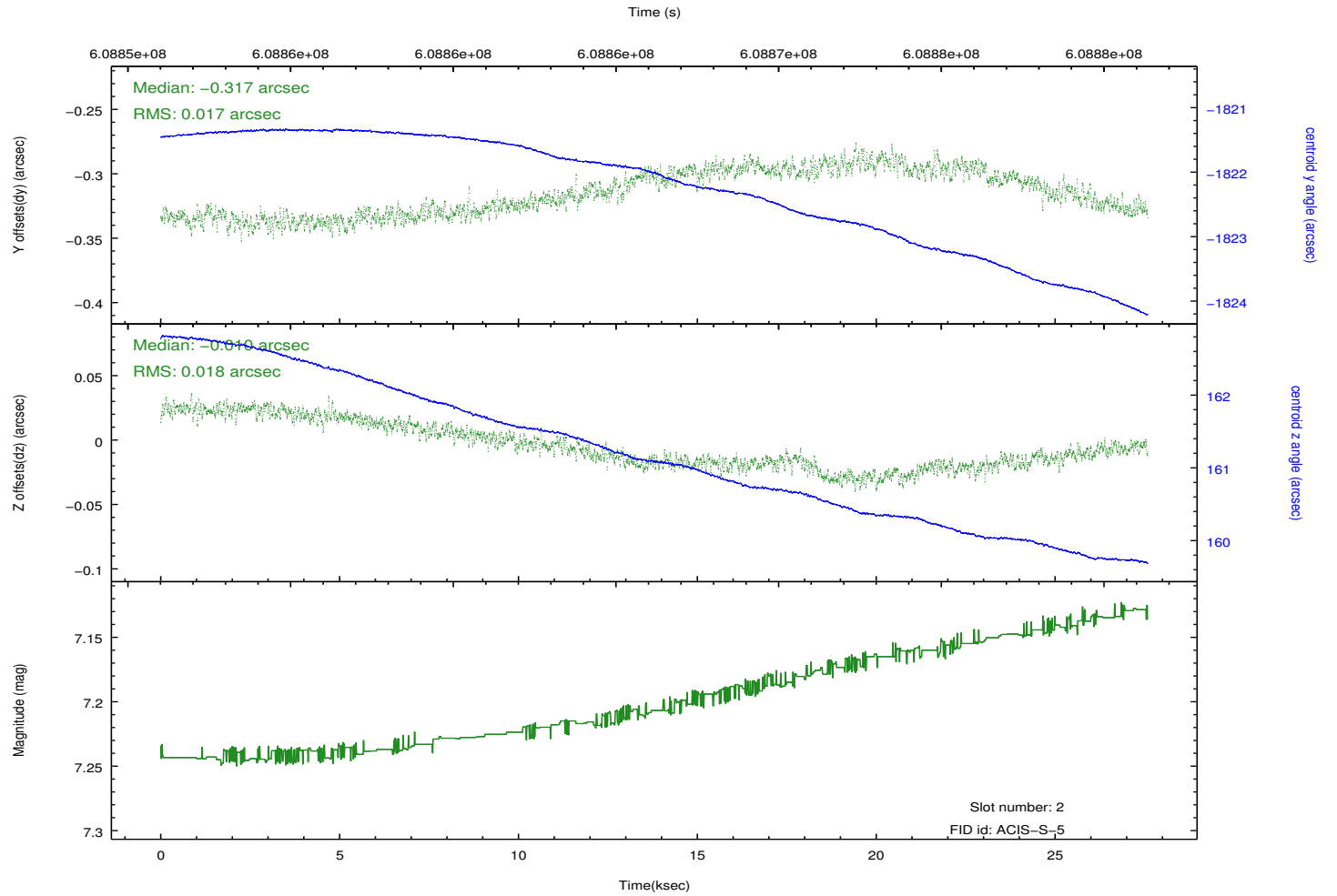
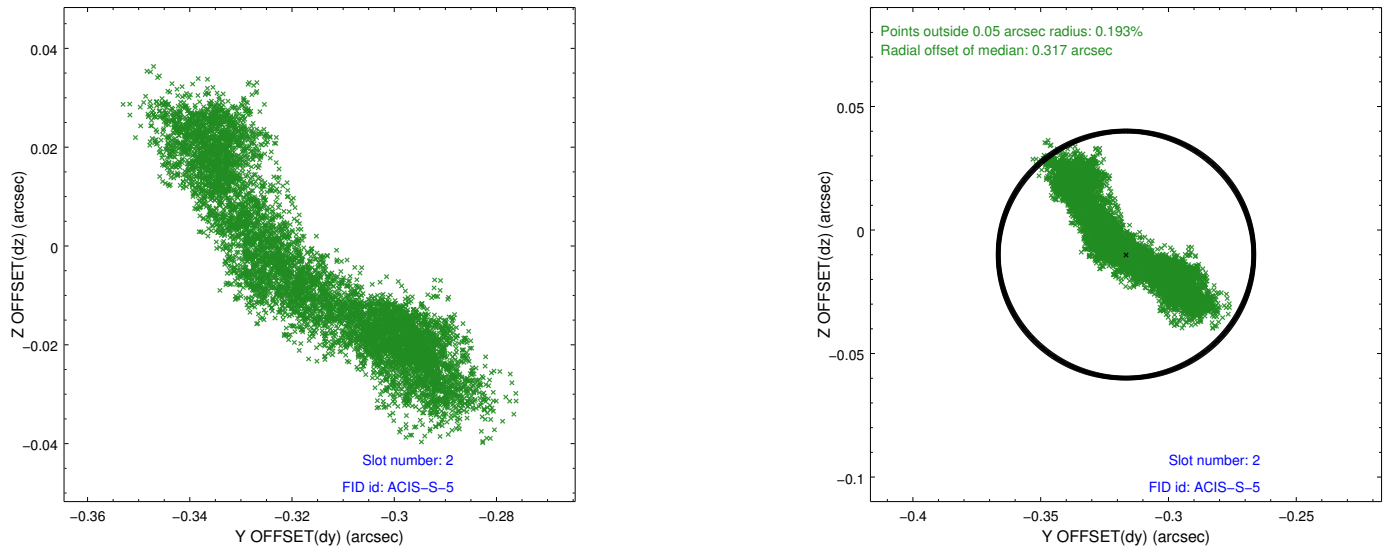
2.5.1 Slot 0



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)	2017.05.01
V&V Edition	2
V&V Disposition and Status	OK
V&V Charge Time	27.546600211978

A.2 Comments

Joint proposal with HST.