

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12074 - L2 Version 2
Chandra X-Ray Center

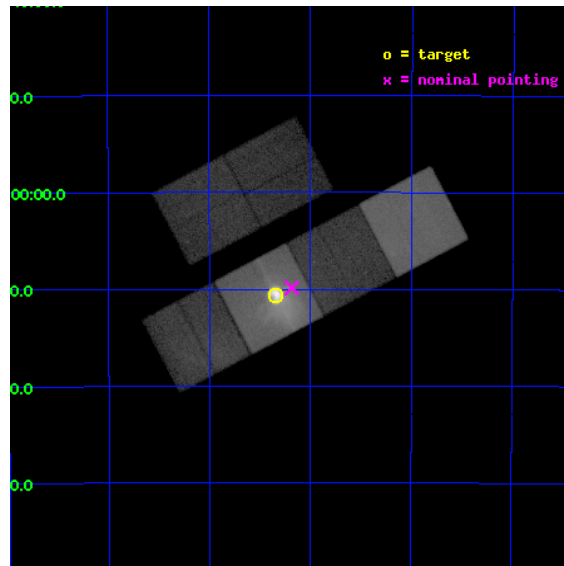
L2 Processing Date : Jul 2 2012

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

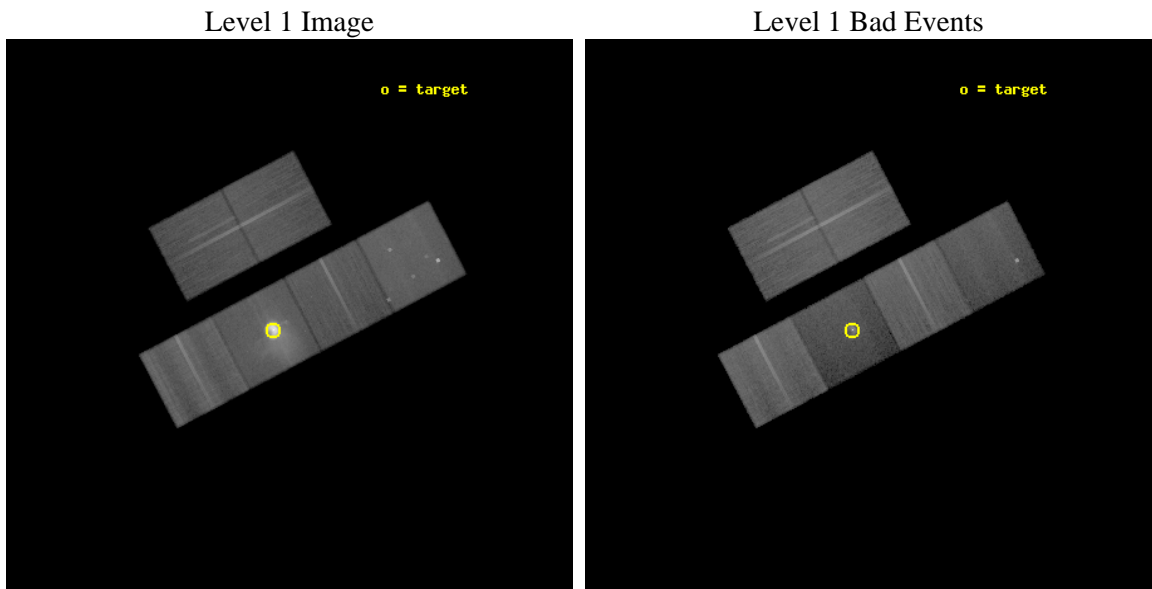
seq_num	501356	Sequence number
obs_id	12074	Observation id
title	The Unique Dynamical Vela Pulsar Wind Nebula	Proposal title
observer	Dr. George Pavlov	Principal investigator
object	Vela PWN	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	128.83625	Observer's specified target RA [deg]
dec_targ	-45.176583	Observer's specified target Dec [deg]
ra_nom	128.79595216825	Nominal RA [deg]
dec_nom	-45.164435535424	Nominal Dec [deg]
roll_nom	152.23768418027	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40050.280651569	Sum of GTIs [s]
liveltime	39543.139882575	Livetime [s]
ontime2	40050.321691573	Sum of GTIs [s]
ontime3	40050.157531559	Sum of GTIs [s]
ontime5	40050.239611566	Sum of GTIs [s]
ontime6	40050.198571563	Sum of GTIs [s]
ontime7	40050.280651569	Sum of GTIs [s]
ontime8	40043.634620607	Sum of GTIs [s]
l2events	1030899	Number of level 2 events



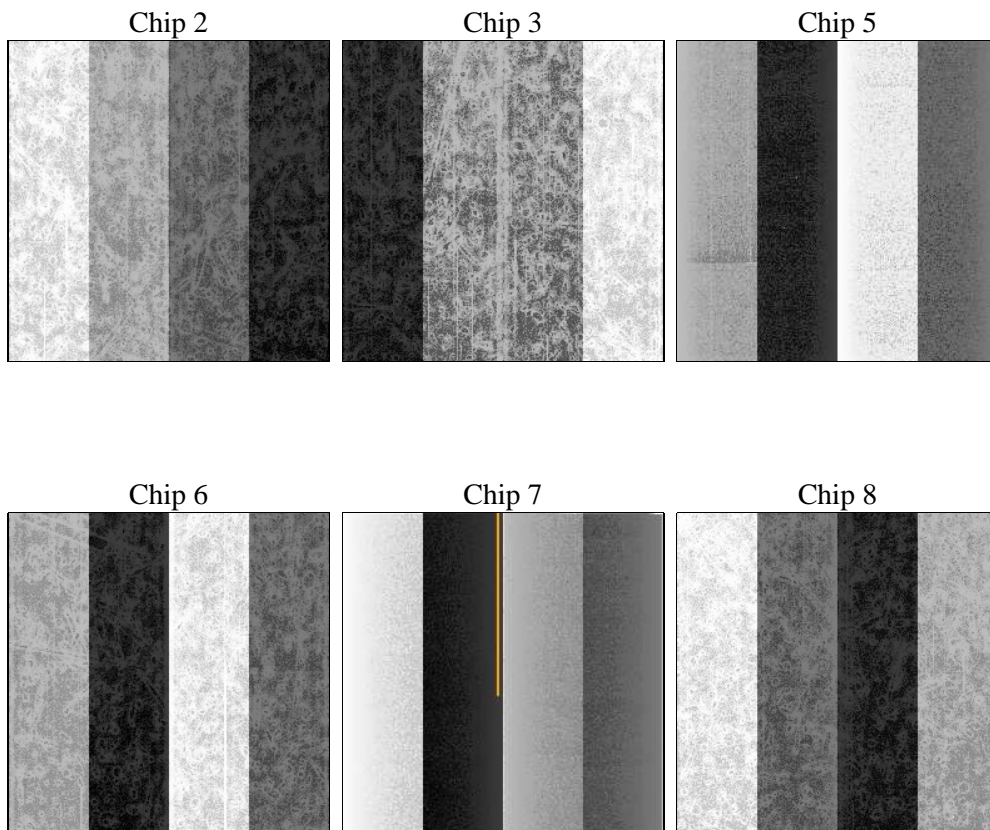
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	40050.280651569	Sum of GTIs [s]
caldbver	4.5.0	 	ontime2	40050.321691573	Sum of GTIs [s]
date	2012-07-02T06:58:04	Date and time of file creation	ontime3	40050.157531559	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	40050.239611566	Sum of GTIs [s]
			ontime6	40050.198571563	Sum of GTIs [s]
			ontime7	40050.280651569	Sum of GTIs [s]
			ontime8	40043.634620607	Sum of GTIs [s]
			l1events	2344591	Number of level 1 events

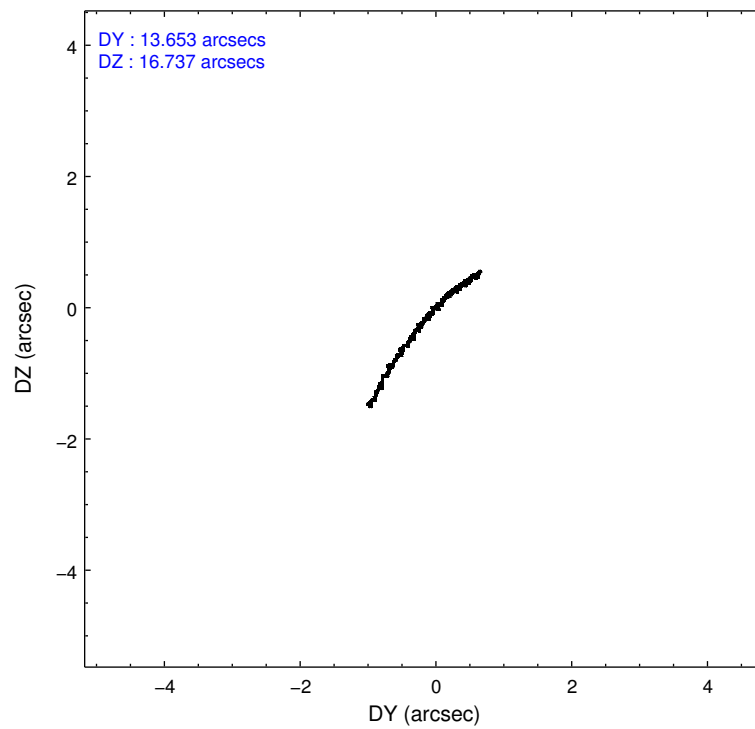
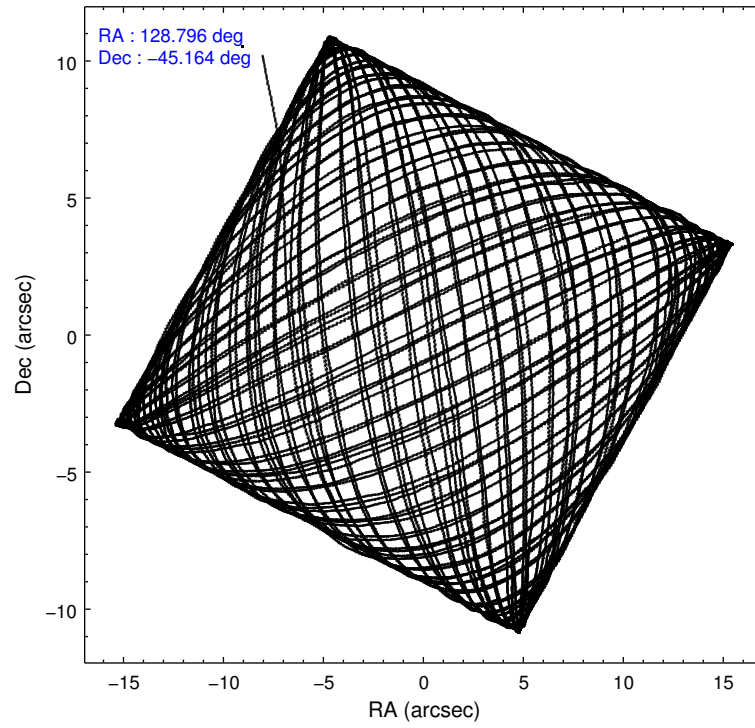
2.1.4 Events

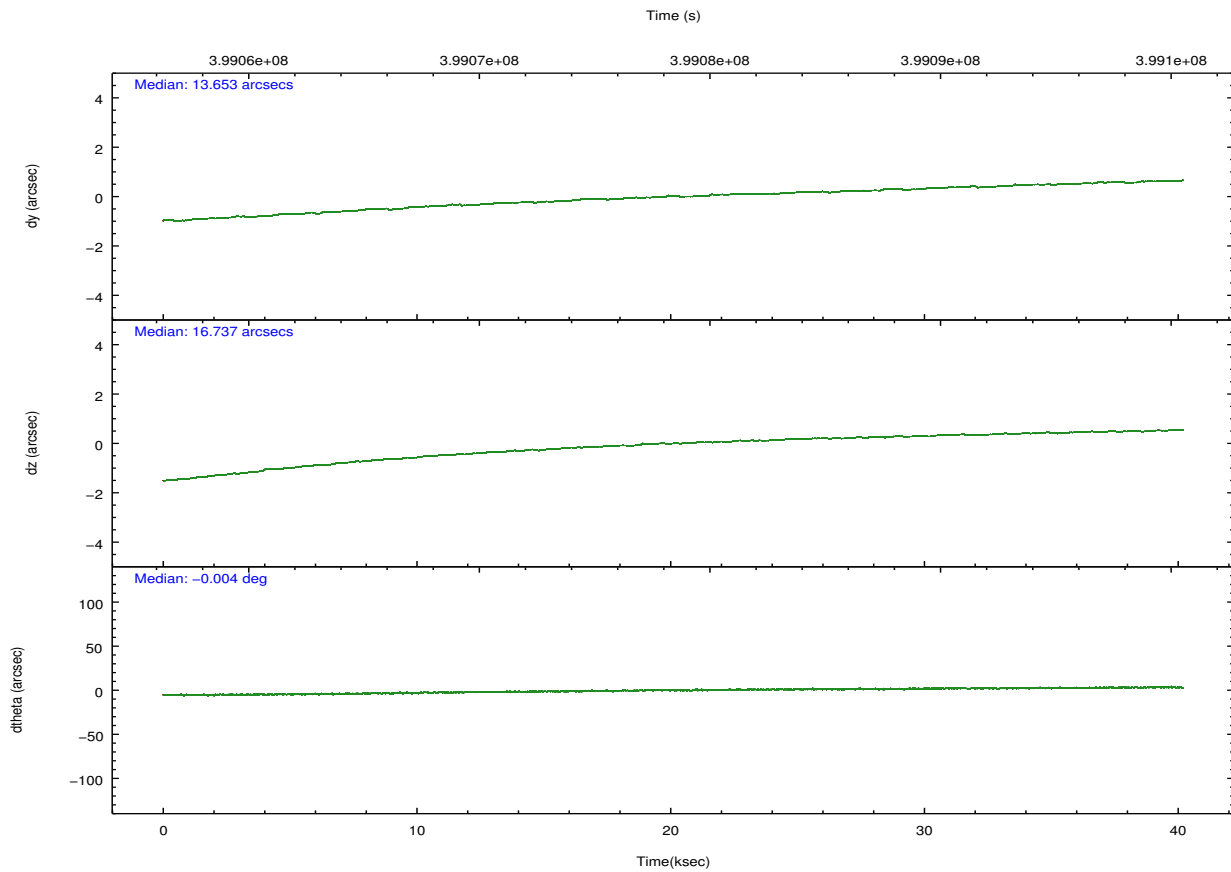
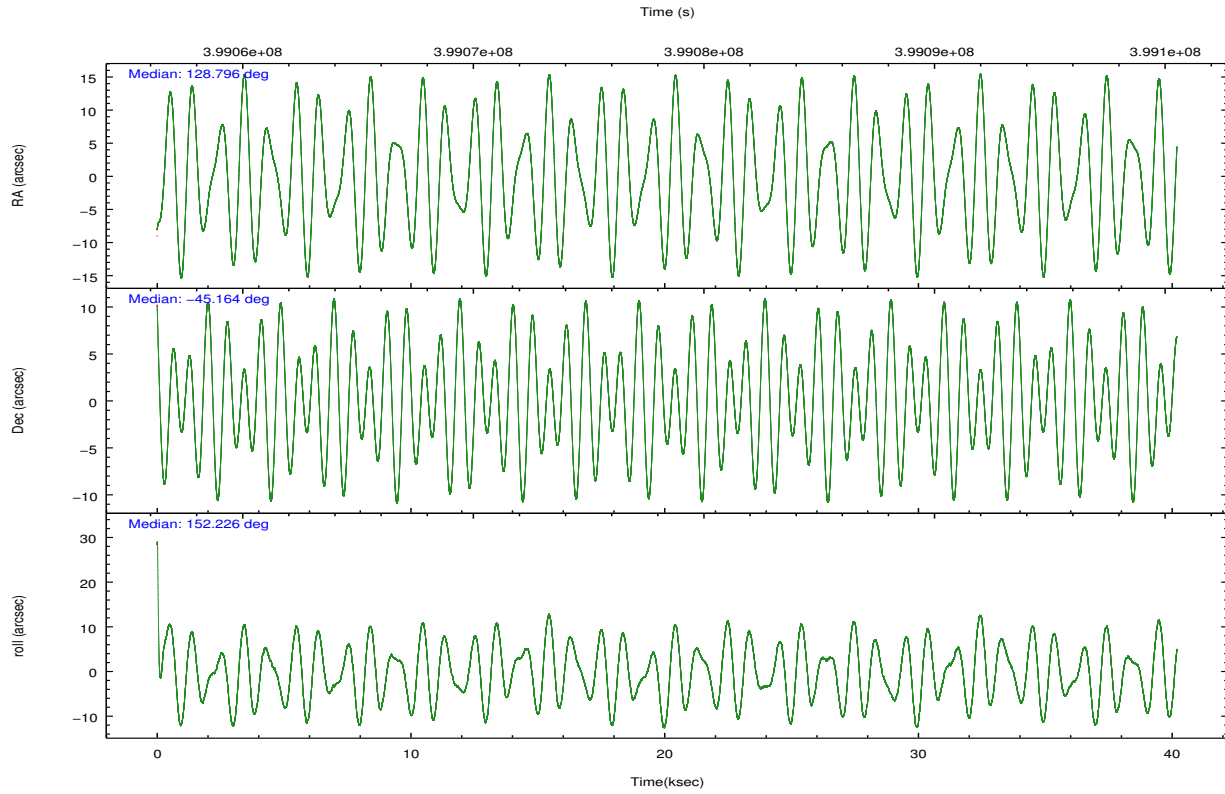
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	293913	270455	377186	288617	741368	373052	grade 0 events	25808	28884	57424	38309	178824	61779
rejected events	249889	223458	137839	228909	120883	233989		8%	10%	15%	13%	24%	16%
rejected %	85%	82%	36%	79%	16%	62%	grade 1 events	250	235	4355	241	1598	434
								0%	0%	1%	0%	0%	0%
							grade 2 events	7936	7258	70519	8829	156982	26173
								2%	2%	18%	3%	21%	7%
							grade 3 events	2814	3095	12289	3571	66672	12660
								0%	1%	3%	1%	8%	3%
							grade 4 events	2991	3091	11982	3407	66275	11686
								1%	1%	3%	1%	8%	3%
							grade 5 events	6762	7910	25035	8056	29036	12931
								2%	2%	6%	2%	3%	3%
							grade 6 events	4483	4675	87172	5603	151837	26777
								1%	1%	23%	1%	20%	7%
							grade 7 events	242869	215307	108410	220601	90144	220612
								82%	79%	28%	76%	12%	59%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	128.834682	128.7959521682544	CCD I2 on	O2	Y
[deg] Pointing Dec	-45.162992	-45.1644355354243	CCD I3 on	Y	Y
[deg] Pointing Roll	152.108510	152.2376841802707	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	399058490.184000	399056818.63534	CCD S5 on	N	N
Observation start date	2010-08-24T17:33:44	2010-08-24T17:06:58	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	399098490.184000	399099555.50003	On-chip summing requested	N	N
Observation end date	2010-08-25T04:40:24	2010-08-25T04:59:15	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



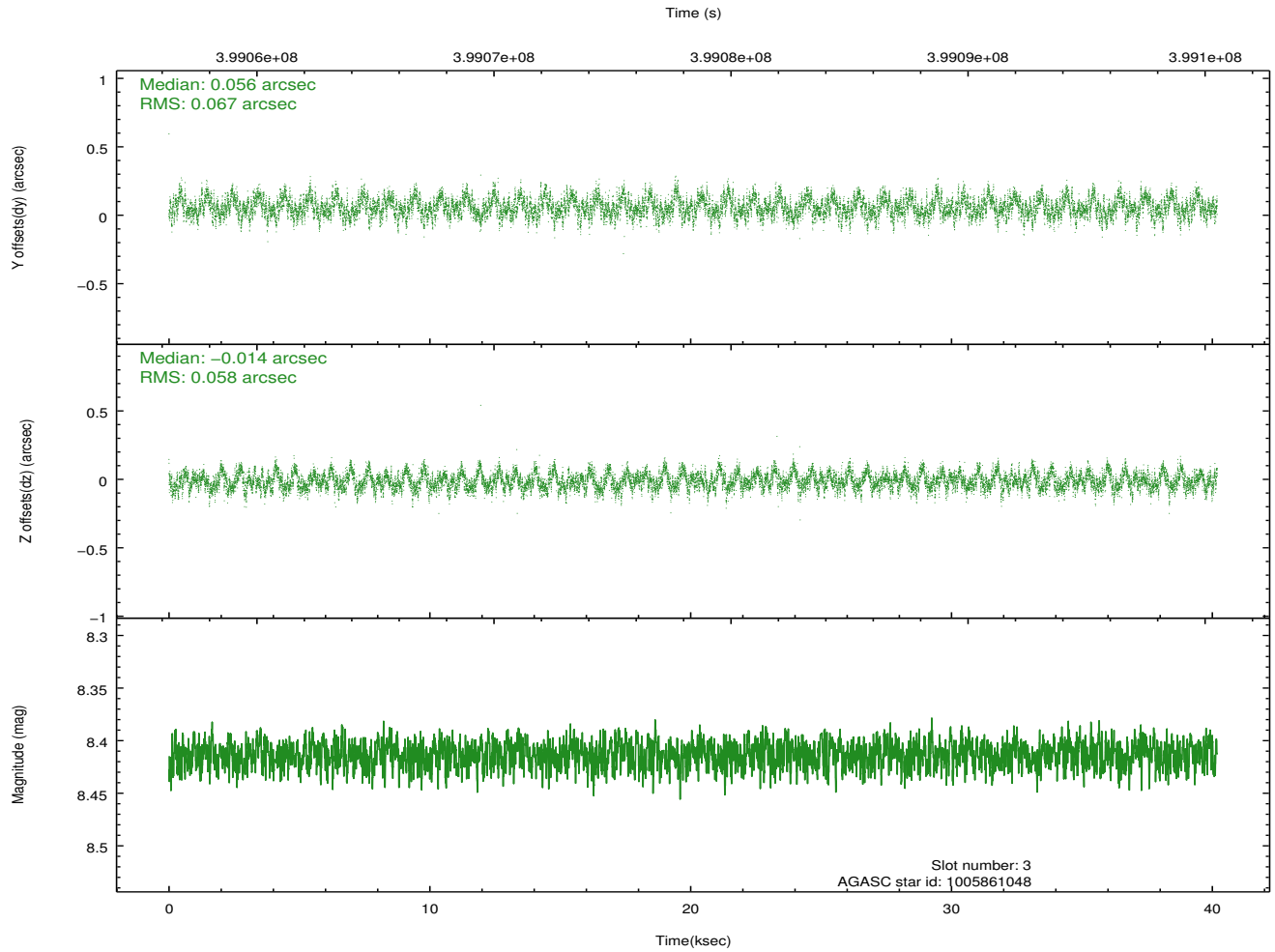
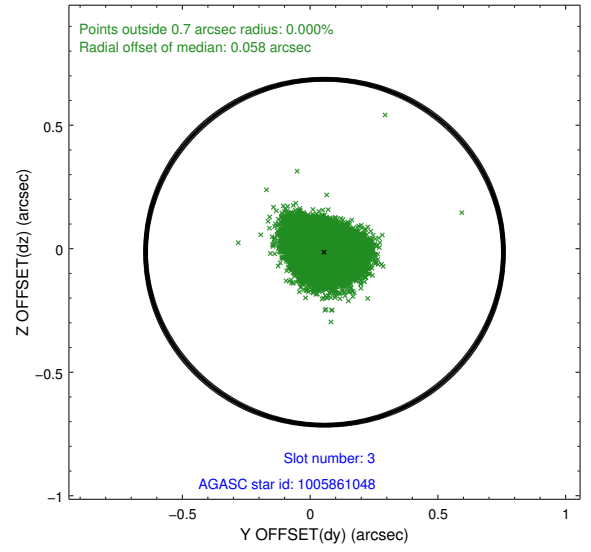
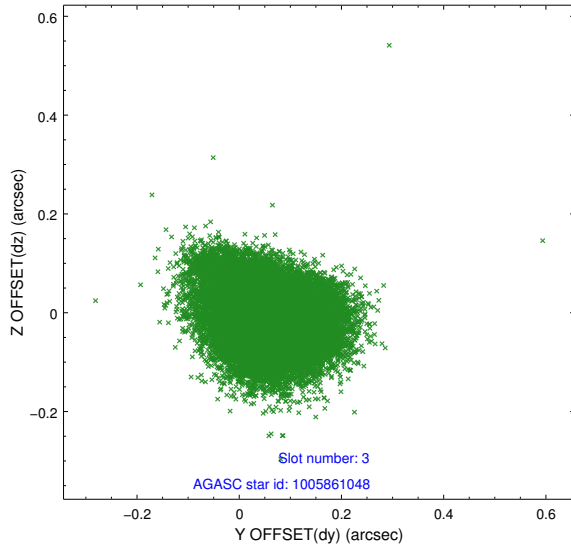


Slot Statistics

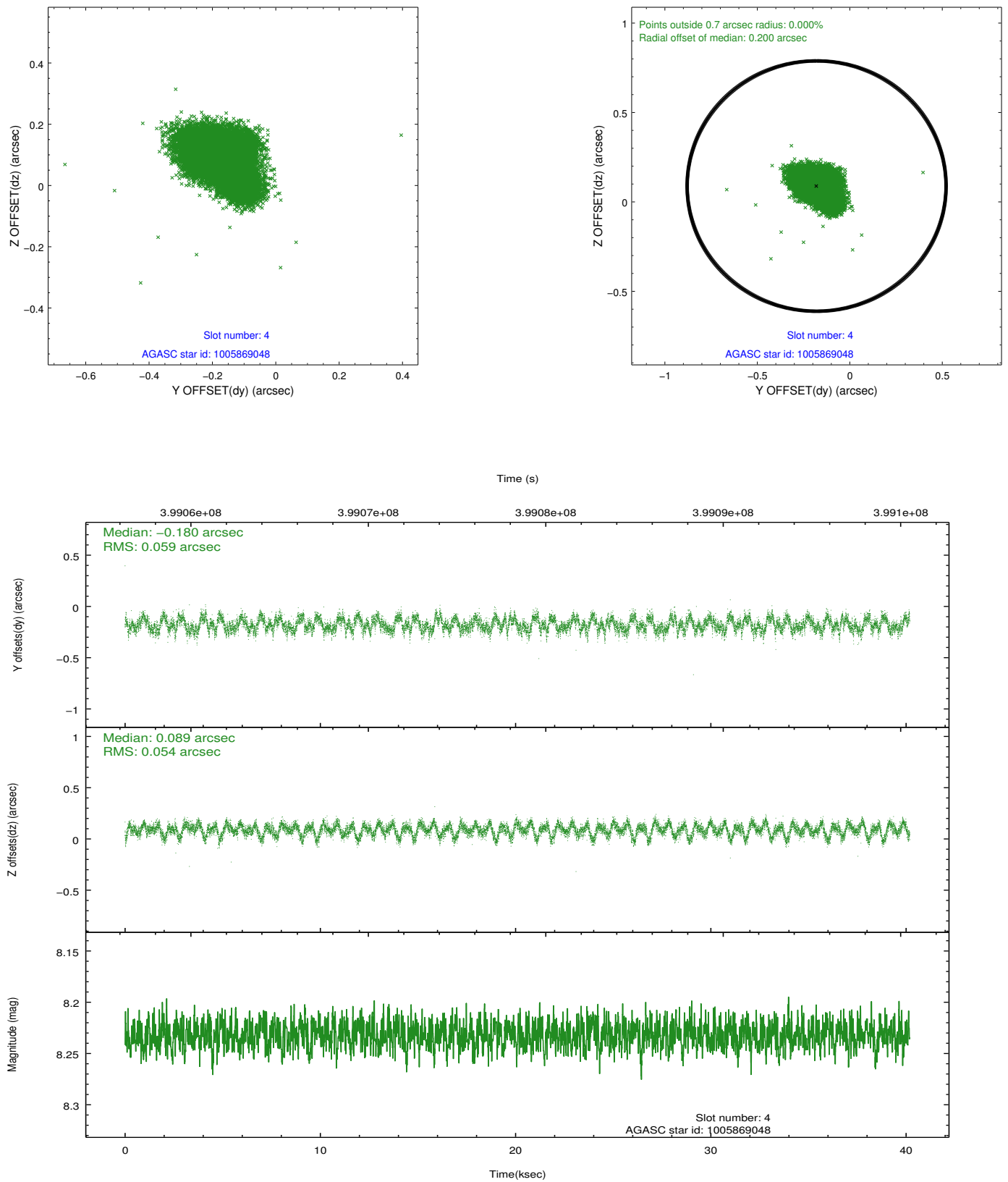
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.89	9803	-0.037	-0.024	0.014	0.021	0.000000	0.000000	-766.57	-1737.96
1	FID	ACIS-S-4	6.97	9803	0.170	0.024	0.014	0.026	0.000000	0.000000	2146.92	170.54
2	FID	ACIS-S-5	7.01	9803	-0.168	0.010	0.013	0.039	0.000000	0.000000	-1819.51	164.23
3	GUIDE	1005861048	8.41	19593	0.056	-0.014	0.095	0.151	128.669106	-44.528323	1445.01	-1820.05
4	GUIDE	1005869048	8.23	19596	-0.180	0.089	0.085	0.139	128.429058	-44.495949	2043.43	-1632.63
5	GUIDE	1005871096	9.01	19594	-0.057	0.077	0.097	0.154	128.774147	-44.764566	807.99	-1195.14
6	GUIDE	1005871784	8.01	19531	0.159	-0.050	0.077	0.124	128.533947	-44.544833	1723.11	-1604.50
7	GUIDE	1068263200	9.12	19584	0.021	-0.099	0.100	0.160	128.222628	-45.344390	1060.73	1306.69

2.4 Star Slots

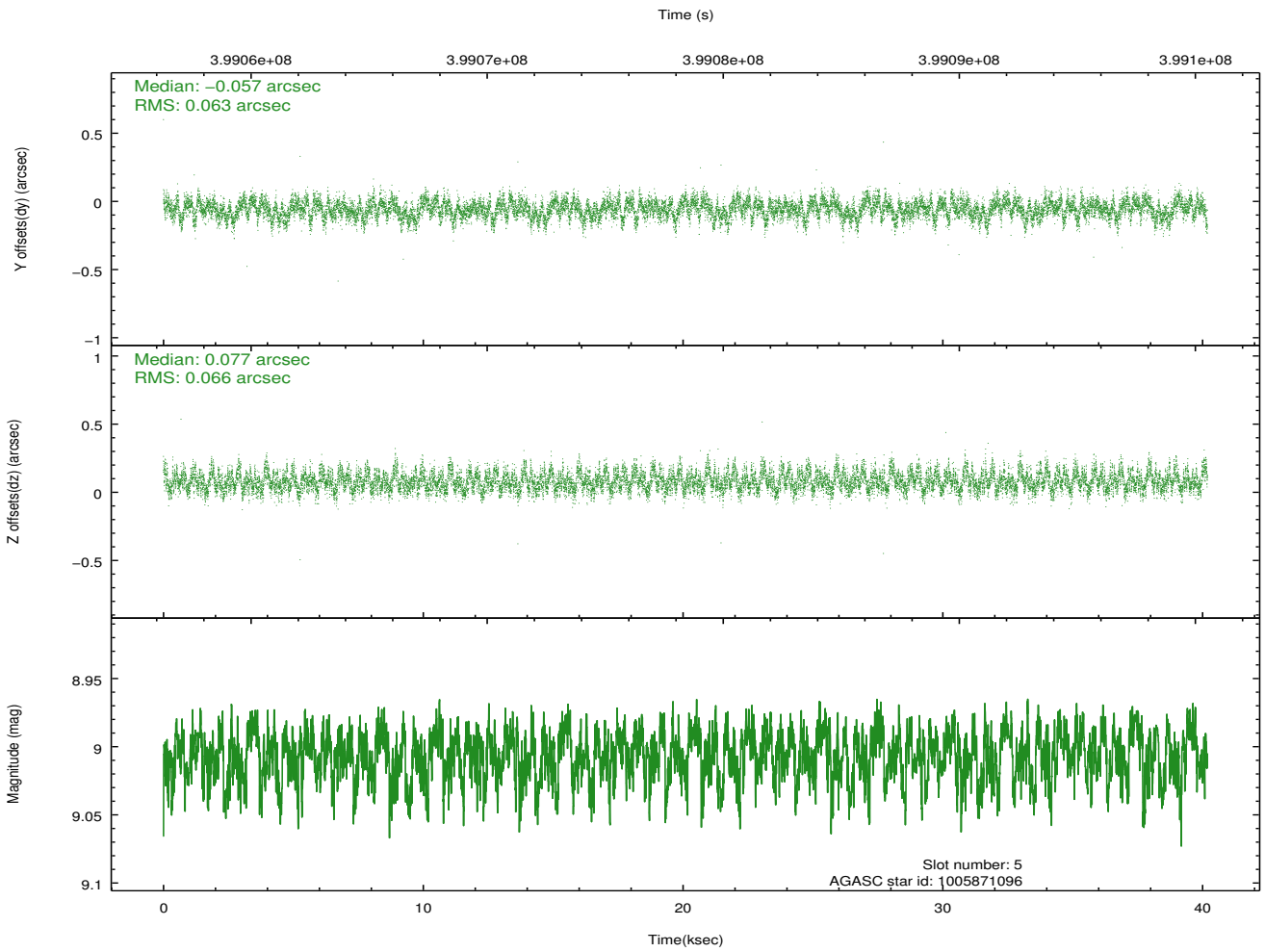
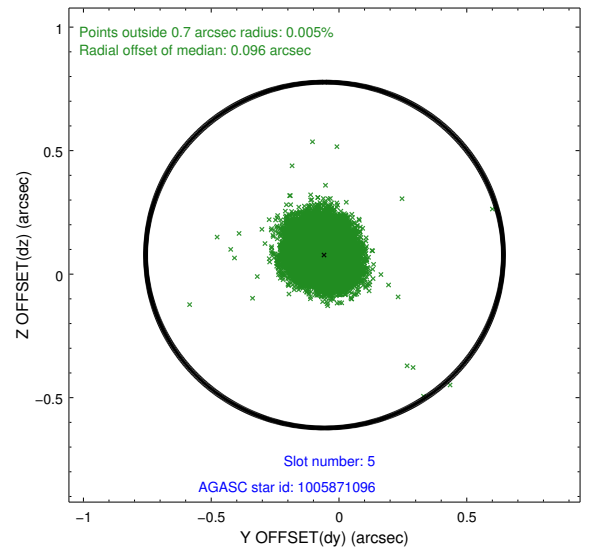
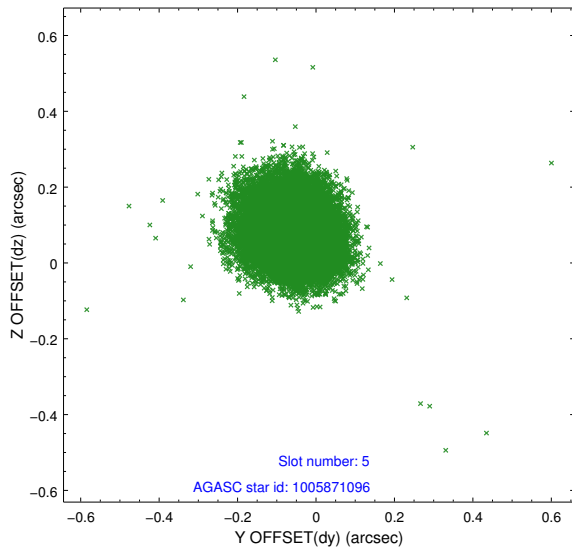
2.4.1 Slot 3



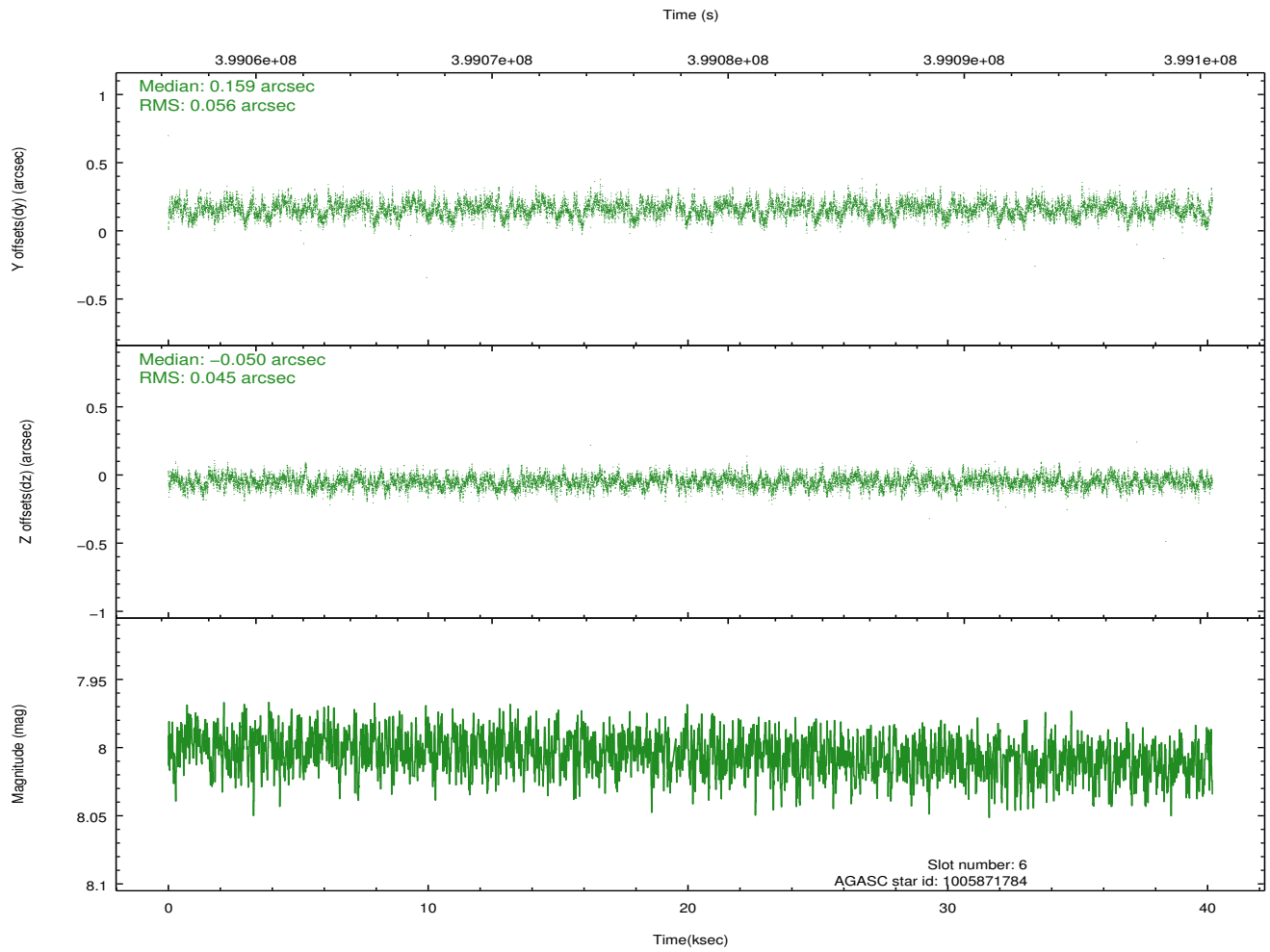
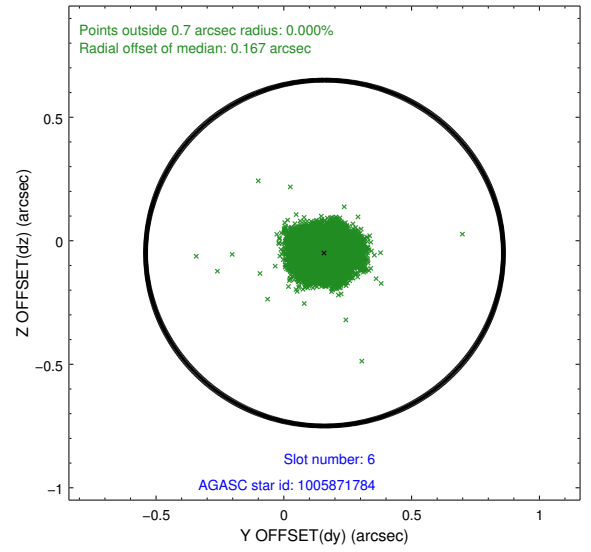
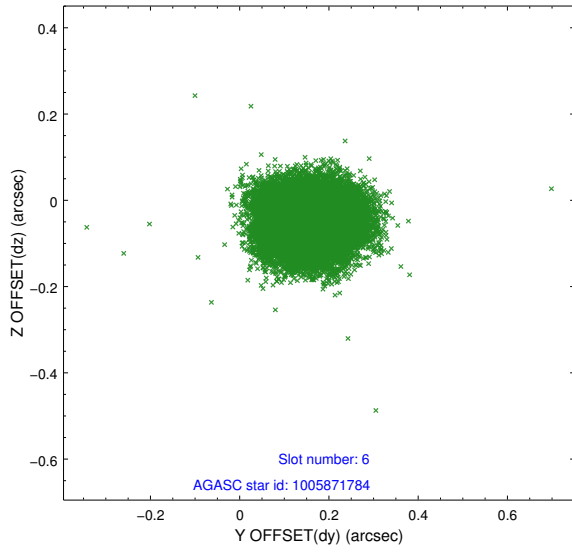
2.4.2 Slot 4



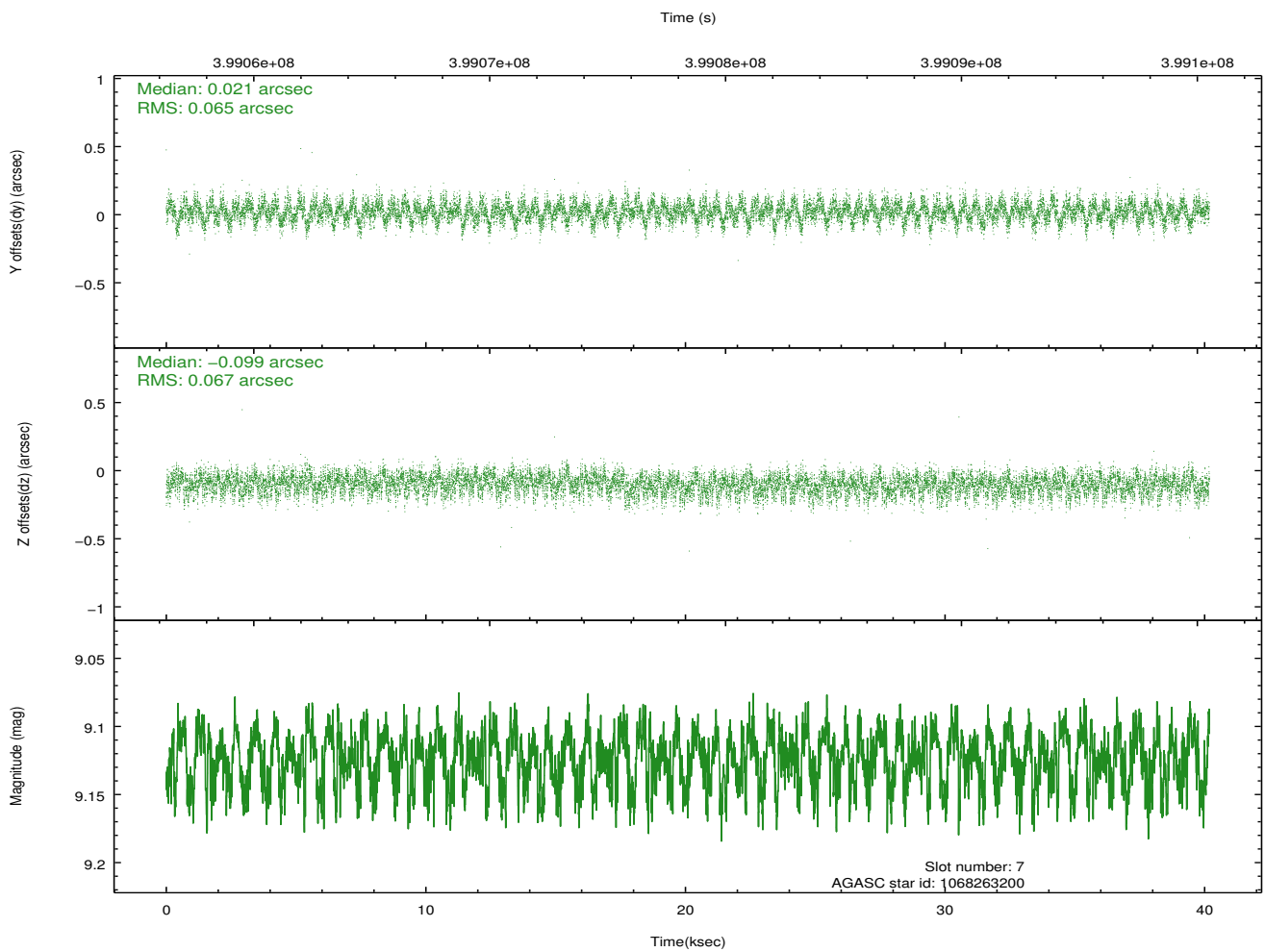
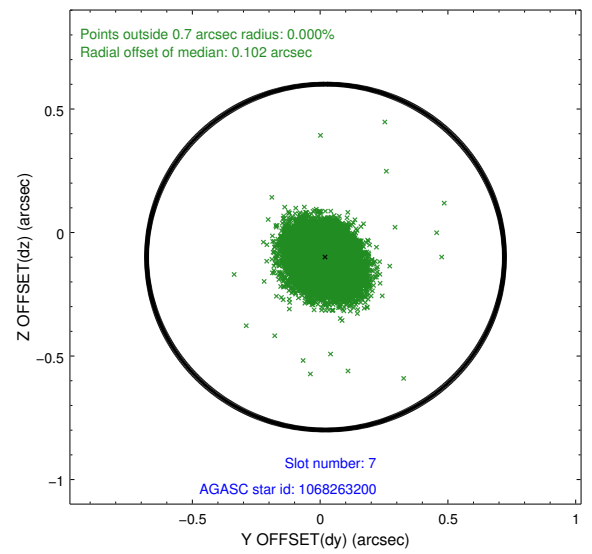
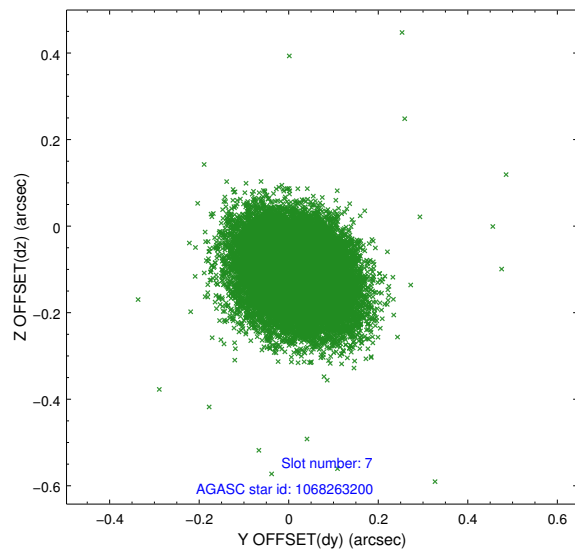
2.4.3 Slot 5



2.4.4 Slot 6

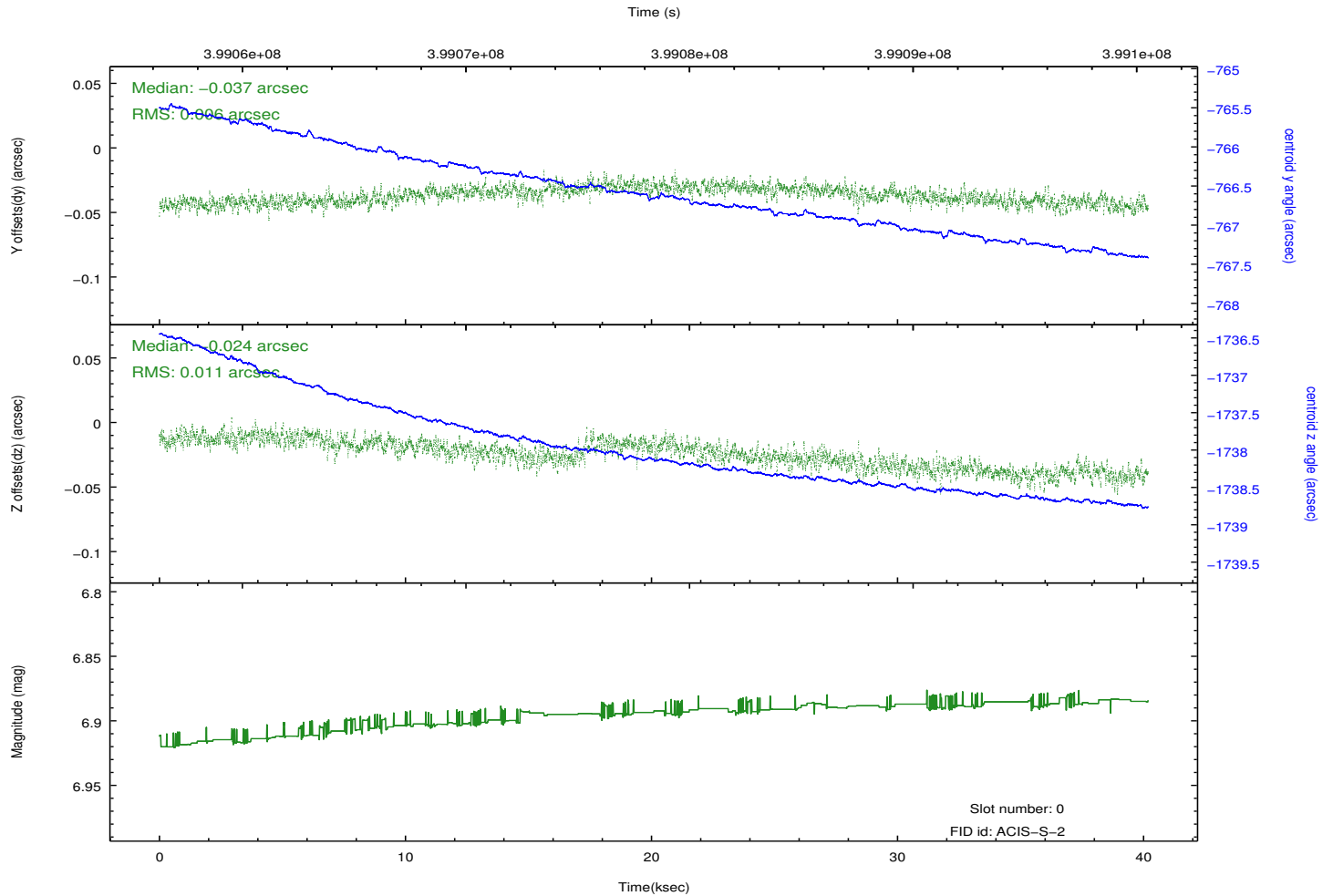
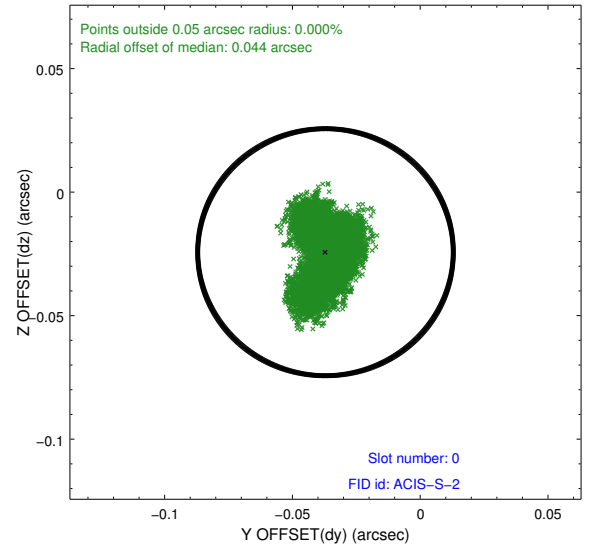
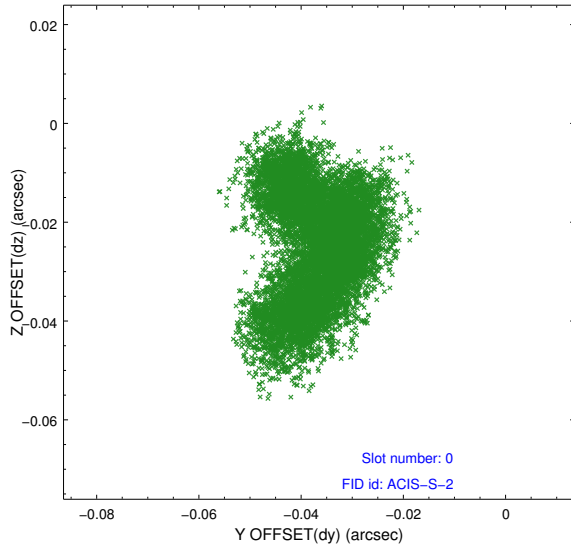


2.4.5 Slot 7

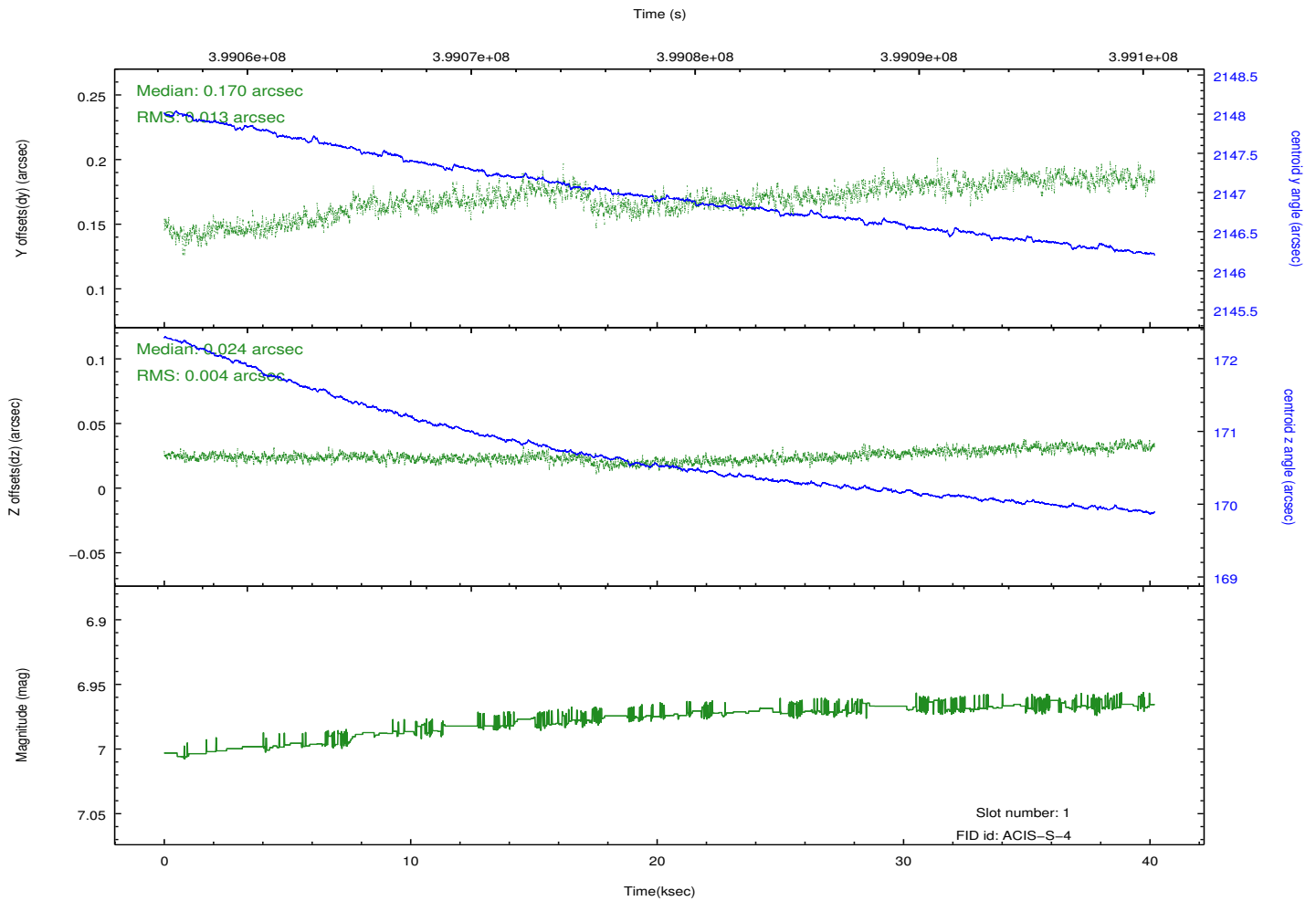
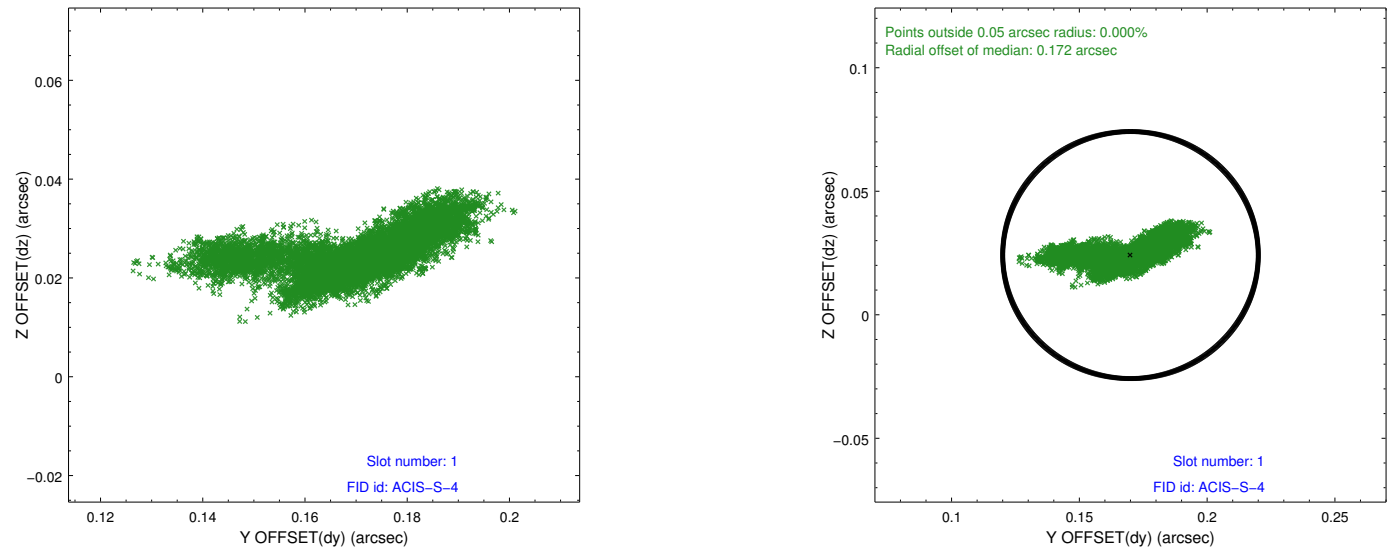


2.5 FID Slots

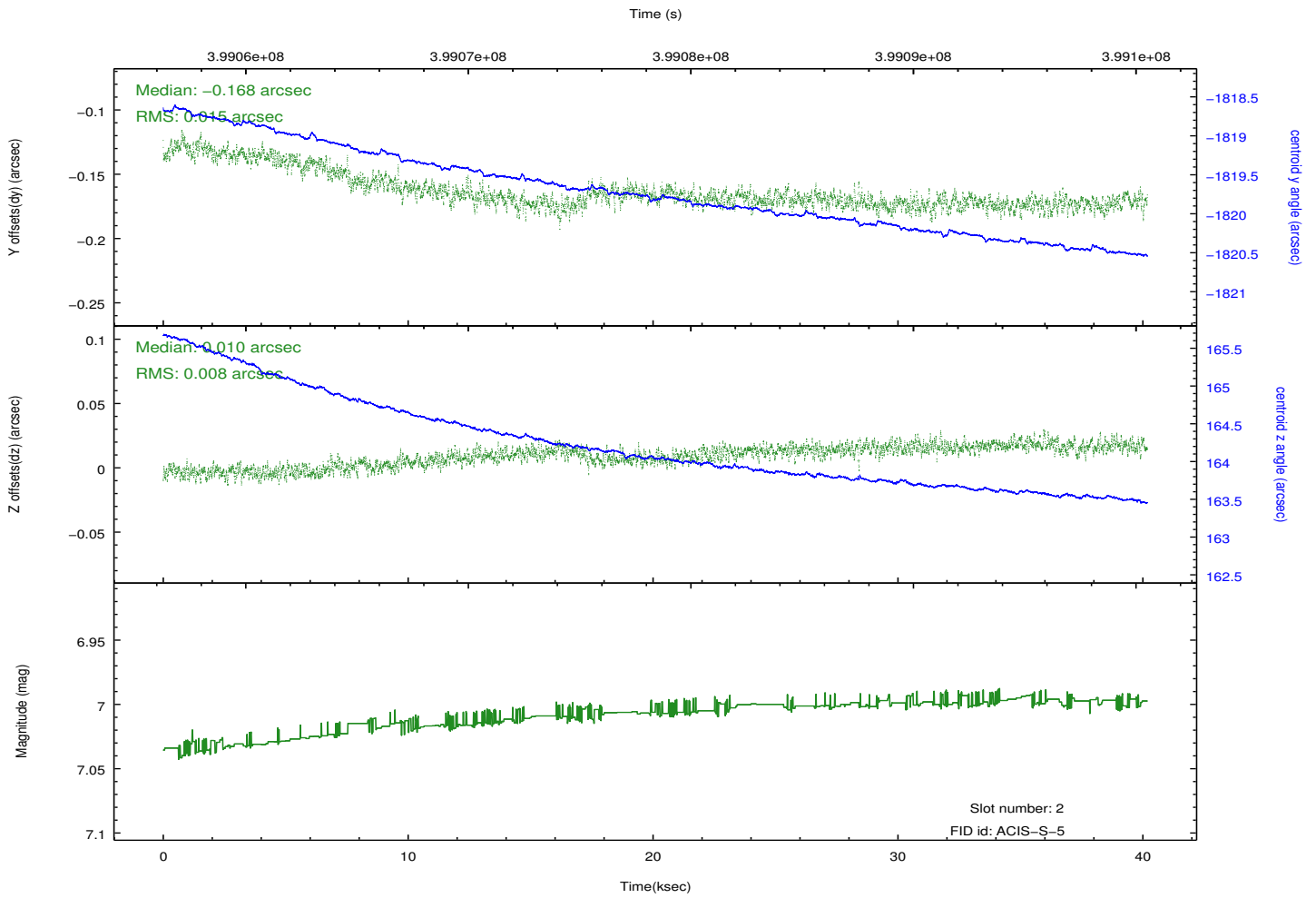
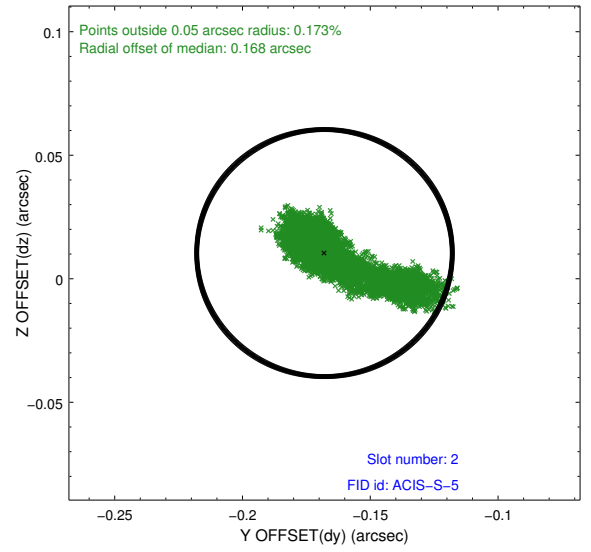
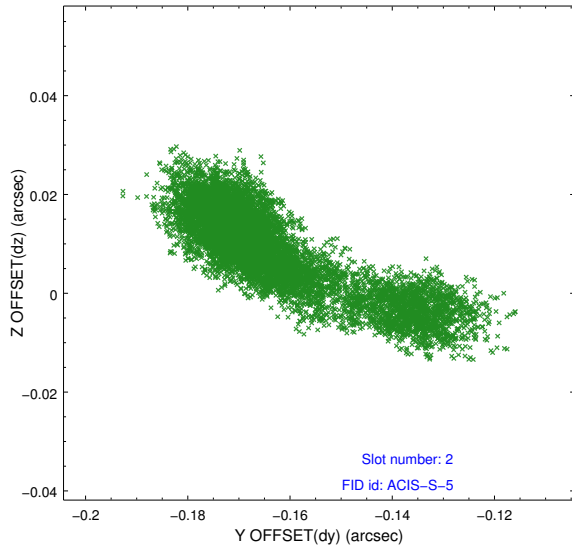
2.5.1 Slot 0



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)	2012.07.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.050280651629

A.2 Comments