

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 14378 - L2 Version 2
Chandra X-Ray Center

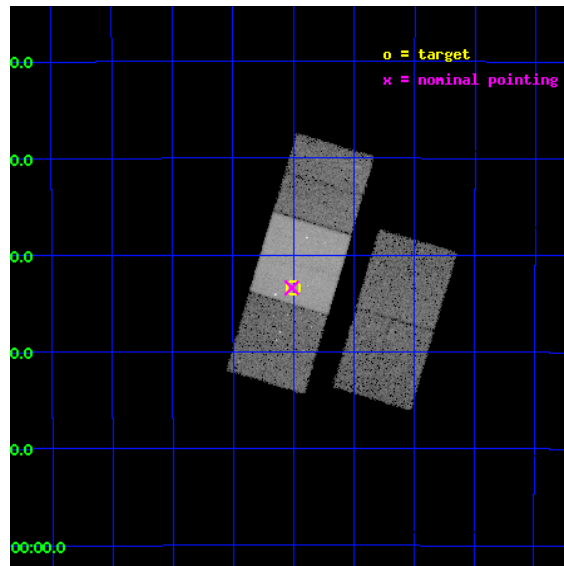
L2 Processing Date : Feb 29 2012

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

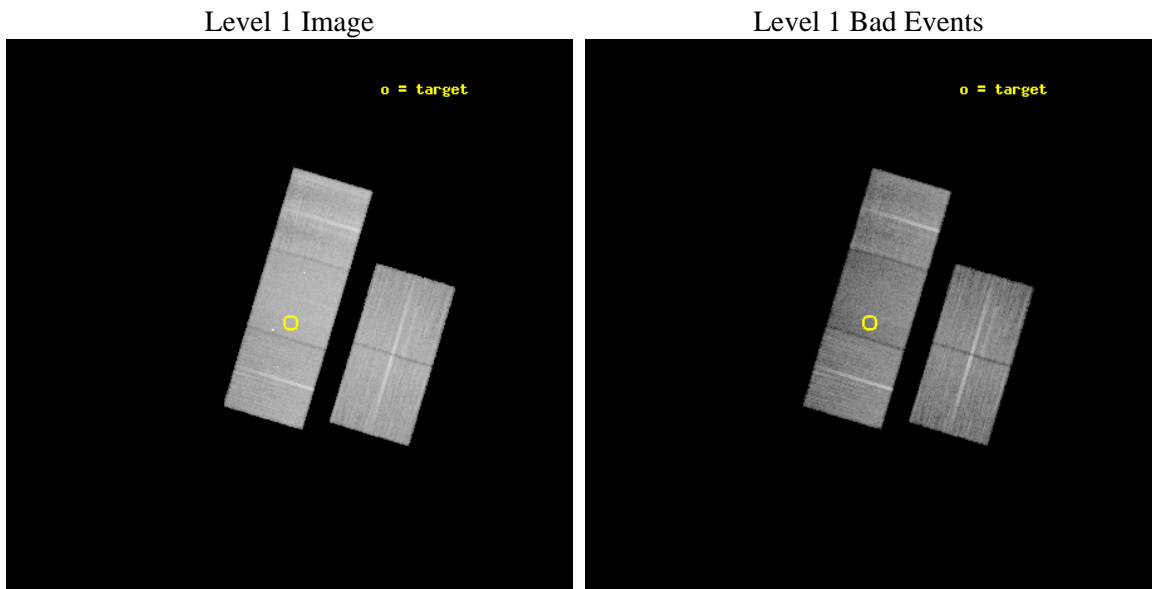
seq_num	401301	Sequence number
obs_id	14378	Observation id
title	Jets, hot spots and cocoon of the most powerful microquasar	Propos
observer	Dr Roberto Soria	Principal investigator
object	S26 in NGC 7793	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	359.499583	Observer's specified target RA [deg]
dec_targ	-32.555806	Observer's specified target Dec [deg]
ra_nom	359.50305242398	Nominal RA [deg]
dec_nom	-32.556620047782	Nominal Dec [deg]
roll_nom	286.65848673567	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25037.775031388	Sum of GTIs [s]
livetime	24710.638068061	Livetime [s]
ontime2	25037.610871375	Sum of GTIs [s]
ontime3	25031.411020756	Sum of GTIs [s]
ontime6	25037.733991385	Sum of GTIs [s]
ontime7	25037.775031388	Sum of GTIs [s]
ontime8	25037.651911378	Sum of GTIs [s]
l2events	149096	Number of level 2 events



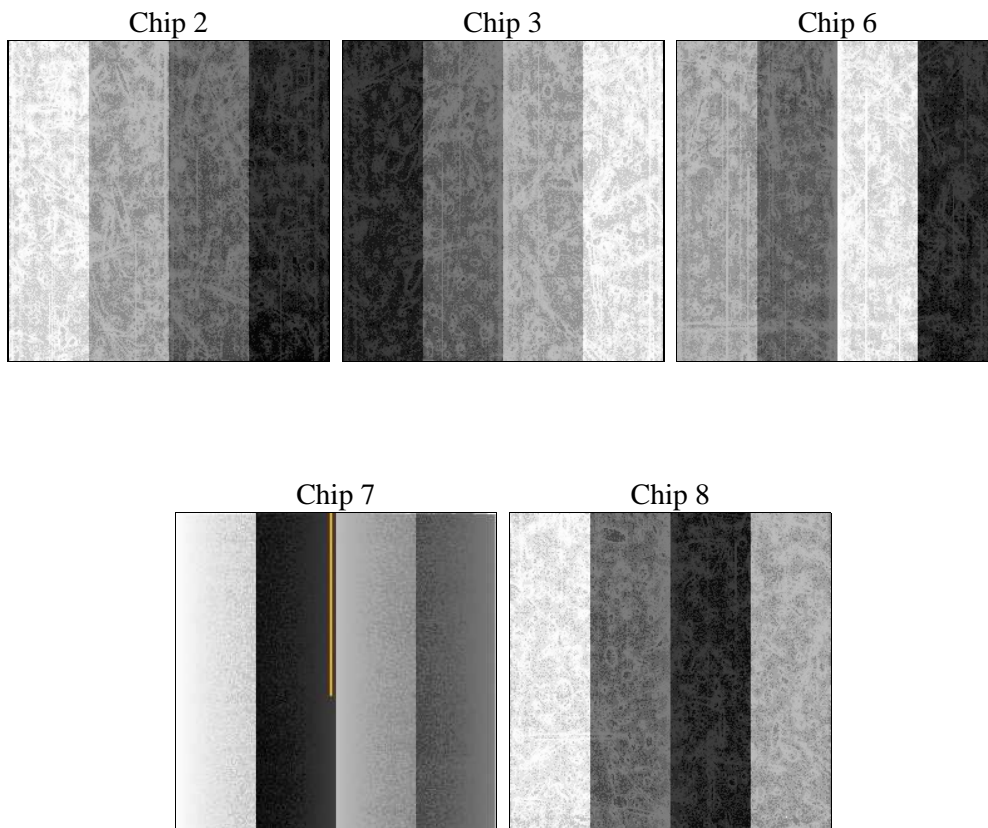
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	25037.775031388	Sum of GTIs [s]
caldbver	4.4.8	 	ontime2	25037.610871375	Sum of GTIs [s]
date	2012-02-29T15:15:12	Date and time of file creation	ontime3	25031.411020756	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	25037.733991385	Sum of GTIs [s]
			ontime7	25037.775031388	Sum of GTIs [s]
			ontime8	25037.651911378	Sum of GTIs [s]
			l1events	871556	Number of level 1 events

2.1.4 Events

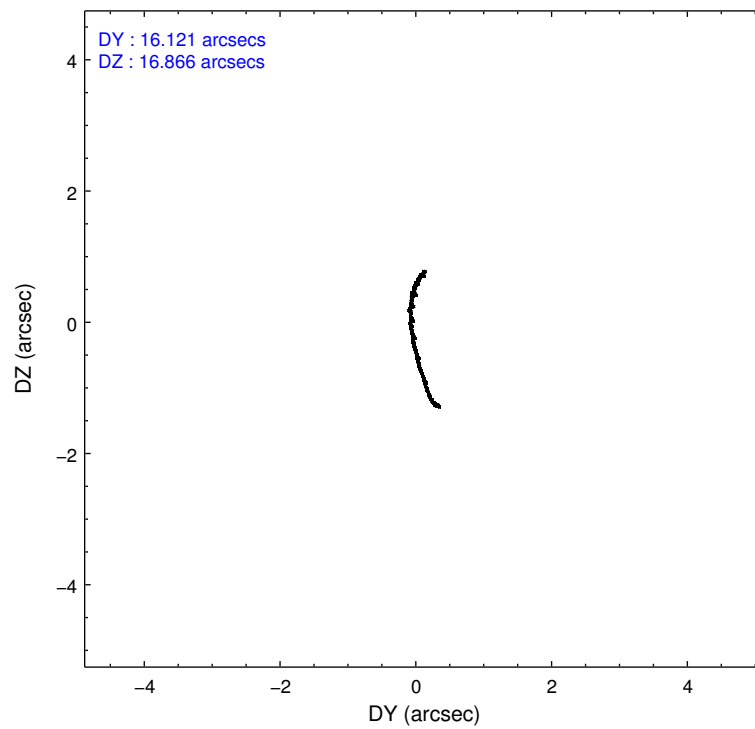
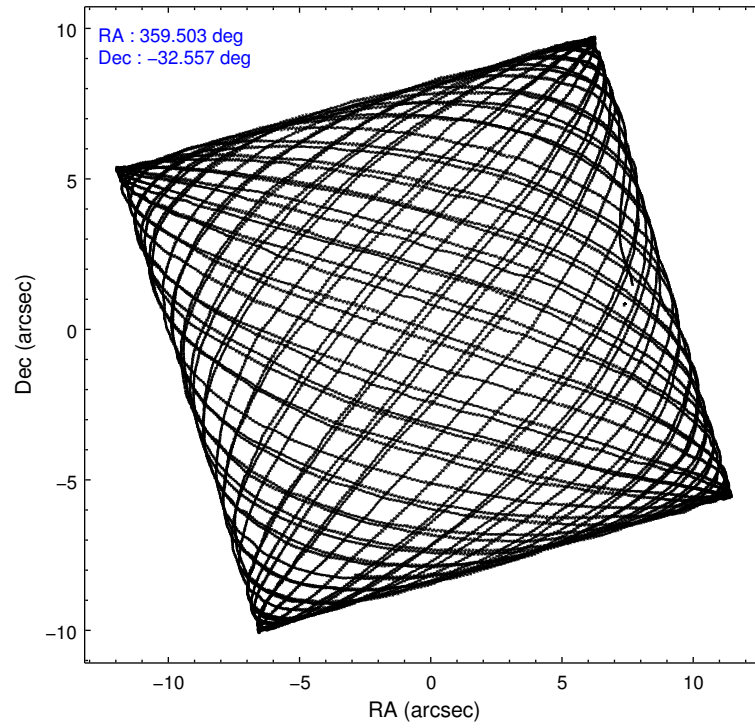
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	155978	152935	157669	198800	206174
rejected events	139306	136730	139110	110024	149775
rejected %	89%	89%	88%	55%	72%

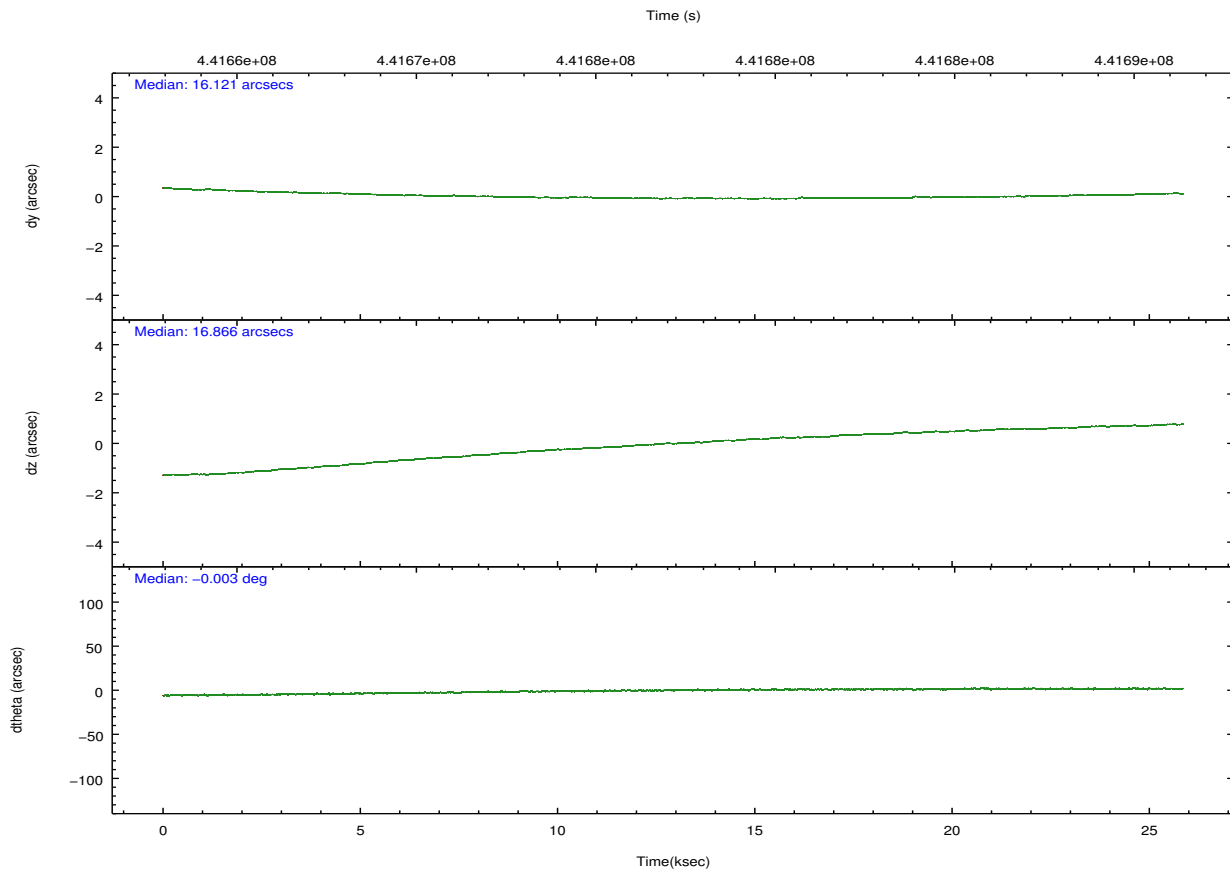
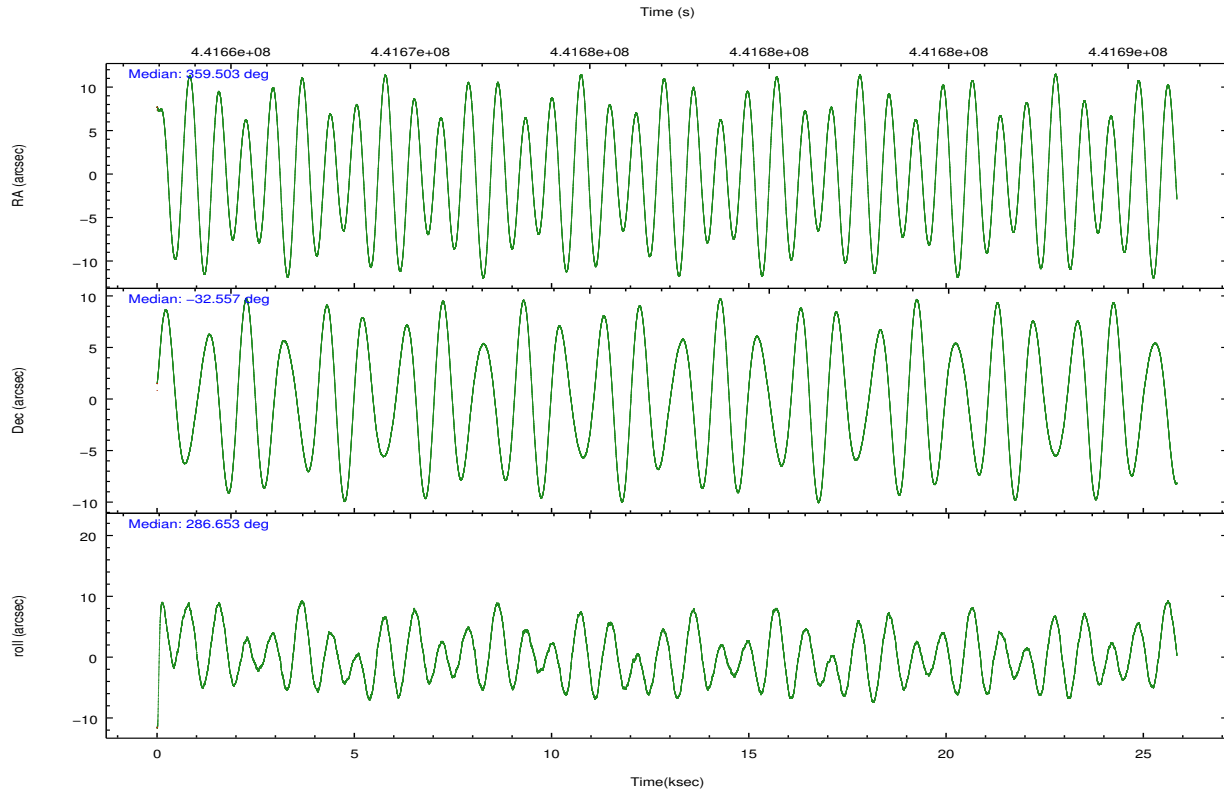
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	6217	5549	6623	8336	16772
	3%	3%	4%	4%	8%
grade 1 events	83	90	68	219	179
	0%	0%	0%	0%	0%
grade 2 events	3858	3522	4266	18252	12930
	2%	2%	2%	9%	6%
grade 3 events	1729	1806	1786	7602	6220
	1%	1%	1%	3%	3%
grade 4 events	1795	1814	1676	7440	5777
	1%	1%	1%	3%	2%
grade 5 events	6060	7453	7137	19833	10405
	3%	4%	4%	9%	5%
grade 6 events	3077	3517	4213	47169	14712
	1%	2%	2%	23%	7%
grade 7 events	133159	129184	131900	89949	139179
	85%	84%	83%	45%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	359.479144	359.5030524239785	Subarray requested	NONE	NONE
[deg] Pointing Dec	-32.538141	-32.55662004778246	Alternating exposures requested	N	N
[deg] Pointing Roll	286.489012	286.6584867356656	[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)	441665076.184000	441663247.41554			
Observation start date	2011-12-30T20:43:30	2011-12-30T20:14:07			
[s] Observation end time (MET)	441690076.184000	441690640.54199			
Observation end date	2011-12-31T03:40:10	2011-12-31T03:50:40			
Read mode	TIMED	TIMED			

2.3 Aspect



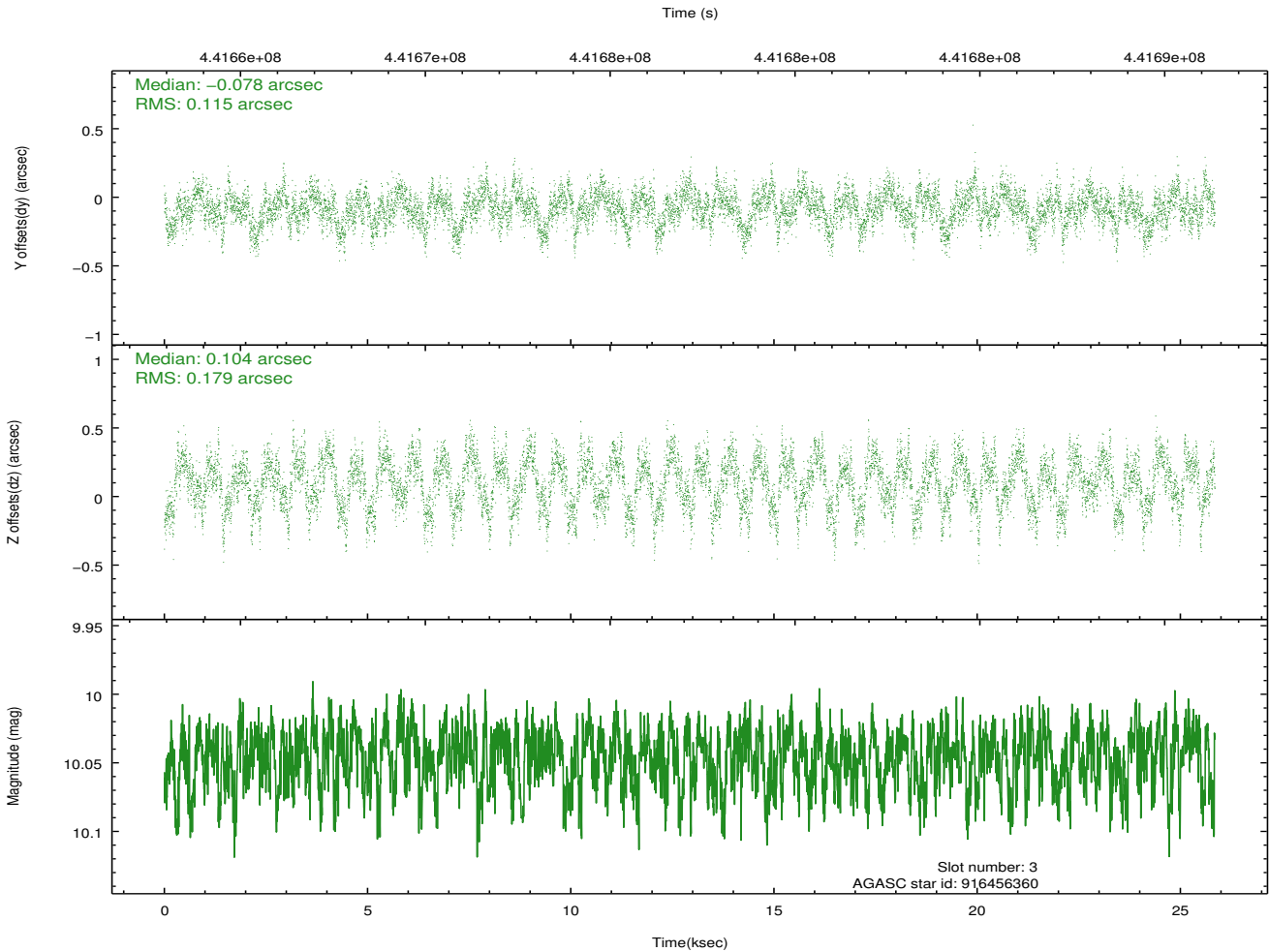
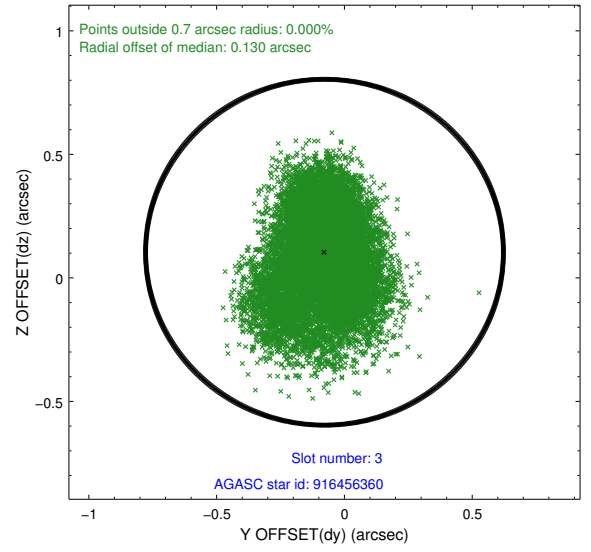
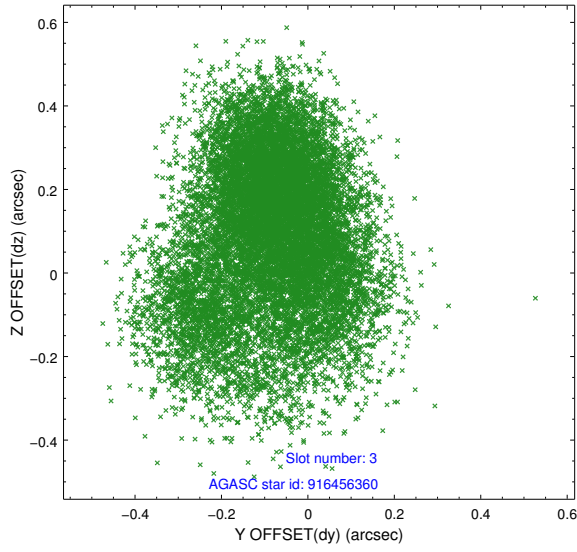


Slot Statistics

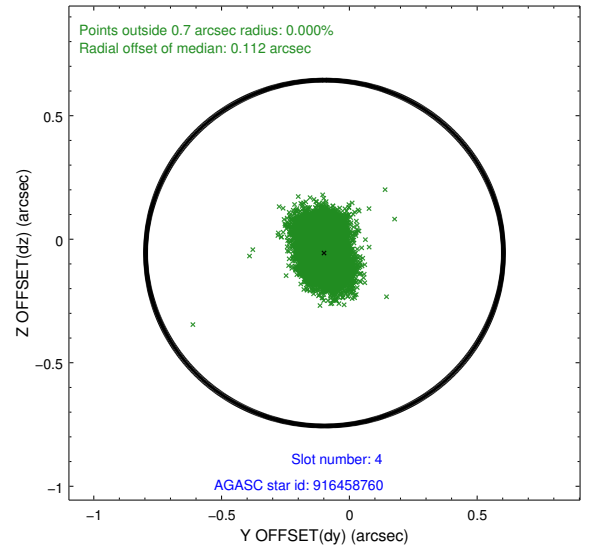
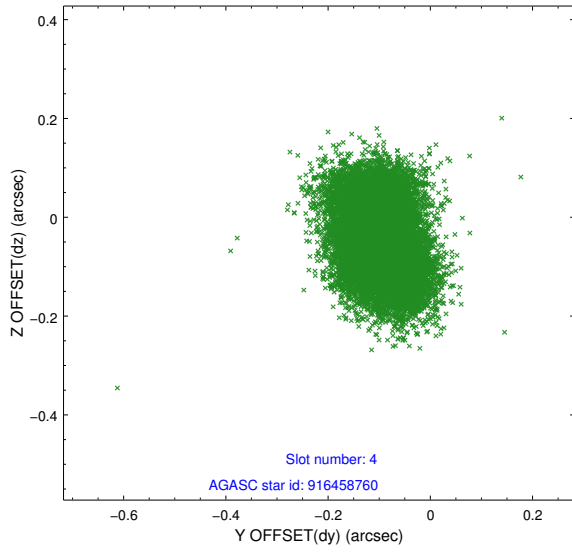
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.98	6305	-0.107	-0.040	0.021	0.038	0.000000	0.000000	-769.29	-1738.20
1	FID	ACIS-S-4	7.07	6304	0.230	0.062	0.007	0.013	0.000000	0.000000	2144.31	170.22
2	FID	ACIS-S-5	7.11	6303	-0.155	-0.014	0.020	0.036	0.000000	0.000000	-1822.01	164.00
3	GUIDE	916456360	10.05	12591	-0.078	0.104	0.228	0.371	0.174983	-32.558535	676.45	2001.15
4	GUIDE	916458760	8.67	12604	-0.097	-0.056	0.092	0.151	0.208450	-32.735965	1317.28	1913.41
5	GUIDE	985533536	7.22	12610	0.056	-0.040	0.080	0.128	359.409808	-33.189108	2188.58	-864.23
6	GUIDE	985538384	9.31	12603	0.211	-0.064	0.123	0.203	359.535631	-33.132150	2099.56	-443.07
7	GUIDE	985137968	9.01	12592	-0.086	0.061	0.108	0.173	358.620671	-32.471818	-957.80	-2434.75

2.4 Star Slots

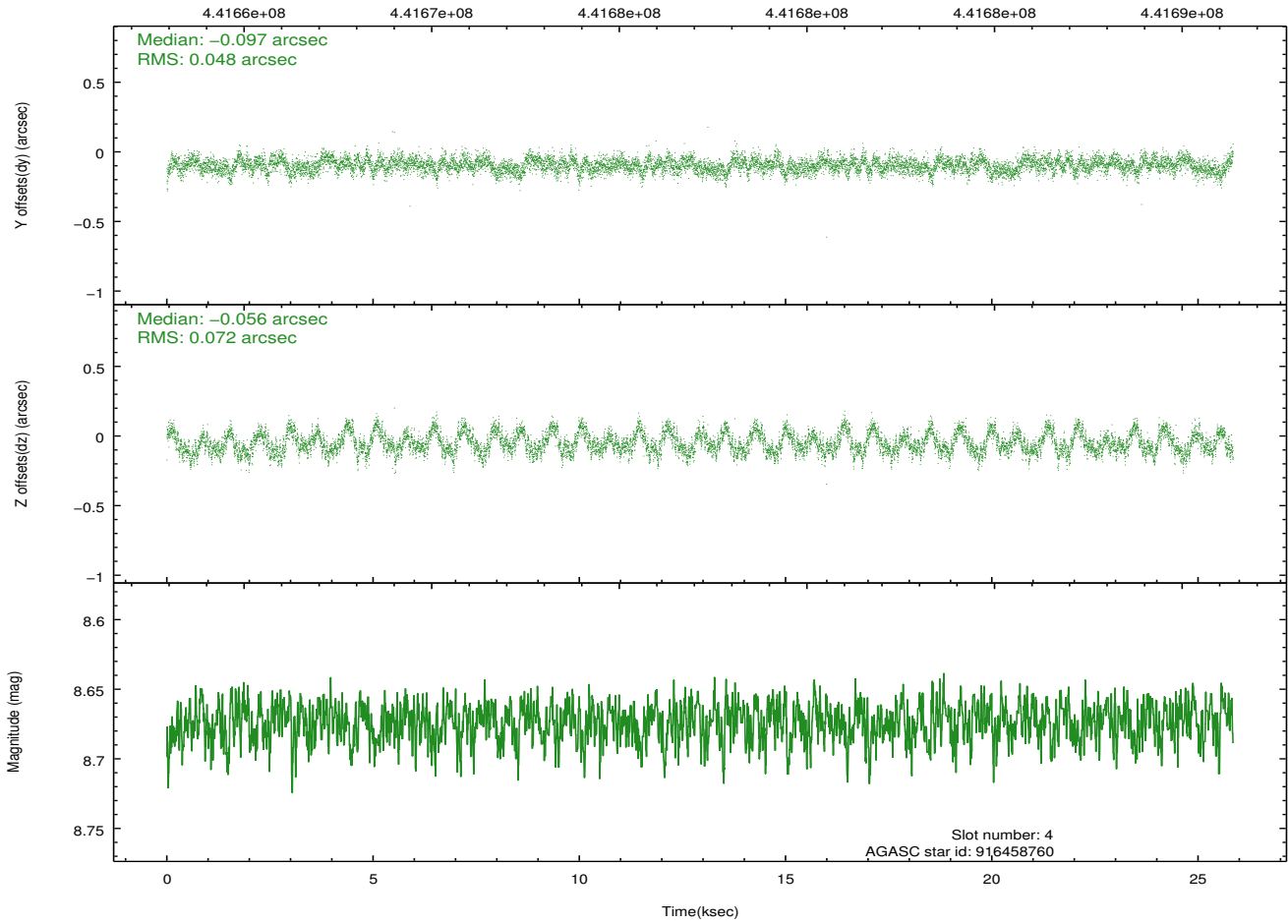
2.4.1 Slot 3



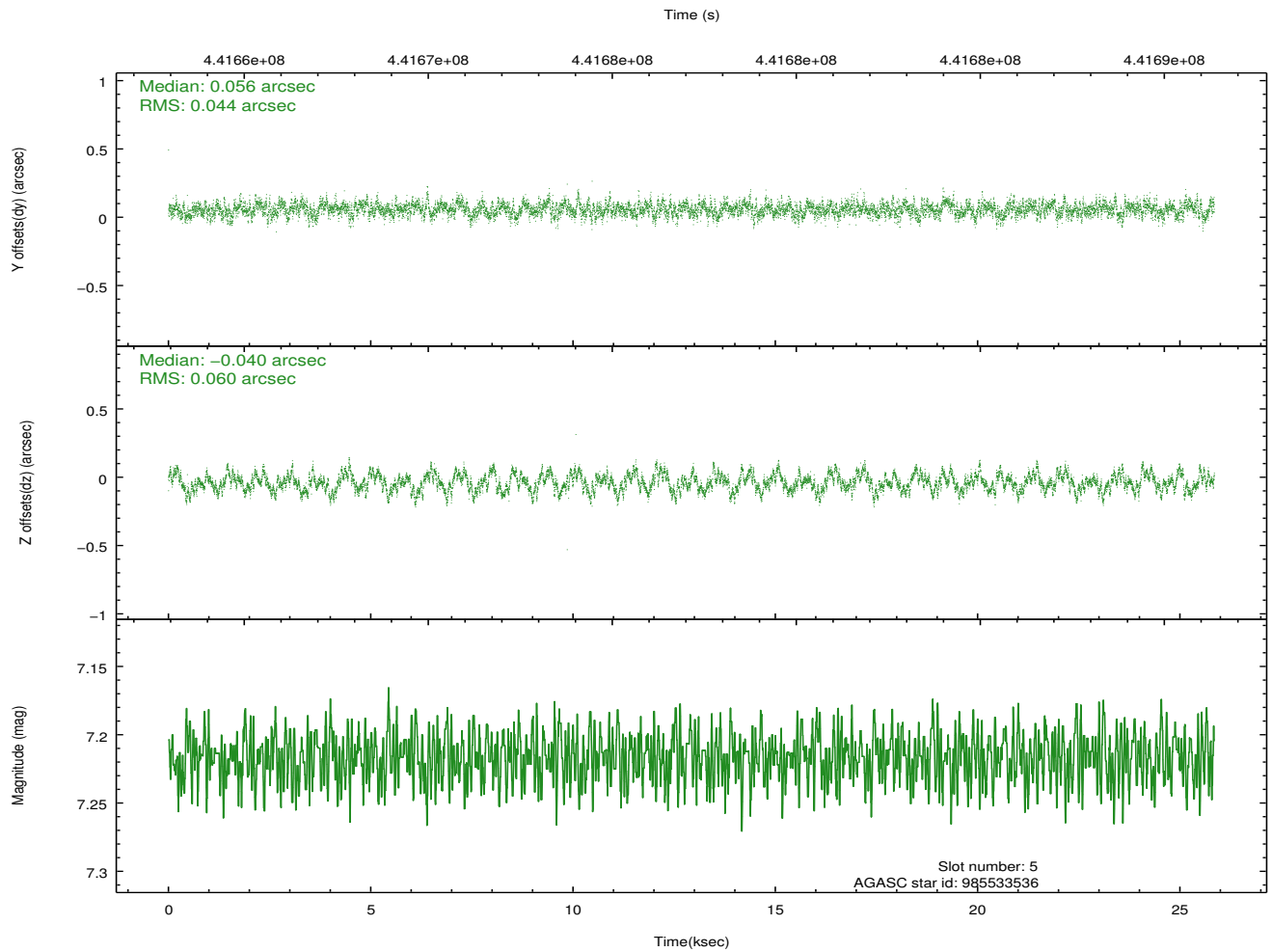
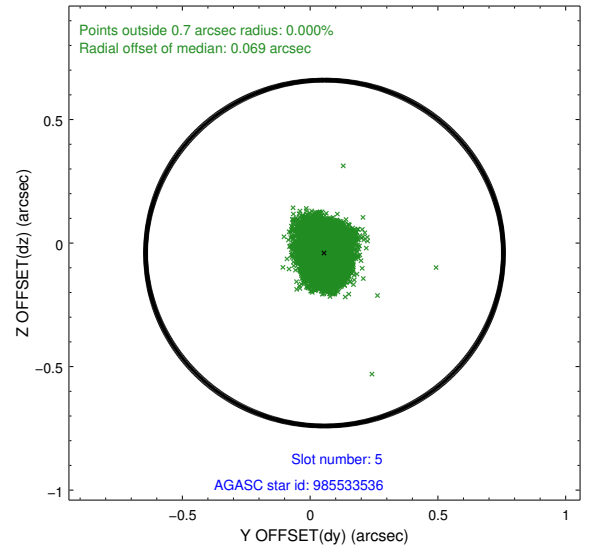
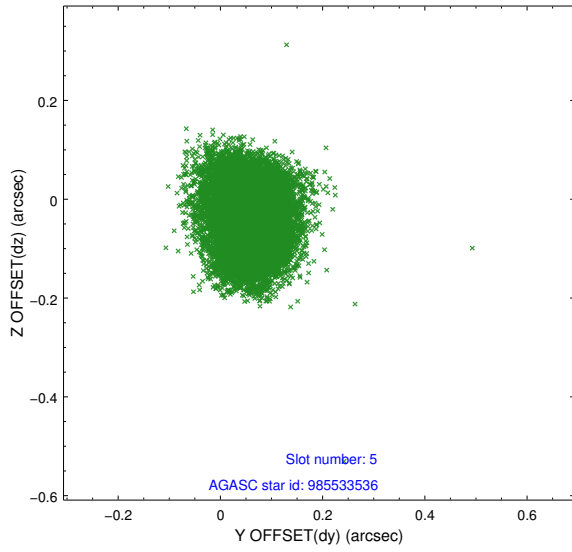
2.4.2 Slot 4



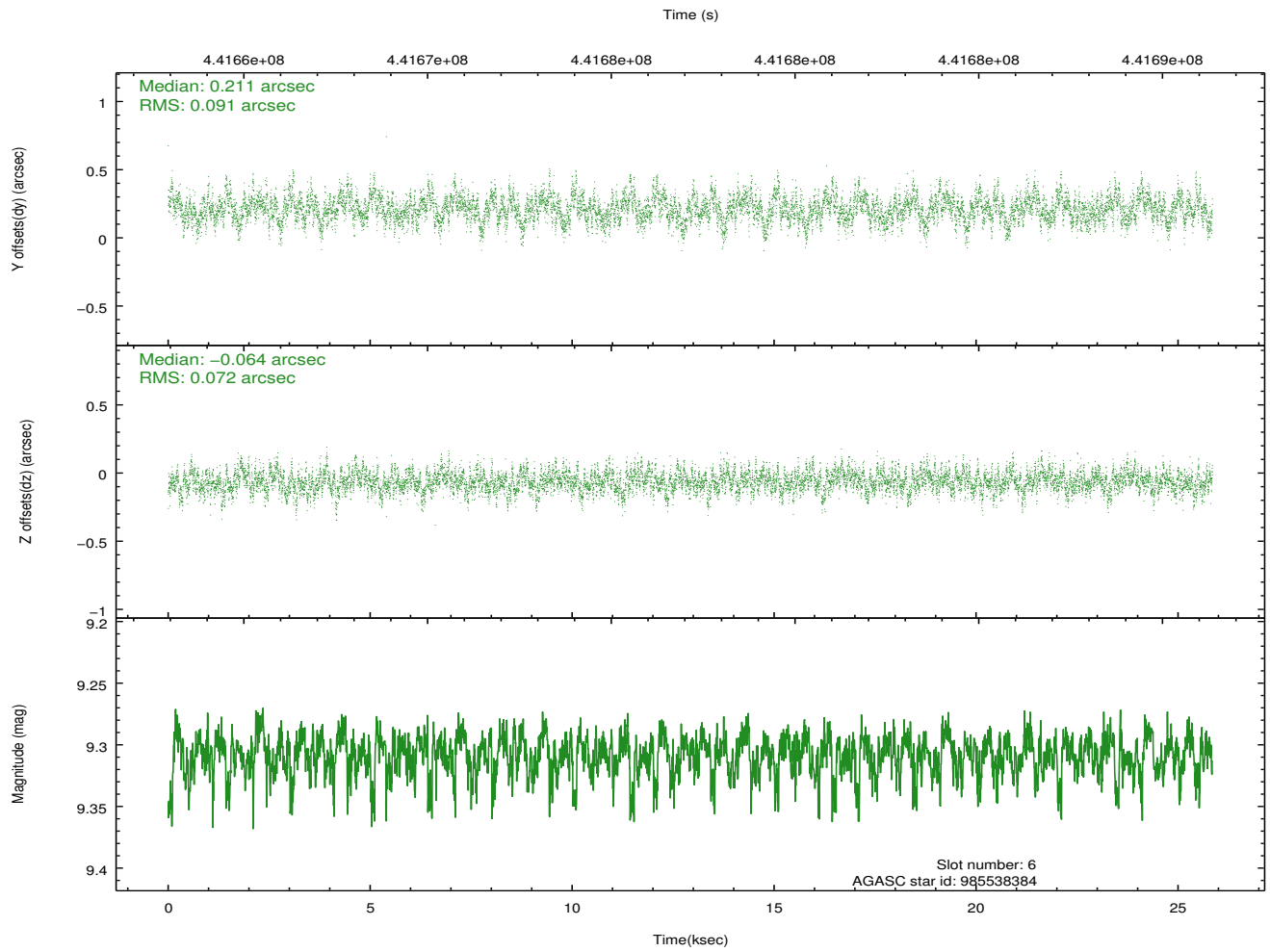
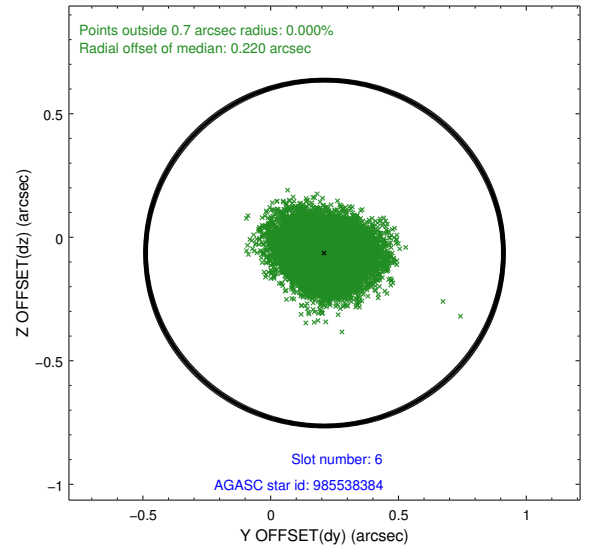
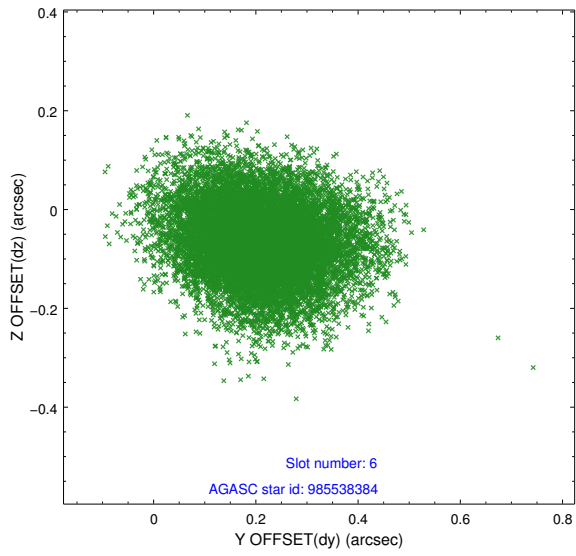
Time (s)



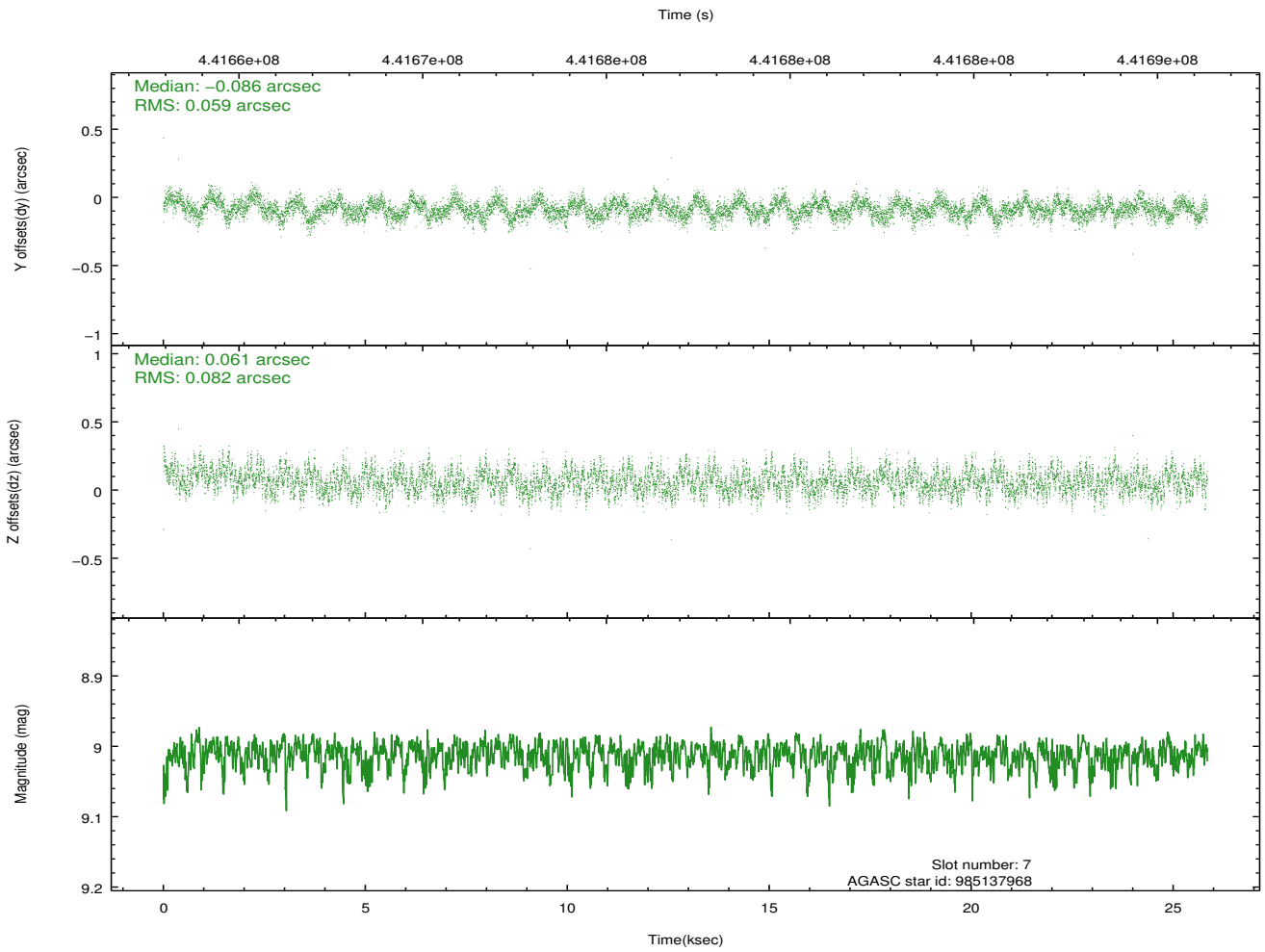
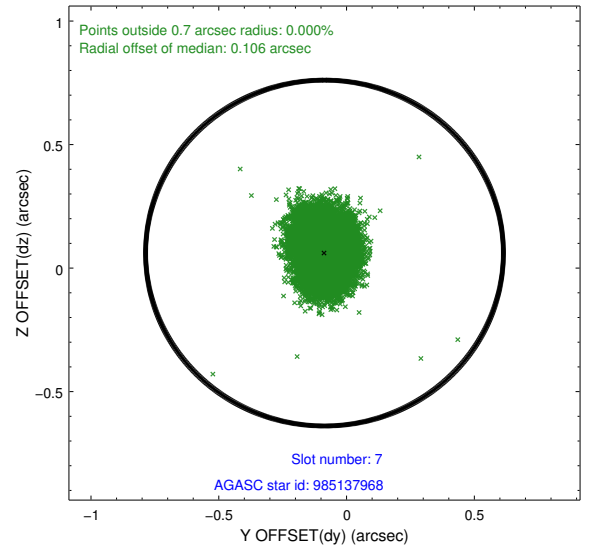
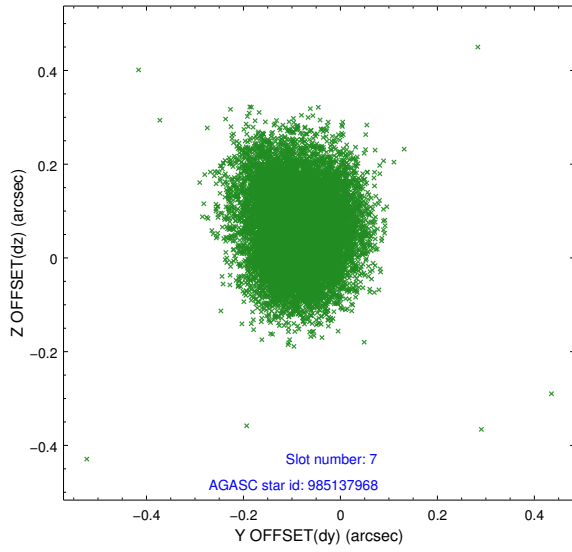
2.4.3 Slot 5



2.4.4 Slot 6

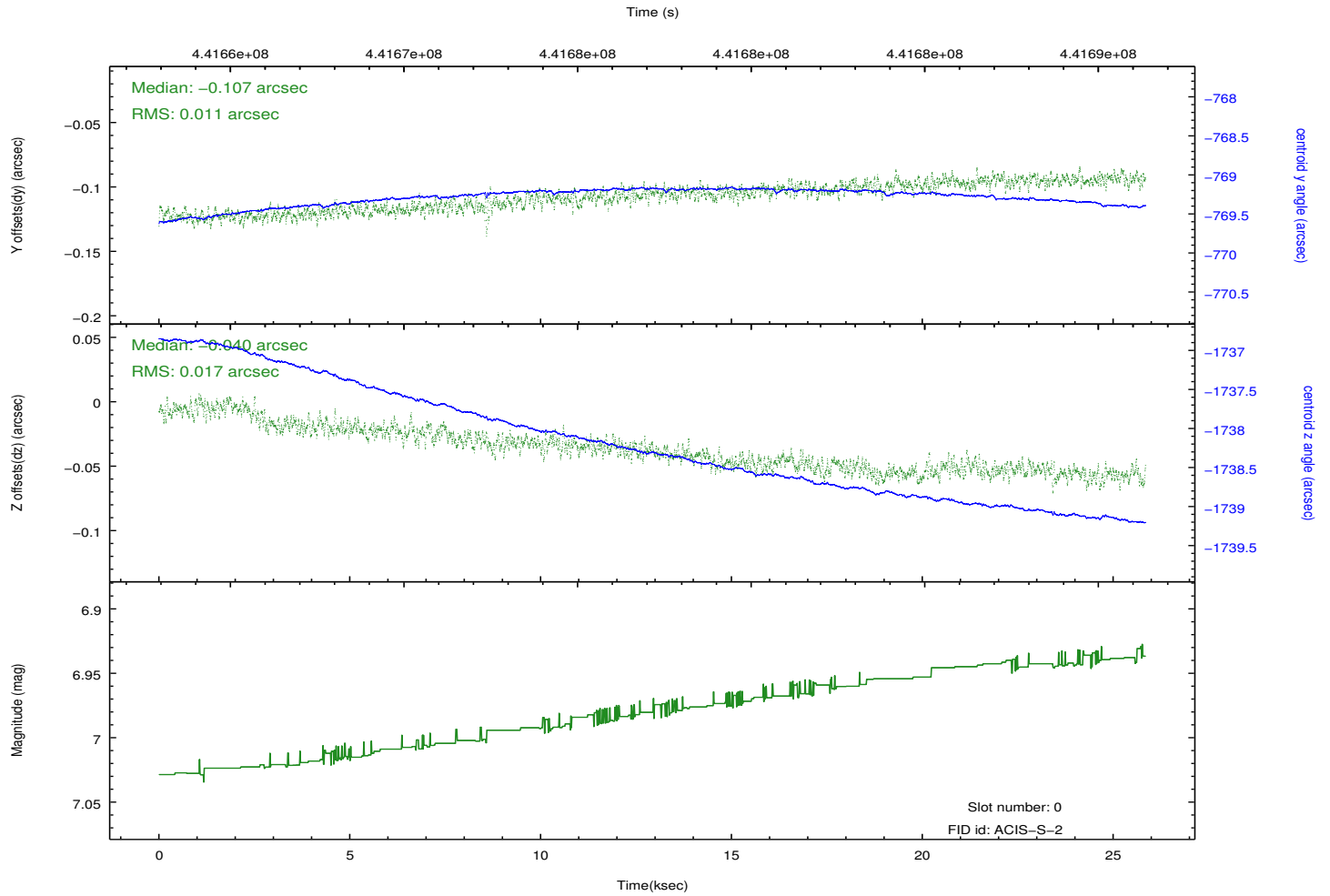
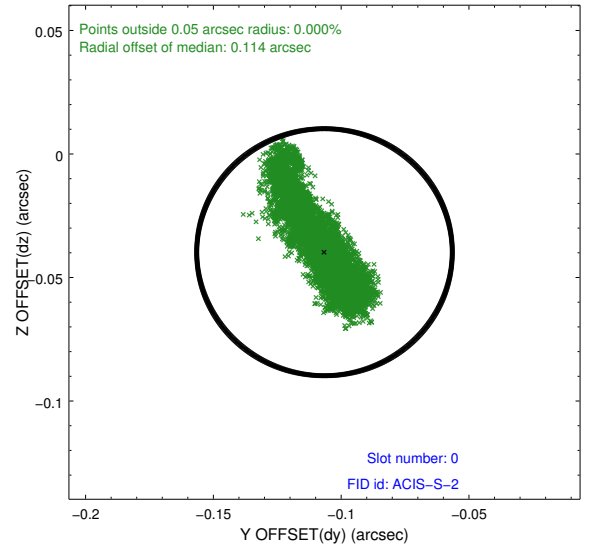
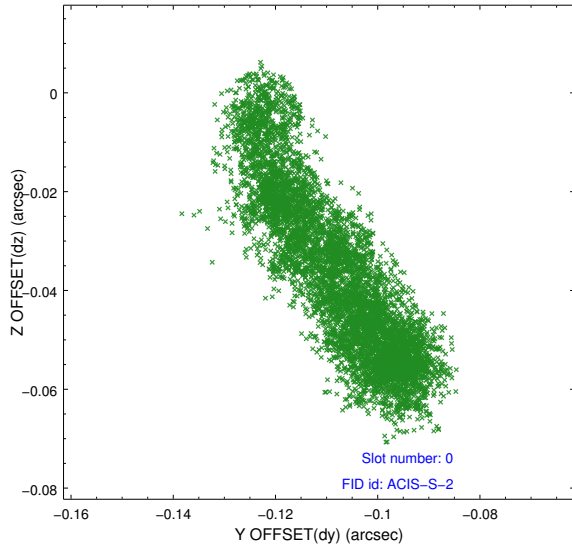


2.4.5 Slot 7

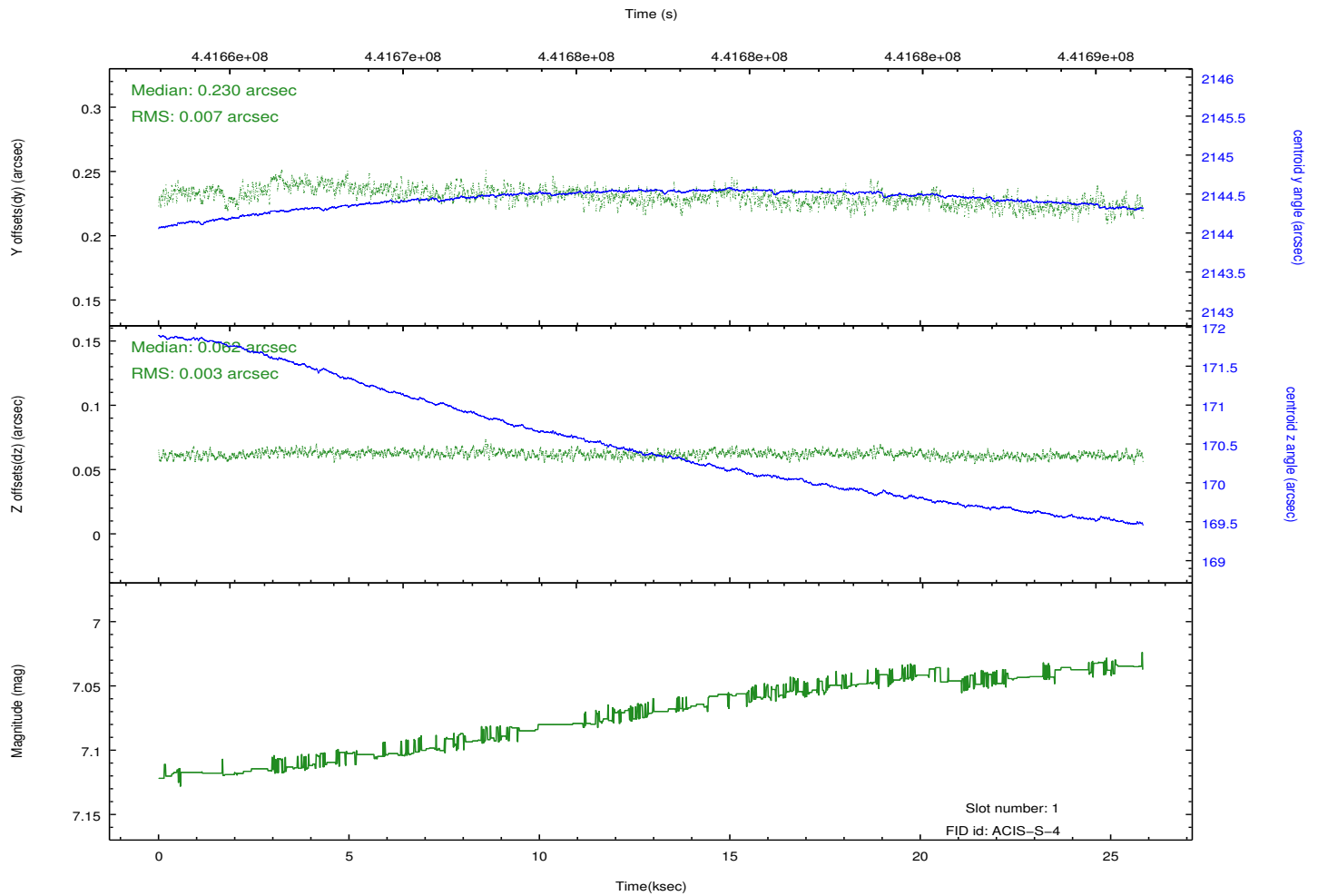
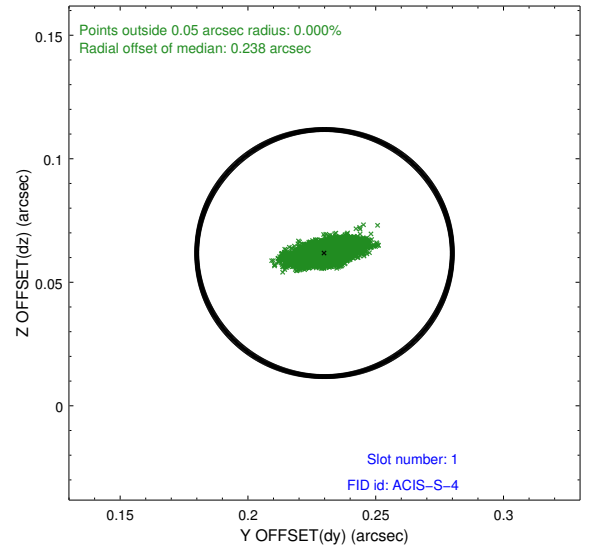
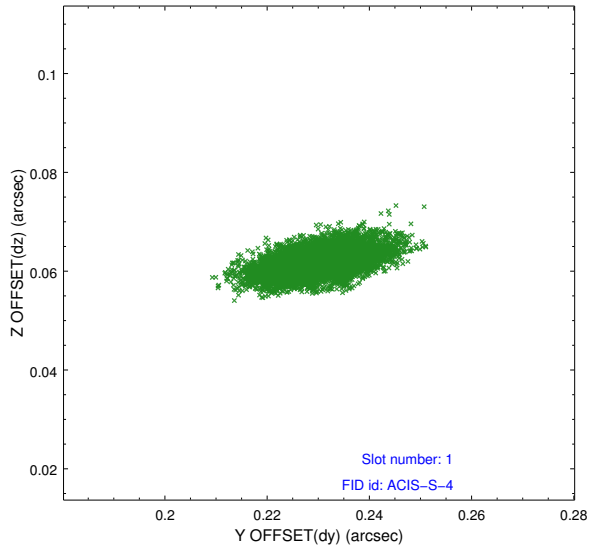


2.5 FID Slots

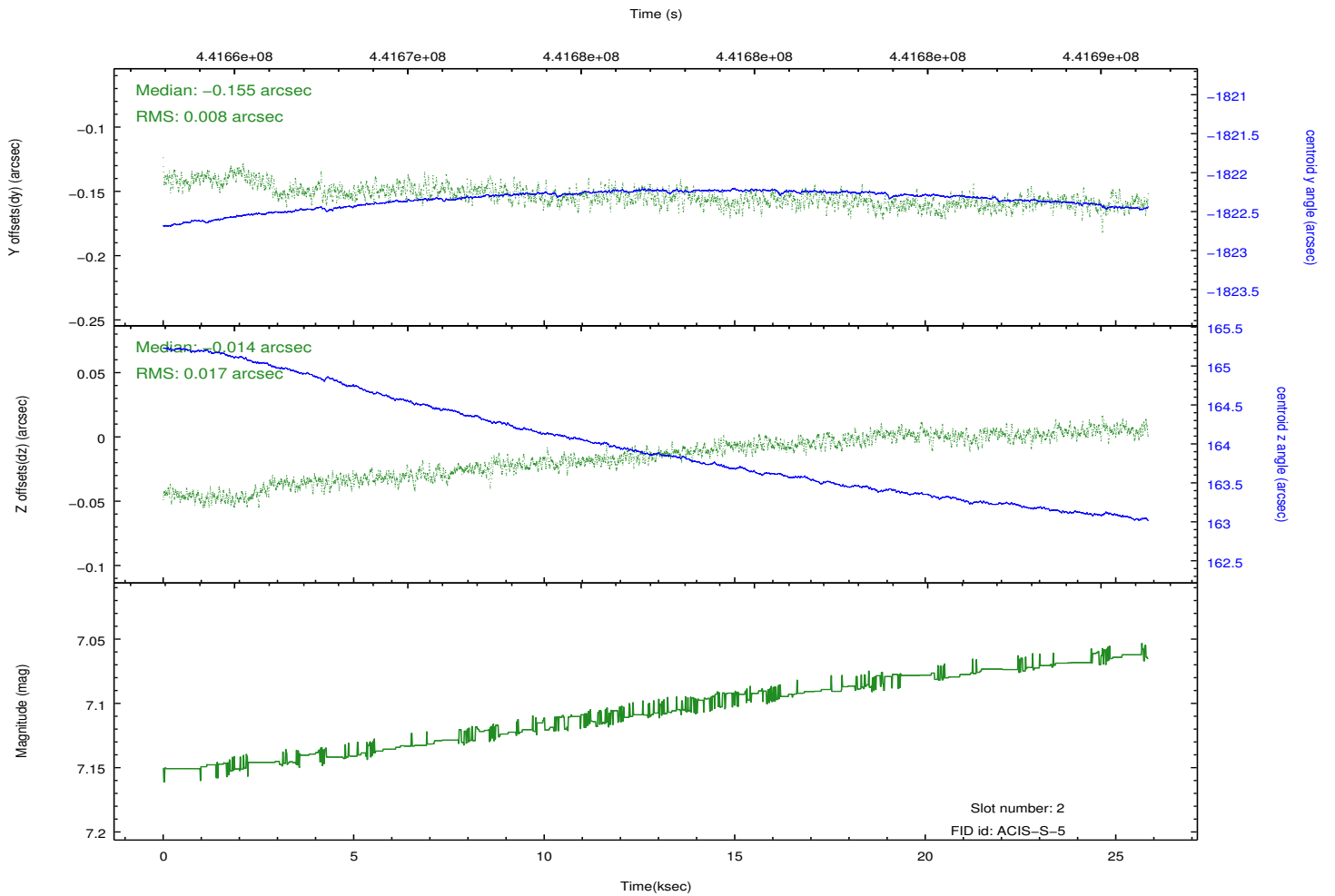
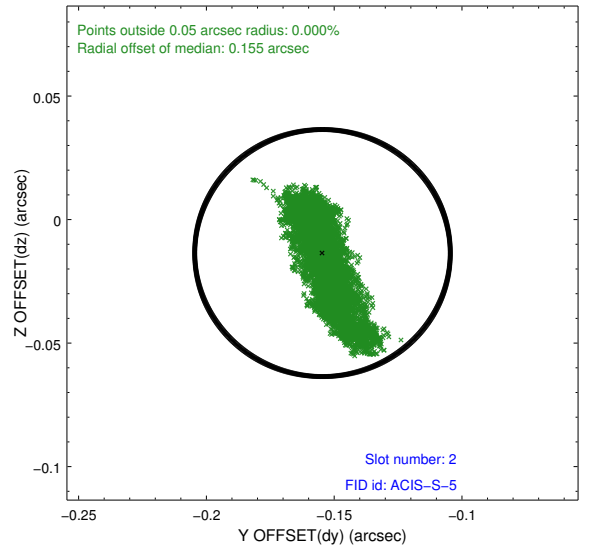
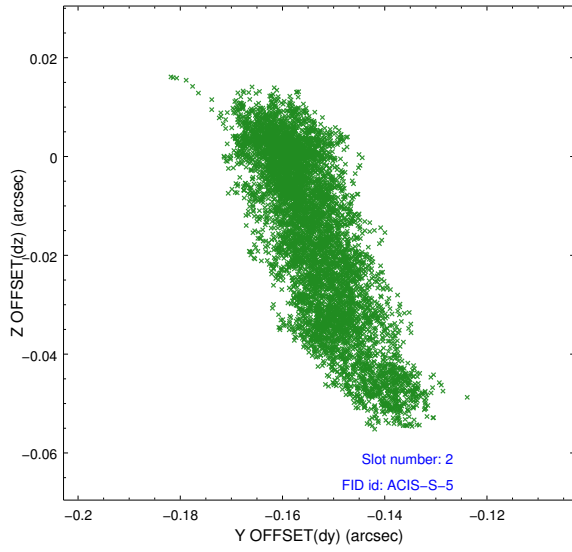
2.5.1 Slot 0



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)	2012.02.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.037775033236

A.2 Comments