

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13662 - L2 Version 2
Chandra X-Ray Center

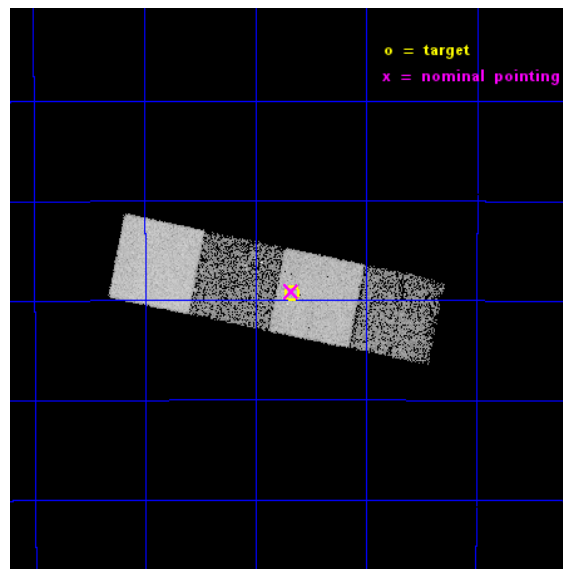
L2 Processing Date : Nov 27 2014

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1 Front

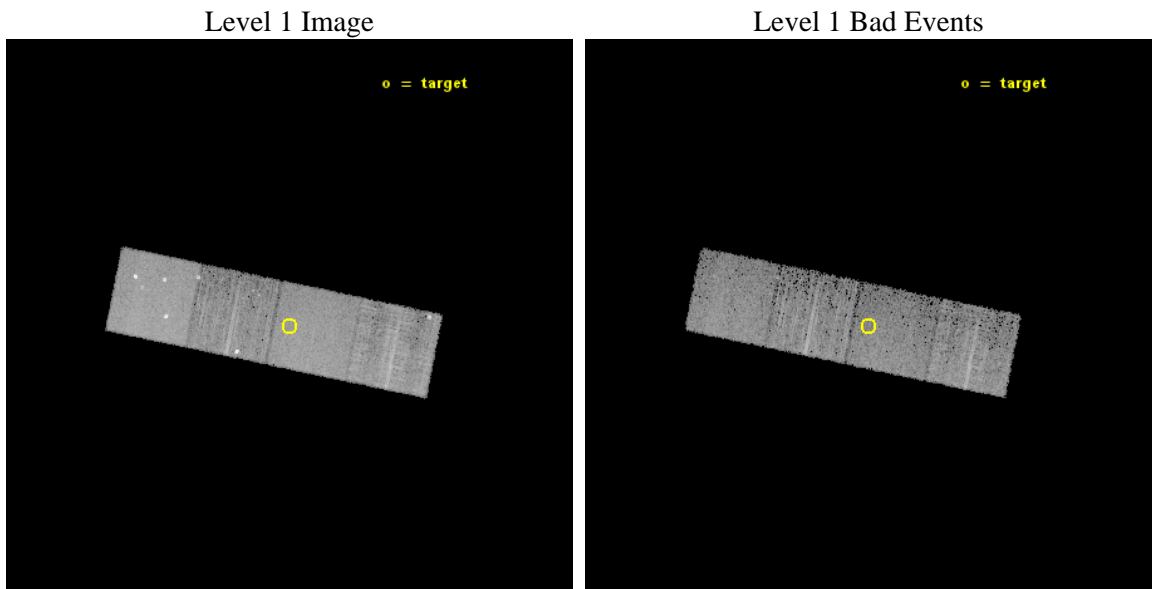
seq_num	200812	Sequence number
obs_id	13662	Observation id
title	Testing Star-Planet Interaction in Solar Analogs	Proposal title
observer	Brendan Miller	Principal investigator
object	HD 6434	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.1675	Observer's specified target RA [deg]
dec_targ	-39.488222	Observer's specified target Dec [deg]
ra_nom	16.168938170501	Nominal RA [deg]
dec_nom	-39.485379340136	Nominal Dec [deg]
roll_nom	11.471263430463	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9069.6504513621	Sum of GTIs [s]
livetime	8951.1487912356	Livetime [s]
ontime5	9069.6094113588	Sum of GTIs [s]
ontime6	9069.5683713555	Sum of GTIs [s]
ontime7	9069.6504513621	Sum of GTIs [s]
ontime8	9069.5273313522	Sum of GTIs [s]
l2events	71806	Number of level 2 events



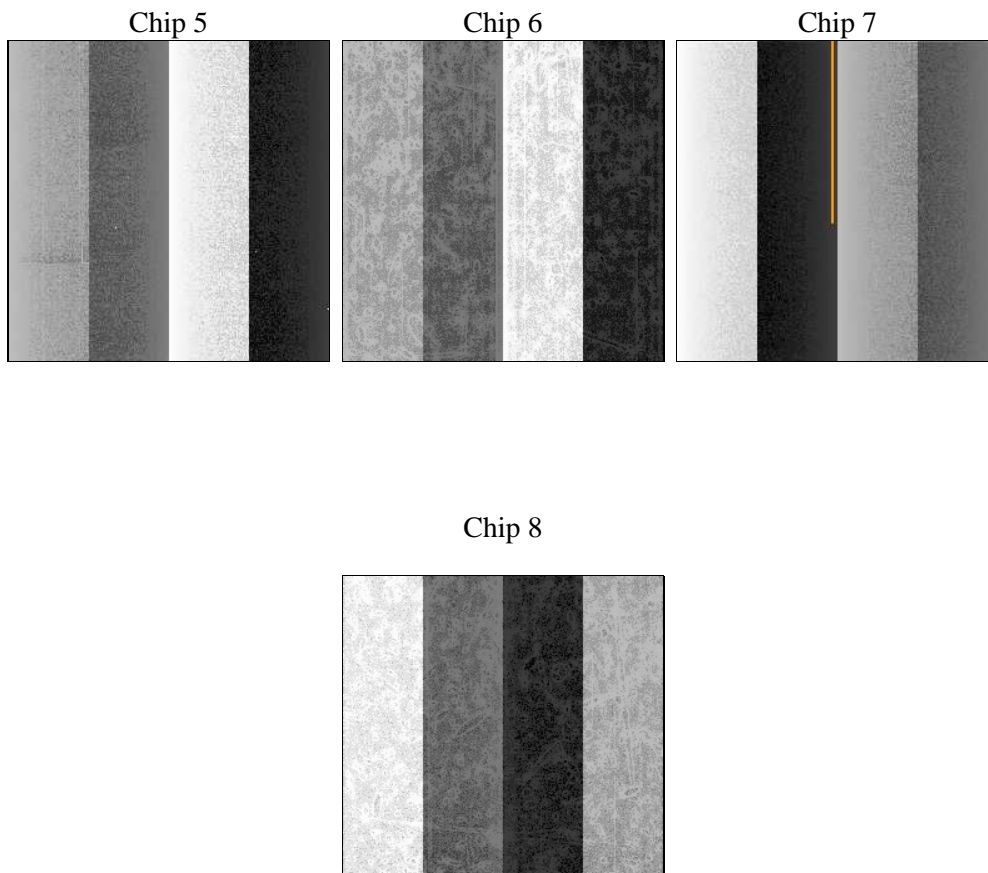
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	9069.6504513621	Sum of GTIs [s]
caldbver	4.6.4	 	ontime5	9069.6094113588	Sum of GTIs [s]
date	2014-11-27T16:38:38	Date and time of file creation	ontime6	9069.5683713555	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	9069.6504513621	Sum of GTIs [s]
			ontime8	9069.5273313522	Sum of GTIs [s]
			l1events	255880	Number of level 1 events

2.1.4 Events

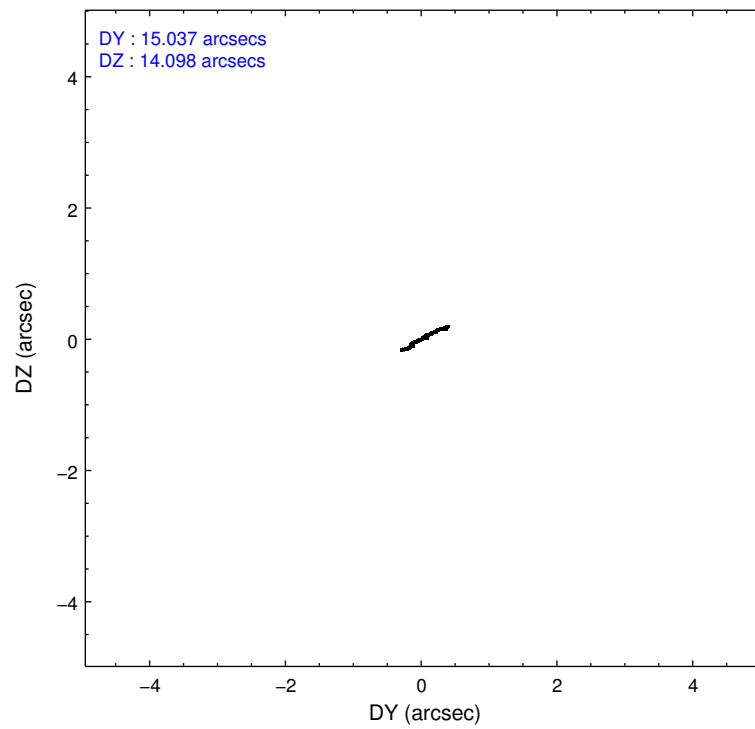
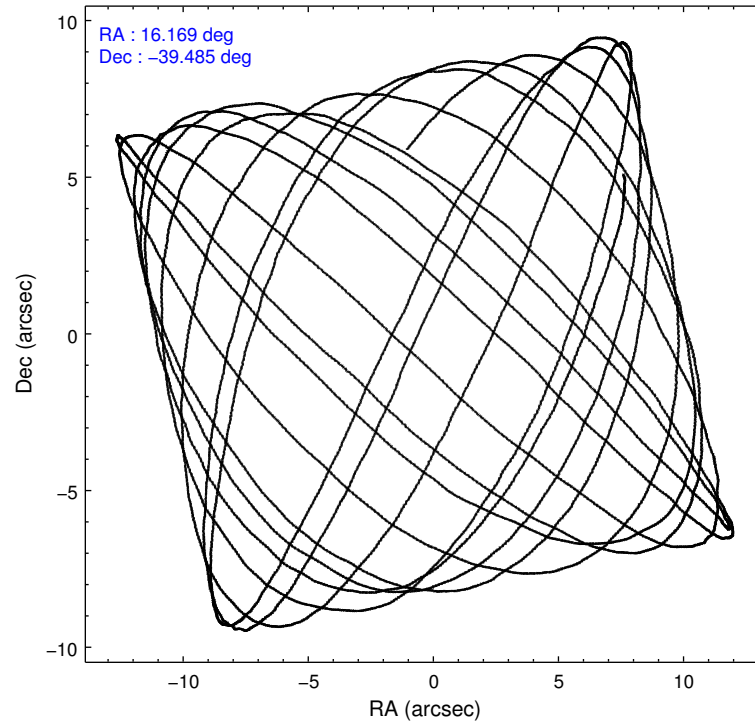
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	80914	49034	62662	63270
rejected events	39662	40625	35557	43969
rejected %	49%	82%	56%	69%

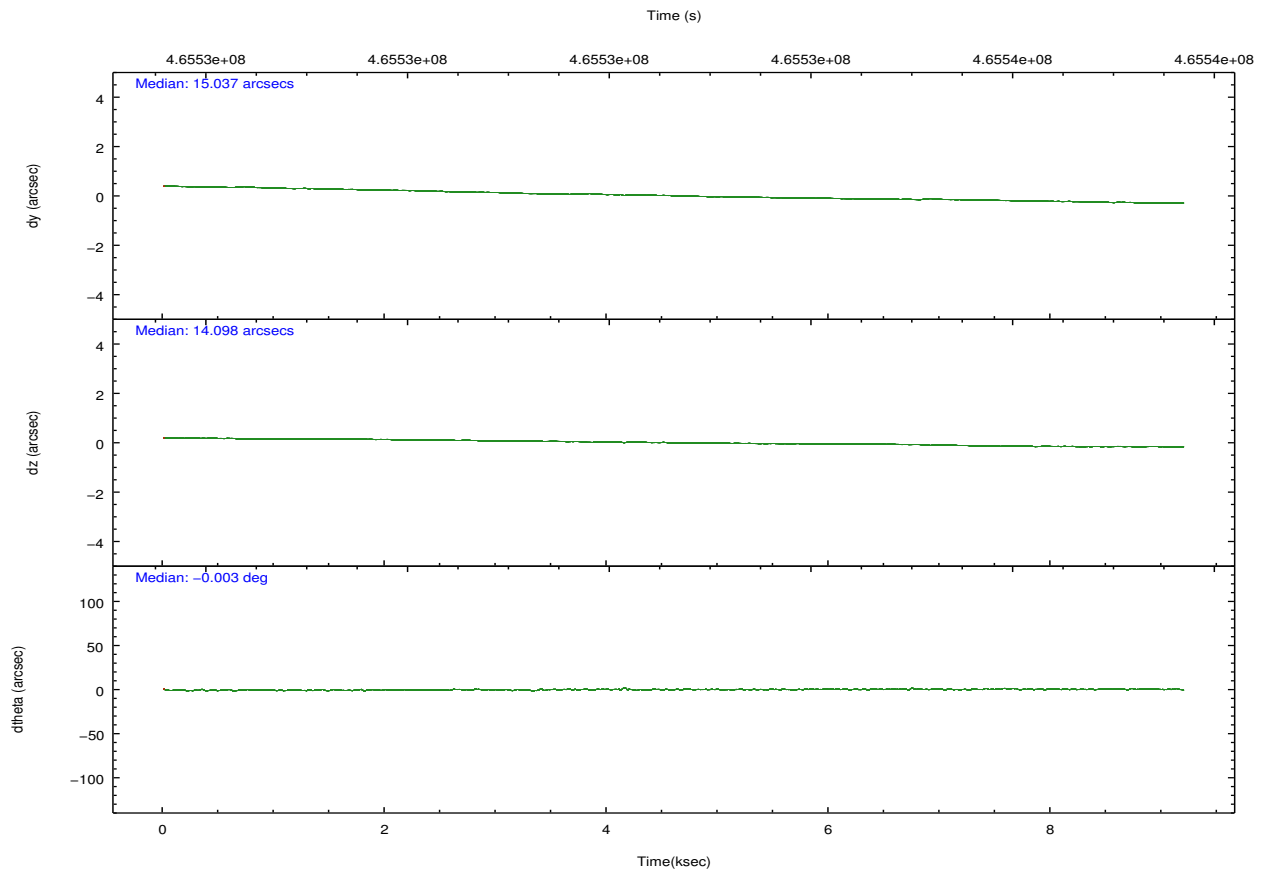
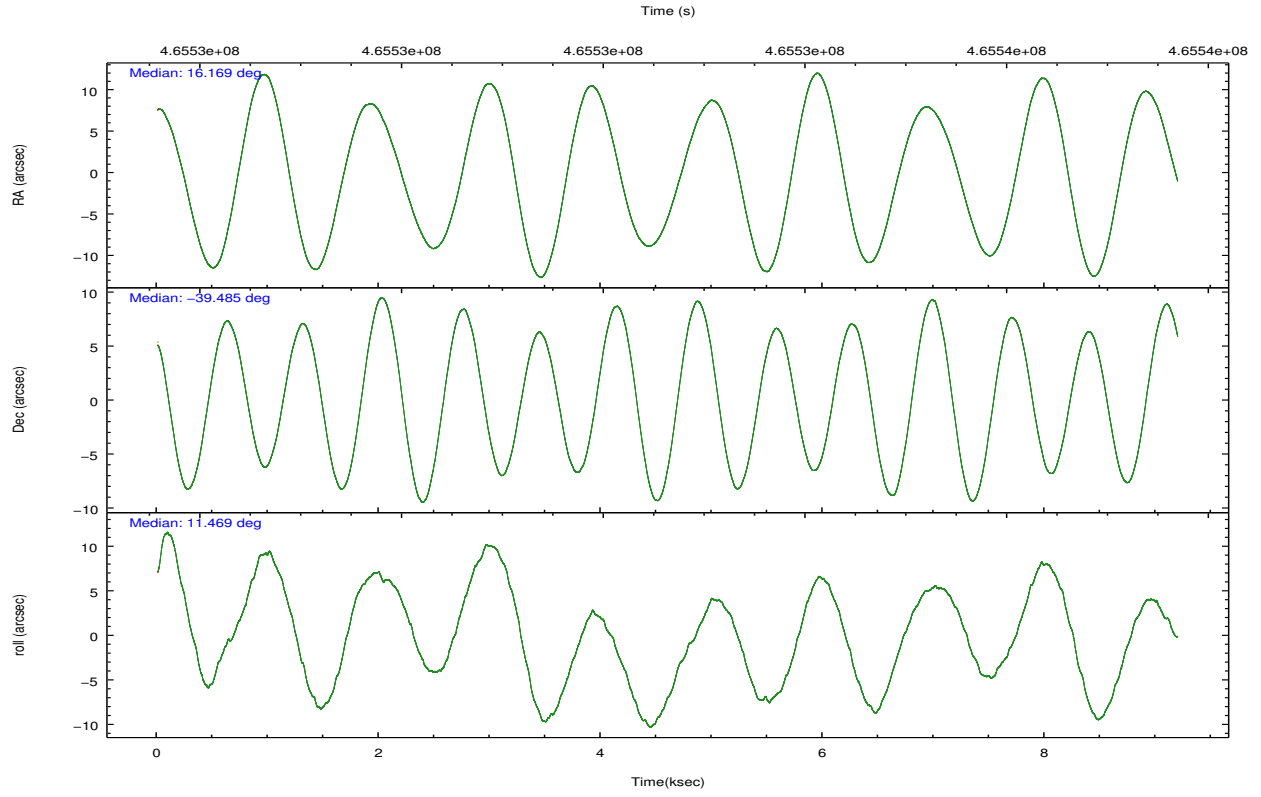
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	6720	4598	2371	6381
	8%	9%	3%	10%
grade 1 events	244	28	79	60
	0%	0%	0%	0%
grade 2 events	12397	1332	5596	4084
	15%	2%	8%	6%
grade 3 events	1286	606	2229	2147
	1%	1%	3%	3%
grade 4 events	1208	614	2343	2111
	1%	1%	3%	3%
grade 5 events	5618	2425	6435	3418
	6%	4%	10%	5%
grade 6 events	19664	1266	14585	4584
	24%	2%	23%	7%
grade 7 events	33777	38165	29024	40485
	41%	77%	46%	63%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	16.142677	16.16893817050089	CCD I2 on	N	N
[deg] Pointing Dec	-39.503777	-39.48537934013587	CCD I3 on	N	N
[deg] Pointing Roll	11.297932	11.47126343046259	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	O2	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	O3	Y
[s] Observation start time (MET)	465528238.184000	465527110.0812	CCD S5 on	N	N
Observation start date	2012-10-02T01:22:51	2012-10-02T01:05:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	465537238.184000	465538039.14429	On-chip summing requested	N	N
Observation end date	2012-10-02T03:52:51	2012-10-02T04:07:19	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



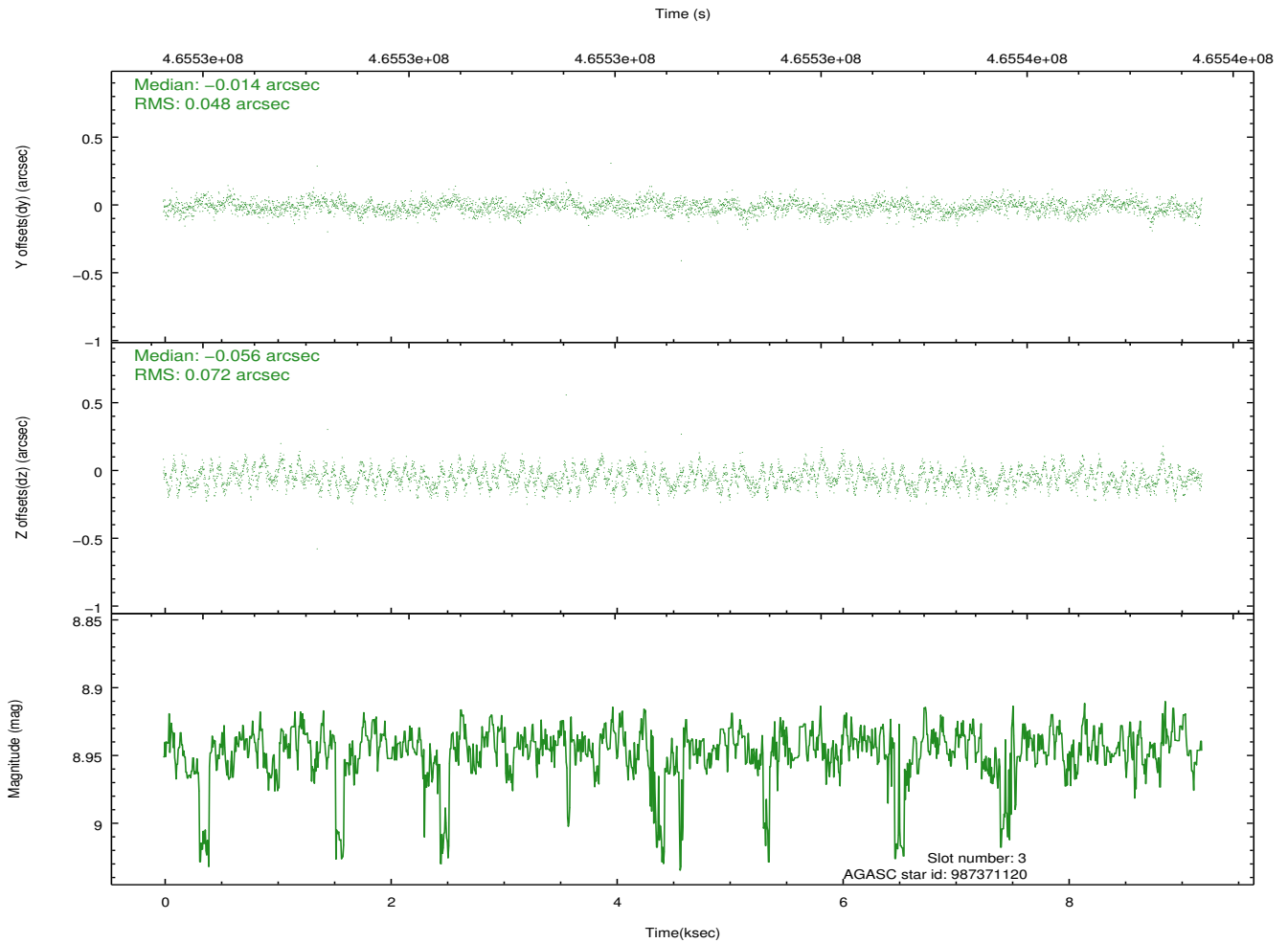
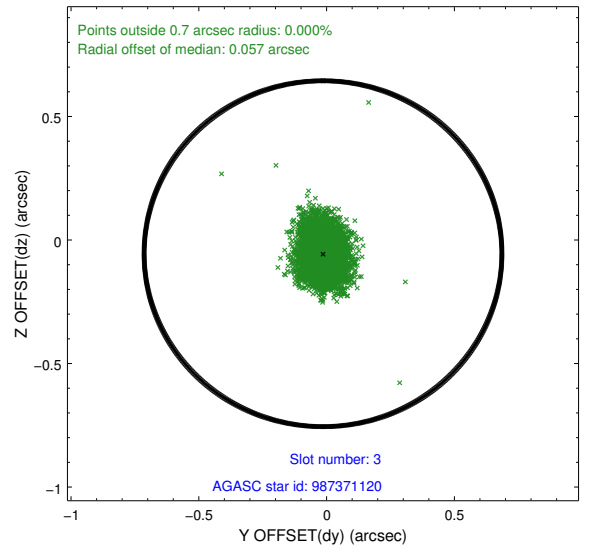
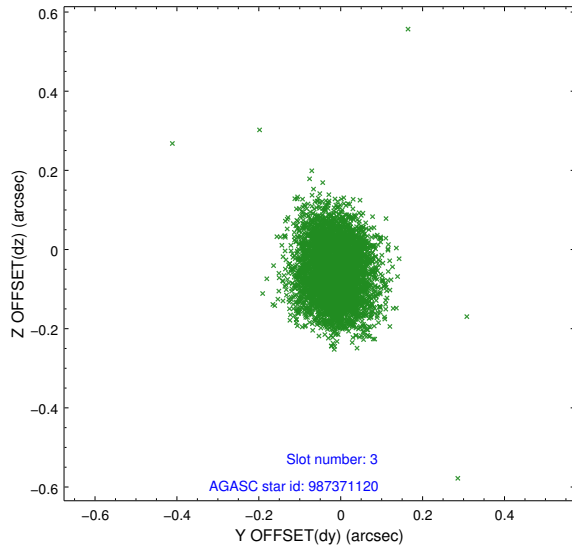


Slot Statistics

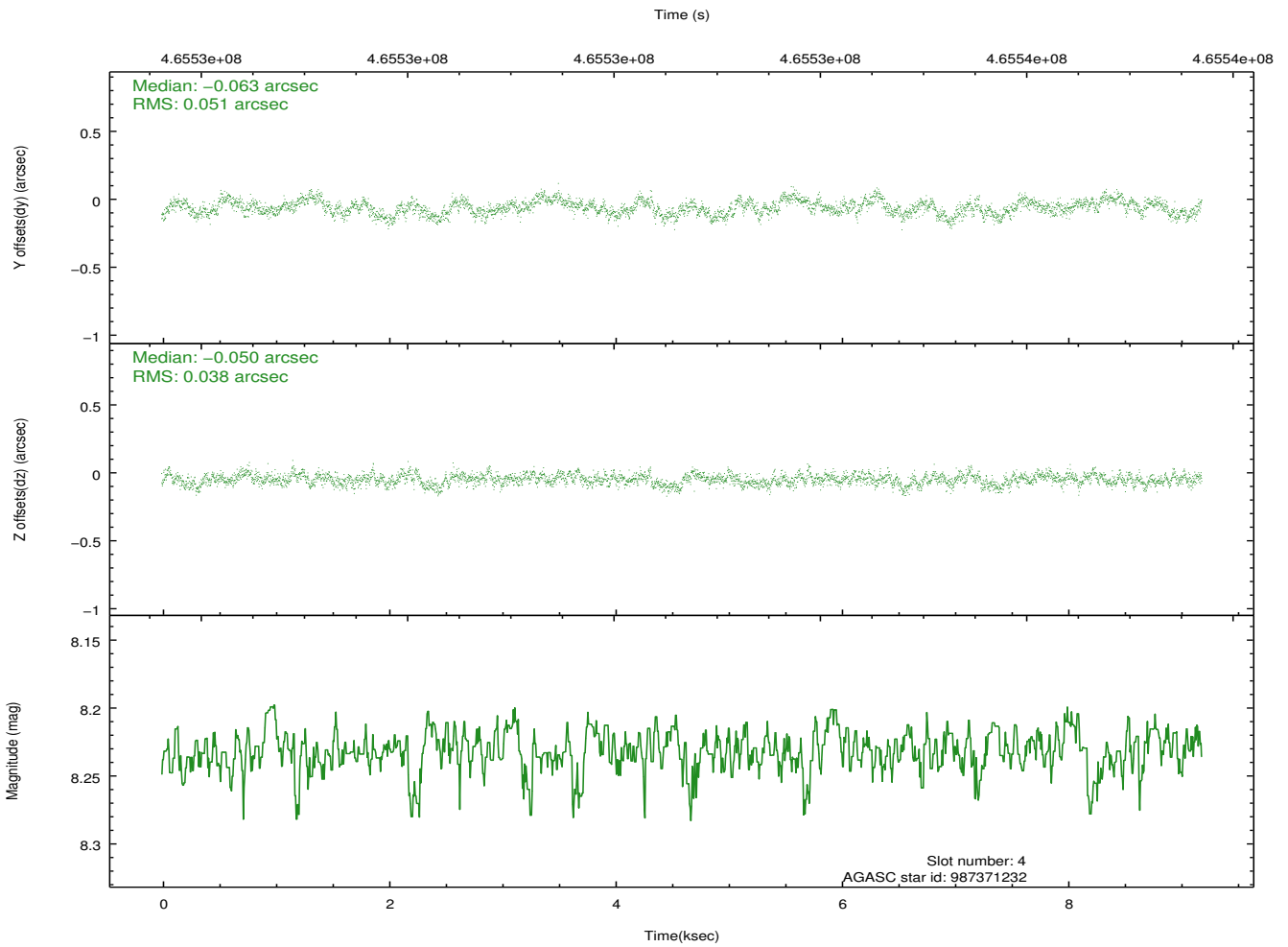
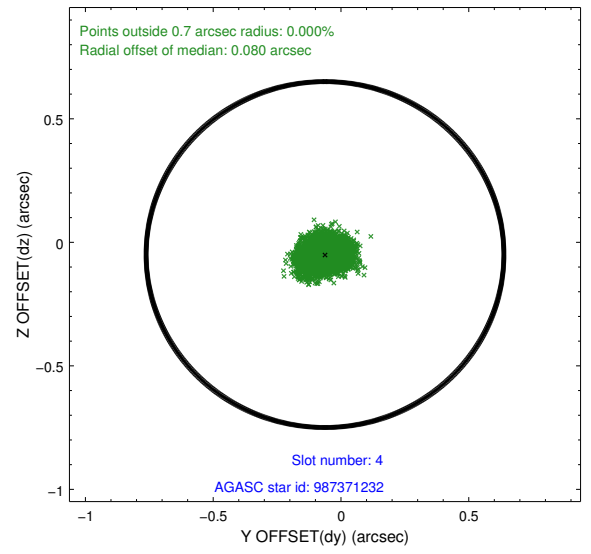
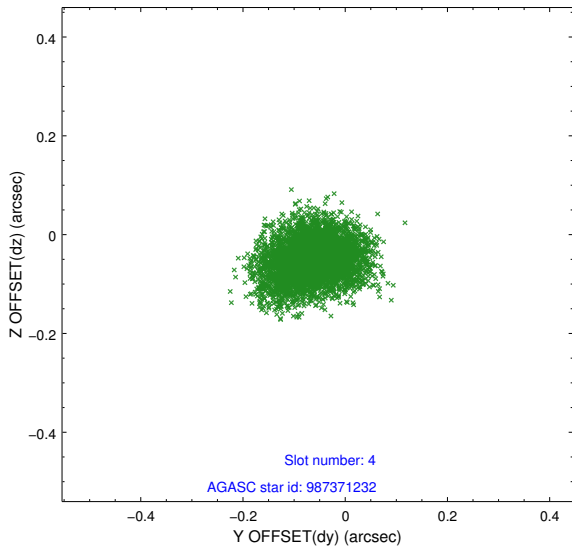
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.99	2242	-0.114	-0.043	0.009	0.015	0.000000	0.000000	-768.17	-1735.44
1	FID		ACIS-S-4	7.08	2242	0.258	0.067	0.006	0.012	0.000000	0.000000	2145.23	172.51
2	FID		ACIS-S-5	7.11	2242	-0.176	-0.015	0.009	0.015	0.000000	0.000000	-1820.29	166.81
3	GUIDE	used	987371120	8.95	4474	-0.014	-0.056	0.091	0.144	15.893524	-39.123579	-412.69	1476.29
4	GUIDE	used	987371232	8.23	4484	-0.063	-0.050	0.068	0.110	15.617526	-39.721287	-1580.26	-486.82
5	GUIDE	used	987373440	8.80	4482	-0.072	-0.049	0.095	0.149	16.507113	-39.413962	1056.42	116.68
6	GUIDE	used	987763792	8.67	4479	0.022	0.090	0.085	0.134	15.500718	-40.214110	-2231.03	-2168.69
7	GUIDE	used	987767104	9.25	4482	0.134	0.068	0.117	0.194	15.687412	-40.016945	-1592.55	-1569.37

2.4 Star Slots

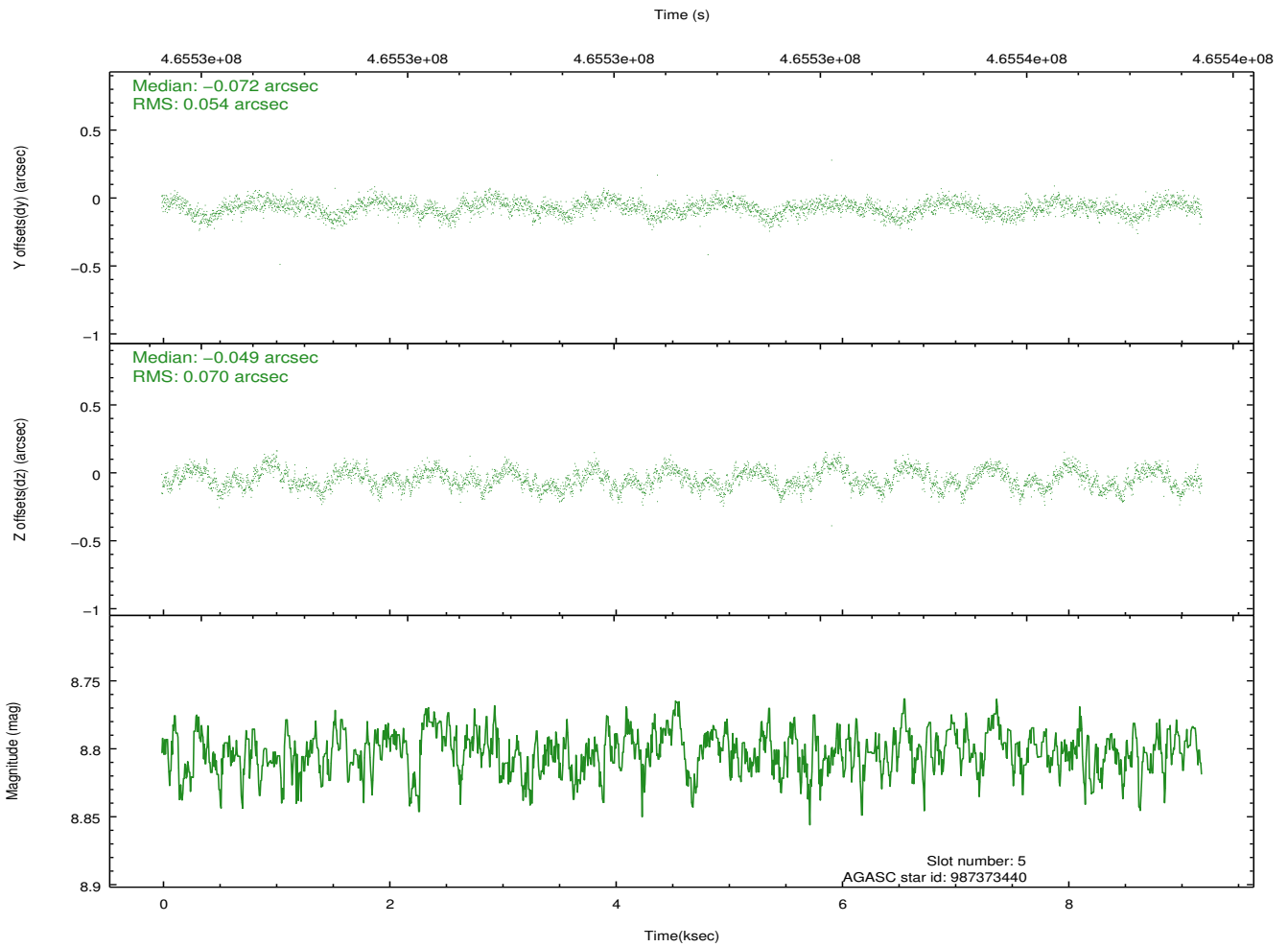
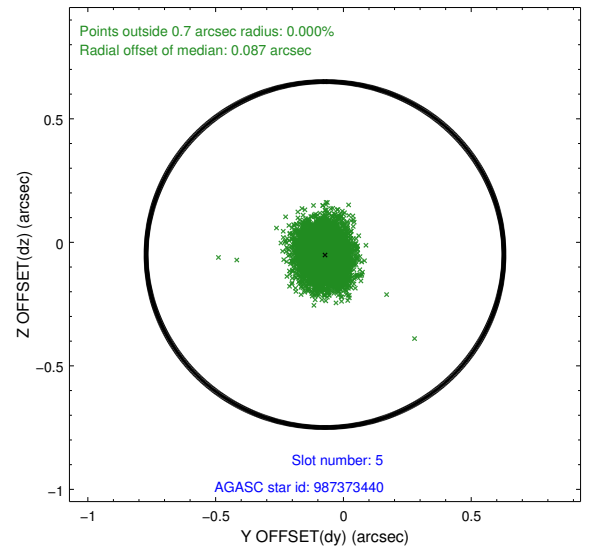
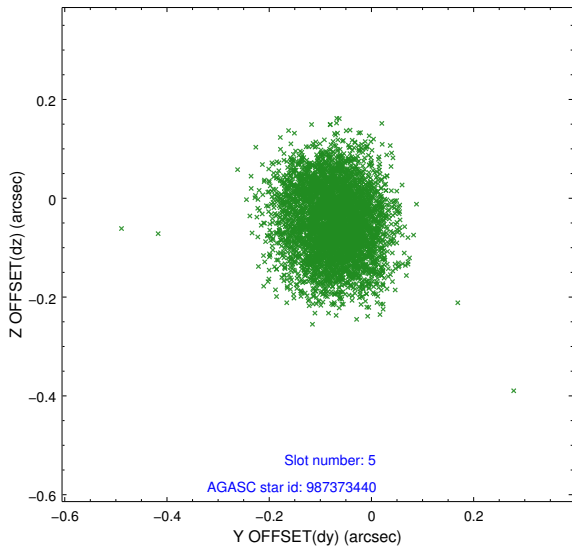
2.4.1 Slot 3



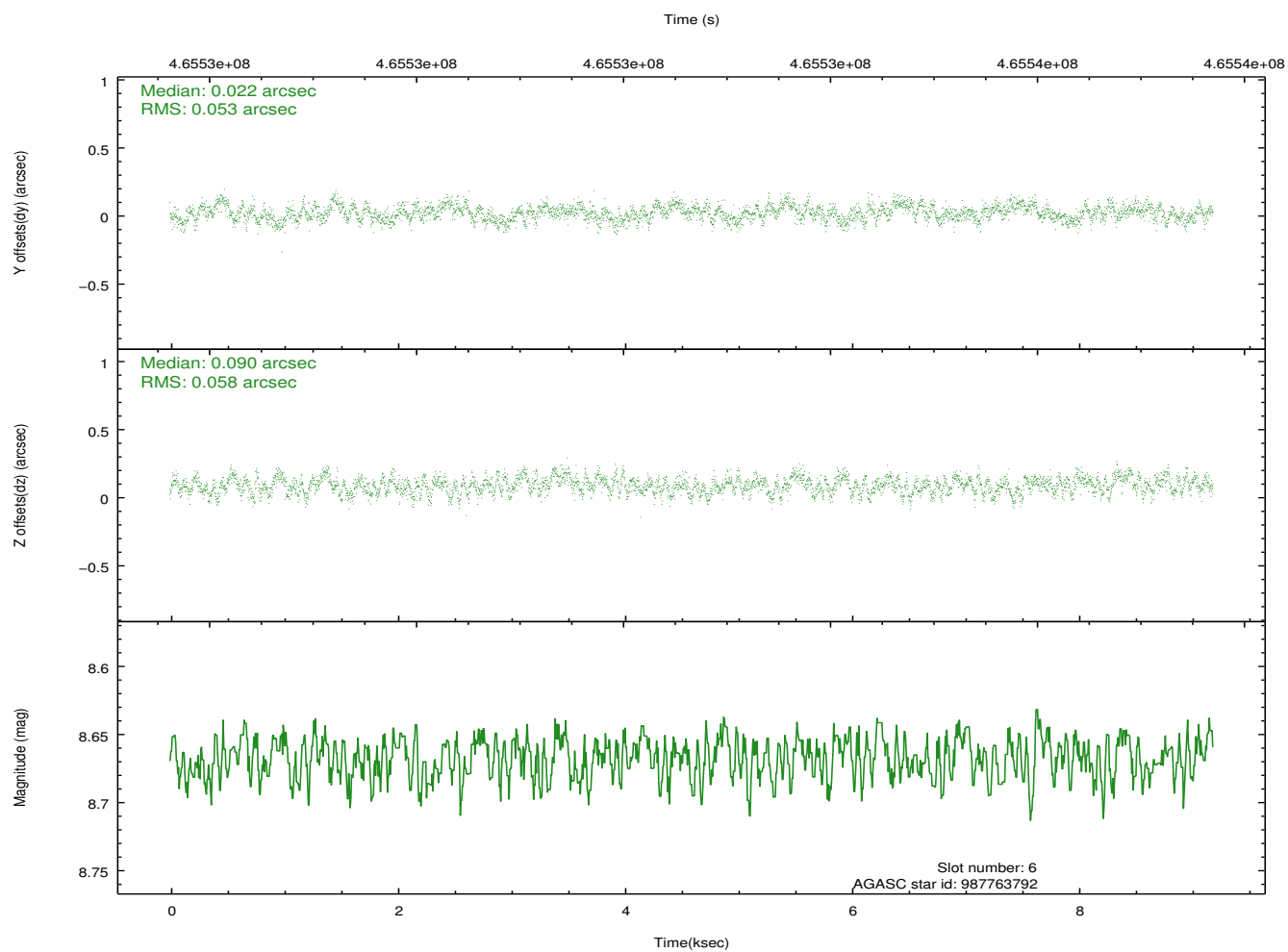
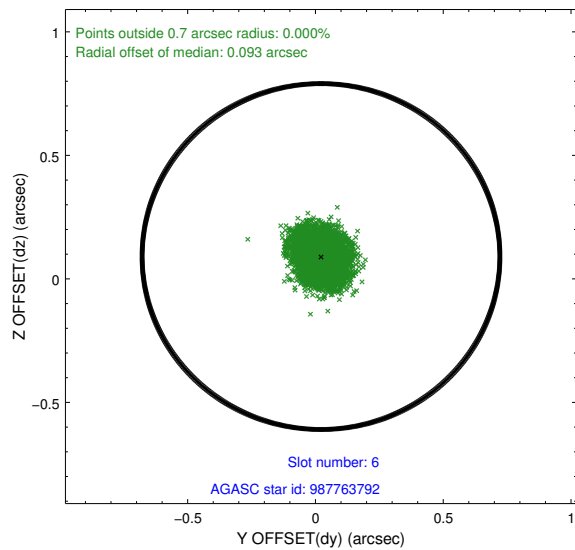
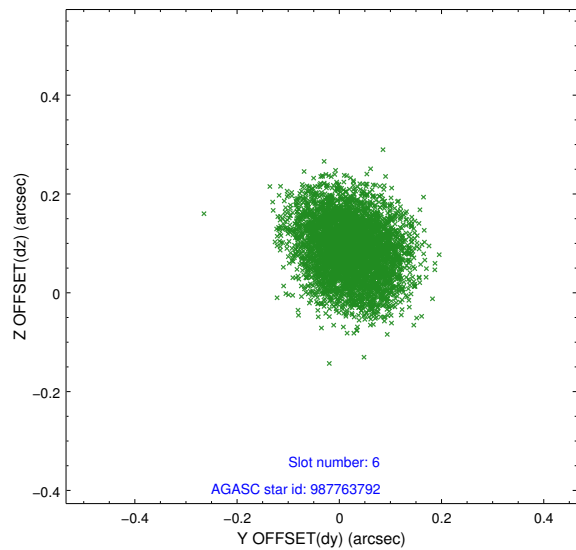
2.4.2 Slot 4



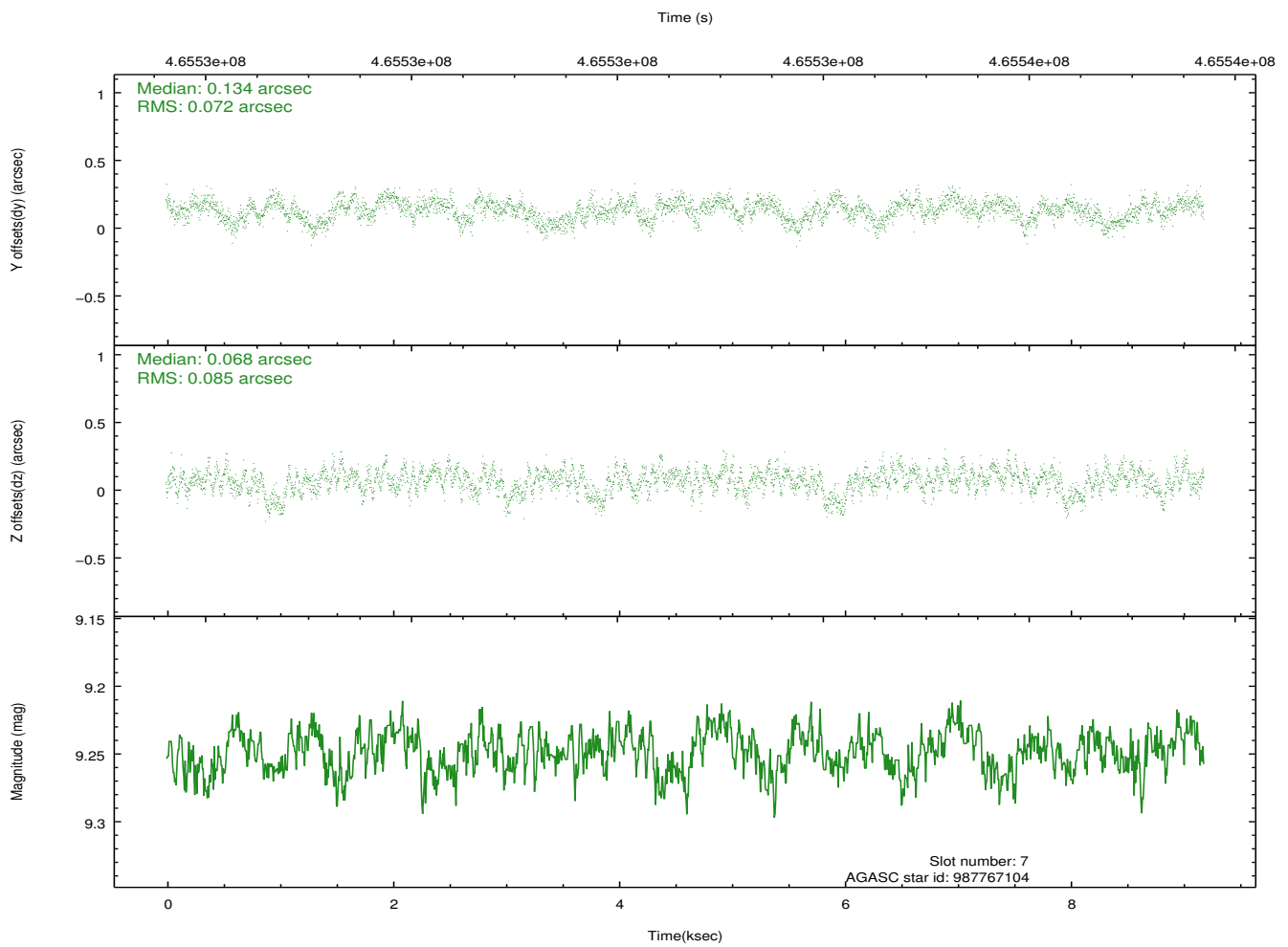
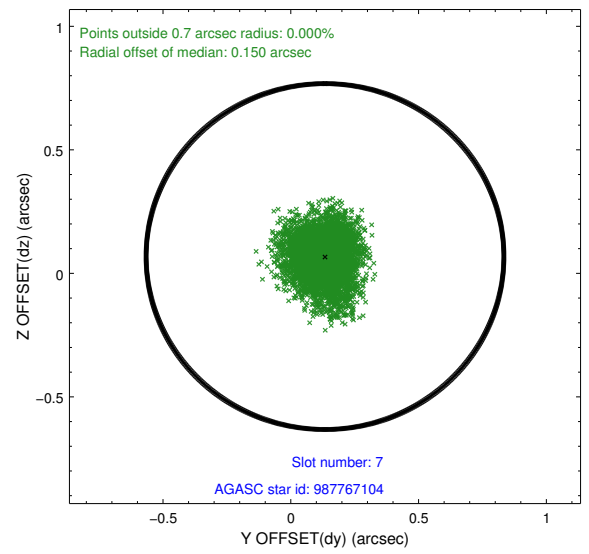
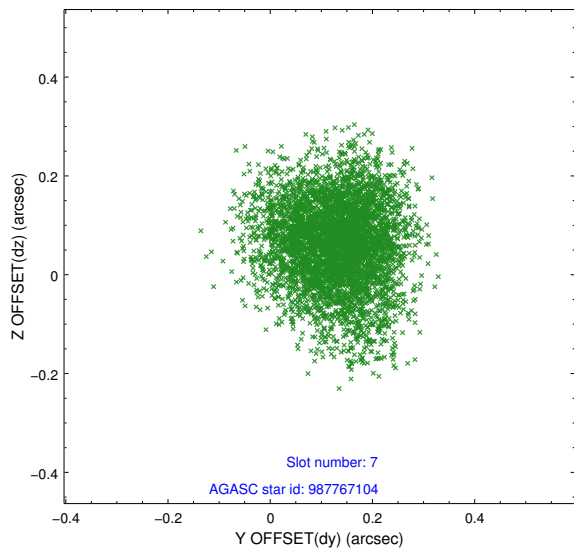
2.4.3 Slot 5



2.4.4 Slot 6

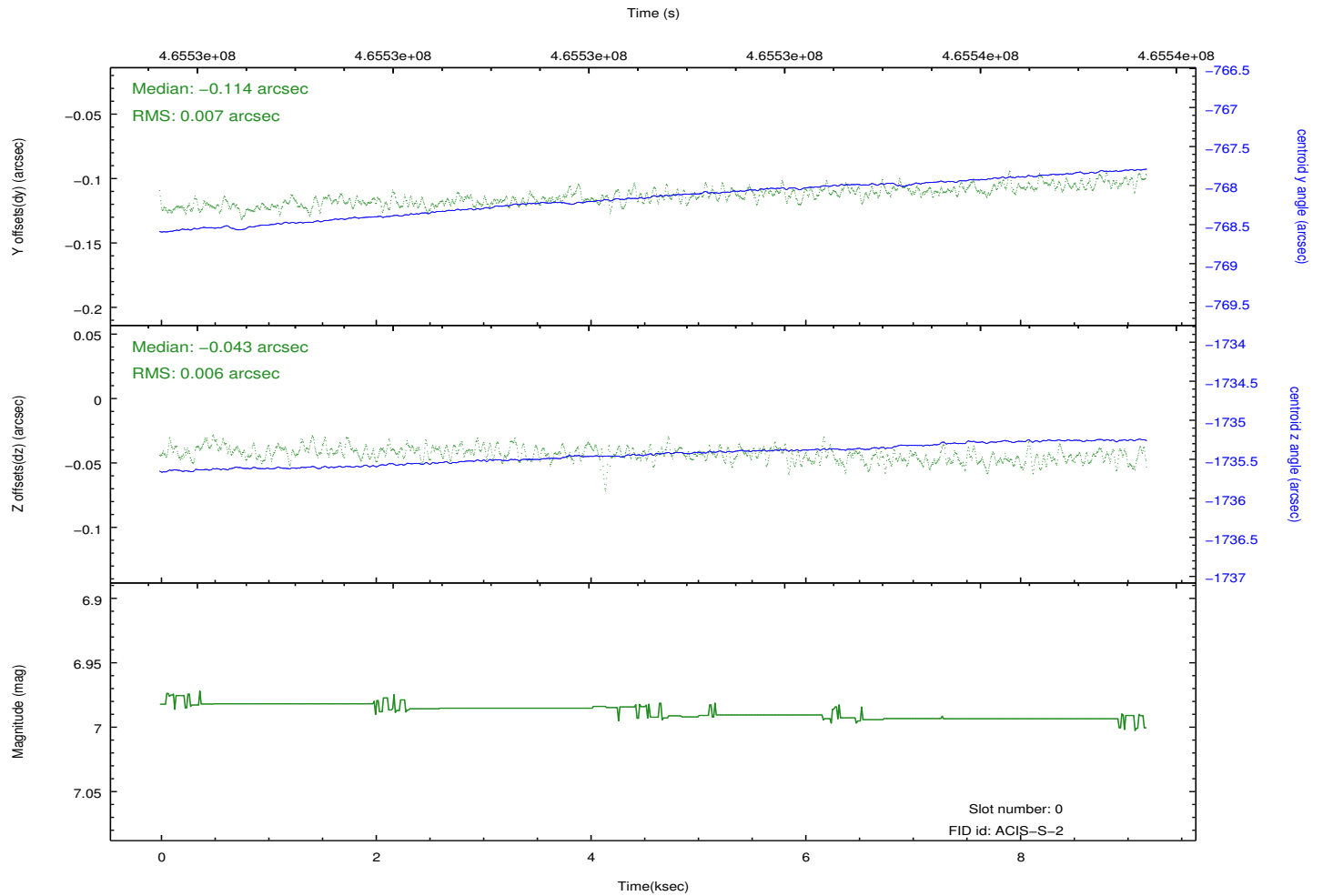
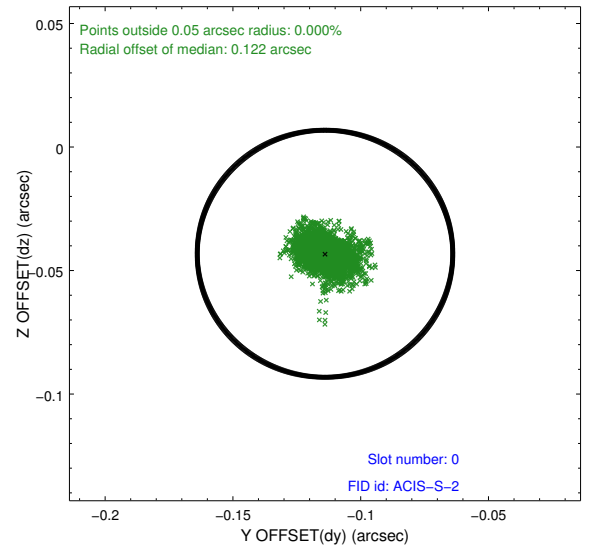
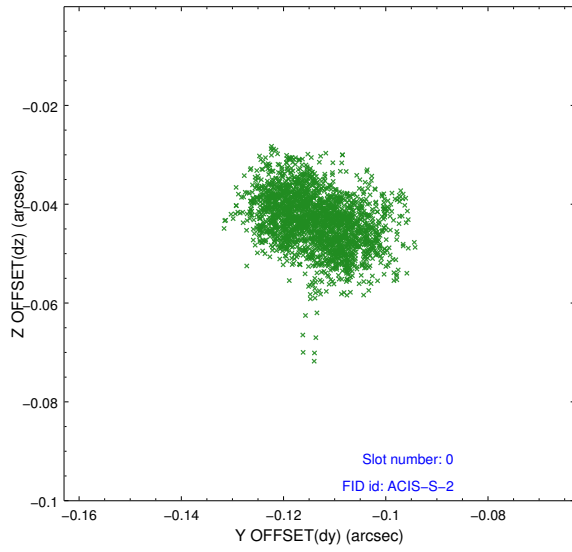


2.4.5 Slot 7

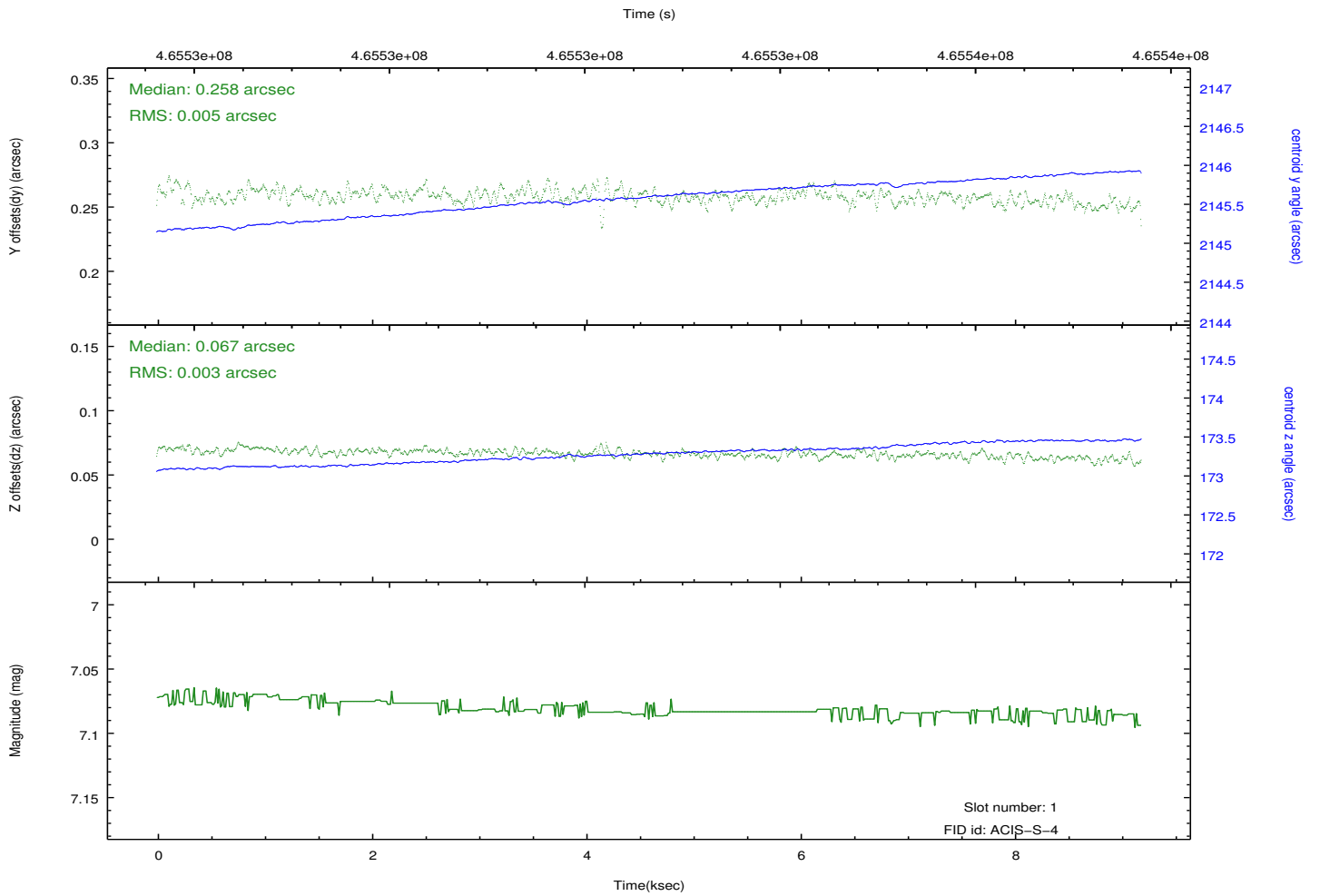
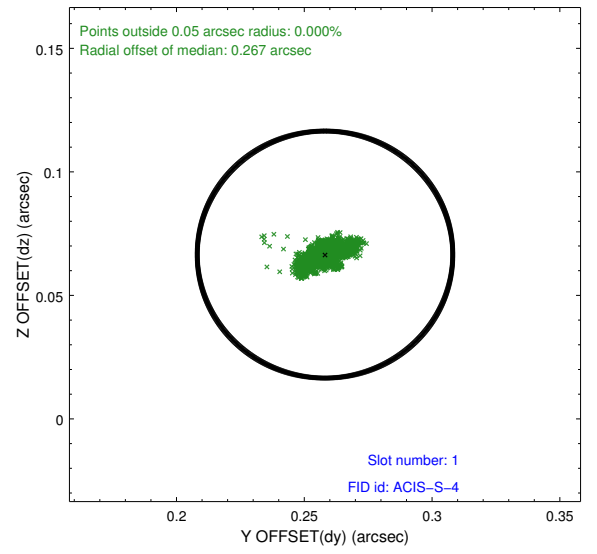
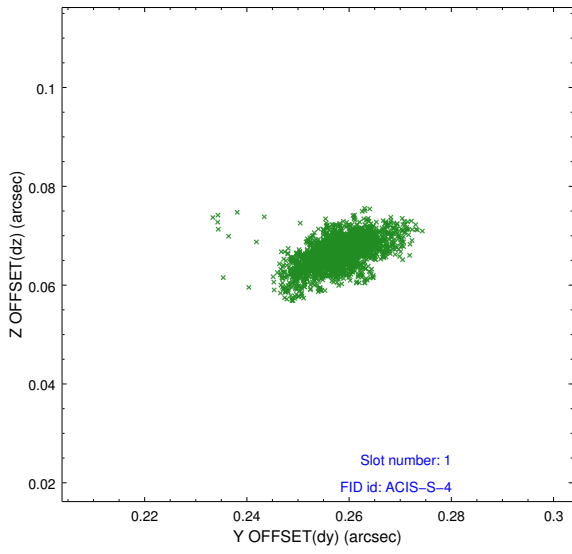


2.5 FID Slots

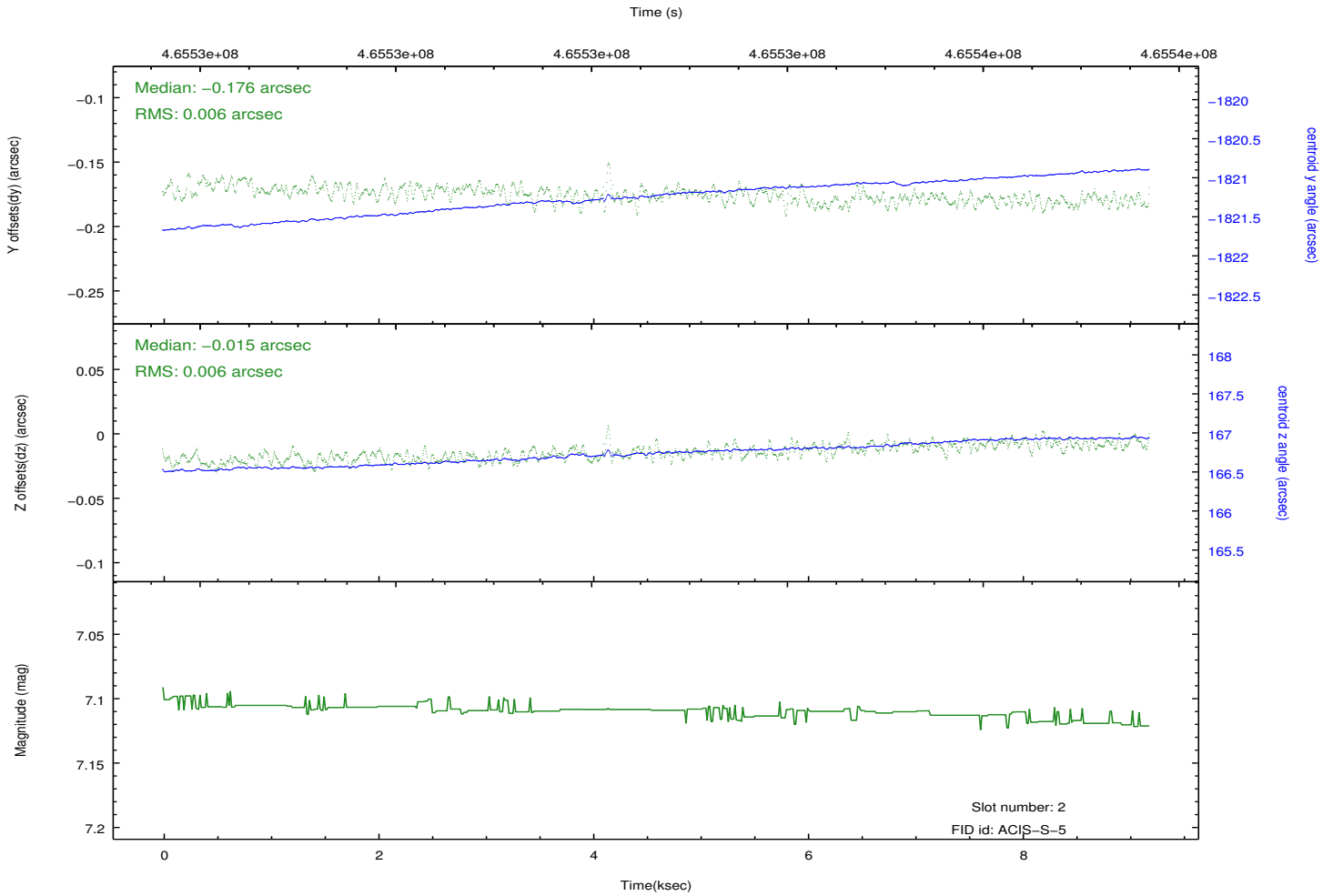
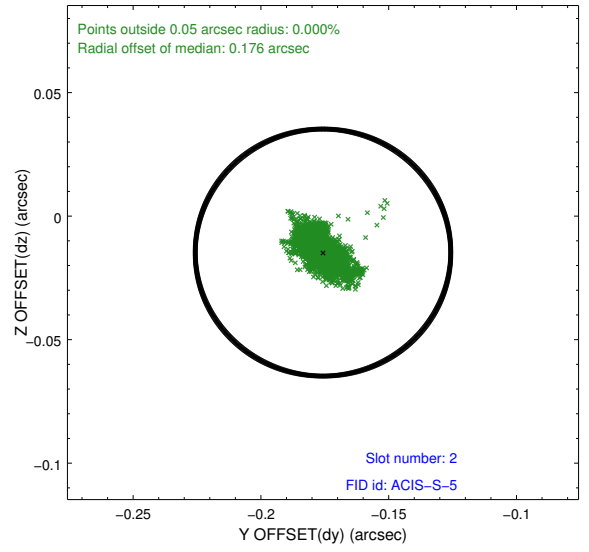
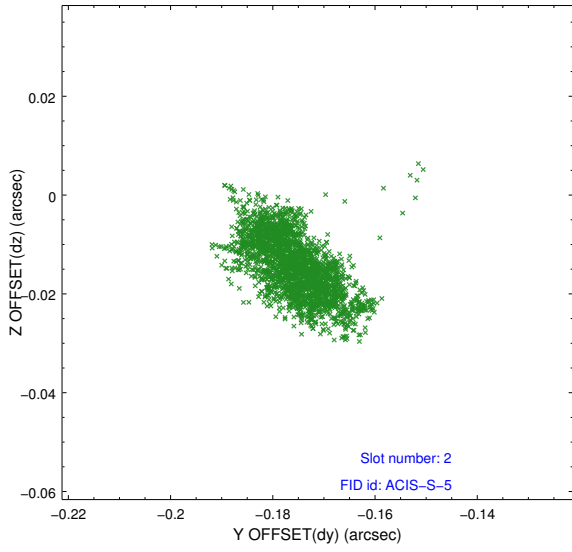
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.0696504513621

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.