

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13664 - L2 Version 2
Chandra X-Ray Center

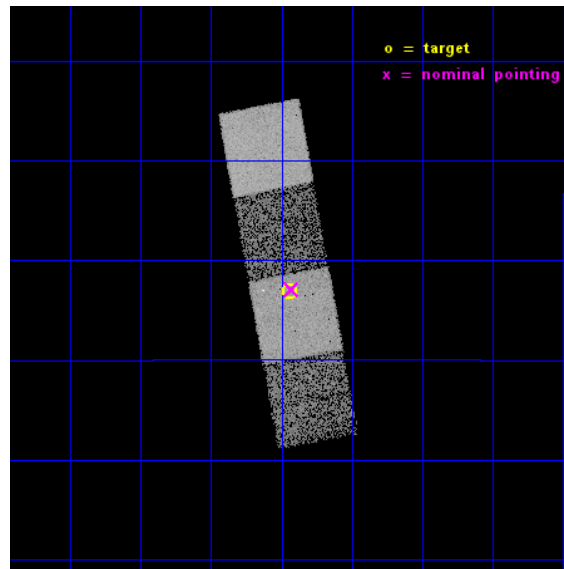
L2 Processing Date : Nov 27 2014

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1 Front

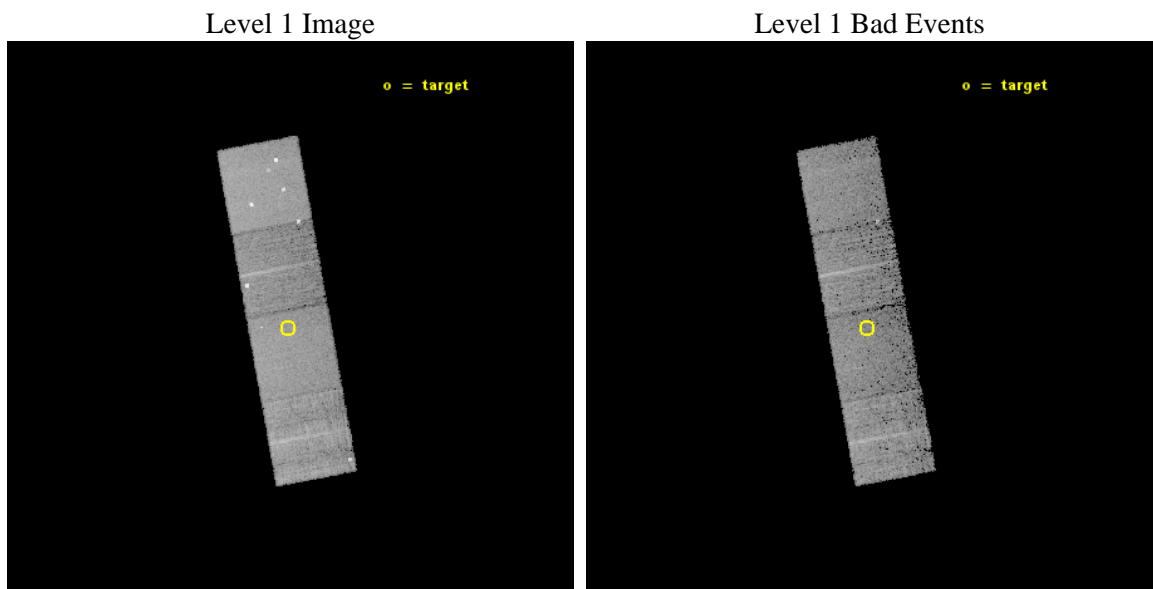
seq_num	200814	Sequence number
obs_id	13664	Observation id
title	Testing Star-Planet Interaction in Solar Analogs	Proposal title
observer	Brendan Miller	Principal investigator
object	HD 28185	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	66.609583	Observer's specified target RA [deg]
dec_targ	-10.550833	Observer's specified target Dec [deg]
ra_nom	66.60733049626	Nominal RA [deg]
dec_nom	-10.548714434977	Nominal Dec [deg]
roll_nom	79.46937275514	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8788.5000675917	Sum of GTIs [s]
livetime	8673.671844209	Livetime [s]
ontime5	8788.5000675917	Sum of GTIs [s]
ontime6	8788.5000675917	Sum of GTIs [s]
ontime7	8788.5000675917	Sum of GTIs [s]
ontime8	8775.9359166026	Sum of GTIs [s]
l2events	69247	Number of level 2 events



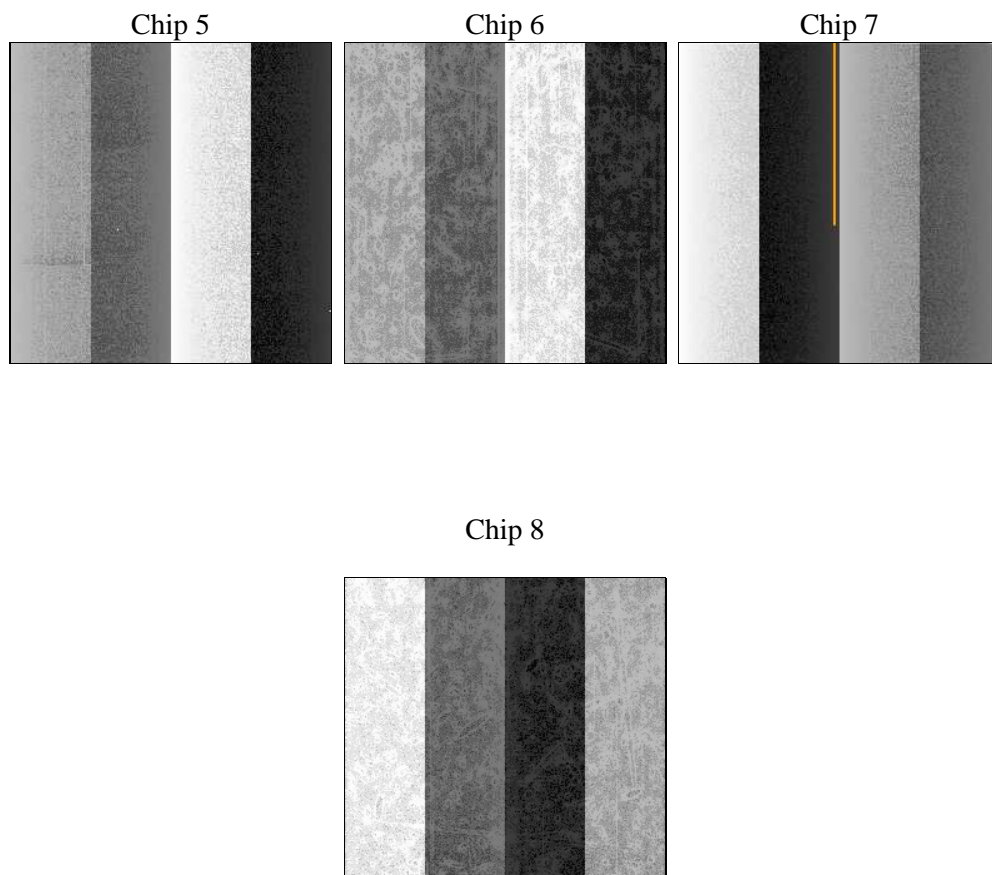
2 OBI

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	8788.5000675917	Sum of GTIs [s]
caldsver	4.6.4	 	ontime5	8788.5000675917	Sum of GTIs [s]
date	2014-11-27T16:37:34	Date and time of file creation	ontime6	8788.5000675917	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	8788.5000675917	Sum of GTIs [s]
			ontime8	8775.9359166026	Sum of GTIs [s]
			l1events	248317	Number of level 1 events

2.1.4 Events

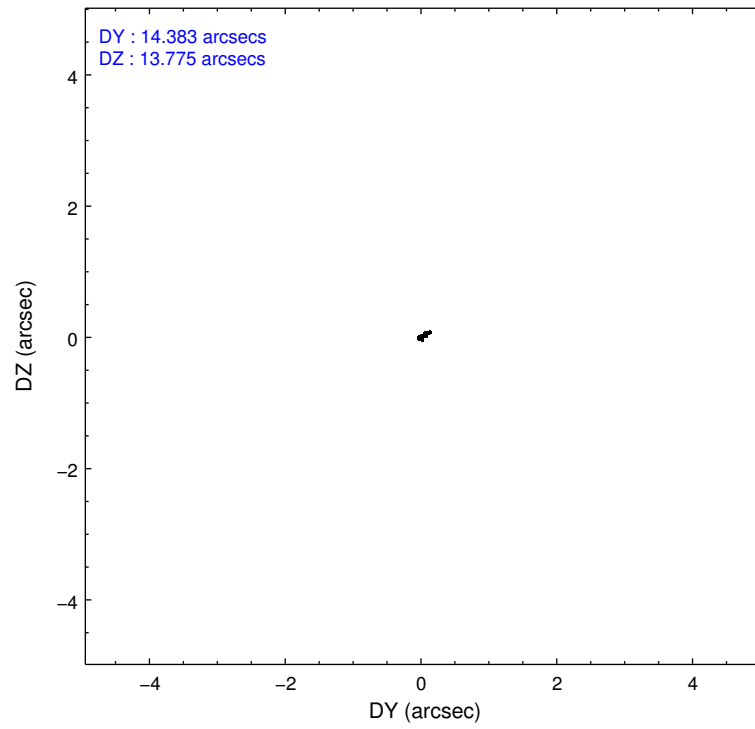
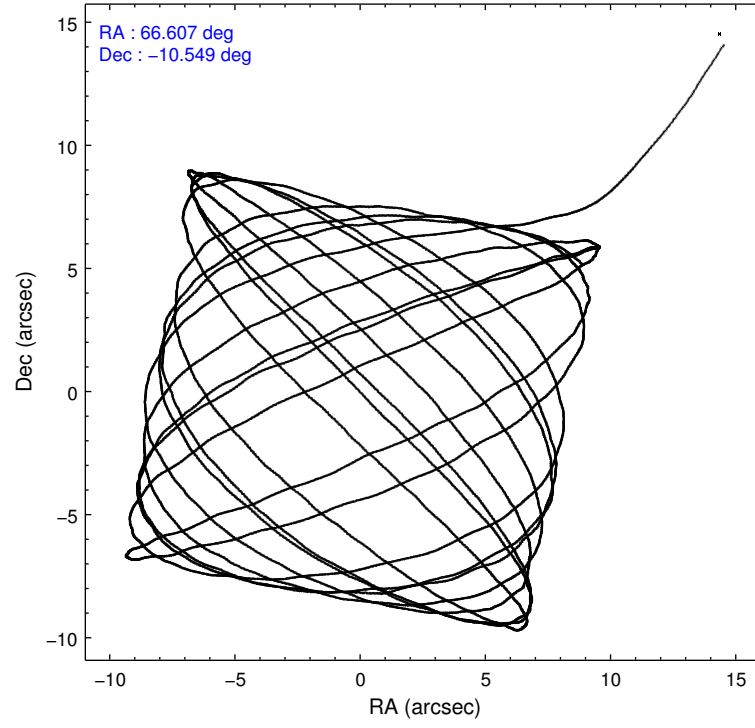
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	79761	45433	59796	63327
rejected events	38341	37763	33499	45968
rejected %	48%	83%	56%	72%

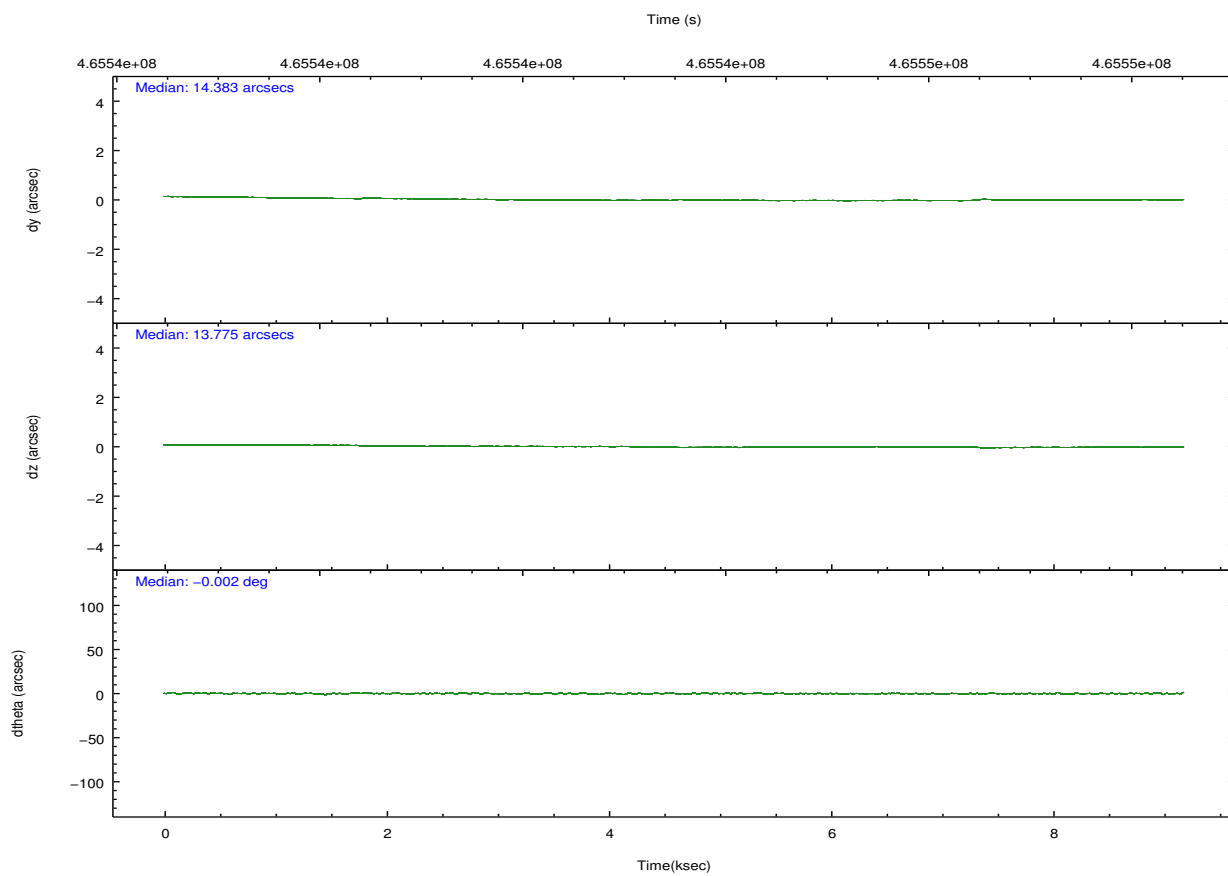
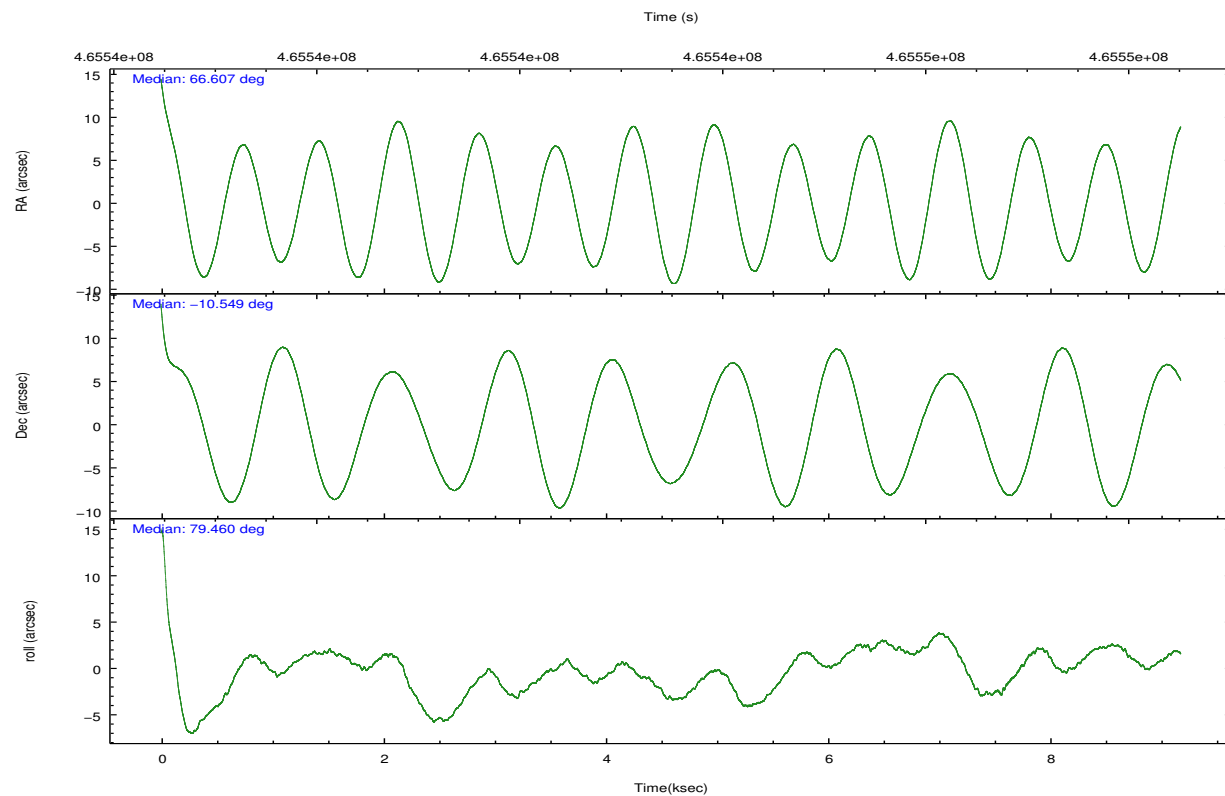
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	7095	4137	2513	5853
	8%	9%	4%	9%
grade 1 events	323	32	54	59
	0%	0%	0%	0%
grade 2 events	12189	1252	5237	3516
	15%	2%	8%	5%
grade 3 events	1291	567	2360	1961
	1%	1%	3%	3%
grade 4 events	1247	511	2173	1861
	1%	1%	3%	2%
grade 5 events	5569	2253	6237	3269
	6%	4%	10%	5%
grade 6 events	19623	1208	14042	4174
	24%	2%	23%	6%
grade 7 events	32424	35473	27180	42634
	40%	78%	45%	67%

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	66.616960	66.60733049625981	CCD I2 on	N	N
[deg] Pointing Dec	-10.574415	-10.54871443497668	CCD I3 on	N	N
[deg] Pointing Roll	79.314486	79.4693727551396	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)	465539081.184000	465538039.14429	CCD S5 on	N	N
Observation start date	2012-10-02T04:23:34	2012-10-02T04:07:19	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	465548081.184000	465548505.93235	On-chip summing requested	N	N
Observation end date	2012-10-02T06:53:34	2012-10-02T07:01:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



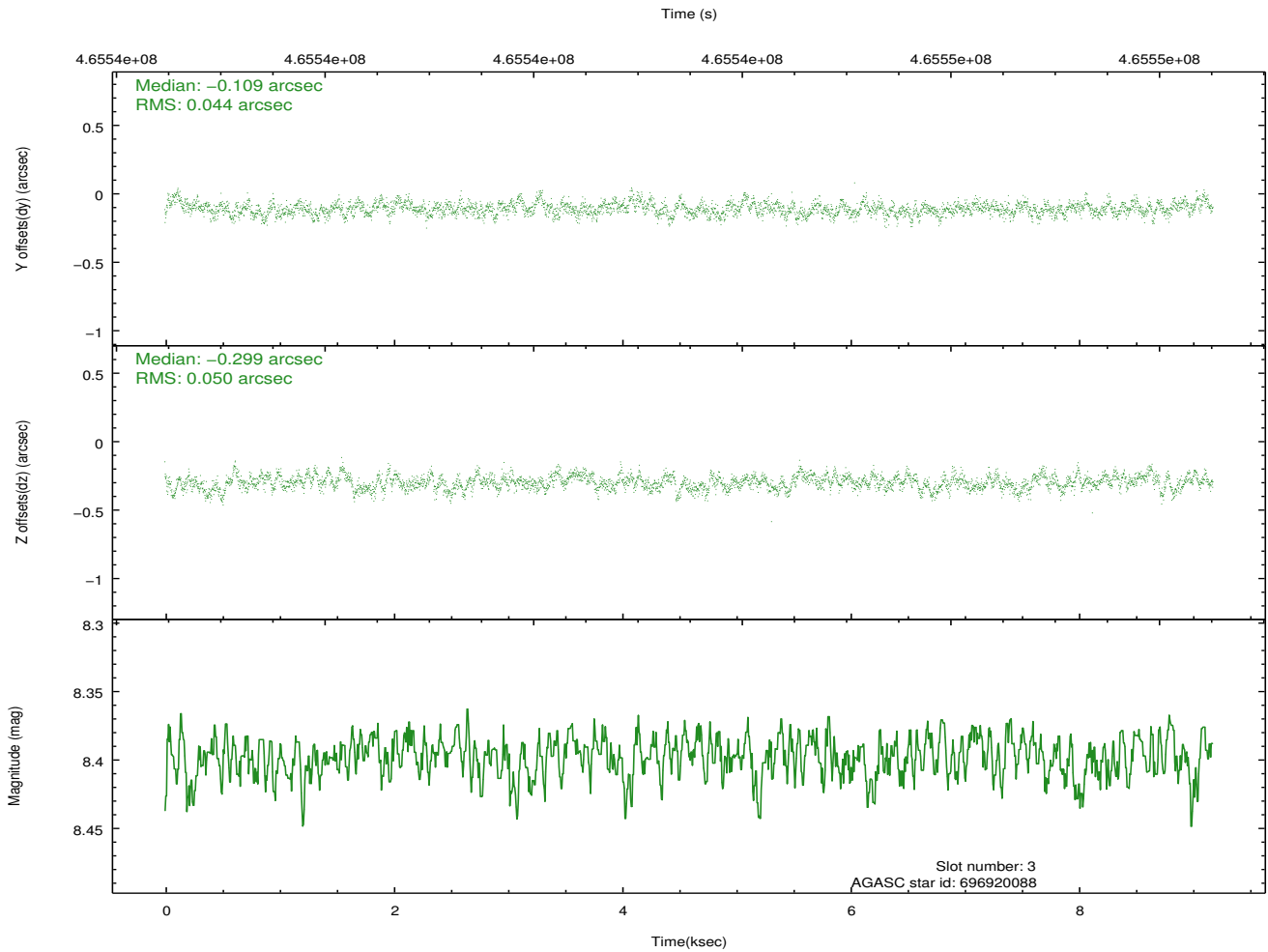
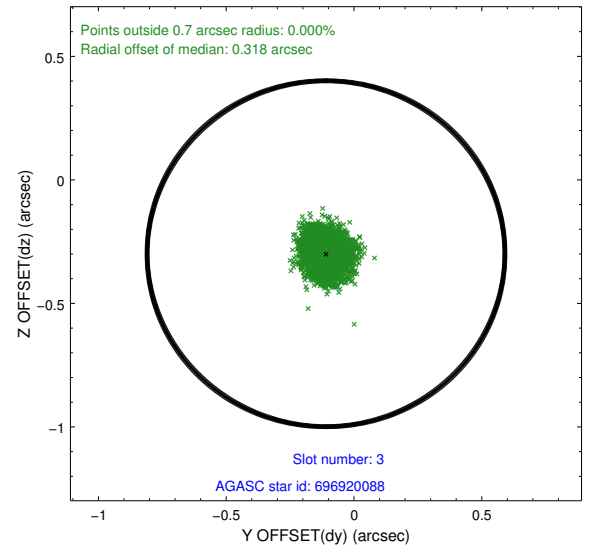
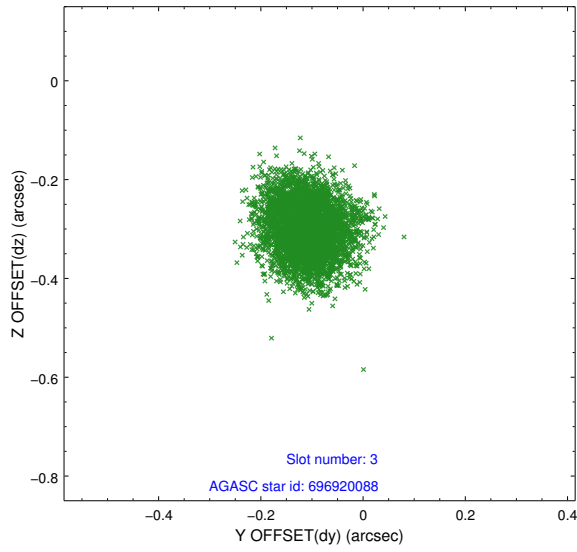


Slot Statistics

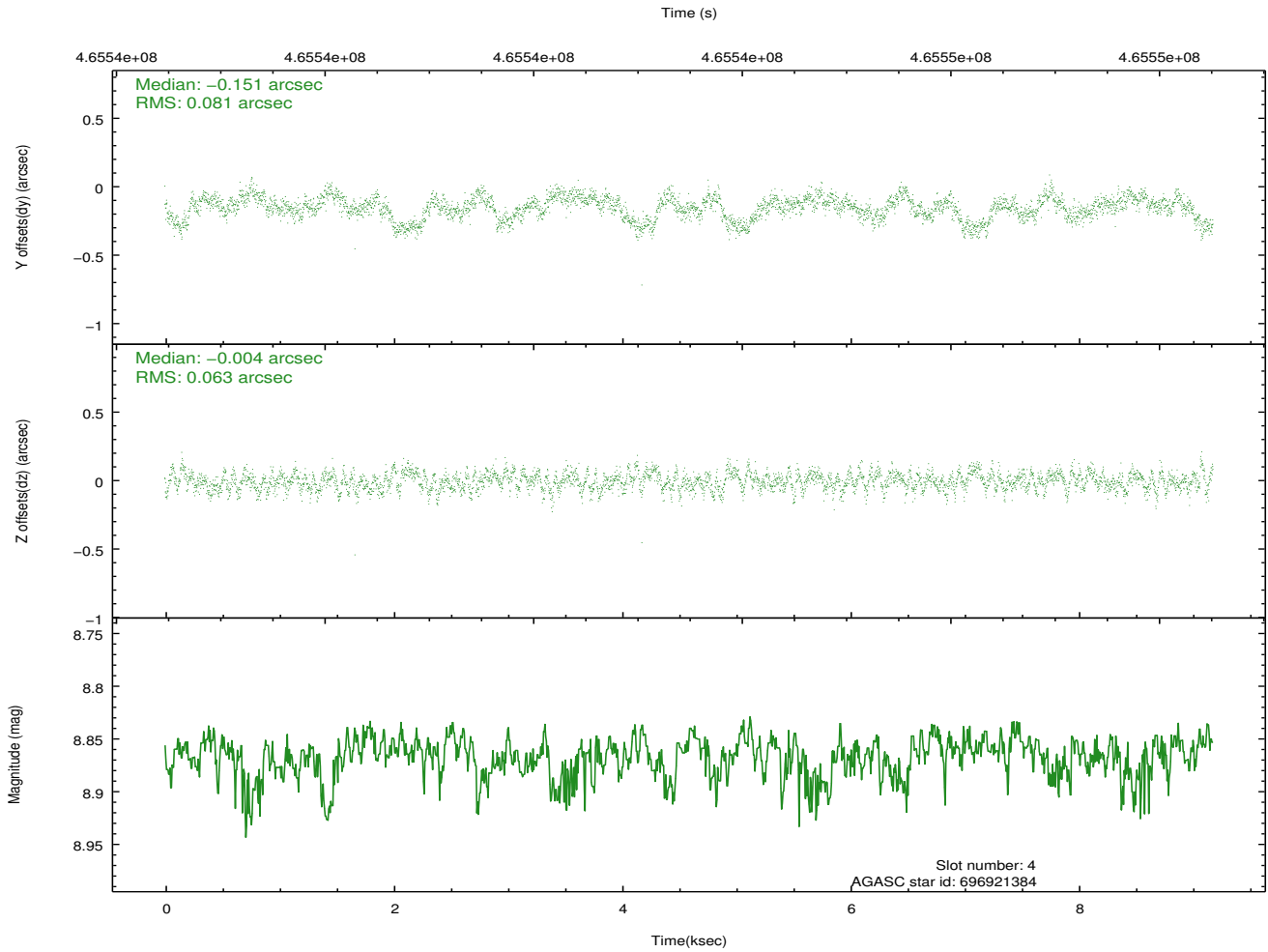
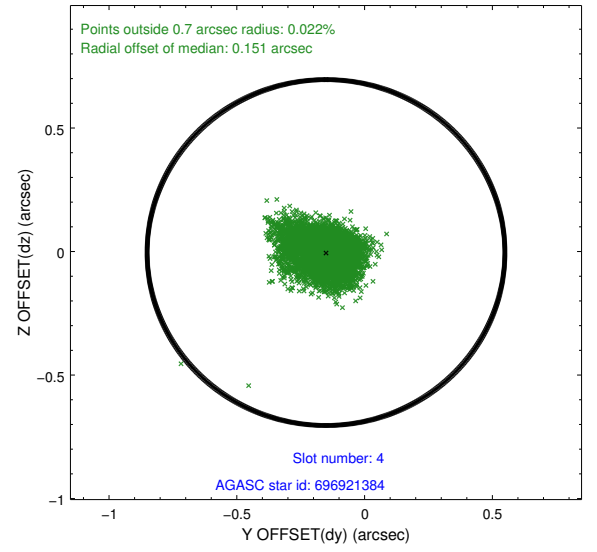
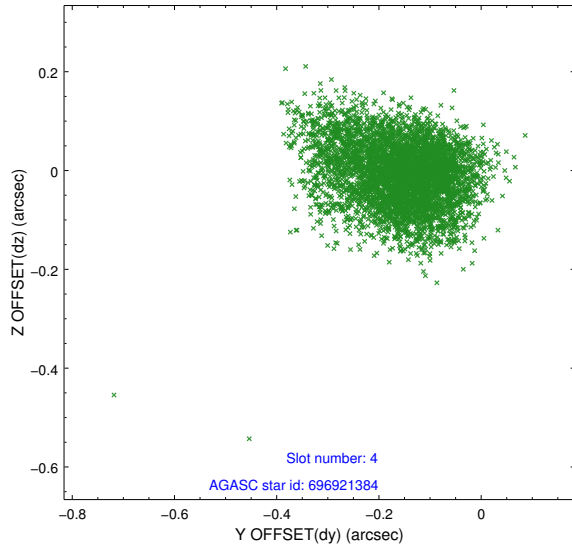
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.00	2240	-0.137	-0.080	0.006	0.011	0.000000	0.000000	-767.54	-1735.13
1	FID		ACIS-S-4	7.09	2239	0.168	0.073	0.006	0.011	0.000000	0.000000	2145.82	172.80
2	FID		ACIS-S-6	7.23	2239	-0.059	0.014	0.007	0.013	0.000000	0.000000	395.35	810.86
3	GUIDE	used	696920088	8.40	4479	-0.109	-0.299	0.071	0.116	66.412767	-10.587246	-179.76	701.25
4	GUIDE	used	696921384	8.87	4479	-0.151	-0.004	0.106	0.178	67.128359	-10.535425	472.26	-1752.50
5	GUIDE	used	696915392	9.12	4473	0.142	-0.040	0.118	0.199	67.227034	-10.021190	2356.71	-1756.37
6	GUIDE	used	696929064	7.86	4478	0.152	0.283	0.090	0.142	67.228228	-11.058010	-1312.00	-2446.40
7	GUIDE	used	696924432	9.04	4474	-0.020	0.064	0.101	0.162	67.336784	-10.477916	811.22	-2440.05

2.4 Star Slots

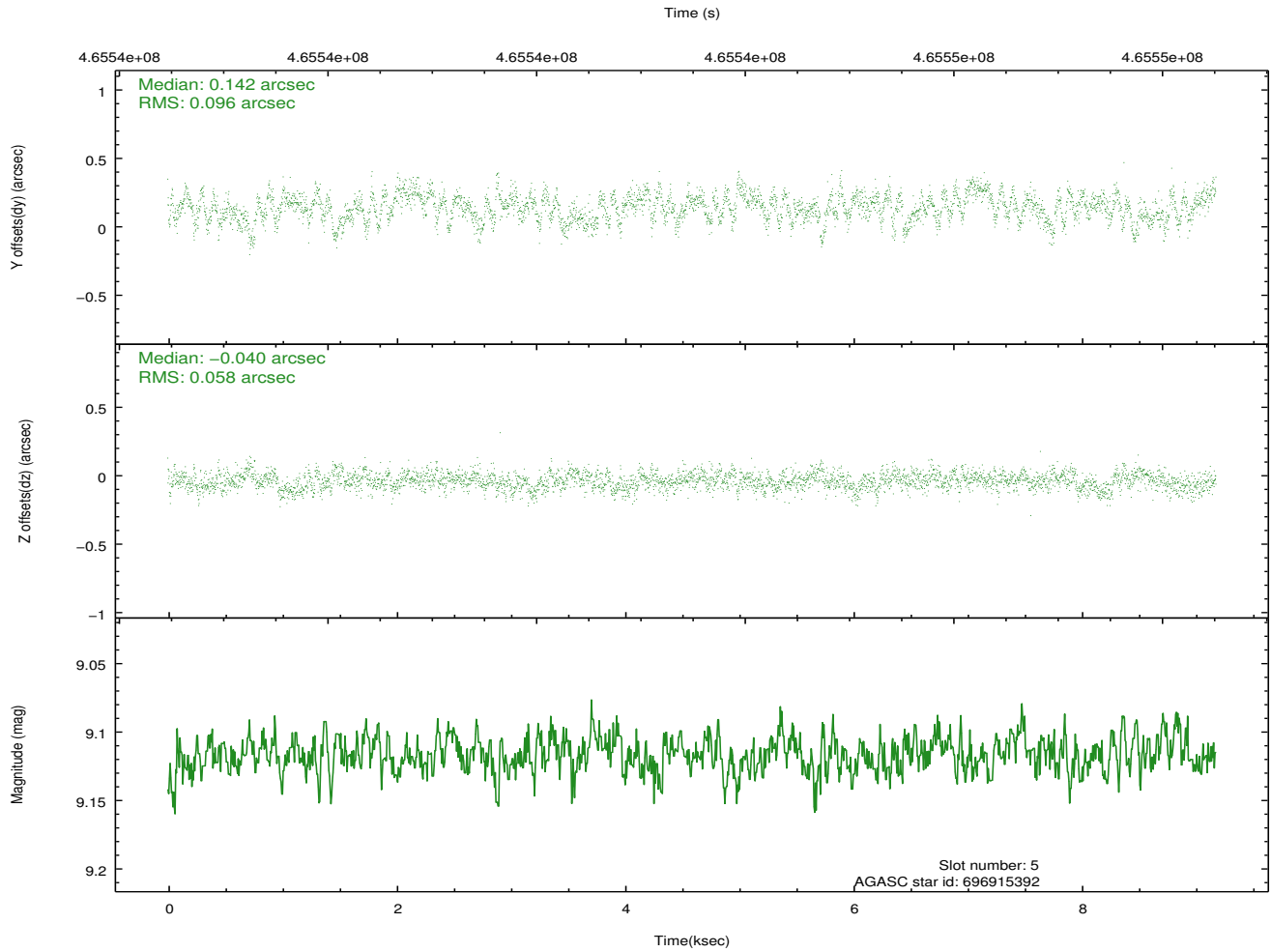
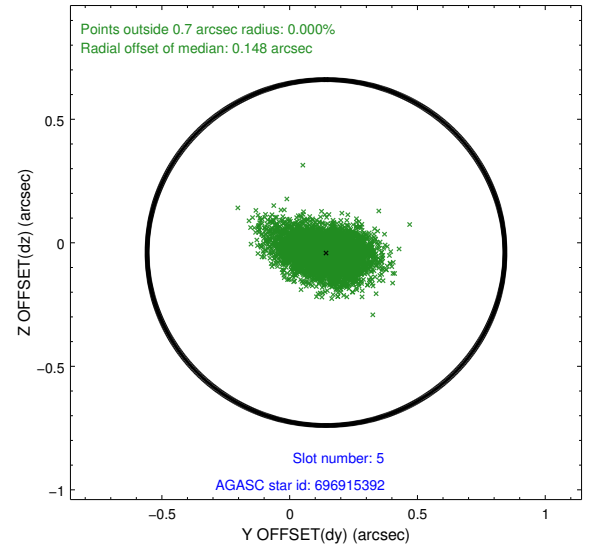
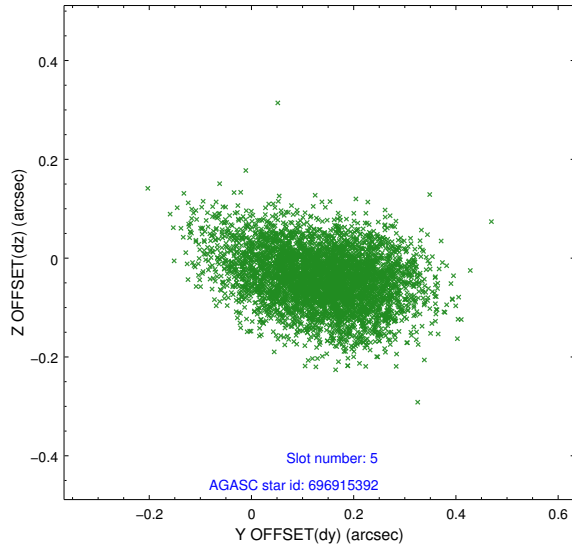
2.4.1 Slot 3



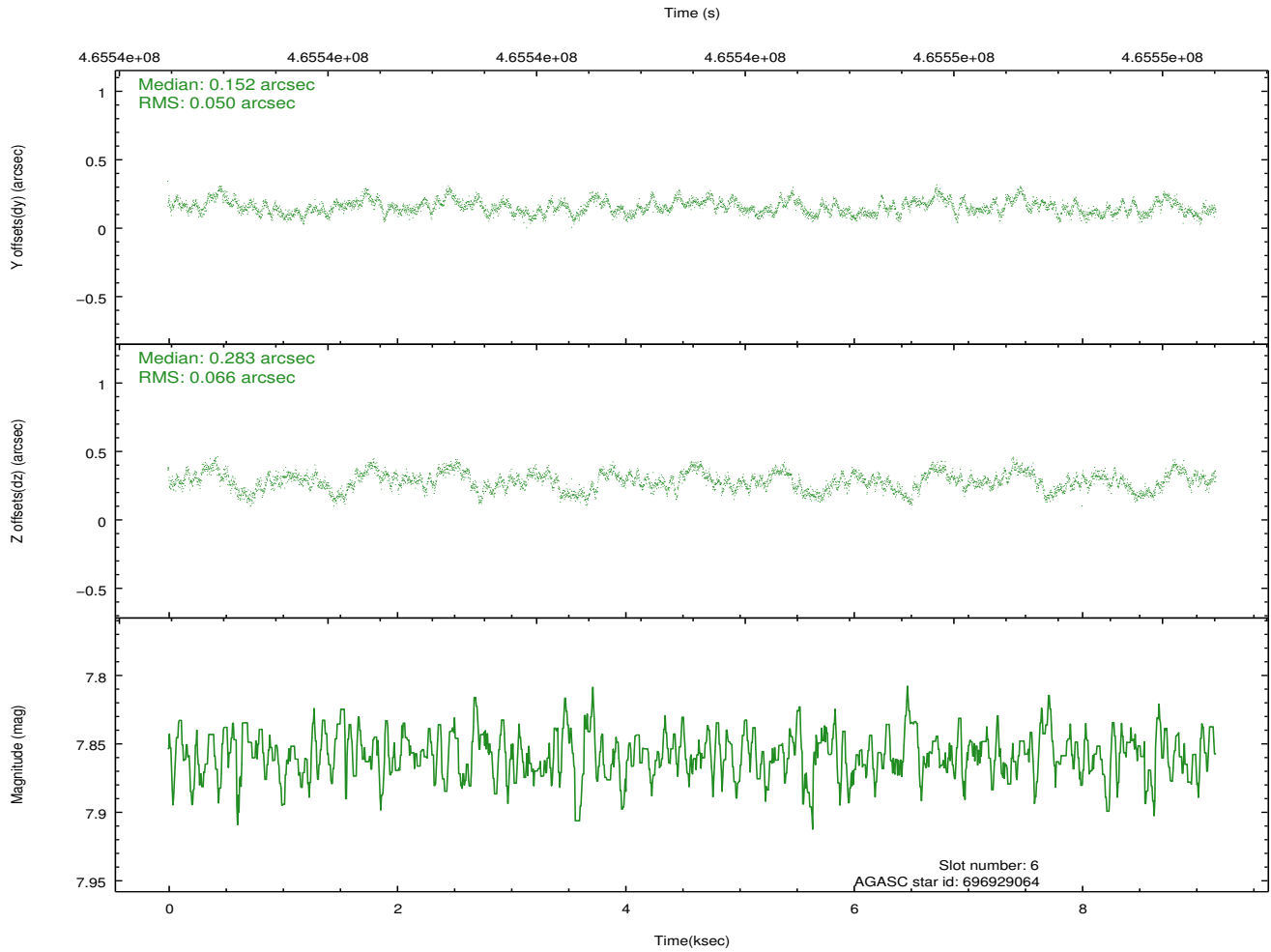
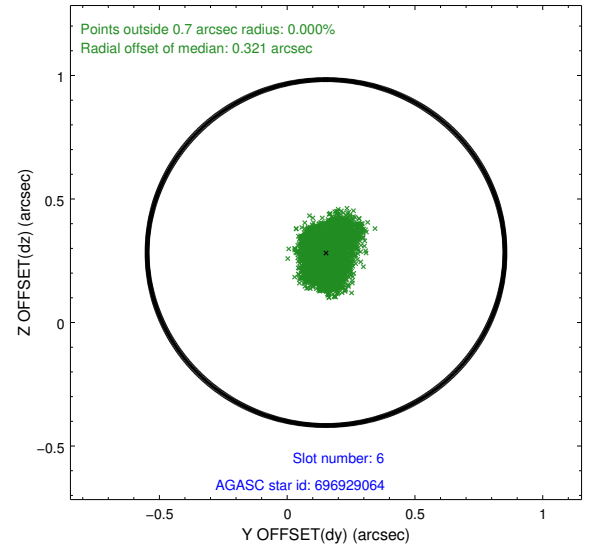
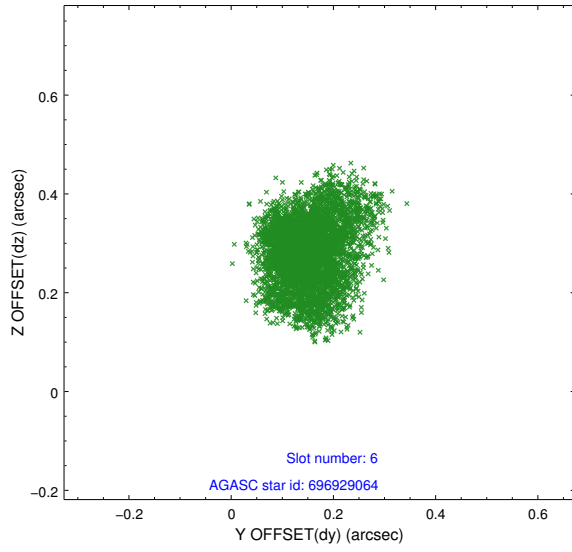
2.4.2 Slot 4



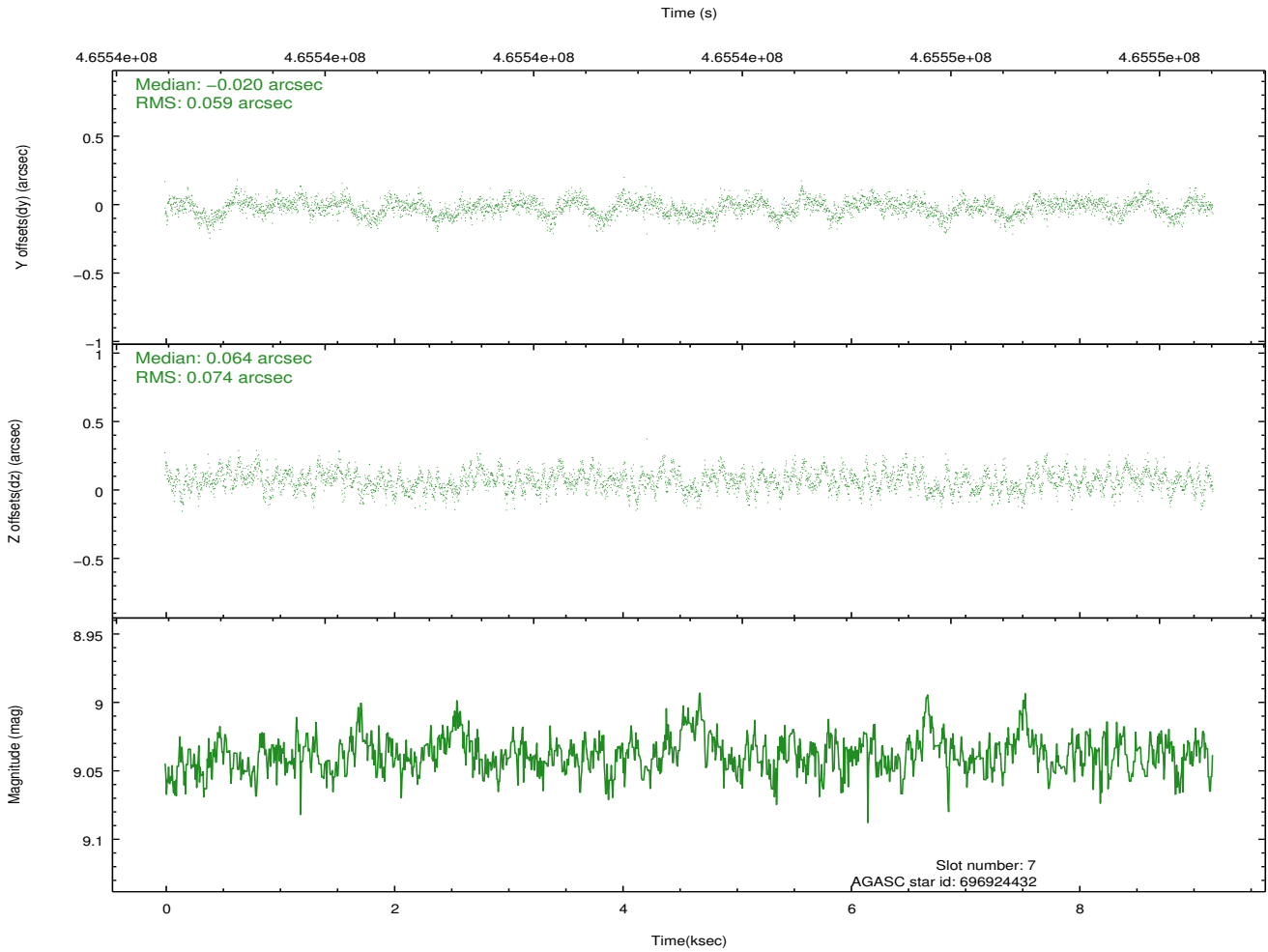
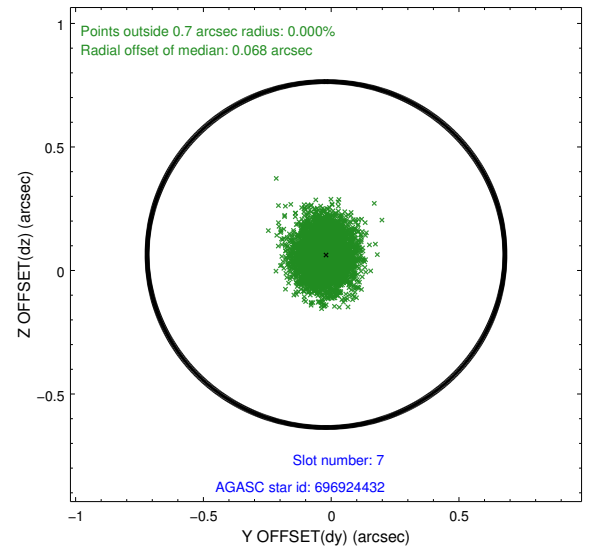
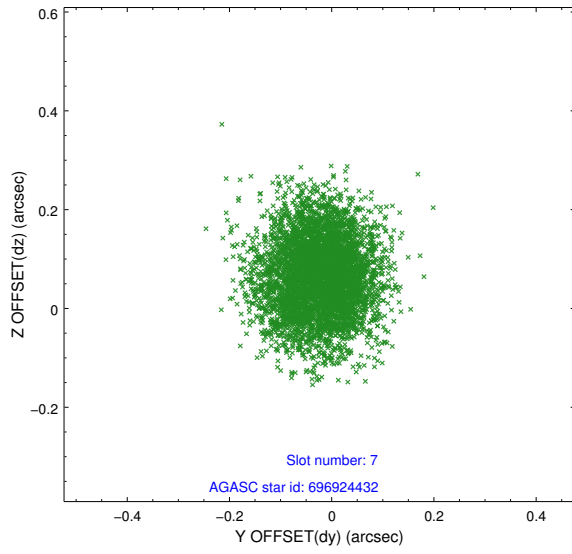
2.4.3 Slot 5



2.4.4 Slot 6

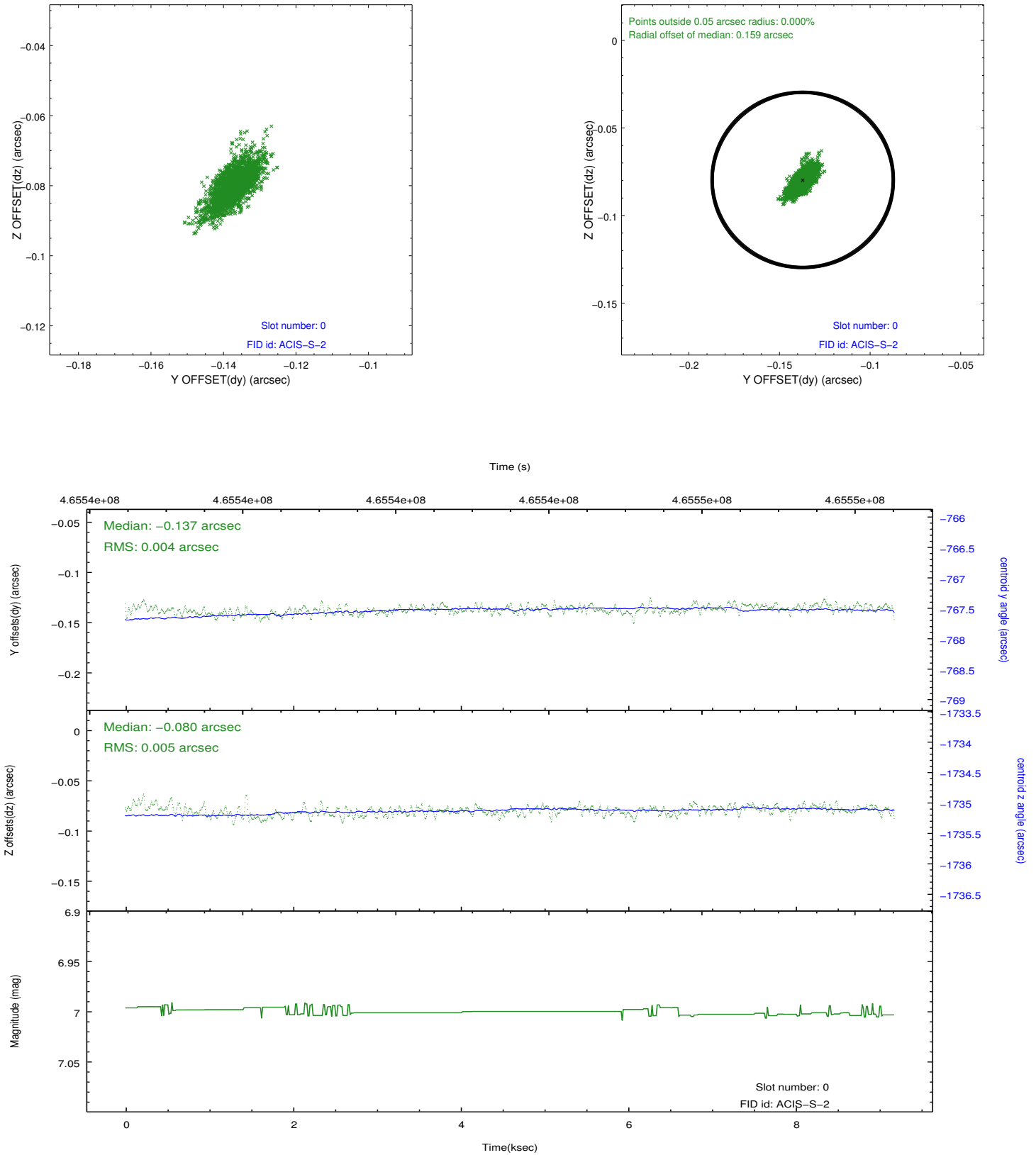


2.4.5 Slot 7

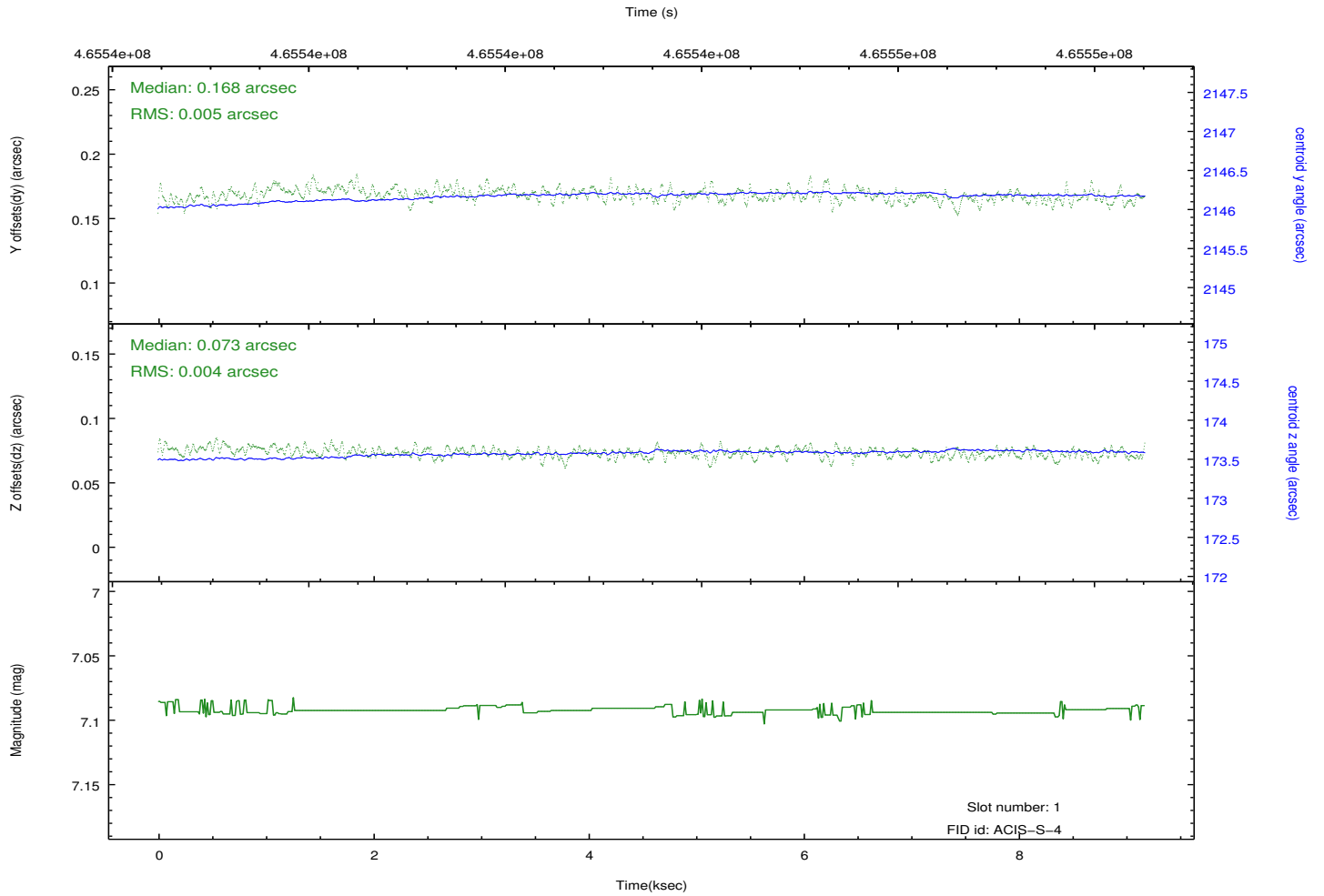
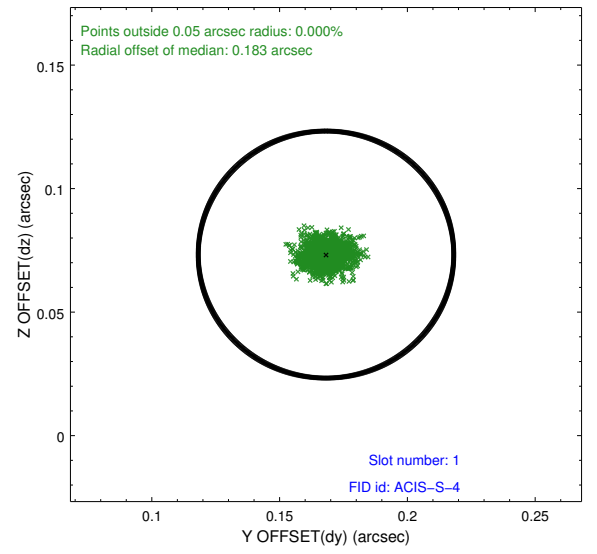
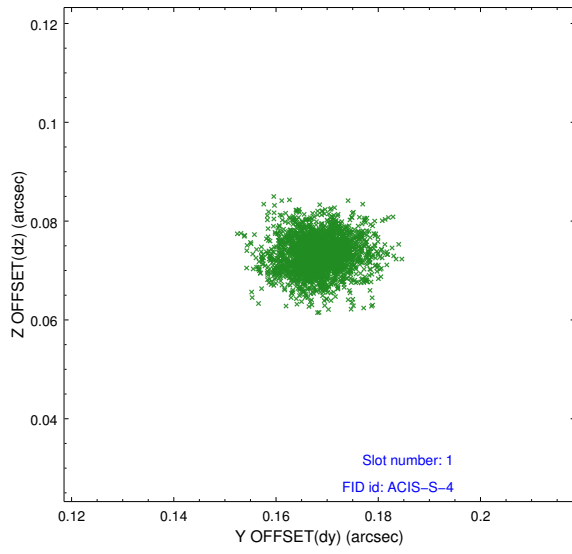


2.5 FID Slots

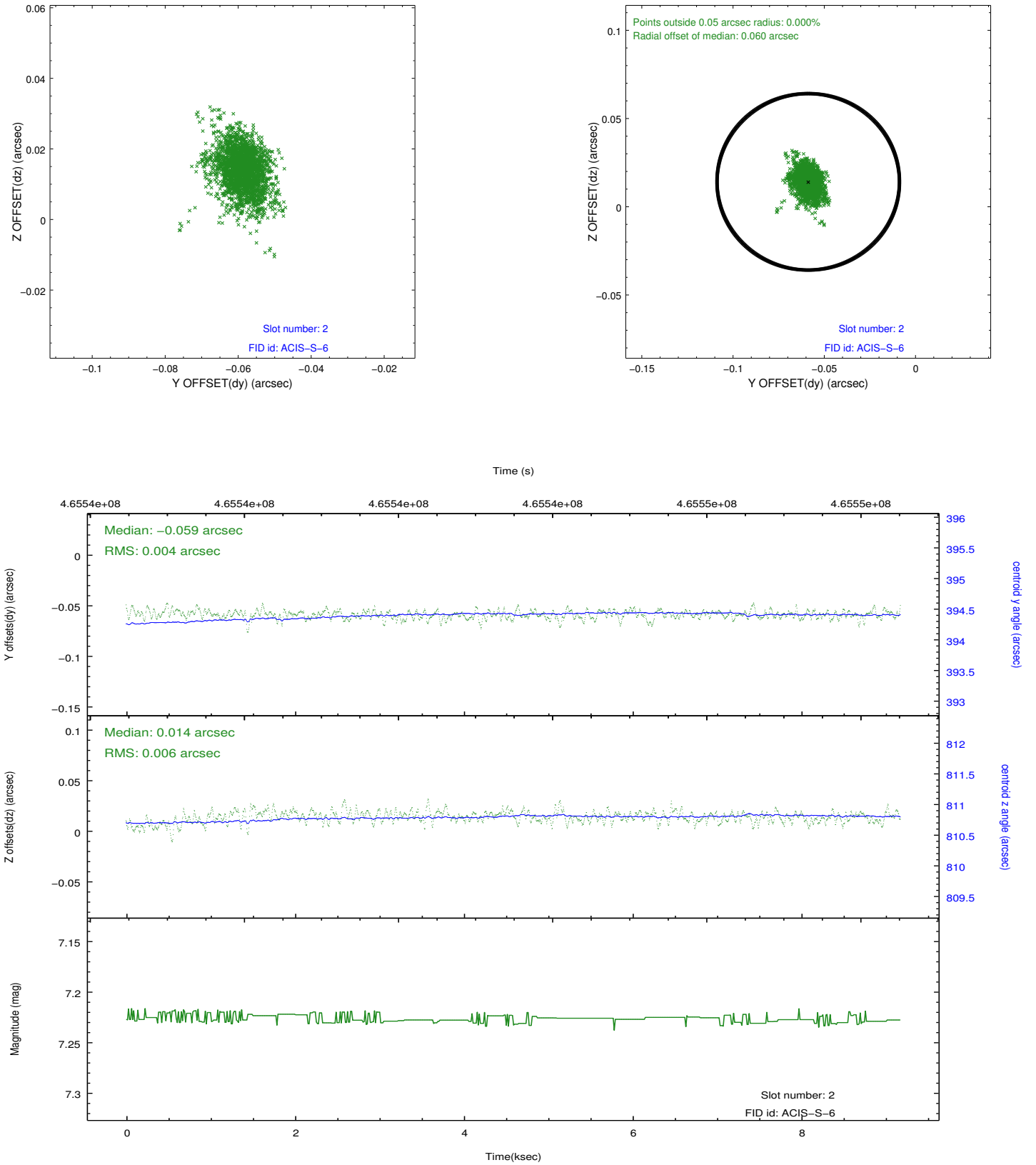
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.7885000675917

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.