

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13388 - L2 Version 2
Chandra X-Ray Center

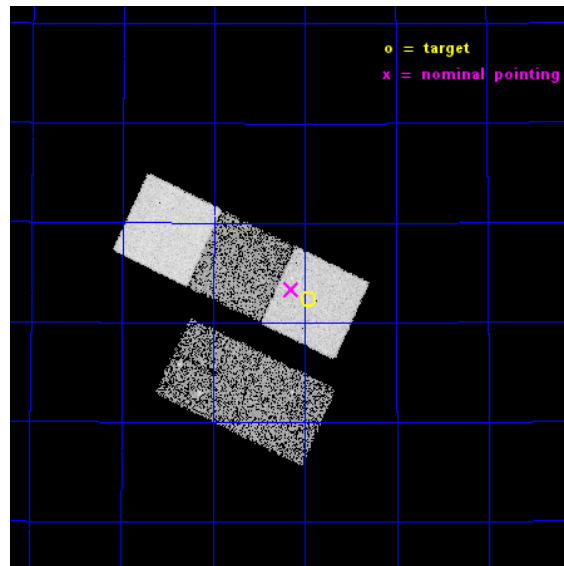
L2 Processing Date : Nov 27 2014

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1 Front

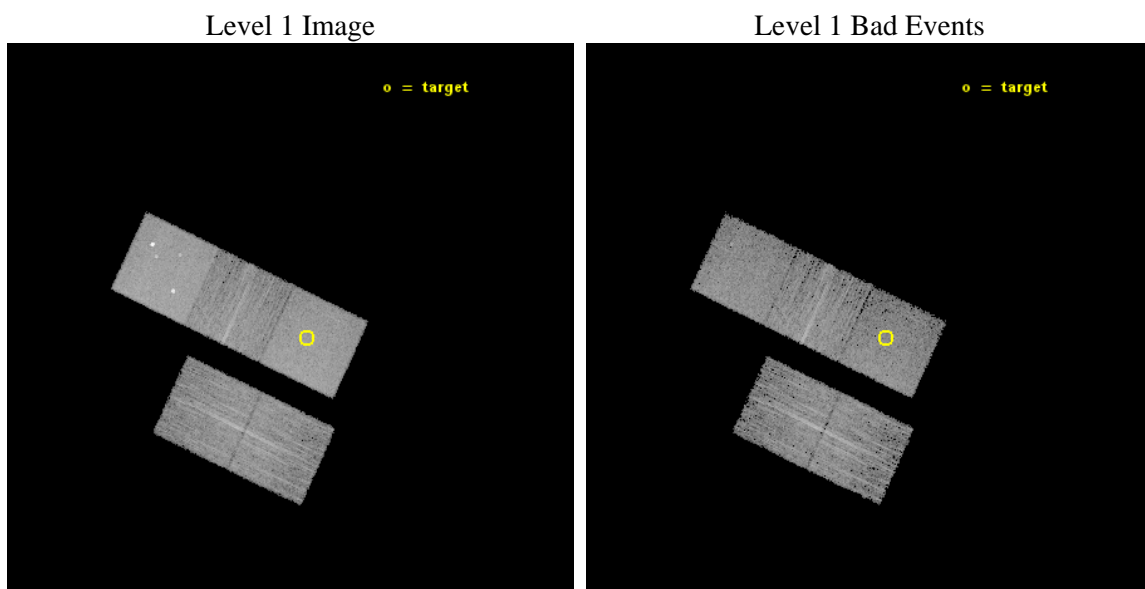
seq_num	801075	Sequence number
obs_id	13388	Observation id
title	Assembling a Large Sample of Fossil Groups	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1120+5022	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	170.239167	Observer's specified target RA [deg]
dec_targ	50.371944	Observer's specified target Dec [deg]
ra_nom	170.28700793724	Nominal RA [deg]
dec_nom	50.389135380677	Nominal Dec [deg]
roll_nom	25.374952369003	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9770.6022537947	Sum of GTIs [s]
livetime	9642.9421423361	Livetime [s]
ontime2	9767.2971234322	Sum of GTIs [s]
ontime3	9770.4791337848	Sum of GTIs [s]
ontime5	9770.5612137914	Sum of GTIs [s]
ontime6	9770.5201737881	Sum of GTIs [s]
ontime7	9770.6022537947	Sum of GTIs [s]
l2events	85396	Number of level 2 events



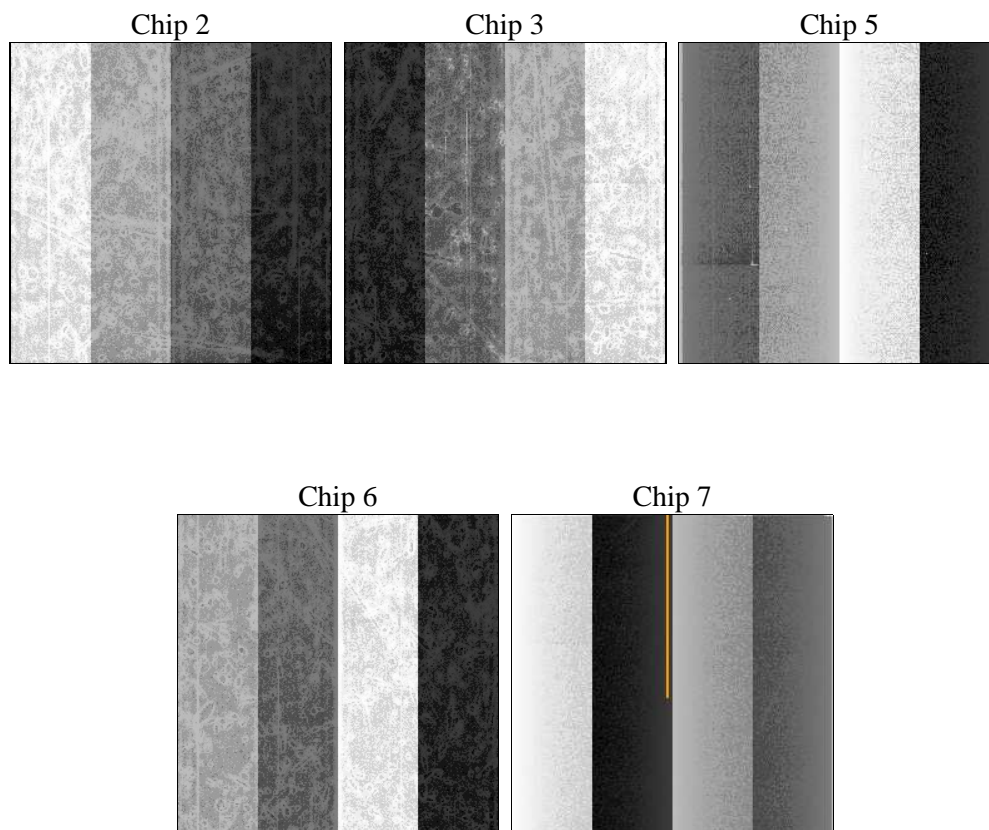
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	9700.097000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	9770.6022537947	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	9767.2971234322	Sum of GTIs [s]
date	2014-11-27T22:51:11	Date and time of file creation	ontime3	9770.4791337848	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	9770.5612137914	Sum of GTIs [s]
			ontime6	9770.5201737881	Sum of GTIs [s]
			ontime7	9770.6022537947	Sum of GTIs [s]
			l1events	318450	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	50990	51725	90080	54601	71054
rejected events	44694	45970	44353	48137	40029
rejected %	87%	88%	49%	88%	56%

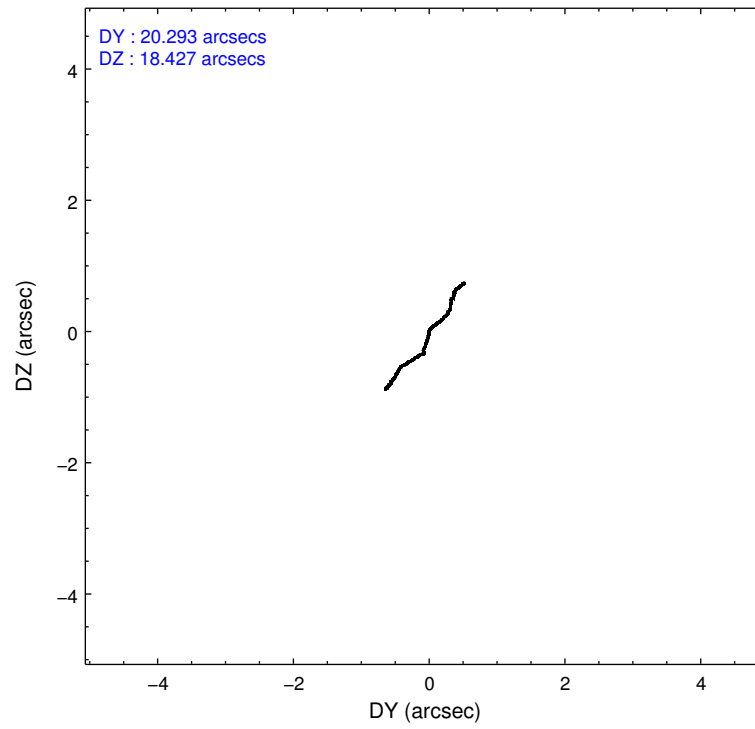
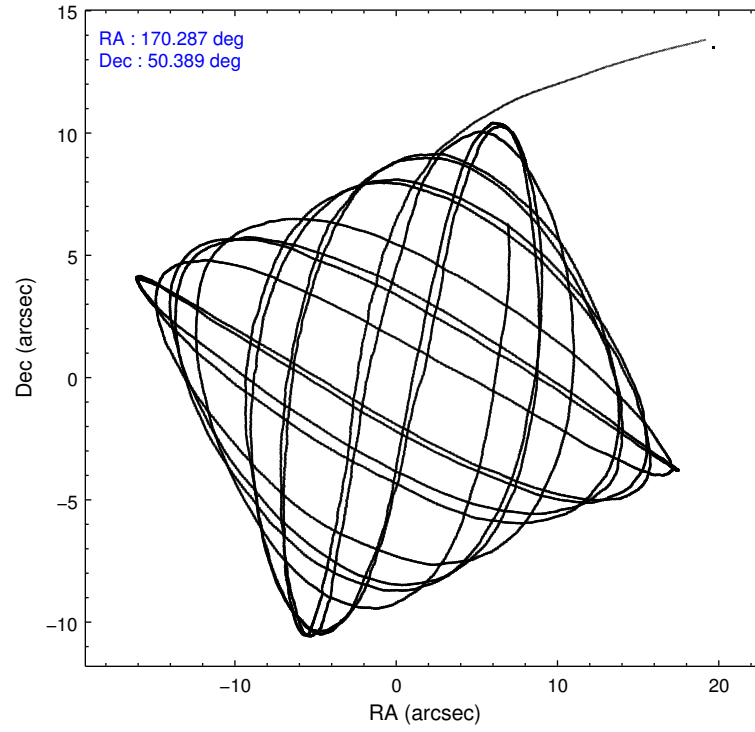
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	2402	1899	5864	2236	2916
	4%	3%	6%	4%	4%
grade 1 events	26	30	238	27	84
	0%	0%	0%	0%	0%
grade 2 events	1487	1297	14625	1473	6231
	2%	2%	16%	2%	8%
grade 3 events	623	621	1568	649	2707
	1%	1%	1%	1%	3%
grade 4 events	664	638	1440	625	2641
	1%	1%	1%	1%	3%
grade 5 events	2248	2728	6422	2579	7294
	4%	5%	7%	4%	10%
grade 6 events	1120	1300	22245	1481	16536
	2%	2%	24%	2%	23%
grade 7 events	42420	43212	37678	45531	32645
	83%	83%	41%	83%	45%

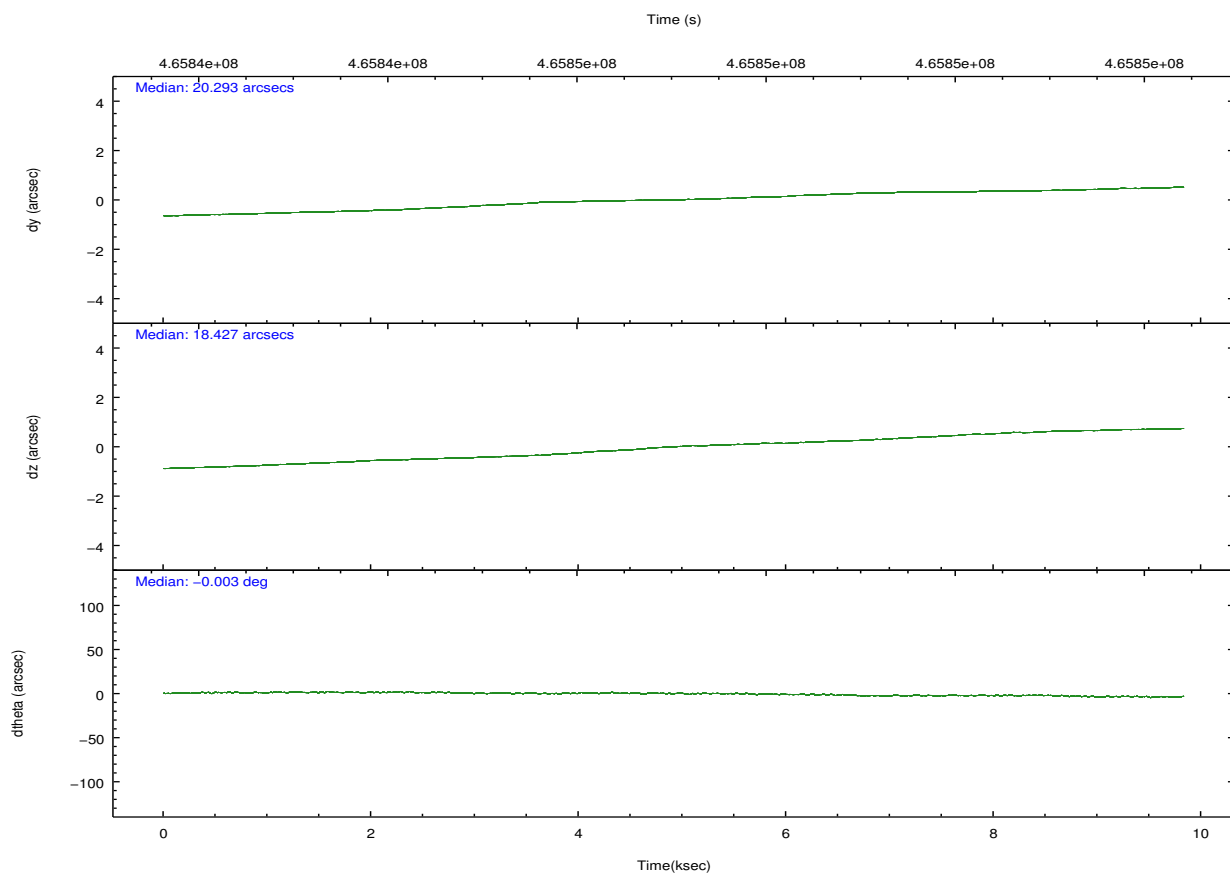
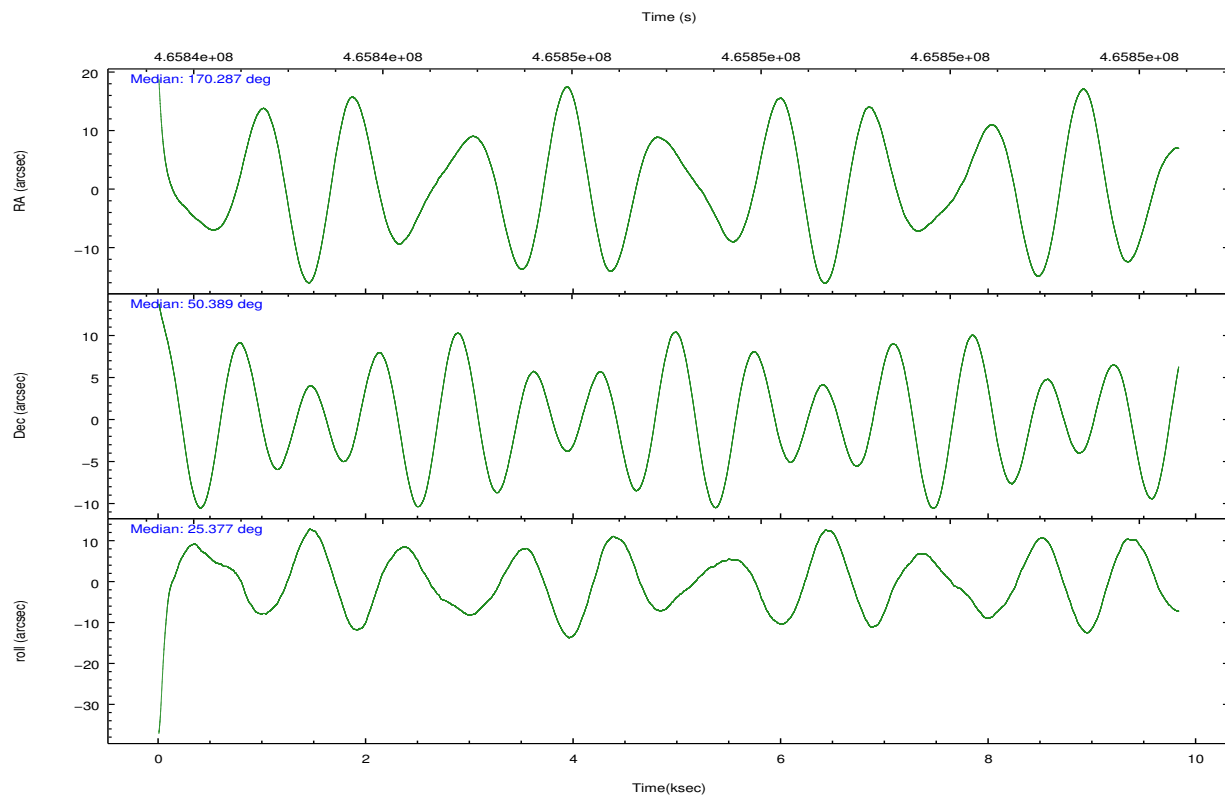
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23567	ACIS-23567
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	170.263170	170.2870079372375
[deg] Pointing Dec	50.366448	50.38913538067673
[deg] Pointing Roll	25.236709	25.37495236900328
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.145094680475
[mm] SIM translation stage offset	0	0.01257209746719923
[s] Observation start time (MET)	465842249.184000	465841045.0481
Observation start date	2012-10-05T16:36:22	2012-10-05T16:17:25
[s] Observation end time (MET)	465851950.184000	465852176.5487
Observation end date	2012-10-05T19:18:03	2012-10-05T19:22:56
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



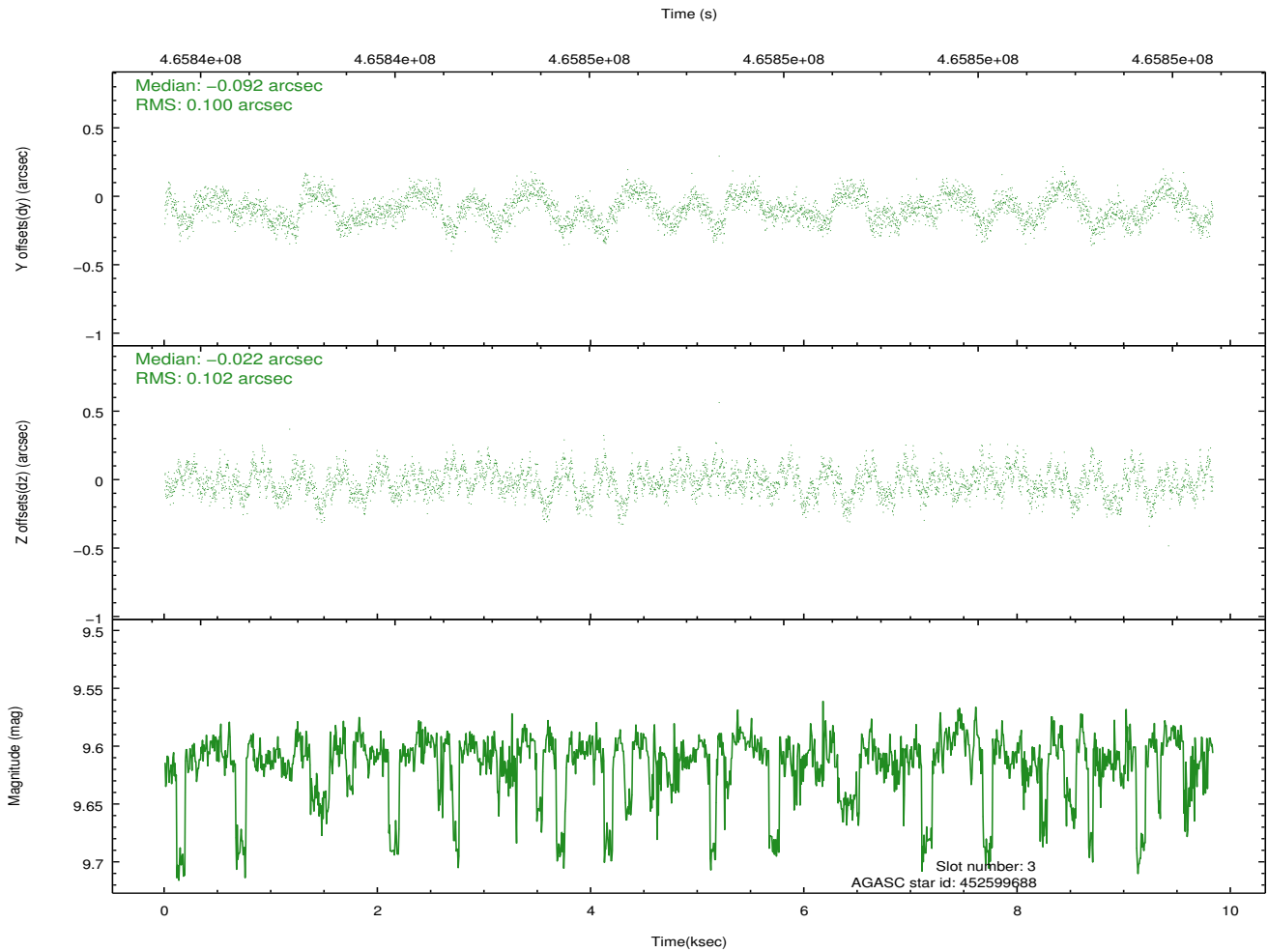
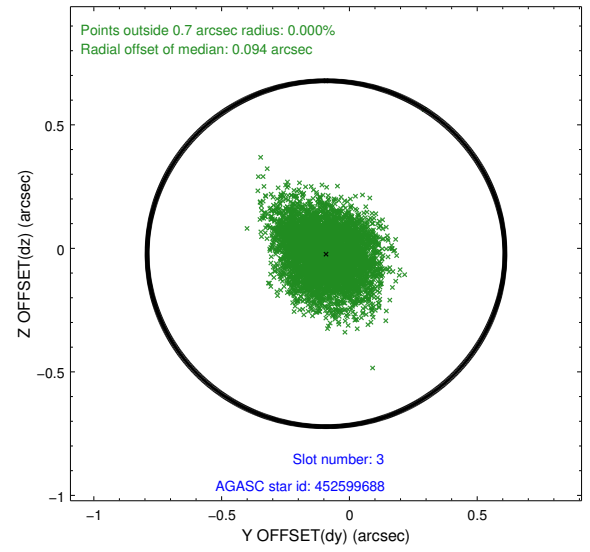
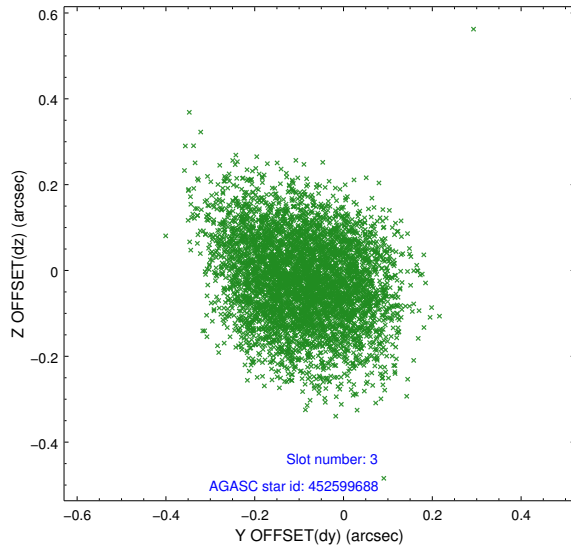


Slot Statistics

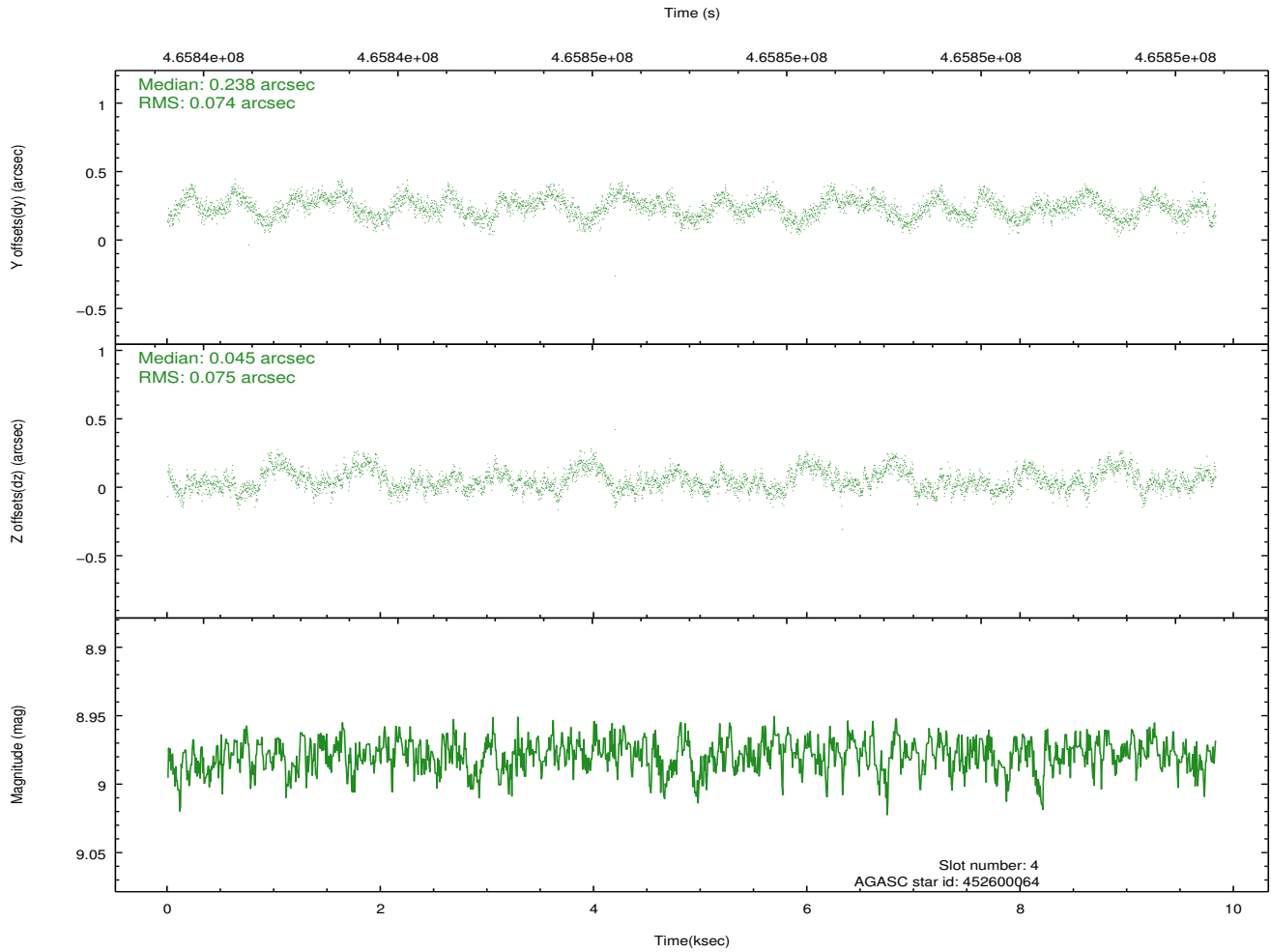
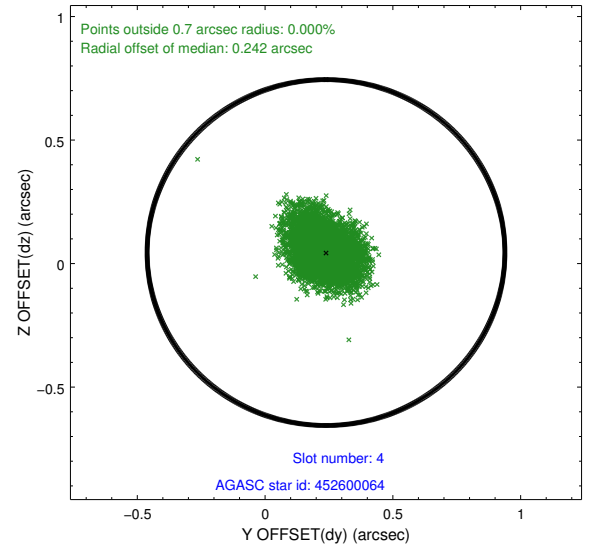
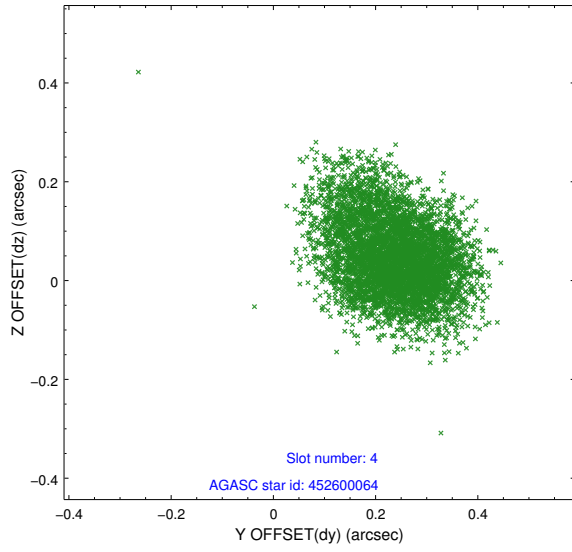
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	2397	-0.103	-0.038	0.010	0.018	0.000000	0.000000	-773.52	-1739.76
1	FID		ACIS-S-4	7.02	2398	0.228	0.060	0.007	0.012	0.000000	0.000000	2139.87	168.19
2	FID		ACIS-S-5	7.05	2398	-0.157	-0.013	0.011	0.017	0.000000	0.000000	-1825.69	162.49
3	GUIDE	used	452599688	9.61	4761	-0.092	-0.022	0.154	0.240	170.489137	50.688160	960.60	828.70
4	GUIDE	used	452600064	8.98	4792	0.238	0.045	0.112	0.179	169.391515	50.257296	-1976.46	510.78
5	GUIDE	used	452600688	10.16	4764	-0.286	-0.221	0.270	0.404	170.238287	50.792739	602.64	1412.66
6	GUIDE	used	452609952	9.37	4796	0.169	0.019	0.143	0.232	168.991649	50.640855	-2193.67	2154.73
7	GUIDE	used	452609656	8.51	4794	-0.040	0.148	0.105	0.162	171.307828	50.498988	2373.35	-571.42

2.4 Star Slots

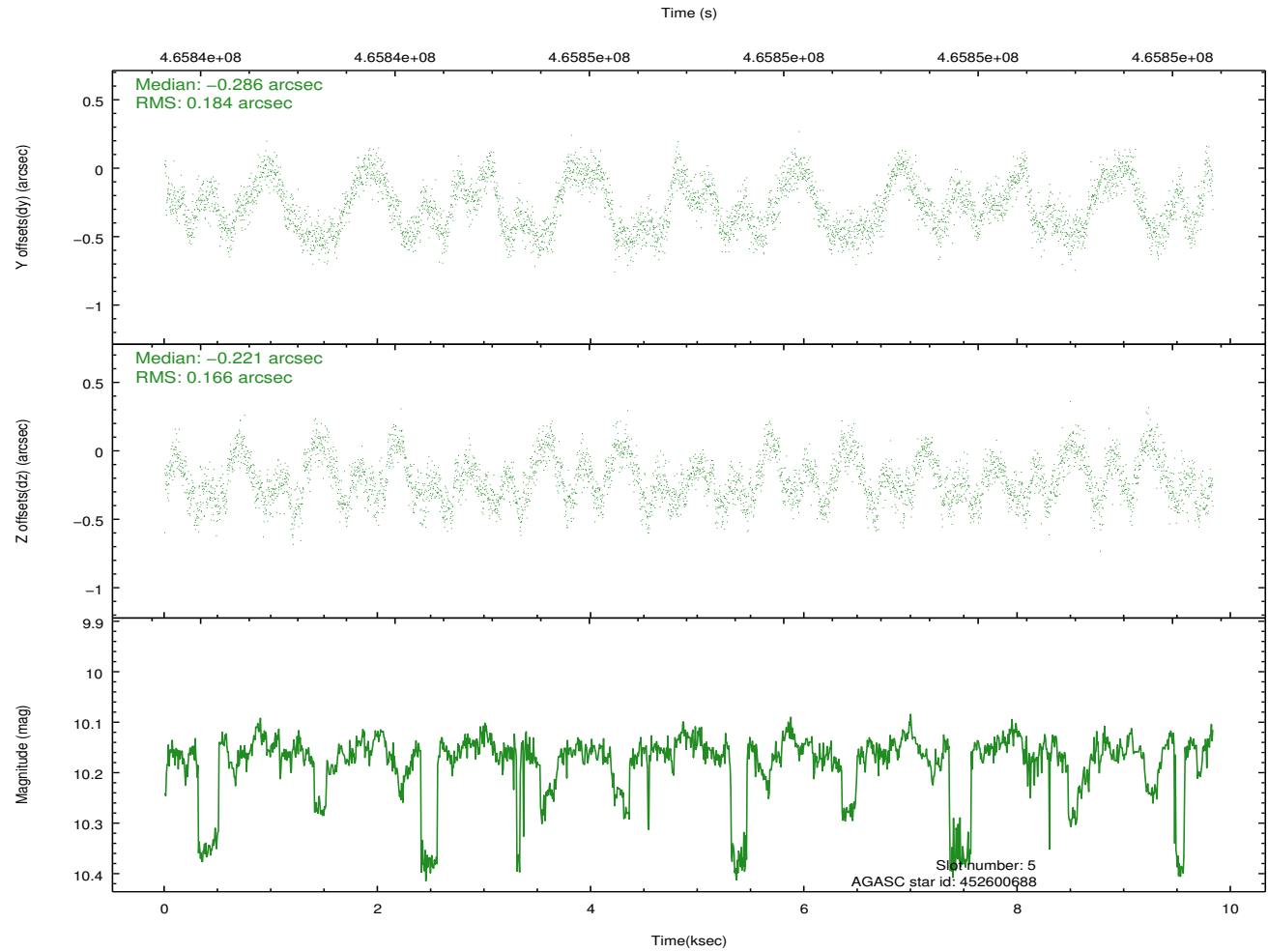
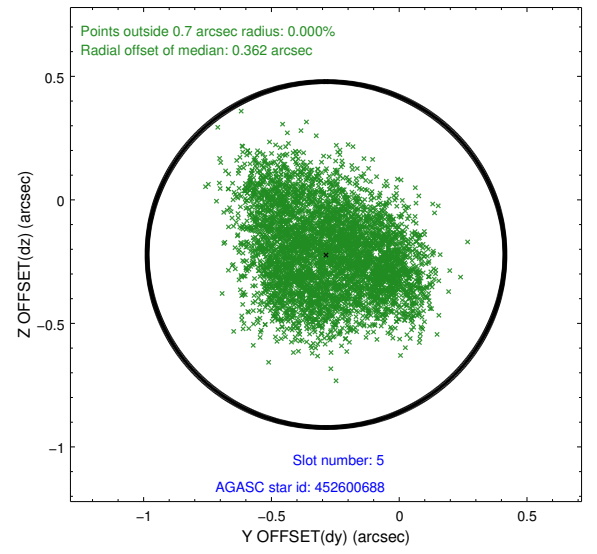
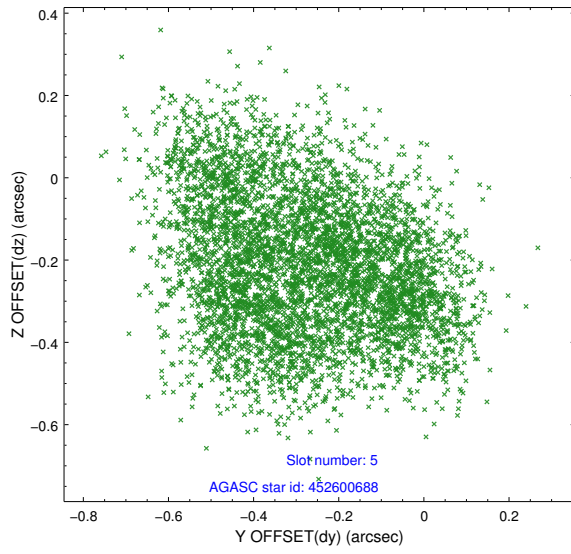
2.4.1 Slot 3



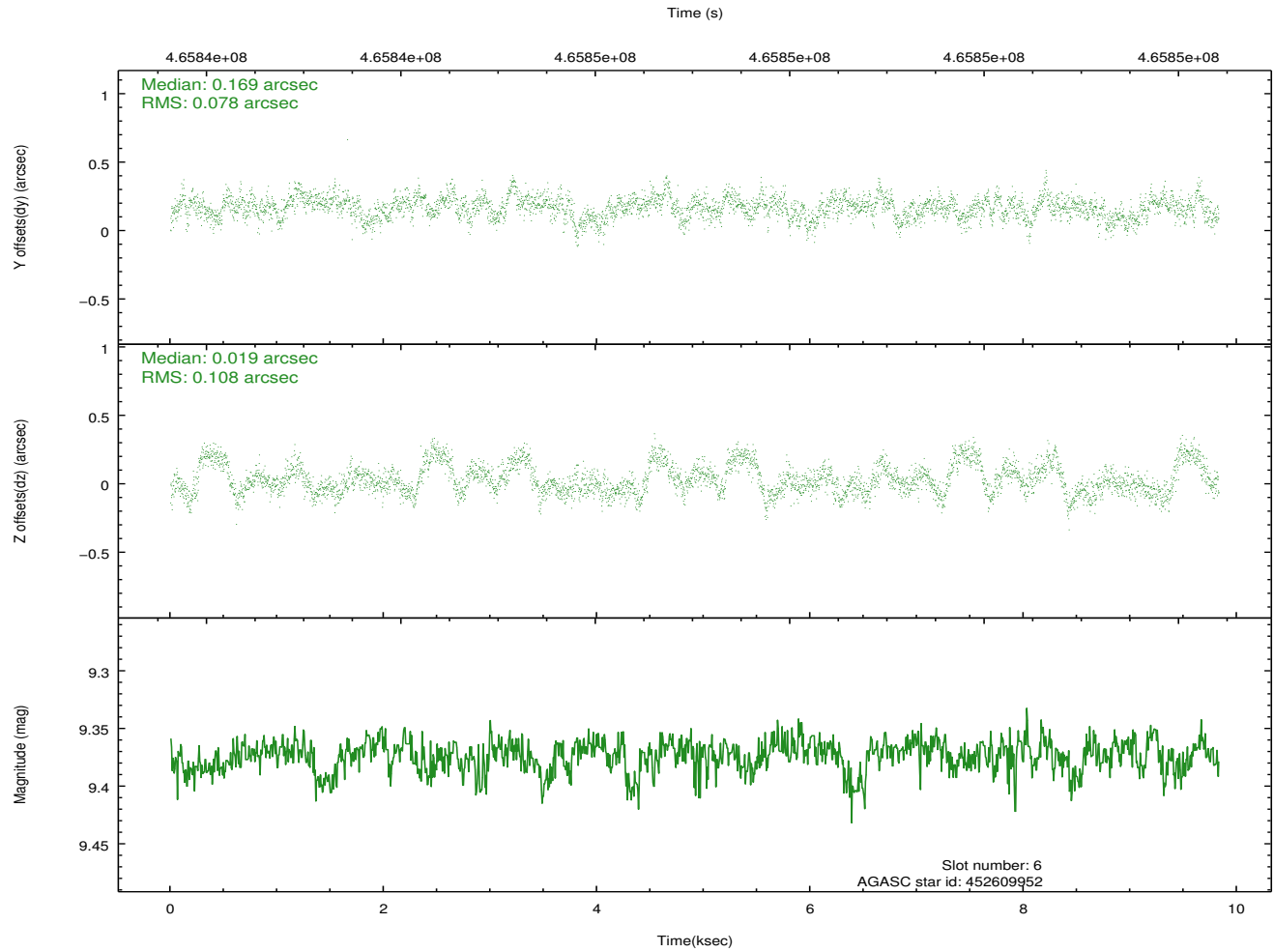
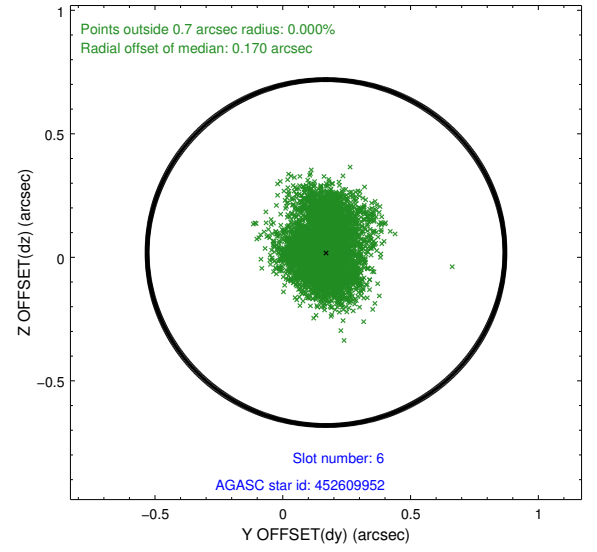
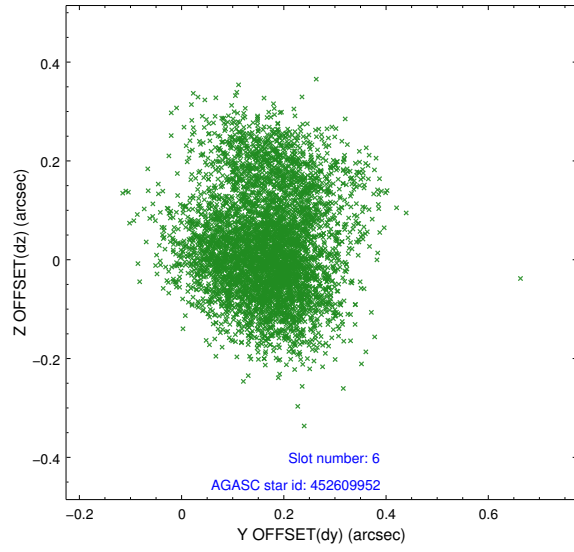
2.4.2 Slot 4



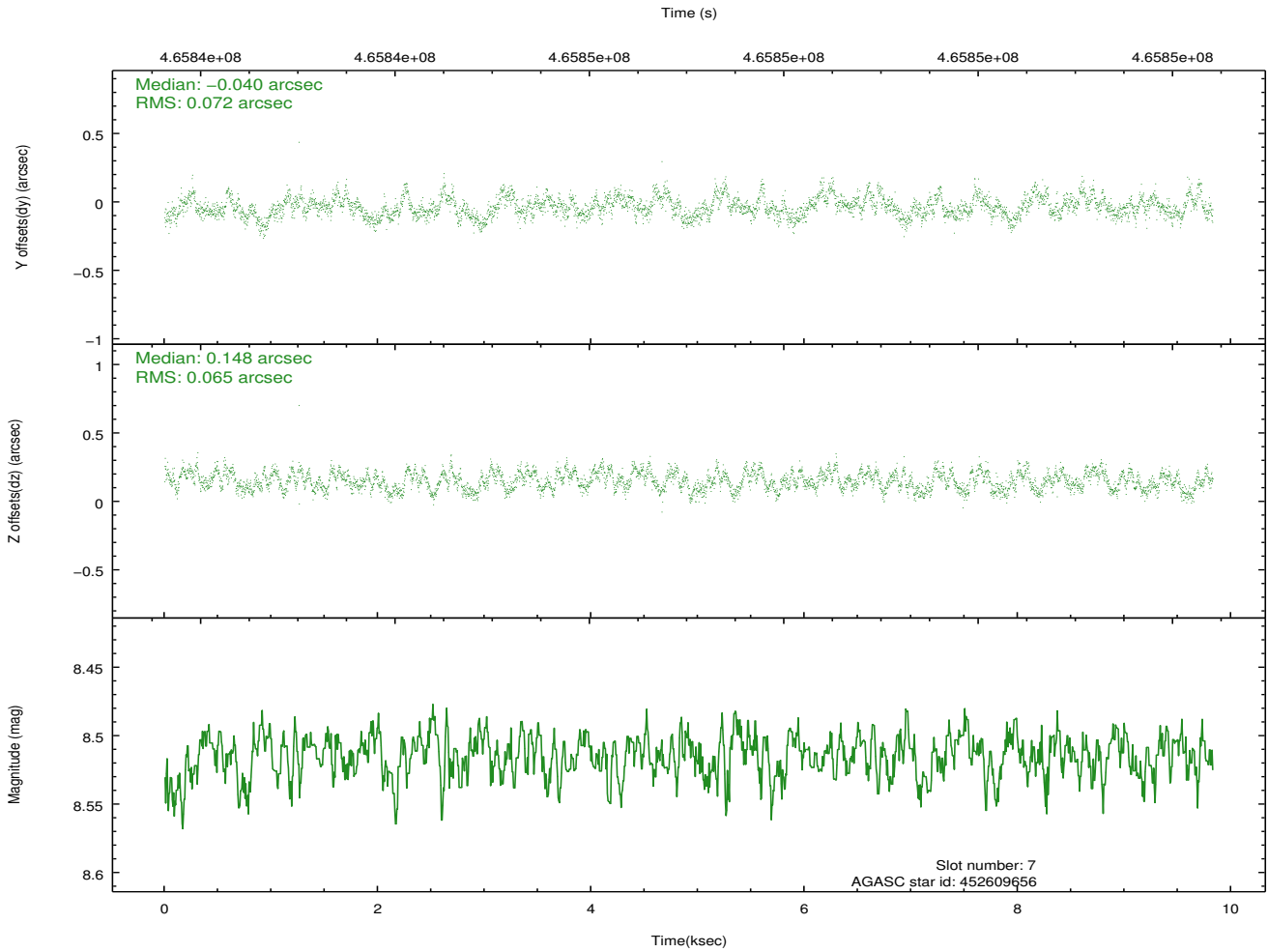
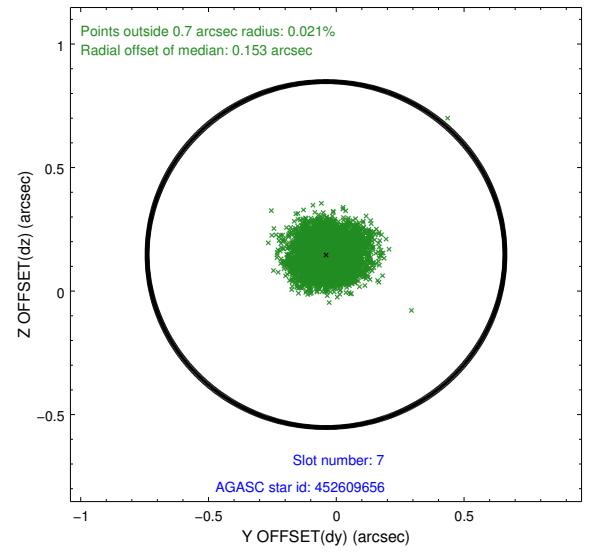
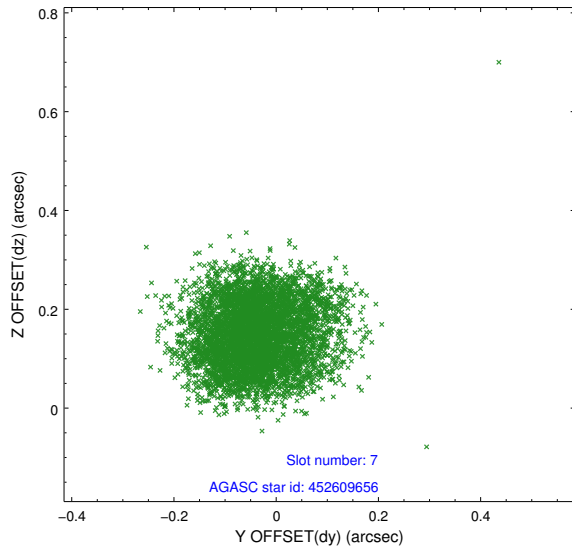
2.4.3 Slot 5



2.4.4 Slot 6

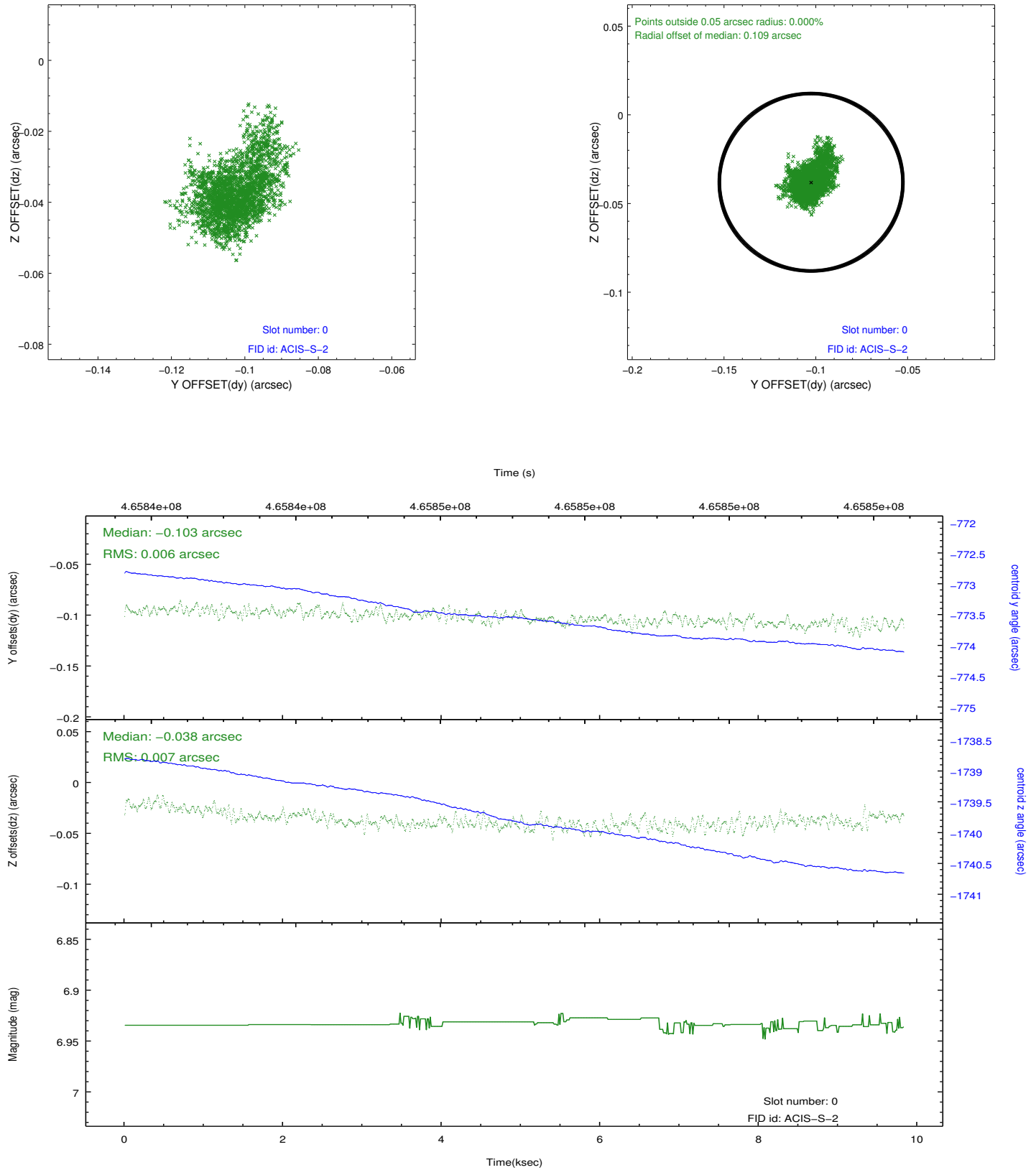


2.4.5 Slot 7

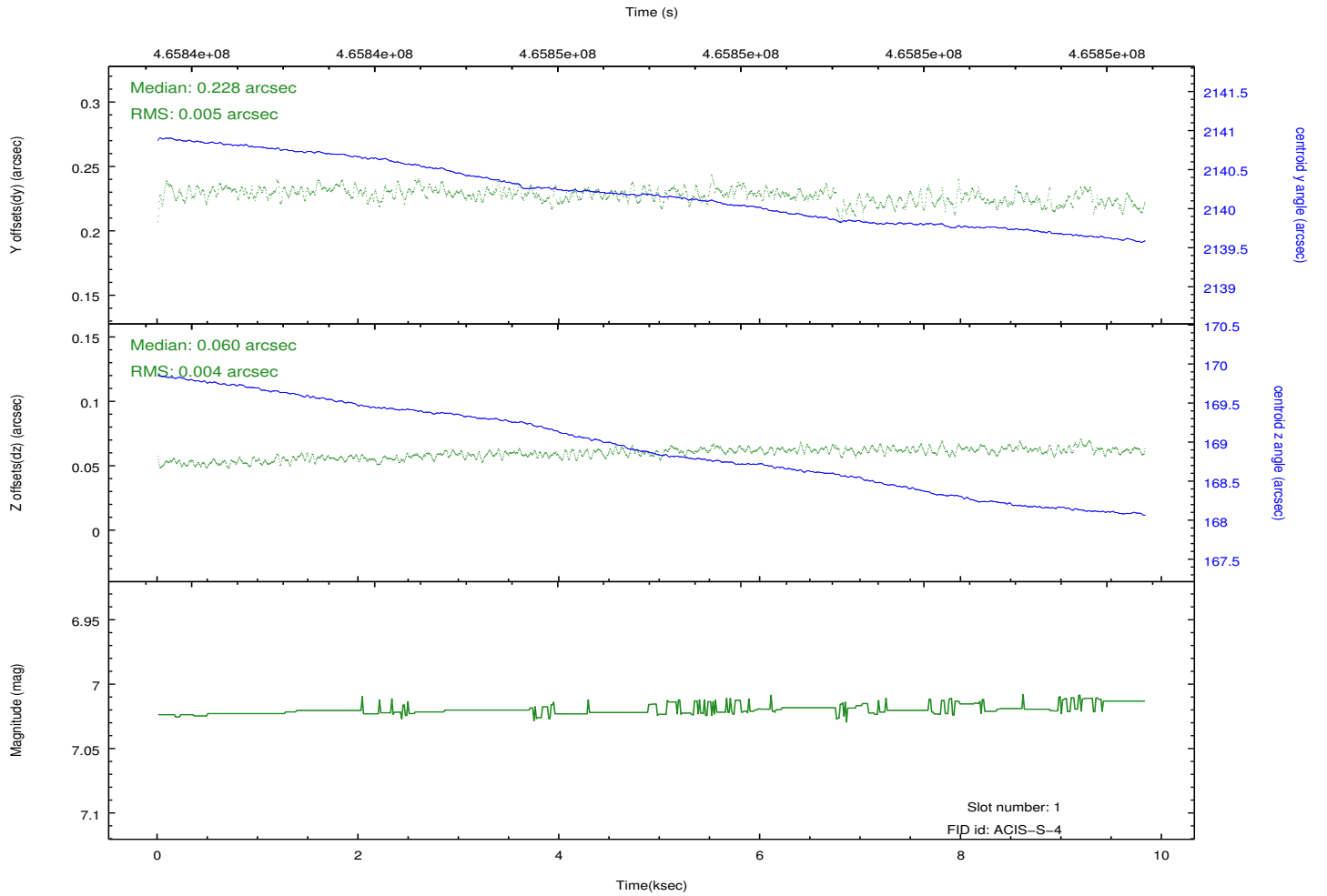
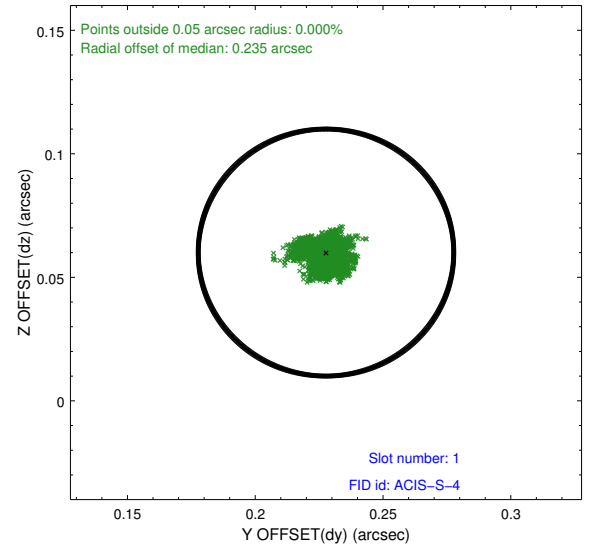
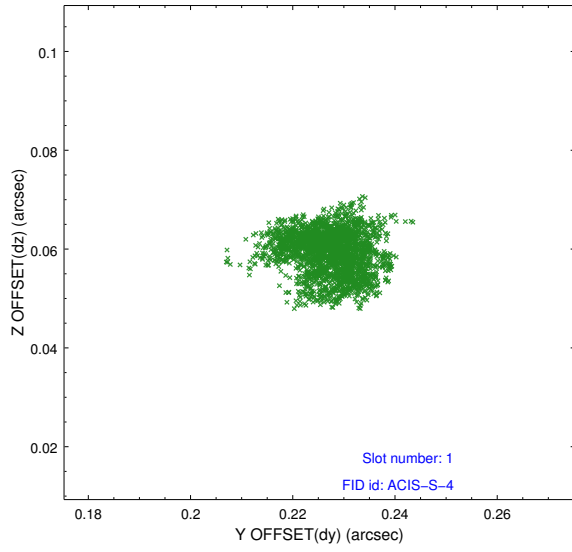


2.5 FID Slots

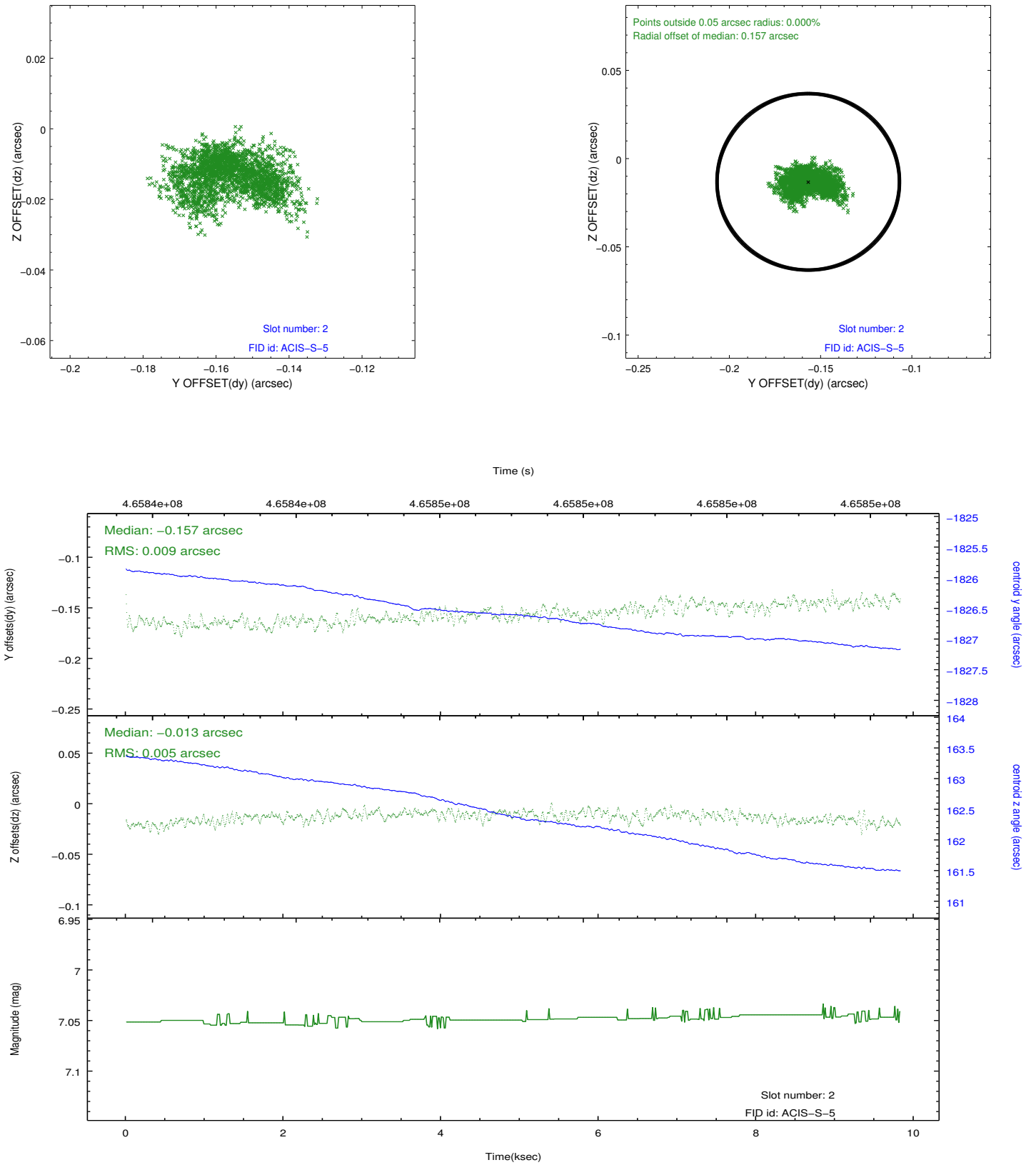
2.5.1 Slot 0



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	9.7706022537947

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.