

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12480 - L2 Version 2
Chandra X-Ray Center

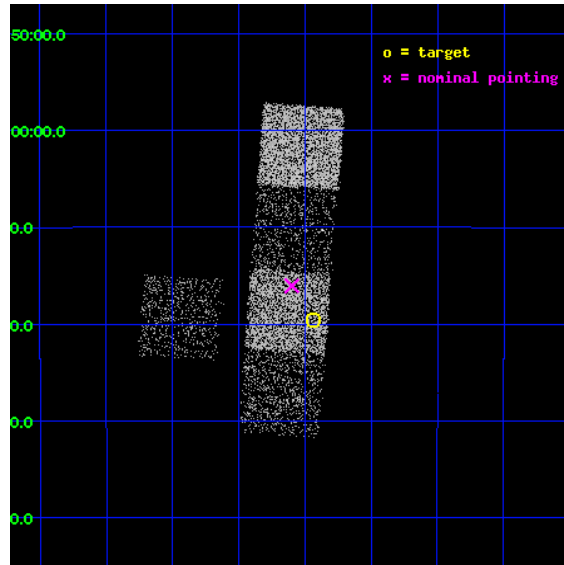
L2 Processing Date : Feb 4 2012

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1 Front

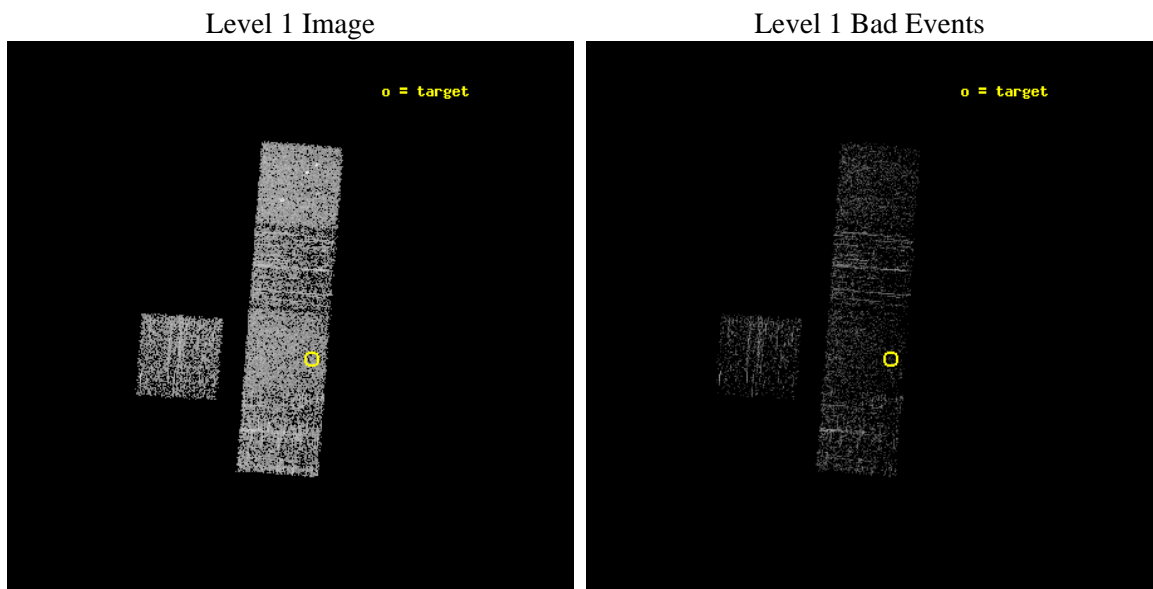
seq_num	401221	Sequence number
obs_id	12480	Observation id
title	The Nearest and Brightest Quiescent Low Mass X-ray Binaries	Propos
observer	Prof. Robert Rutledge	Principal investigator
object	1RXS J184756.1-221938	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	281.98375	Observer's specified target RA [deg]
dec_targ	-22.327222	Observer's specified target Dec [deg]
ra_nom	282.02466045125	Nominal RA [deg]
dec_nom	-22.267782655928	Nominal Dec [deg]
roll_nom	94.439893353981	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1041.6000080109	Sum of GTIs [s]
livetime	1027.9907370914	Livetime [s]
ontime3	1041.6000080109	Sum of GTIs [s]
ontime5	1041.6000080109	Sum of GTIs [s]
ontime6	1041.6000080109	Sum of GTIs [s]
ontime7	1041.6000080109	Sum of GTIs [s]
ontime8	1041.6000080109	Sum of GTIs [s]
l2events	12141	Number of level 2 events



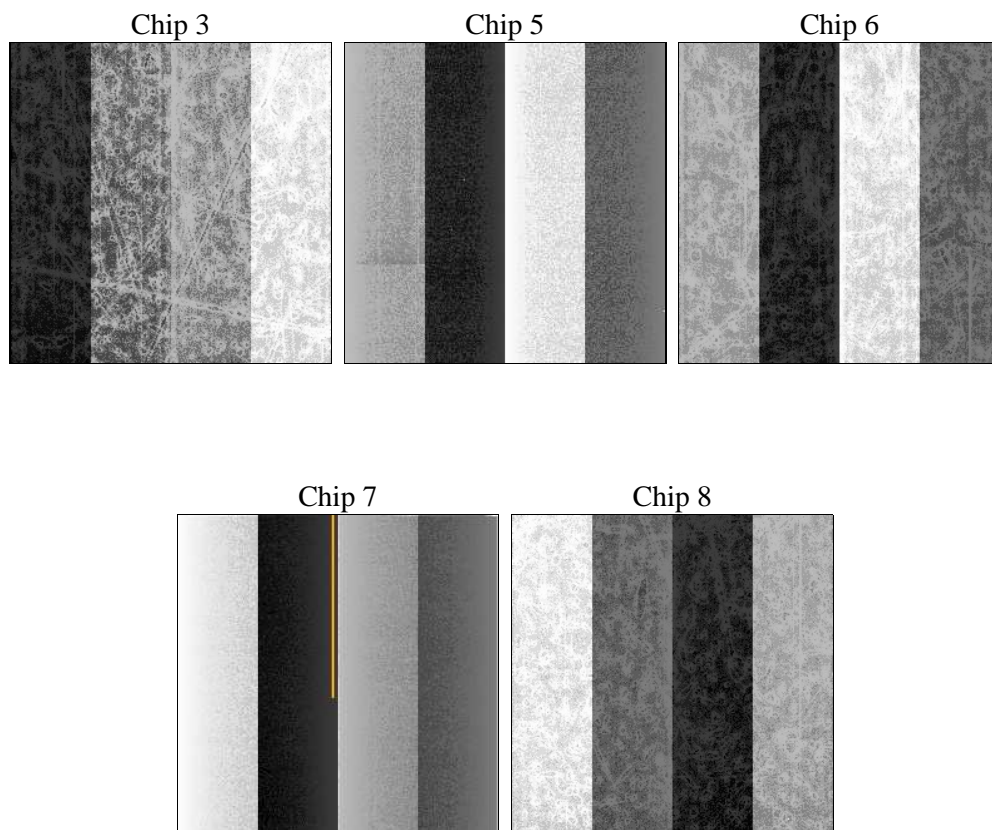
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	1041.6000080109	Sum of GTIs [s]
caldbver	4.4.7	 	ontime3	1041.6000080109	Sum of GTIs [s]
date	2012-02-04T21:14:34	Date and time of file creation	ontime5	1041.6000080109	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	1041.6000080109	Sum of GTIs [s]
			ontime7	1041.6000080109	Sum of GTIs [s]
			ontime8	1041.6000080109	Sum of GTIs [s]
			l1events	46034	Number of level 1 events

2.1.4 Events

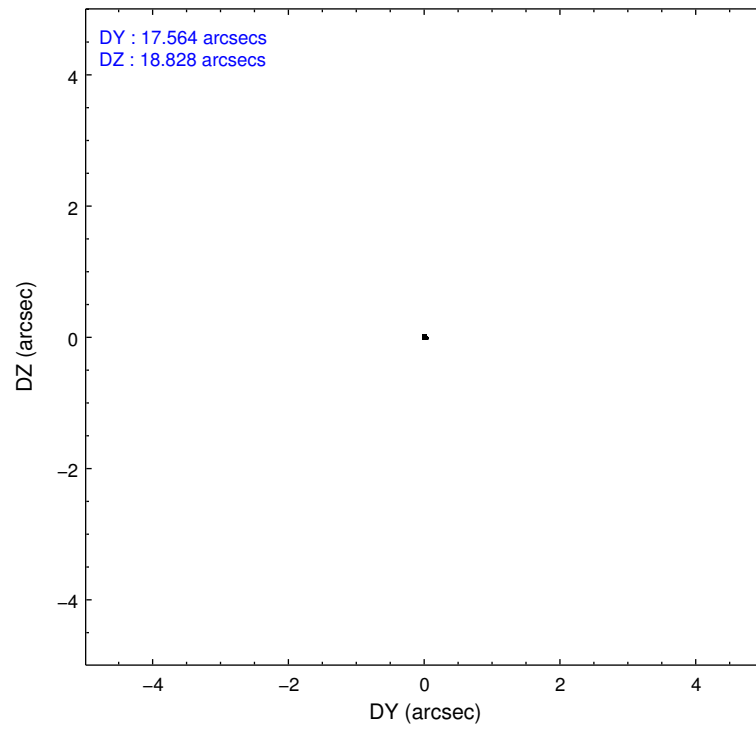
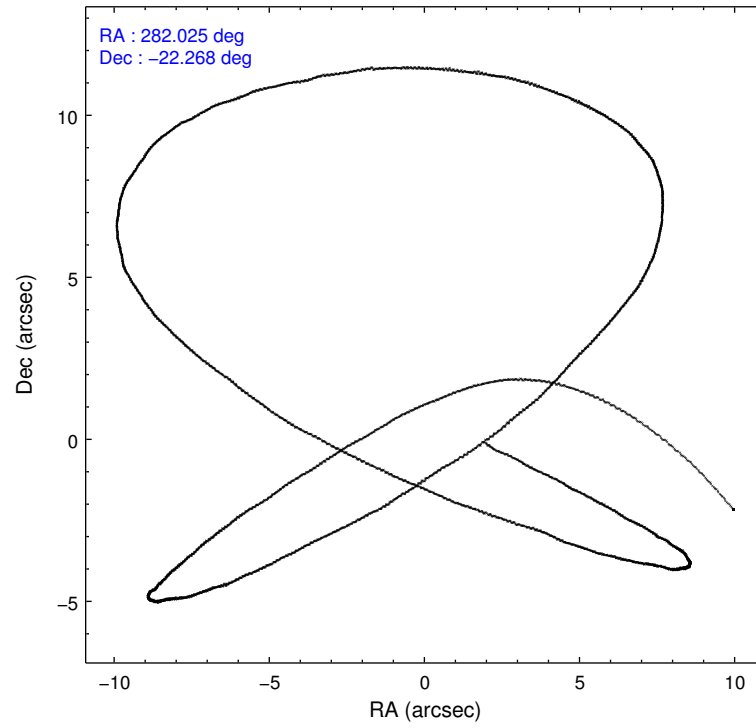
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	6762	12474	7749	9369	9680
rejected events	5998	6148	6824	5123	7166
rejected %	88%	49%	88%	54%	74%

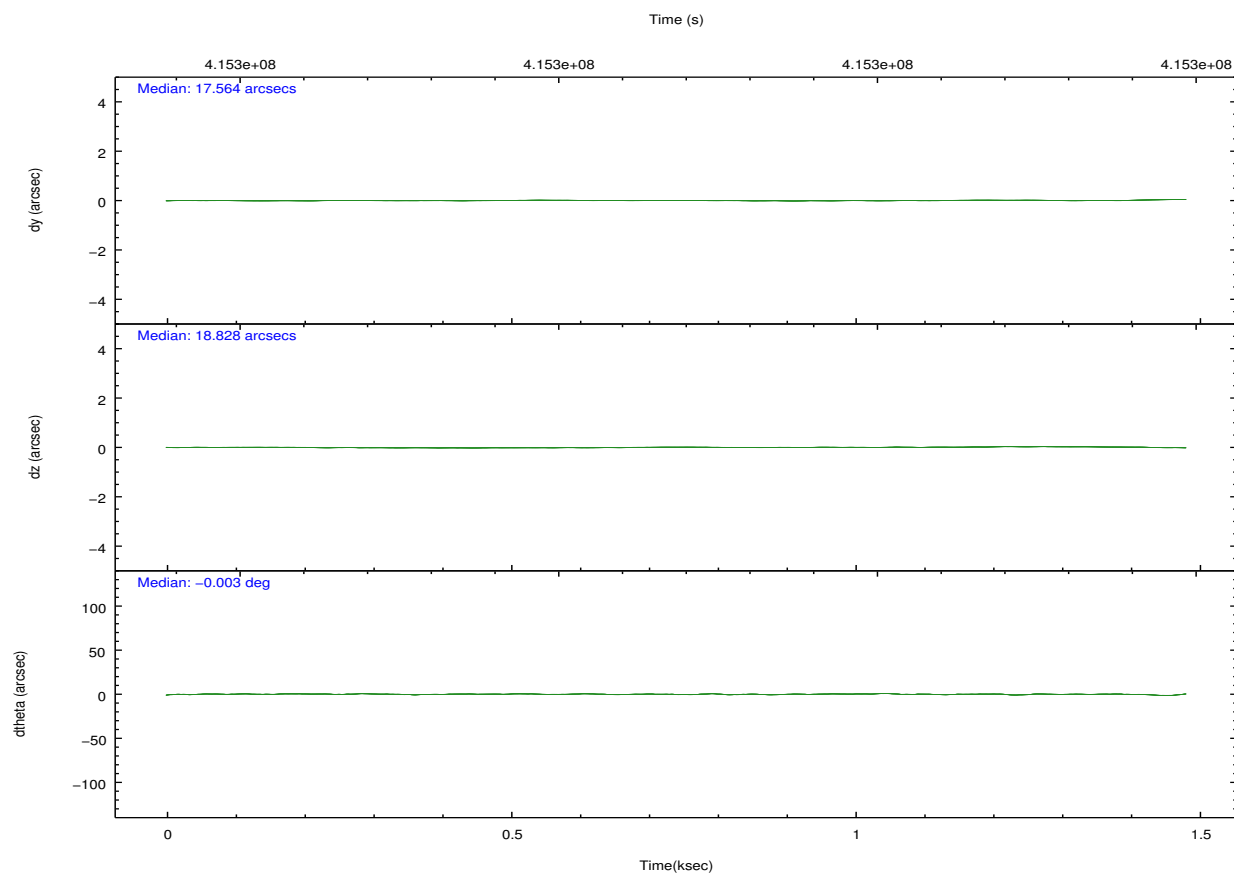
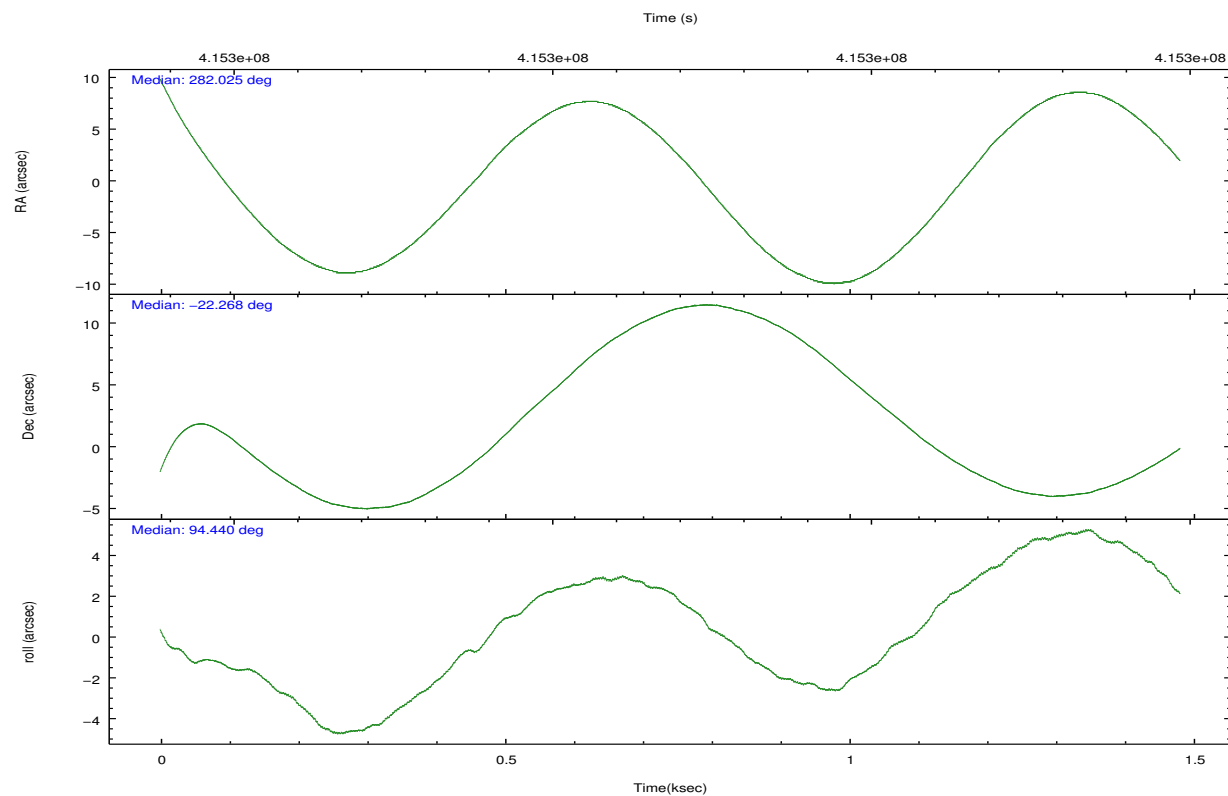
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	281	1039	349	409	773
	4%	8%	4%	4%	7%
grade 1 events	1	32	2	13	8
	0%	0%	0%	0%	0%
grade 2 events	171	1769	225	917	554
	2%	14%	2%	9%	5%
grade 3 events	81	230	89	397	249
	1%	1%	1%	4%	2%
grade 4 events	81	219	101	375	232
	1%	1%	1%	4%	2%
grade 5 events	391	872	357	997	520
	5%	6%	4%	10%	5%
grade 6 events	152	3099	162	2165	708
	2%	24%	2%	23%	7%
grade 7 events	5604	5214	6464	4096	6636
	82%	41%	83%	43%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	282.041591	282.0246604512499	CCD I2 on	N	N
[deg] Pointing Dec	-22.289624	-22.26778265592842	CCD I3 on	O1	Y
[deg] Pointing Roll	94.289735	94.43989335398119	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	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)	415296927.184000	415295844.75974	CCD S5 on	N	N
Observation start date	2011-02-28T16:14:21	2011-02-28T15:57:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	415297927.184000	415298928.9849	On-chip summing requested	N	N
Observation end date	2011-02-28T16:31:01	2011-02-28T16:48:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



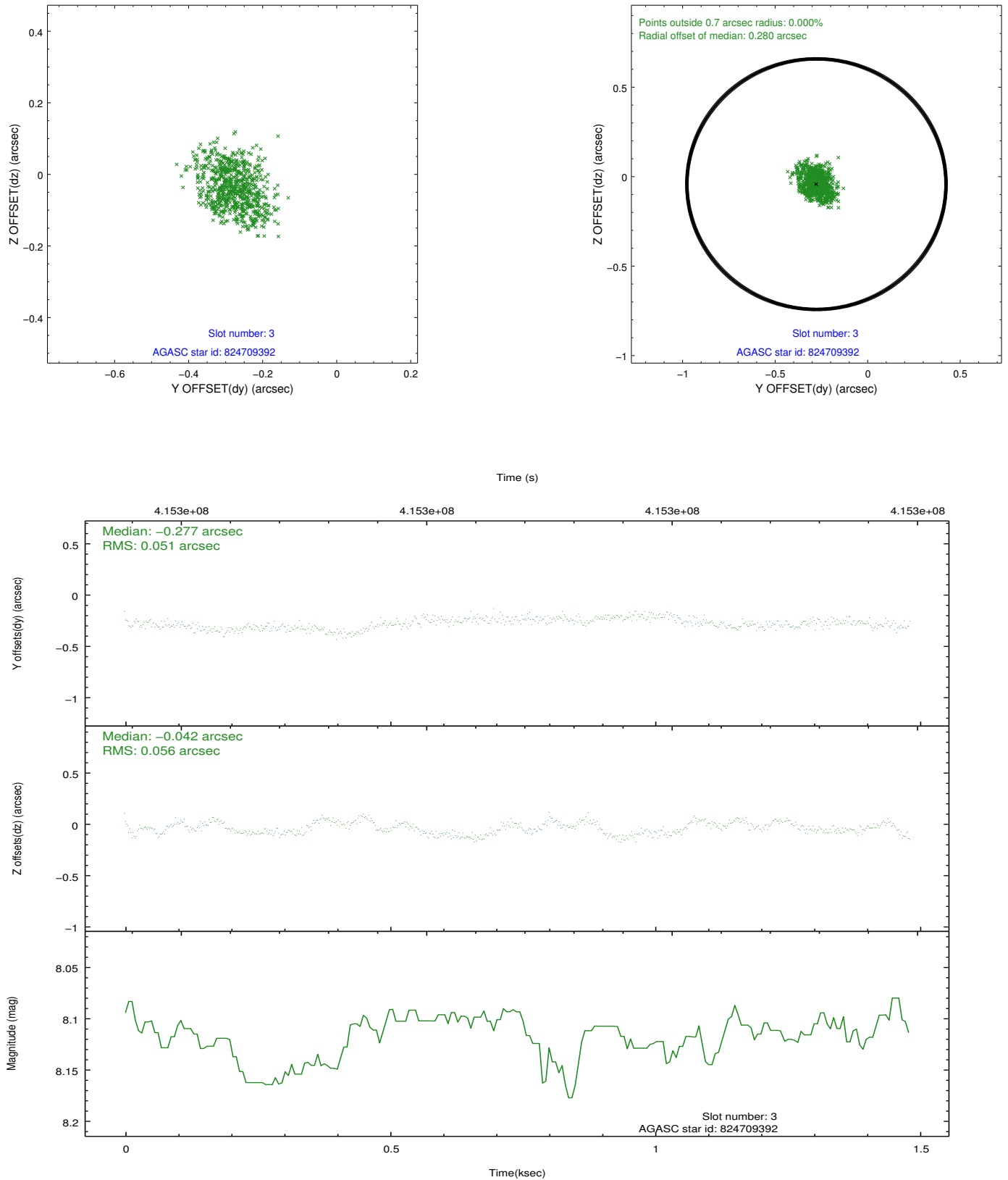


Slot Statistics

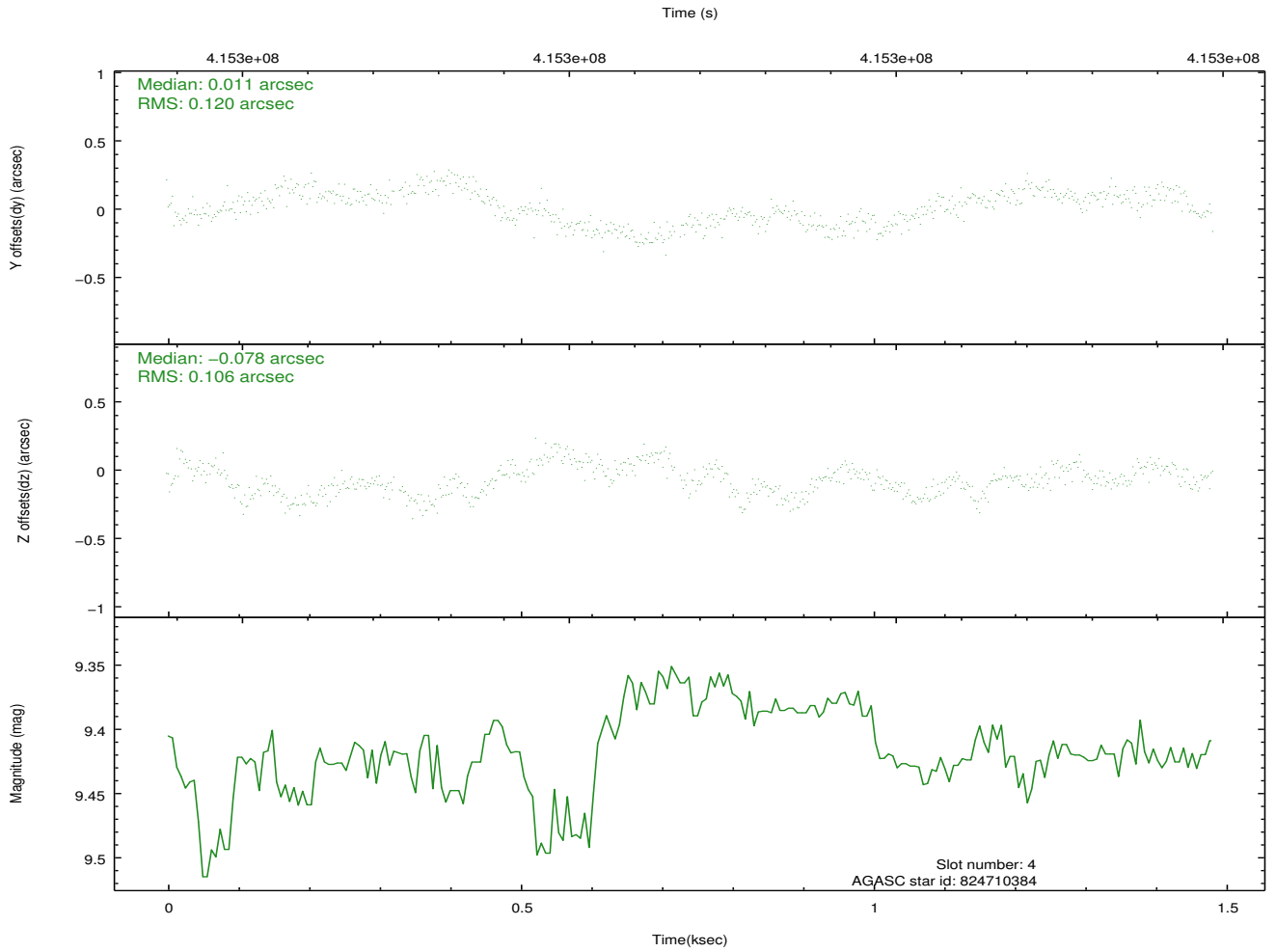
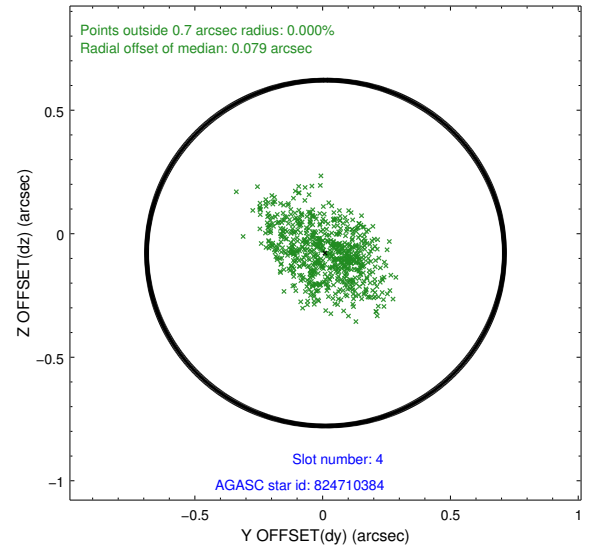
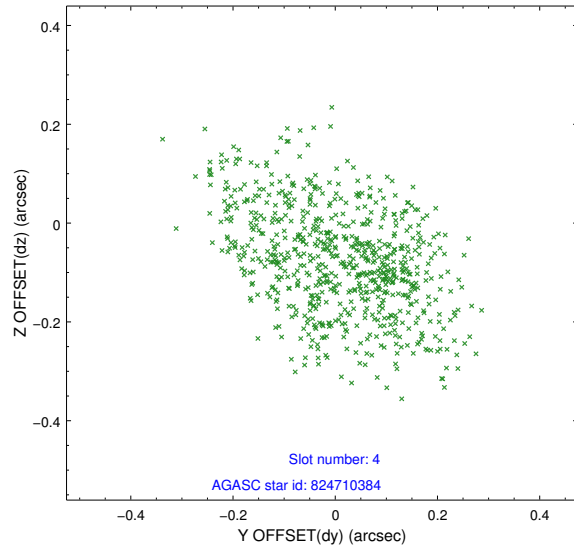
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.89	362	-0.069	-0.035	0.006	0.009	0.000000	0.000000	-770.69	-1740.29
1	FID	ACIS-S-4	6.97	362	0.172	0.043	0.005	0.009	0.000000	0.000000	2140.79	163.60
2	FID	ACIS-S-5	7.00	362	-0.135	0.002	0.006	0.010	0.000000	0.000000	-1817.87	162.35
3	GUIDE	824709392	8.11	723	-0.277	-0.042	0.082	0.130	281.630840	-21.935582	1373.45	1272.87
4	GUIDE	824710384	9.42	718	0.011	-0.078	0.172	0.276	281.966323	-22.171944	444.39	220.77
5	GUIDE	824711104	9.16	721	-0.217	-0.196	0.116	0.180	281.503935	-22.122999	731.46	1743.72
6	GUIDE	899023600	9.14	724	0.214	-0.018	0.096	0.159	281.733173	-22.583489	-976.12	1104.20
7	GUIDE	899024048	6.84	723	0.279	0.320	0.087	0.127	282.550055	-22.848190	-2133.38	-1529.43

2.4 Star Slots

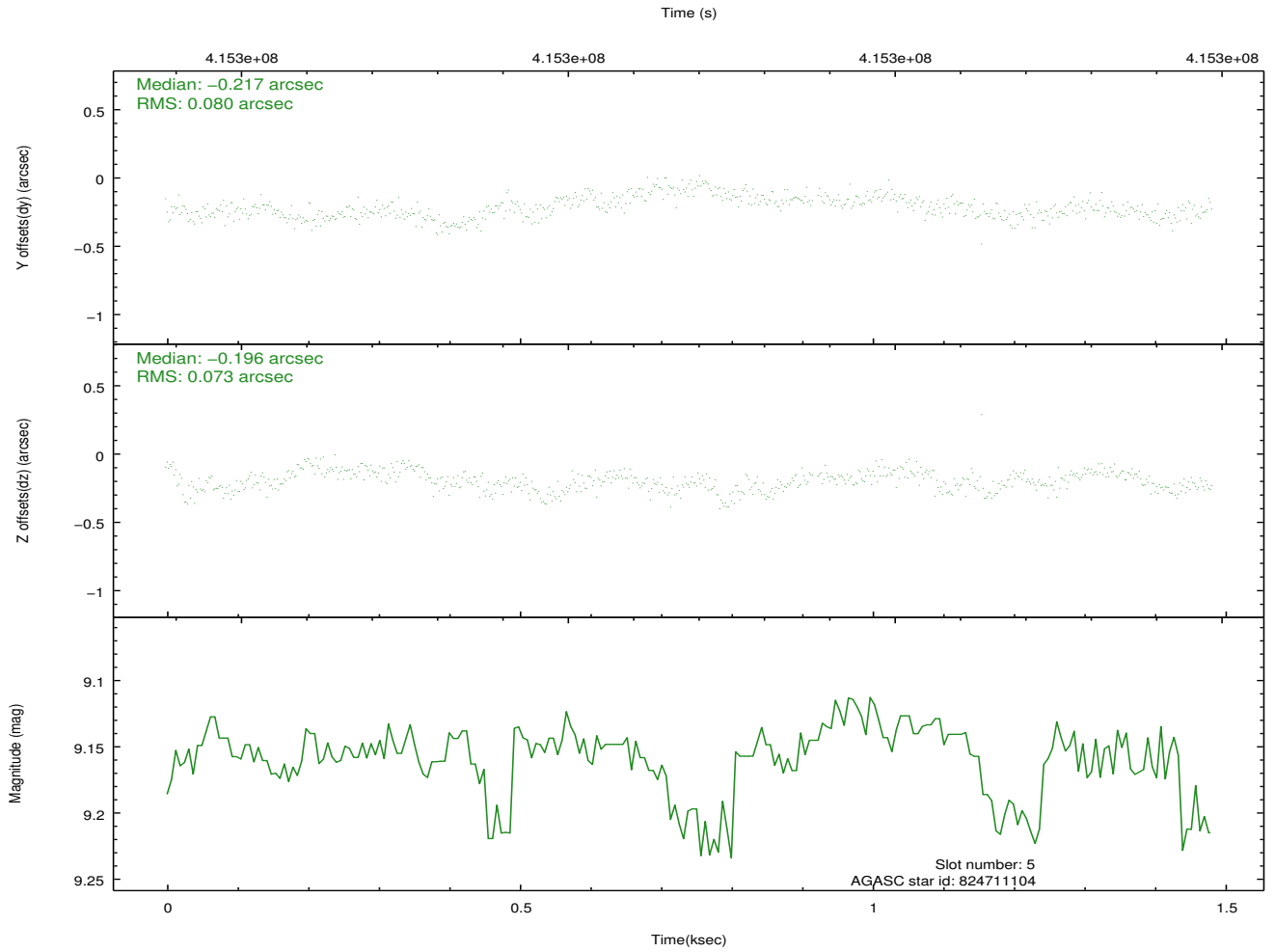
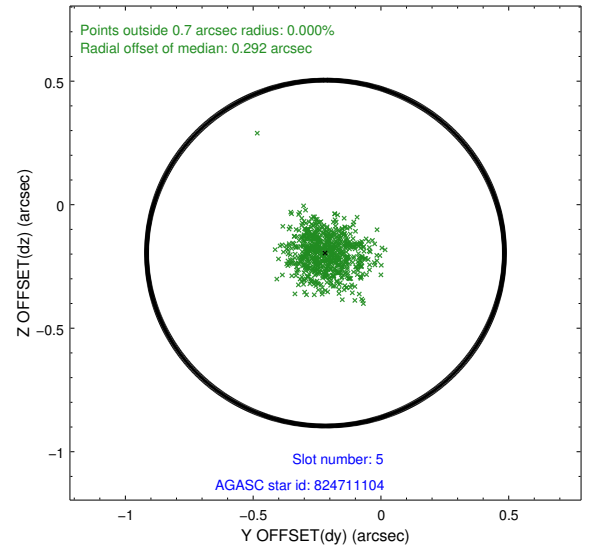
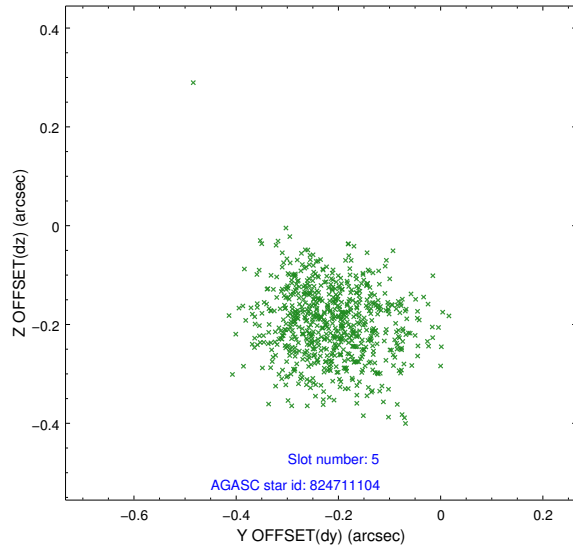
2.4.1 Slot 3



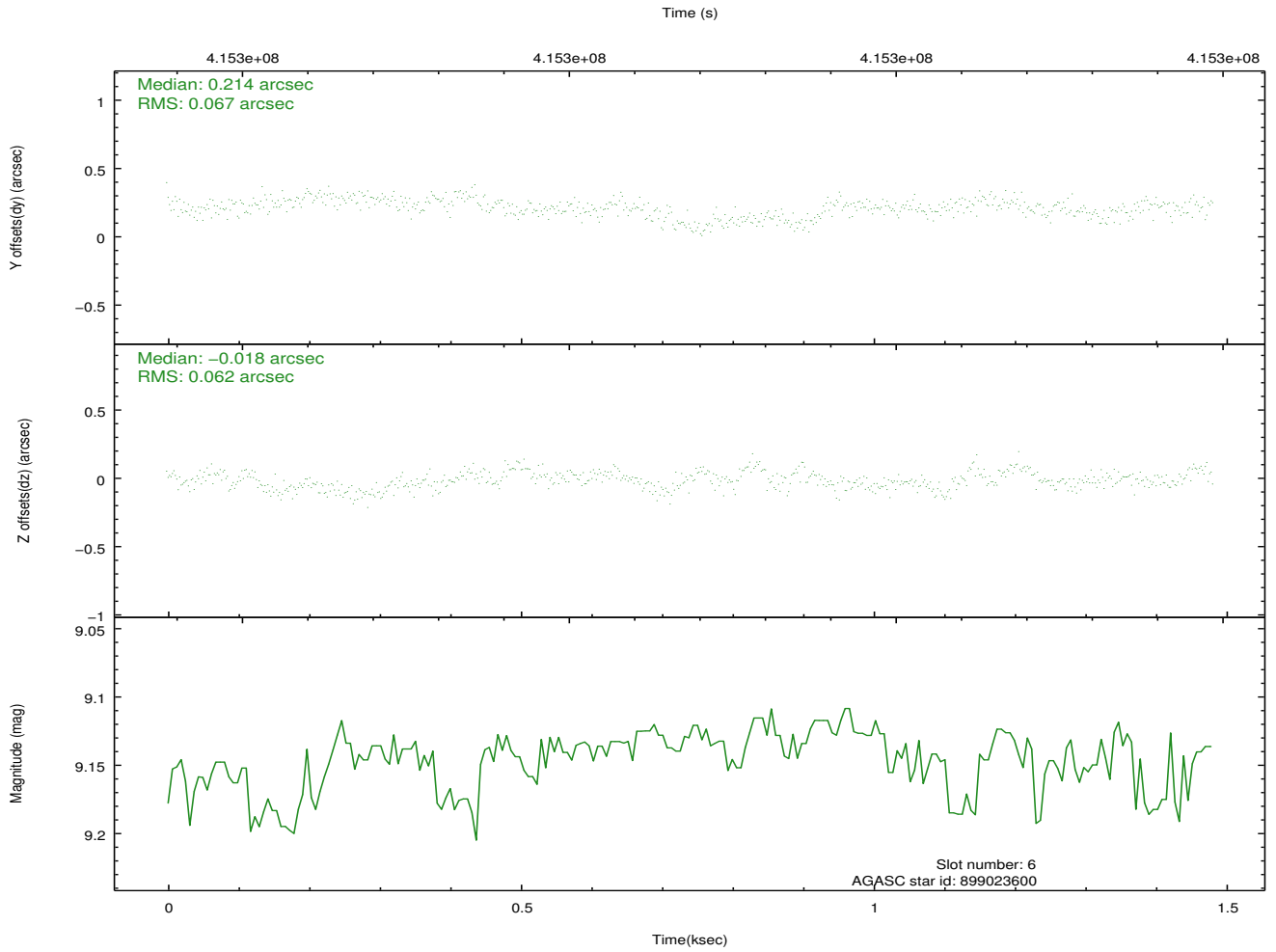
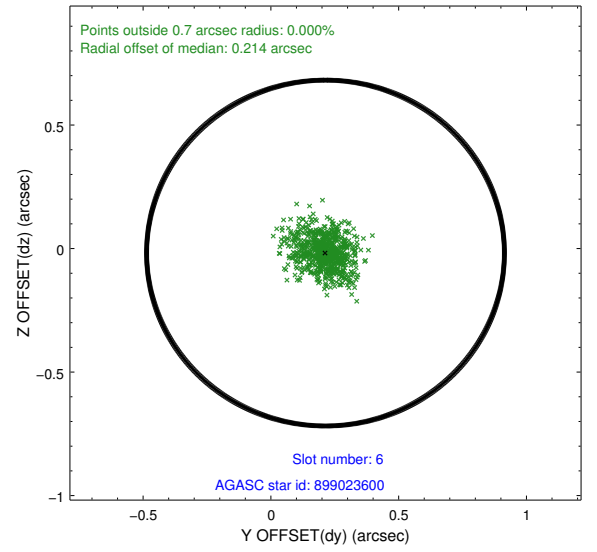
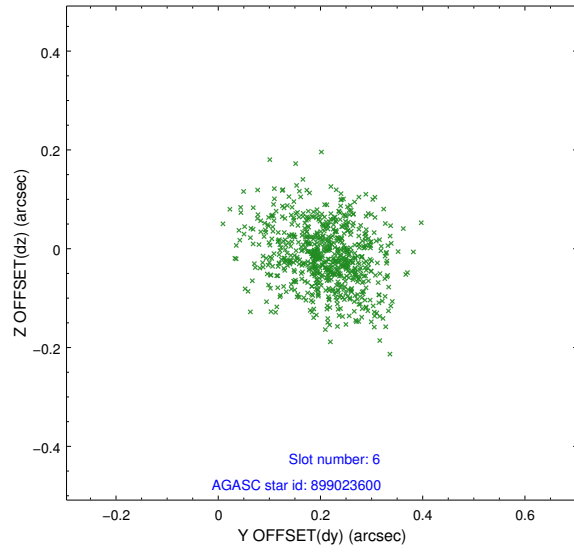
2.4.2 Slot 4



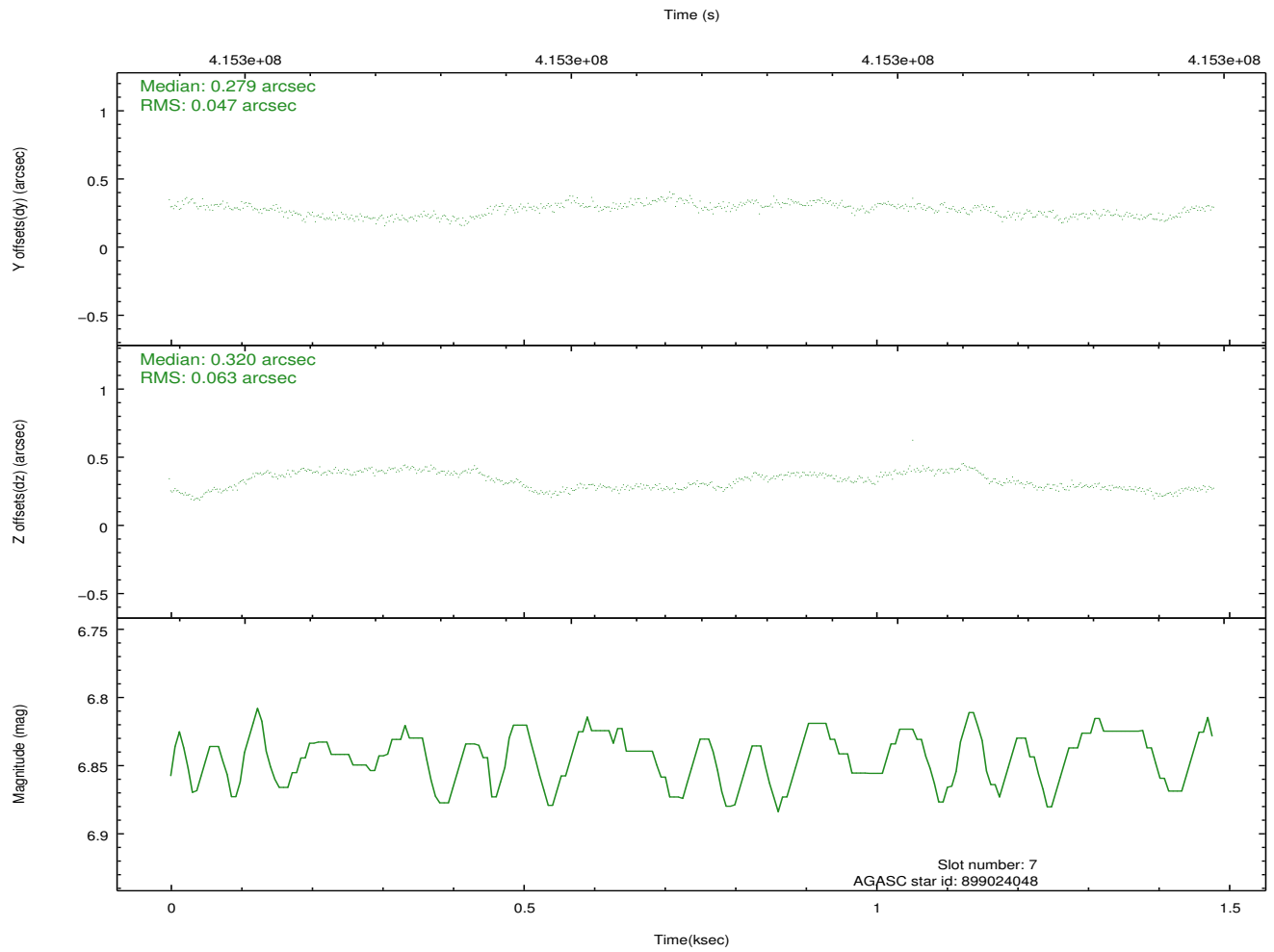
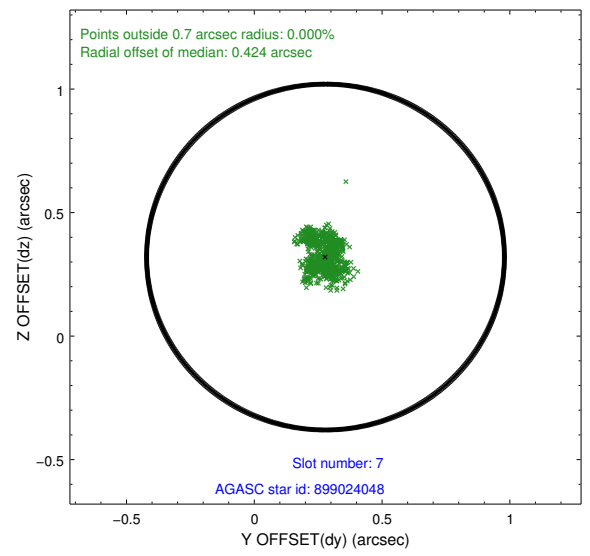
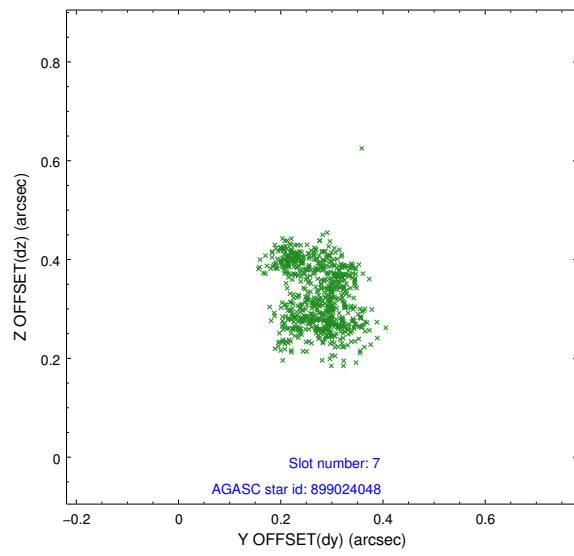
2.4.3 Slot 5



2.4.4 Slot 6

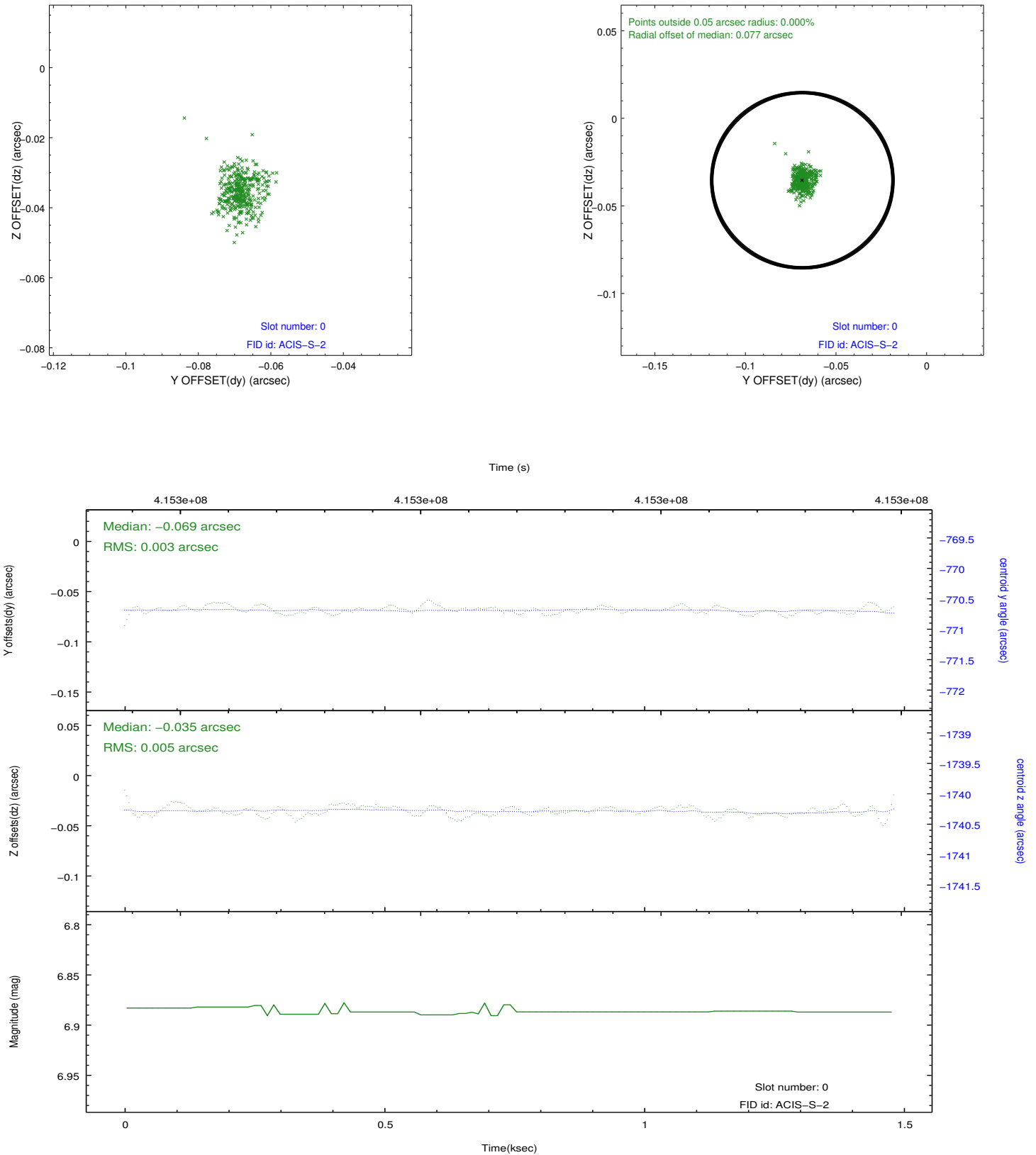


2.4.5 Slot 7

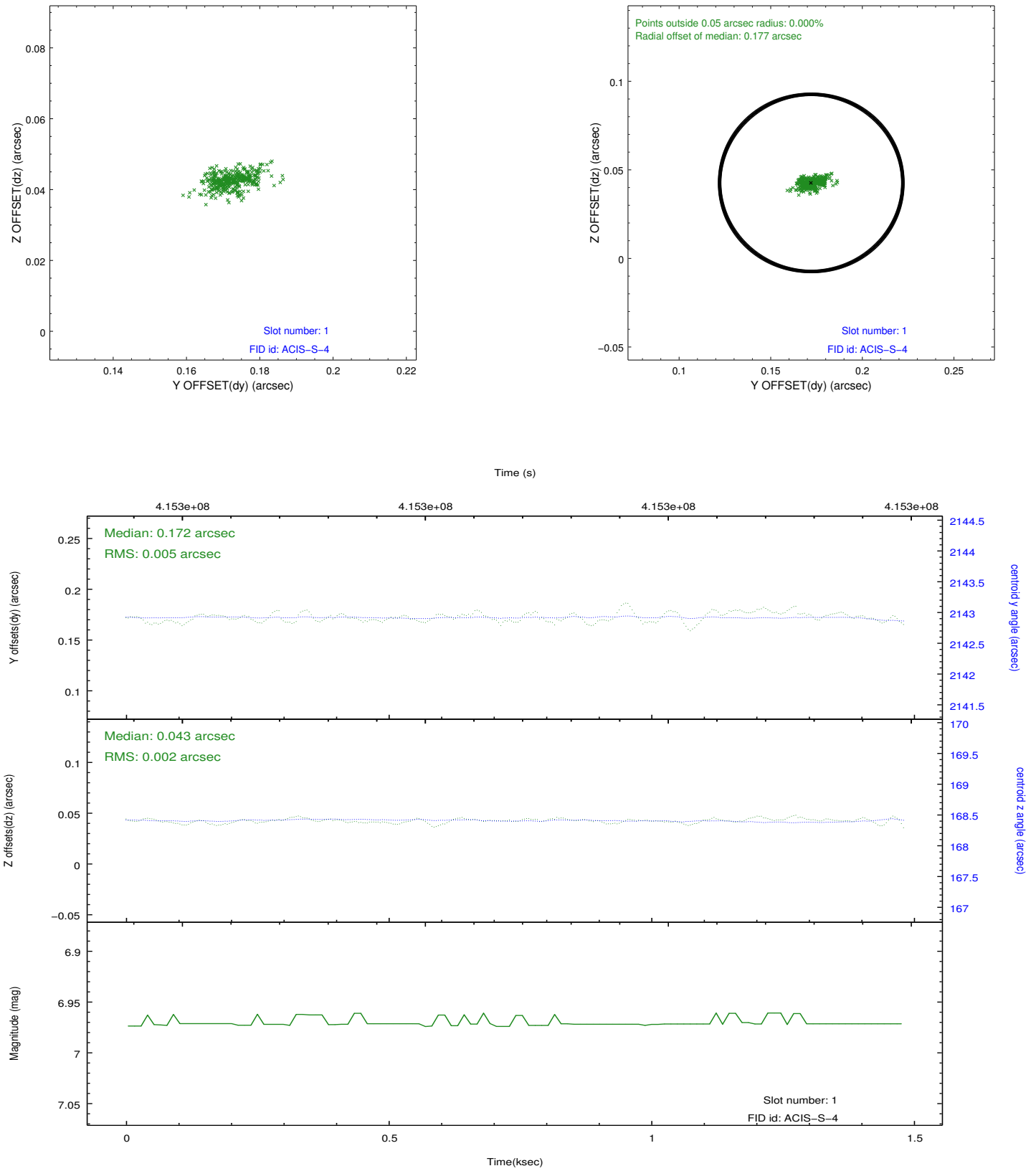


2.5 FID Slots

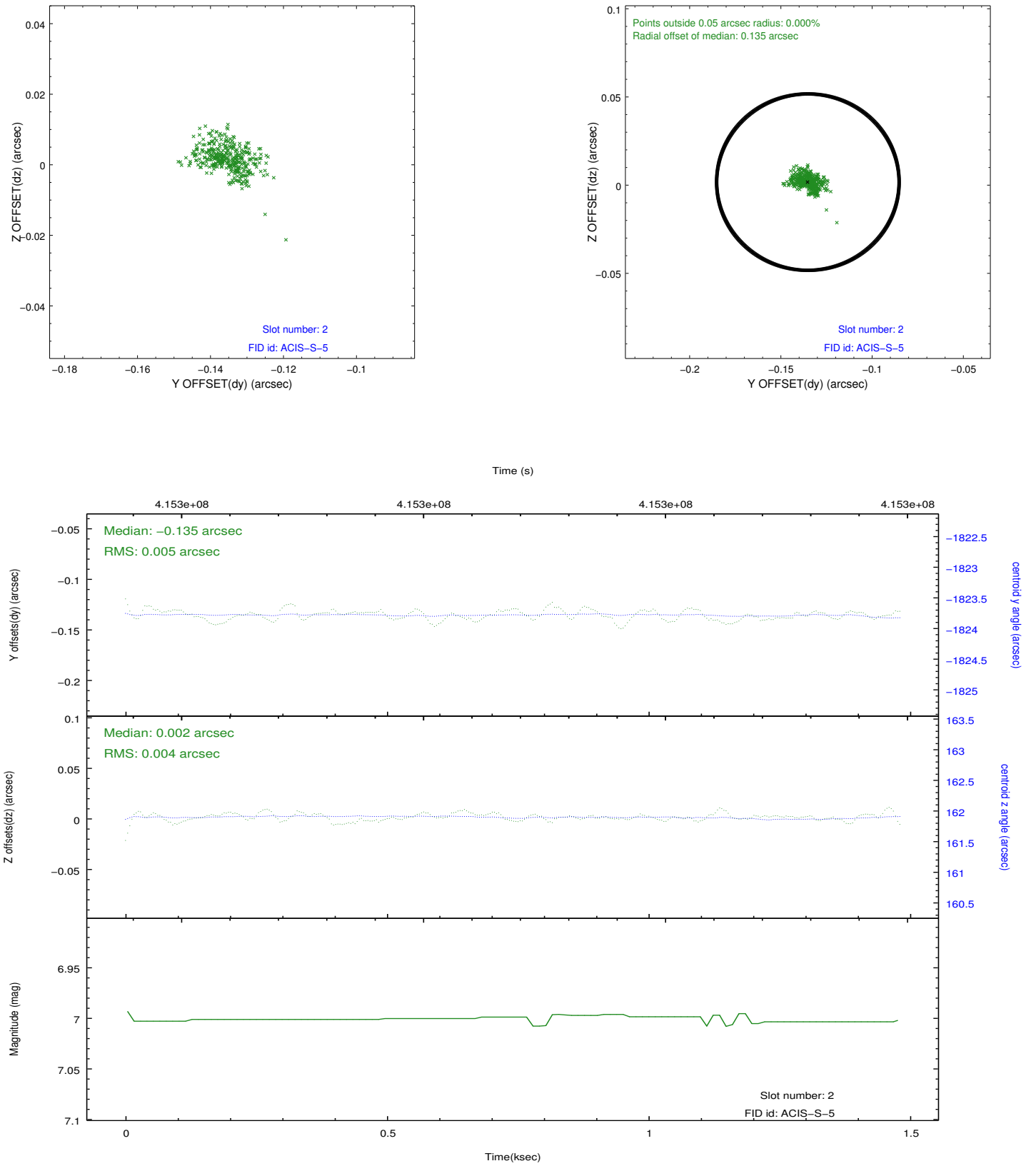
2.5.1 Slot 0



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)	2012.02.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.0416000080109

A.2 Comments

The data for this observation have been processed using the 'EDSER' sub-pixel event-repositioning algorithm of Li et al. (2004, ApJ, 610, 1204). Small-scale features should become sharper for sources near the aim point. The improvement will be less noticeable for off-axis sources where the size of the point-spread function is comparable to or larger than the size of an ACIS pixel. To take full advantage of the improvement, images should be binned on spatial scales smaller than the size of an ACIS pixel. Note that, at present, the point-spread function has not been calibrated for data to which the EDSER algorithm has been applied. If dither was disabled for the observation, then the algorithm can introduce artificial aliasing effects on spatial scales smaller than a pixel. If you would prefer to use no sub-pixel adjustment or to apply a coordinate randomization, then use `acis_process_events` to reprocess the data with the parameter `pix_adj=NONE` or `RANDOMIZE`, respectively.