

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12487 - L2 Version 2
Chandra X-Ray Center

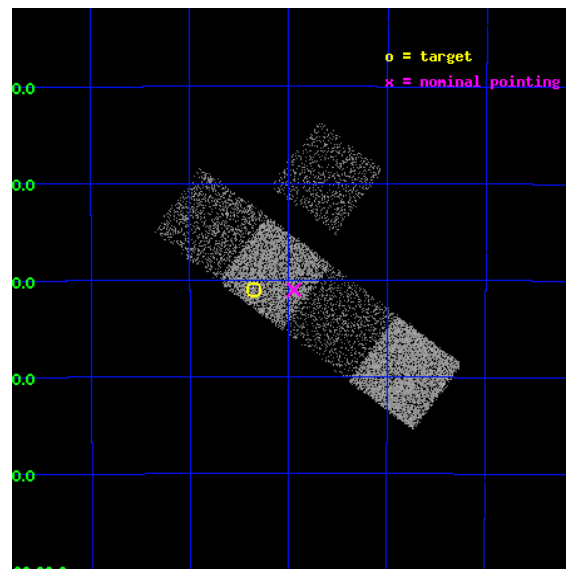
L2 Processing Date : Feb 7 2012

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1 Front

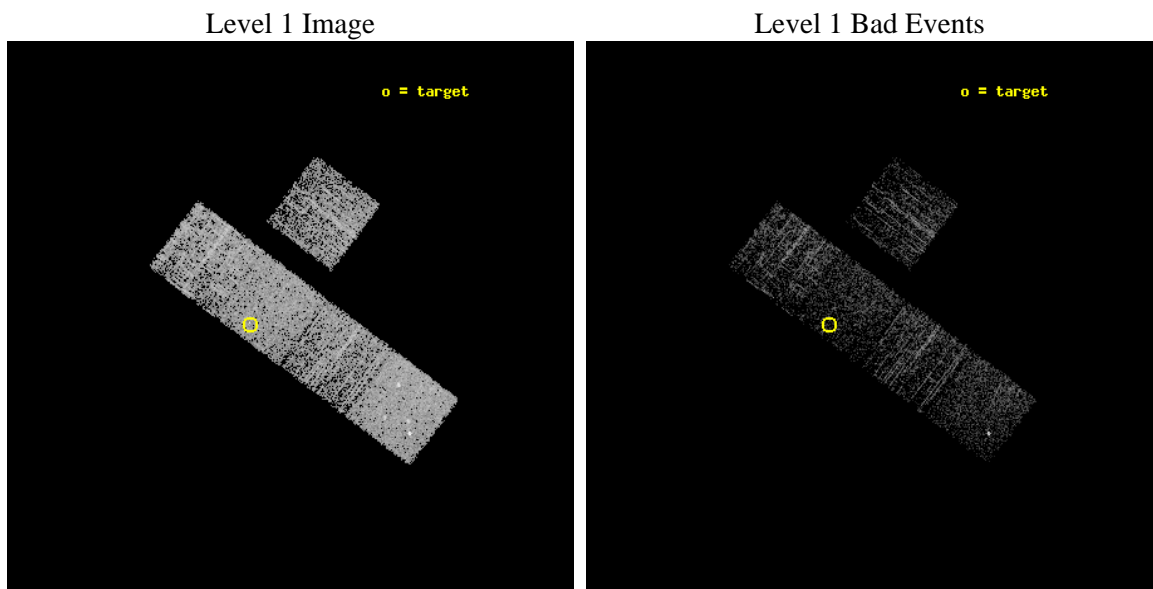
seq_num	401228	Sequence number
obs_id	12487	Observation id
title	The Nearest and Brightest Quiescent Low Mass X-ray Binaries	Propos
observer	Prof. Robert Rutledge	Principal investigator
object	1RXS J034121.4-463059	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	55.339167	Observer's specified target RA [deg]
dec_targ	-46.516389	Observer's specified target Dec [deg]
ra_nom	55.236492830391	Nominal RA [deg]
dec_nom	-46.516956981694	Nominal Dec [deg]
roll_nom	216.98090164185	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1642.6299363375	Sum of GTIs [s]
livetime	1621.1677669327	Livetime [s]
ontime3	1642.5068163276	Sum of GTIs [s]
ontime5	1642.5888963342	Sum of GTIs [s]
ontime6	1642.5478563309	Sum of GTIs [s]
ontime7	1642.6299363375	Sum of GTIs [s]
ontime8	1642.4657763243	Sum of GTIs [s]
l2events	16708	Number of level 2 events



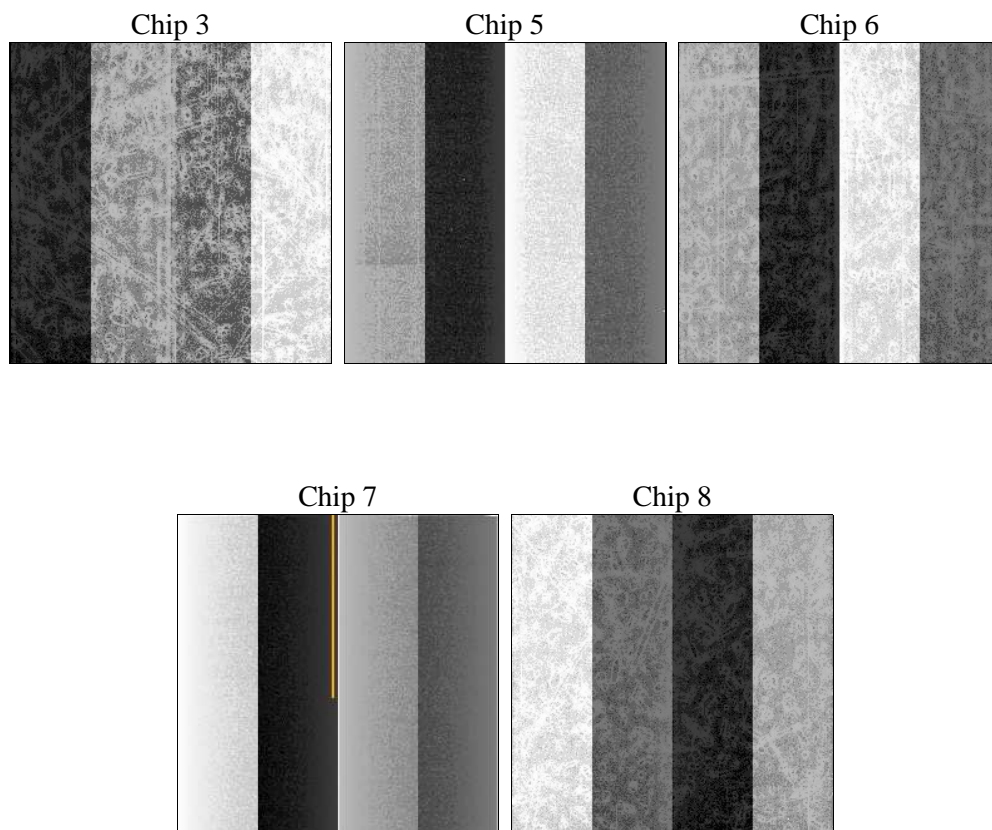
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1600.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	1642.6299363375	Sum of GTIs [s]
caldsver	4.4.7	 	ontime3	1642.5068163276	Sum of GTIs [s]
date	2012-02-08T03:17:10	Date and time of file creation	ontime5	1642.5888963342	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	1642.5478563309	Sum of GTIs [s]
			ontime7	1642.6299363375	Sum of GTIs [s]
			ontime8	1642.4657763243	Sum of GTIs [s]
			l1events	65334	Number of level 1 events

2.1.4 Events

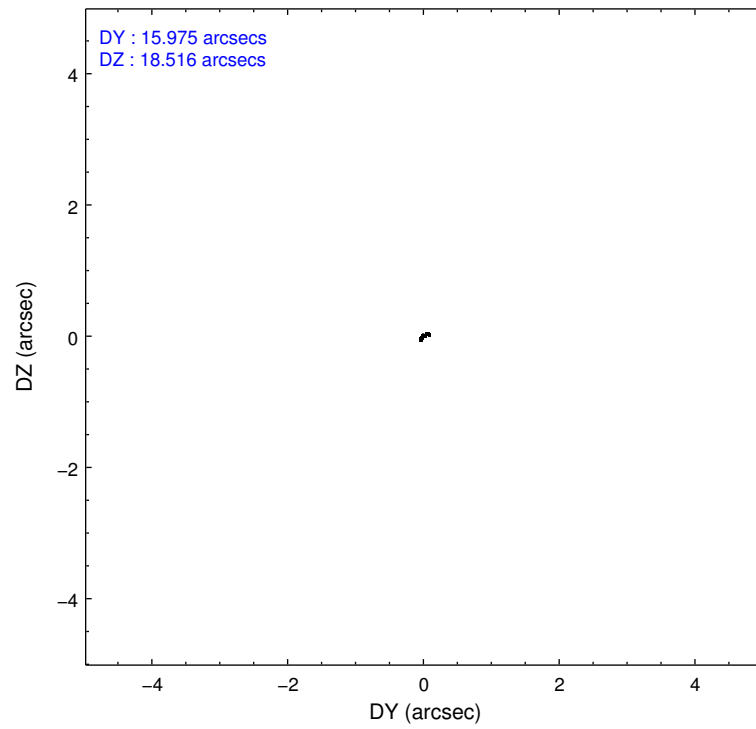
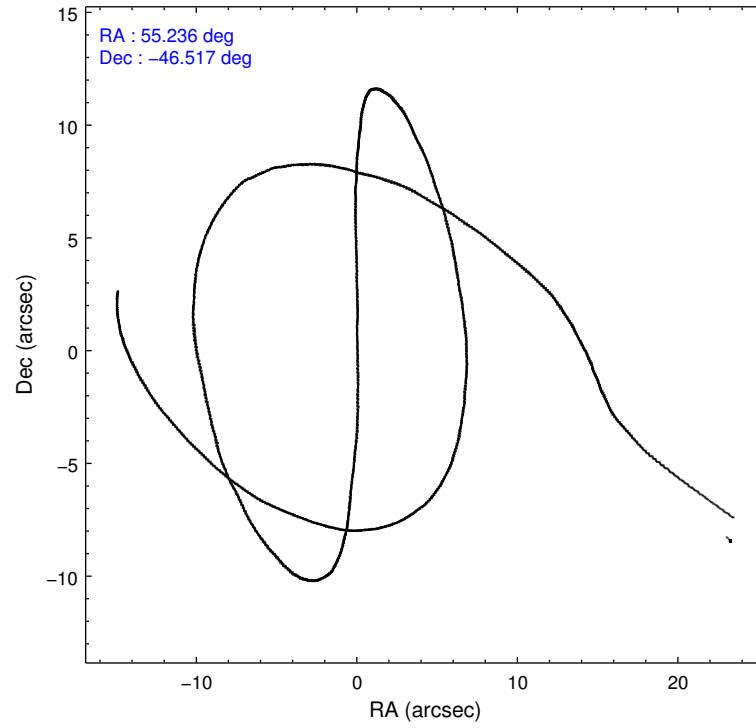
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	9817	16655	10767	13153	14942
rejected events	8727	8435	9560	7221	11142
rejected %	88%	50%	88%	54%	74%

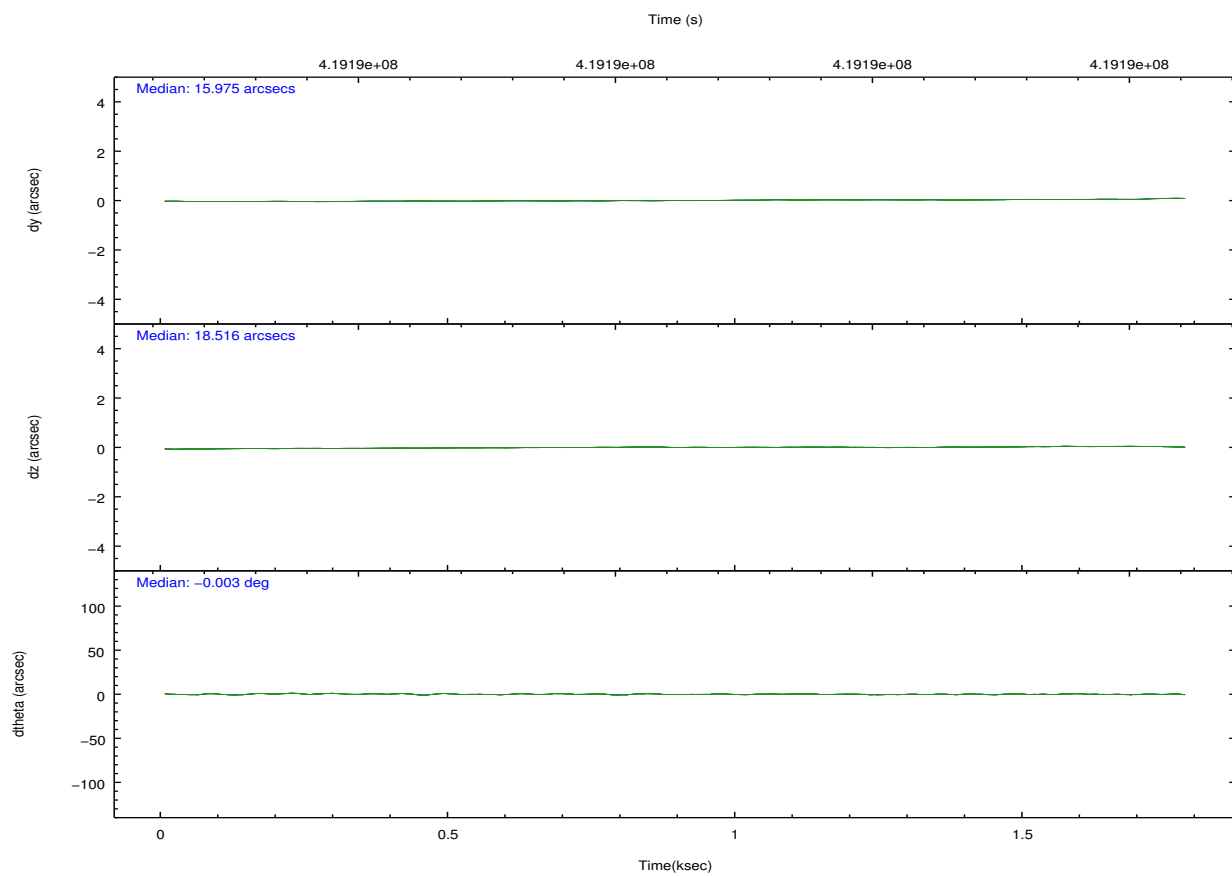
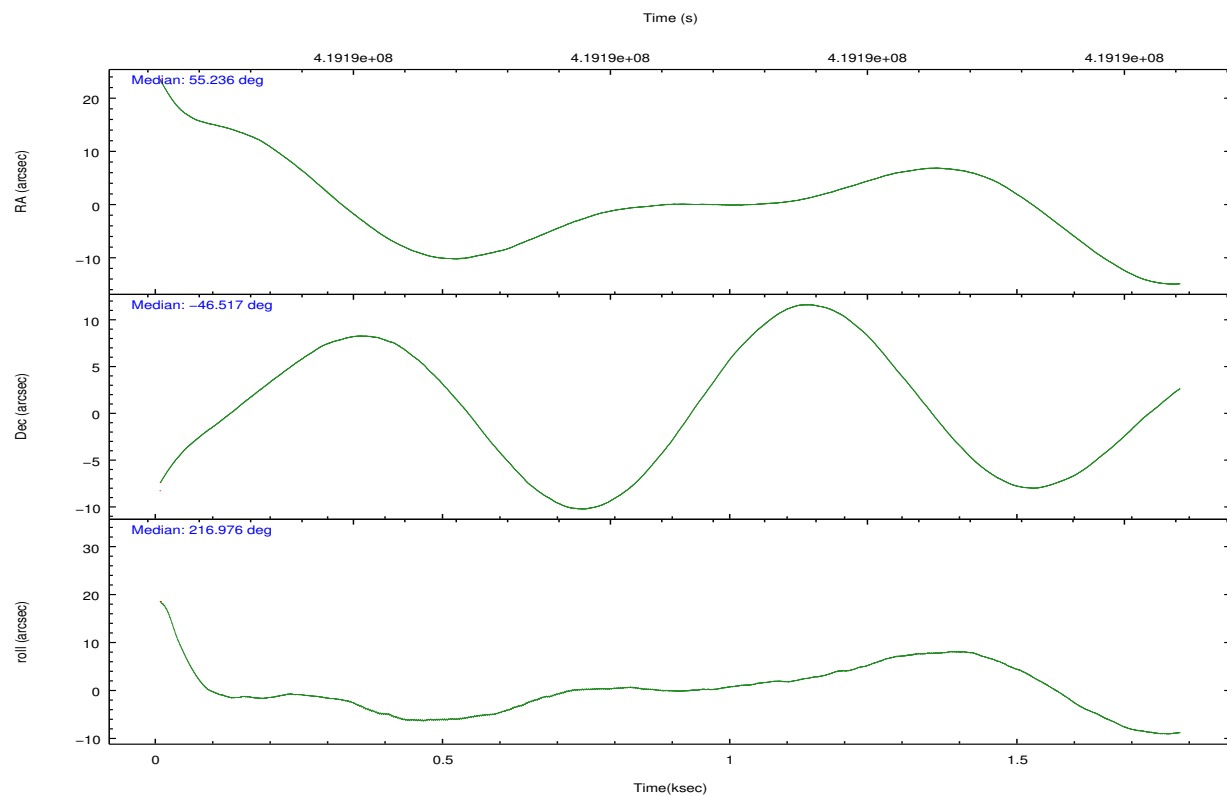
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	394	955	447	550	1033
	4%	5%	4%	4%	6%
grade 1 events	2	29	2	13	13
	0%	0%	0%	0%	0%
grade 2 events	237	2368	256	1241	912
	2%	14%	2%	9%	6%
grade 3 events	134	395	126	580	426
	1%	2%	1%	4%	2%
grade 4 events	121	303	113	551	408
	1%	1%	1%	4%	2%
grade 5 events	508	1400	474	1502	748
	5%	8%	4%	11%	5%
grade 6 events	204	4215	266	3021	1026
	2%	25%	2%	22%	6%
grade 7 events	8217	6990	9083	5695	10376
	83%	41%	84%	43%	69%

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	55.251273	55.23649283039124	CCD I2 on	N	N
[deg] Pointing Dec	-46.491550	-46.51695698169429	CCD I3 on	O1	Y
[deg] Pointing Roll	216.834937	216.9809016418536	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	419190904.184000	419189748.21153	CCD S5 on	N	N
Observation start date	2011-04-14T17:53:58	2011-04-14T17:35:48	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	419192504.184000	419193403.87422	On-chip summing requested	N	N
Observation end date	2011-04-14T18:20:38	2011-04-14T18:36:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



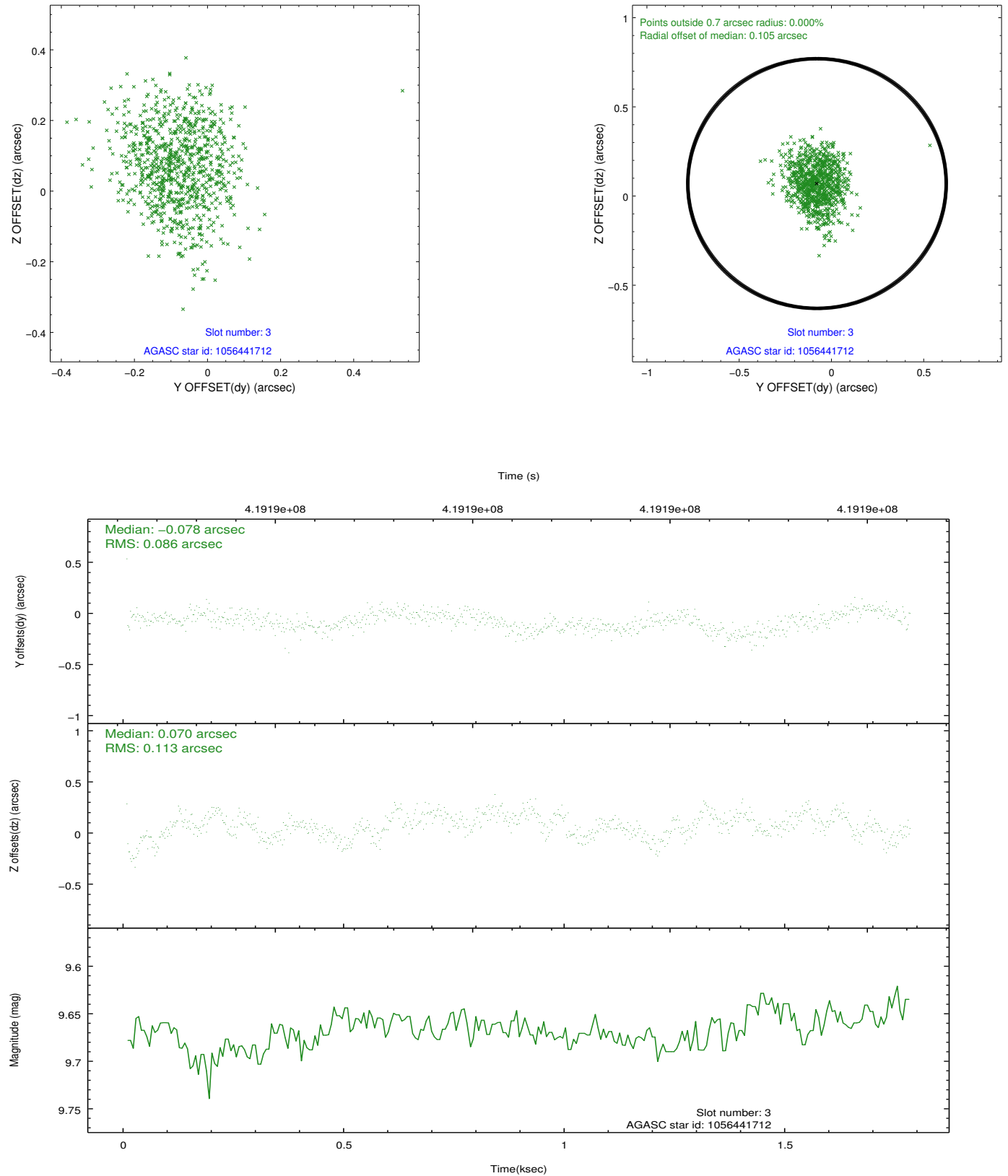


Slot Statistics

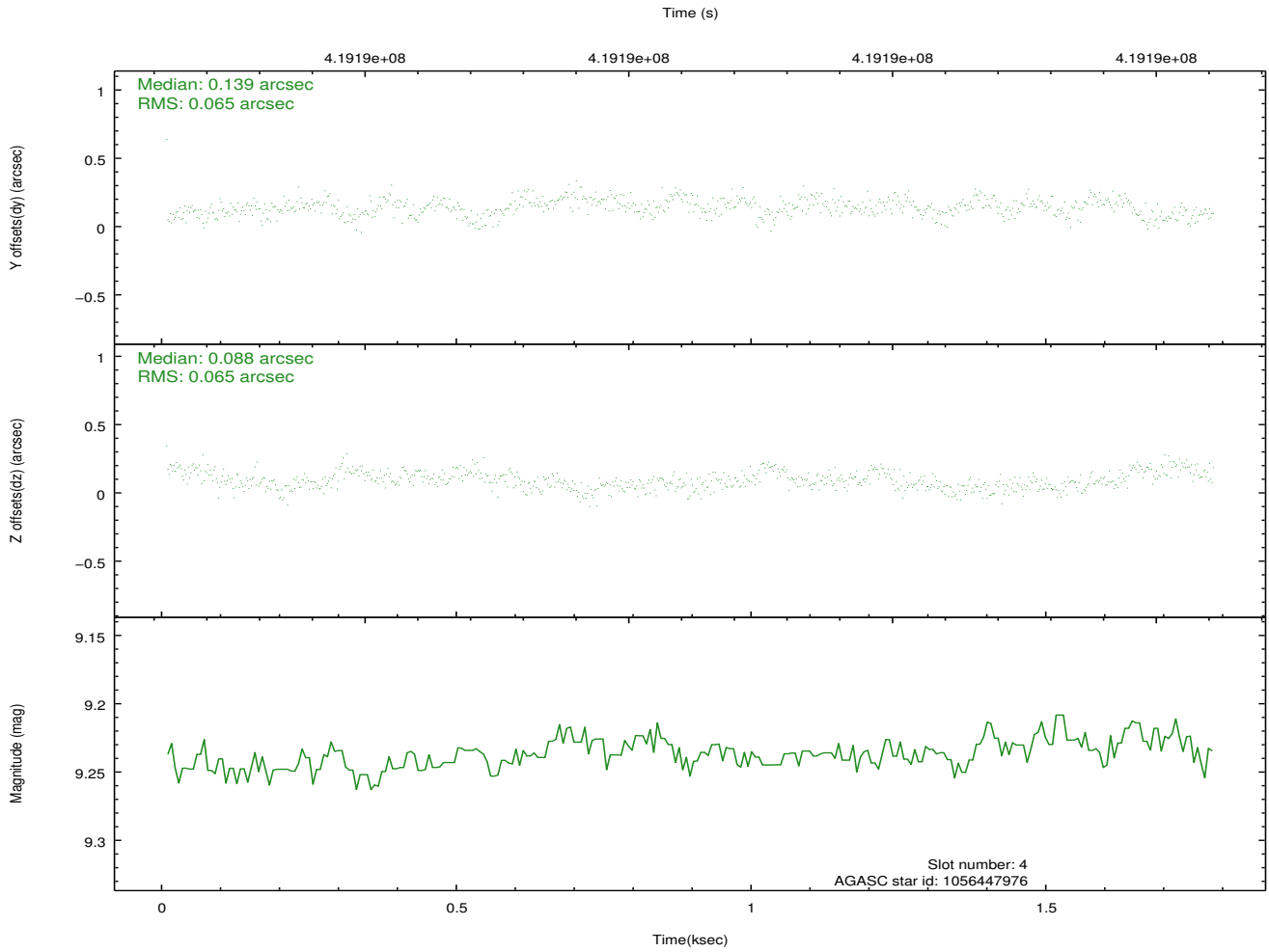
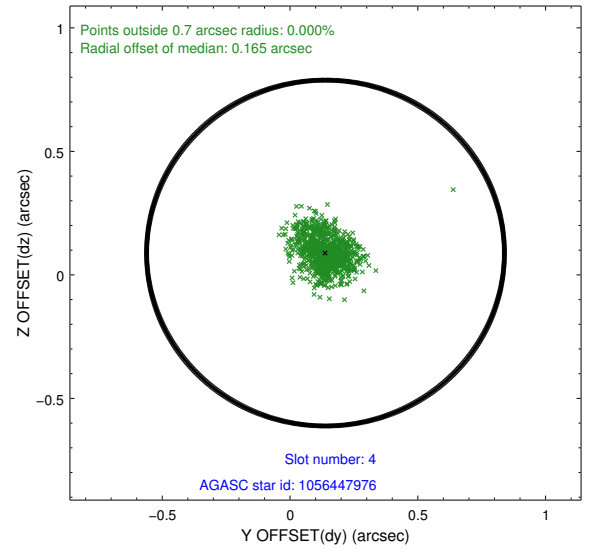
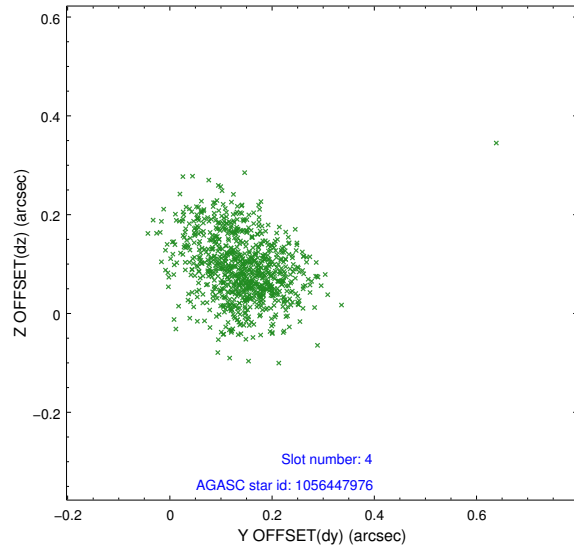
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	434	-0.072	-0.033	0.006	0.012	0.000000	0.000000	-769.08	-1740.00
1	FID	ACIS-S-4	6.97	434	0.153	0.044	0.005	0.009	0.000000	0.000000	2142.75	164.65
2	FID	ACIS-S-5	7.00	434	-0.112	-0.002	0.006	0.011	0.000000	0.000000	-1817.19	162.57
3	GUIDE	1056441712	9.67	865	-0.078	0.070	0.150	0.247	54.520980	-46.075279	567.70	-2286.38
4	GUIDE	1056447976	9.24	867	0.139	0.088	0.098	0.152	55.622744	-45.780990	-2277.20	-1489.41
5	GUIDE	1056449072	9.64	865	-0.006	-0.036	0.157	0.246	54.322268	-46.302090	1445.97	-1922.06
6	GUIDE	1056454440	6.67	867	-0.027	-0.028	0.074	0.113	55.541065	-45.957882	-1728.57	-1105.00
7	GUIDE	1056454592	9.27	866	-0.033	-0.097	0.143	0.215	56.183587	-46.436776	-1962.77	1238.12

2.4 Star Slots

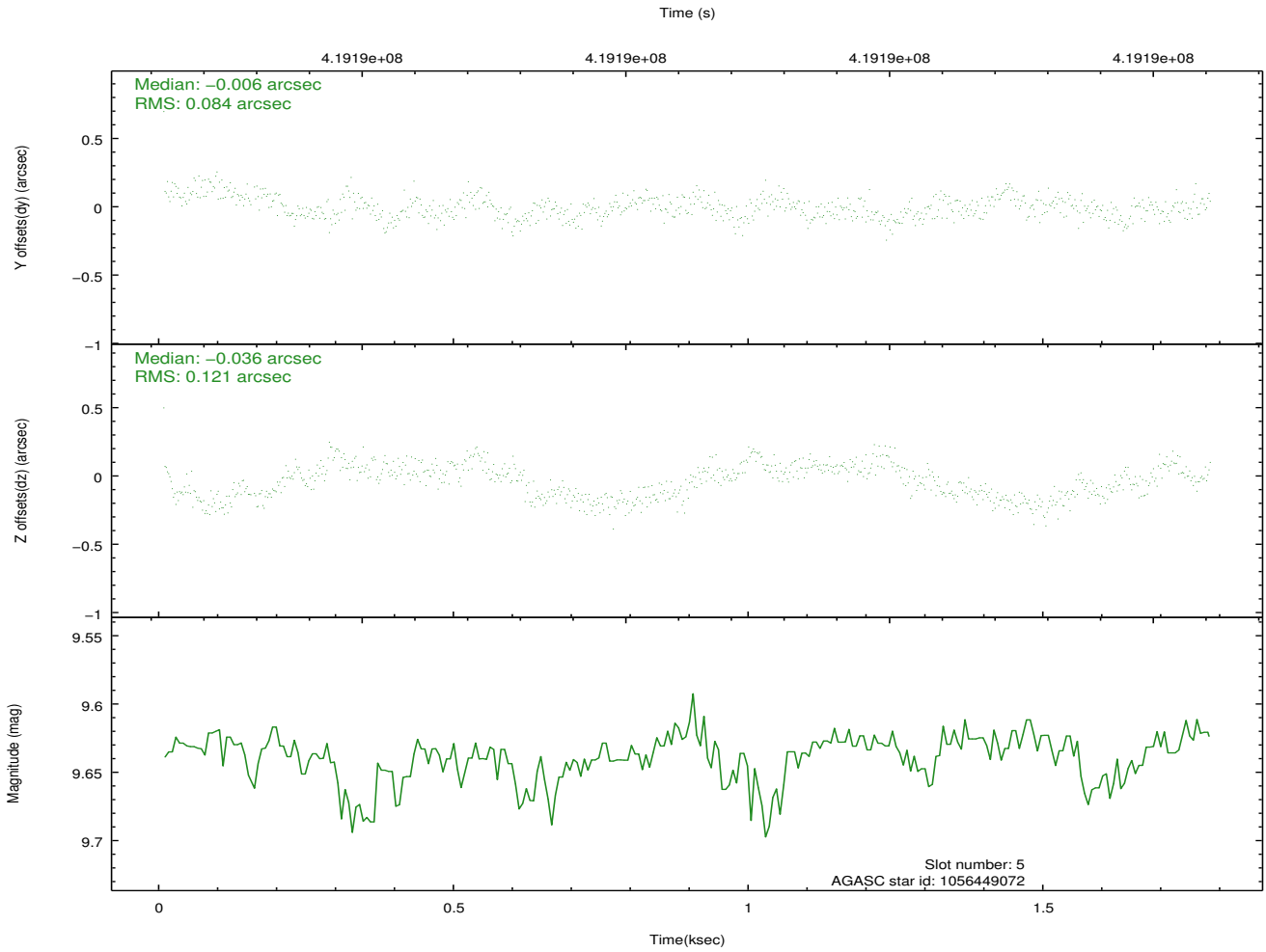
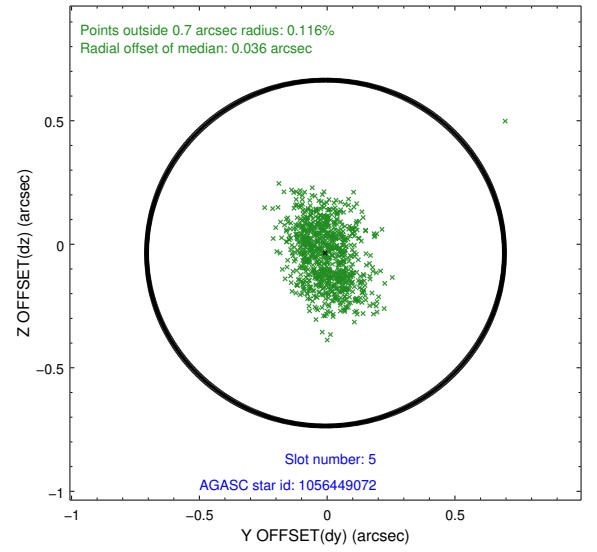
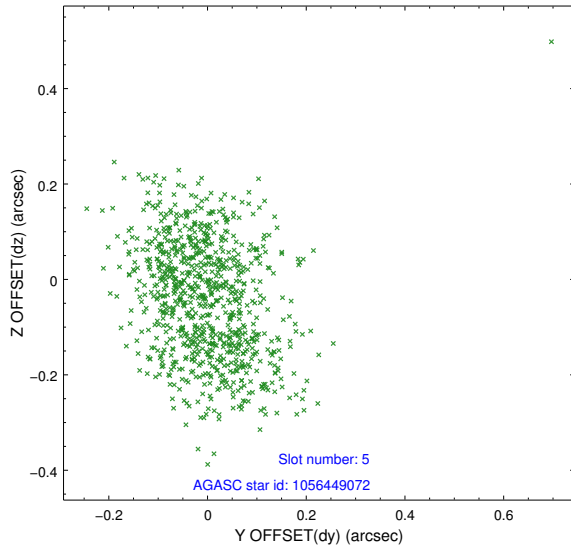
2.4.1 Slot 3



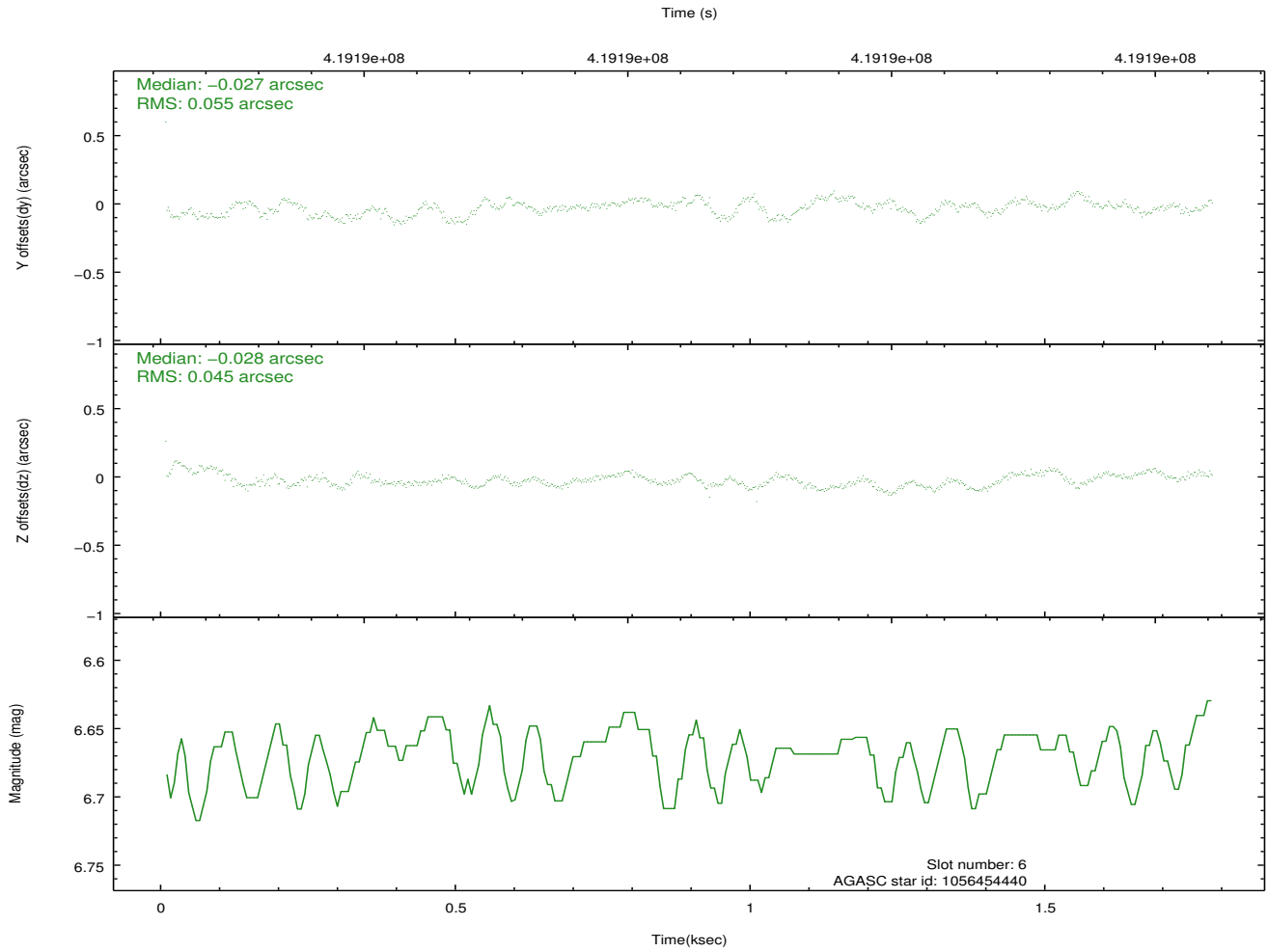
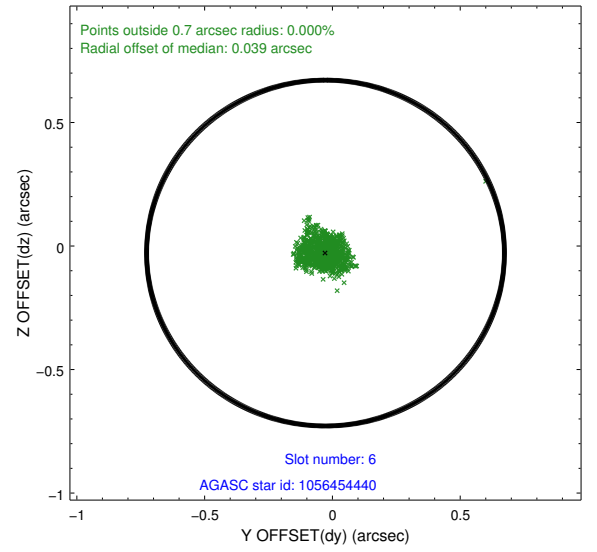
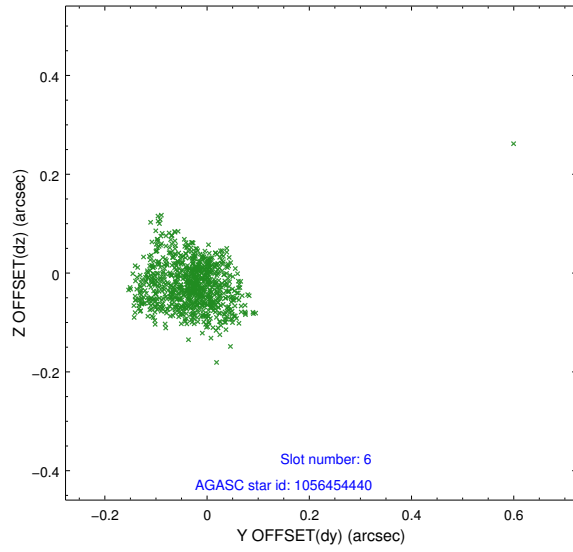
2.4.2 Slot 4



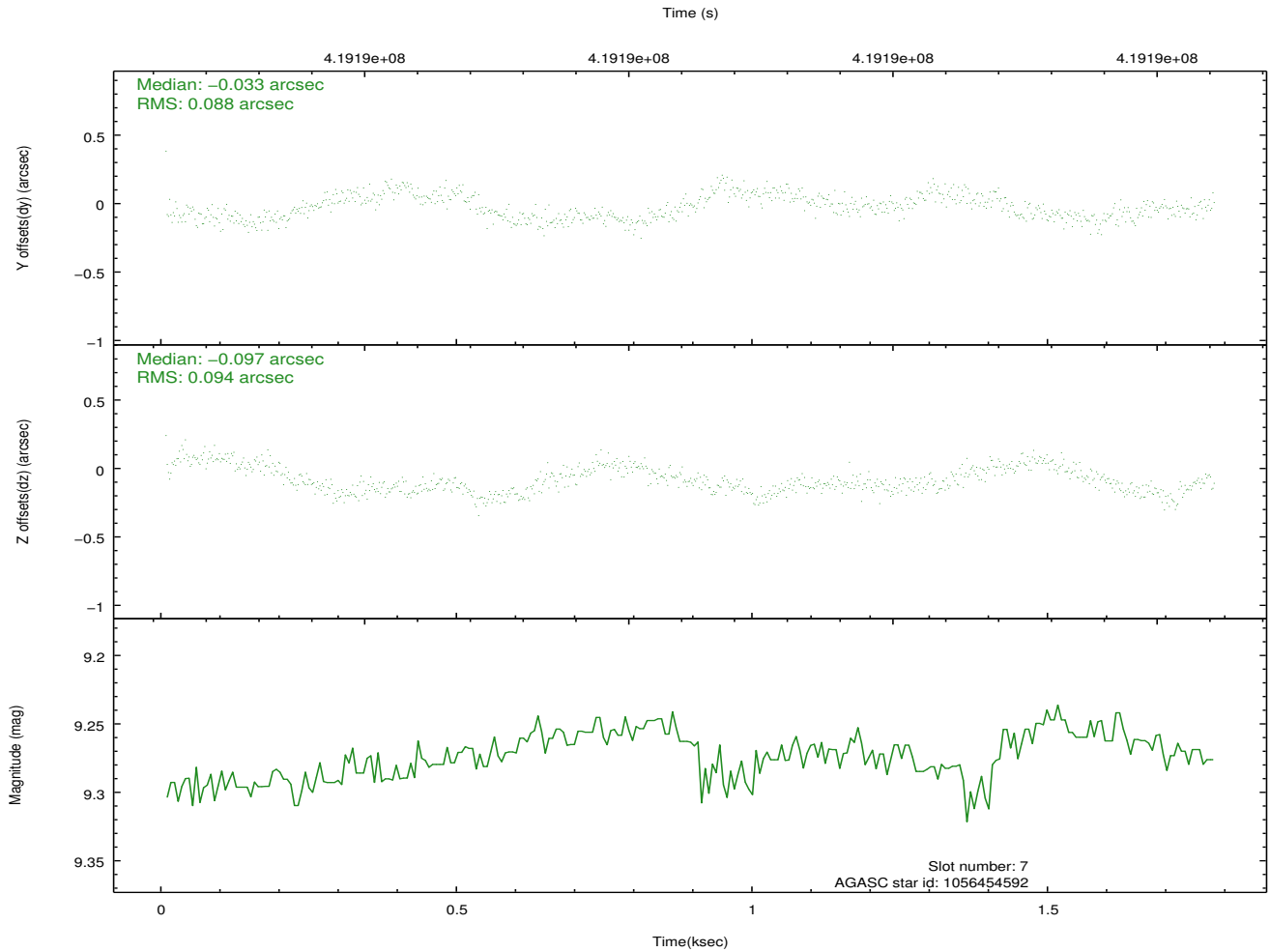
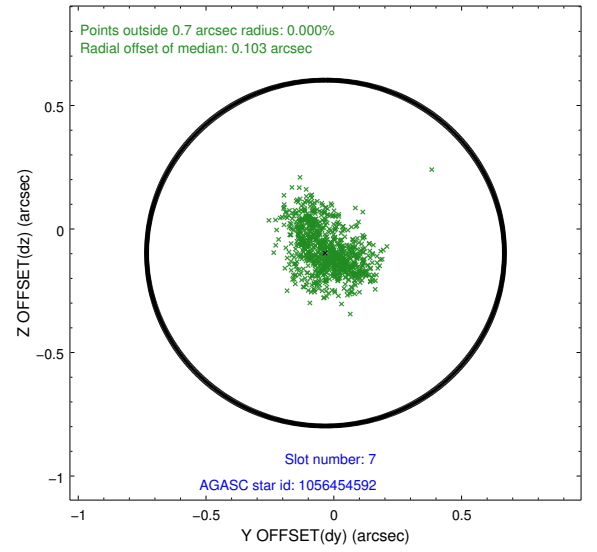
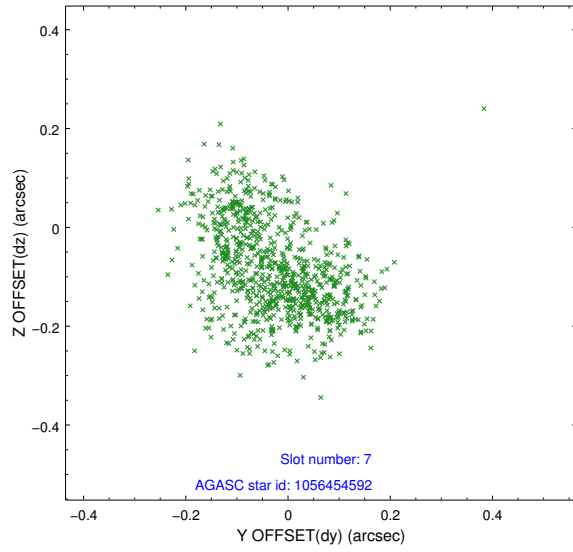
2.4.3 Slot 5



2.4.4 Slot 6

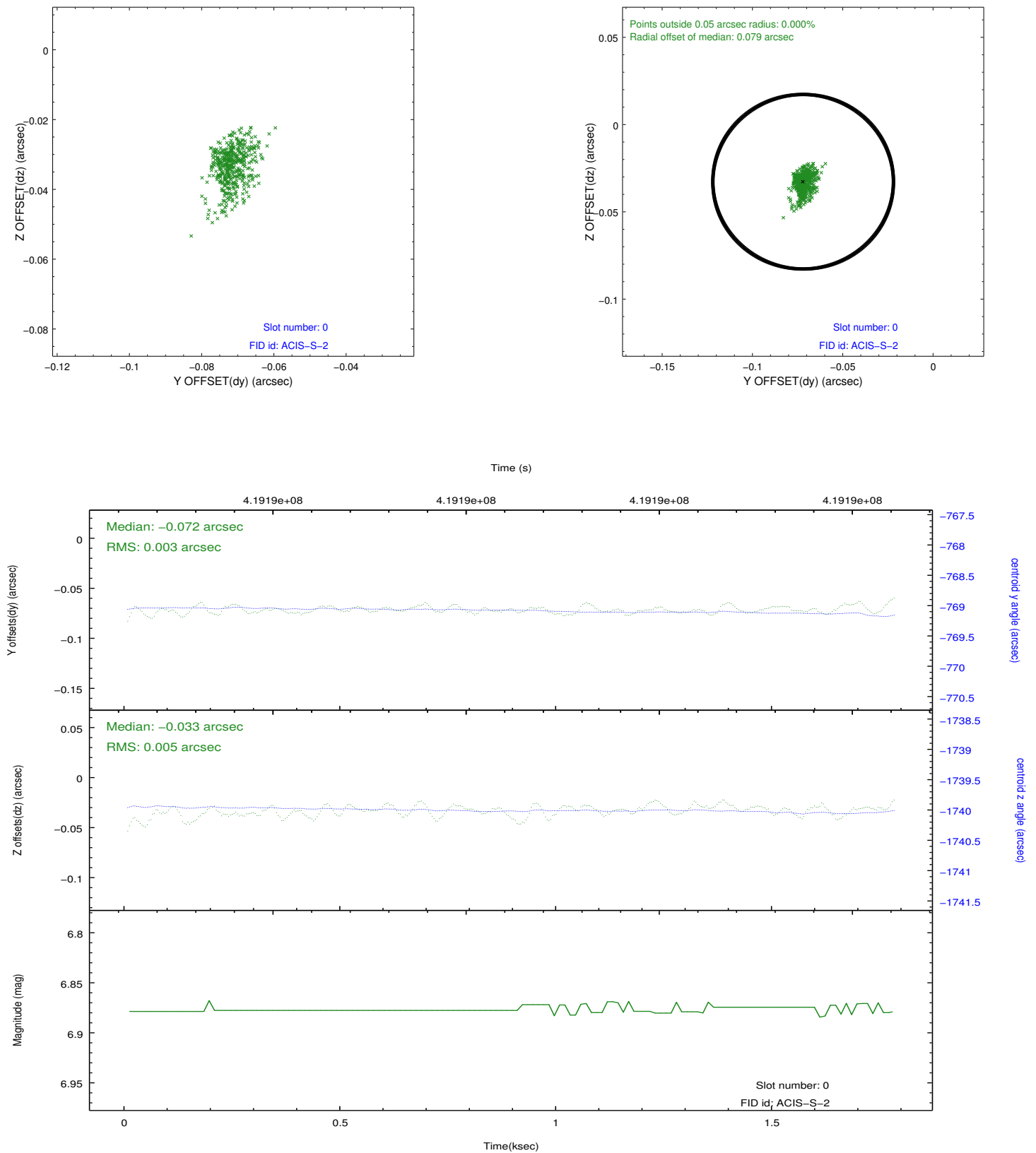


2.4.5 Slot 7

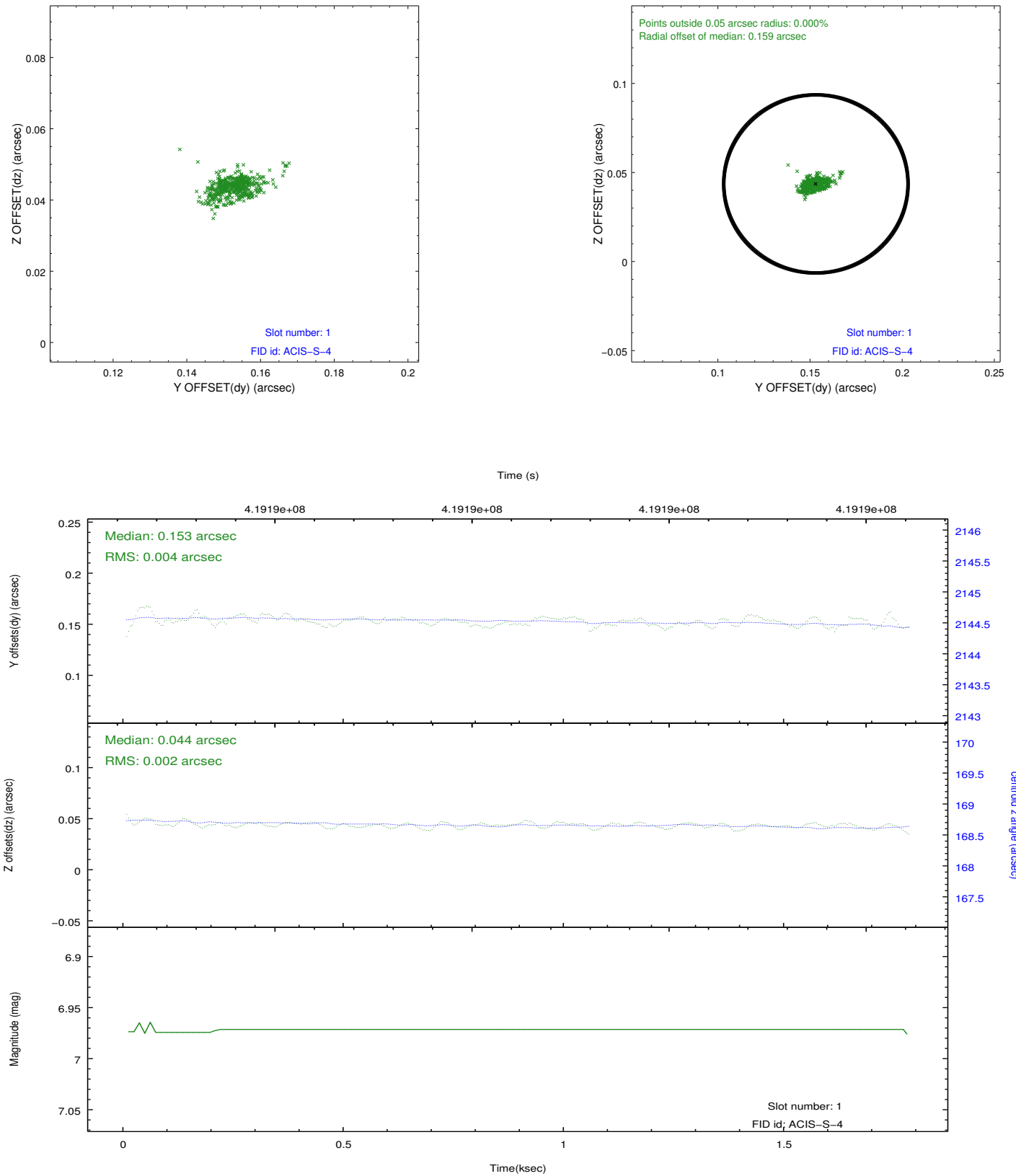


2.5 FID Slots

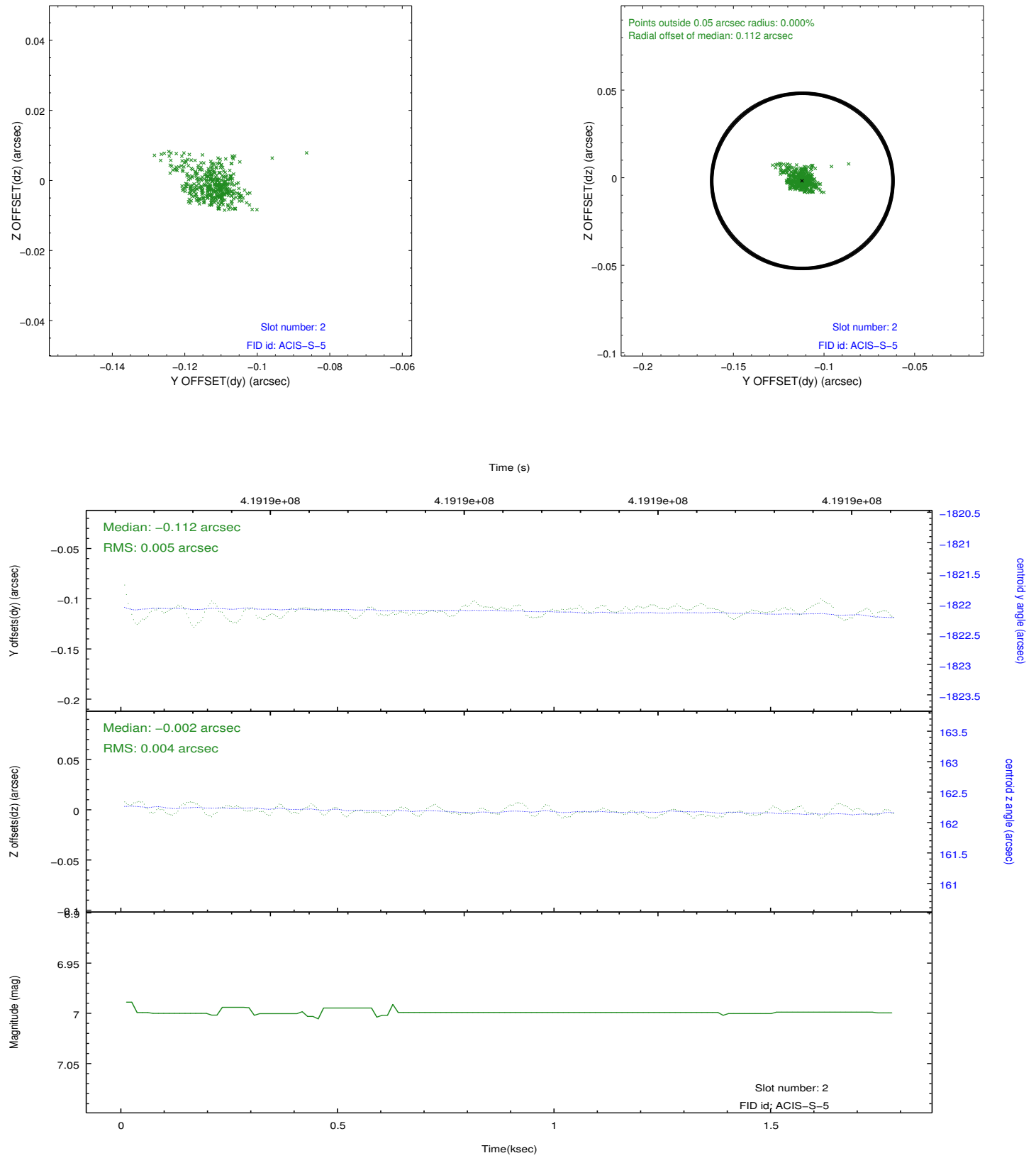
2.5.1 Slot 0



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)	2012.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.6426299340129

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.