

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12475 - L2 Version 2
Chandra X-Ray Center

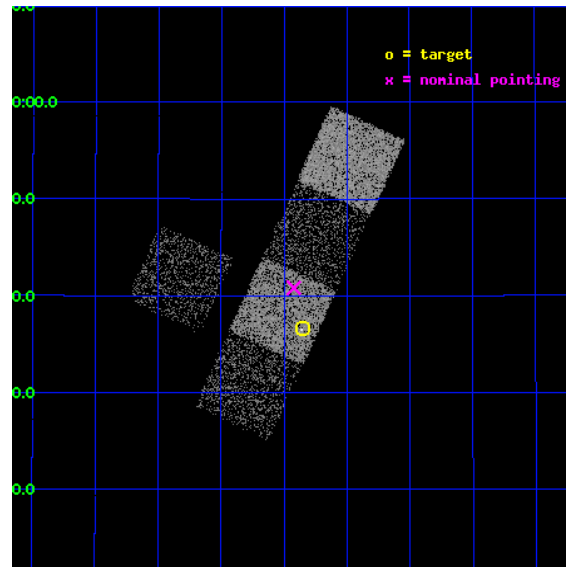
L2 Processing Date : Feb 5 2012

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1 Front

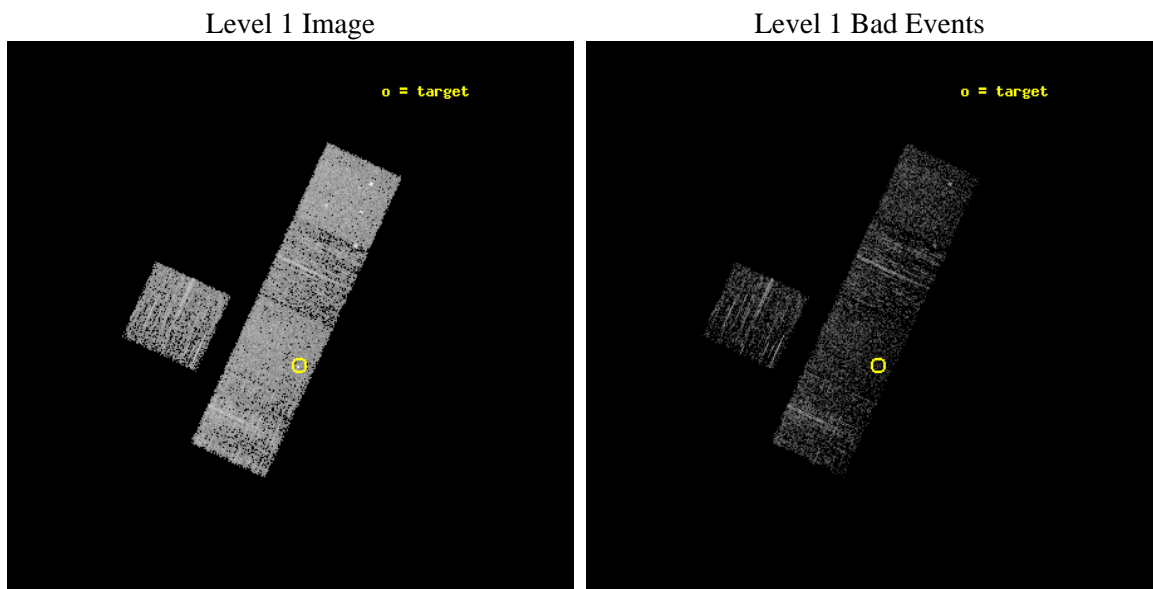
seq_num	401216	Sequence number
obs_id	12475	Observation id
title	The Nearest and Brightest Quiescent Low Mass X-ray Binaries	Propos
observer	Prof. Robert Rutledge	Principal investigator
object	1RXS J134751.3+283639	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	206.96375	Observer's specified target RA [deg]
dec_targ	28.610833	Observer's specified target Dec [deg]
ra_nom	206.98031657315	Nominal RA [deg]
dec_nom	28.680393714285	Nominal Dec [deg]
roll_nom	114.71397559438	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1835.2000141144	Sum of GTIs [s]
livetime	1811.2217748754	Livetime [s]
ontime3	1835.2000141144	Sum of GTIs [s]
ontime5	1835.2000141144	Sum of GTIs [s]
ontime6	1835.2000141144	Sum of GTIs [s]
ontime7	1835.2000141144	Sum of GTIs [s]
ontime8	1835.2000141144	Sum of GTIs [s]
l2events	20326	Number of level 2 events



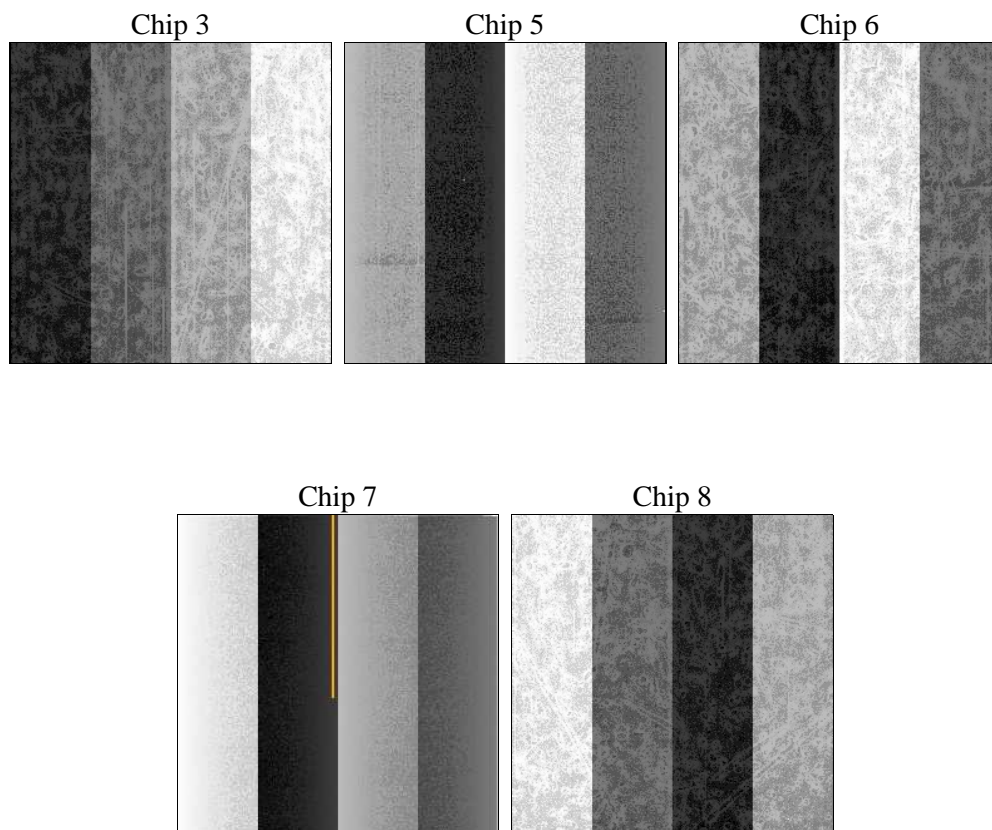
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1800.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	1835.2000141144	Sum of GTIs [s]
caldsver	4.4.7	 	ontime3	1835.2000141144	Sum of GTIs [s]
date	2012-02-05T14:22:09	Date and time of file creation	ontime5	1835.2000141144	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	1835.2000141144	Sum of GTIs [s]
			ontime7	1835.2000141144	Sum of GTIs [s]
			ontime8	1835.2000141144	Sum of GTIs [s]
			l1events	78442	Number of level 1 events

2.1.4 Events

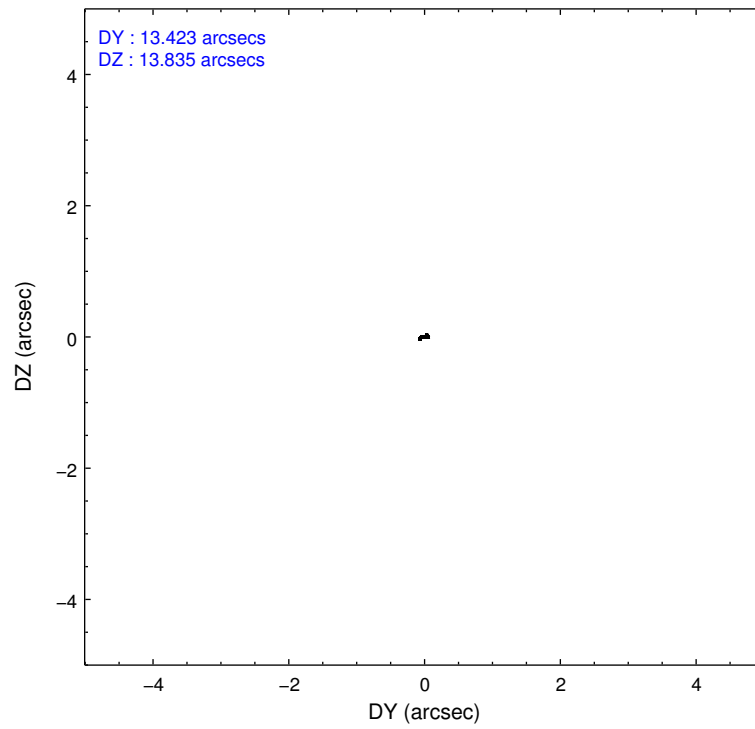
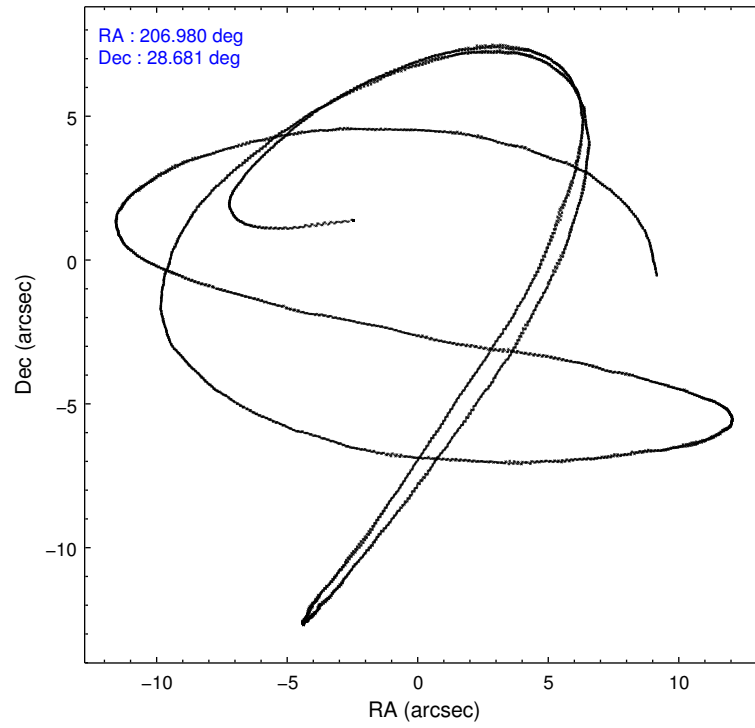
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	12633	20497	12839	16525	15948
rejected events	11327	10191	11324	8980	11565
rejected %	89%	49%	88%	54%	72%

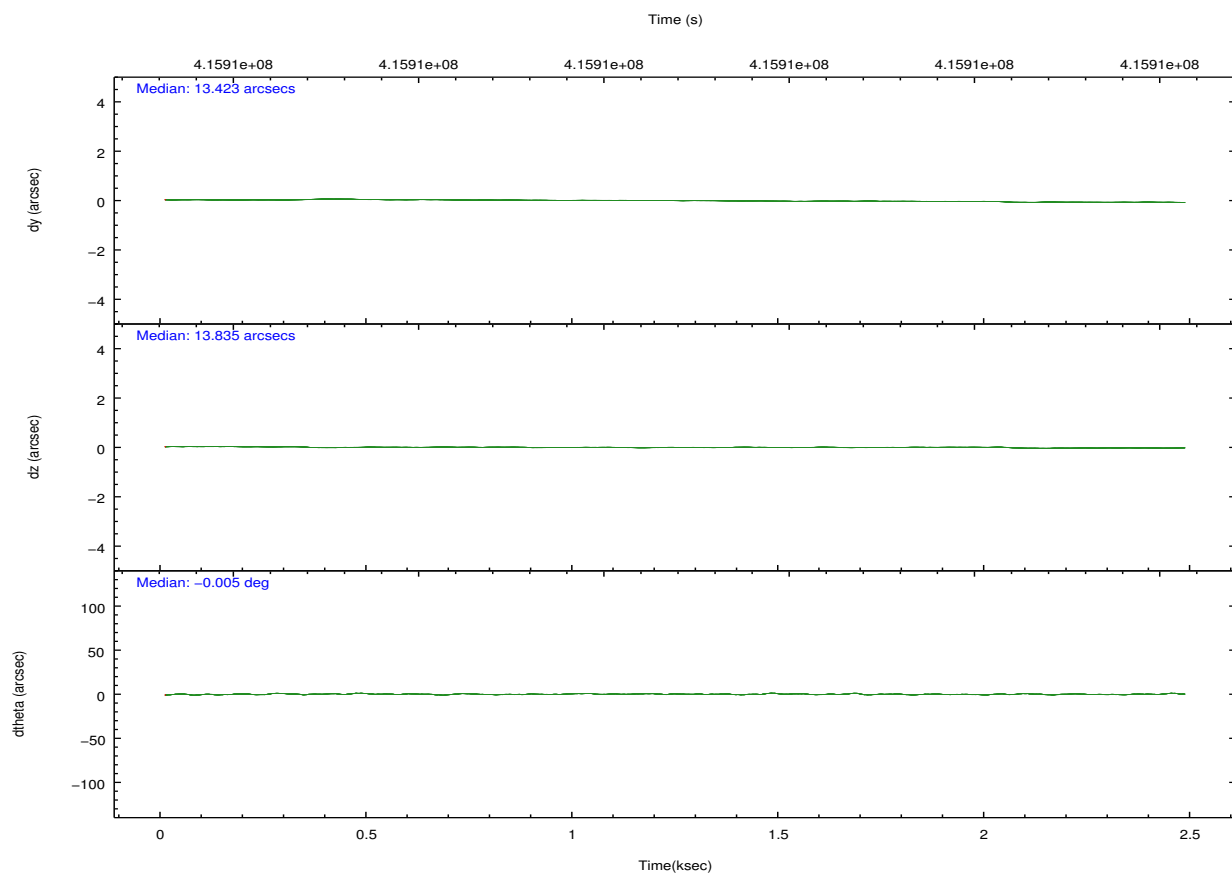
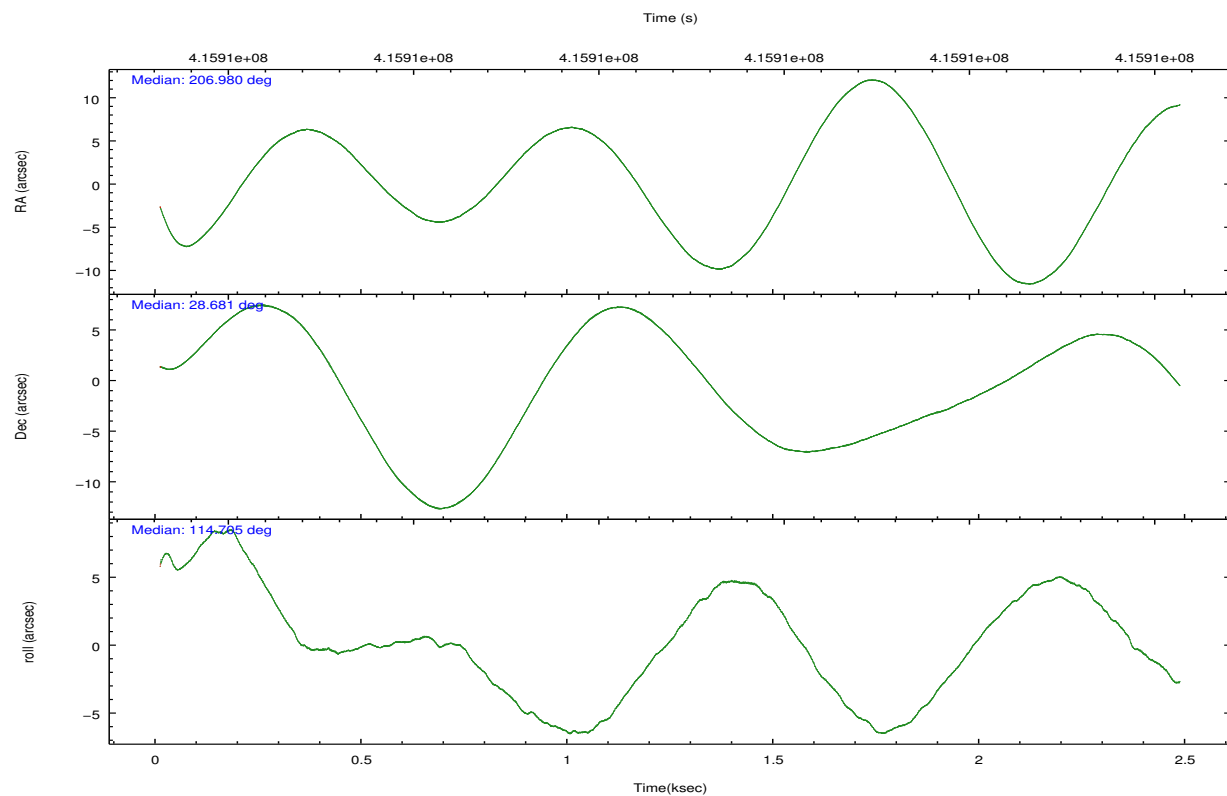
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	463	1348	499	806	1273
	3%	6%	3%	4%	7%
grade 1 events	7	148	10	22	16
	0%	0%	0%	0%	0%
grade 2 events	274	3098	356	1539	981
	2%	15%	2%	9%	6%
grade 3 events	146	414	164	660	516
	1%	2%	1%	3%	3%
grade 4 events	143	379	158	687	492
	1%	1%	1%	4%	3%
grade 5 events	604	1541	577	1600	873
	4%	7%	4%	9%	5%
grade 6 events	283	5103	345	3886	1125
	2%	24%	2%	23%	7%
grade 7 events	10713	8466	10730	7325	10672
	84%	41%	83%	44%	66%

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	207.006095	206.9803165731545	CCD I2 on	N	N
[deg] Pointing Dec	28.664639	28.68039371428493	CCD I3 on	O1	Y
[deg] Pointing Roll	114.544949	114.7139755943817	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	-190.145094680475	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01257209746719923	CCD S4 on	Y	Y
[s] Observation start time (MET)	415907632.184000	415906460.35387	CCD S5 on	N	N
Observation start date	2011-03-07T17:52:46	2011-03-07T17:34:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	415909432.184000	415910143.69156	On-chip summing requested	N	N
Observation end date	2011-03-07T18:22:46	2011-03-07T18:35:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



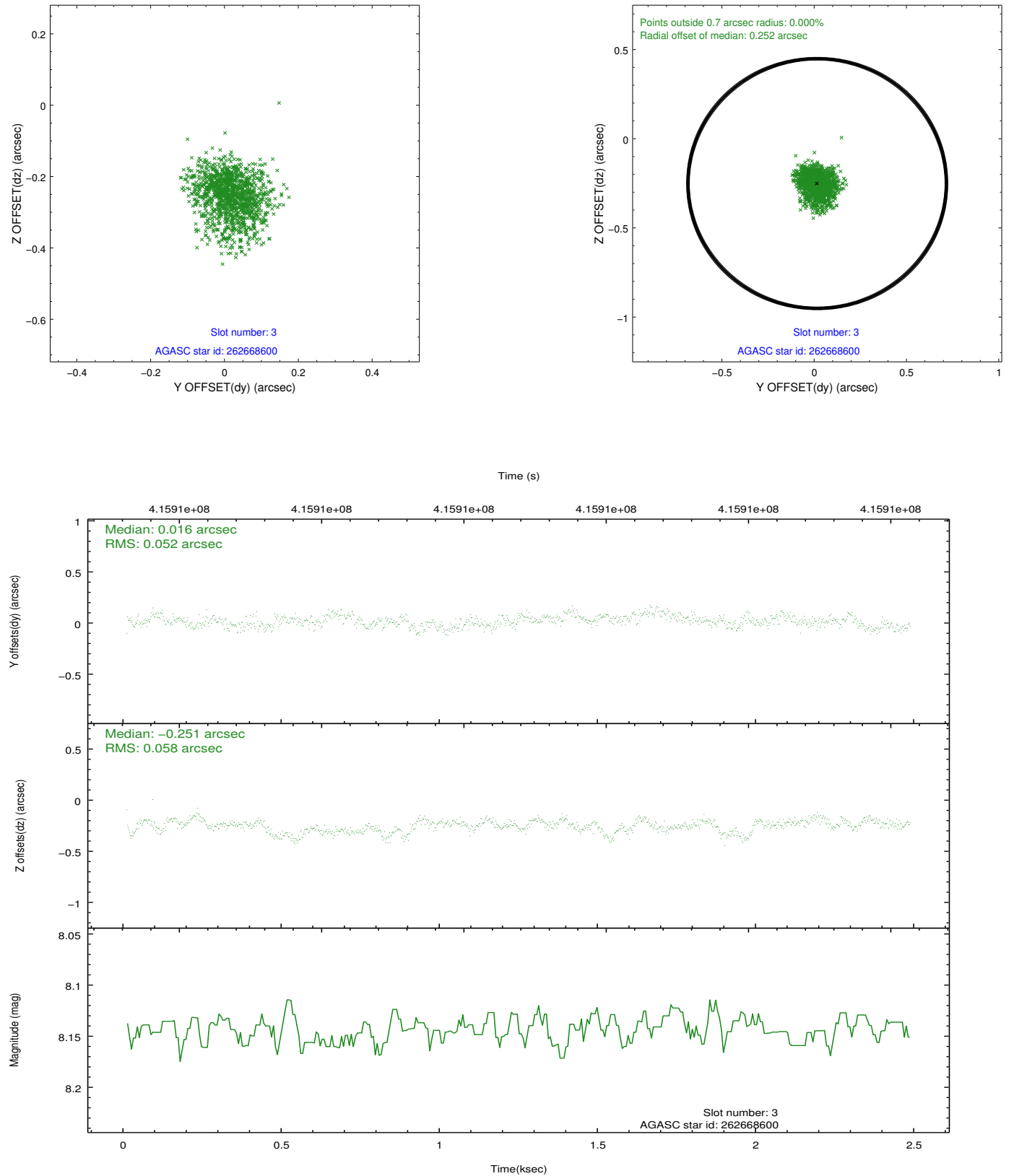


Slot Statistics

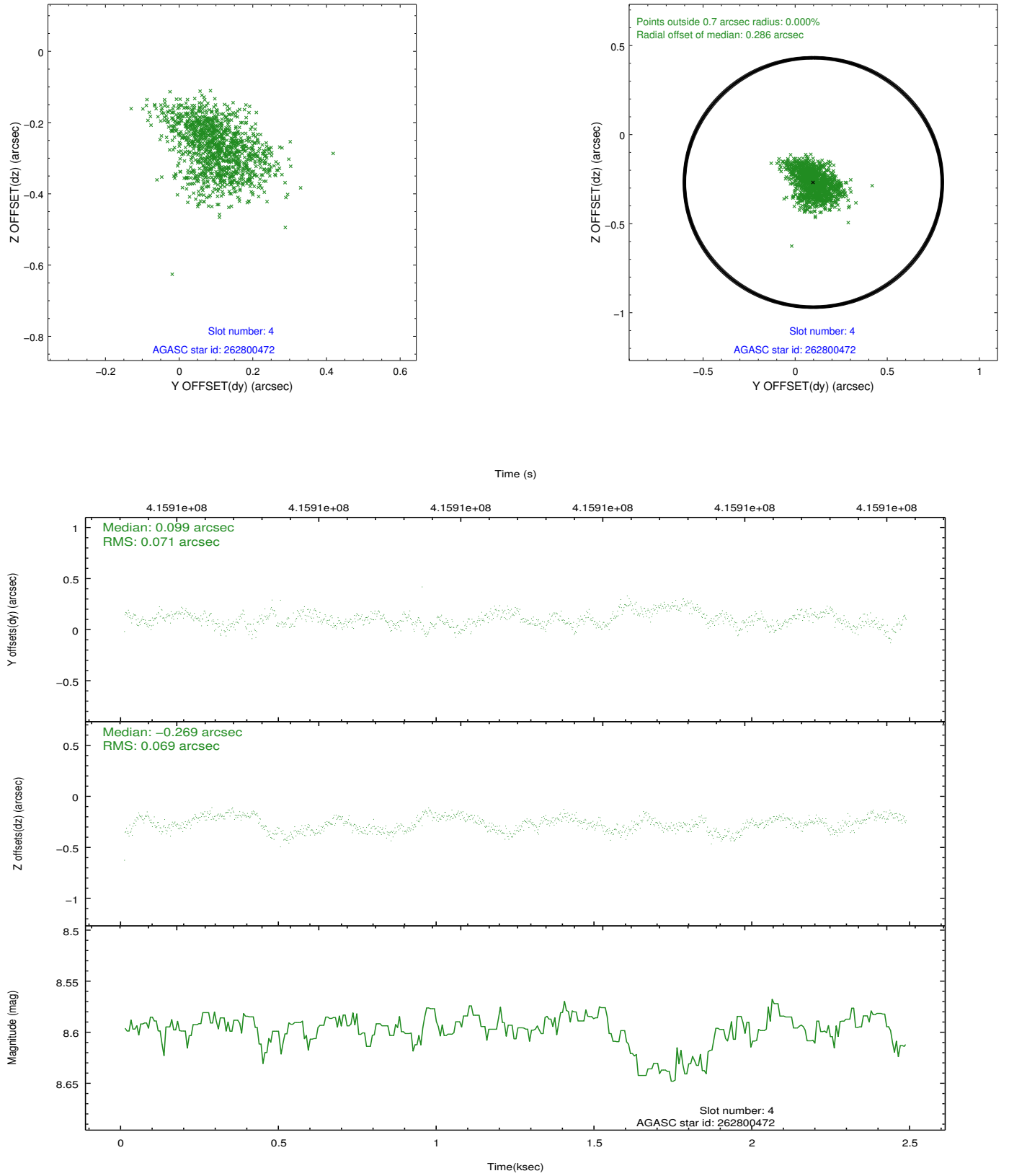
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.07	605	0.062	-0.015	0.007	0.009	0.000000	0.000000	929.74	-1730.73
1	FID	ACIS-S-4	7.07	605	0.137	-0.015	0.006	0.009	0.000000	0.000000	2148.68	170.73
2	FID	ACIS-S-5	7.11	605	-0.226	0.042	0.005	0.010	0.000000	0.000000	-1816.06	167.35
3	GUIDE	262668600	8.14	1208	0.016	-0.251	0.083	0.133	206.125817	28.976683	2181.91	2051.86
4	GUIDE	262800472	8.60	1208	0.099	-0.269	0.106	0.168	206.644898	27.942627	-1884.81	2125.47
5	GUIDE	262805336	8.83	1209	-0.044	0.173	0.086	0.136	207.518475	29.280395	1349.85	-2383.25
6	GUIDE	262806832	9.81	1209	-0.013	0.242	0.178	0.282	207.510511	29.165031	984.33	-2192.92
7	GUIDE	262807640	9.73	1204	-0.057	0.104	0.159	0.263	207.482438	29.079812	739.93	-1986.34

2.4 Star Slots

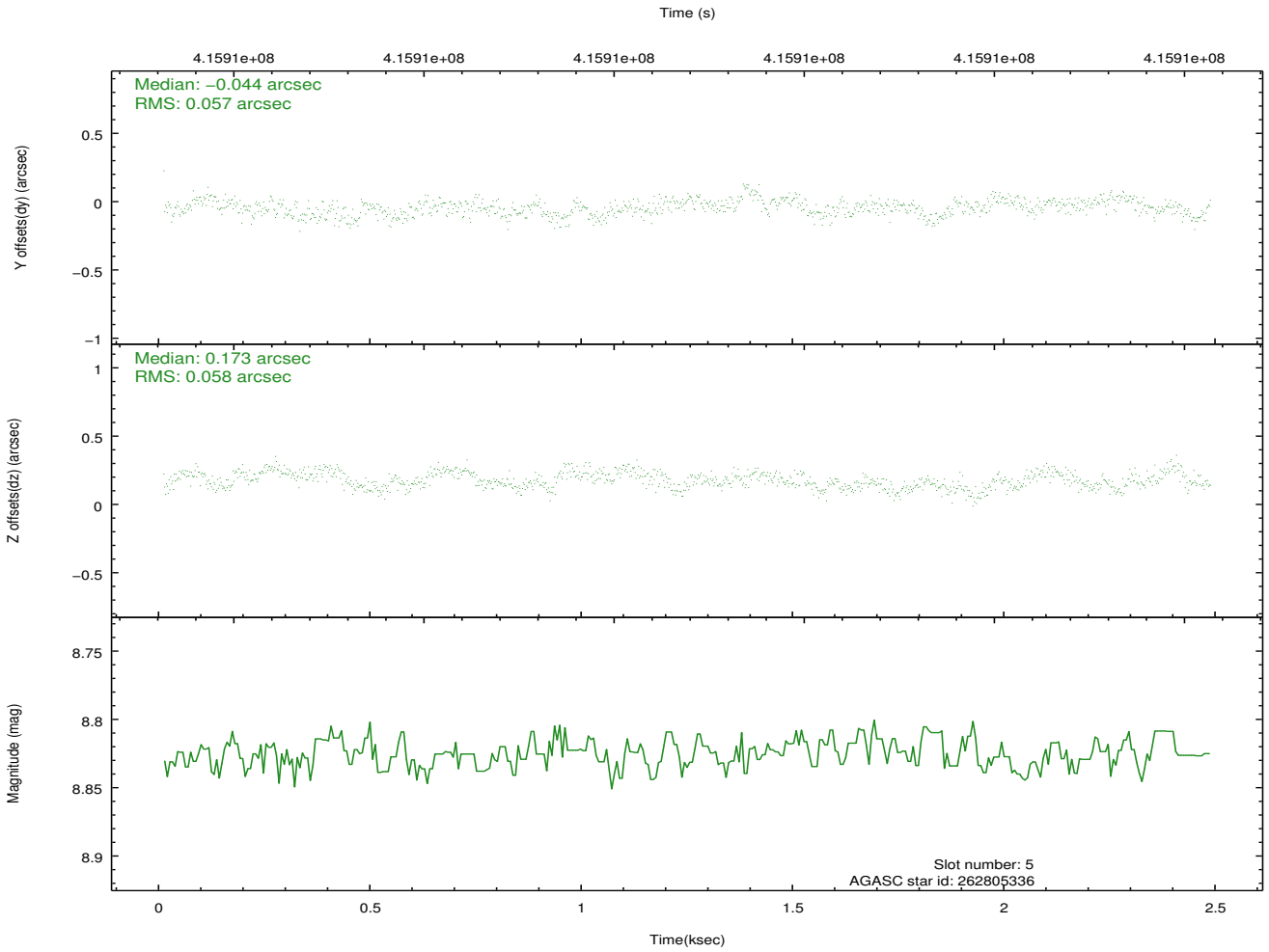
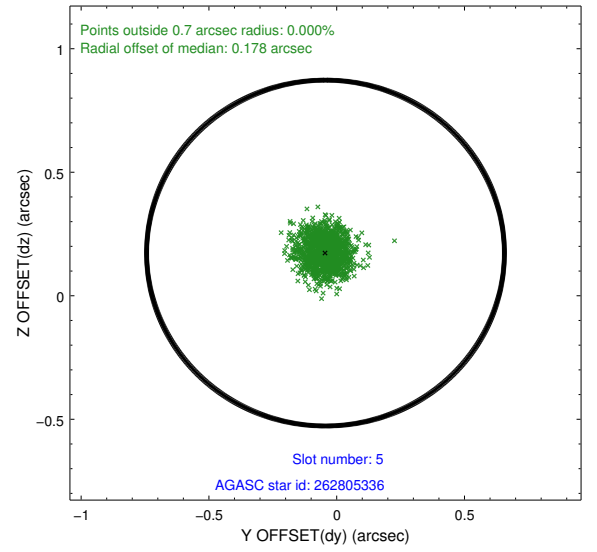
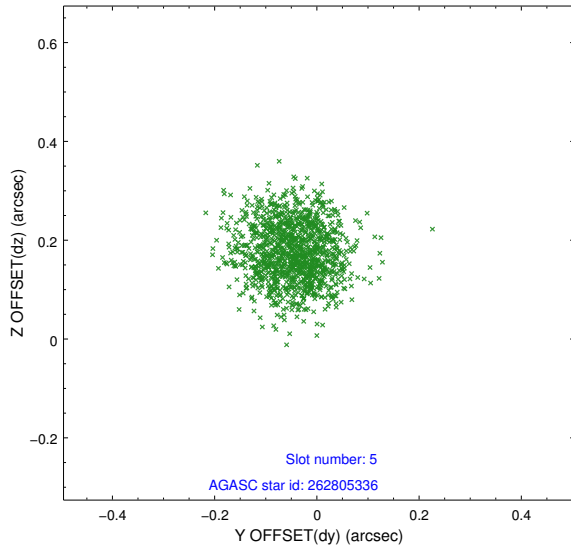
2.4.1 Slot 3



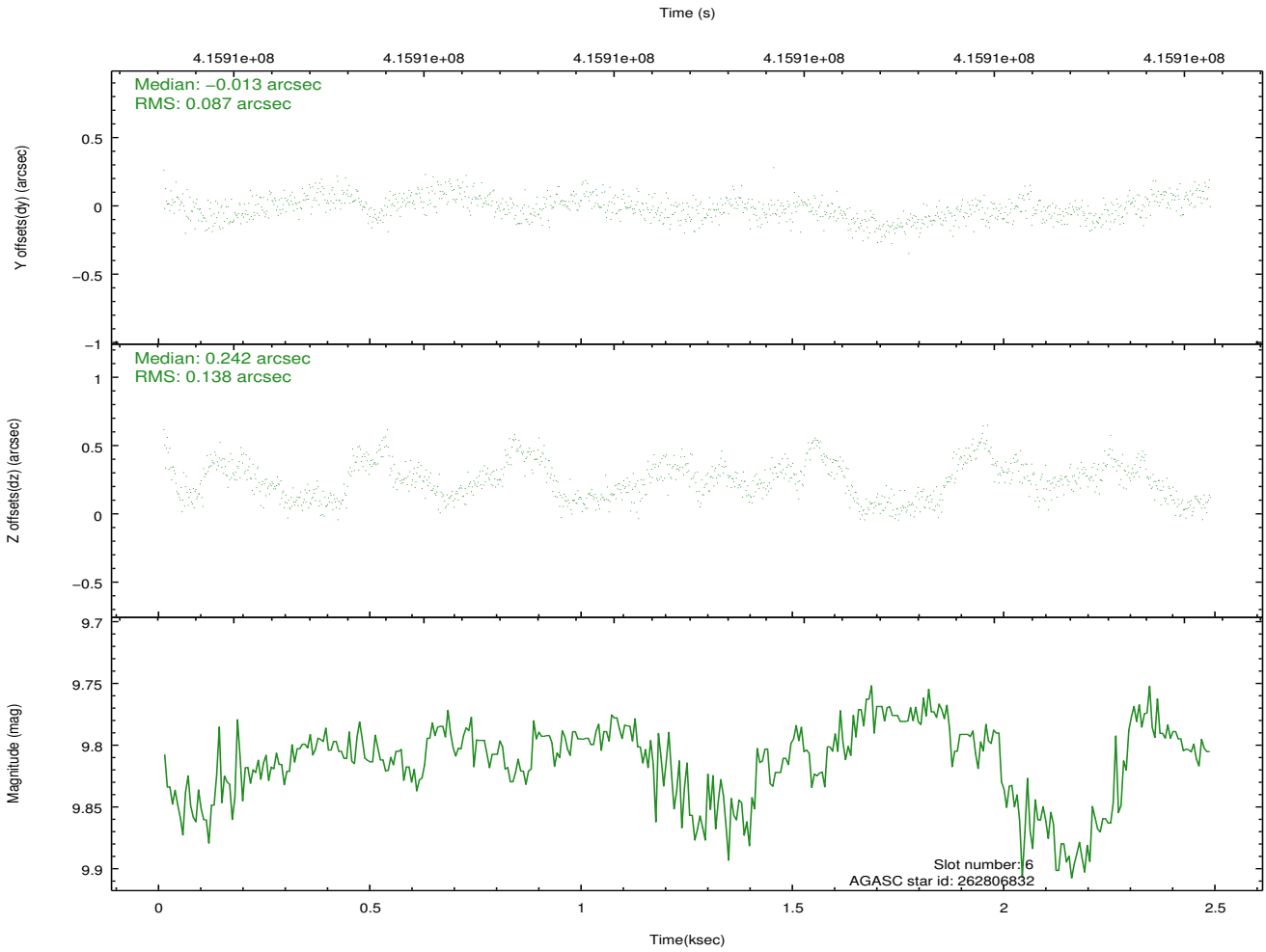
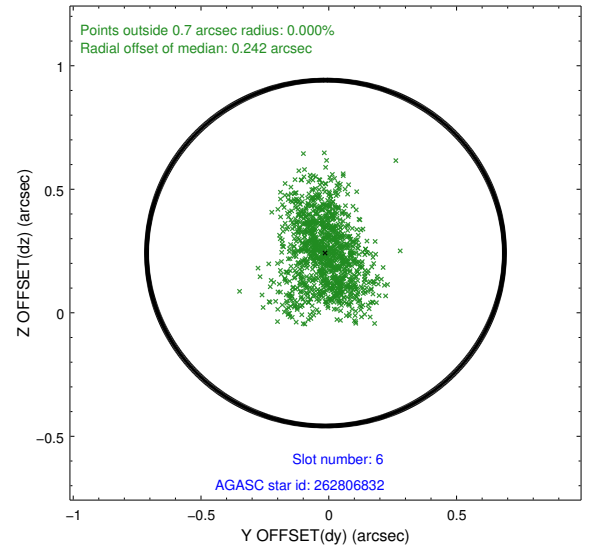
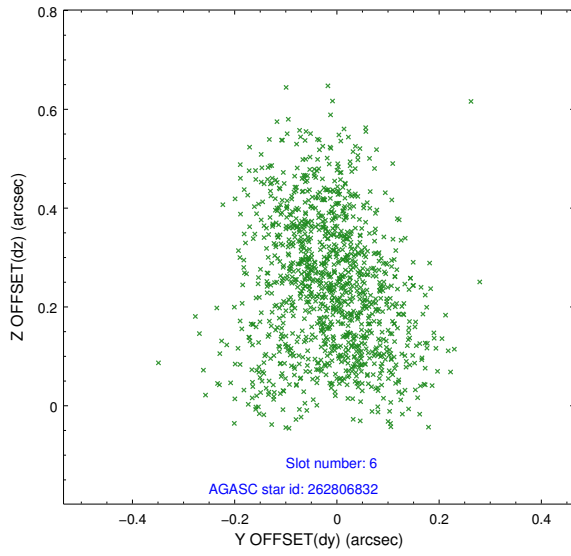
2.4.2 Slot 4



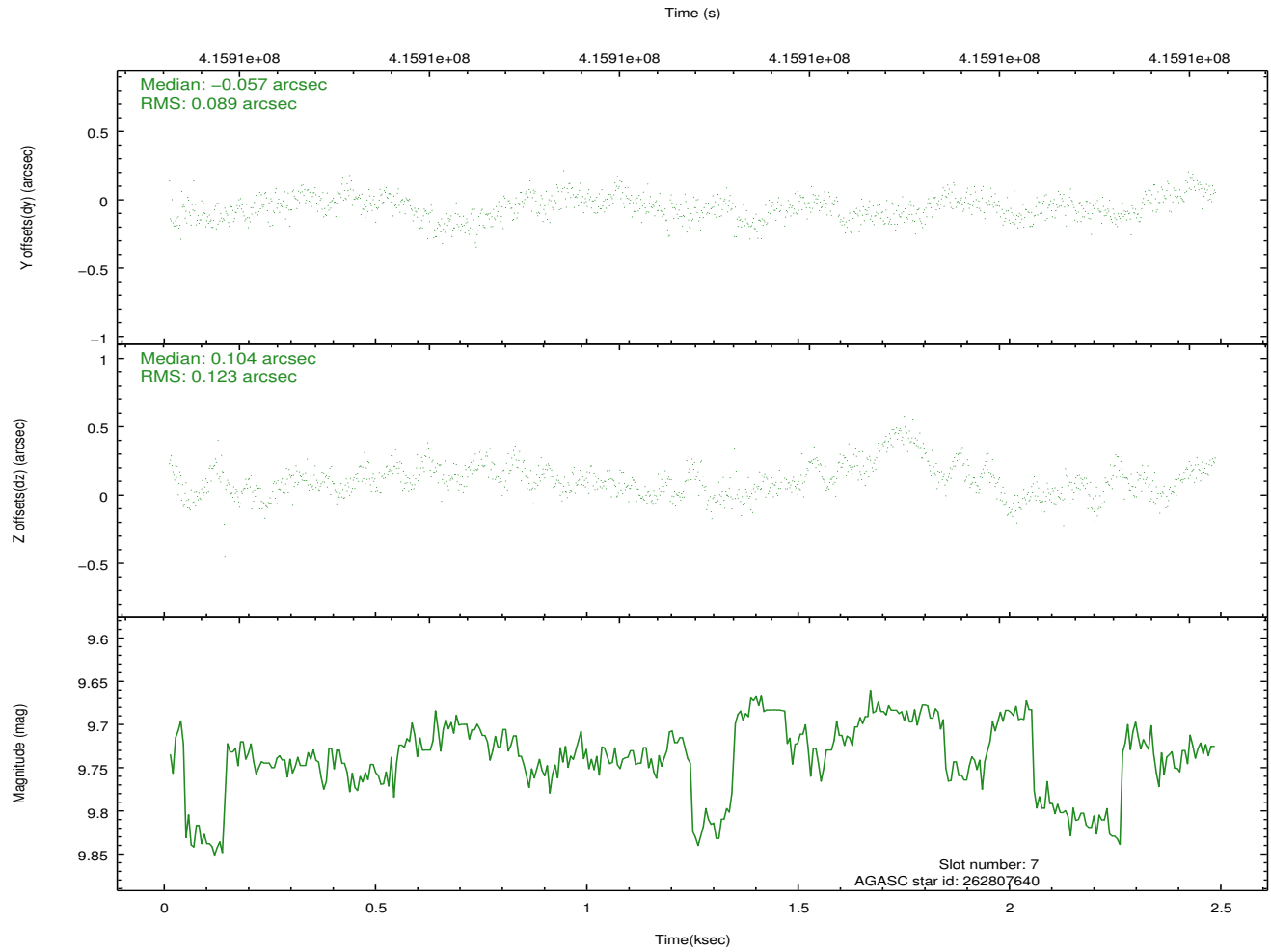
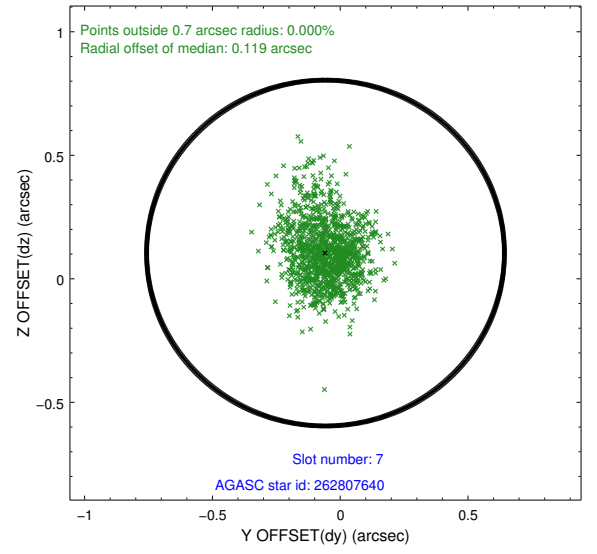
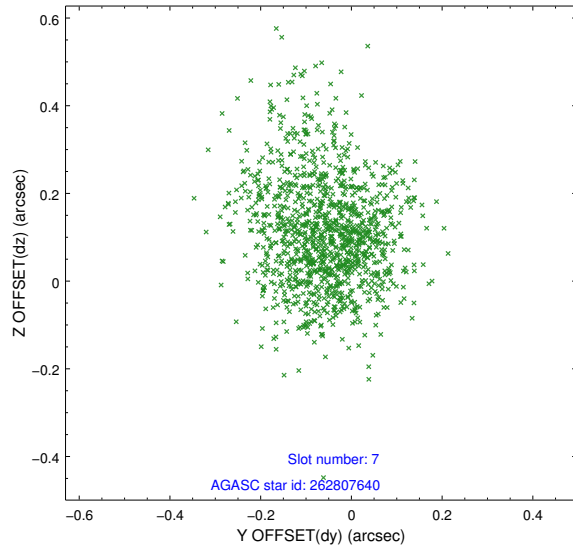
2.4.3 Slot 5



2.4.4 Slot 6

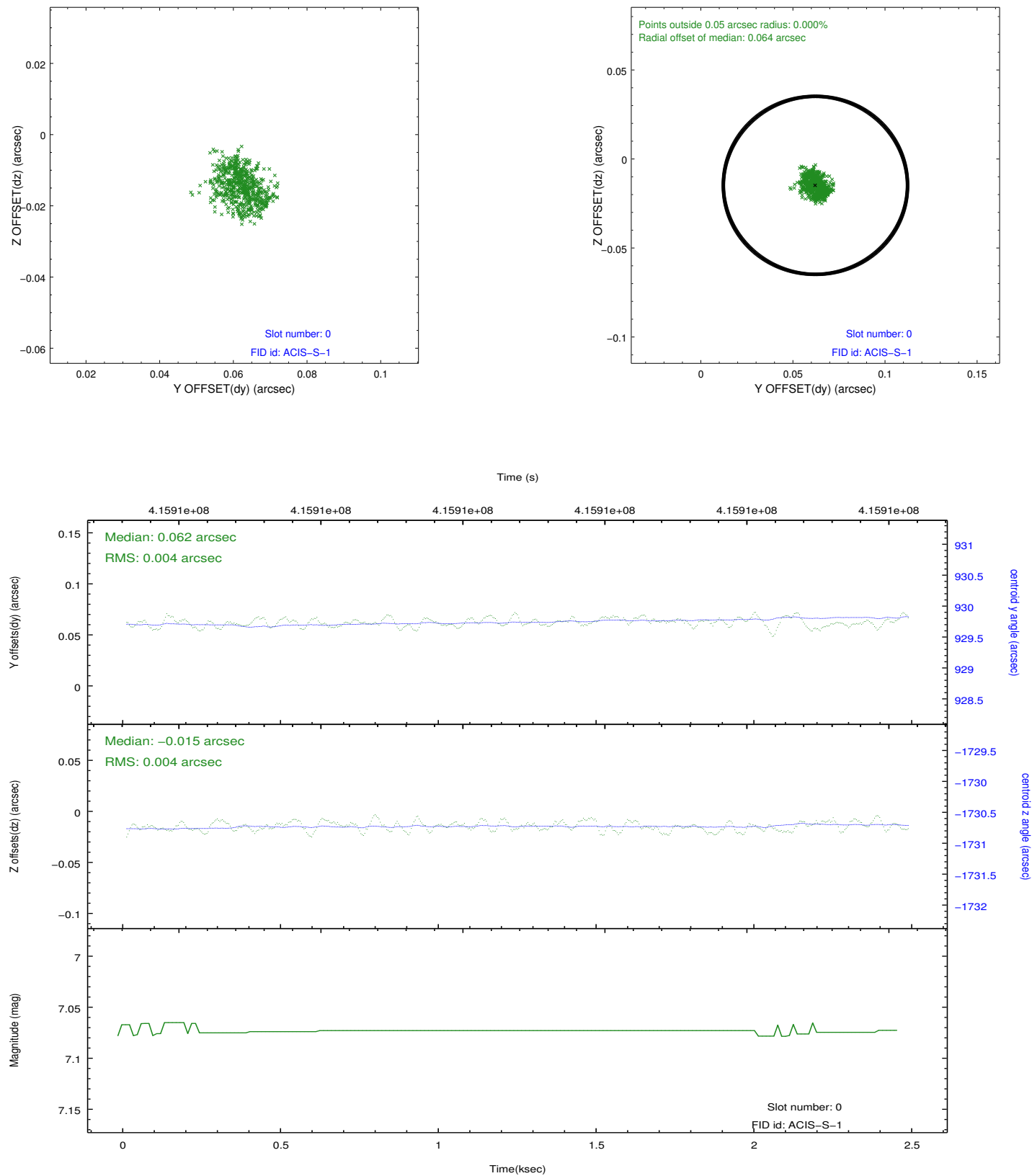


2.4.5 Slot 7

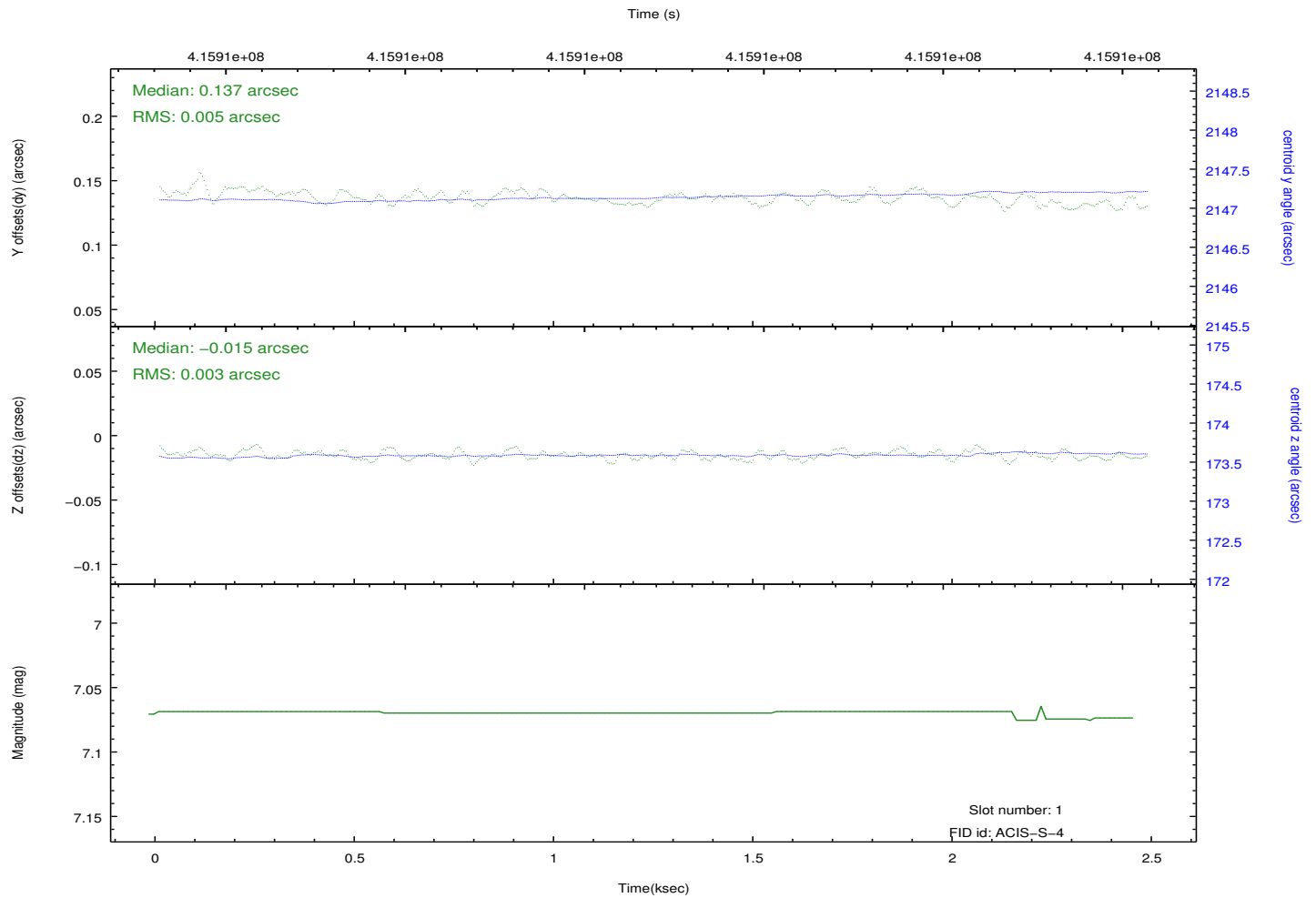
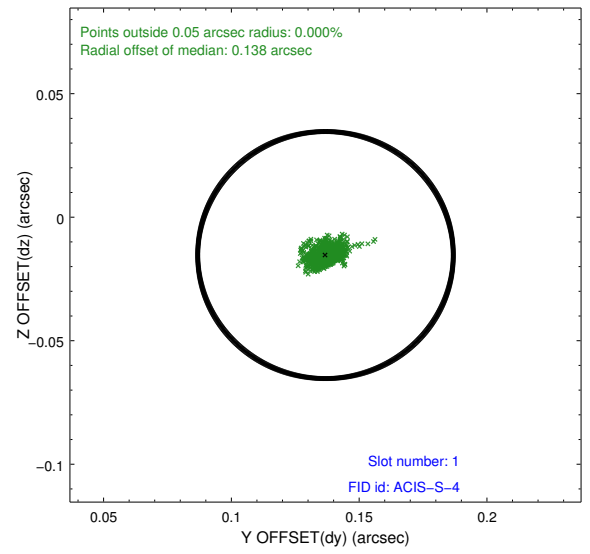
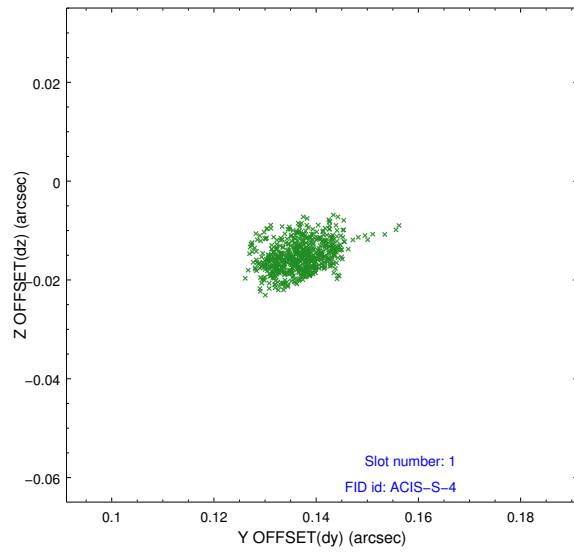


2.5 FID Slots

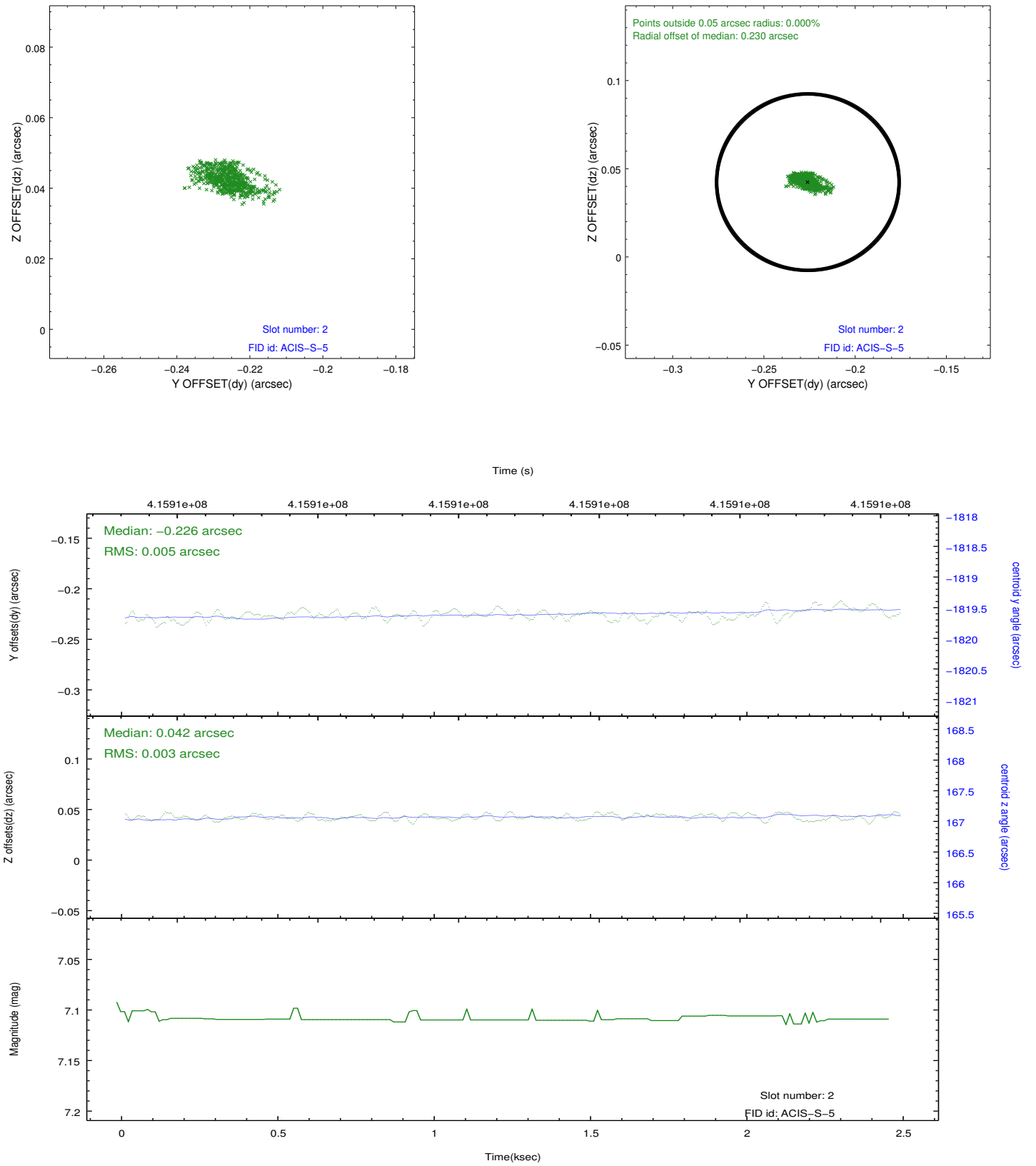
2.5.1 Slot 0



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)	2012.02.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.8352000141144

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.