

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12732 - L2 Version 2
Chandra X-Ray Center

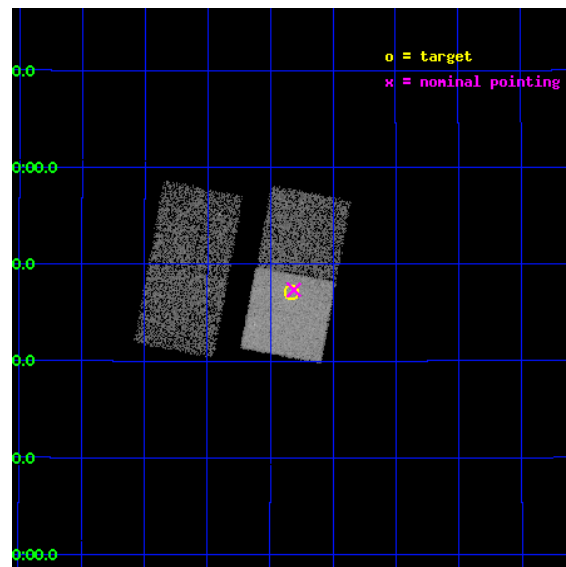
L2 Processing Date : Feb 2 2012

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1 Front

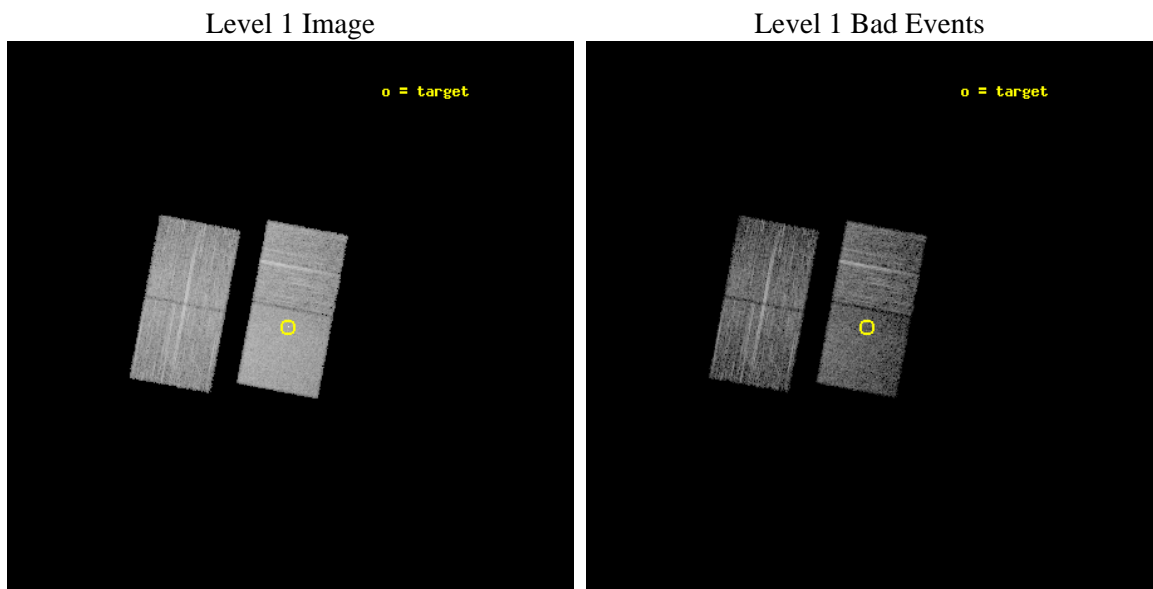
seq_num	702368	Sequence number
obs_id	12732	Observation id
title	Completing the Chandra 3C Snapshot Survey: Extragalactic Radio Sources with $z < 0.3$	Proposal title
observer	Dr. Daniel Harris	Principal investigator
object	3C 234	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.456667	Observer's specified target RA [deg]
dec_targ	28.785889	Observer's specified target Dec [deg]
ra_nom	150.45286272379	Nominal RA [deg]
dec_nom	28.789392987546	Nominal Dec [deg]
roll_nom	100.72254828323	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8050.7000619173	Sum of GTIs [s]
livetime	7945.5117387692	Livetime [s]
ontime2	8050.7000619173	Sum of GTIs [s]
ontime3	8050.7000619173	Sum of GTIs [s]
ontime6	8050.7000619173	Sum of GTIs [s]
ontime7	8050.7000619173	Sum of GTIs [s]
l2events	47034	Number of level 2 events



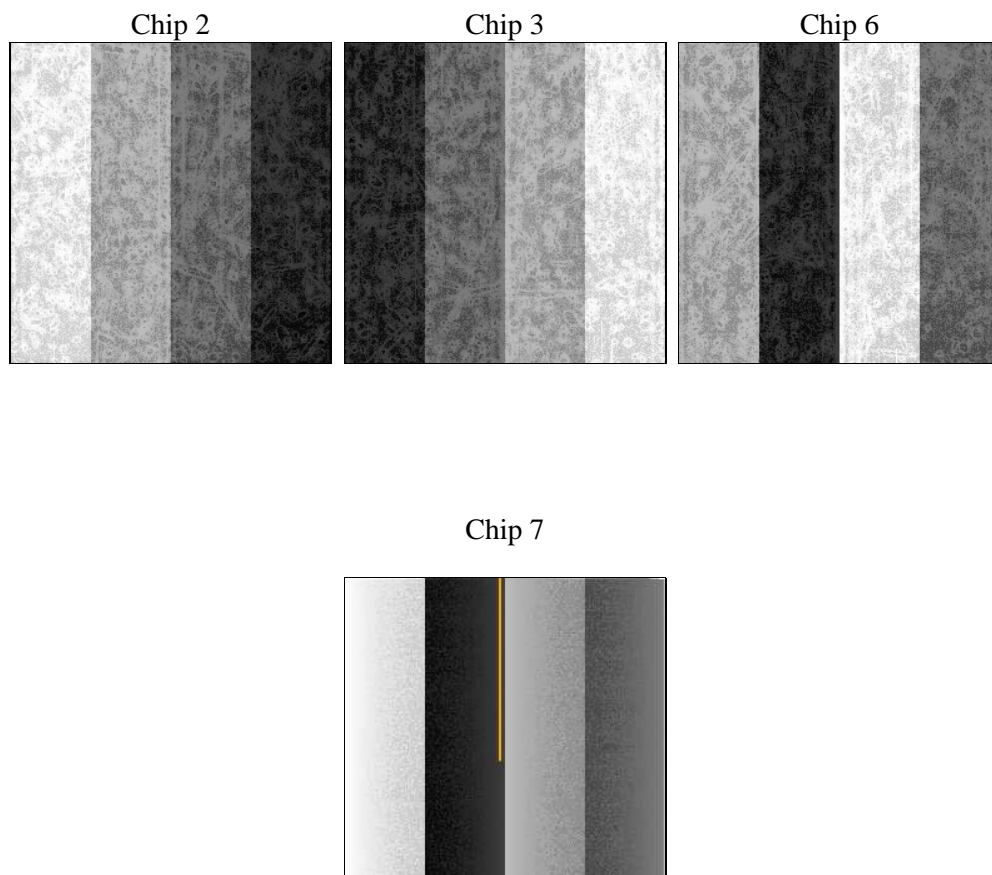
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	8050.7000619173	Sum of GTIs [s]
caldsver	4.4.7	 	ontime2	8050.7000619173	Sum of GTIs [s]
date	2012-02-02T06:48:15	Date and time of file creation	ontime3	8050.7000619173	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8050.7000619173	Sum of GTIs [s]
			ontime7	8050.7000619173	Sum of GTIs [s]
			l1events	241944	Number of level 1 events

2.1.4 Events

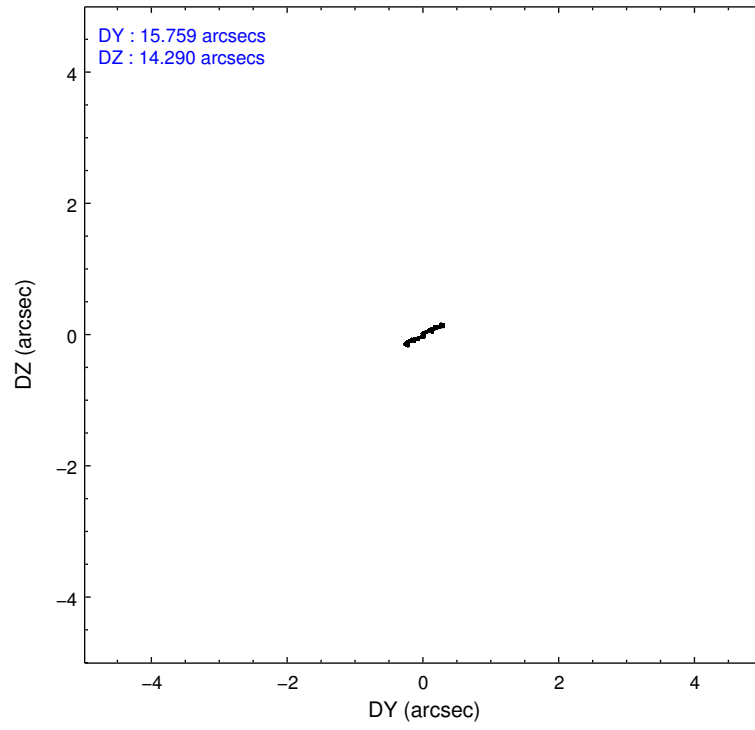
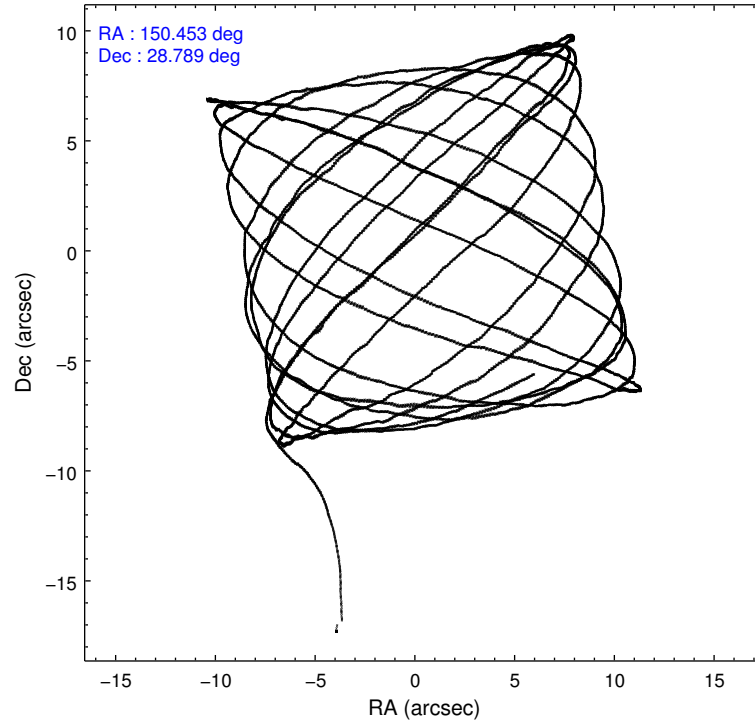
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	56737	55884	58373	70950
rejected events	50752	50049	51831	38917
rejected %	89%	89%	88%	54%

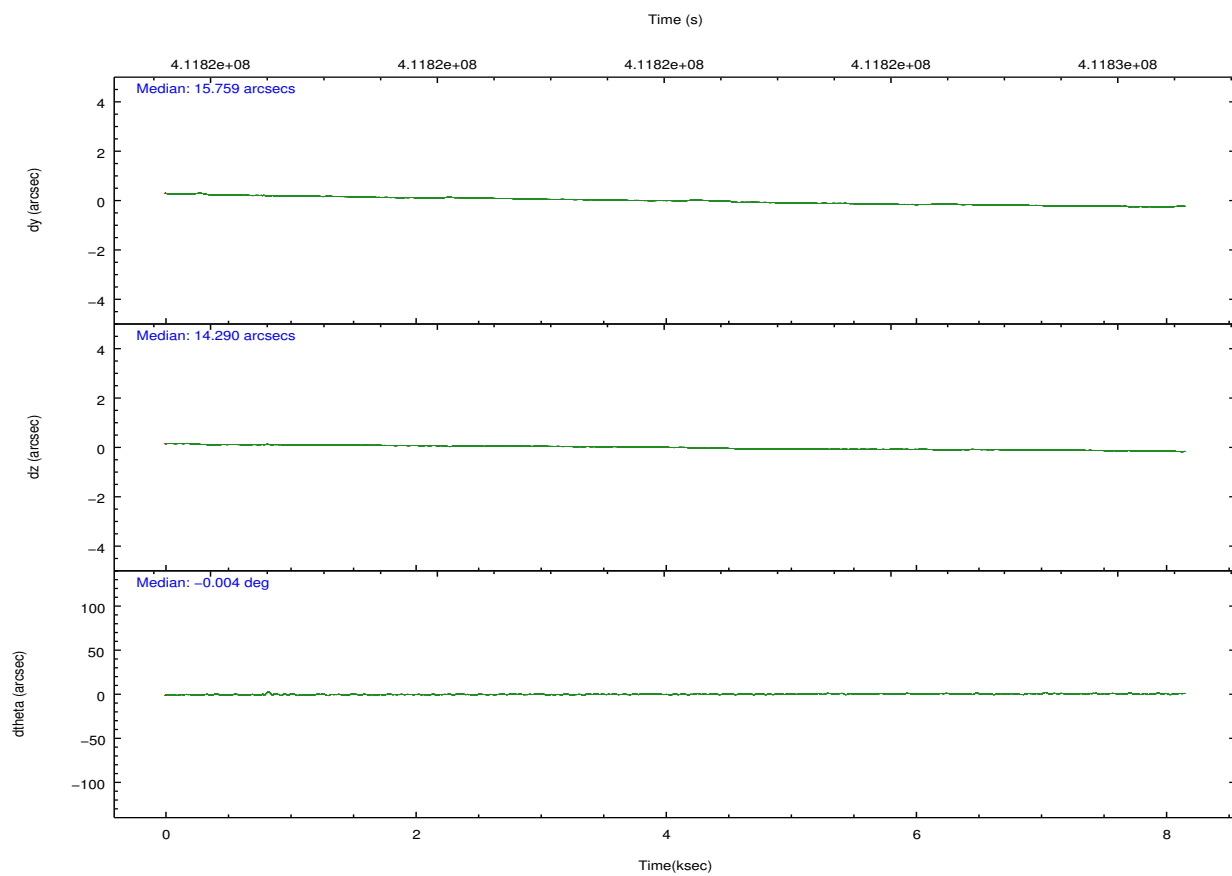
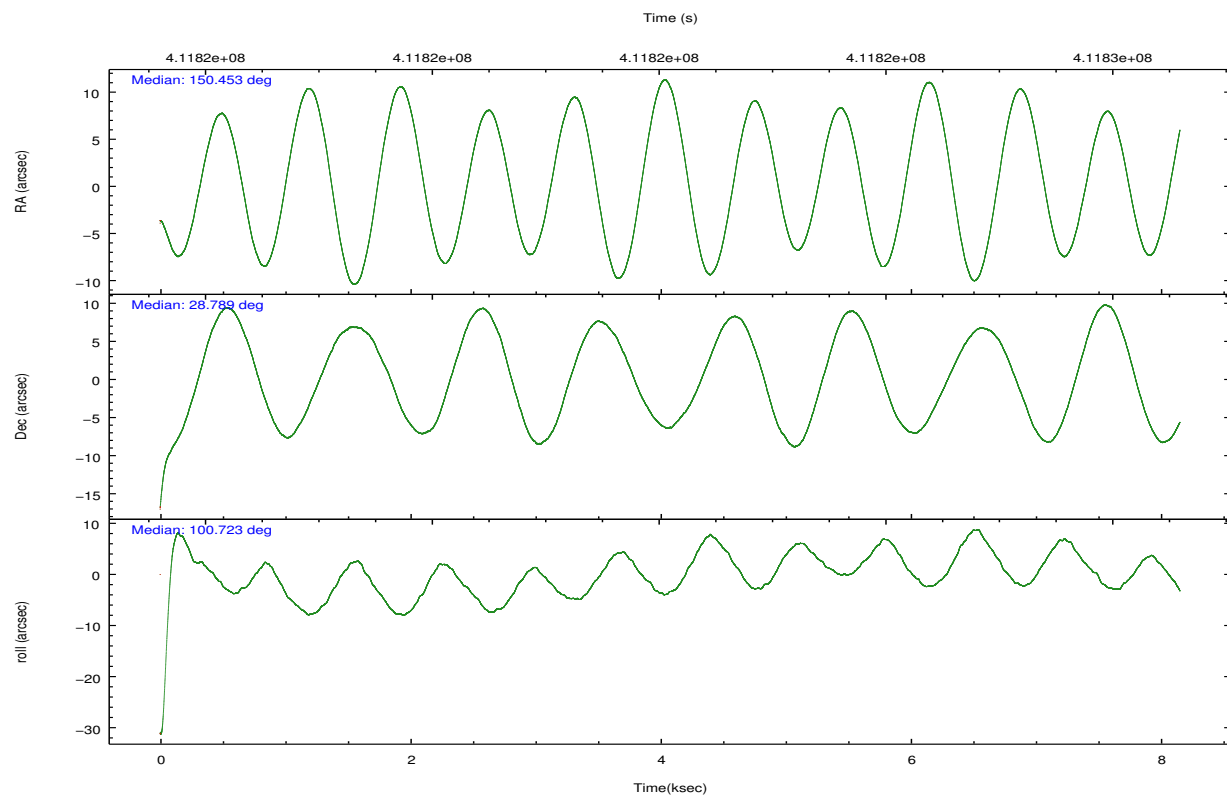
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2080	1950	2238	2983
	3%	3%	3%	4%
grade 1 events	31	33	25	97
	0%	0%	0%	0%
grade 2 events	1443	1330	1414	6514
	2%	2%	2%	9%
grade 3 events	671	620	686	2851
	1%	1%	1%	4%
grade 4 events	588	623	708	2777
	1%	1%	1%	3%
grade 5 events	2310	2656	2673	7334
	4%	4%	4%	10%
grade 6 events	1210	1314	1499	16931
	2%	2%	2%	23%
grade 7 events	48404	47358	49130	31463
	85%	84%	84%	44%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	150.473609	150.452862723792	CCD I2 on	O1	Y
[deg] Pointing Dec	28.768995	28.78939298754595	CCD I3 on	O2	Y
[deg] Pointing Roll	100.555987	100.7225482832279	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[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	N	N
[s] Observation start time (MET)	411818164.184000	411816996.62973	CCD S5 on	N	N
Observation start date	2011-01-19T09:54:58	2011-01-19T09:36:36	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	411826164.184000	411826893.51774	On-chip summing requested	N	N
Observation end date	2011-01-19T12:08:18	2011-01-19T12:21:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



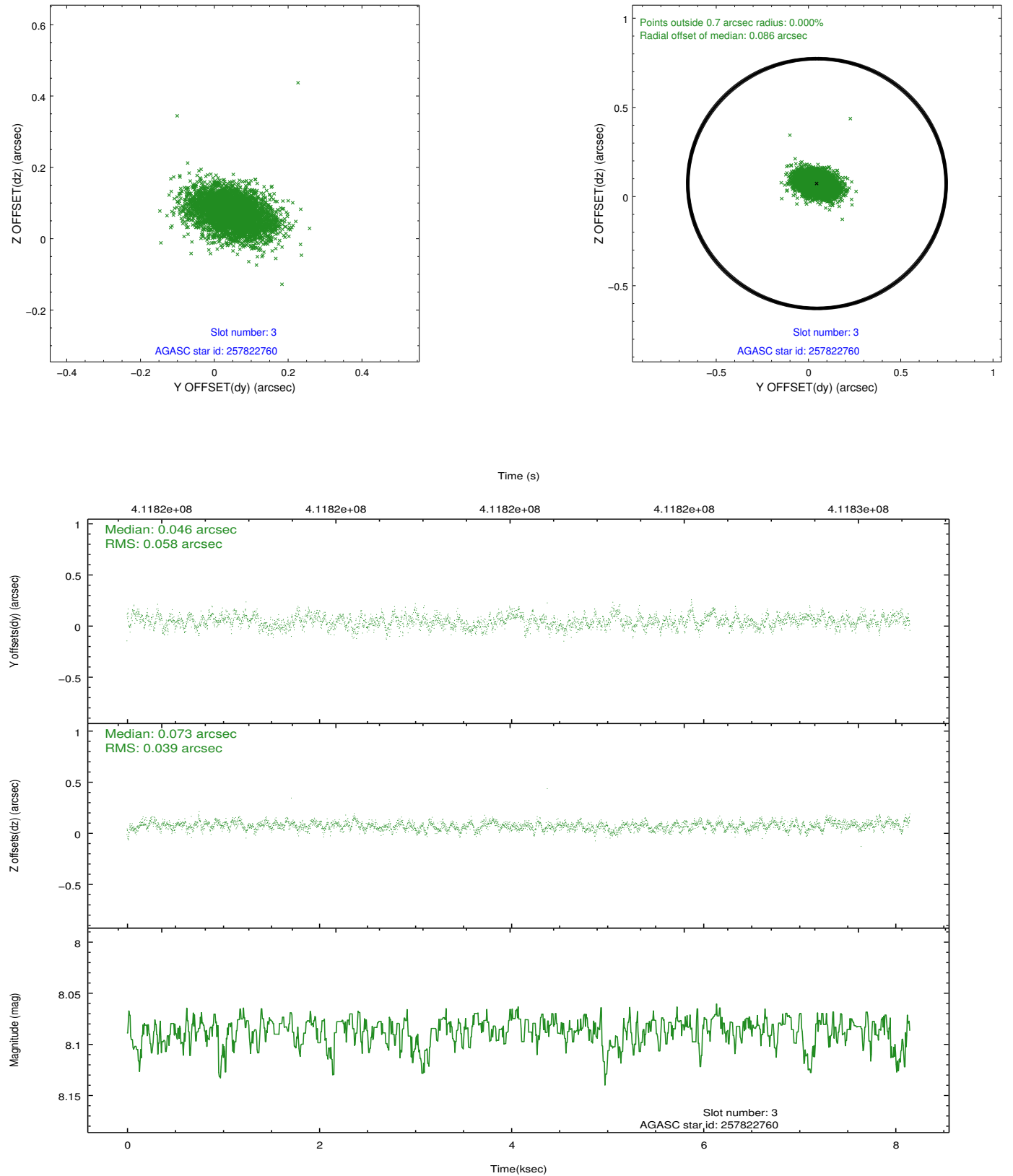


Slot Statistics

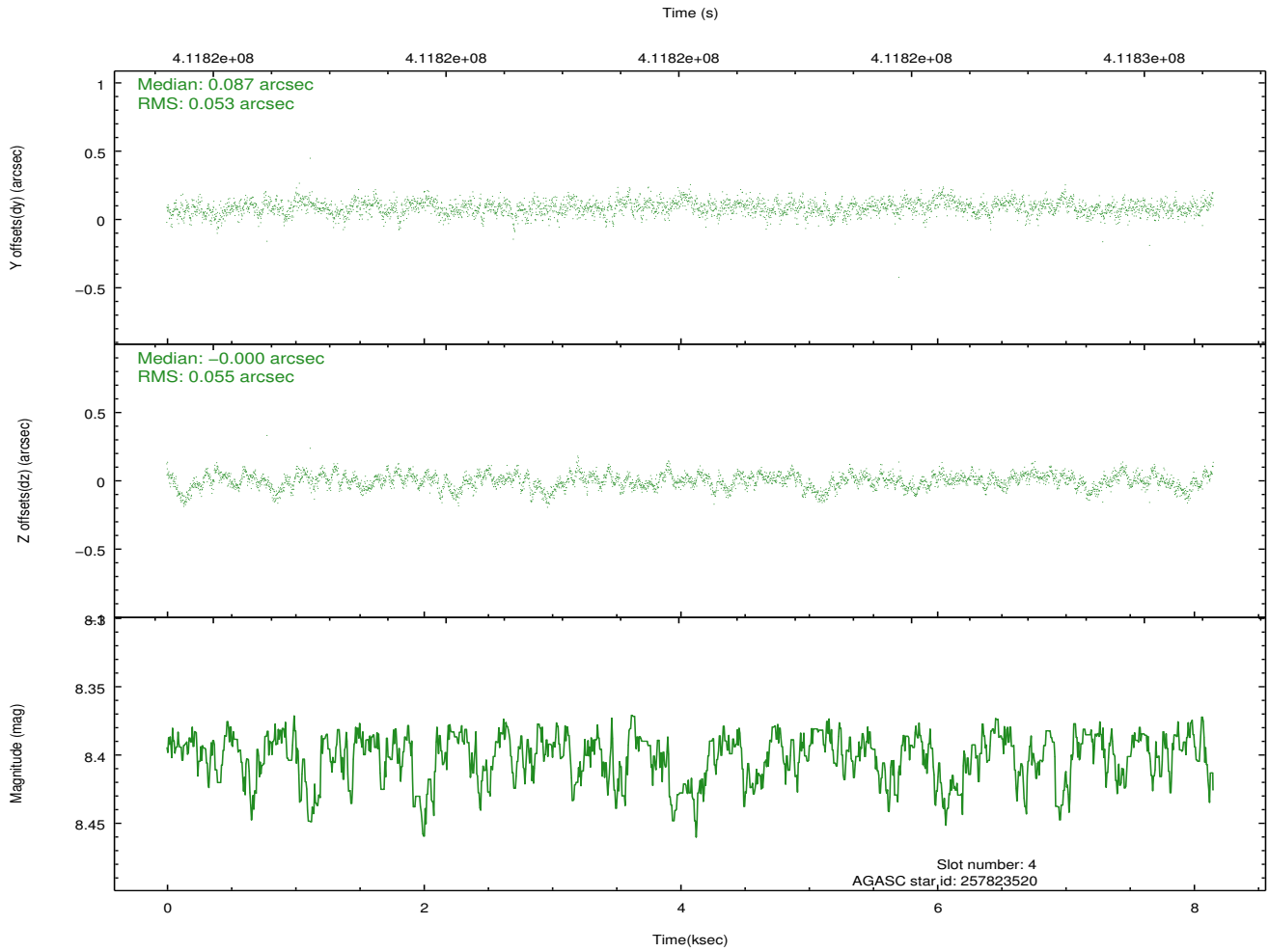
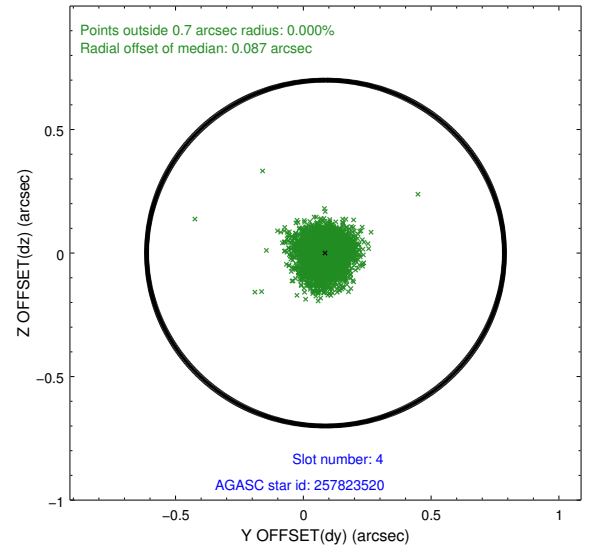
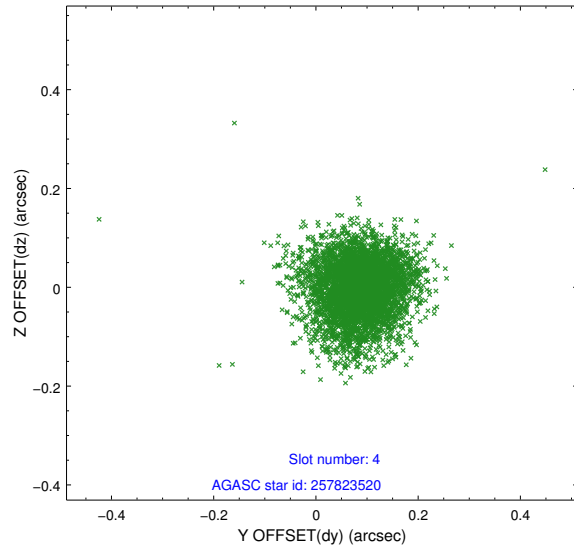
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.01	1989	-0.097	-0.052	0.007	0.012	0.000000	0.000000	-768.83	-1735.64
1	FID	ACIS-S-4	7.10	1989	0.196	0.061	0.005	0.010	0.000000	0.000000	2144.42	172.24
2	FID	ACIS-S-5	7.13	1989	-0.130	-0.000	0.007	0.012	0.000000	0.000000	-1820.83	166.64
3	GUIDE	257822760	8.09	3975	0.046	0.073	0.072	0.123	150.166199	28.173652	-1928.08	1352.13
4	GUIDE	257823520	8.40	3976	0.087	-0.000	0.079	0.134	150.413966	28.521916	-839.61	348.54
5	GUIDE	257824416	8.87	3977	0.173	0.056	0.091	0.144	150.393054	28.566740	-668.47	383.74
6	GUIDE	257827096	6.64	3978	-0.140	-0.101	0.070	0.123	150.326367	28.784409	139.93	446.28
7	GUIDE	257828008	8.79	3973	-0.163	-0.021	0.076	0.123	149.749181	29.160950	1811.33	1979.10

2.4 Star Slots

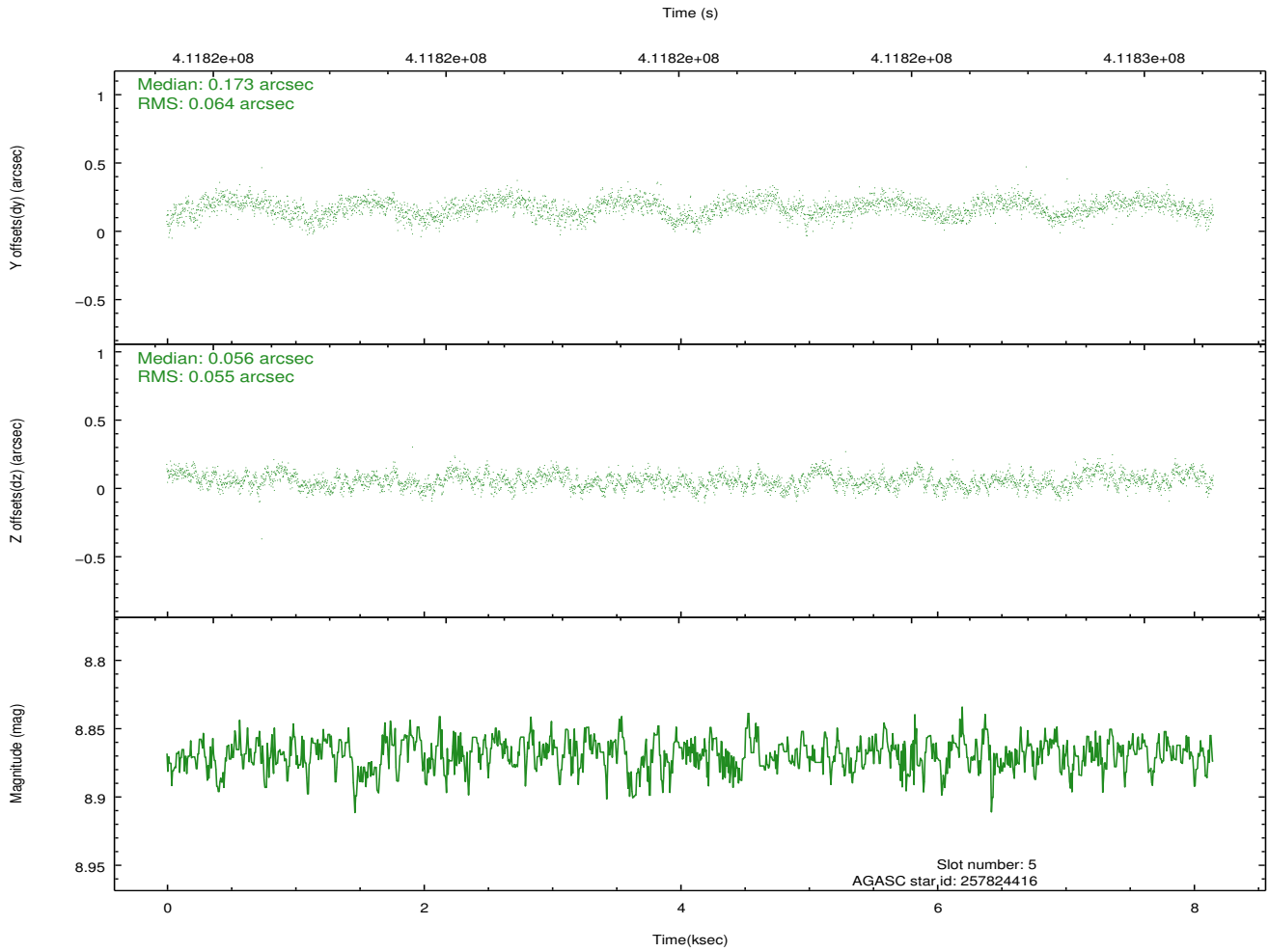
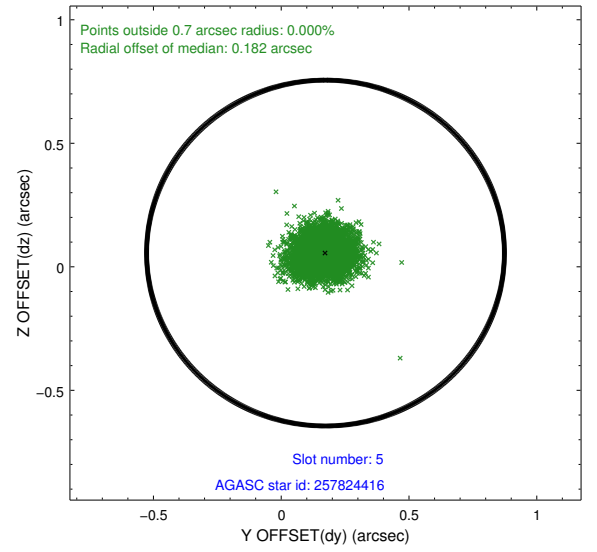
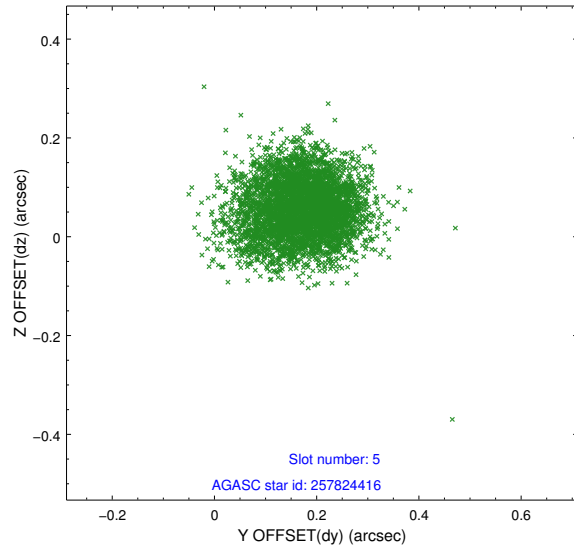
2.4.1 Slot 3



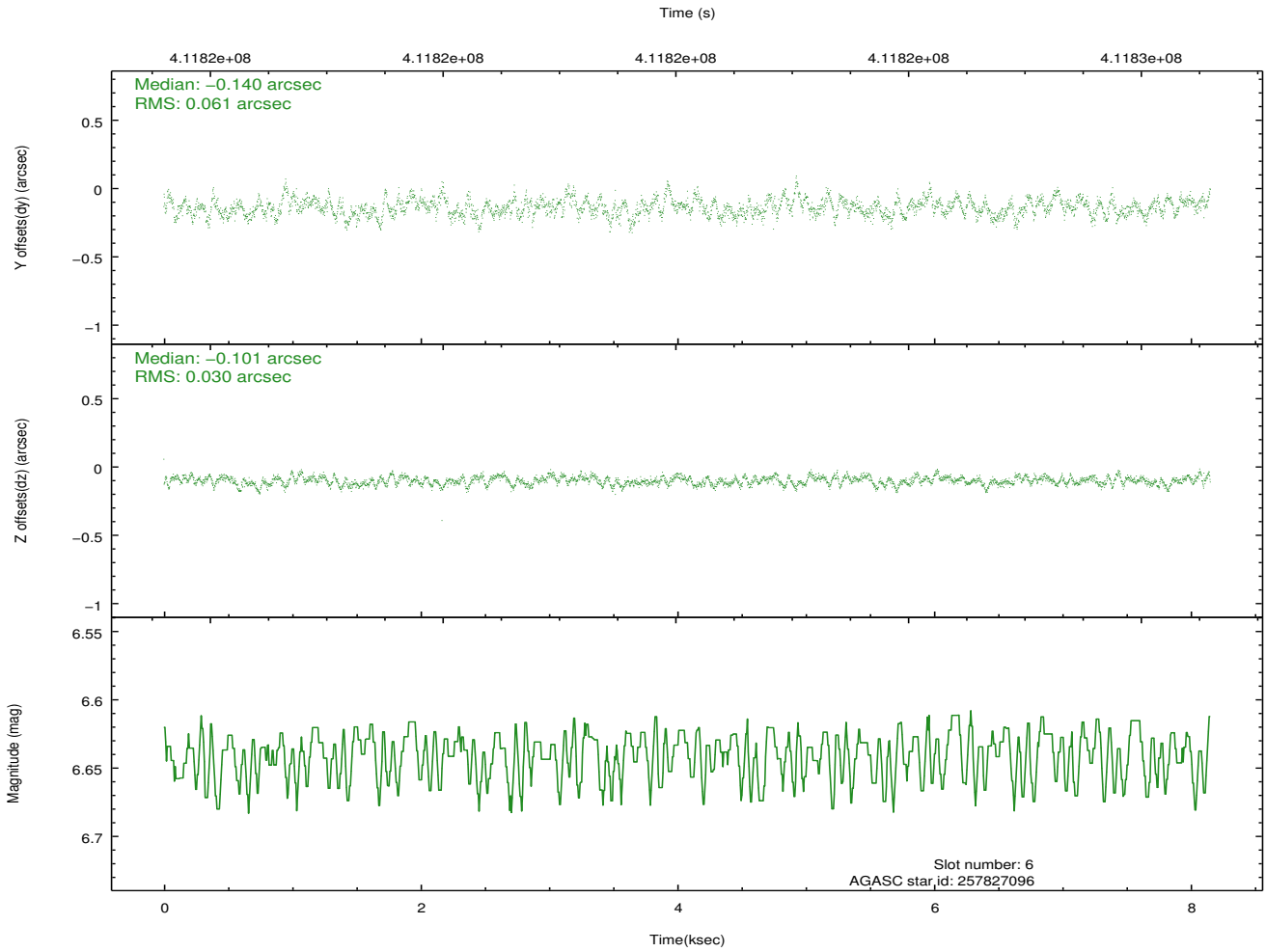
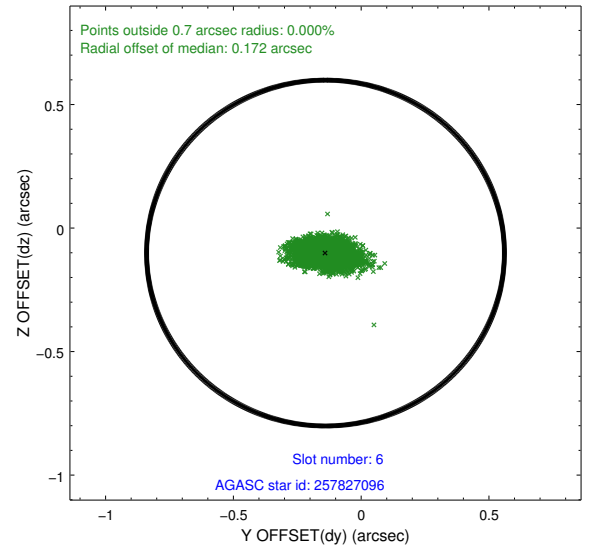
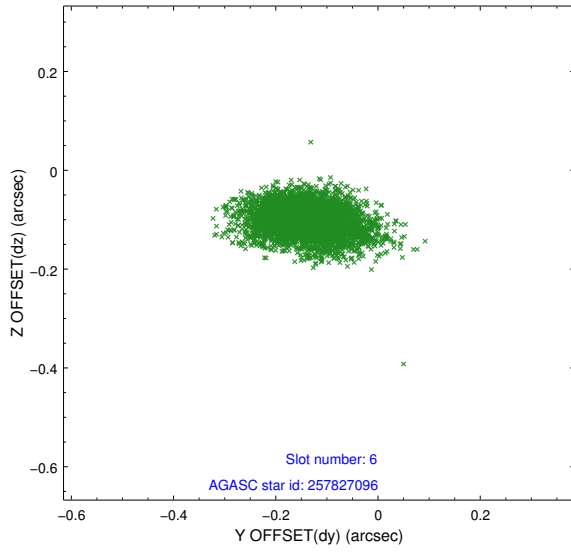
2.4.2 Slot 4



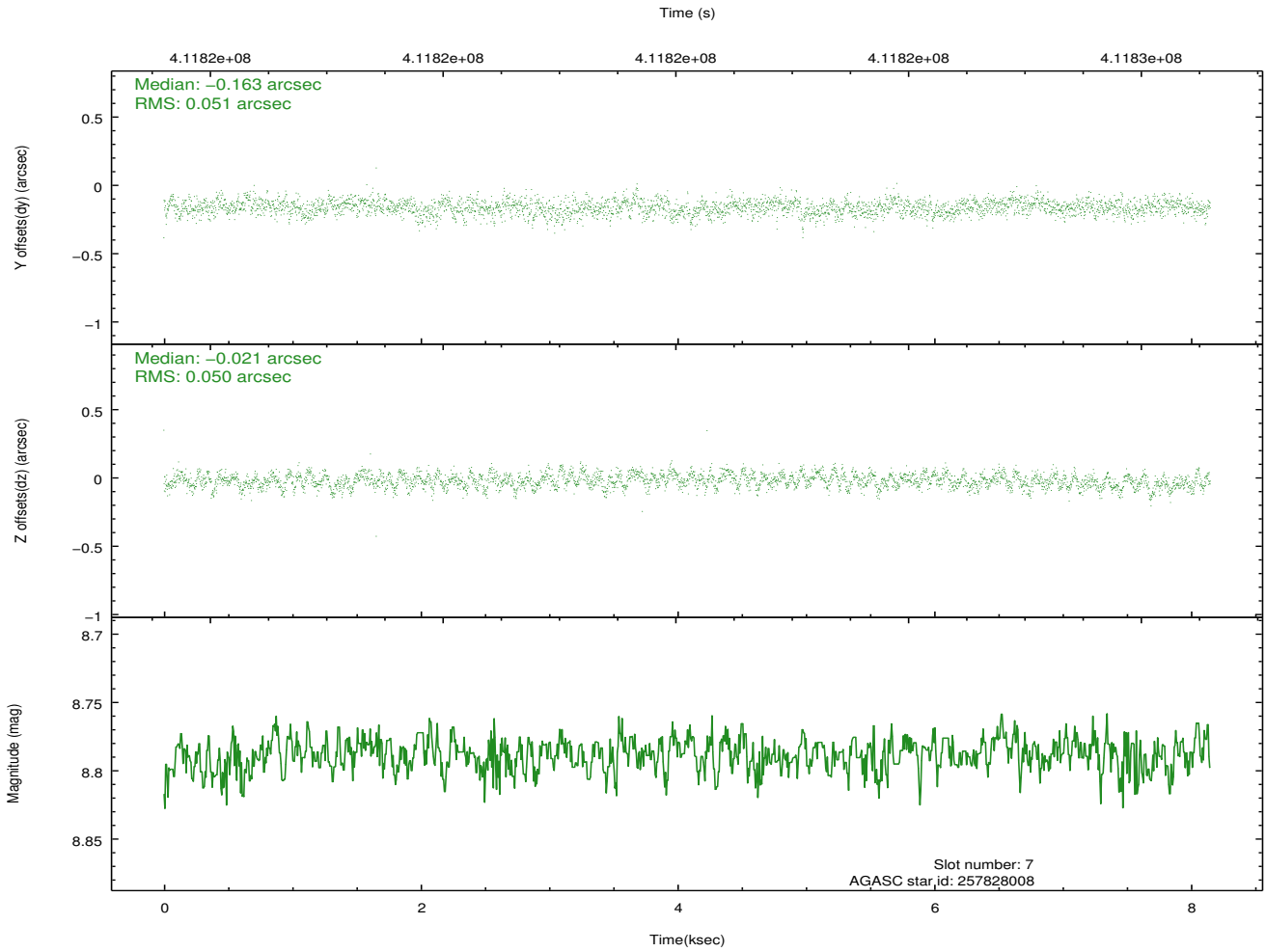
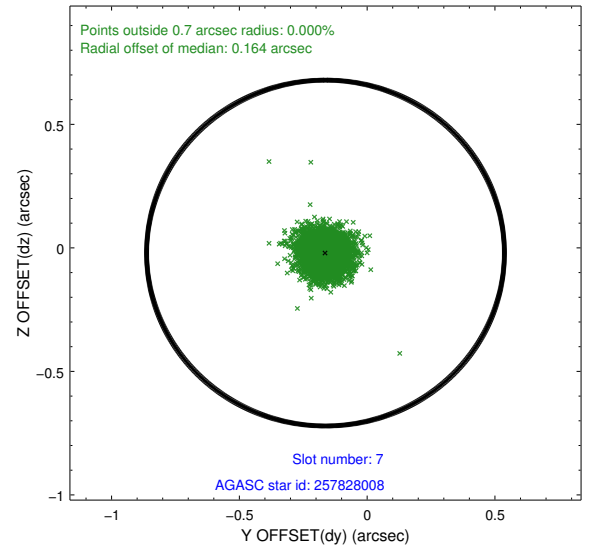
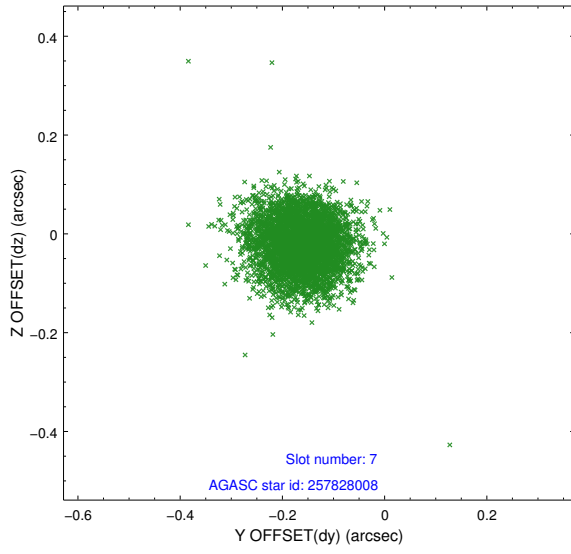
2.4.3 Slot 5



2.4.4 Slot 6

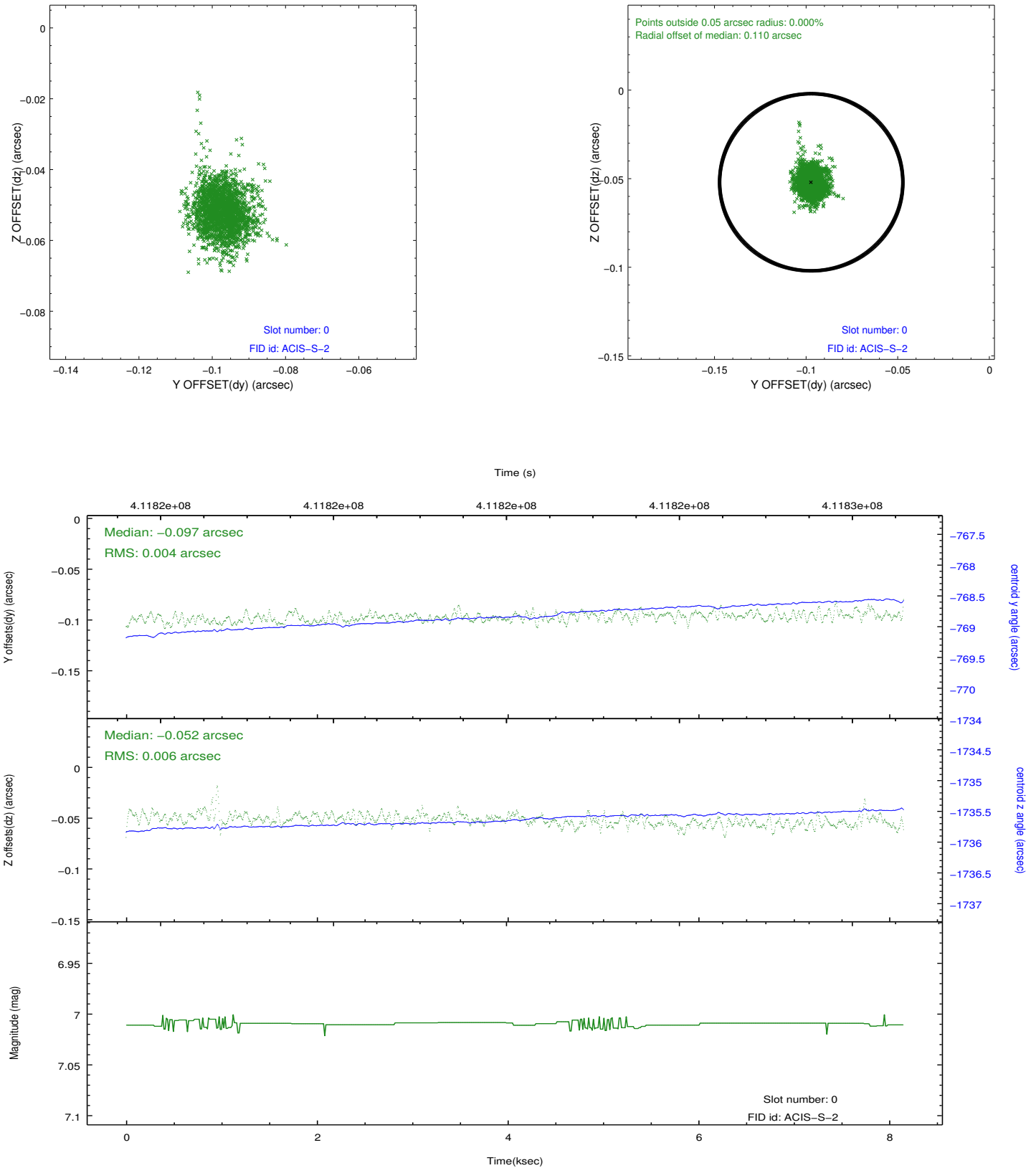


2.4.5 Slot 7

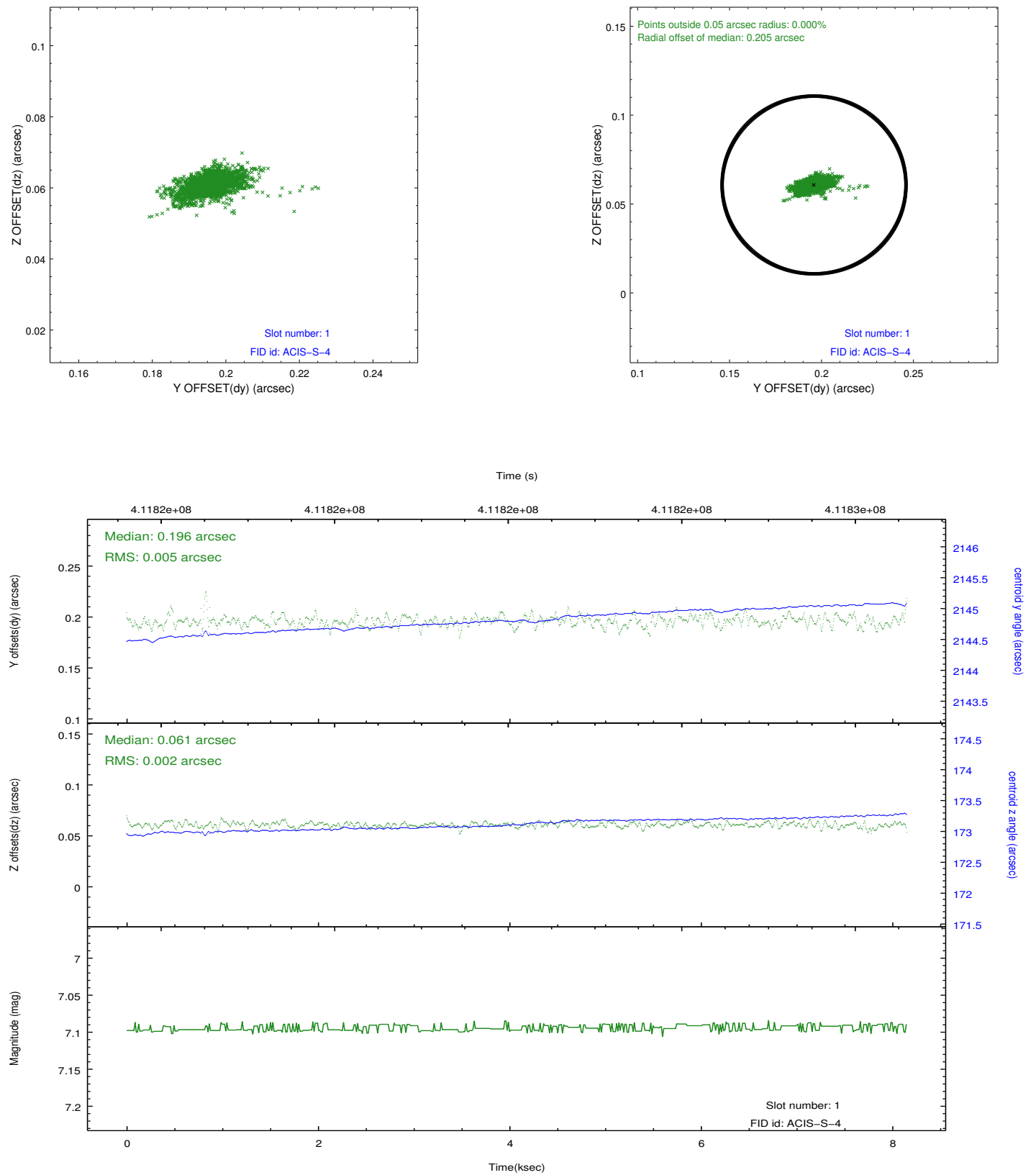


2.5 FID Slots

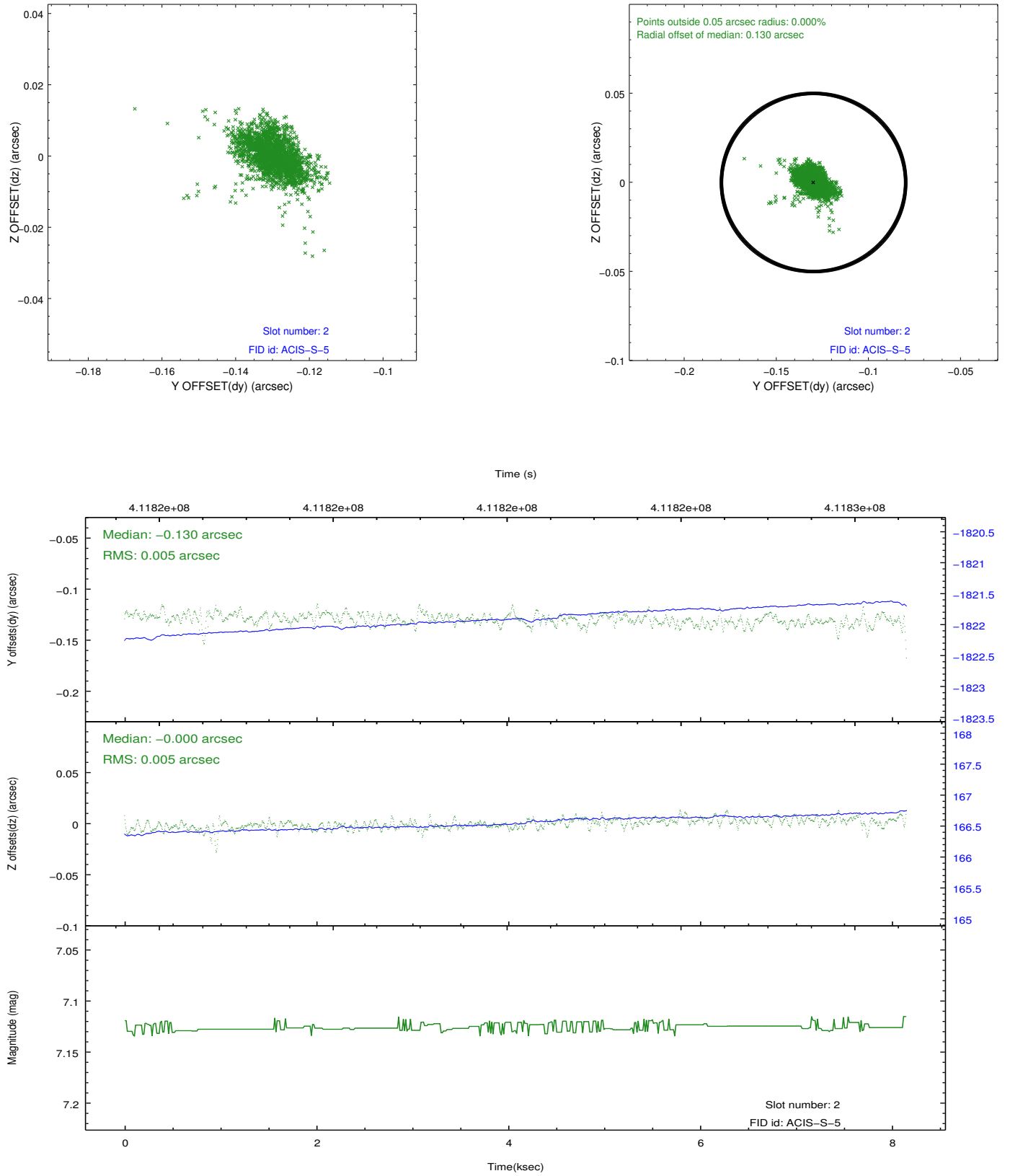
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.02.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0507000619173

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.