

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 1090 - L2 Version 3

Chandra X-Ray Center

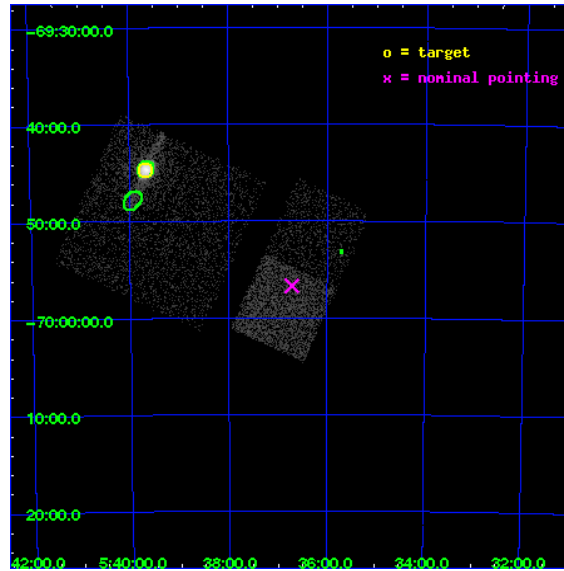
L2 Processing Date : Dec 17 2009

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1 Front

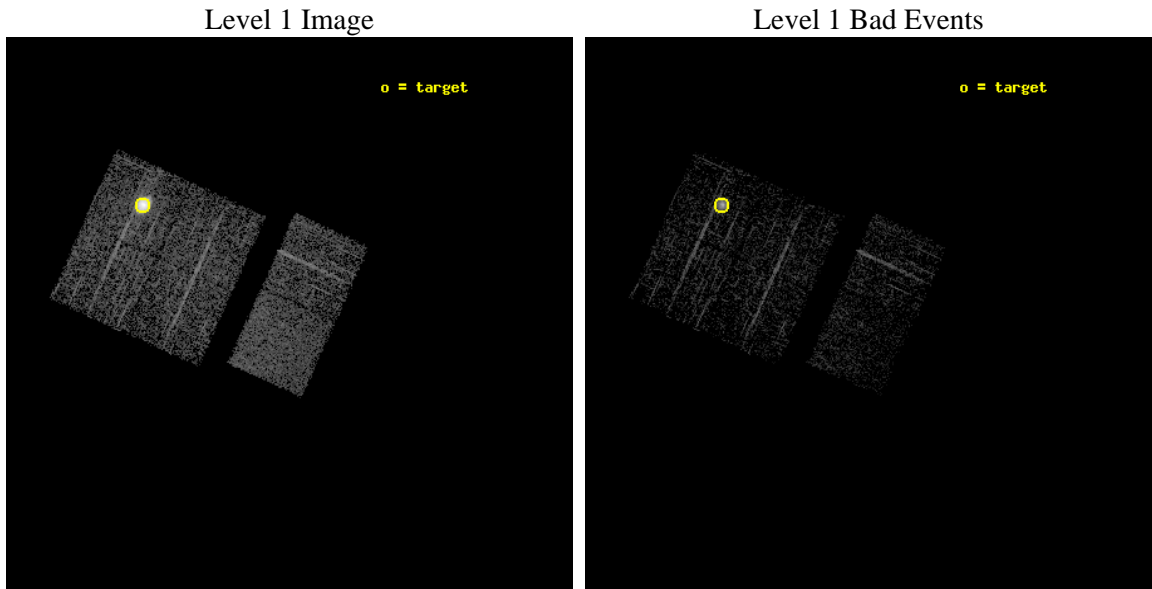
seq_num	480040	Sequence number
obs_id	1090	Observation id
title	 	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	LMC X-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	84.914583	Observer's specified target RA
dec_targ	-69.743611	Observer's specified target Dec
ra_nom	84.178455861512	Nominal RA
dec_nom	-69.945346803844	Nominal Dec
roll_nom	114.33780667331	Nominal Roll
revision	3	Processing version of data
ontime	1033.6000009626	Sum of GTIs [s]
livetime	1020.5119353912	Livetime [s]
ontime0	1033.6000009626	Sum of GTIs [s]
ontime1	1033.6000009626	Sum of GTIs [s]
ontime2	1033.6000009626	Sum of GTIs [s]
ontime3	1033.6000009626	Sum of GTIs [s]
ontime6	1033.6000009626	Sum of GTIs [s]
ontime7	1033.6000009626	Sum of GTIs [s]
l2events	50460	Number of level 2 events



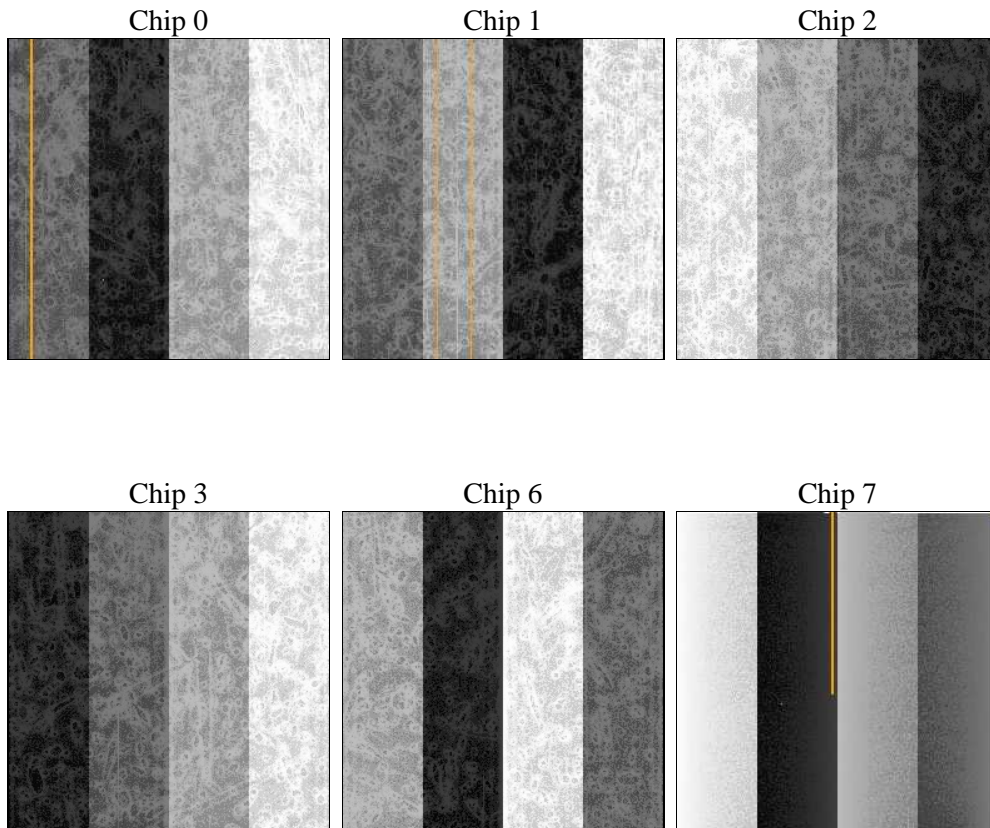
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	1033.6000009626	Sum of GTIs [s]
caldbver	4.1.4	 	ontime0	1033.6000009626	Sum of GTIs [s]
date	2009-12-17T06:17:21	Date and time of file creation	ontime1	1033.6000009626	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	1033.6000009626	Sum of GTIs [s]
			ontime3	1033.6000009626	Sum of GTIs [s]
			ontime6	1033.6000009626	Sum of GTIs [s]
			ontime7	1033.6000009626	Sum of GTIs [s]
			l1events	102546	Number of level 1 events

2.1.4 Events

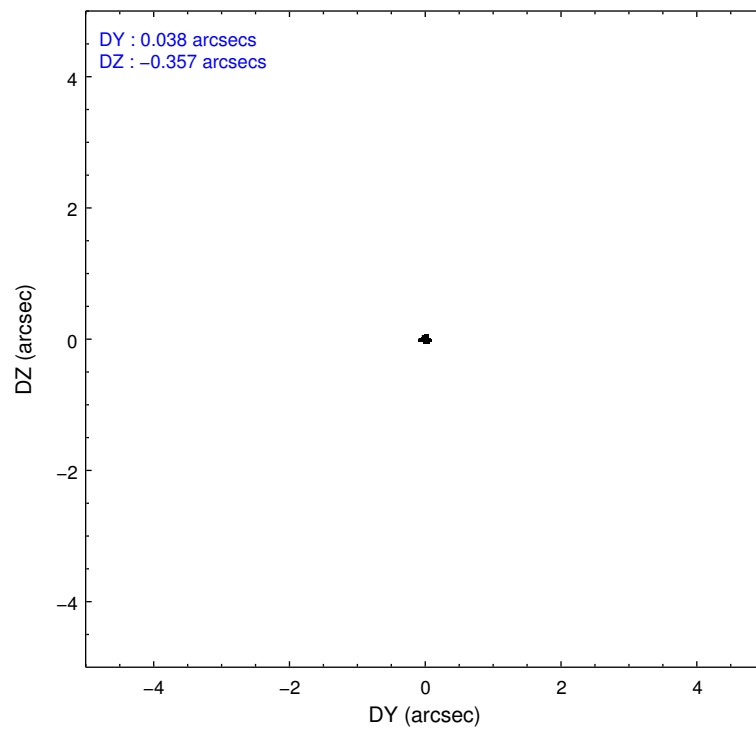
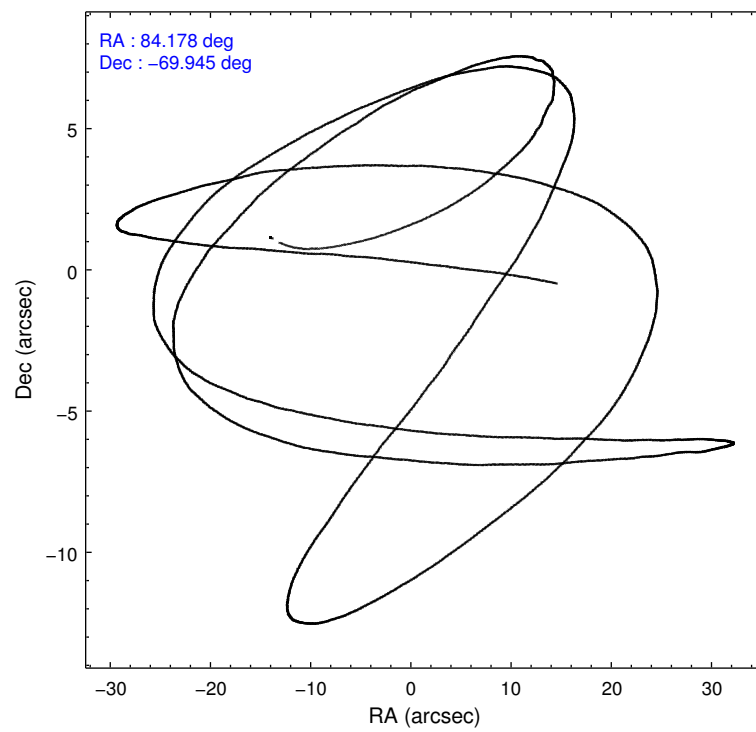
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	53387	10324	9555	8926	9781	10573
rejected events	10679	9197	8556	7945	8697	6324
rejected %	20%	89%	89%	89%	88%	59%

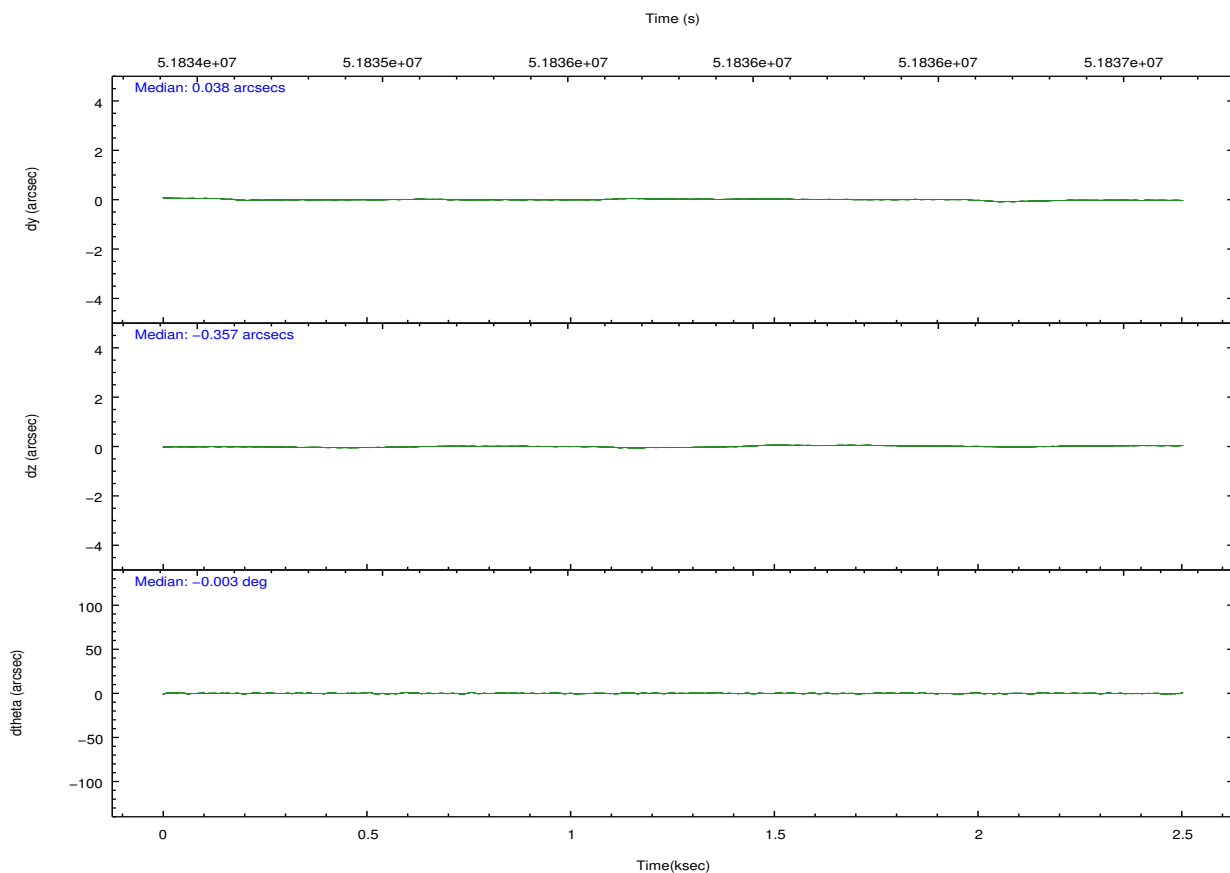
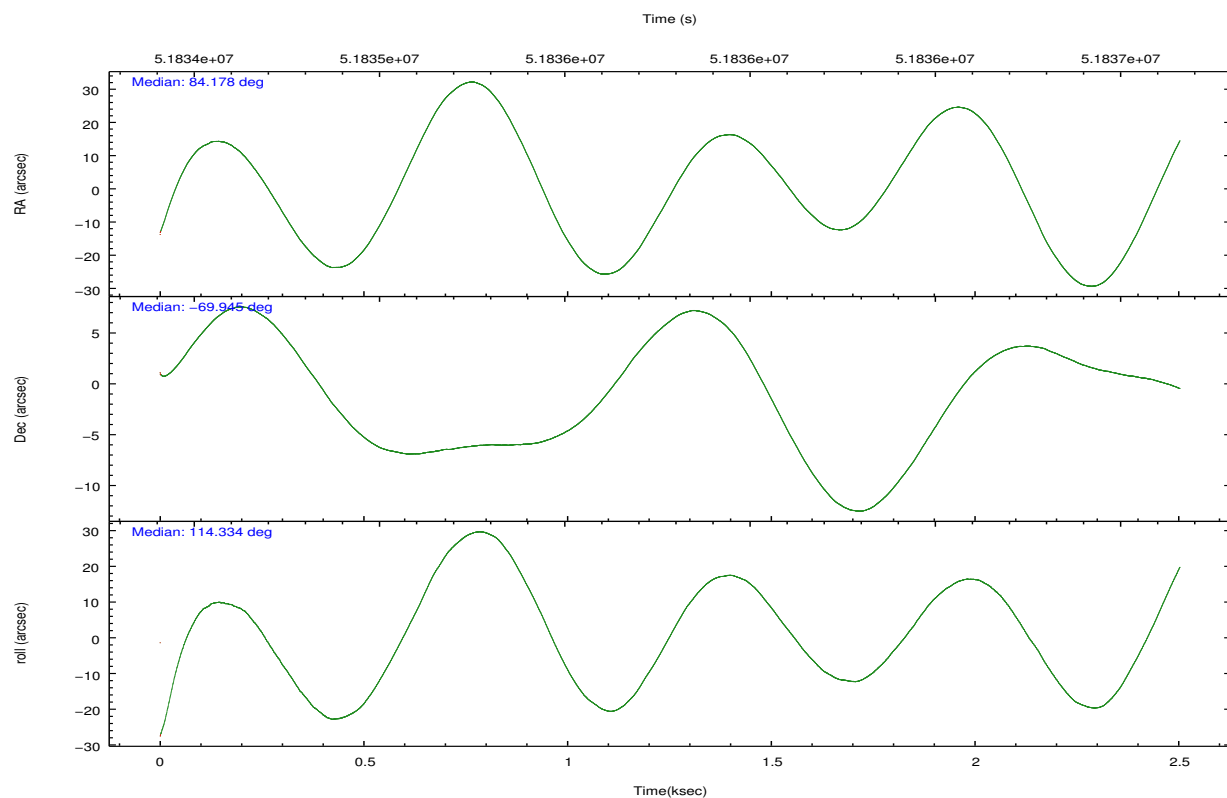
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	32945	516	478	437	455	327
	61%	4%	5%	4%	4%	3%
grade 1 events	895	5	5	5	4	10
	1%	0%	0%	0%	0%	0%
grade 2 events	5129	215	194	205	253	673
	9%	2%	2%	2%	2%	6%
grade 3 events	1746	105	98	88	90	418
	3%	1%	1%	0%	0%	3%
grade 4 events	1802	101	80	83	101	354
	3%	0%	0%	0%	1%	3%
grade 5 events	683	266	212	247	279	677
	1%	2%	2%	2%	2%	6%
grade 6 events	1353	193	158	176	188	2497
	2%	1%	1%	1%	1%	23%
grade 7 events	8834	8923	8330	7685	8411	5617
	16%	86%	87%	86%	85%	53%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	84.243593	84.17845586151226	Subarray requested	NONE	NONE
Pointing Dec	-69.962089	-69.9453468038439	Alternating exposures requested	N	N
Pointing Roll	114.242433	114.3378066733136	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.865731118321573			
SIM defocus (mm)	0	-0.1814636570216768			
SIM translation stage pos (mm)	-190.132523	-190.1199515274594			
SIM translation stage offset (mm)	0	-0.012571055548392			
Observation start time	51835035.184000	51834039.974763			
Observation start date	1999-08-23T22:36:11	1999-08-23T22:20:39			
Observation end time	51837035.184000	51837161.612376			
Observation end date	1999-08-23T23:09:31	1999-08-23T23:12:41			
Read mode	TIMED	TIMED			

2.3 Aspect



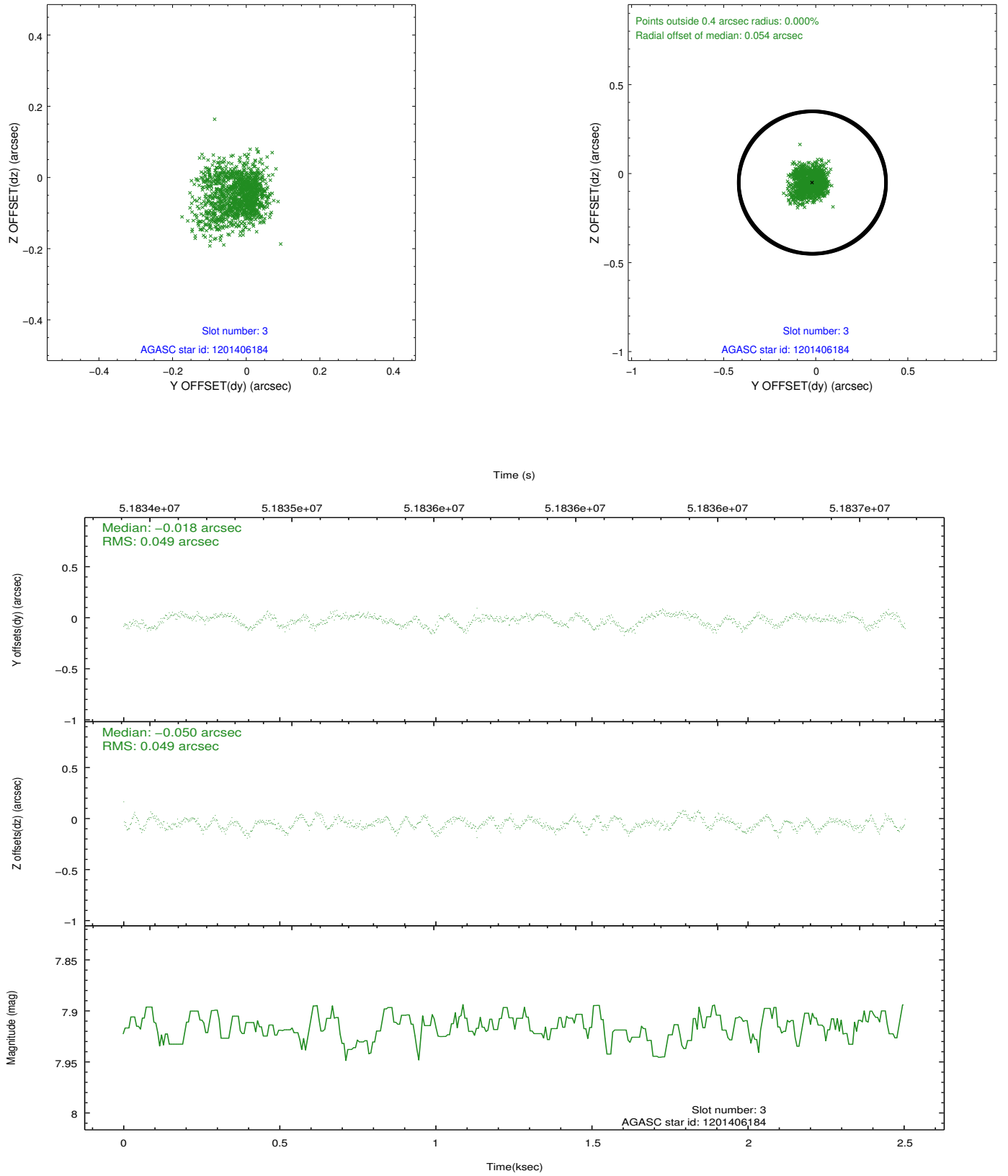


Slot Statistics

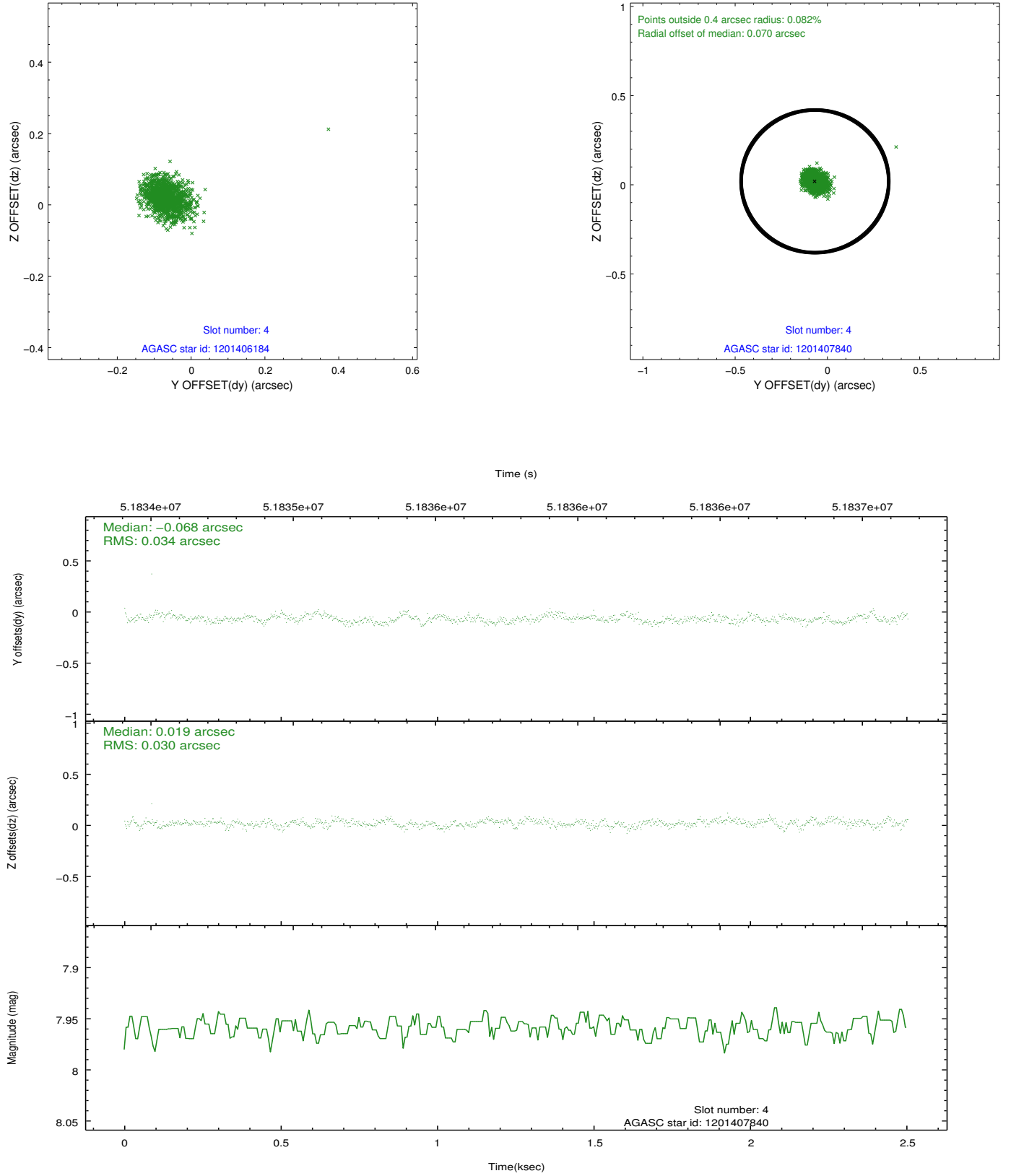
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	1222	-0.030	-0.029	0.006	0.009	0.000000	0.000000	-752.65	-1721.00
1	FID	ACIS-S-4	7.22	1221	0.139	0.022	0.005	0.009	0.000000	0.000000	2160.24	186.18
2	FID	ACIS-S-5	7.25	1222	-0.141	0.016	0.006	0.010	0.000000	0.000000	-1803.98	181.32
3	GUIDE	1201406184	7.92	1222	-0.018	-0.050	0.073	0.122	82.503234	-69.975517	808.21	1987.81
4	GUIDE	1201407840	7.96	1222	-0.068	0.019	0.046	0.074	83.696303	-70.172201	-417.93	922.24
5	GUIDE	1201406992	9.28	1220	0.147	0.035	0.076	0.124	83.682859	-69.471866	1896.23	-77.47
6	GUIDE	1201542312	9.74	1212	-0.073	0.027	0.100	0.168	86.031967	-70.422284	-2424.05	-1274.36
7	GUIDE	1201540776	9.59	1221	0.018	-0.032	0.082	0.134	85.107945	-69.858480	-109.09	-1128.61

2.4 Star Slots

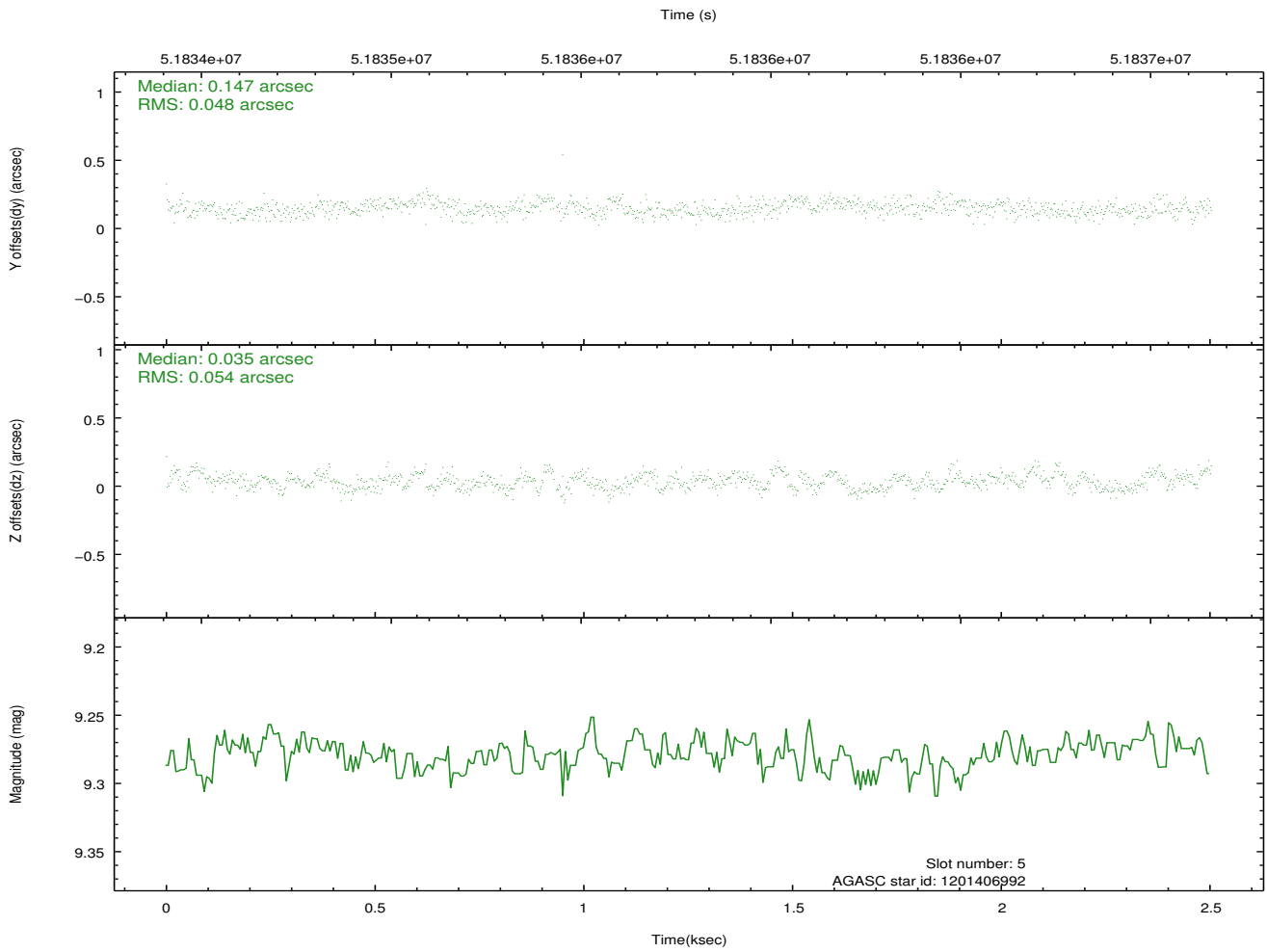
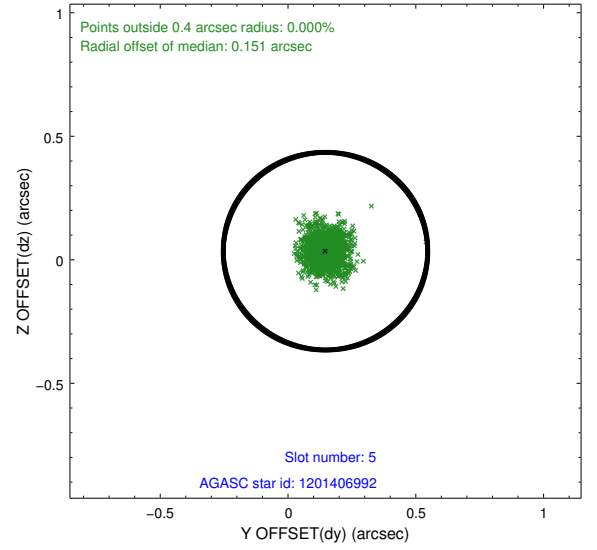
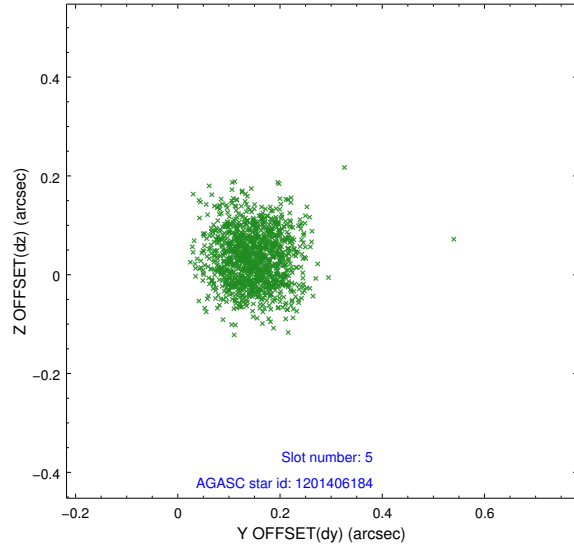
2.4.1 Slot 3



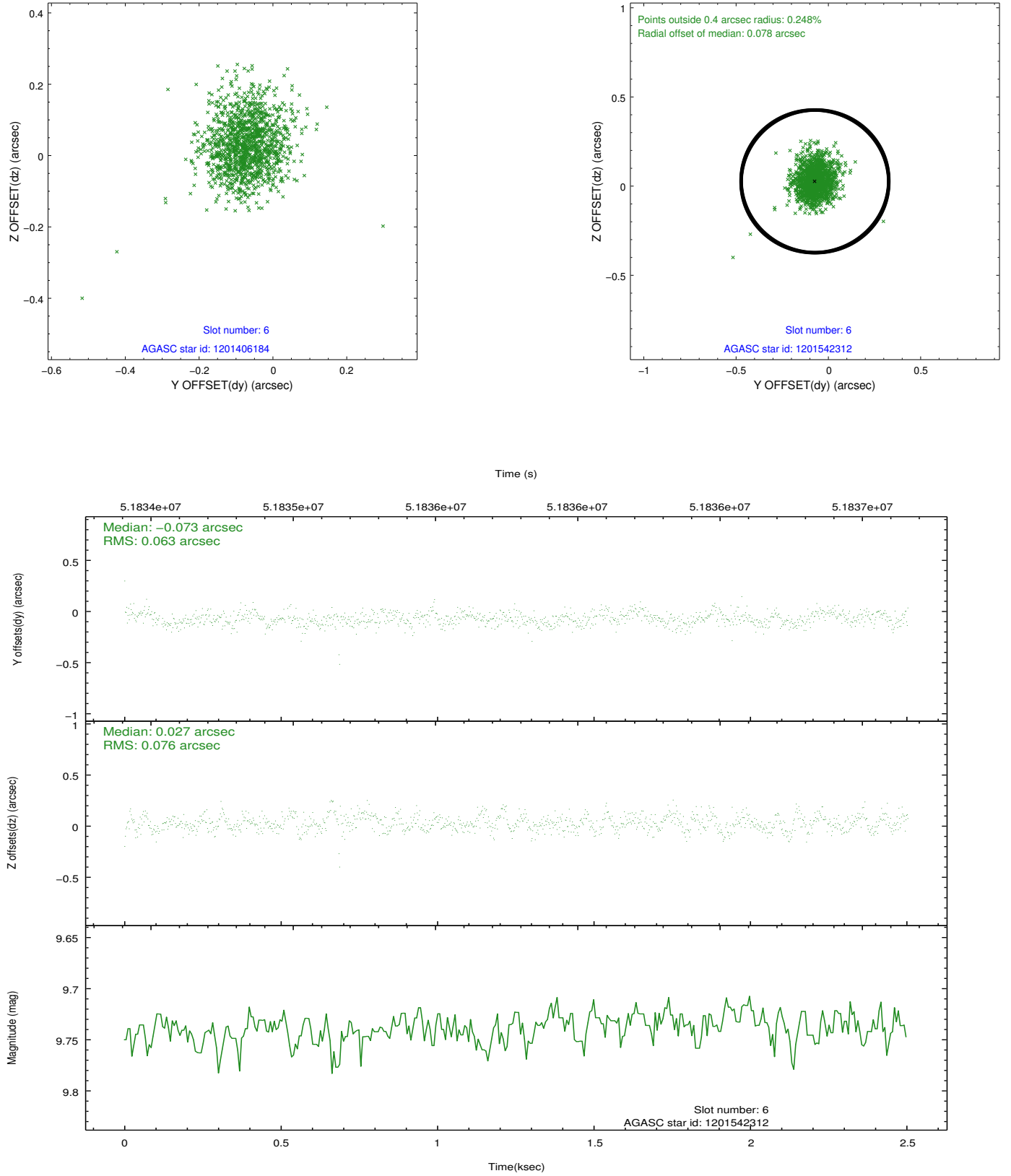
2.4.2 Slot 4



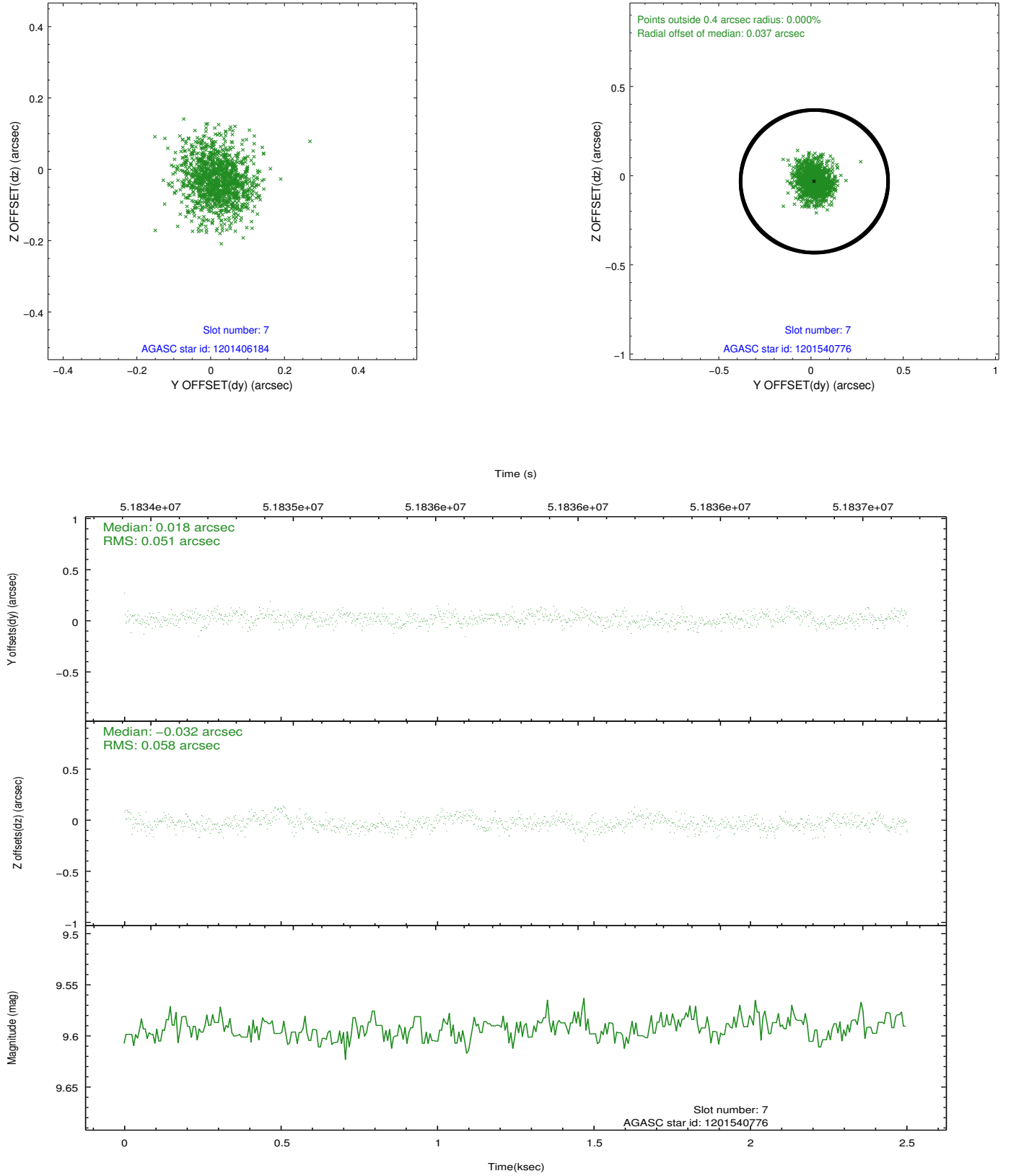
2.4.3 Slot 5



2.4.4 Slot 6

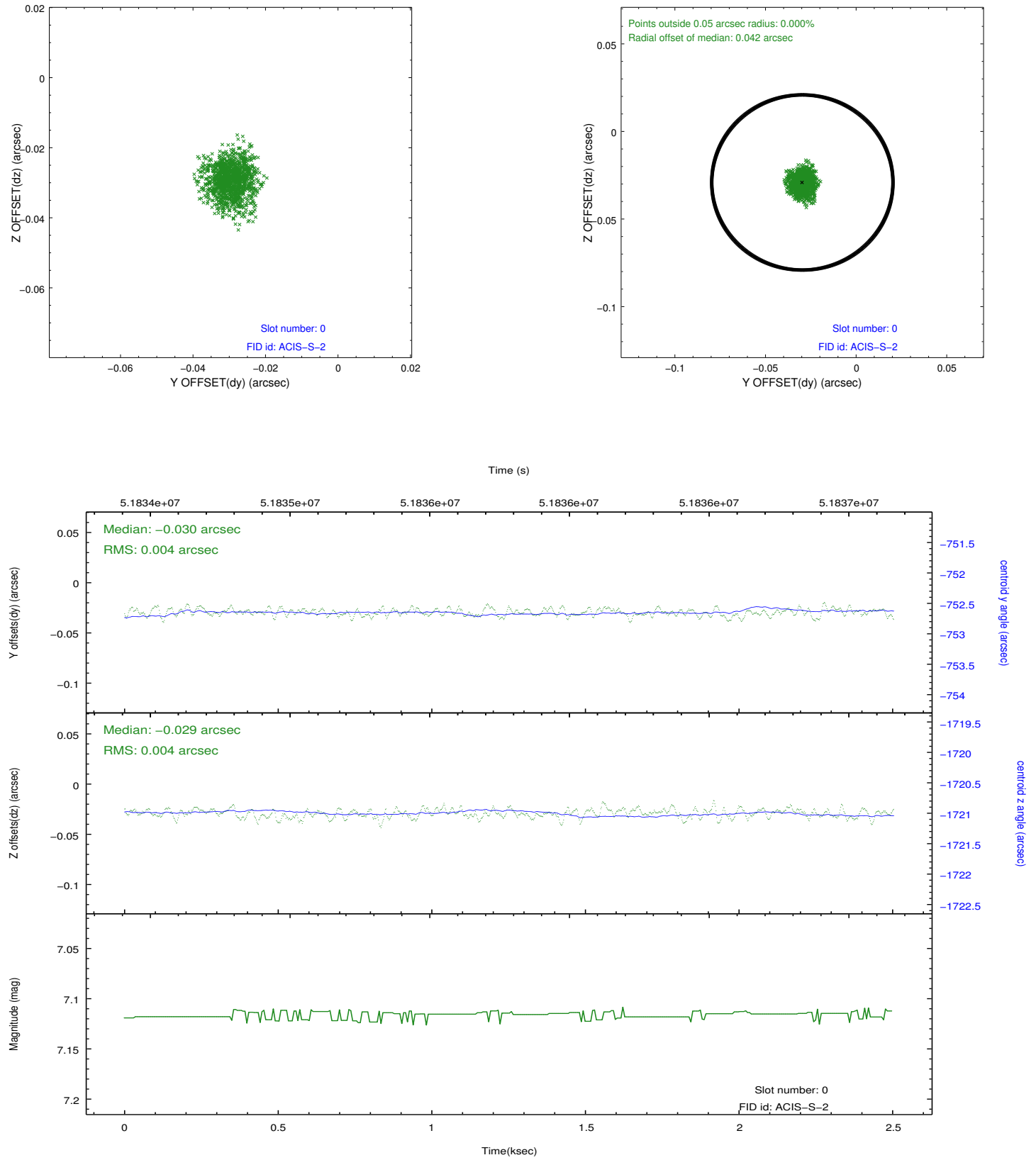


2.4.5 Slot 7

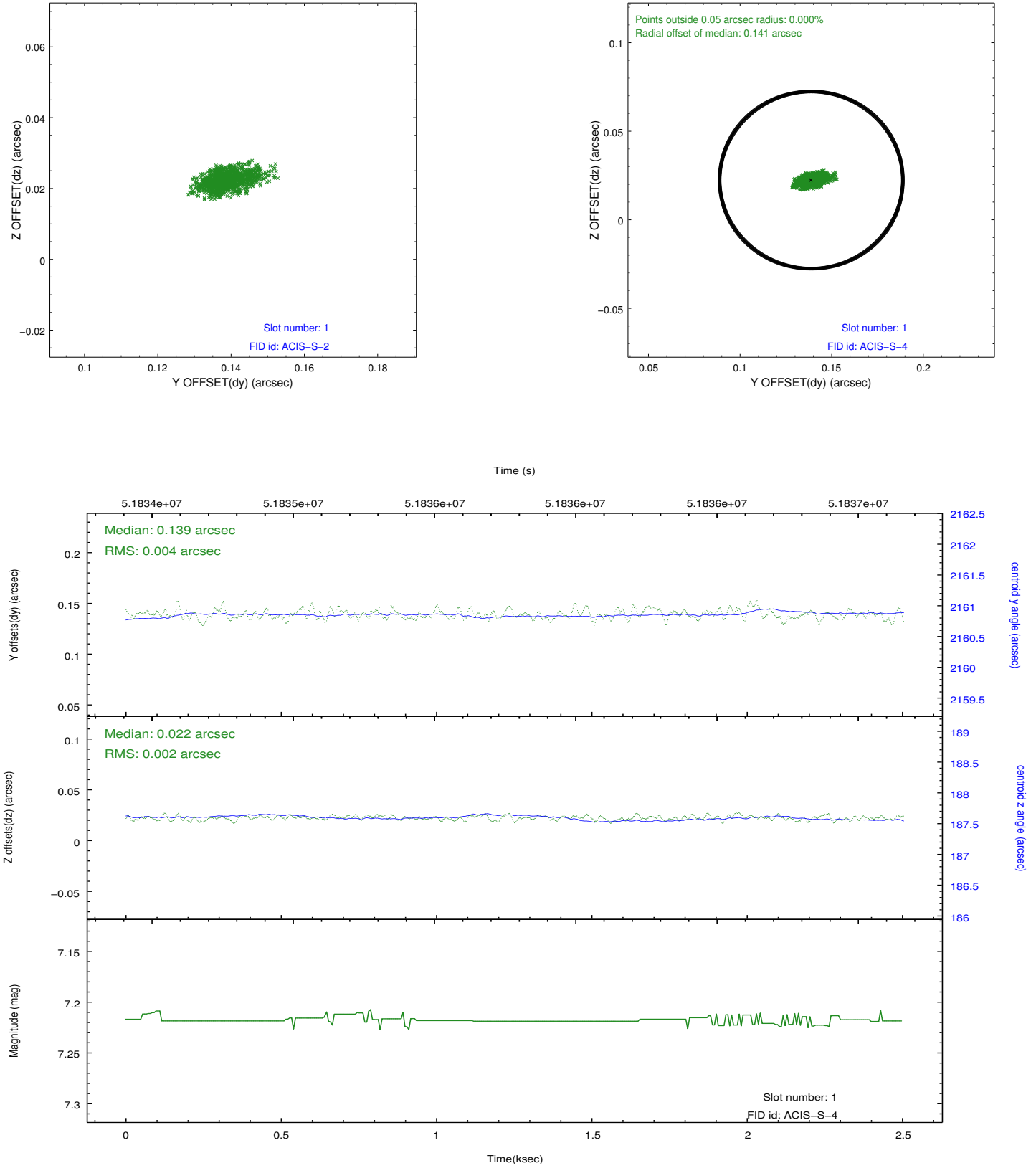


2.5 FID Slots

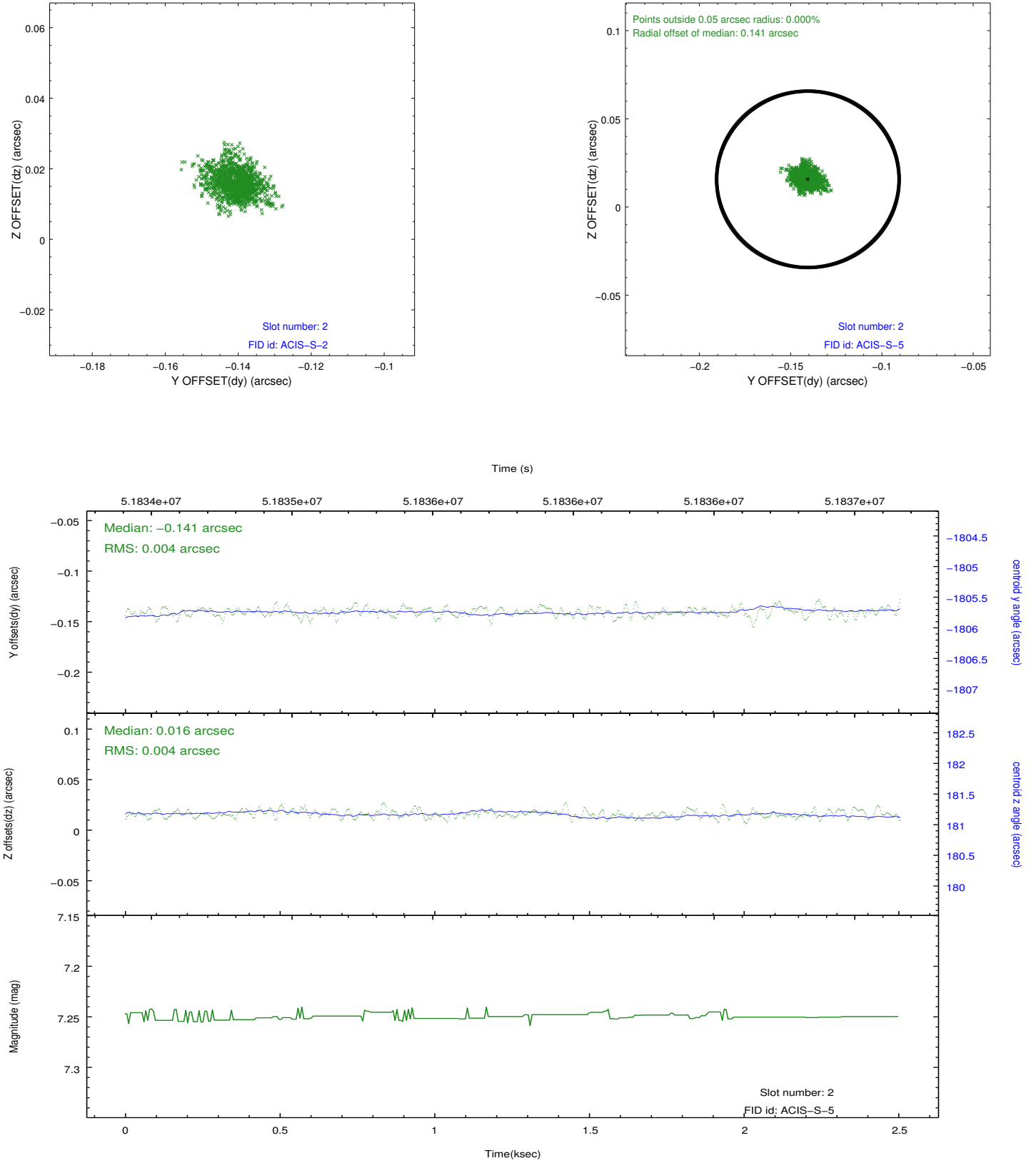
2.5.1 Slot 0



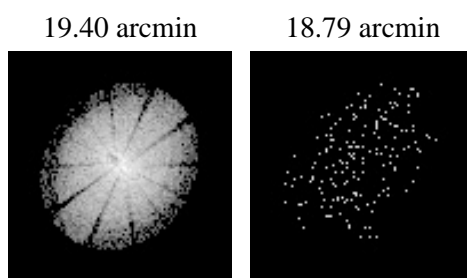
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.07.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.036

A.2 Comments

Target is very off-axis on I0.

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Charge time for this ObsId remains at previous value of 1.036 ksec, although with the current processing the charge time would have been 1.033 ksec.

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The focal plane temperature is approximately -100 C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.