

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 345 - L2 Version 4

Chandra X-Ray Center

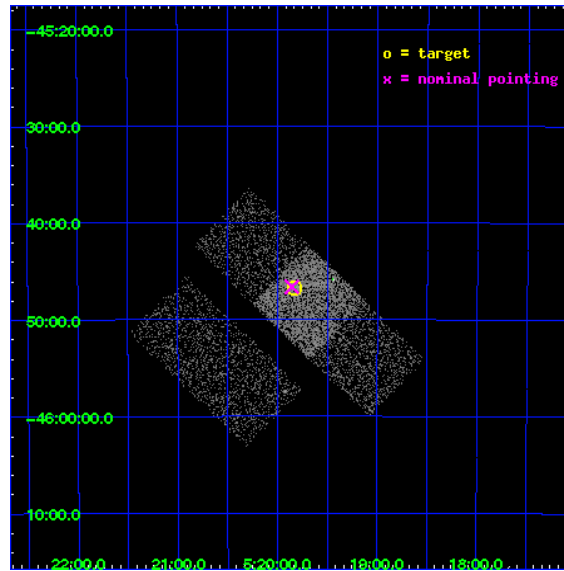
L2 Processing Date : Nov 21 2009

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1 Front

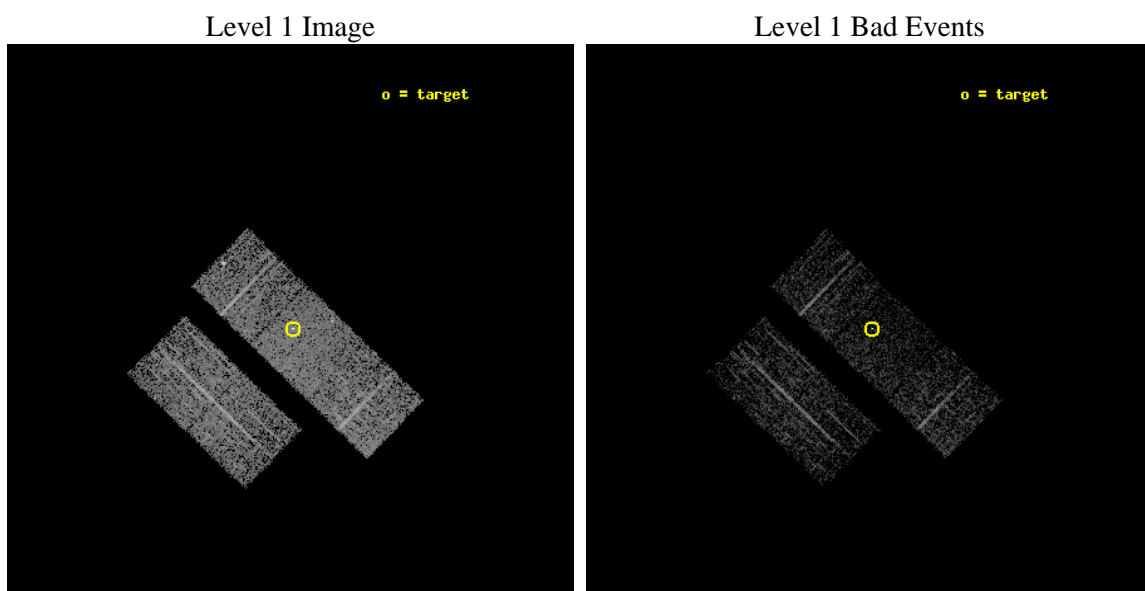
seq_num	700017	Sequence number
obs_id	345	Observation id
title	STUDIES OF RADIO JETS AND THE NARROW LINE REGIONS	Proposal title
observer	Professor Andrew Wilson	Principal investigator
object	PICTOR A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	79.957083	Observer's specified target RA
dec_targ	-45.779167	Observer's specified target Dec
ra_nom	79.963895831501	Nominal RA
dec_nom	-45.777244163874	Nominal Dec
roll_nom	44.103668710527	Nominal Roll
revision	4	Processing version of data
ontime	1361.9112103358	Sum of GTIs [s]
liveltime	1344.665870546	Livetime [s]
ontime2	1361.8701703325	Sum of GTIs [s]
ontime3	1361.7880903333	Sum of GTIs [s]
ontime6	1361.8291303366	Sum of GTIs [s]
ontime7	1361.9112103358	Sum of GTIs [s]
ontime8	1361.7470503375	Sum of GTIs [s]
l2events	10257	Number of level 2 events



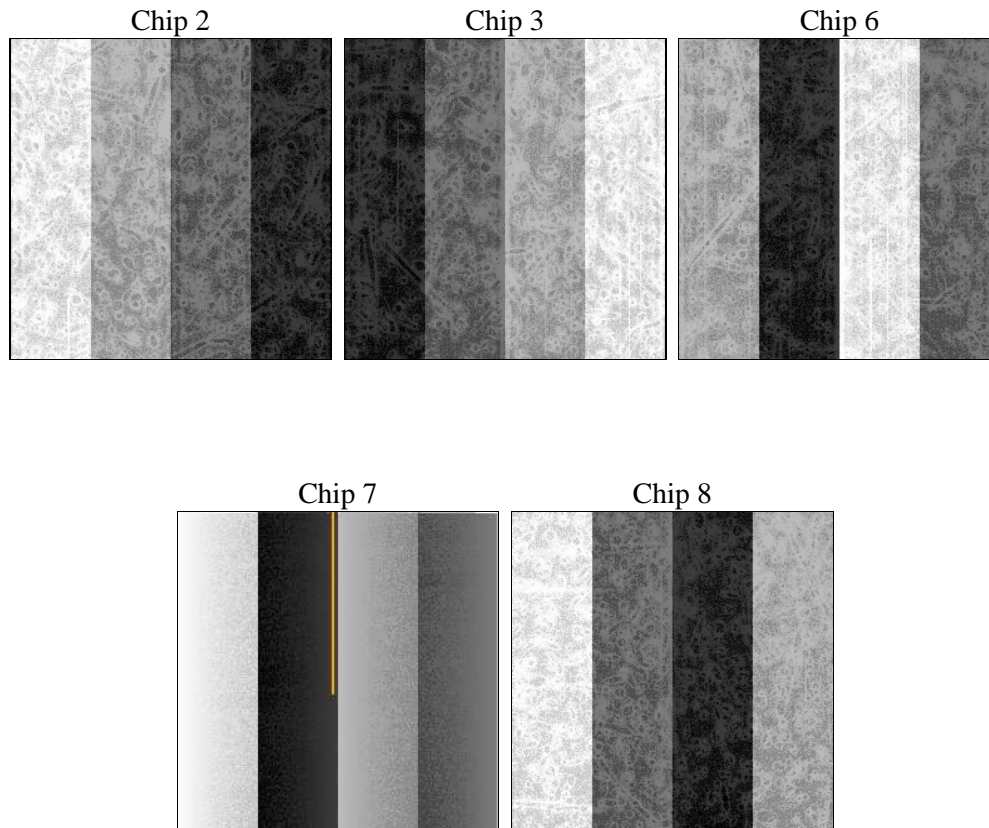
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2200.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	1361.9112103358	Sum of GTIs [s]
caldsver	4.1.4	 	ontime2	1361.8701703325	Sum of GTIs [s]
date	2009-11-21T09:20:27	Date and time of file creation	ontime3	1361.7880903333	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	1361.8291303366	Sum of GTIs [s]
			ontime7	1361.9112103358	Sum of GTIs [s]
			ontime8	1361.7470503375	Sum of GTIs [s]
			l1events	66765	Number of level 1 events

2.1.4 Events

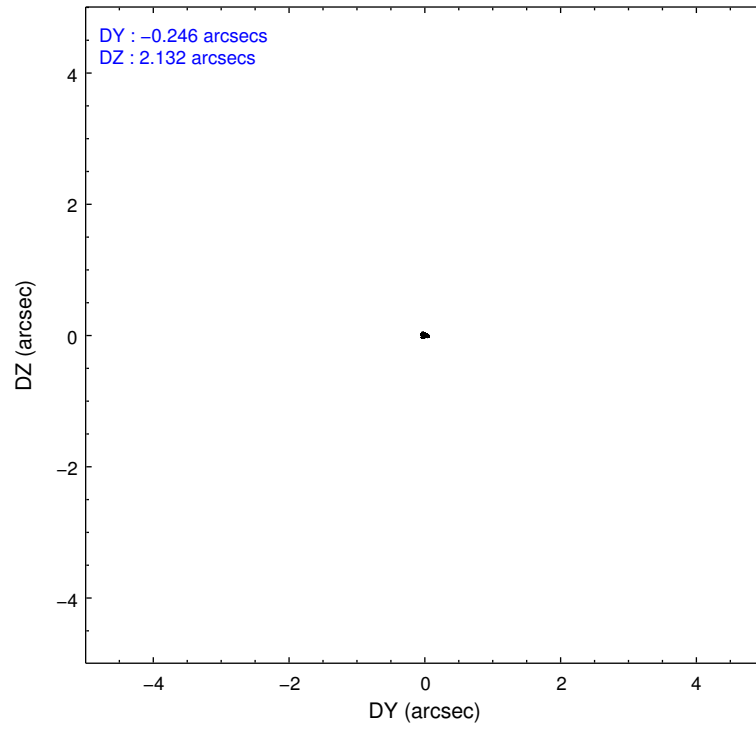
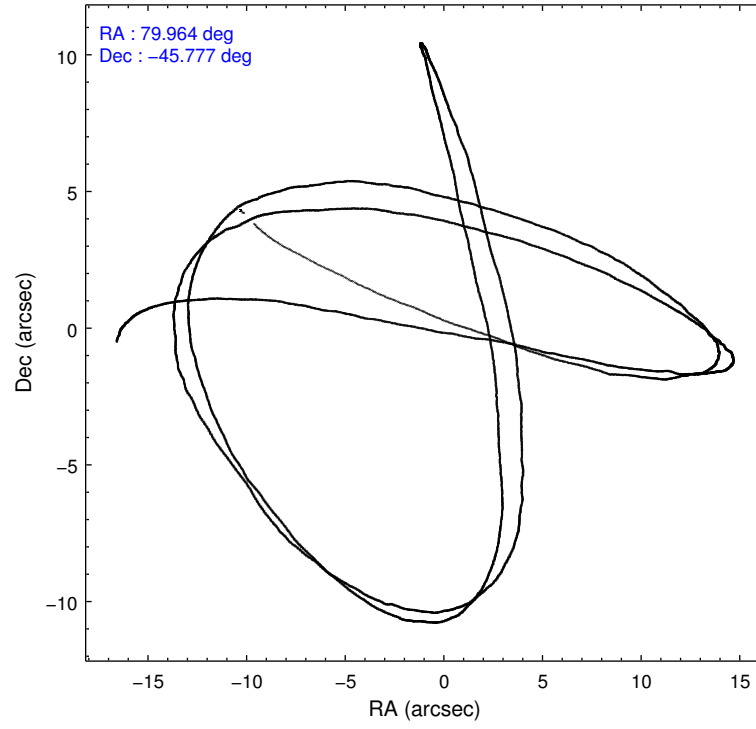
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	13115	12201	12372	14202	14875
rejected events	12070	11035	10827	8271	12497
rejected %	92%	90%	87%	58%	84%

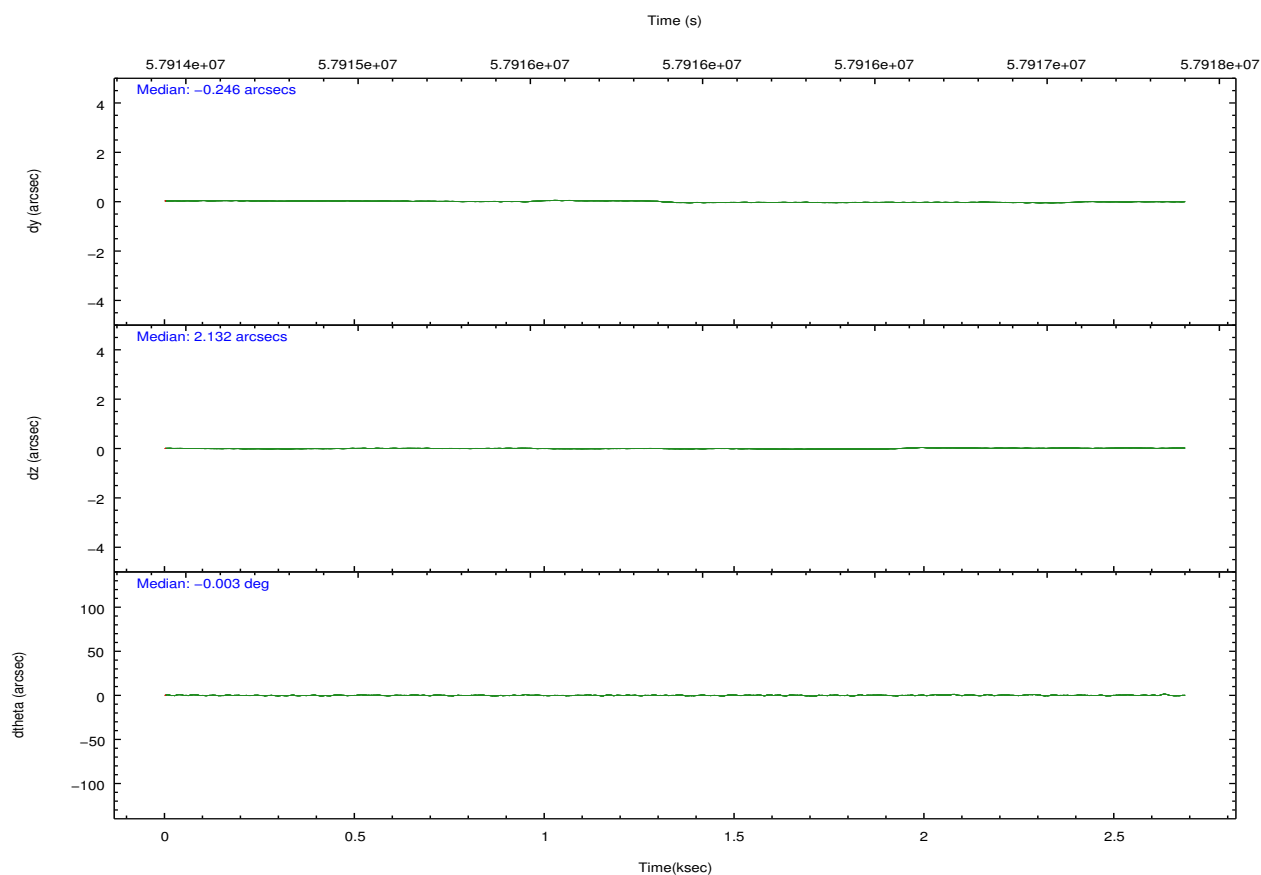
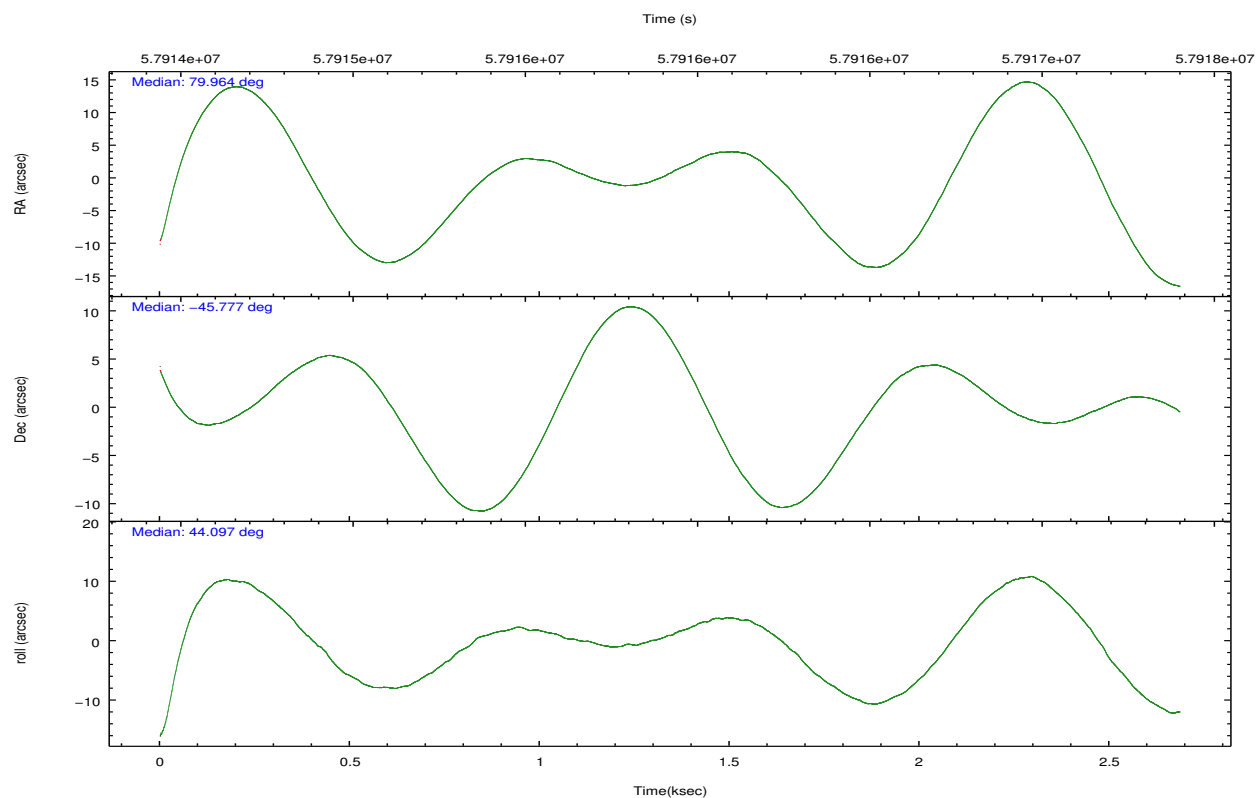
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	235	281	270	591	520
	1%	2%	2%	4%	3%
grade 1 events	2	2	2	13	5
	0%	0%	0%	0%	0%
grade 2 events	415	442	788	1285	778
	3%	3%	6%	9%	5%
grade 3 events	64	67	81	405	227
	0%	0%	0%	2%	1%
grade 4 events	86	77	80	388	181
	0%	0%	0%	2%	1%
grade 5 events	251	246	222	847	368
	1%	2%	1%	5%	2%
grade 6 events	252	307	333	3288	683
	1%	2%	2%	23%	4%
grade 7 events	11810	10779	10596	7385	12113
	90%	88%	85%	51%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-23678	ACIS-23678	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	79.952717	79.96389583150118	Subarray requested	NONE	NONE
Pointing Dec	-45.803868	-45.77724416387441	Alternating exposures requested	N	N
Pointing Roll	43.939063	44.10366871052738	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	57915064.184000	57913863.061326			
Observation start date	1999-11-02T07:30:00	1999-11-02T07:11:03			
Observation end time	57917264.184000	57917777.023967			
Observation end date	1999-11-02T08:06:40	1999-11-02T08:16:17			
Read mode	TIMED	TIMED			

2.3 Aspect



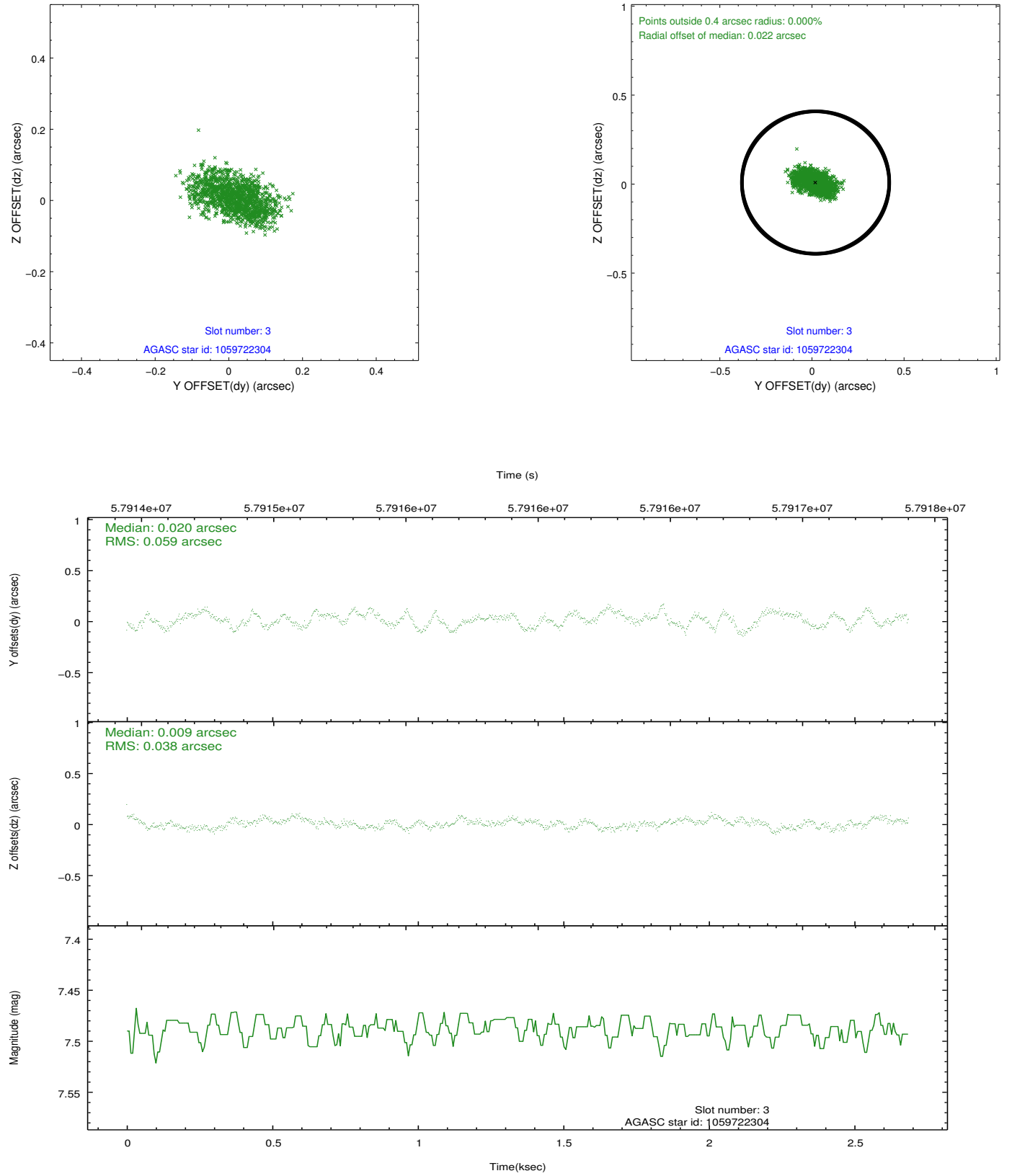


Slot Statistics

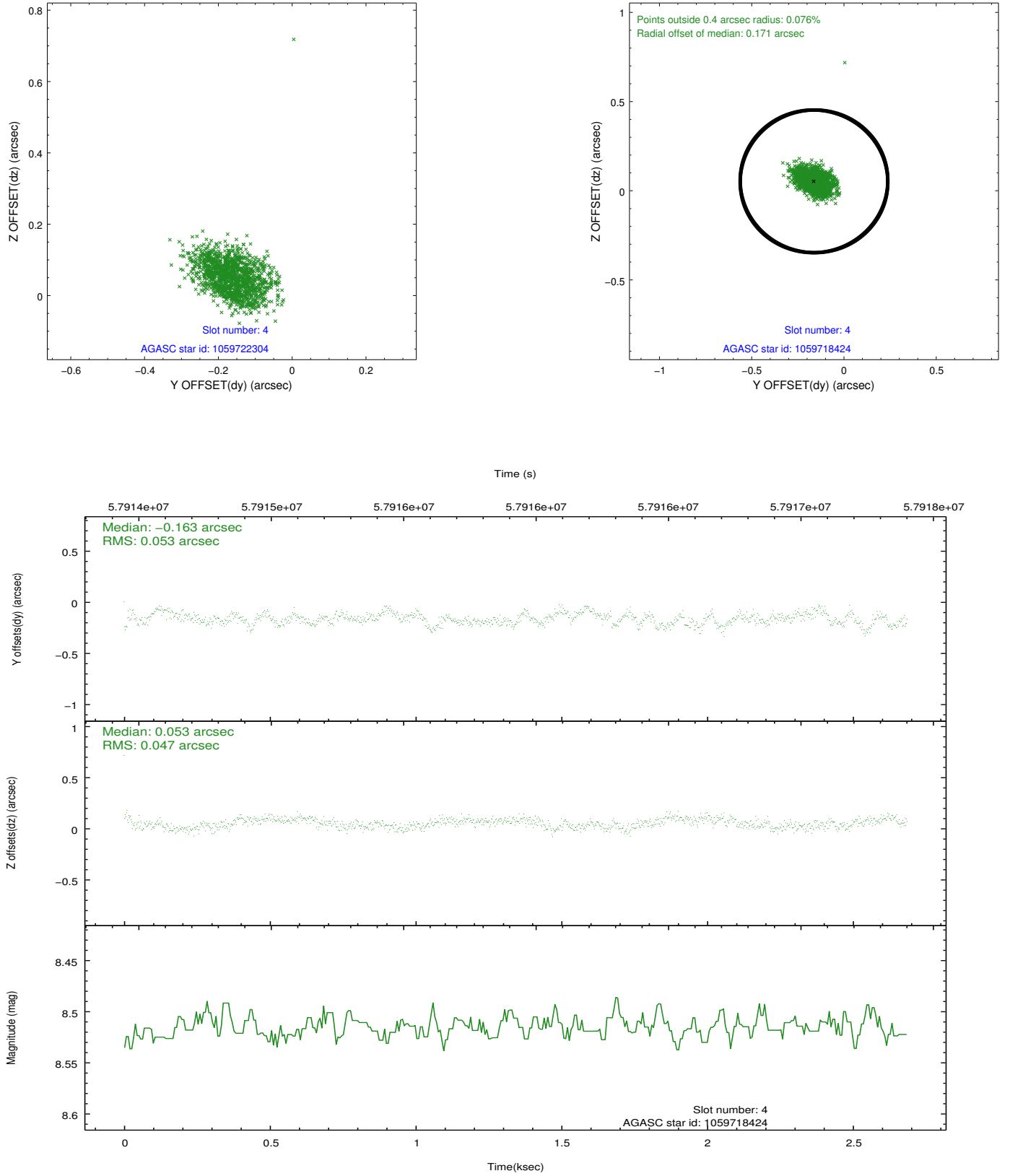
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.36	1311	-0.017	-0.070	0.007	0.011	0.000000	0.000000	60.83	-1852.30
1	FID	ACIS-S-4	7.21	1311	0.067	0.043	0.006	0.010	0.000000	0.000000	2161.16	184.06
2	FID	ACIS-S-5	7.24	1311	-0.077	0.036	0.006	0.011	0.000000	0.000000	-1803.77	179.20
3	GUIDE	1059722304	7.49	1311	0.020	0.009	0.077	0.121	79.157586	-45.913736	-1716.65	1090.16
4	GUIDE	1059718424	8.52	1311	-0.163	0.053	0.073	0.118	81.108521	-45.890614	1851.86	-2248.02
5	GUIDE	1059724224	9.24	1310	-0.062	-0.048	0.081	0.127	79.882936	-45.125709	1566.38	1879.78
6	GUIDE	1059722336	9.41	1309	0.049	-0.062	0.095	0.149	79.112656	-45.685912	-1234.47	1765.37
7	GUIDE	1059720912	8.95	1310	0.167	0.071	0.184	0.252	80.344072	-46.279067	-489.25	-1907.51

2.4 Star Slots

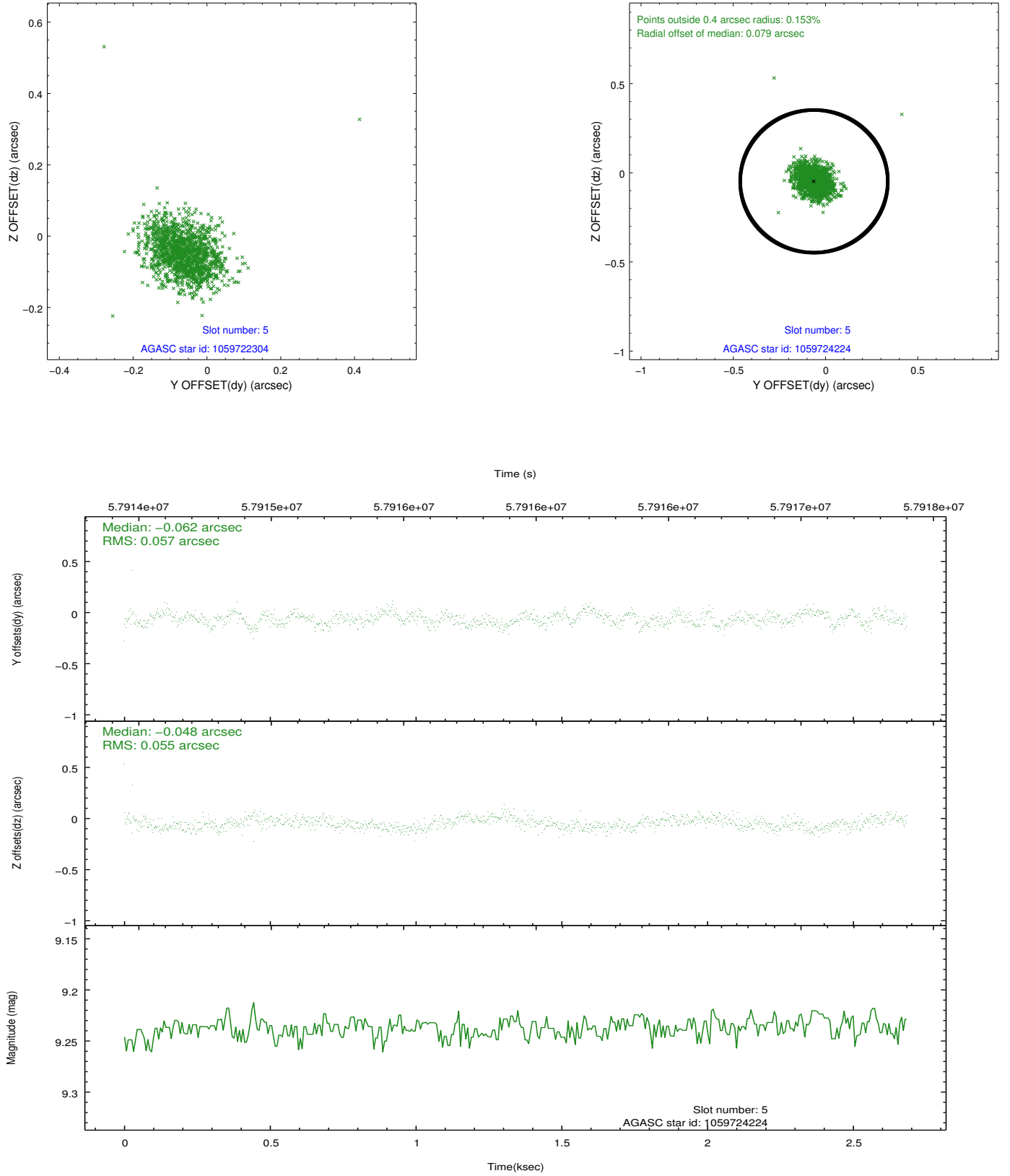
2.4.1 Slot 3



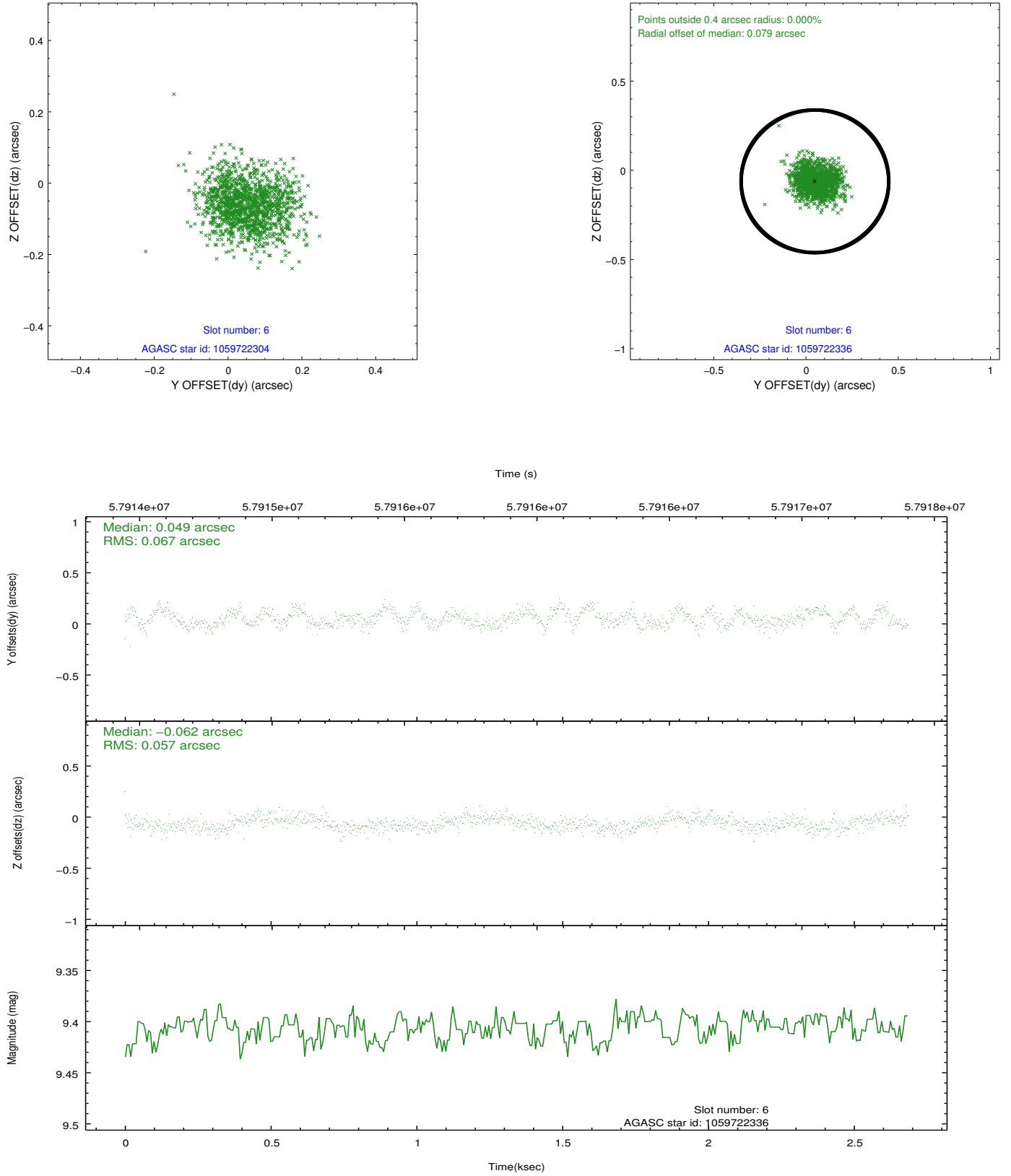
2.4.2 Slot 4



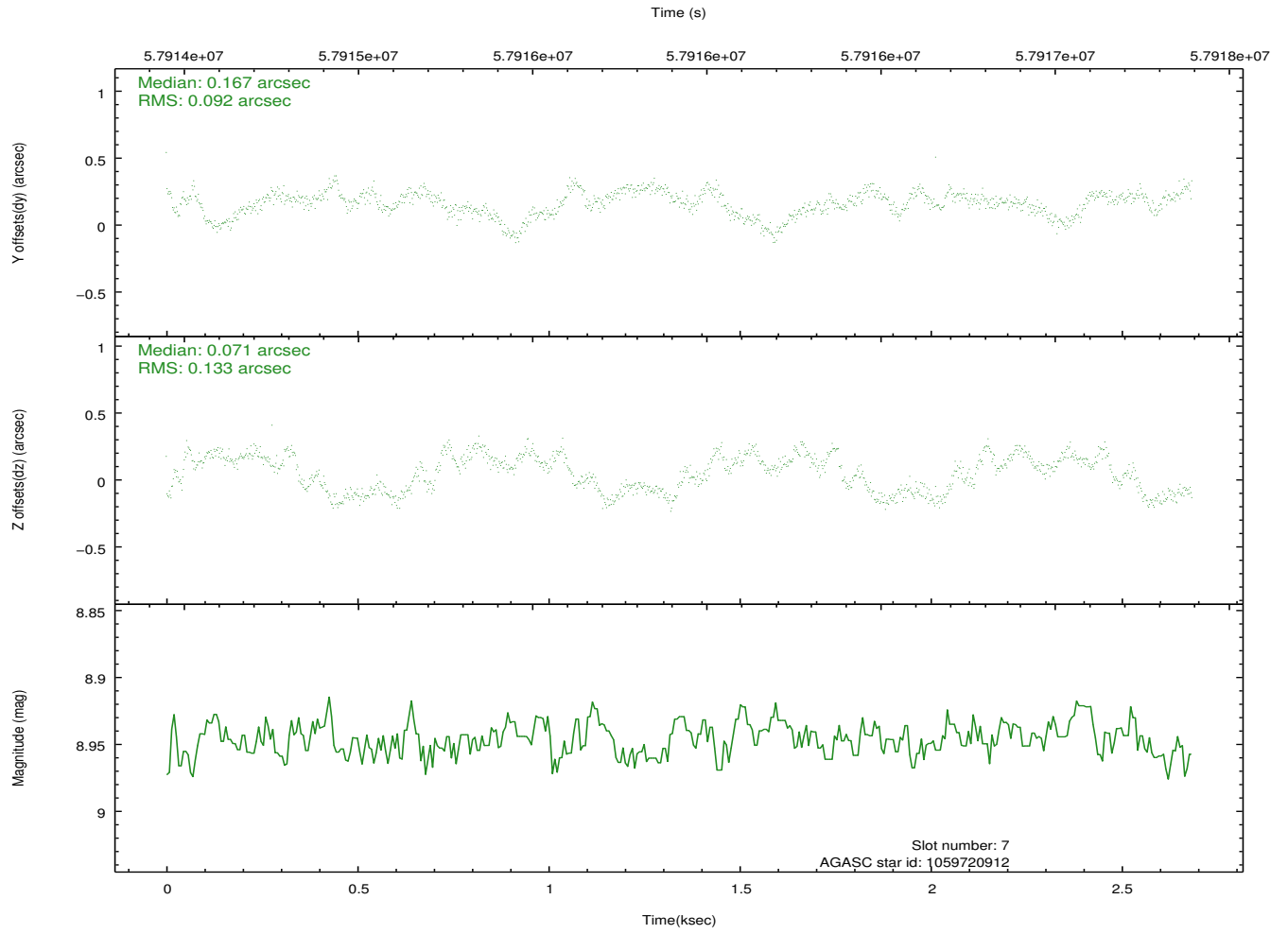
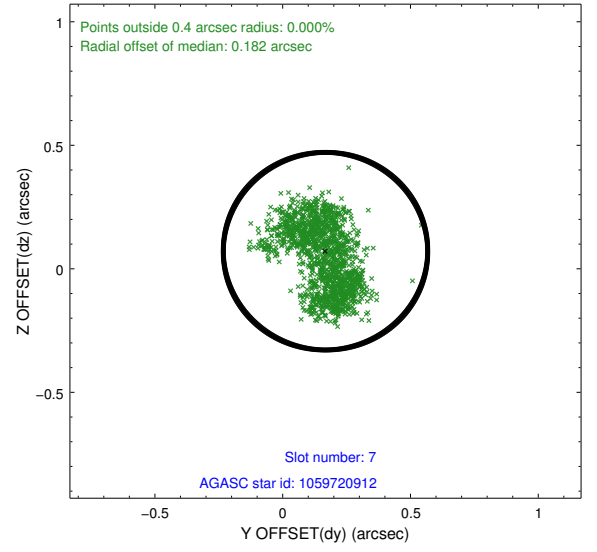
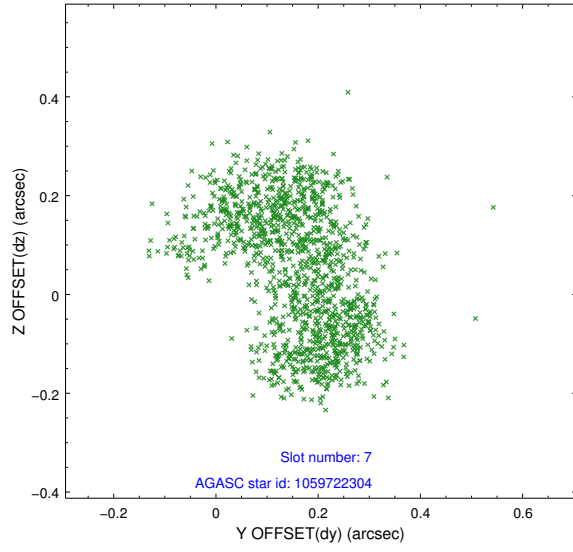
2.4.3 Slot 5



2.4.4 Slot 6

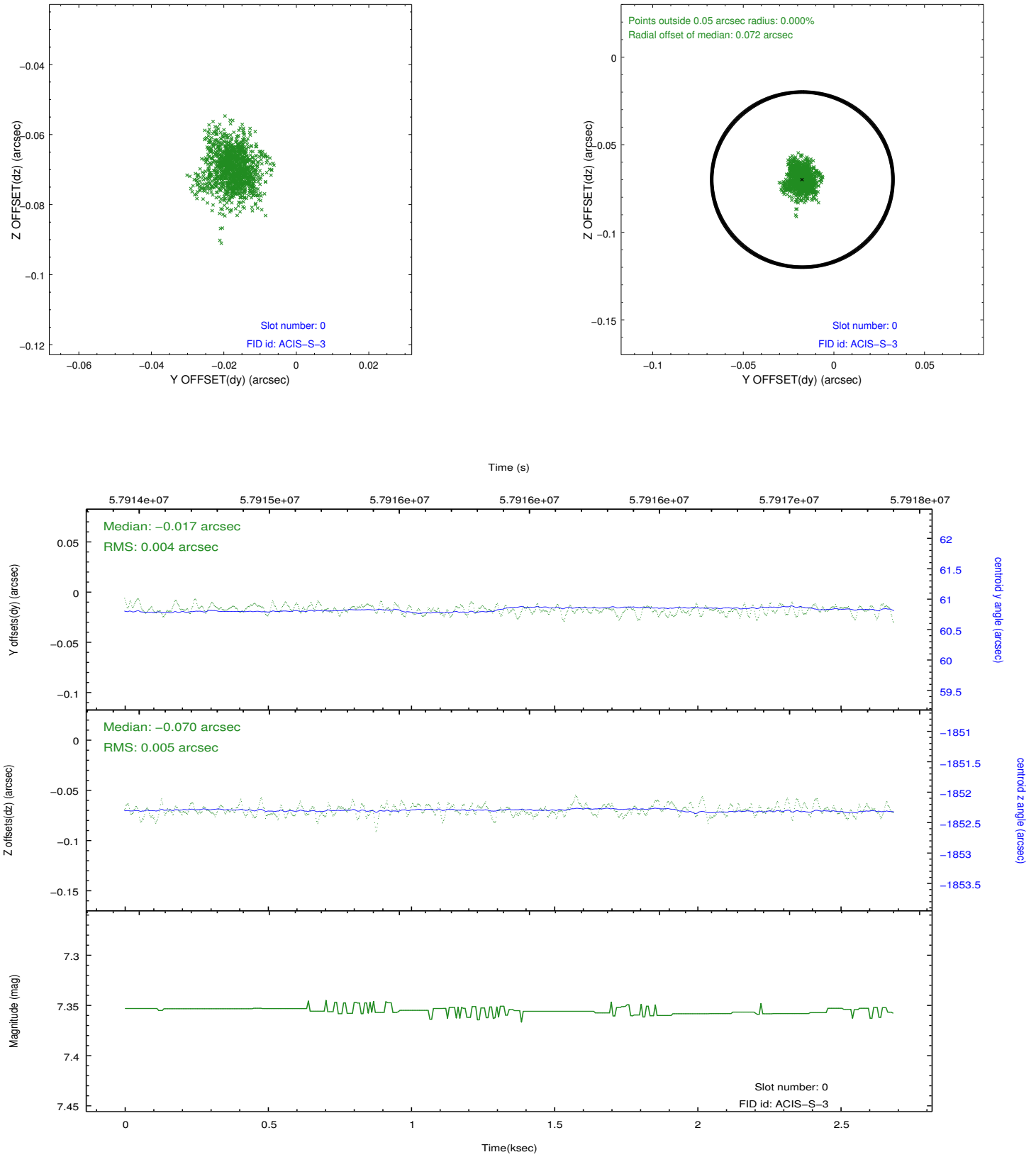


2.4.5 Slot 7

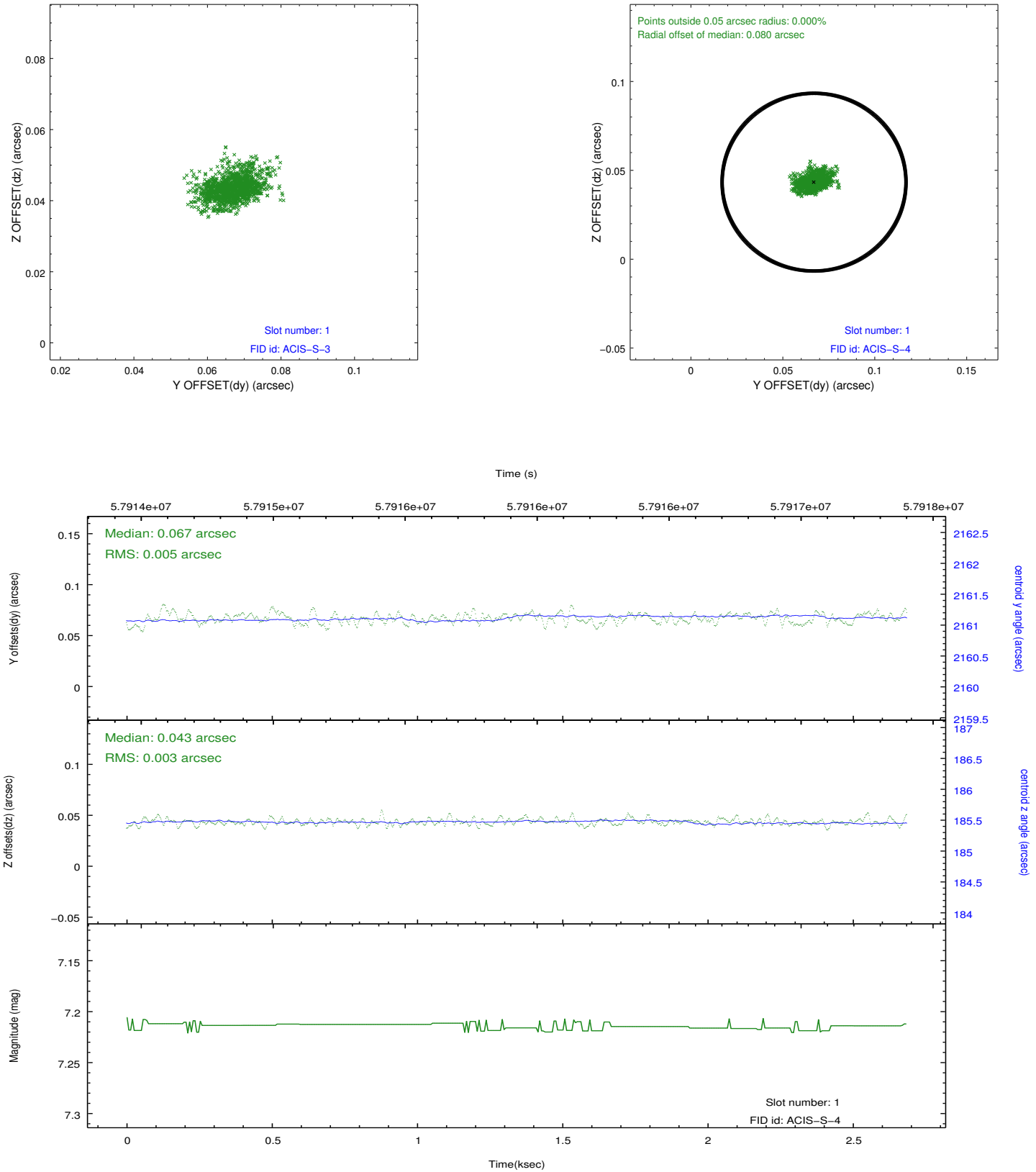


2.5 FID Slots

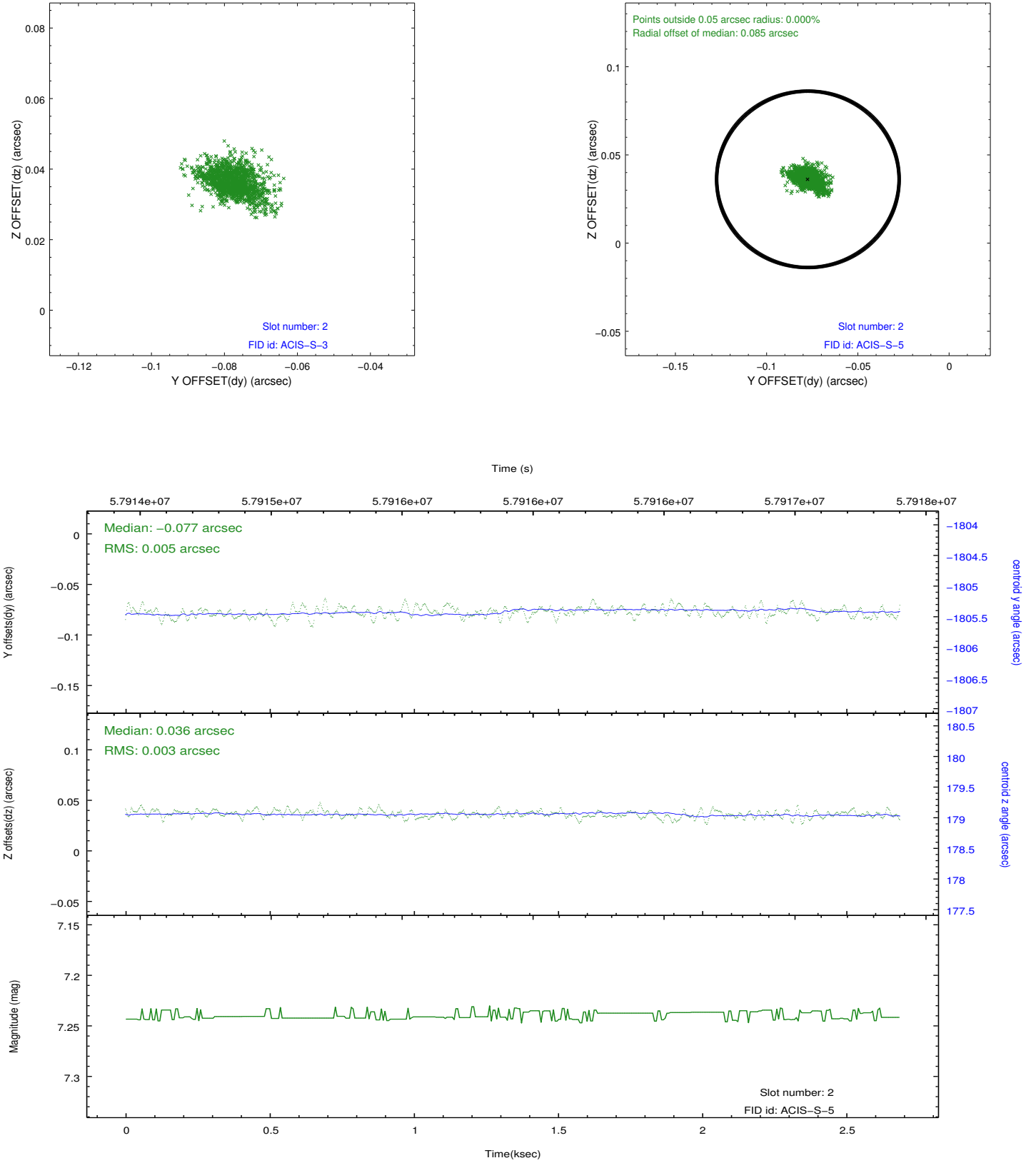
2.5.1 Slot 0



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)	2009.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.363

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the entire observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is warmer than -116.7 degrees C for approximately the entire observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. 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. This reprocessing of the data applies no CTI correction because none is available for that temperature.

=====OnTime is less than the time originally planned for this observation. All available events are included in this processing.

For some reason, ACIS did not start to collect events until about 20 minutes after the start science command.