

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7353 - L2 Version 2
Chandra X-Ray Center

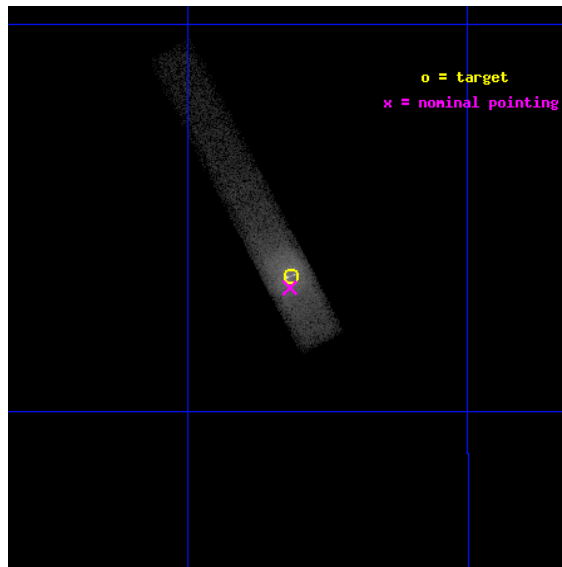
L2 Processing Date : Apr 26 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

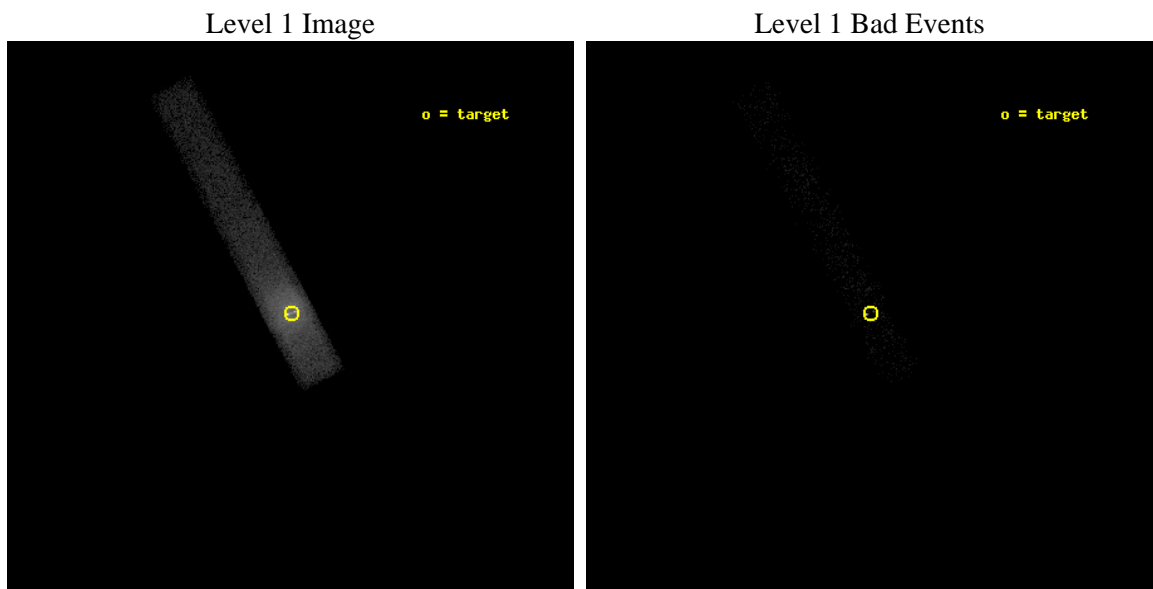
seq_num	701343	Sequence number
obs_id	7353	Observation id
title	HST/Chandra Monitoring of a Dramatic Flare in the M87 Jet	Proposal
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.70452900835	Nominal RA [deg]
dec_nom	12.386671361416	Nominal Dec [deg]
roll_nom	242.15653588914	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5009.5633131266	Sum of GTIs [s]
livetime	4543.409498573	Livetime [s]
ontime7	5009.5633131266	Sum of GTIs [s]
l2events	54955	Number of level 2 events



2 OBI

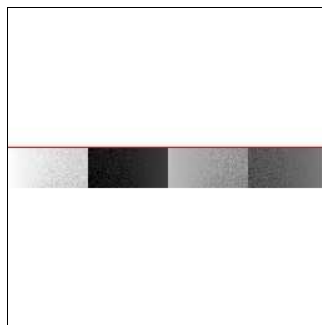
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5009.5633131266	Sum of GTIs [s]
caldsver	4.4.9	 	ontime7	5009.5633131266	Sum of GTIs [s]
date	2012-04-27T01:47:24	Date and time of file creation	l1events	62976	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

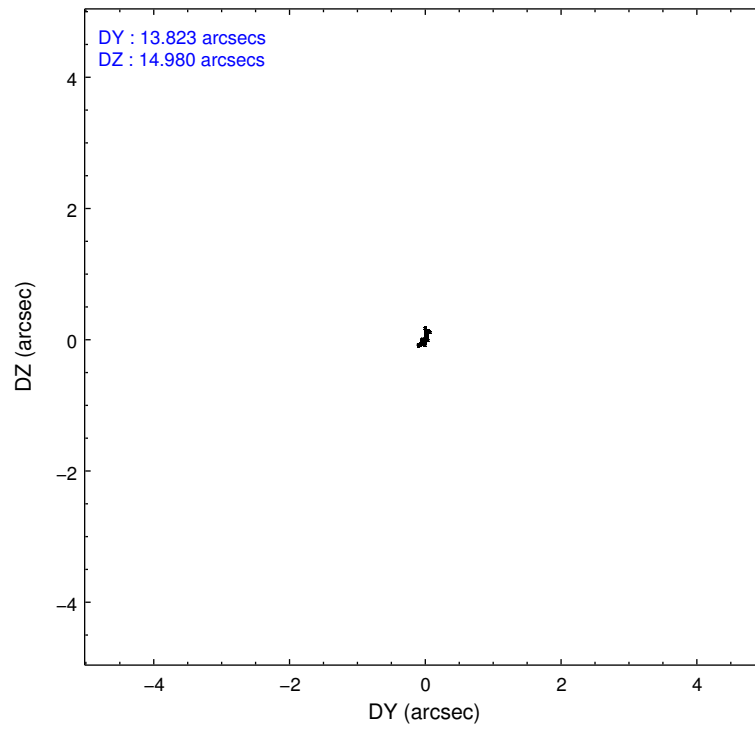
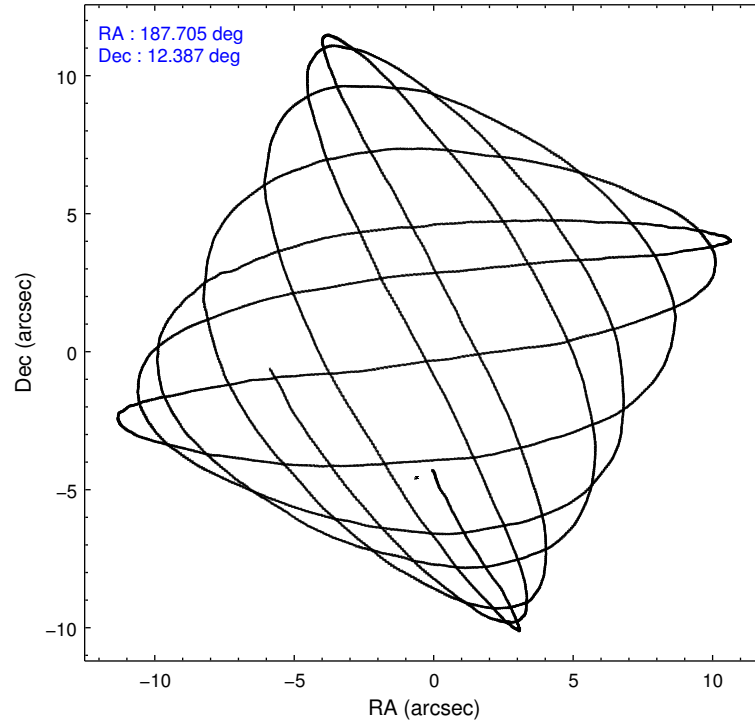
	ccd 7
level 1 events	62976
rejected events	7408
rejected %	11%

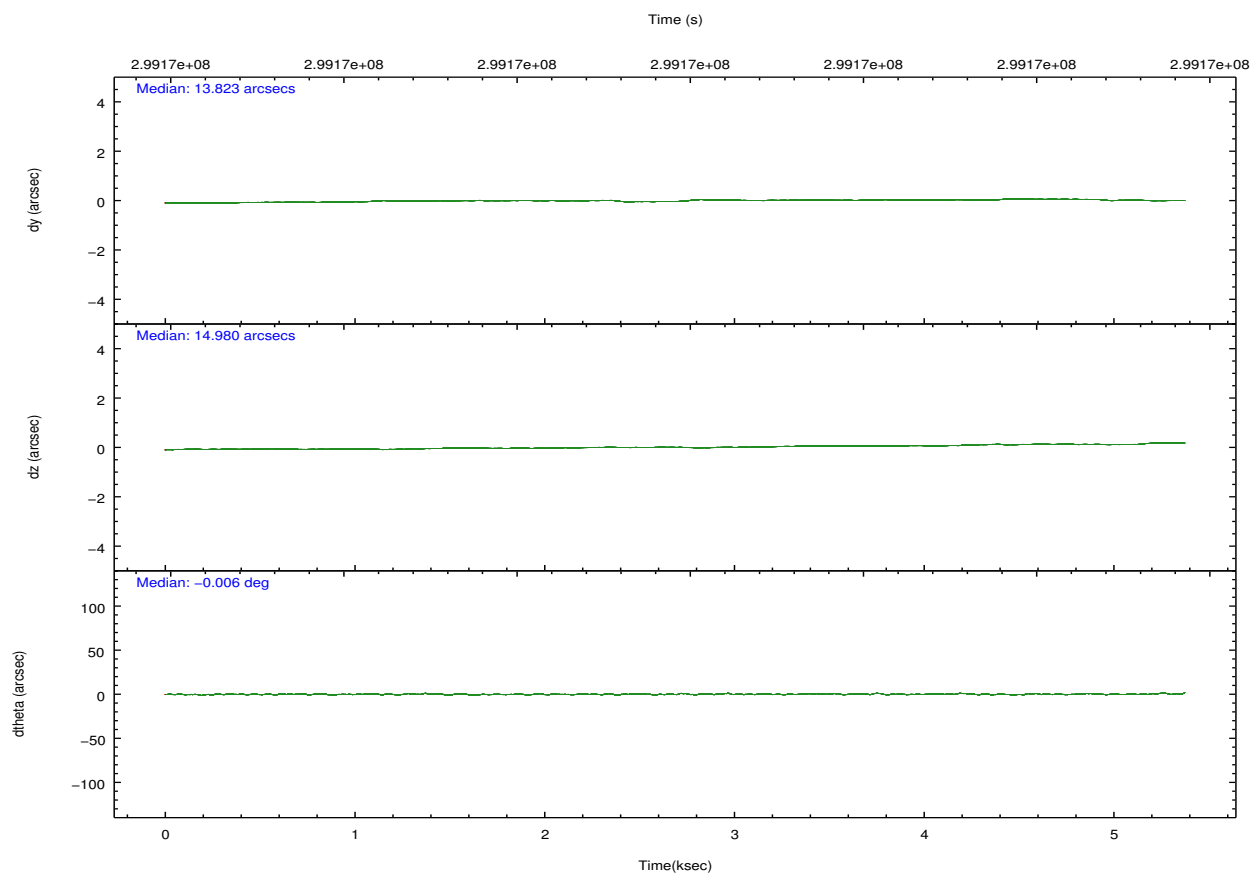
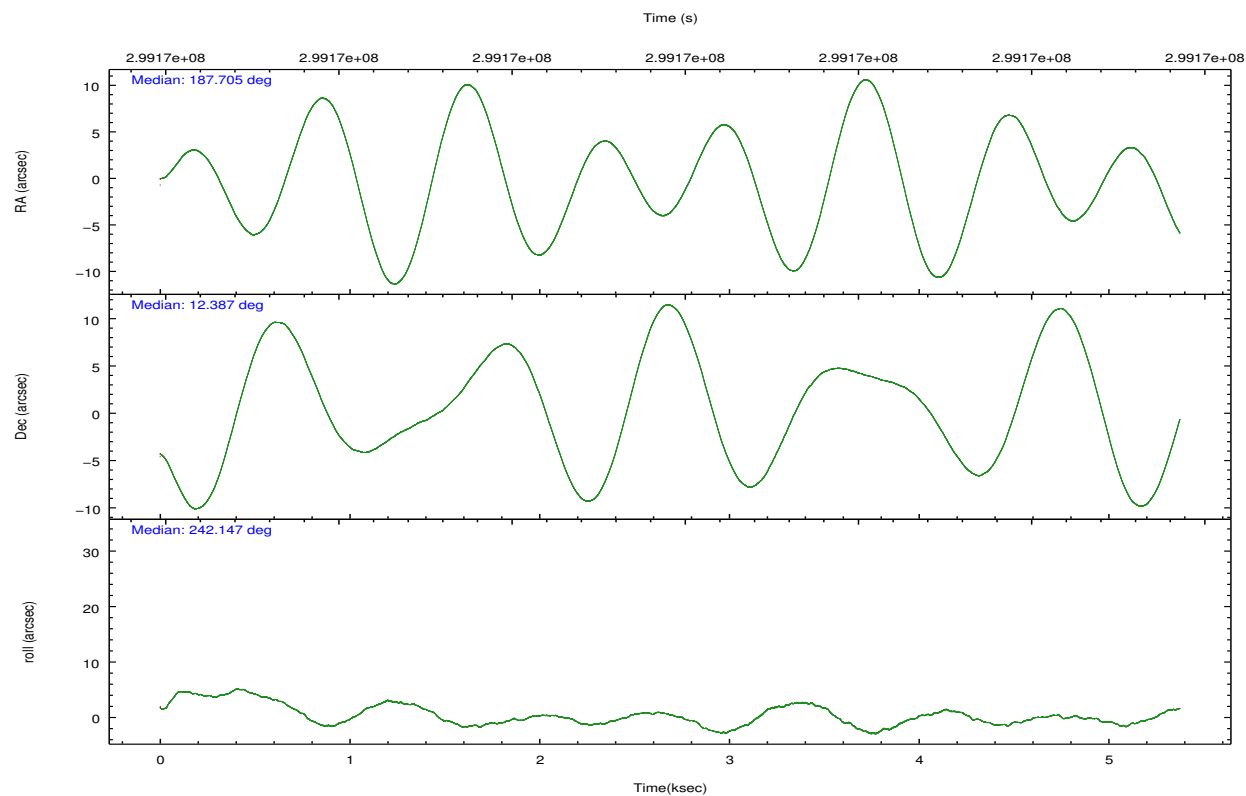
	ccd 7
grade 0 events	16328
	25%
grade 1 events	270
	0%
grade 2 events	14214
	22%
grade 3 events	6600
	10%
grade 4 events	6262
	9%
grade 5 events	1965
	3%
grade 6 events	12166
	19%
grade 7 events	5171
	8%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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
[deg] Pointing RA	187.703066	187.7045290083454	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.414134	12.38667136141566	Subarray start row	449	449
[deg] Pointing Roll	242.000238	242.1565358891366	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	299168598.184000	299167822.55246			
Observation start date	2007-06-25T14:22:13	2007-06-25T14:10:22			
[s] Observation end time (MET)	299173598.184000	299174300.55277			
Observation end date	2007-06-25T15:45:33	2007-06-25T15:58:20			
Read mode	TIMED	TIMED			

2.3 Aspect



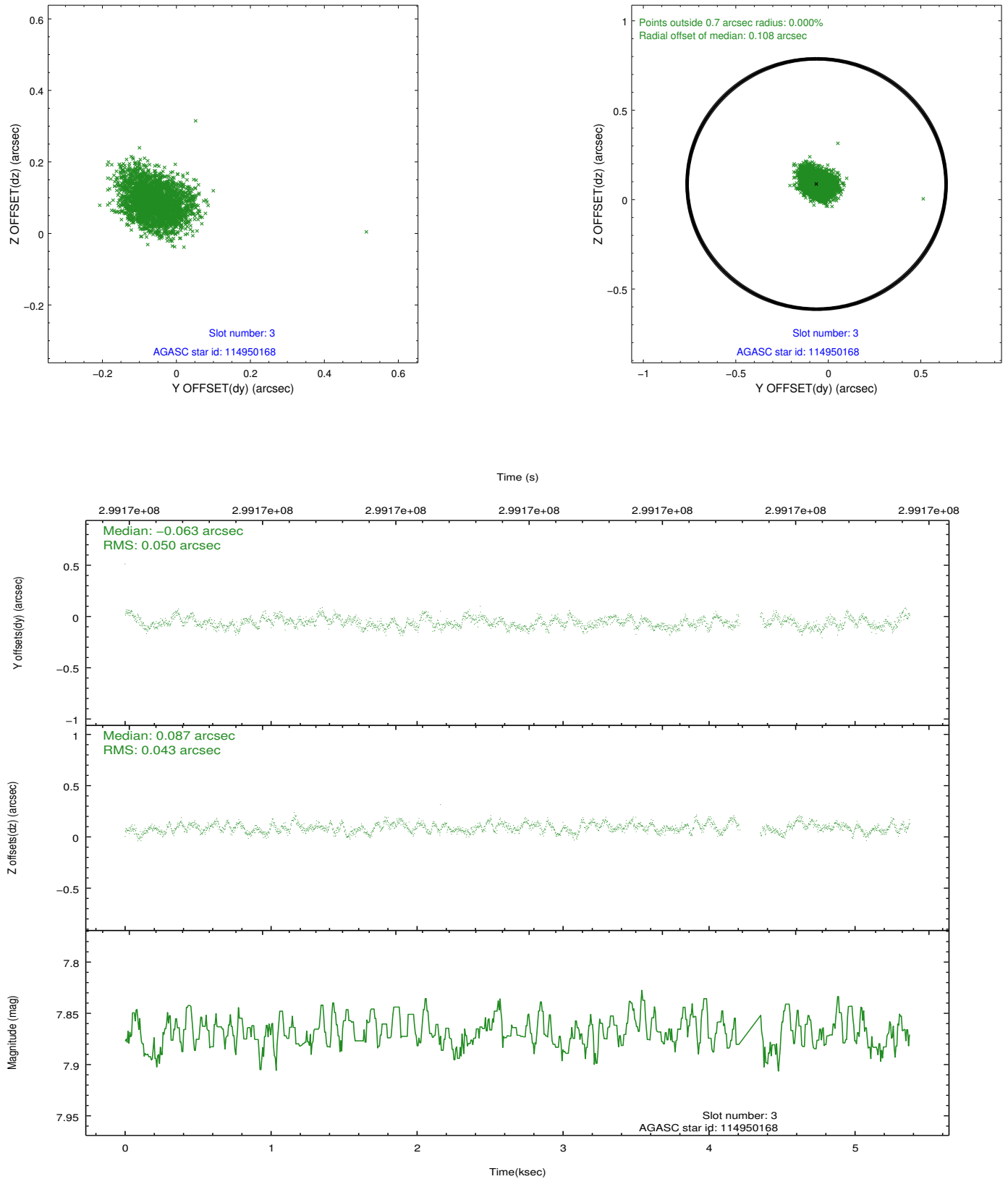


Slot Statistics

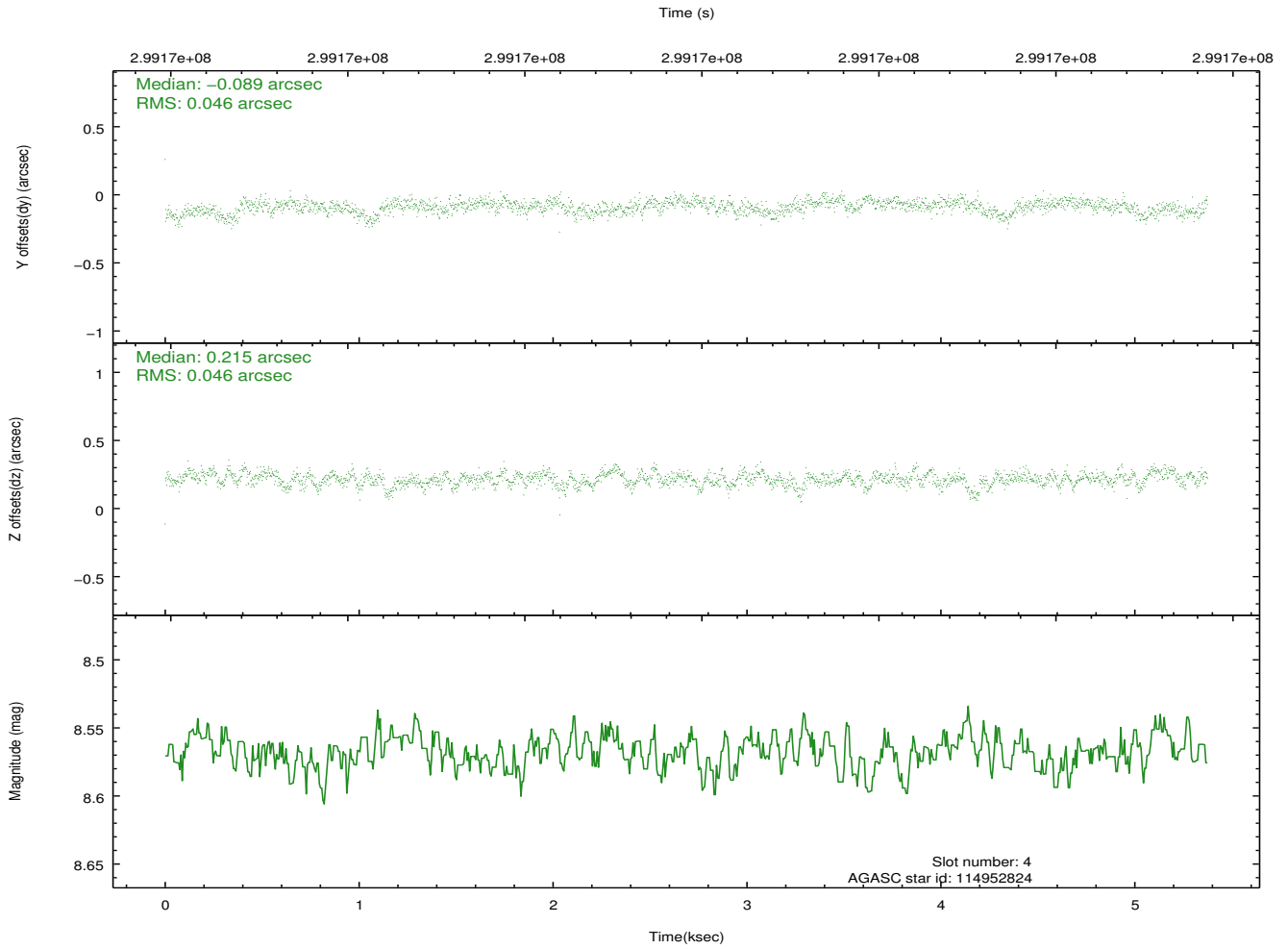
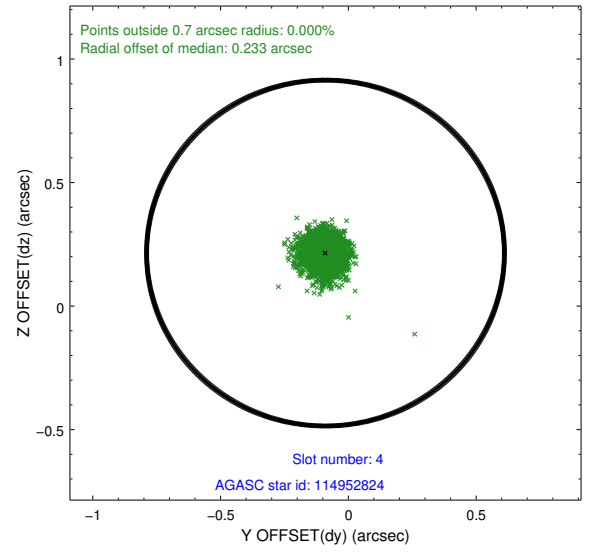
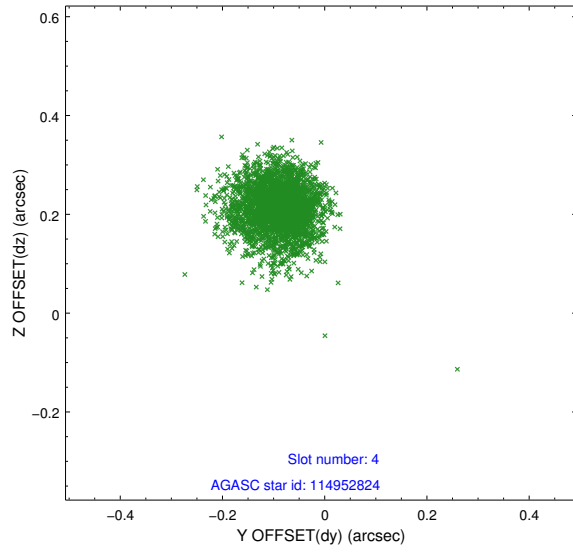
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	1312	0.076	-0.065	0.010	0.019	0.000000	0.000000	929.38	-1732.06
1	FID	ACIS-S-5	7.22	1312	-0.163	0.038	0.010	0.018	0.000000	0.000000	-1819.25	164.41
2	FID	ACIS-S-6	7.33	1311	0.066	0.039	0.008	0.013	0.000000	0.000000	393.68	809.66
3	GUIDE	114950168	7.87	2550	-0.063	0.087	0.070	0.110	187.143398	12.117441	1866.48	-1238.66
4	GUIDE	114952824	8.57	2622	-0.089	0.215	0.069	0.111	187.703904	12.486727	-231.36	-120.90
5	GUIDE	114955056	8.32	2623	-0.024	-0.159	0.058	0.096	187.914001	12.127854	560.86	1138.74
6	GUIDE	114957008	8.25	2623	0.147	-0.121	0.087	0.155	186.894794	12.099160	2334.10	-1981.84
7	GUIDE	114954440	9.19	2616	0.039	-0.019	0.096	0.164	186.915066	12.219118	1919.01	-2120.45

2.4 Star Slots

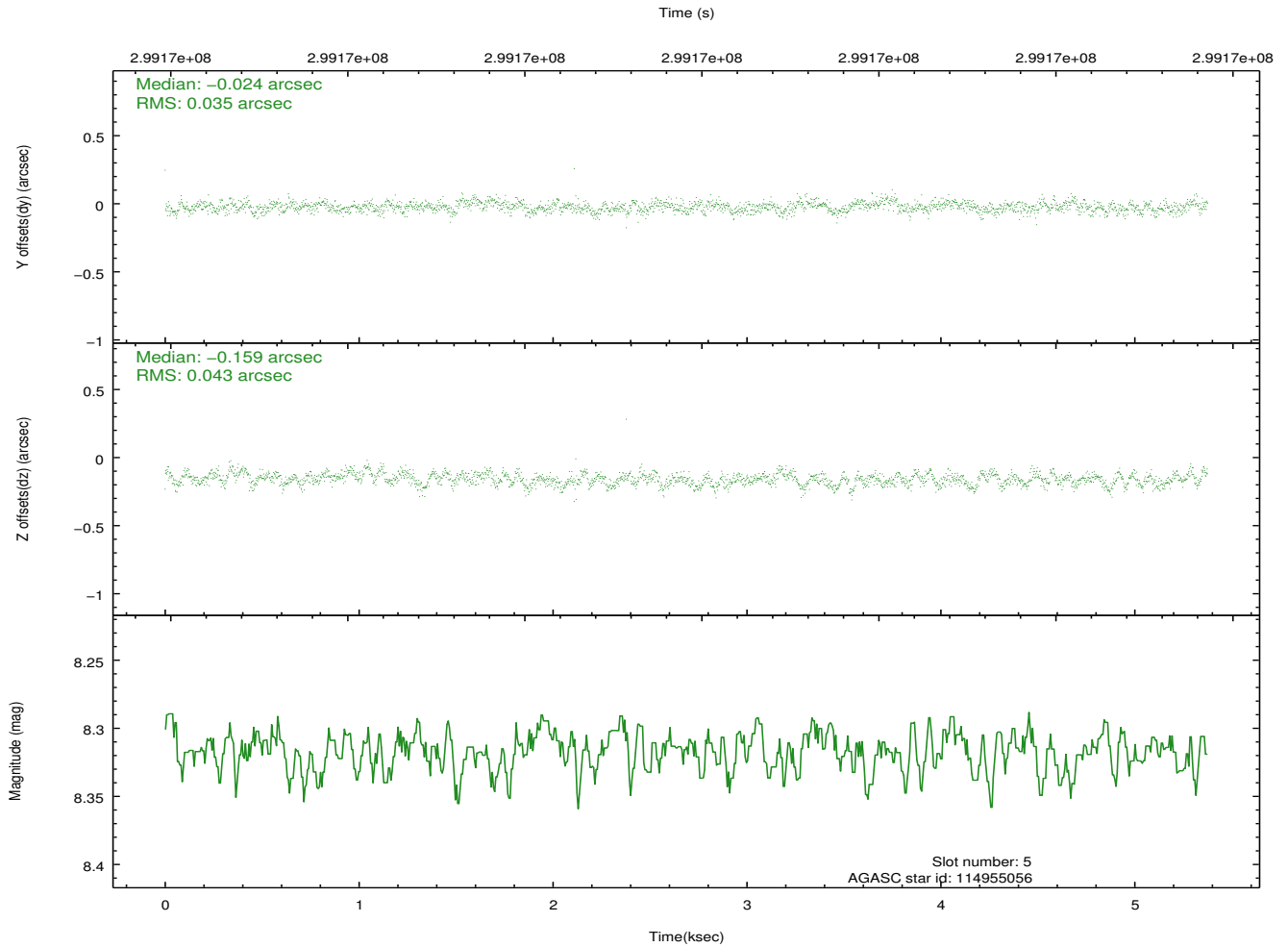
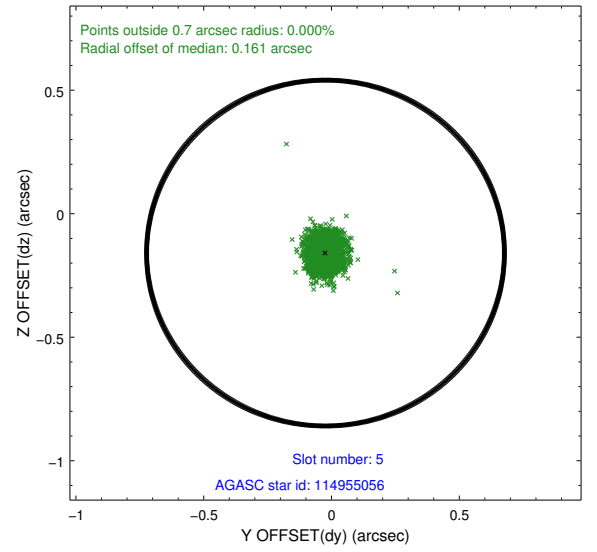
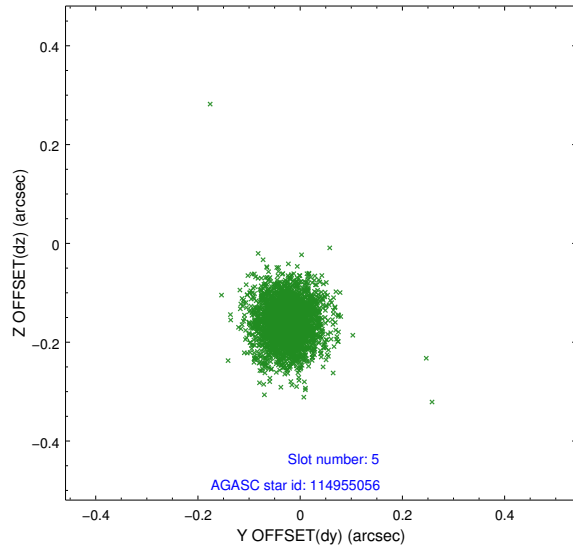
2.4.1 Slot 3



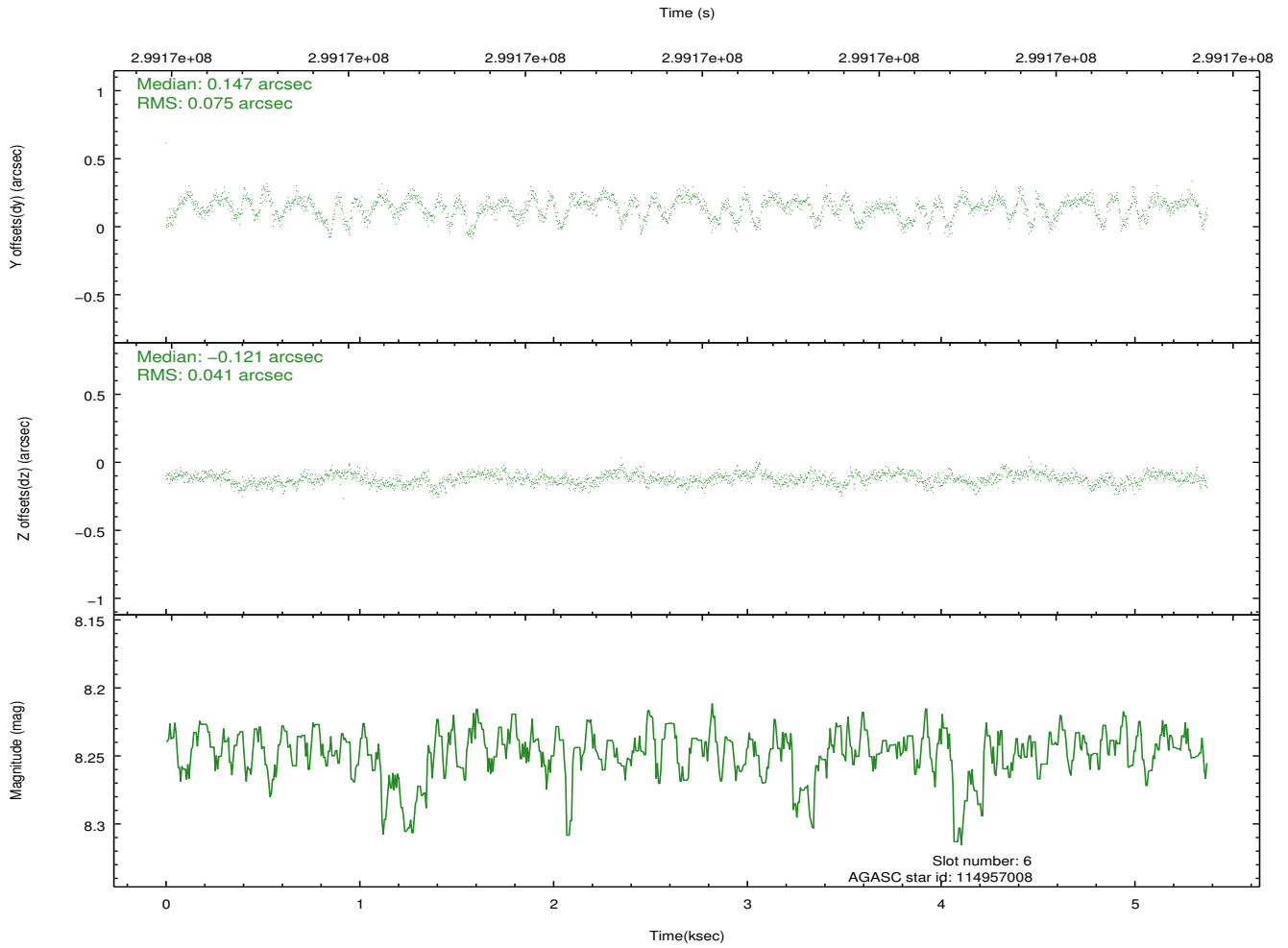
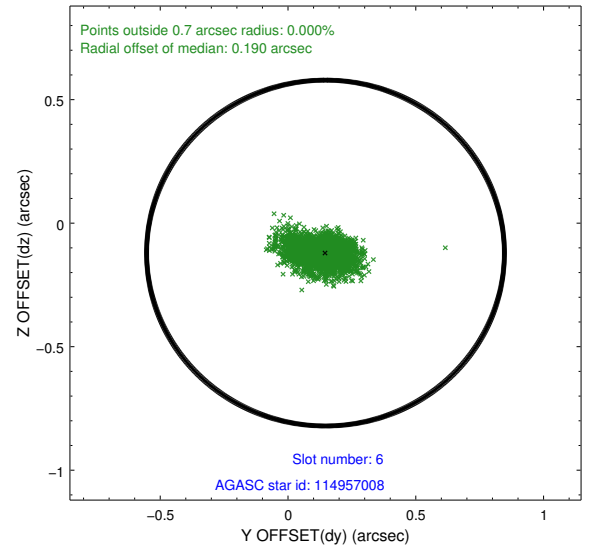
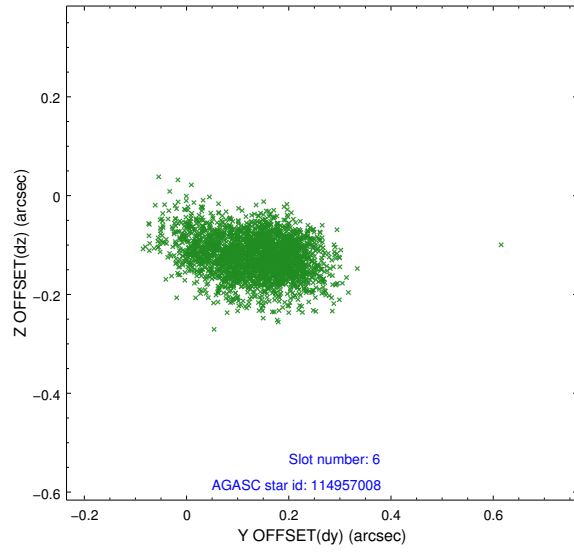
2.4.2 Slot 4



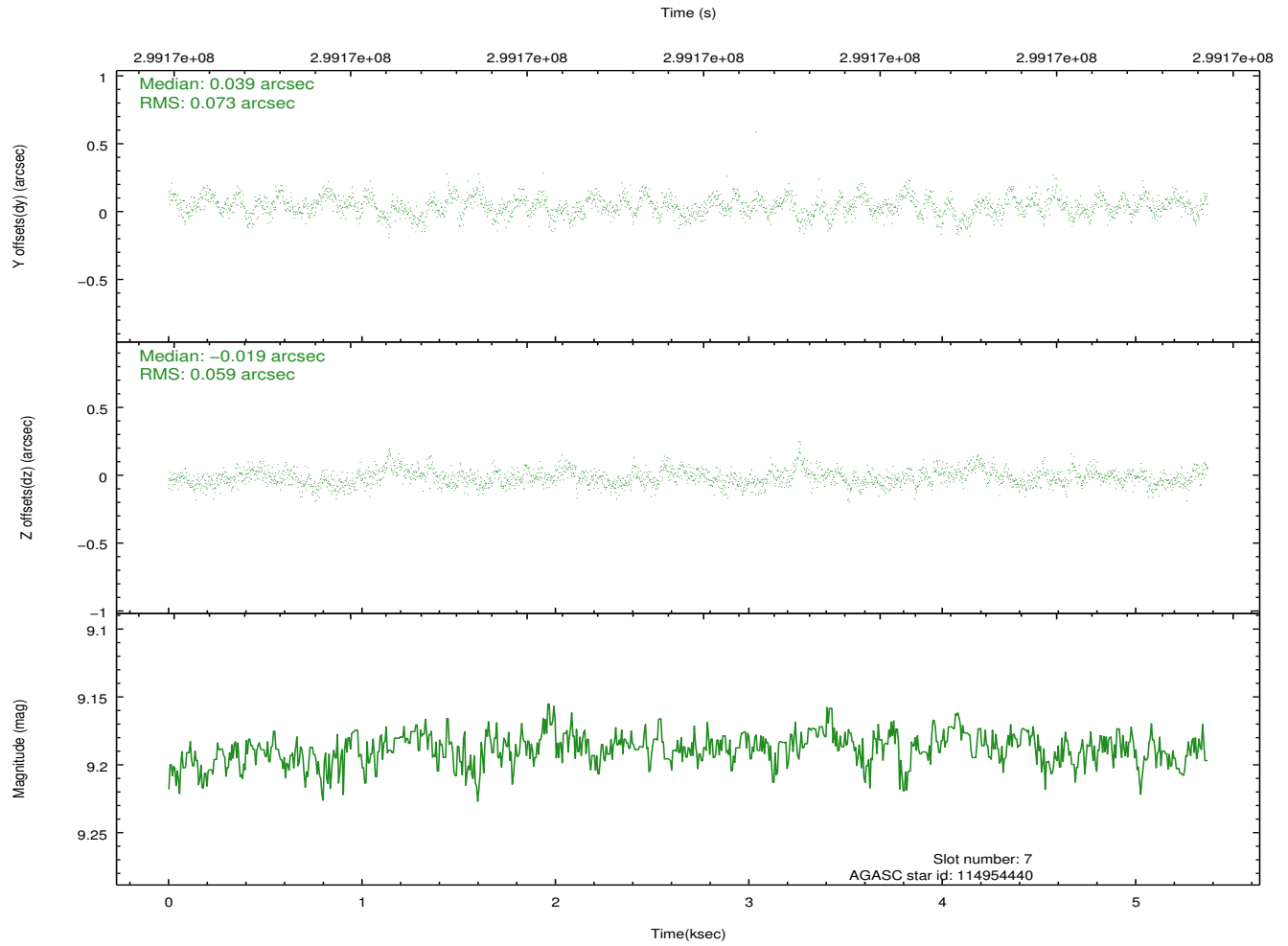
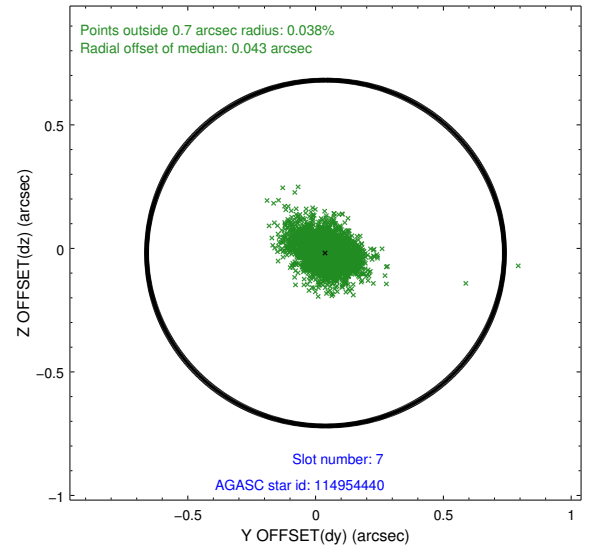
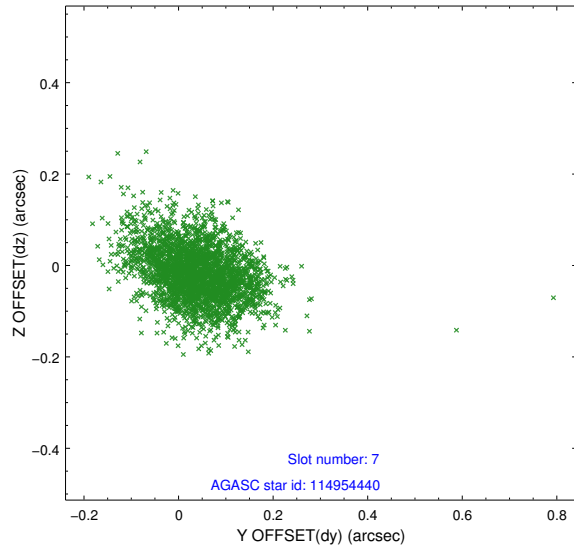
2.4.3 Slot 5



2.4.4 Slot 6

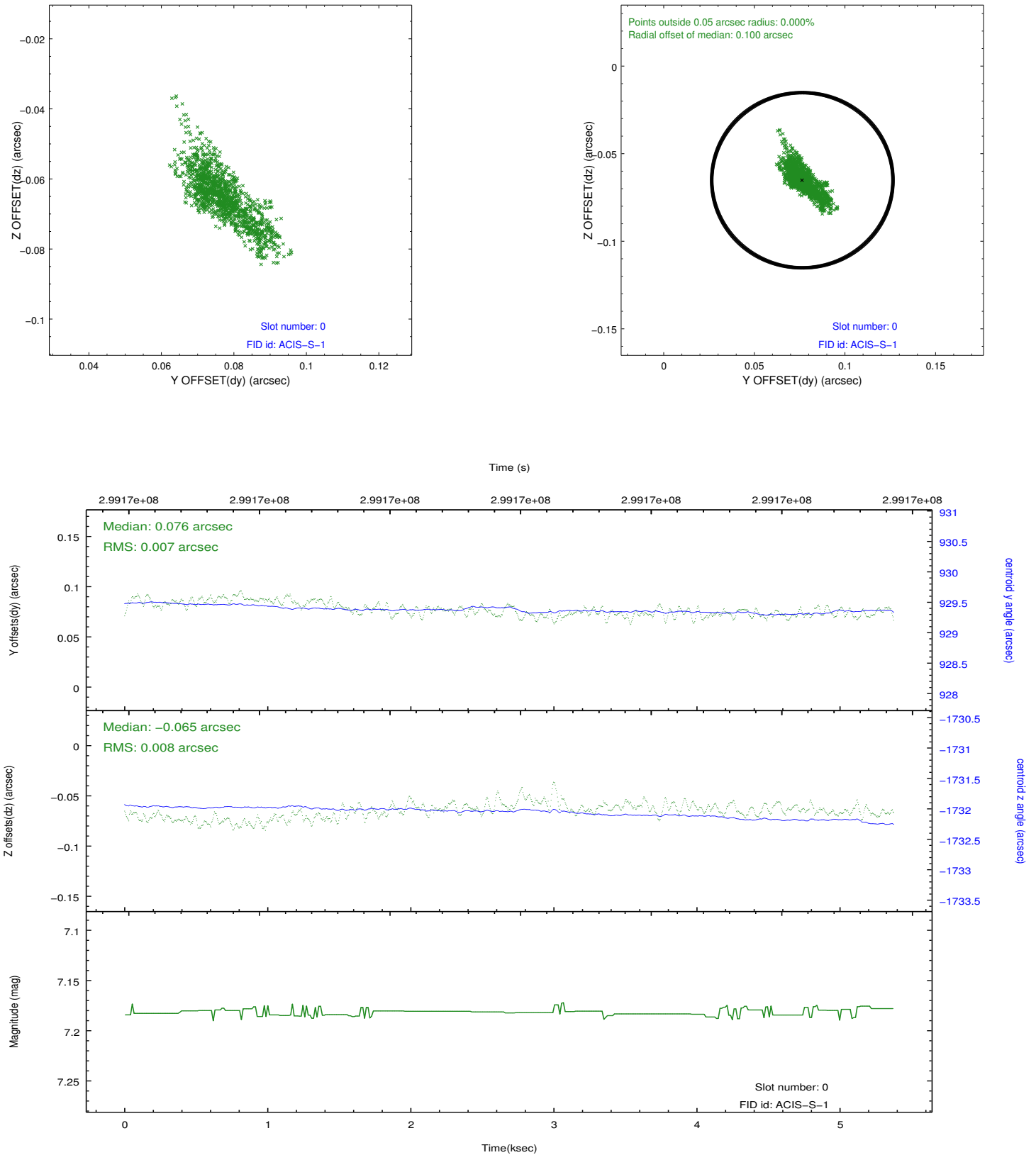


2.4.5 Slot 7

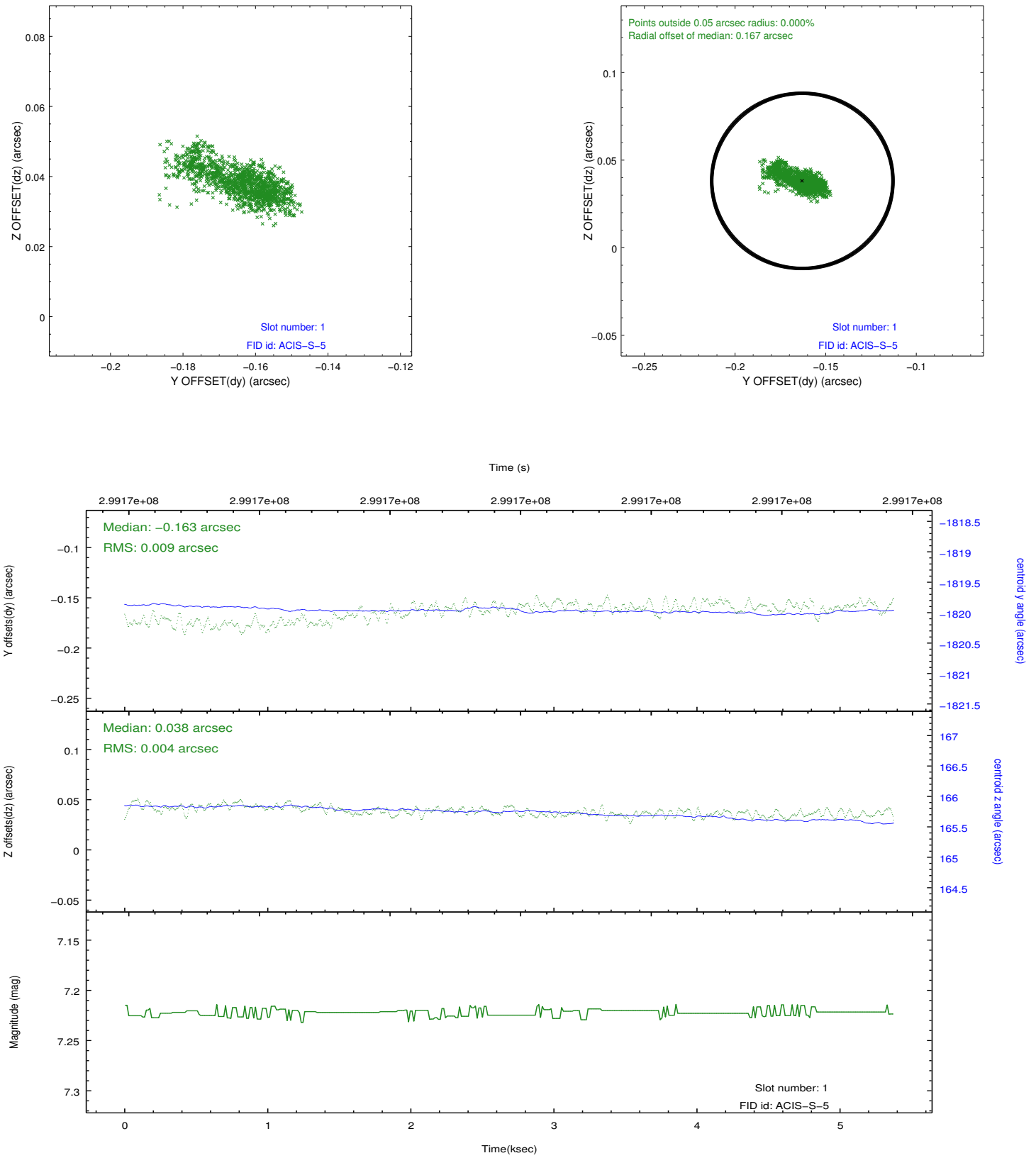


2.5 FID Slots

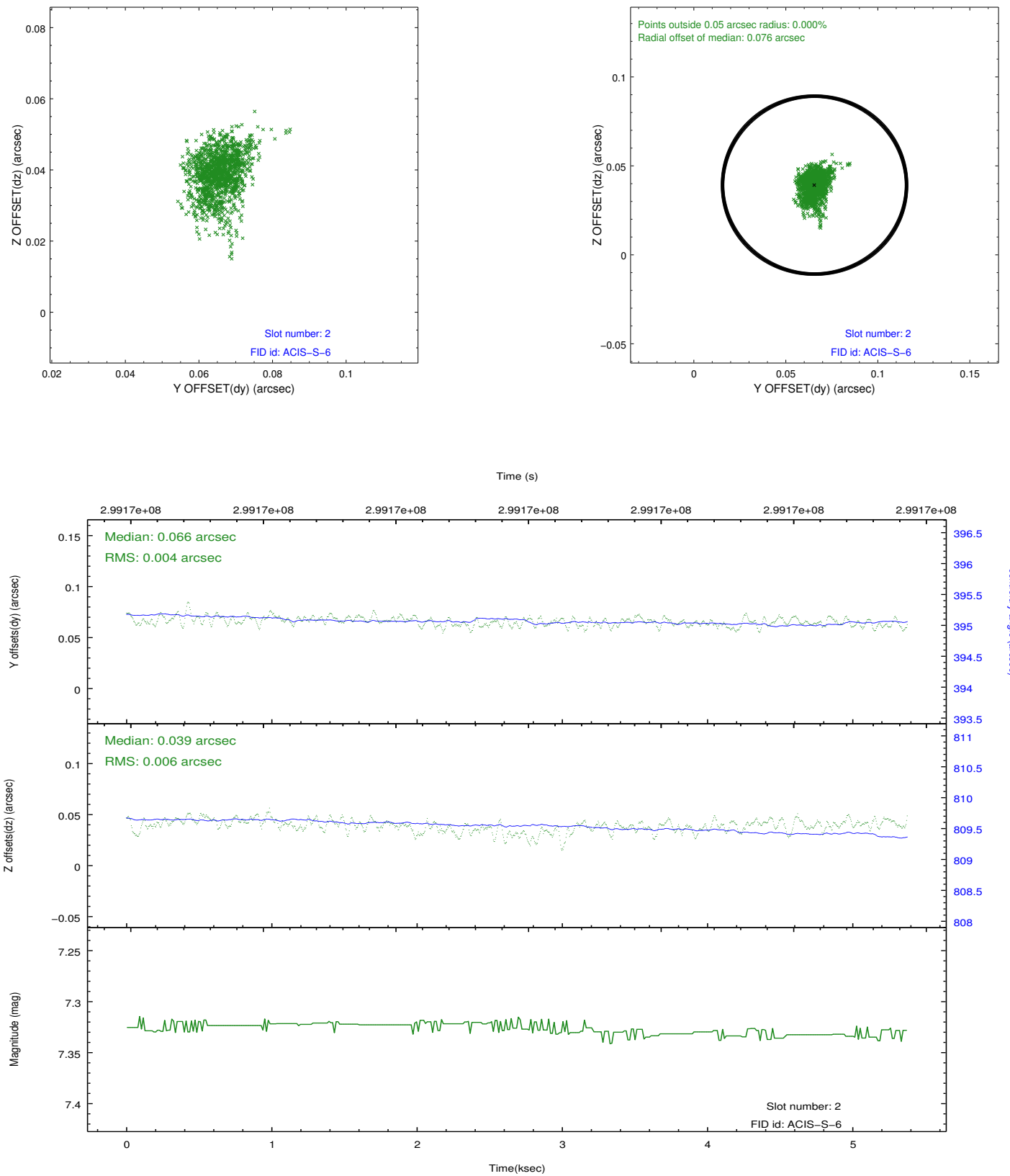
2.5.1 Slot 0



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)	2012.04.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0095997

A.2 Comments

Jet is projected within a few degrees of the angle of the readout streak and may be contaminated by it. Observer can contact the Chandra Director's Office if this observation does not meet the science goals, although as part of a monitoring series it would be difficult to obtain additional data that fit the time constraints. Joint Proposal: CXO-HST