

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3086 - L2 Version 4
Chandra X-Ray Center

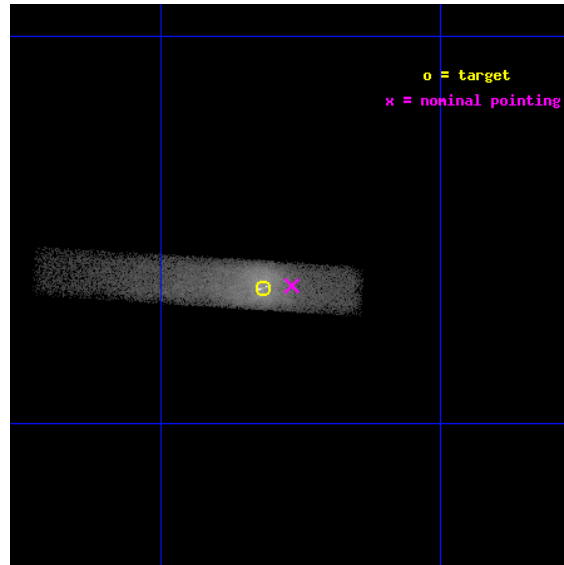
L2 Processing Date : Oct 4 2012

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

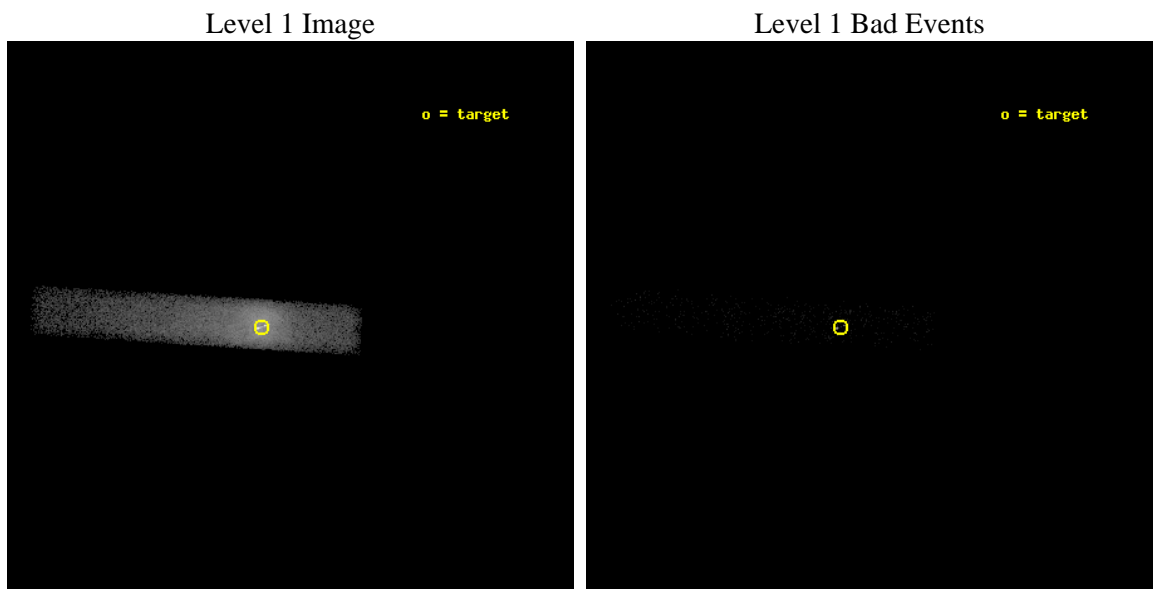
seq_num	700525	Sequence number
obs_id	3086	Observation id
title	X-RAY VARIABILITY IN THE JET AND CORE OF M87	Proposal title
observer	Dr. Daniel Harris	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.69138911882	Nominal RA [deg]
dec_nom	12.392626017763	Nominal Dec [deg]
roll_nom	183.56564378332	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5088.7590358555	Sum of GTIs [s]
livetime	4615.2358387952	Livetime [s]
ontime7	5088.7590358555	Sum of GTIs [s]
l2events	61820	Number of level 2 events



2 OBI

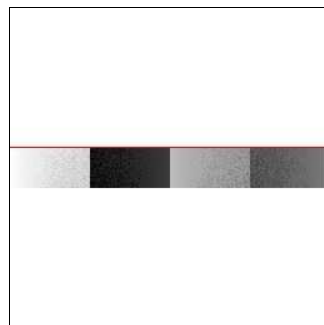
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4889.820000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5088.7590358555	Sum of GTIs [s]
caldsver	4.5.2	 	ontime7	5088.7590358555	Sum of GTIs [s]
date	2012-10-04T16:09:57	Date and time of file creation	l1events	68201	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

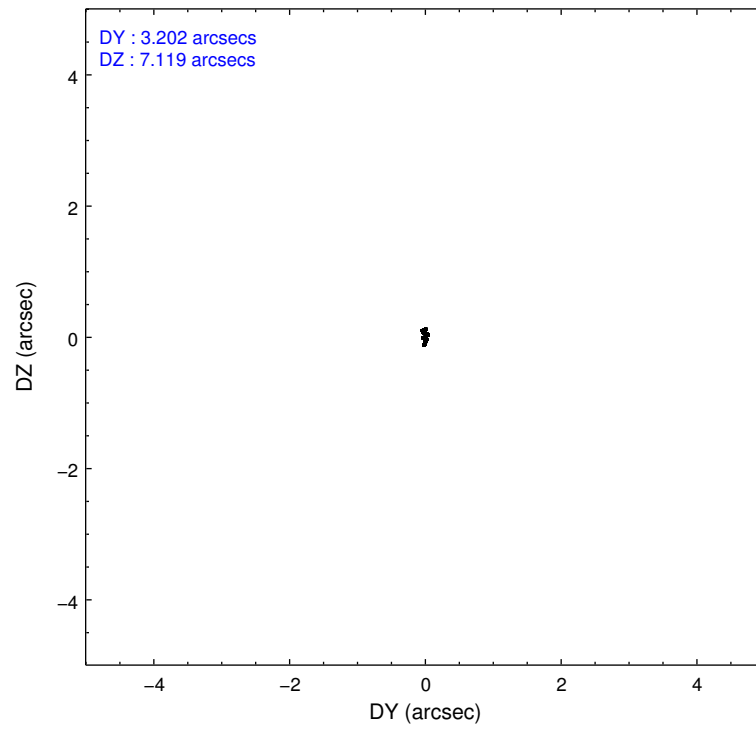
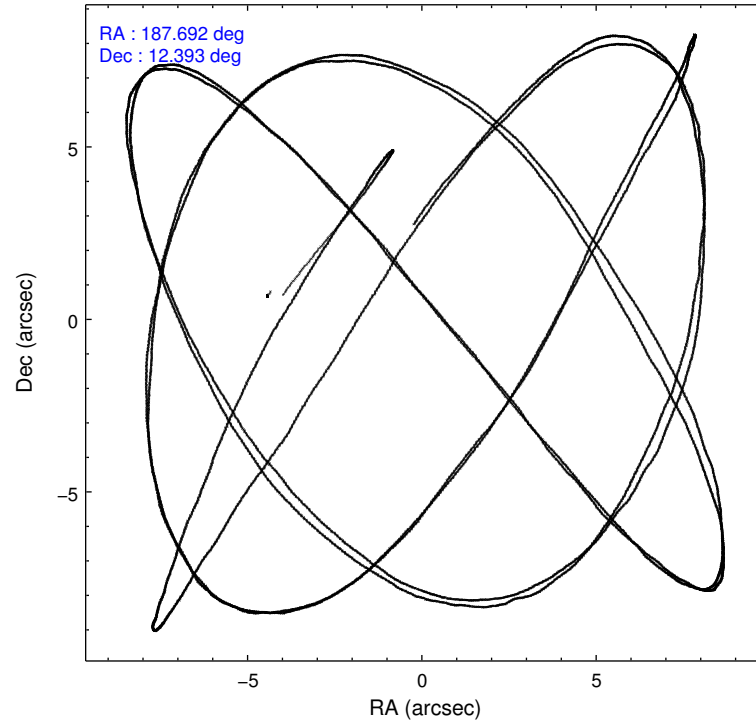
	ccd 7
level 1 events	68201
rejected events	5635
rejected %	8%

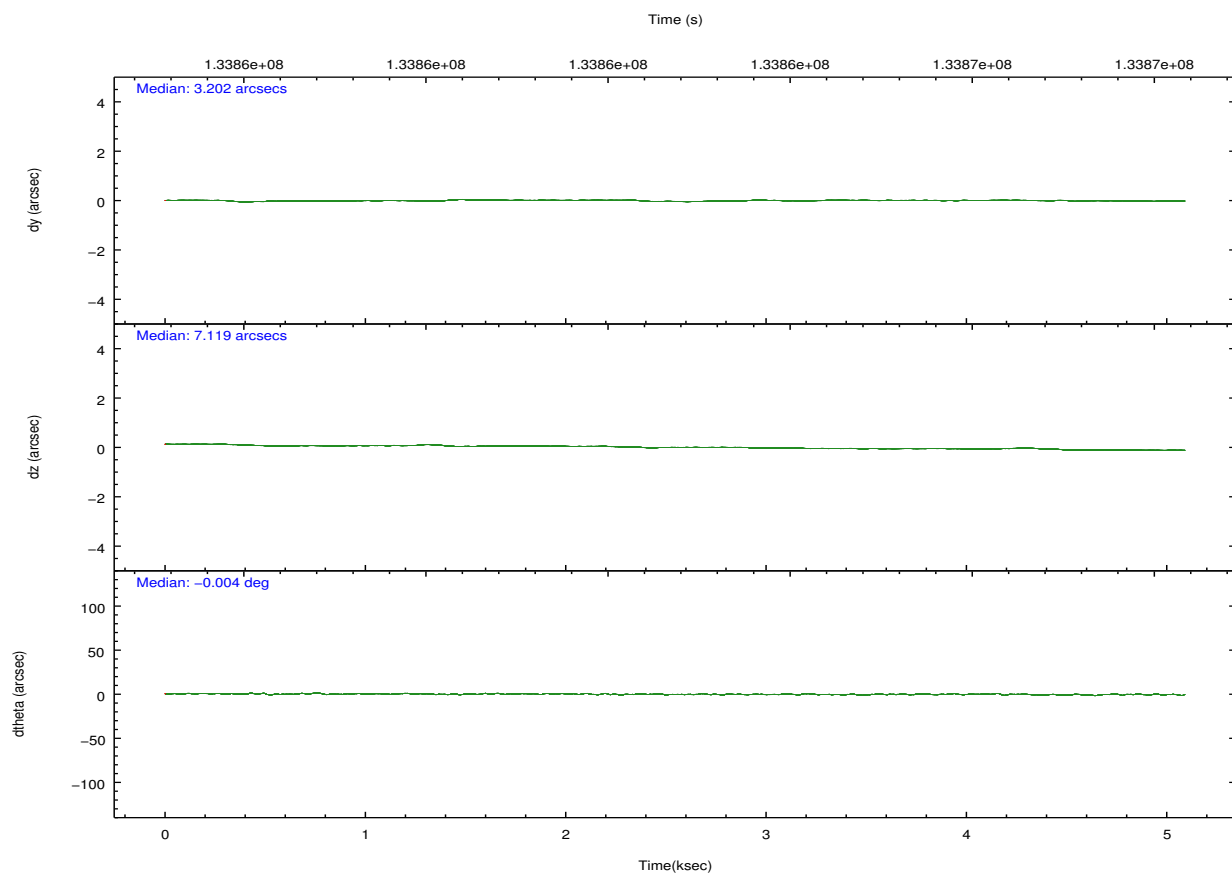
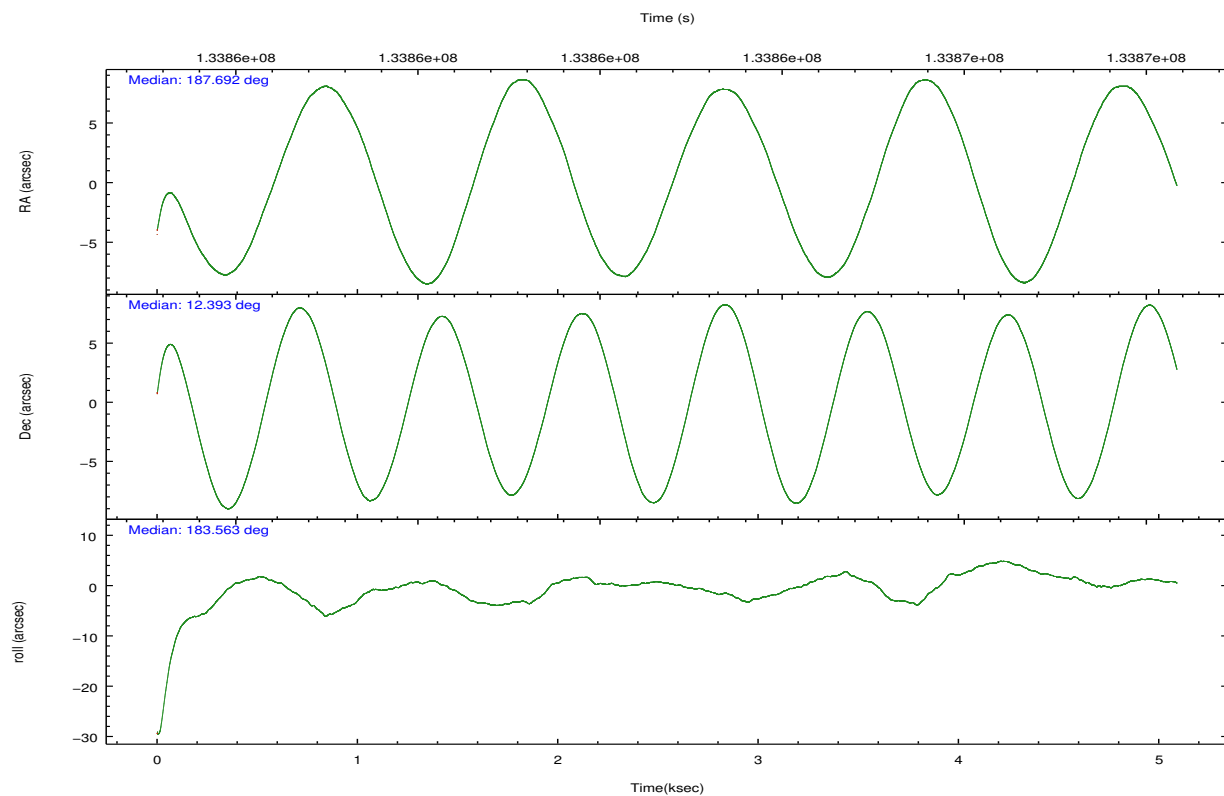
	ccd 7
grade 0 events	21327
	31%
grade 1 events	84
	0%
grade 2 events	16376
	24%
grade 3 events	7539
	11%
grade 4 events	7410
	10%
grade 5 events	1037
	1%
grade 6 events	11495
	16%
grade 7 events	2933
	4%

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	187.714457	187.6913891188228	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.407963	12.39262601776274	Subarray start row	449	449
[deg] Pointing Roll	183.404103	183.5656437833233	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)	133862026.184000	133861013.98234			
Observation start date	2002-03-30T07:52:42	2002-03-30T07:36:53			
[s] Observation end time (MET)	133866916.184000	133867230.0951			
Observation end date	2002-03-30T09:14:12	2002-03-30T09:20:30			
Read mode	TIMED	TIMED			

2.3 Aspect



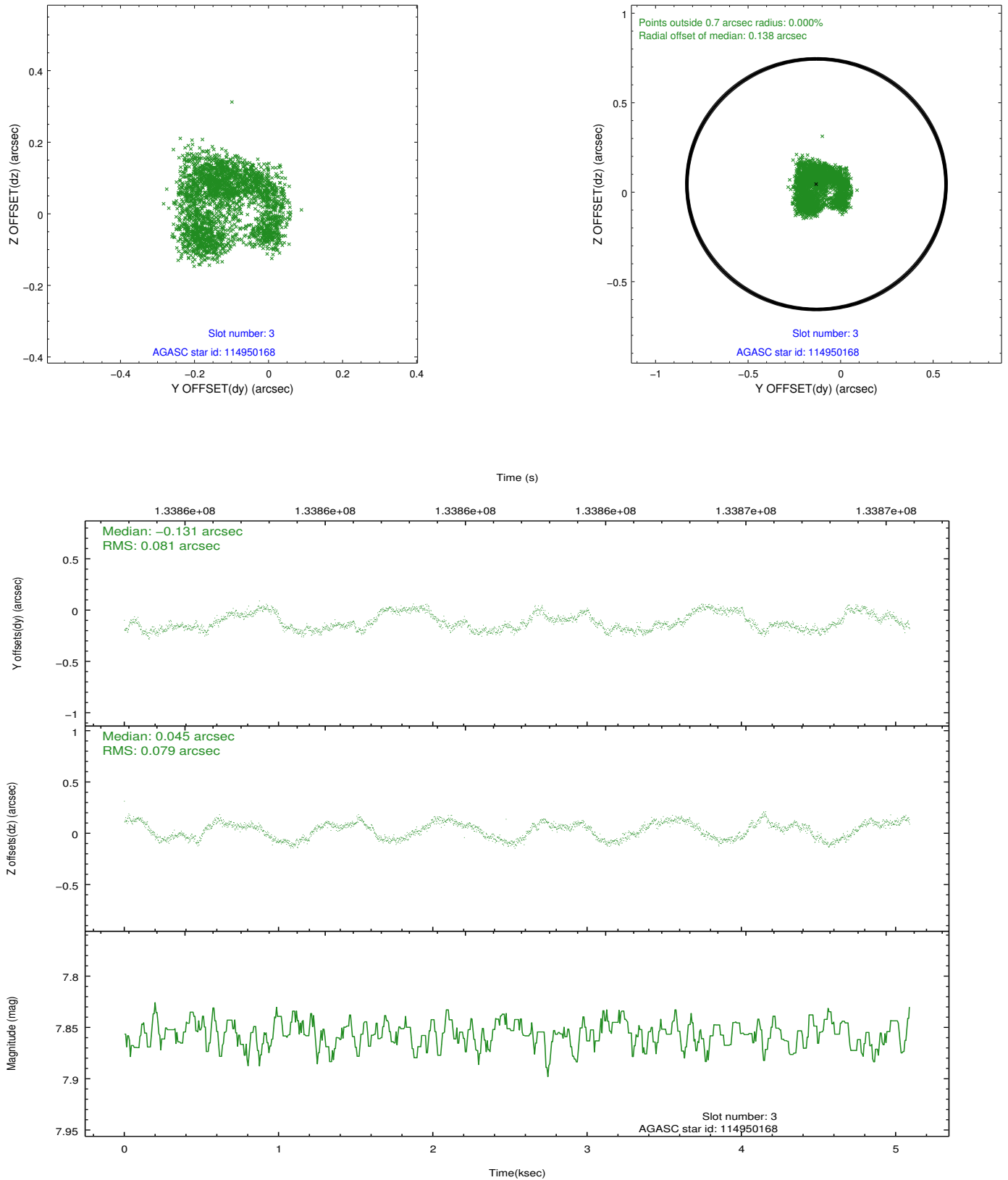


Slot Statistics

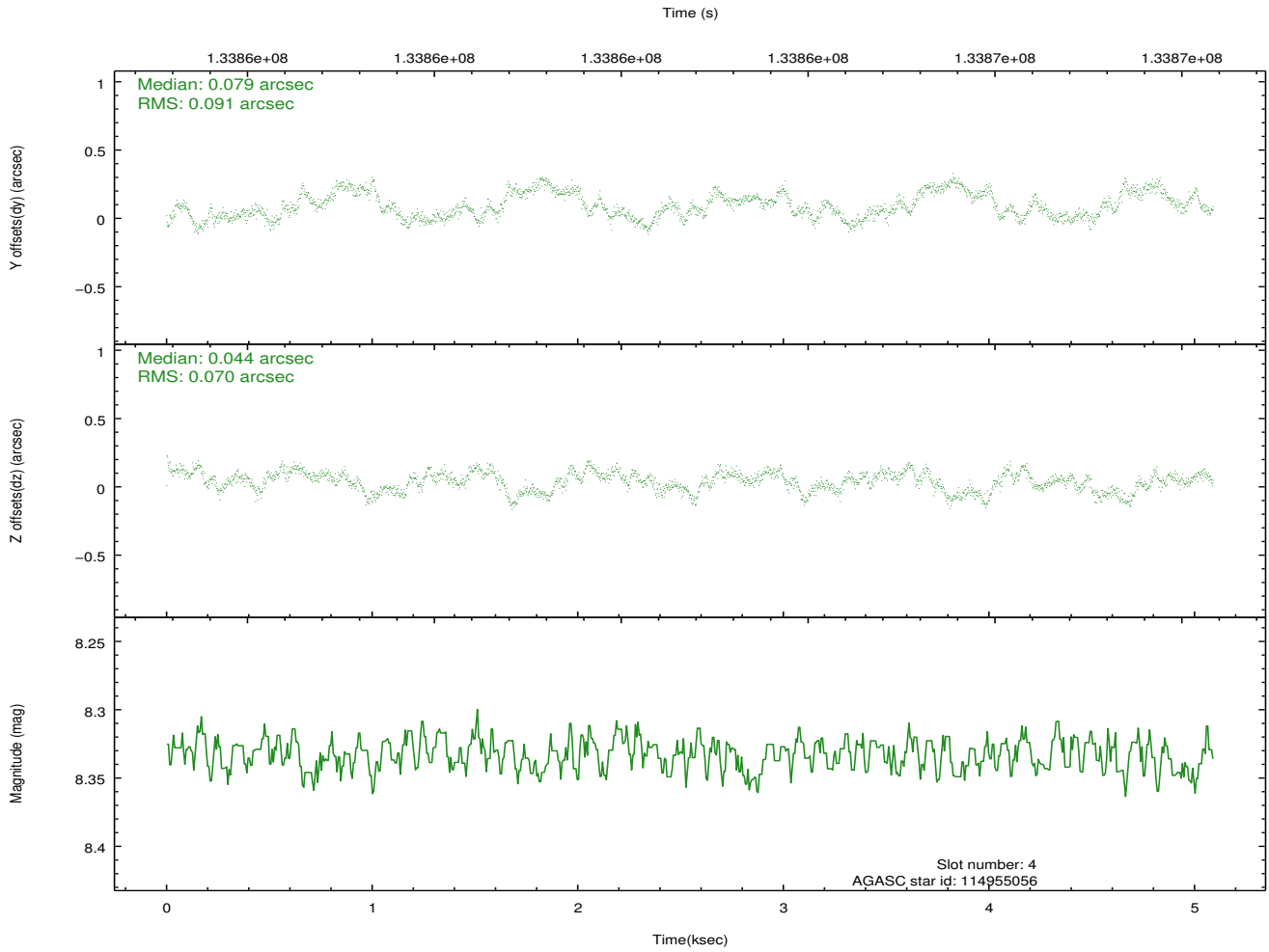
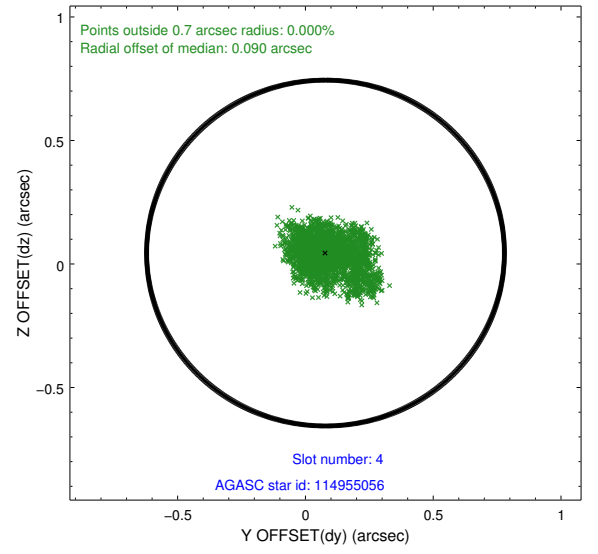
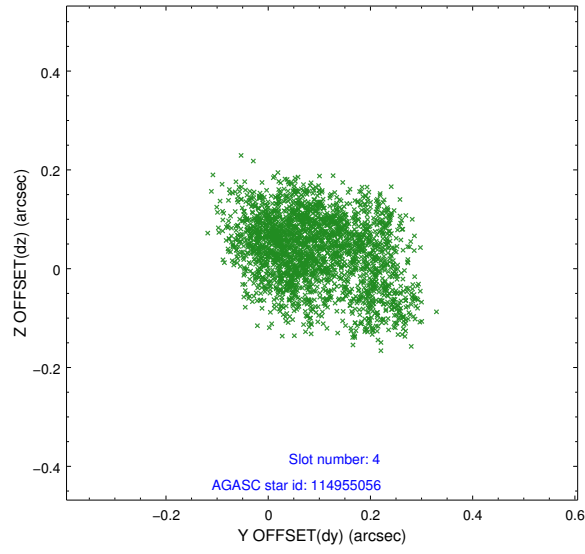
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1241	-0.010	0.005	0.007	0.012	0.000000	0.000000	-755.85	-1728.29
1	FID	ACIS-S-4	7.20	1241	-0.019	0.004	0.005	0.009	0.000000	0.000000	2156.87	178.97
2	FID	ACIS-S-5	7.24	1241	-0.002	0.001	0.007	0.012	0.000000	0.000000	-1807.15	173.99
3	GUIDE	114950168	7.86	2483	-0.131	0.045	0.127	0.176	187.143398	12.117441	2069.30	923.44
4	GUIDE	114955056	8.33	2481	0.079	0.044	0.121	0.199	187.914001	12.127854	-639.32	1049.09
5	GUIDE	114950584	9.20	2479	-0.096	-0.010	0.116	0.181	187.487323	11.827248	923.69	2040.19
6	GUIDE	114952424	9.33	2482	0.015	0.039	0.135	0.215	187.477948	11.953762	930.24	1584.03
7	GUIDE	114952792	9.46	2481	0.145	-0.128	0.411	0.638	187.070263	12.344747	2276.52	91.36

2.4 Star Slots

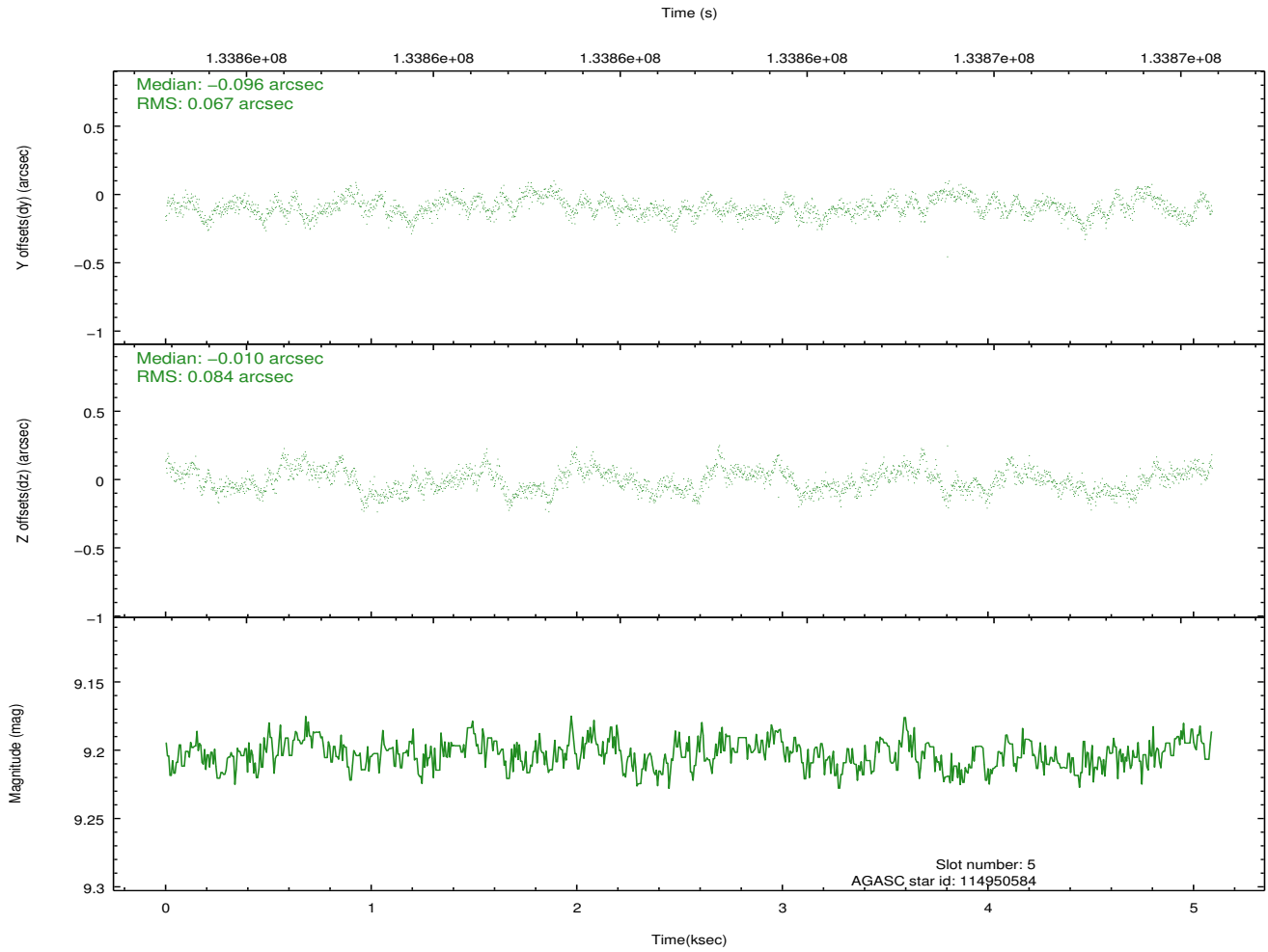
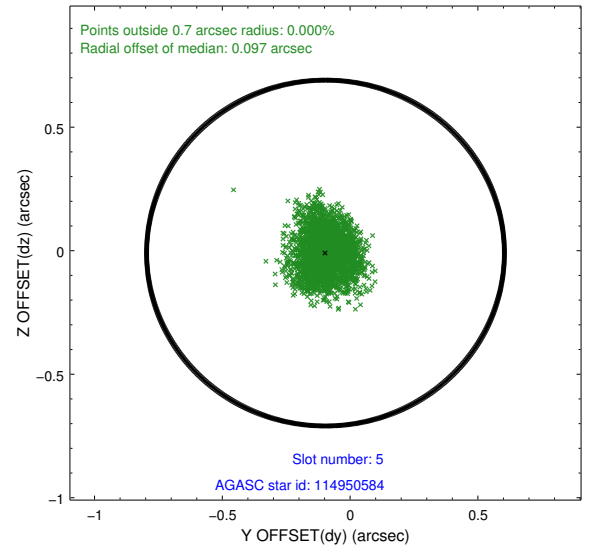
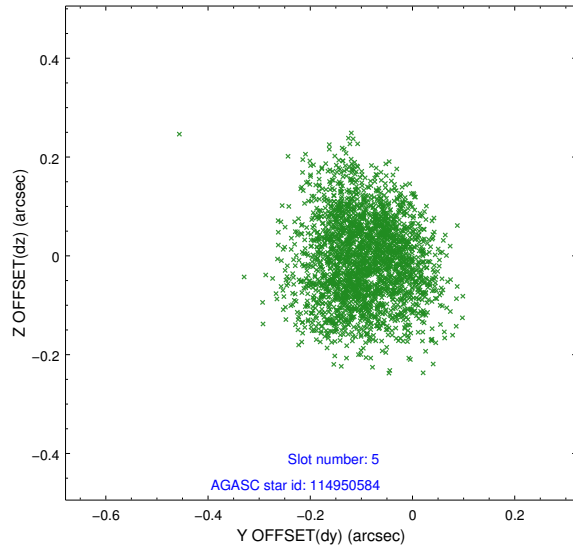
2.4.1 Slot 3



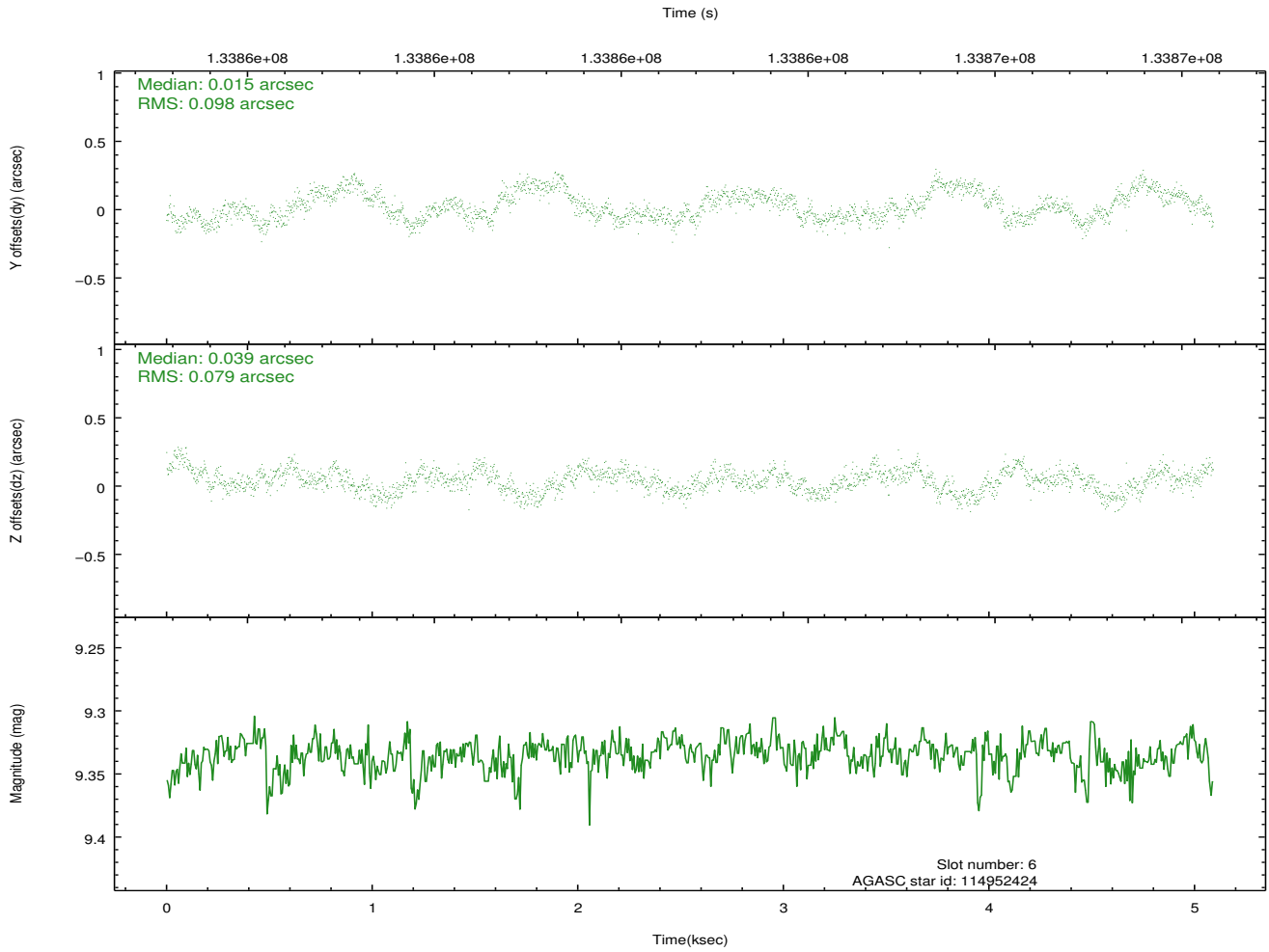
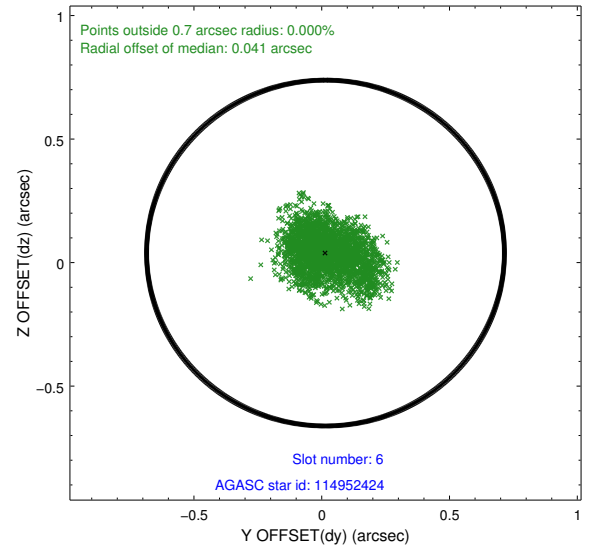
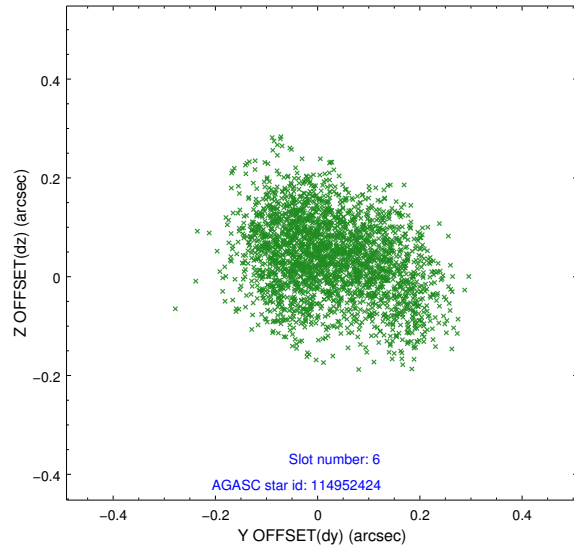
2.4.2 Slot 4



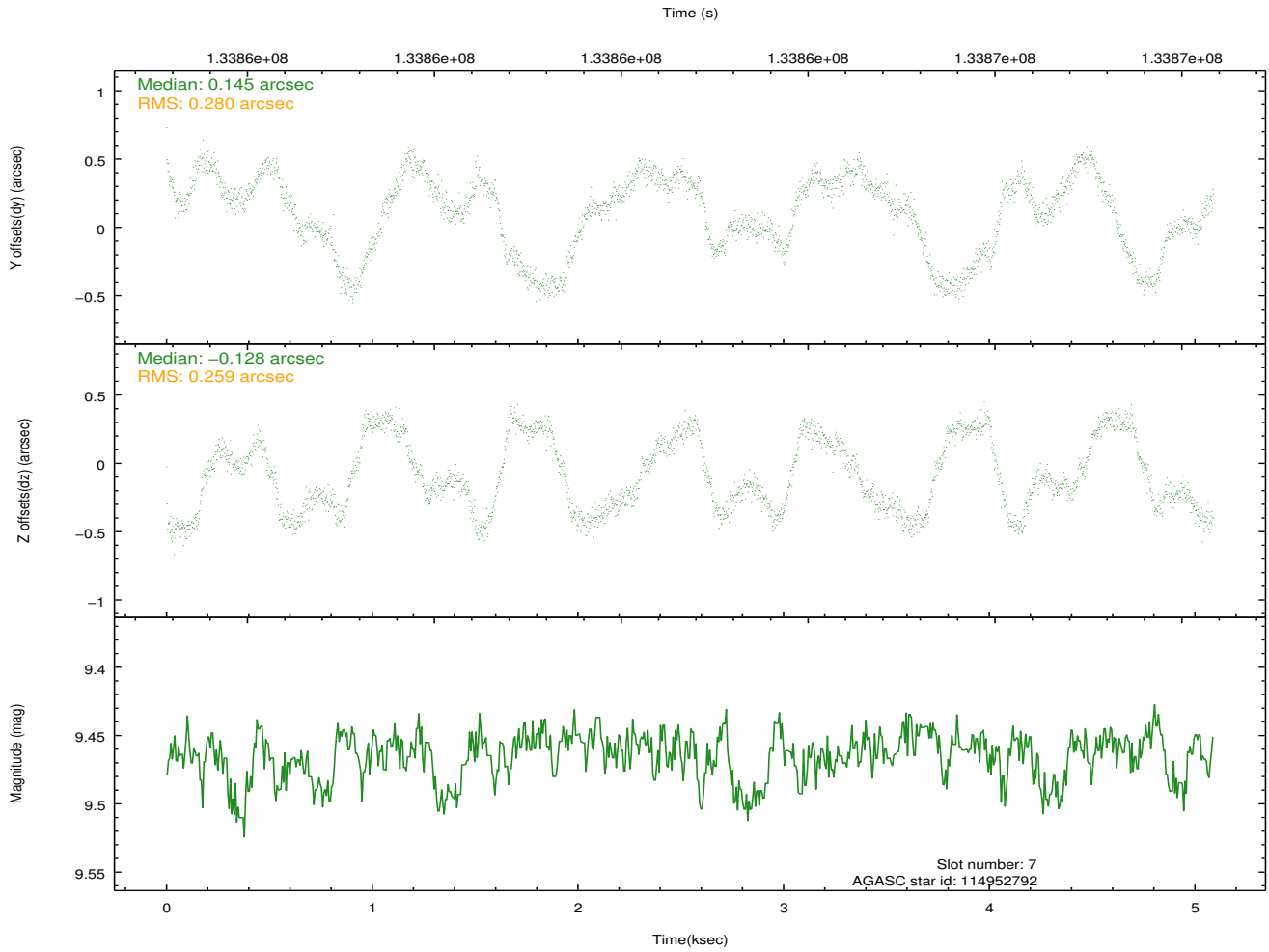
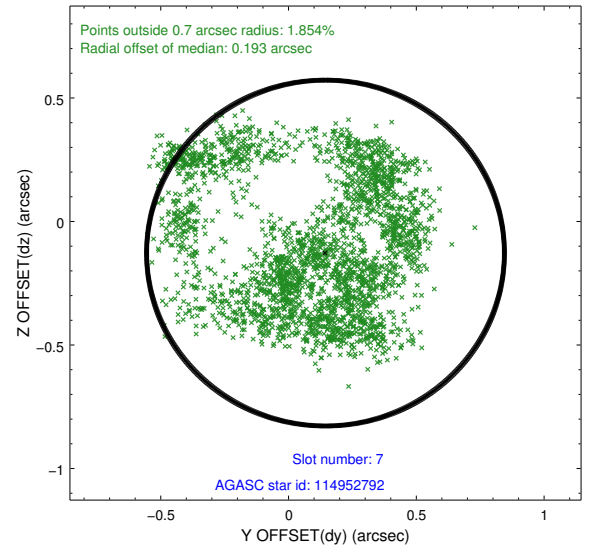
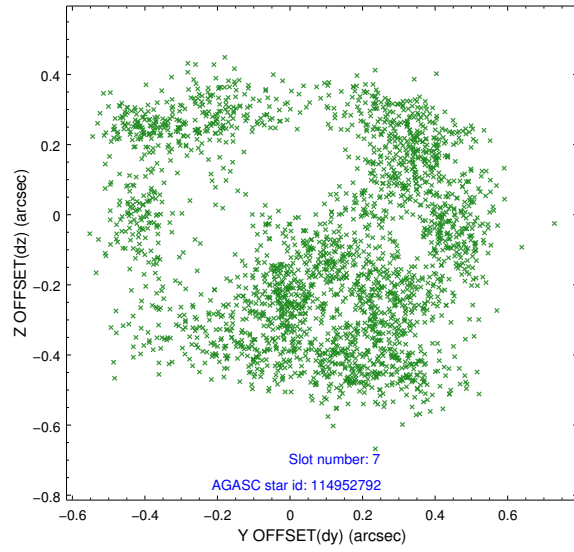
2.4.3 Slot 5



2.4.4 Slot 6

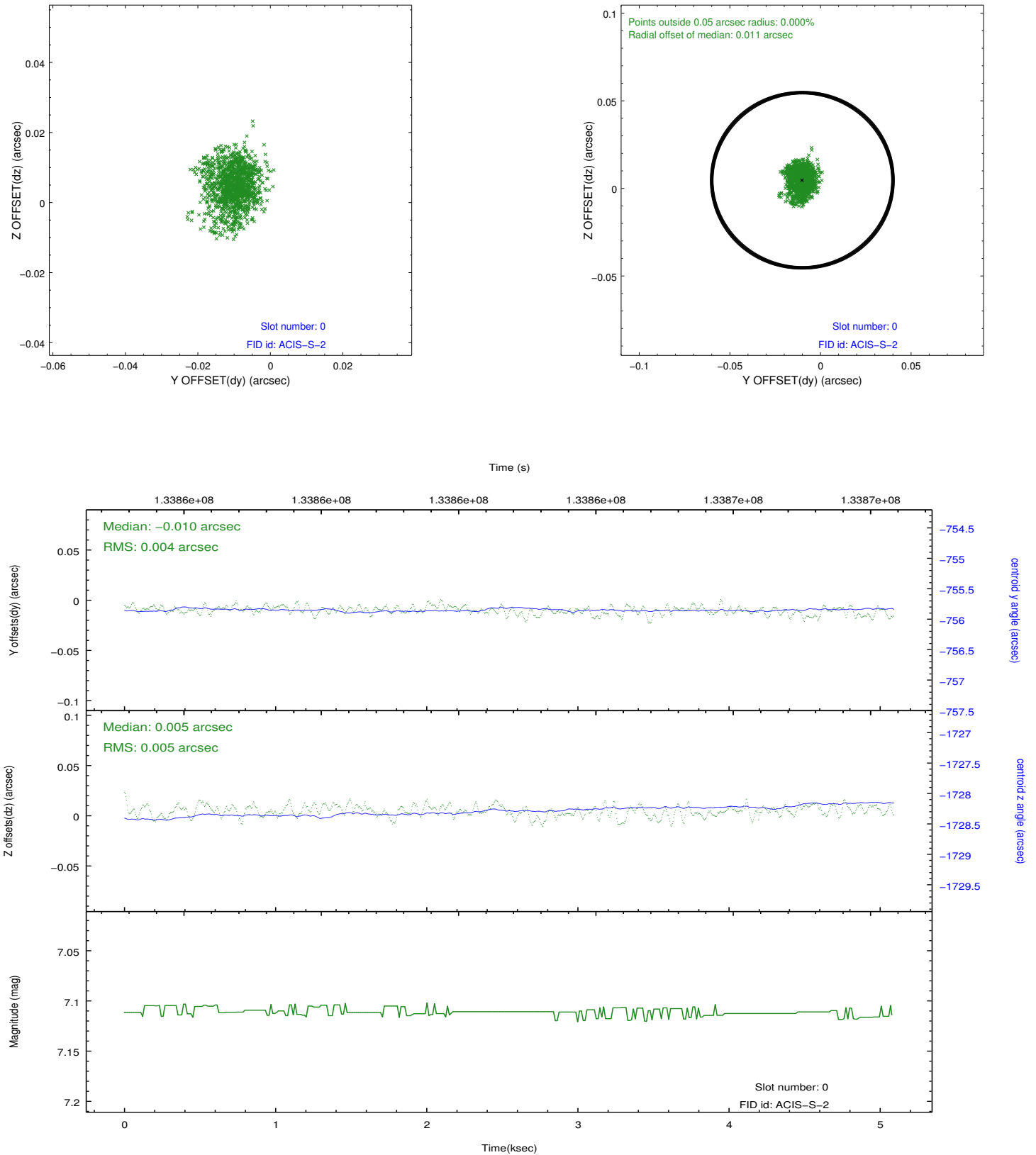


2.4.5 Slot 7

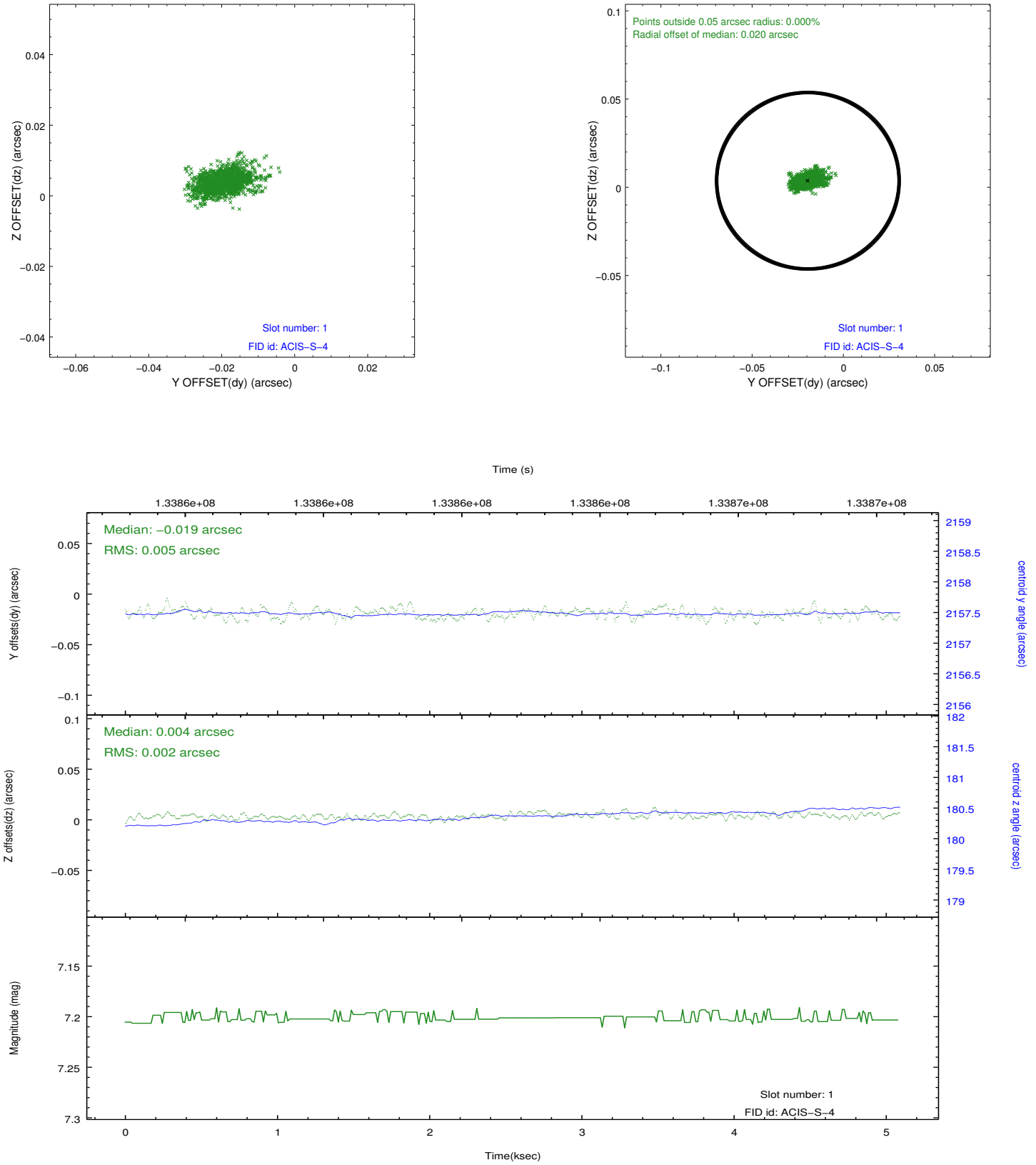


2.5 FID Slots

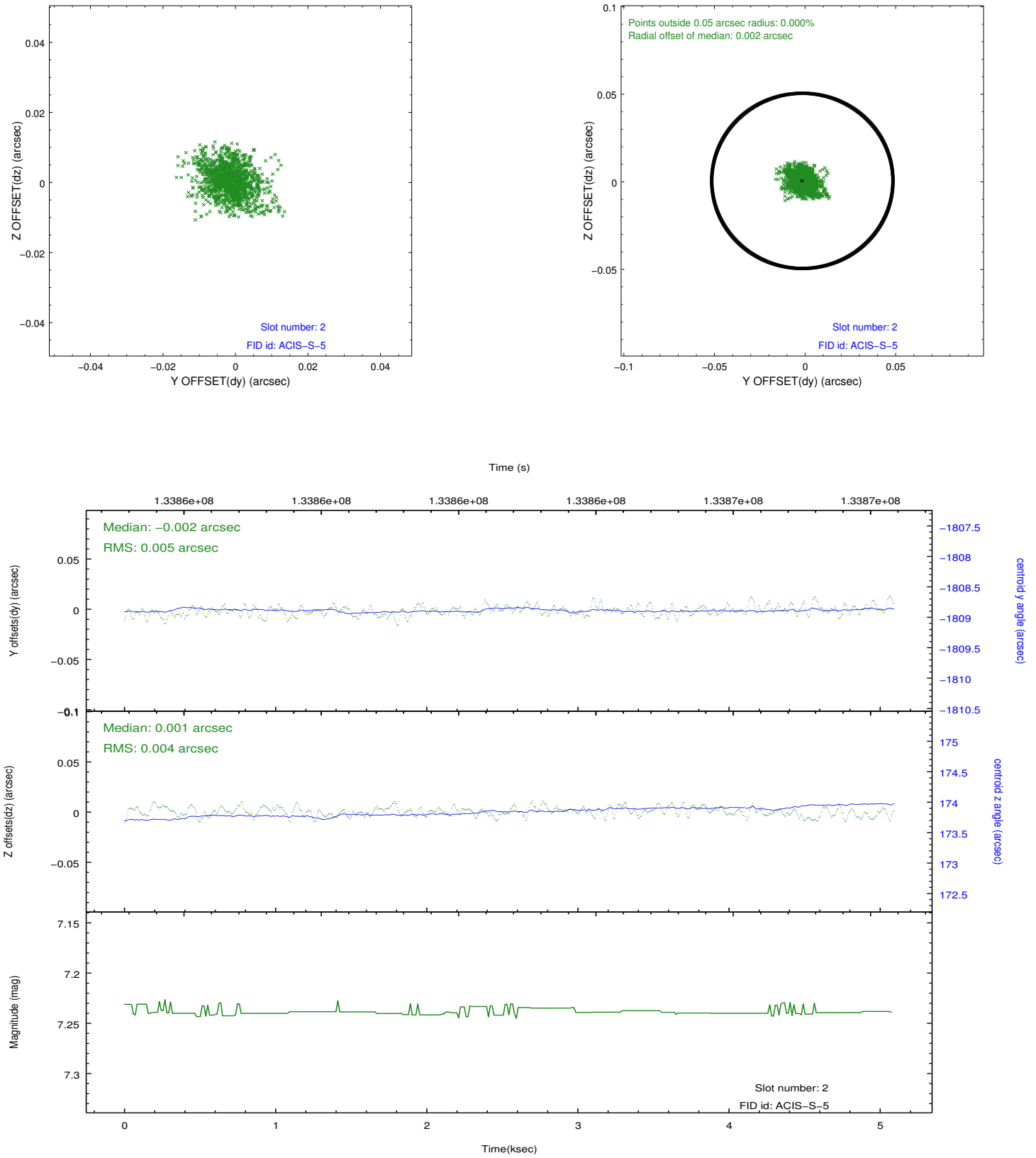
2.5.1 Slot 0



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)	2012.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.088

A.2 Comments