

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 6136 - L2 Version 4
Chandra X-Ray Center

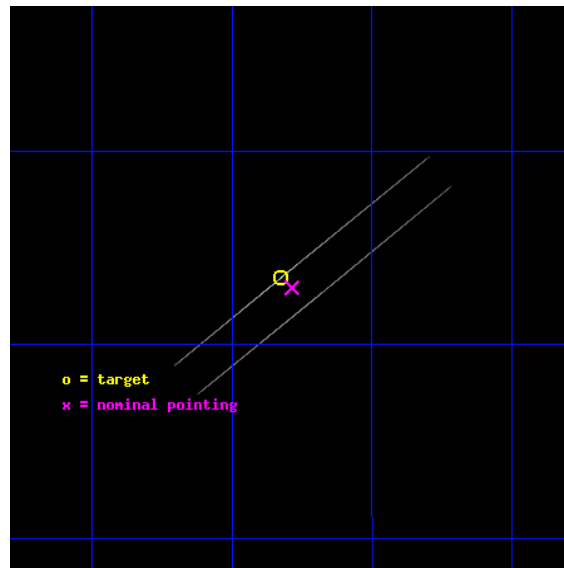
L2 Processing Date : Dec 22 2012

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1 Front

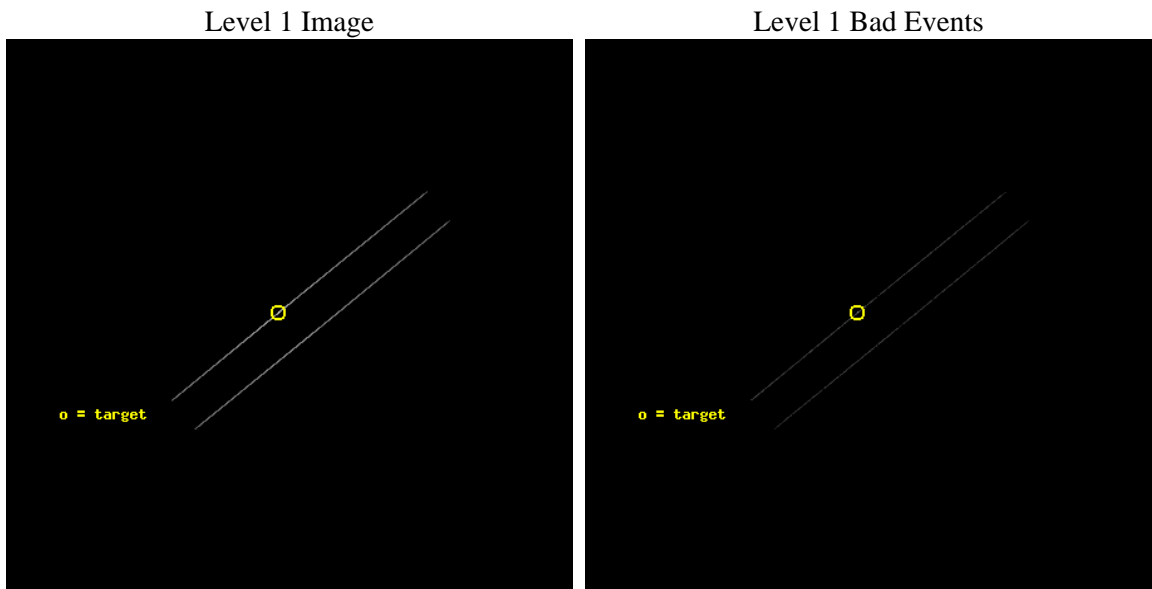
seq_num	800539	Sequence number
obs_id	6136	Observation id
title	The History of AGN Activity in M87 and the Interaction of Nuclear Outbursts with the Surrounding Atmosphere	Proposal title
observer	Dr. william forman	Principal investigator
object	M87	Source name
ra_targ	187.70625	Observer's specified target RA [deg]
dec_targ	12.391111	Observer's specified target Dec [deg]
ra_nom	187.69664429038	Nominal RA [deg]
dec_nom	12.382386494338	Nominal Dec [deg]
roll_nom	231.02409574611	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3976.5	Sum of GTIs [s]
livetime	3960.966796875	Livetime [s]
ontime0	3976.5	Sum of GTIs [s]
ontime1	3976.5	Sum of GTIs [s]
ontime2	3976.5	Sum of GTIs [s]
ontime3	3976.5	Sum of GTIs [s]
l2events	173314	Number of level 2 events



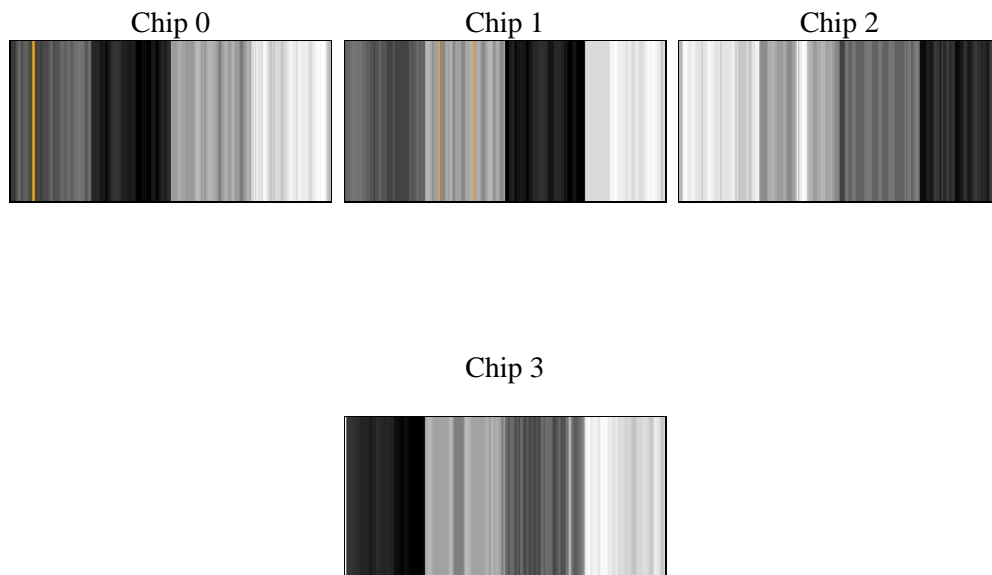
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3828.052000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	3976.5	Sum of GTIs [s]
caldsver	4.5.5	 	ontime0	3976.5	Sum of GTIs [s]
date	2012-12-23T02:37:03	Date and time of file creation	ontime1	3976.5	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	3976.5	Sum of GTIs [s]
			ontime3	3976.5	Sum of GTIs [s]
			l1events	187169	Number of level 1 events

2.1.4 Events

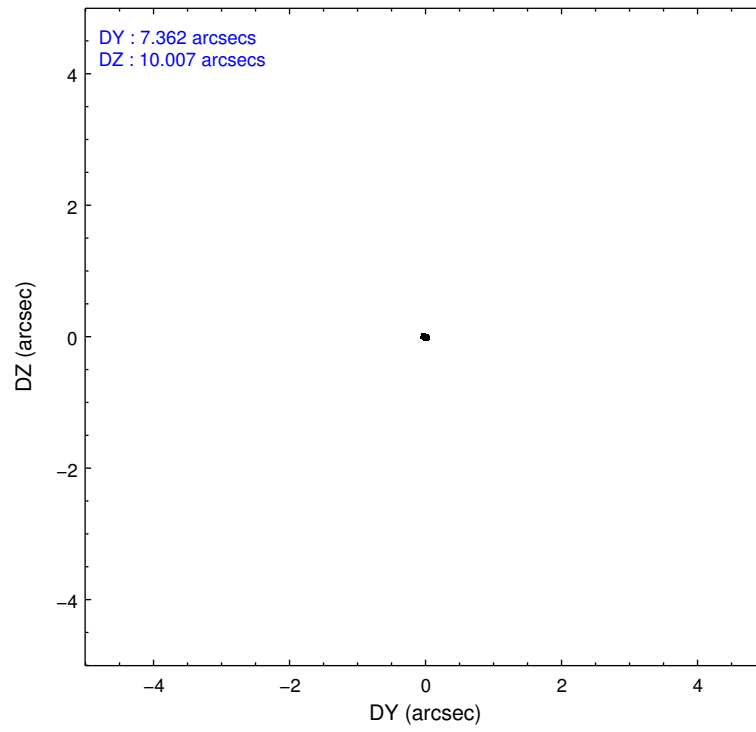
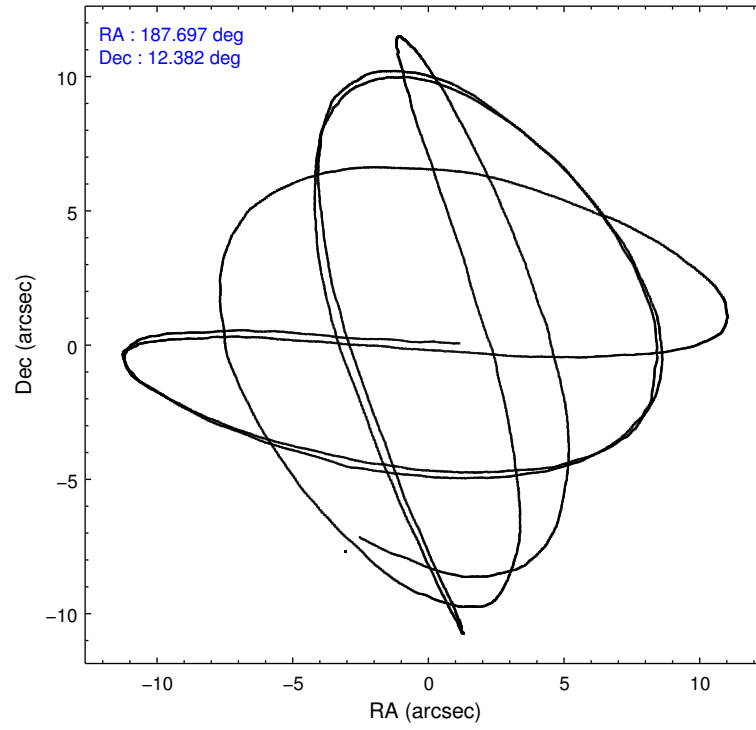
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	23572	30953	39277	93367
rejected events	1072	1188	1080	1689
rejected %	4%	3%	2%	1%

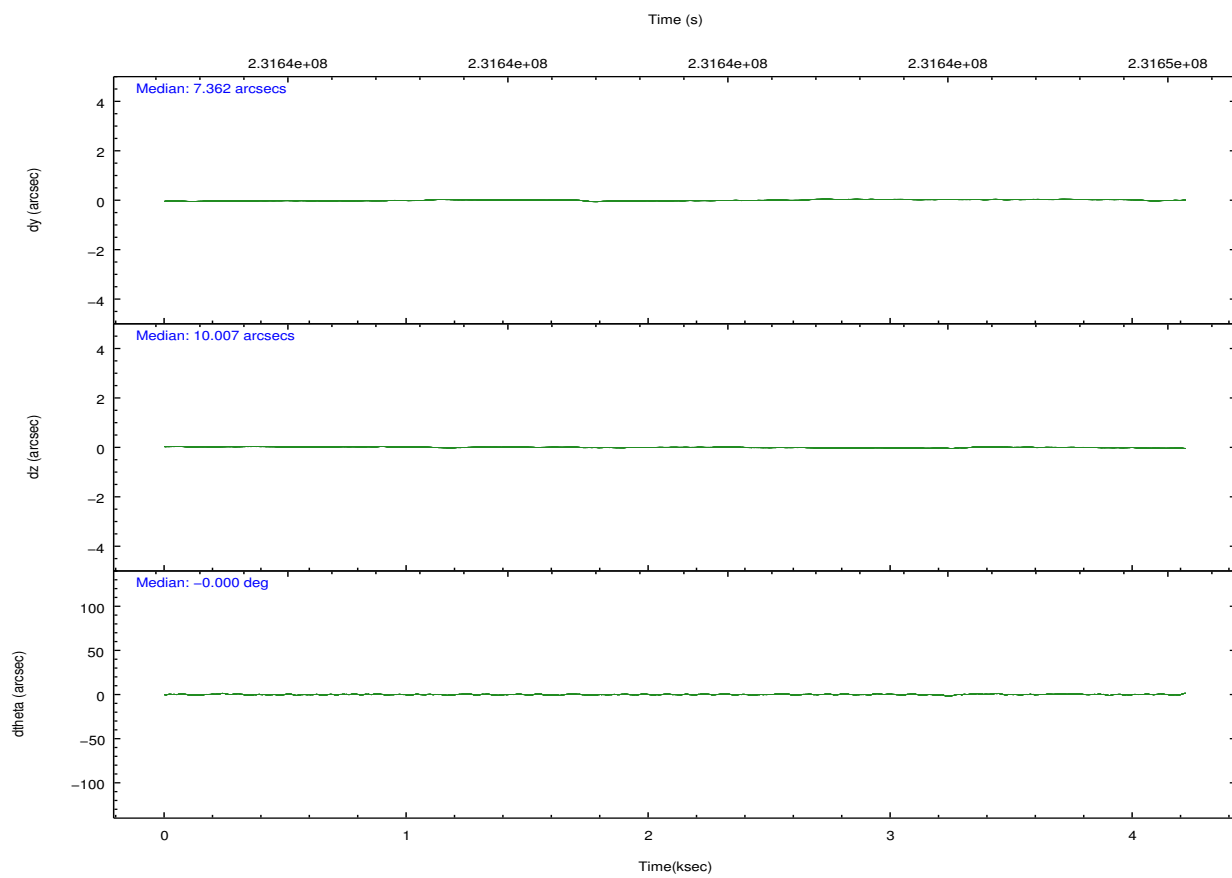
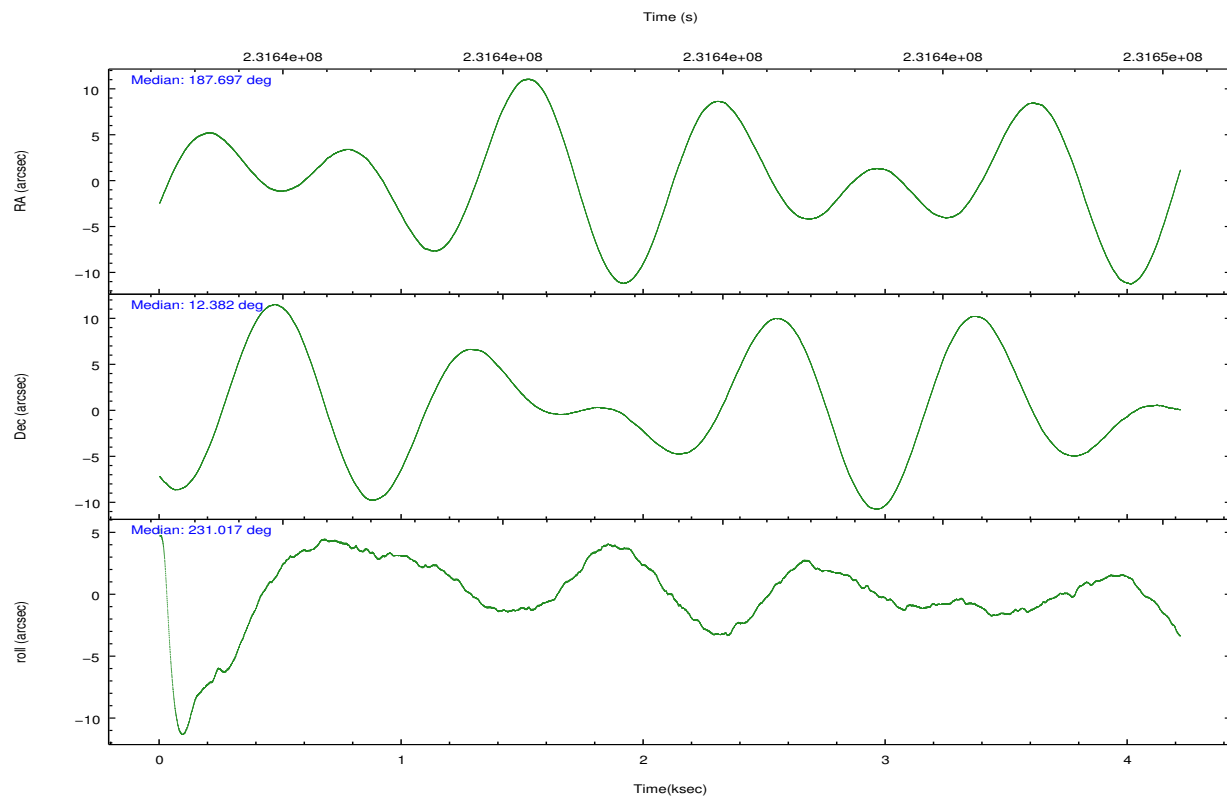
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	4118	5467	4866	7227
	17%	17%	12%	7%
grade 1 events	29	32	34	44
	0%	0%	0%	0%
grade 2 events	15161	20618	29484	77702
	64%	66%	75%	83%
grade 3 events	746	718	677	968
	3%	2%	1%	1%
grade 4 events	741	714	701	871
	3%	2%	1%	0%
grade 5 events	1028	1123	1027	1584
	4%	3%	2%	1%
grade 6 events	1749	2278	2488	4971
	7%	7%	6%	5%
grade 7 events	0	3	0	0
	0%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	187.700928	187.6966442903768	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.409538	12.38238649433768	Alternating exposures requested	N	N
[deg] Pointing Roll	230.814479	231.0240957461077	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-231.592463	-231.5960967419932			
[mm] SIM translation stage offset	-2	-1.996356260936523			
[s] Observation start time (MET)	231642041.184000	231641458.99748			
Observation start date	2005-05-05T00:59:37	2005-05-05T00:50:58			
[s] Observation end time (MET)	231645869.184000	231646105.32269			
Observation end date	2005-05-05T02:03:25	2005-05-05T02:08:25			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



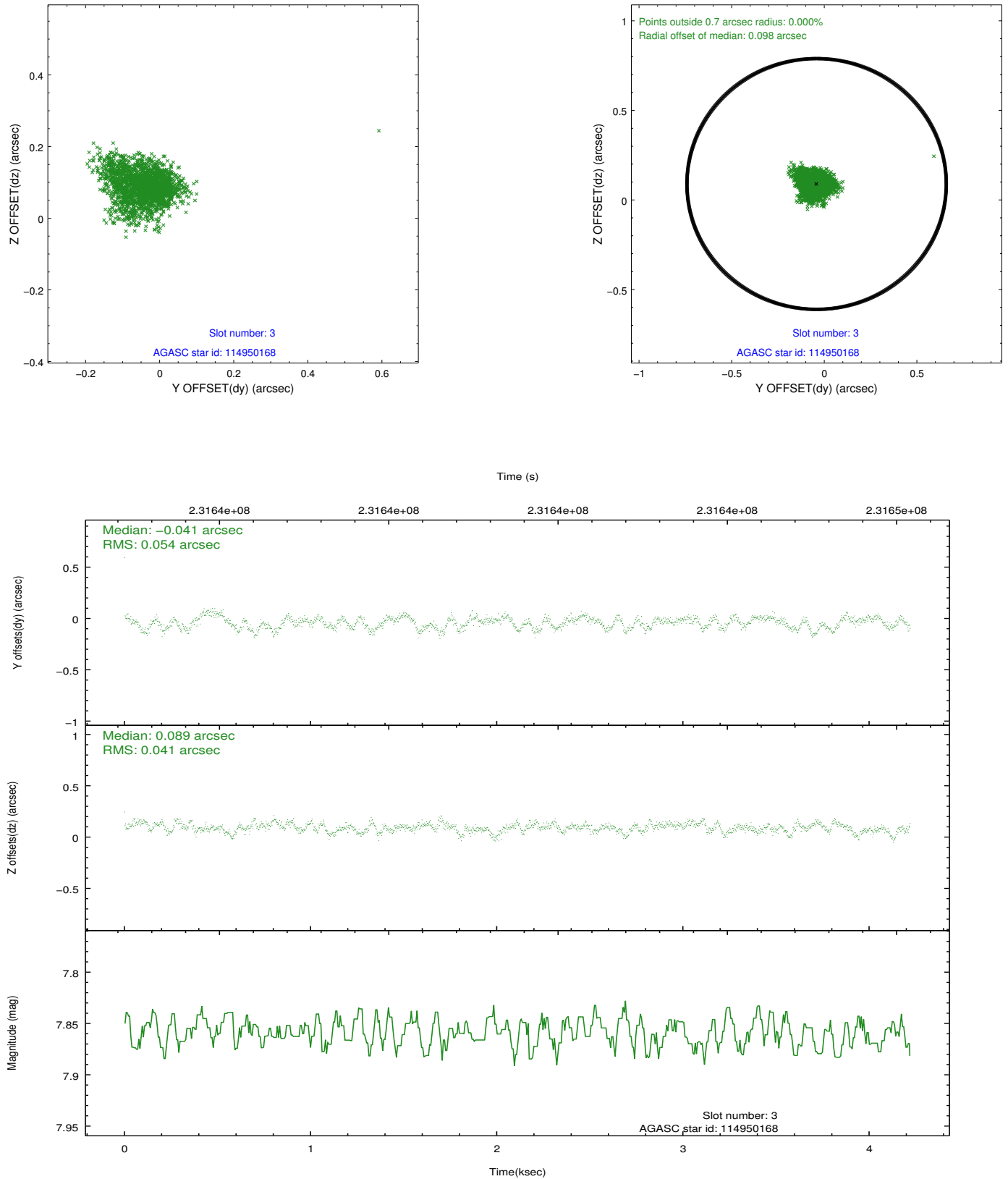


Slot Statistics

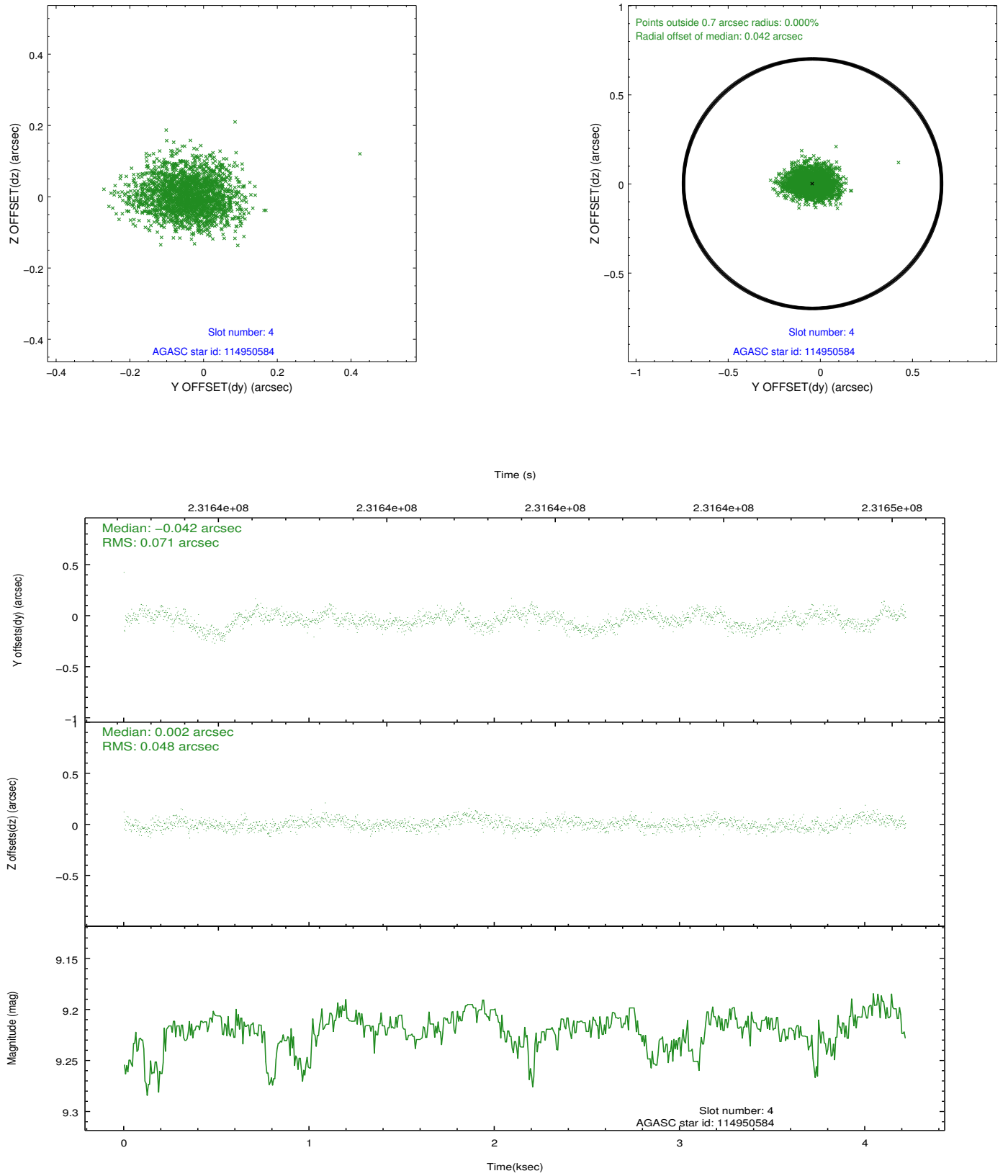
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1029	0.037	-0.022	0.006	0.011	0.000000	0.000000	932.28	-874.43
1	FID	ACIS-I-5	7.23	1029	-0.194	0.043	0.006	0.011	0.000000	0.000000	-1815.18	1022.43
2	FID	ACIS-I-6	7.25	1029	0.066	0.050	0.007	0.011	0.000000	0.000000	396.33	1668.55
3	GUIDE	114950168	7.86	2059	-0.041	0.089	0.071	0.116	187.143398	12.117441	2053.66	-857.69
4	GUIDE	114950584	9.22	2058	-0.042	0.002	0.092	0.149	187.487323	11.827248	2101.27	740.52
5	GUIDE	114952824	8.58	2059	-0.017	0.117	0.062	0.101	187.703904	12.486727	-220.69	-167.31
6	GUIDE	114954440	9.20	2057	0.079	-0.097	0.097	0.156	186.915066	12.219118	2275.38	-1712.25
7	GUIDE	114955056	8.31	2057	0.025	-0.110	0.072	0.115	187.914001	12.127854	313.07	1220.70

2.4 Star Slots

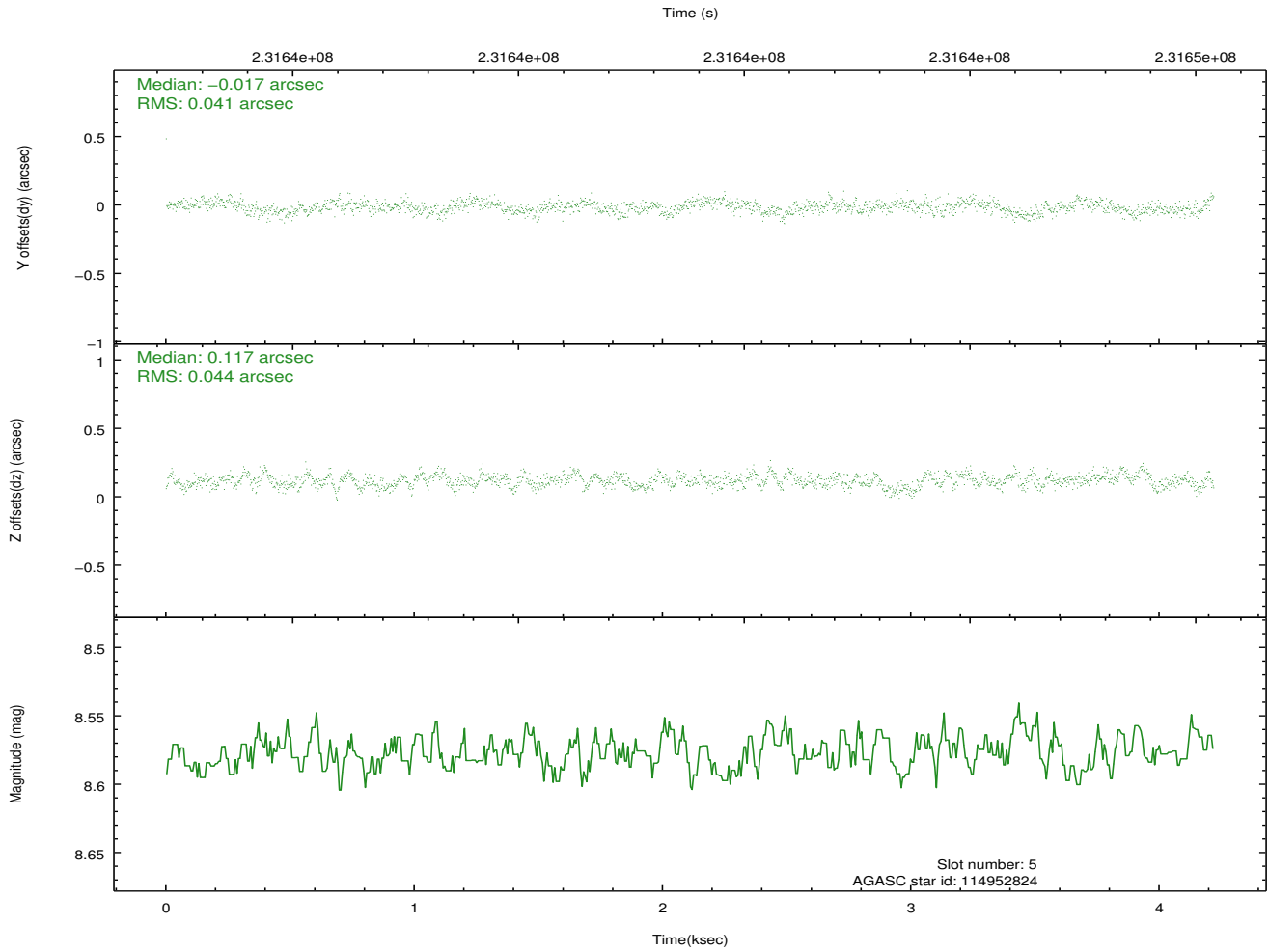
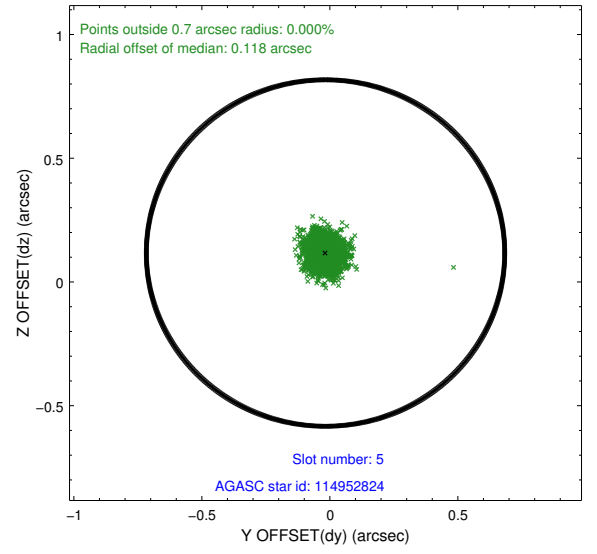
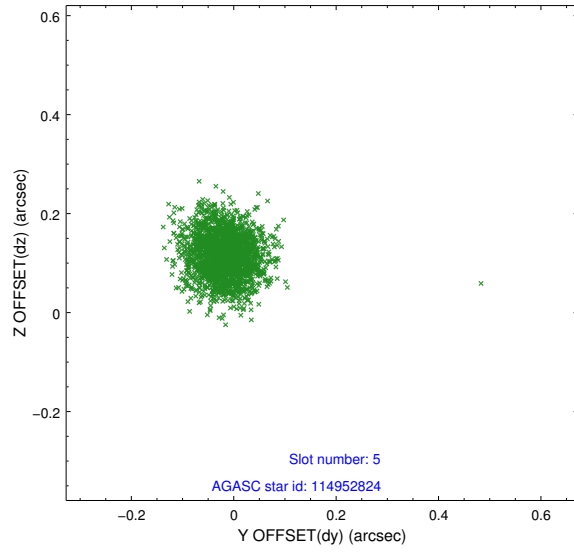
2.4.1 Slot 3



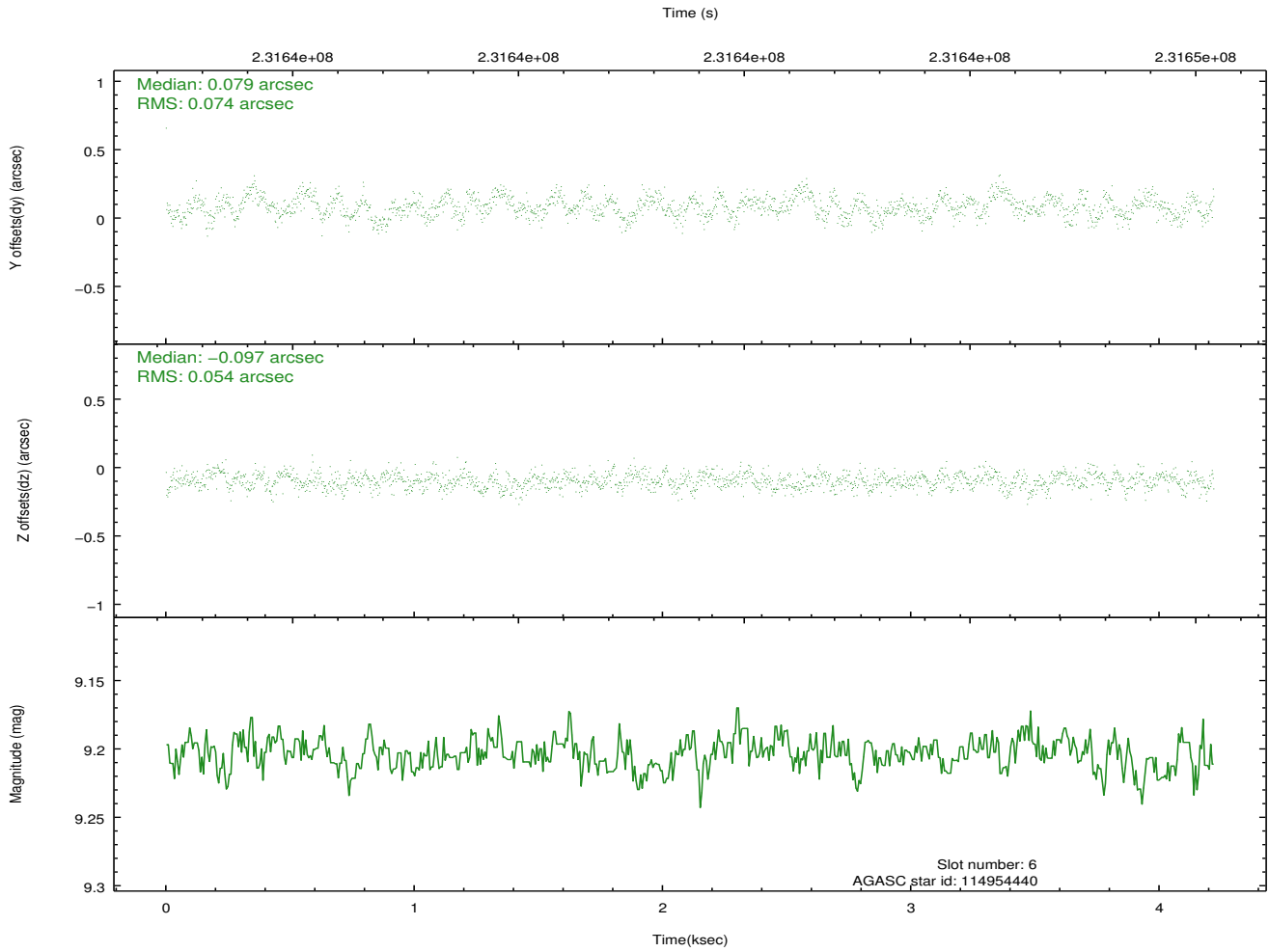
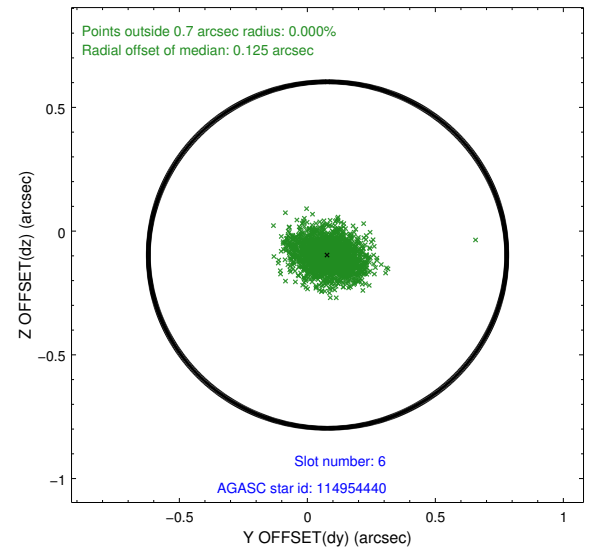
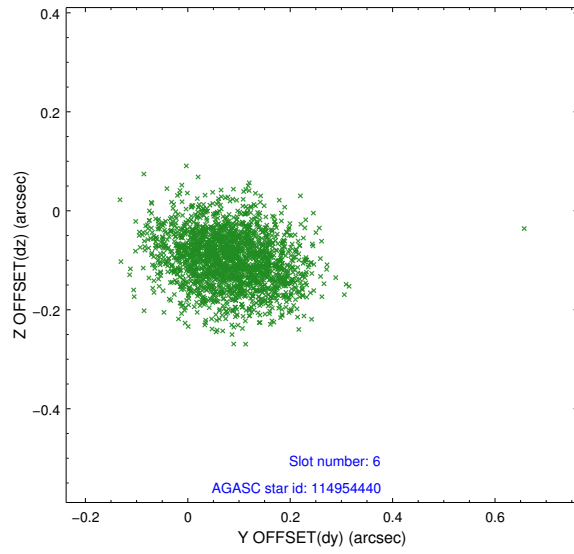
2.4.2 Slot 4



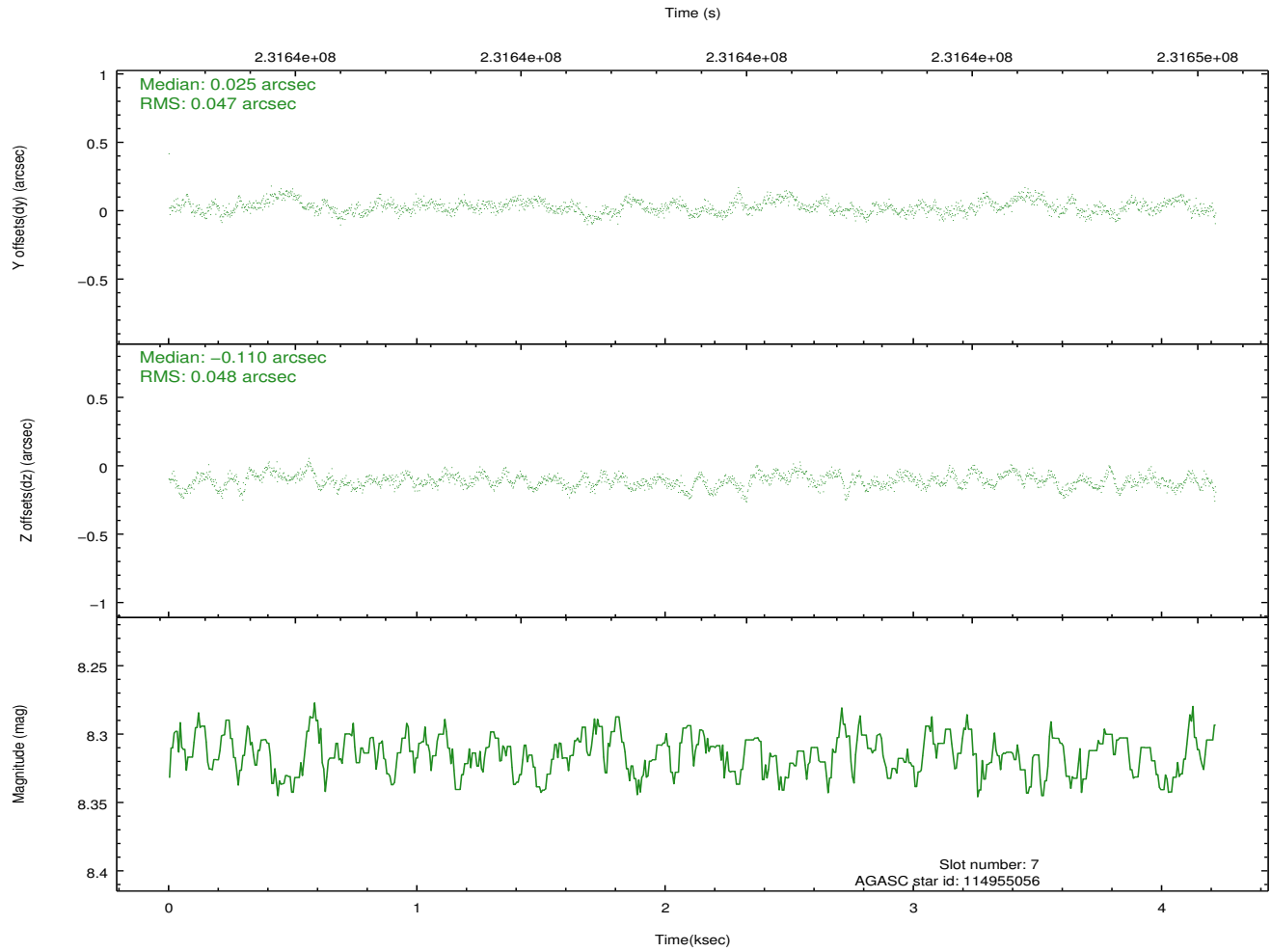
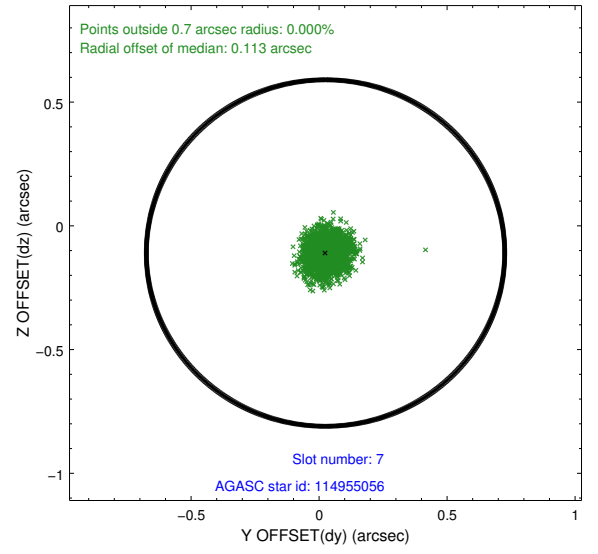
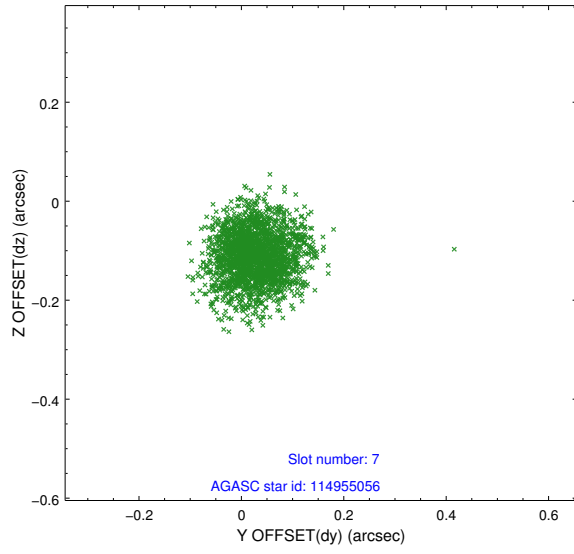
2.4.3 Slot 5



2.4.4 Slot 6

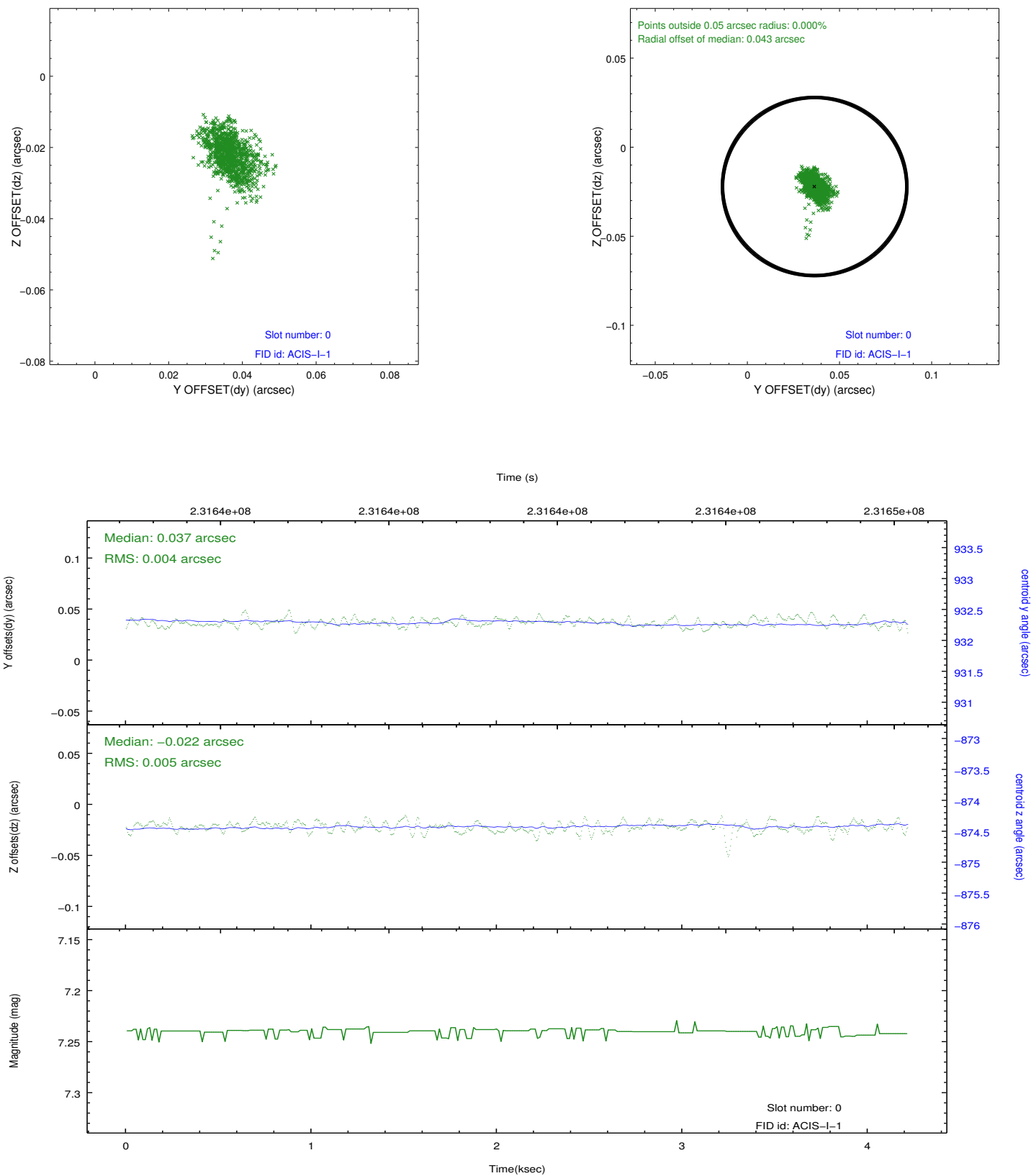


2.4.5 Slot 7

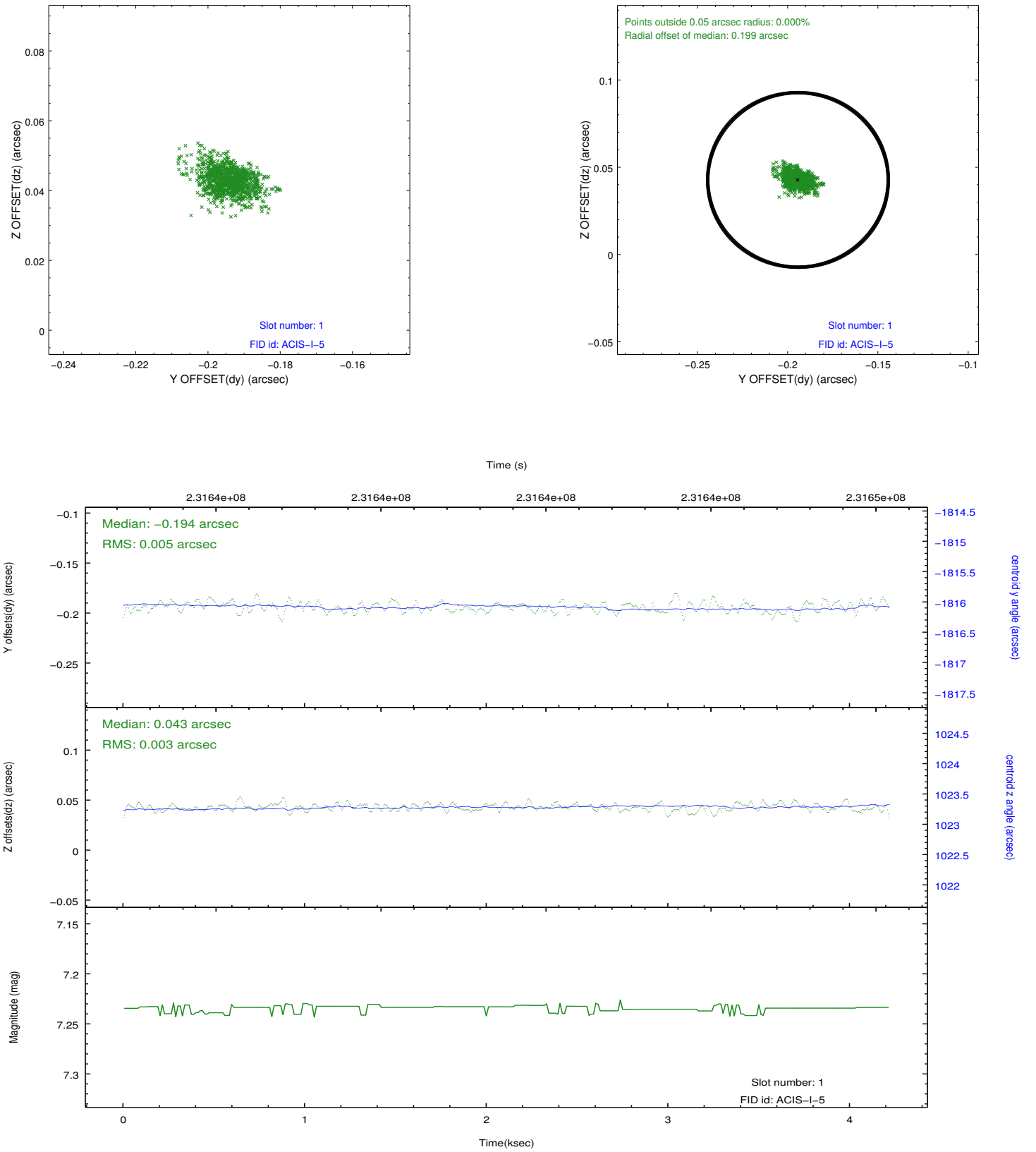


2.5 FID Slots

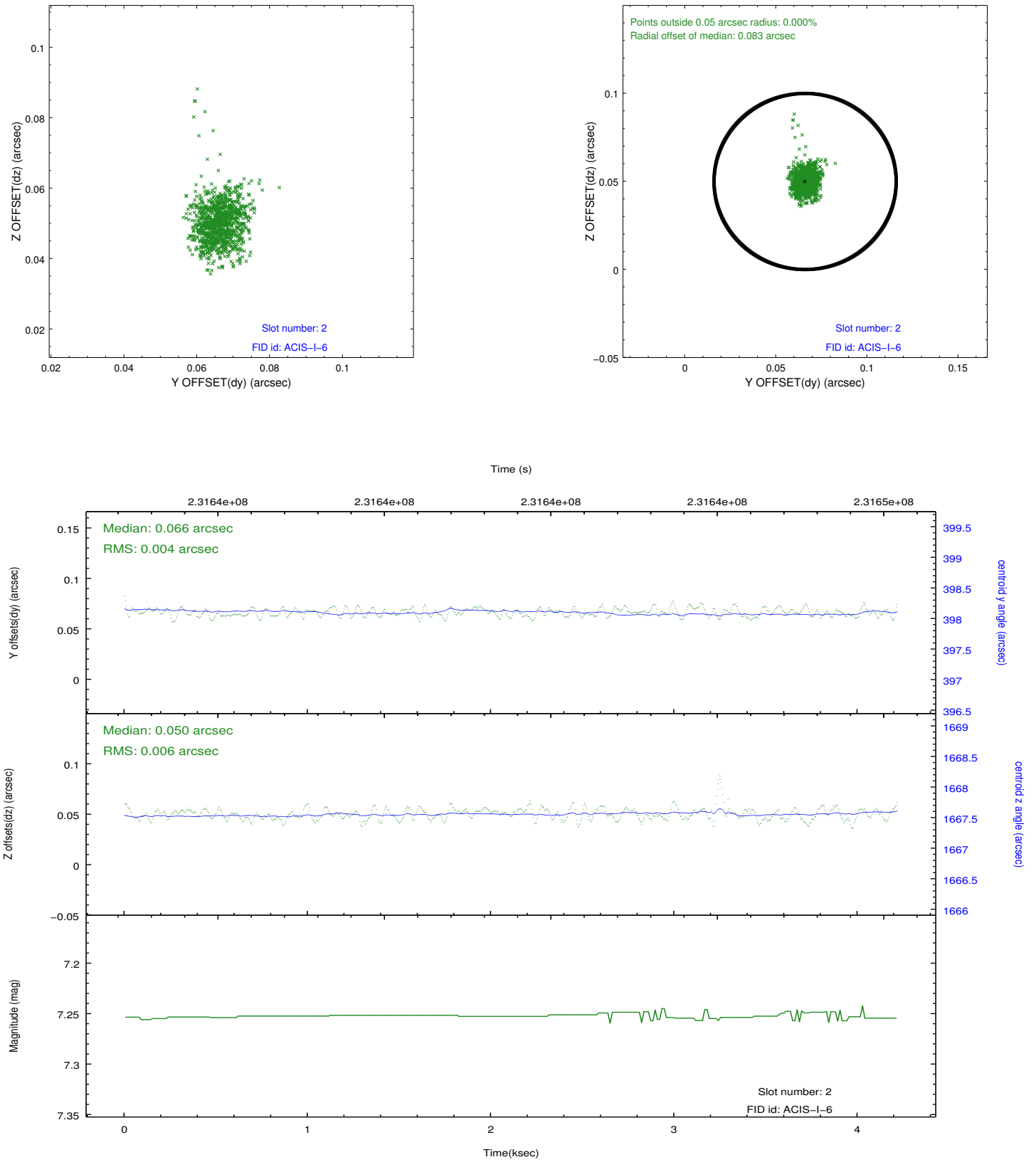
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.9765

A.2 Comments