

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 6137 - L2 Version 3
Chandra X-Ray Center

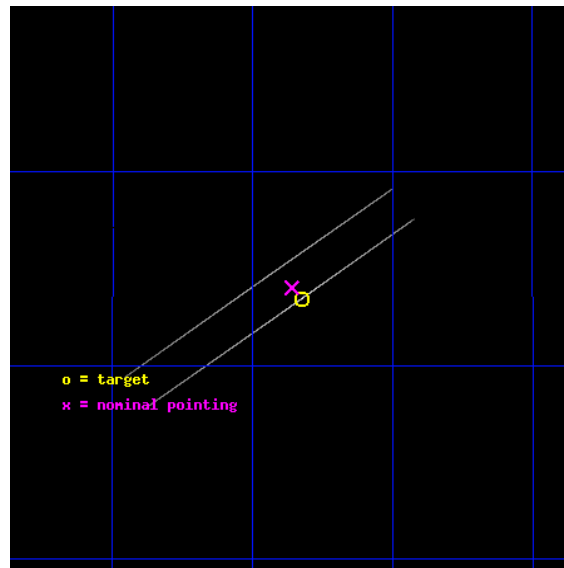
L2 Processing Date : Mar 16 2012

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1 Front

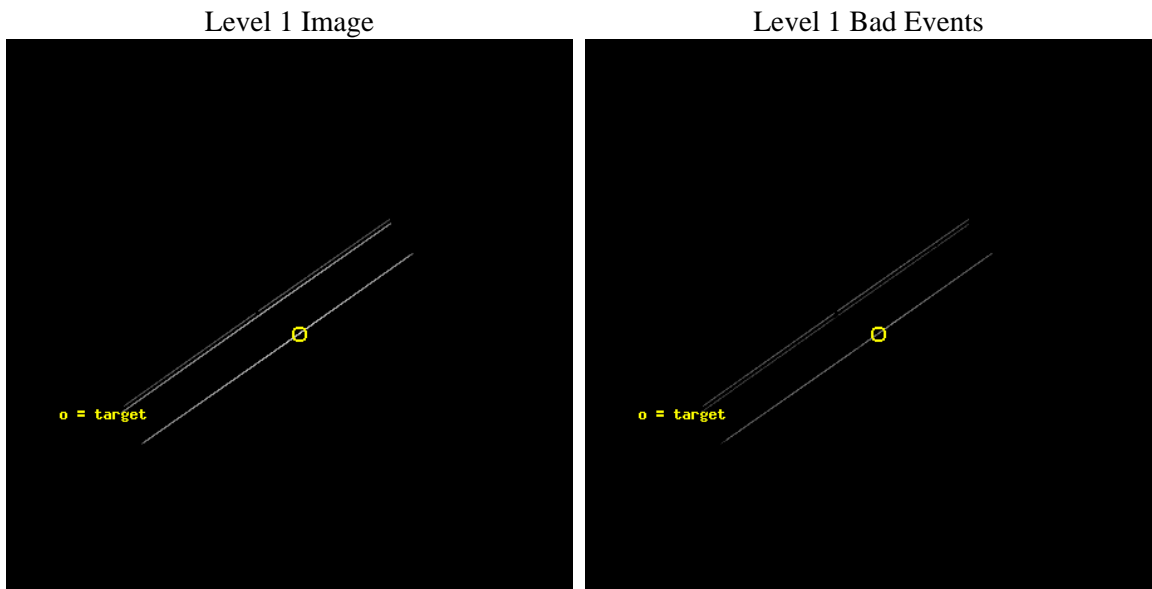
seq_num	800539	Sequence number
obs_id	6137	Observation id
title	The History of AGN Activity in M87 and the Interaction of Nuclear Outbursts with the Surrounding Atmosphere	Proposal title
observer	Dr William Forman	Principal investigator
object	M87	Source name
ra_targ	187.70625	Observer's specified target RA [deg]
dec_targ	12.391111	Observer's specified target Dec [deg]
ra_nom	187.71501506993	Nominal RA [deg]
dec_nom	12.400345834568	Nominal Dec [deg]
roll_nom	55.206804821003	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4525.5	Sum of GTIs [s]
livetime	4507.822265625	Livetime [s]
ontime0	4525.5	Sum of GTIs [s]
ontime1	4525.5	Sum of GTIs [s]
ontime2	4525.5	Sum of GTIs [s]
ontime3	4525.5	Sum of GTIs [s]
l2events	171146	Number of level 2 events



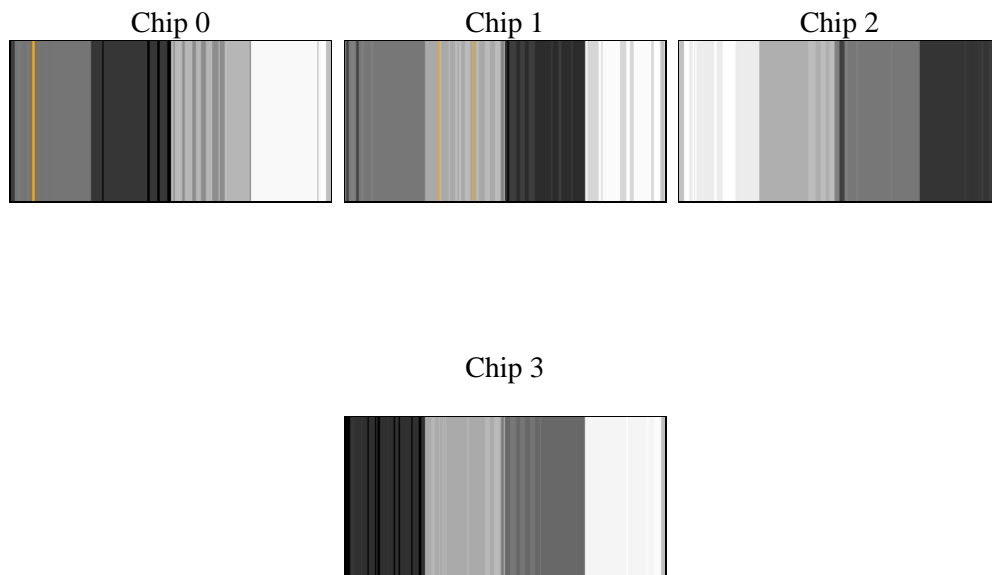
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	4525.5	Sum of GTIs [s]
caldsver	4.4.8	 	ontime0	4525.5	Sum of GTIs [s]
date	2012-03-17T00:53:10	Date and time of file creation	ontime1	4525.5	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4525.5	Sum of GTIs [s]
			ontime3	4525.5	Sum of GTIs [s]
			l1events	199806	Number of level 1 events

2.1.4 Events

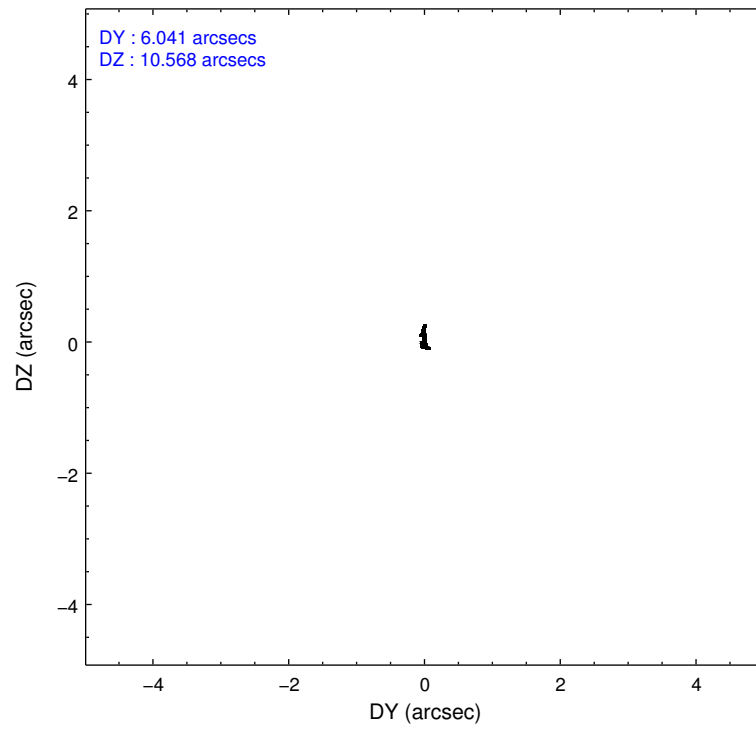
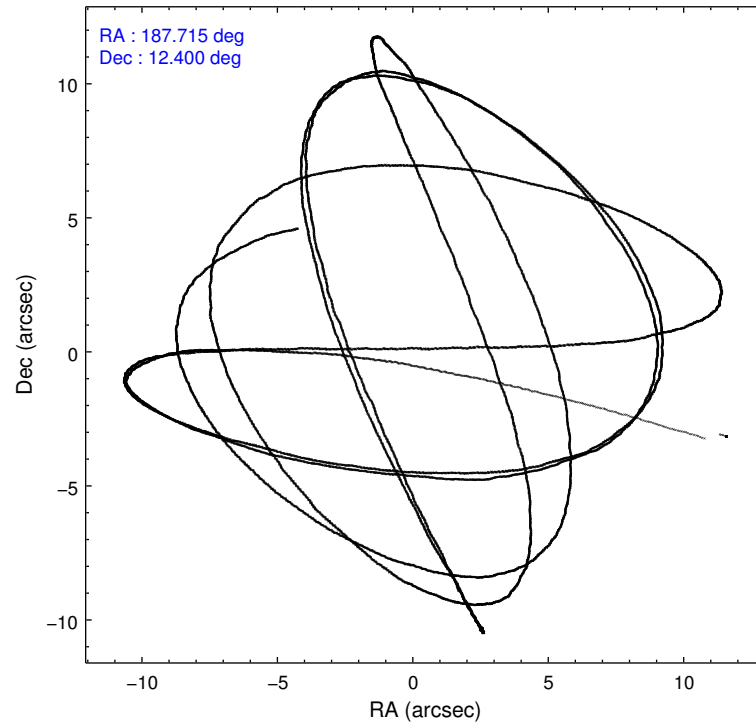
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	29561	39824	41107	89314
rejected events	3776	4594	4013	6514
rejected %	12%	11%	9%	7%

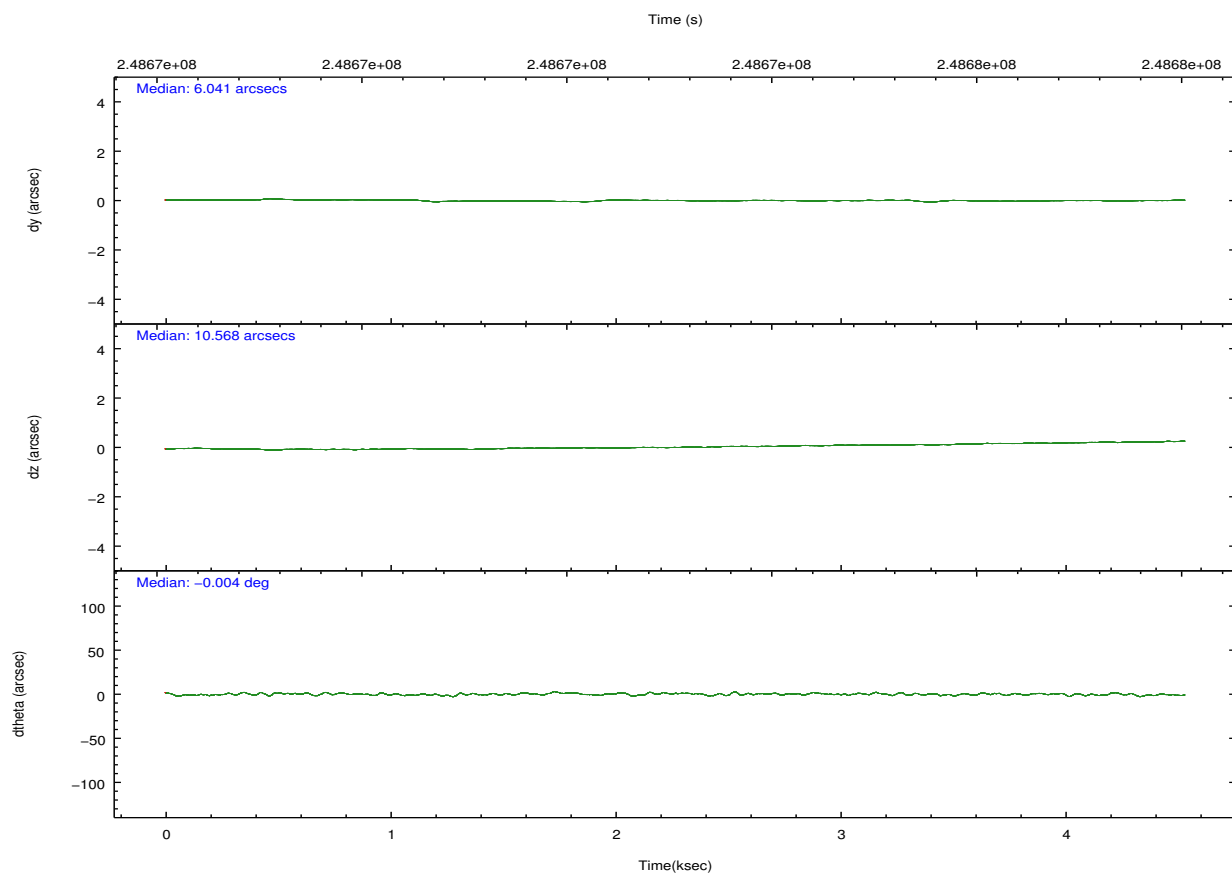
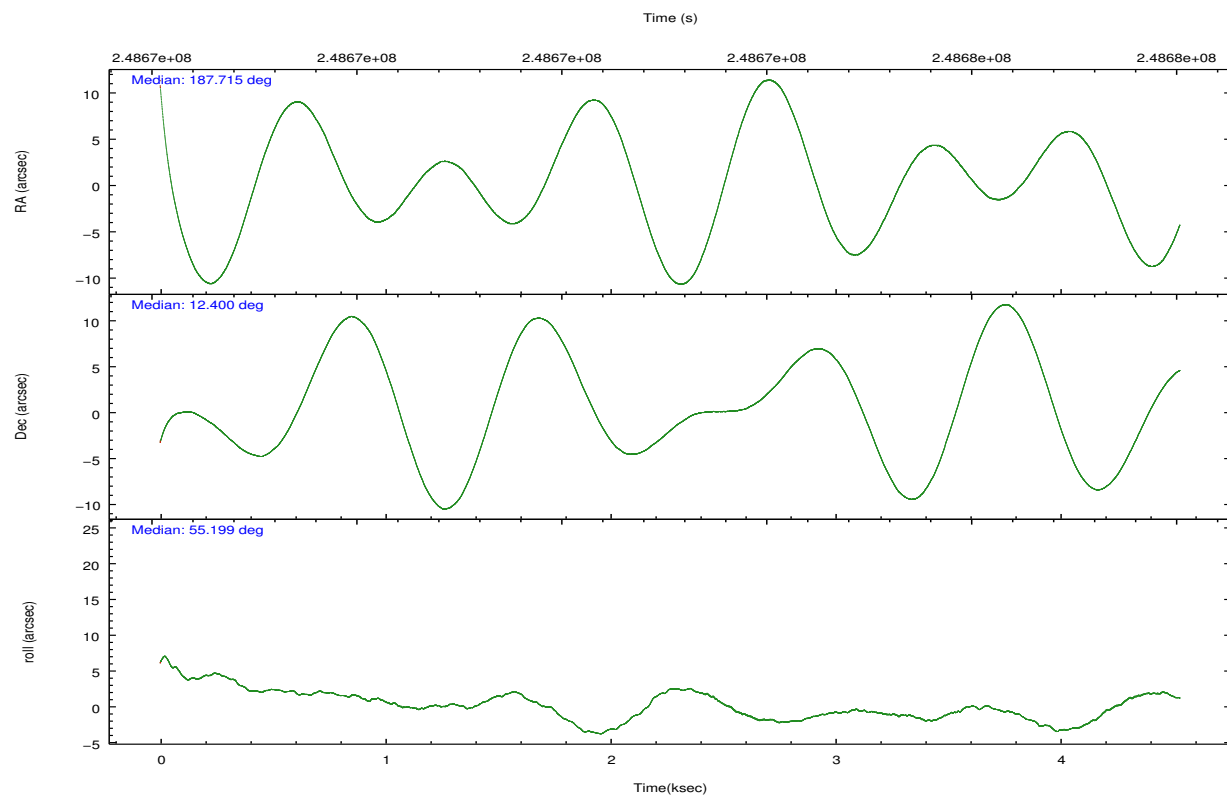
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	4757	6854	5870	8720
	16%	17%	14%	9%
grade 1 events	47	53	53	53
	0%	0%	0%	0%
grade 2 events	18892	26184	28839	71050
	63%	65%	70%	79%
grade 3 events	1225	1097	1188	1420
	4%	2%	2%	1%
grade 4 events	1046	1106	1135	1316
	3%	2%	2%	1%
grade 5 events	1429	1679	1398	1920
	4%	4%	3%	2%
grade 6 events	2165	2851	2624	4835
	7%	7%	6%	5%
grade 7 events	0	0	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	187.712927	187.715015069935	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.373119	12.40034583456823	Alternating exposures requested	N	N
[deg] Pointing Roll	54.998567	55.20680482100259	[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	-231.5986110572947			
[mm] SIM translation stage offset	-2	-1.993841945634955			
[s] Observation start time (MET)	248671392.184000	248670158.39065			
Observation start date	2005-11-18T03:22:08	2005-11-18T03:02:38			
[s] Observation end time (MET)	248675792.184000	248676054.19092			
Observation end date	2005-11-18T04:35:28	2005-11-18T04:40:54			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



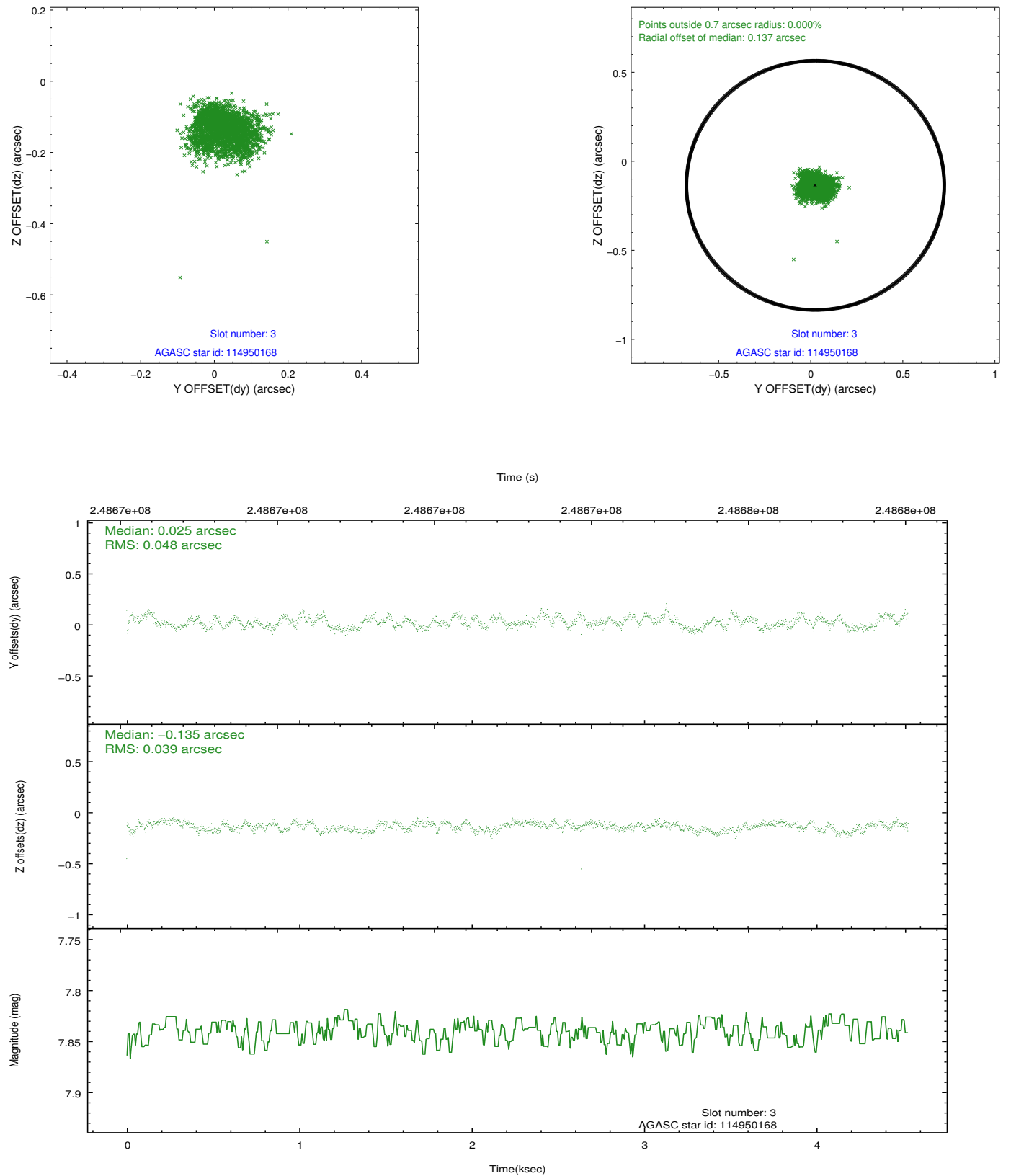


Slot Statistics

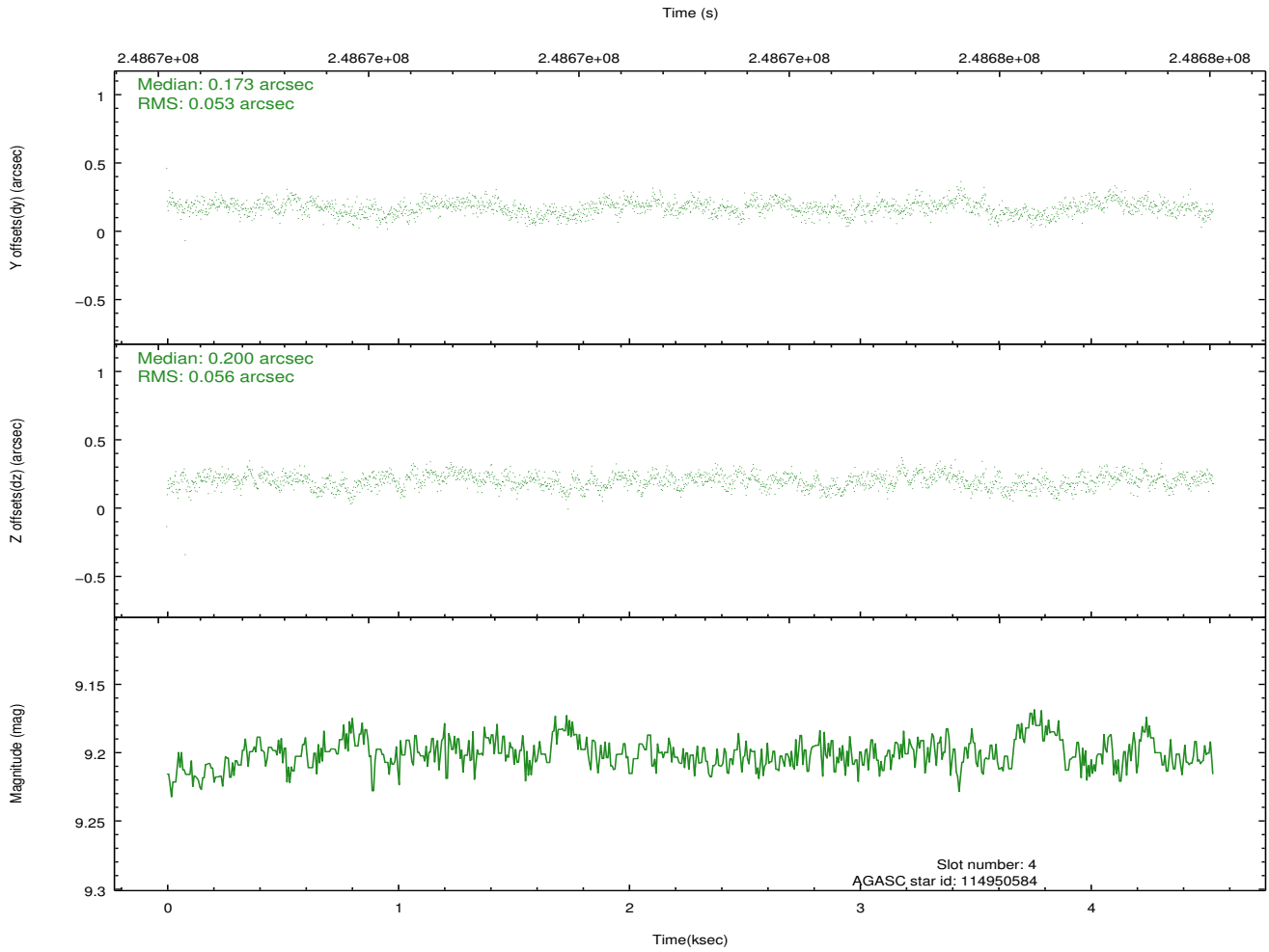
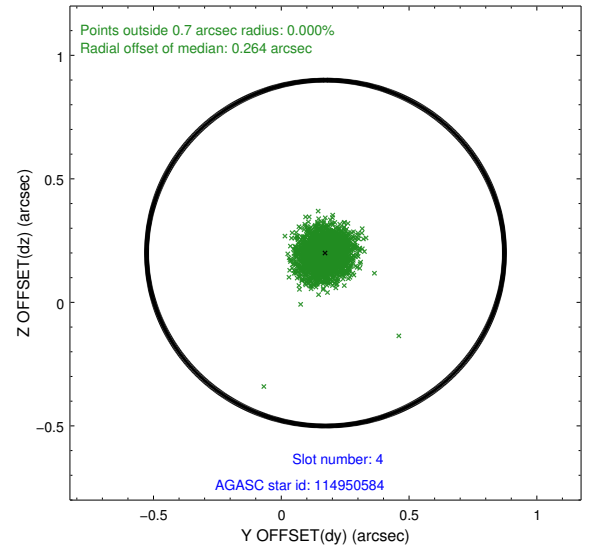
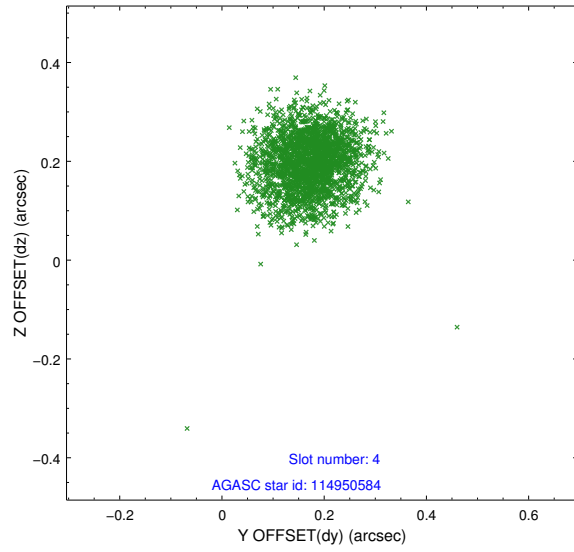
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1106	-0.028	-0.058	0.009	0.015	0.000000	0.000000	933.64	-874.97
1	FID	ACIS-I-2	7.16	1106	-0.137	-0.012	0.007	0.011	0.000000	0.000000	-759.91	-881.88
2	FID	ACIS-I-4	7.16	1106	0.067	0.137	0.007	0.013	0.000000	0.000000	2152.82	1024.61
3	GUIDE	114950168	7.84	2212	0.025	-0.135	0.067	0.101	187.143398	12.117441	-1901.57	1114.99
4	GUIDE	114950584	9.20	2210	0.173	0.200	0.081	0.129	187.487323	11.827248	-2065.48	-475.18
5	GUIDE	114952824	8.57	2212	-0.187	-0.117	0.064	0.103	187.703904	12.486727	316.24	260.55
6	GUIDE	114954440	9.20	2212	0.125	-0.277	0.094	0.160	186.915066	12.219118	-2060.06	1983.11
7	GUIDE	114955056	8.33	2211	-0.131	0.331	0.064	0.104	187.914001	12.127854	-317.34	-1084.66

2.4 Star Slots

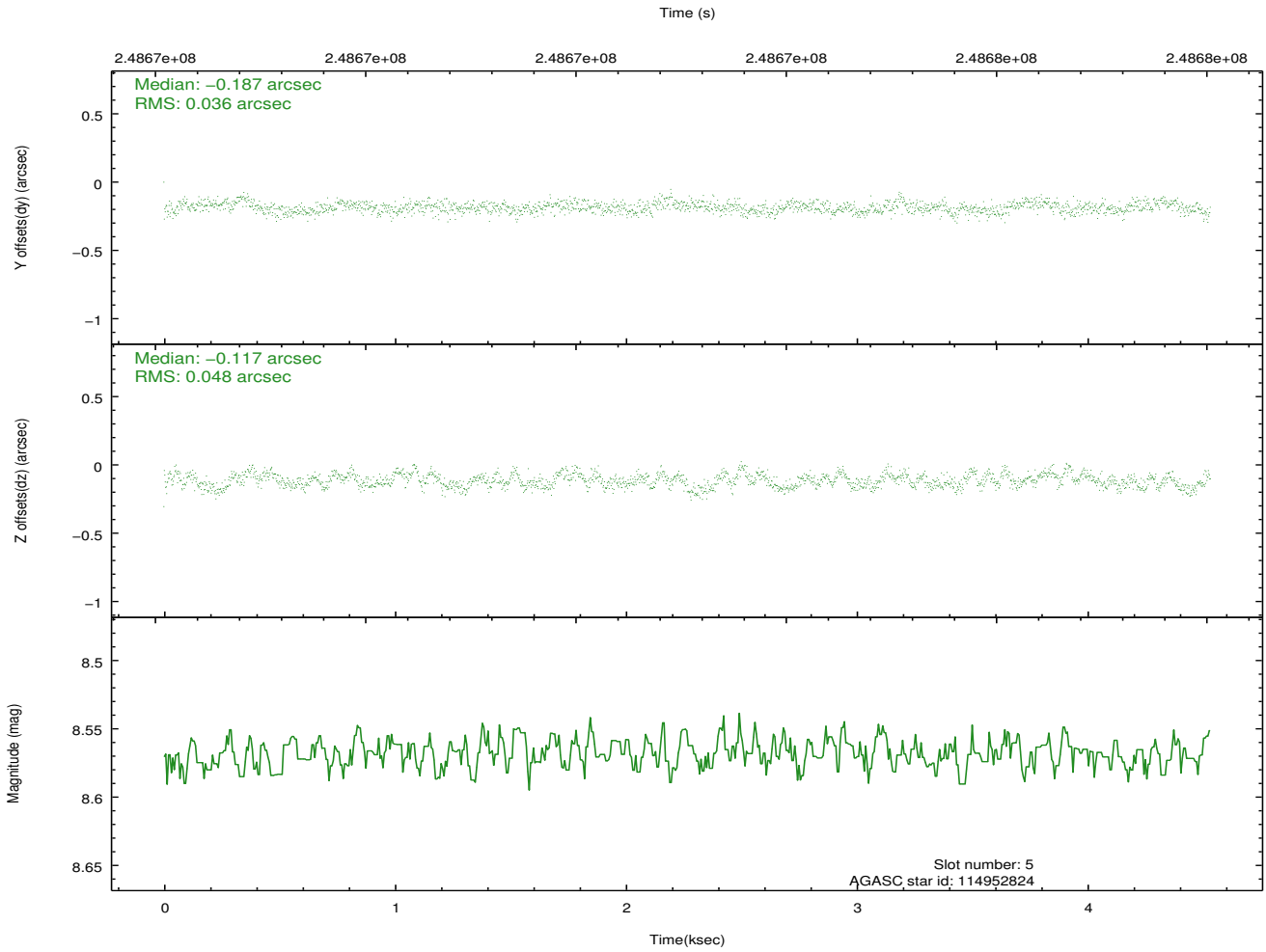
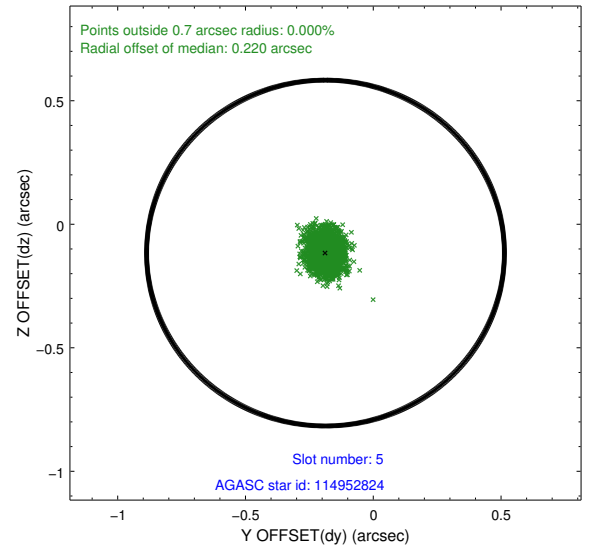
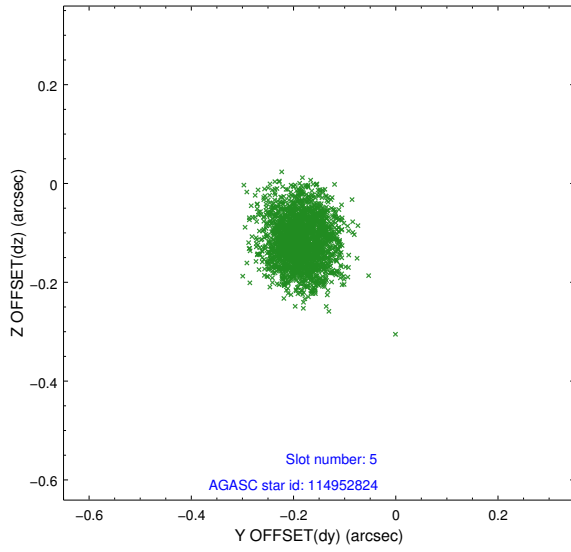
2.4.1 Slot 3



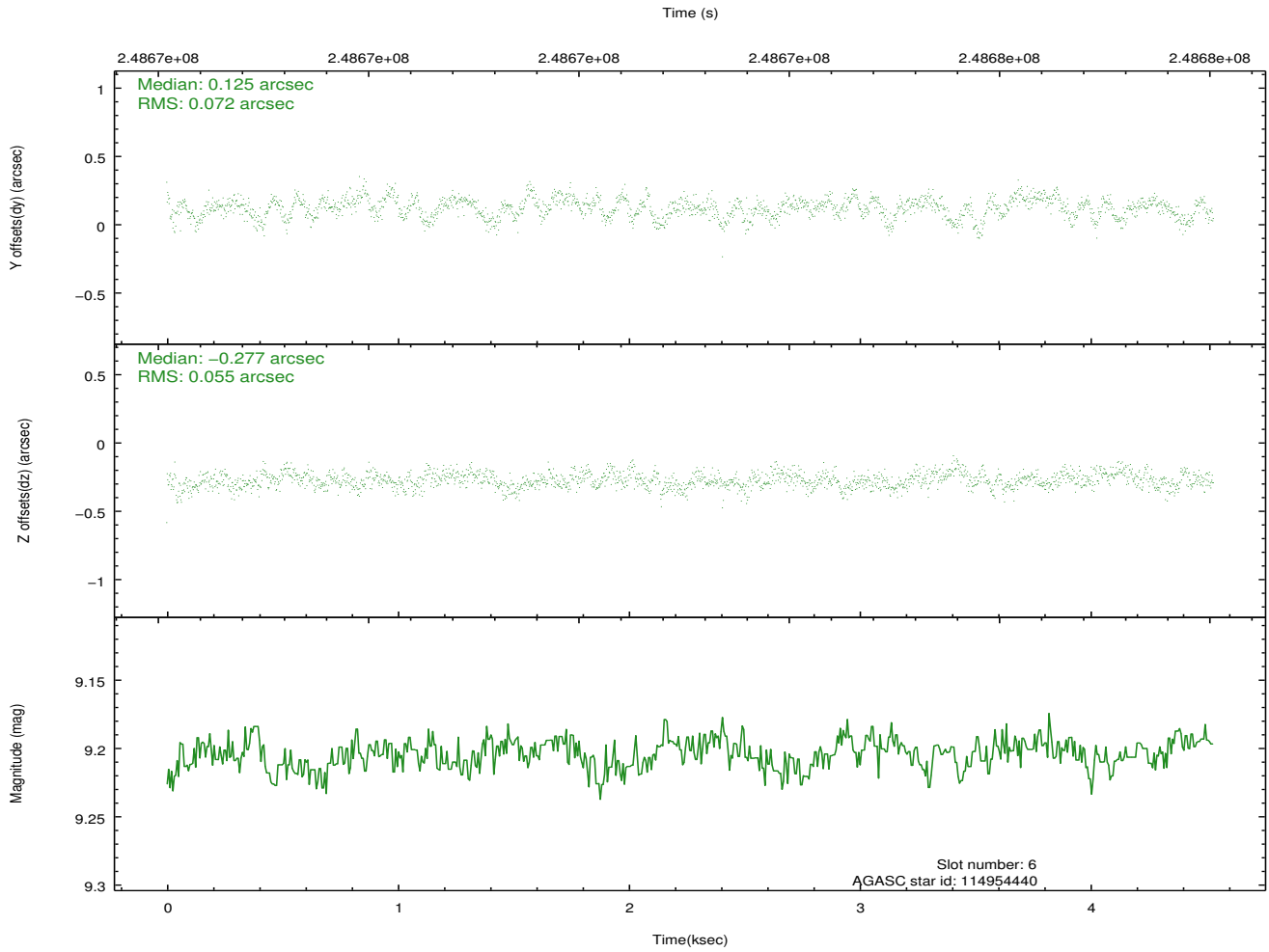
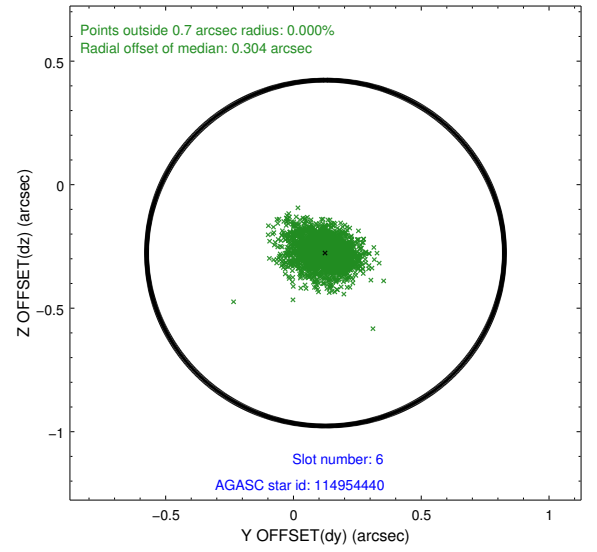
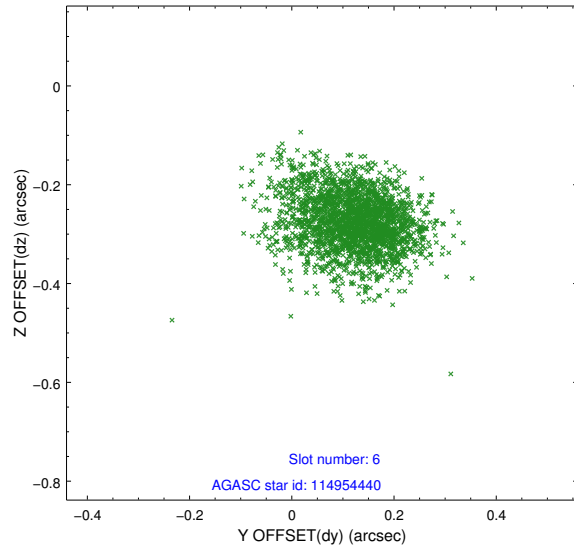
2.4.2 Slot 4



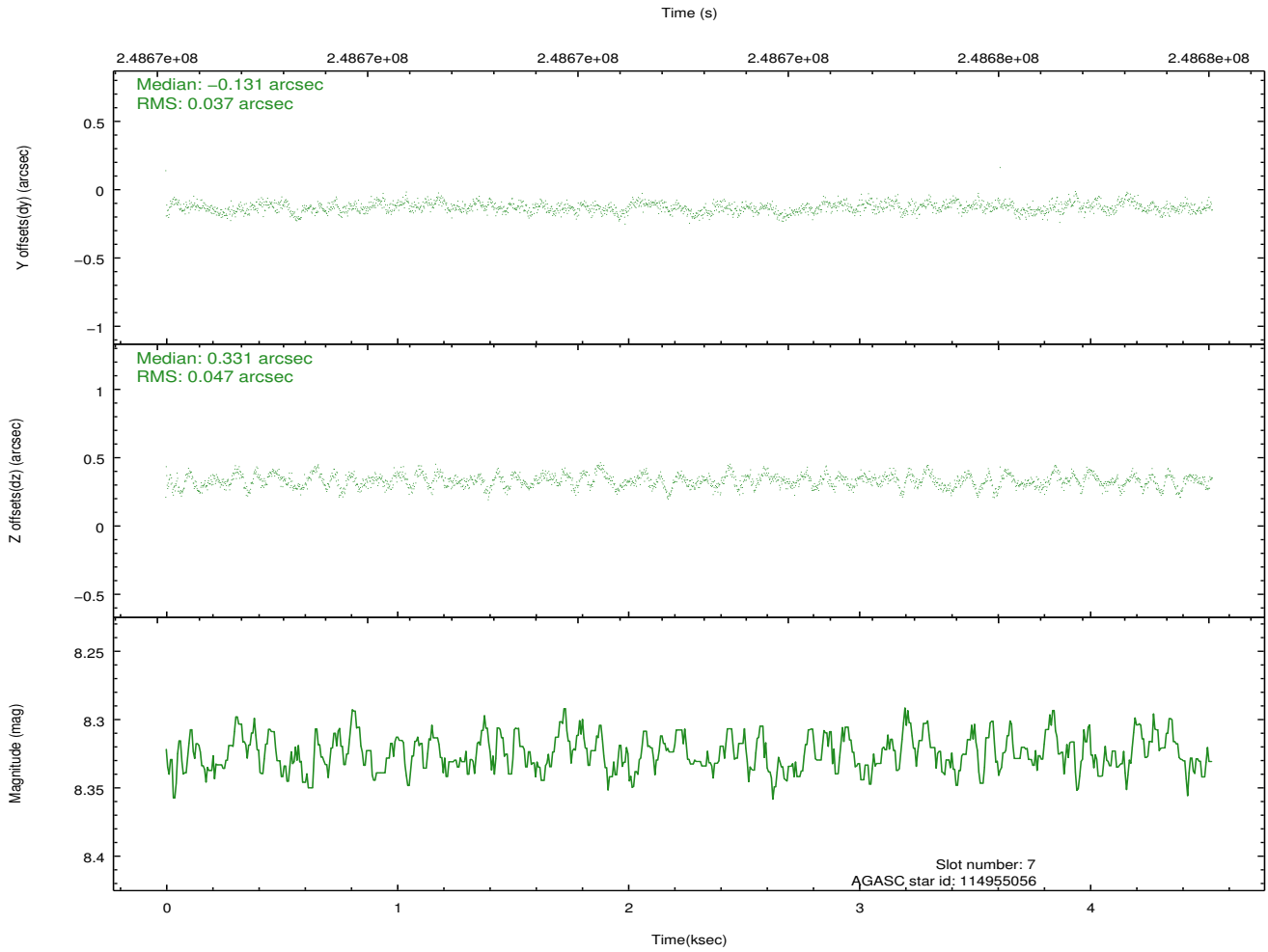
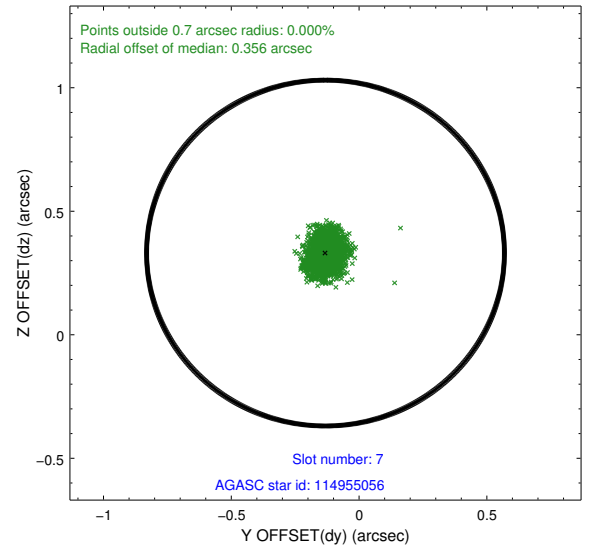
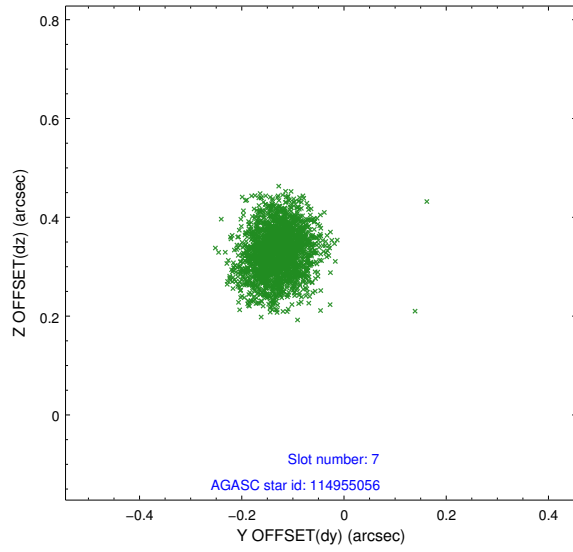
2.4.3 Slot 5



2.4.4 Slot 6

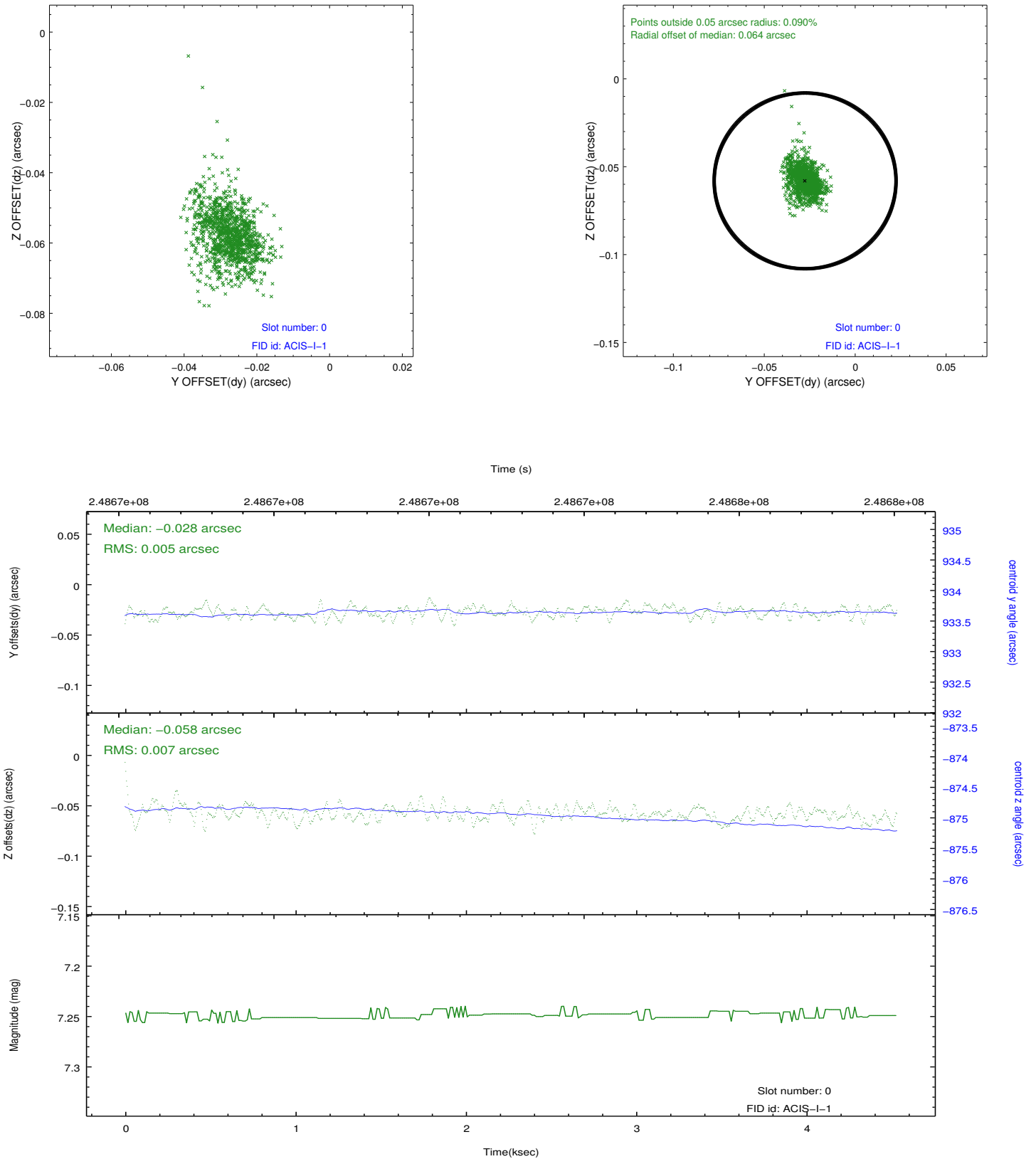


2.4.5 Slot 7

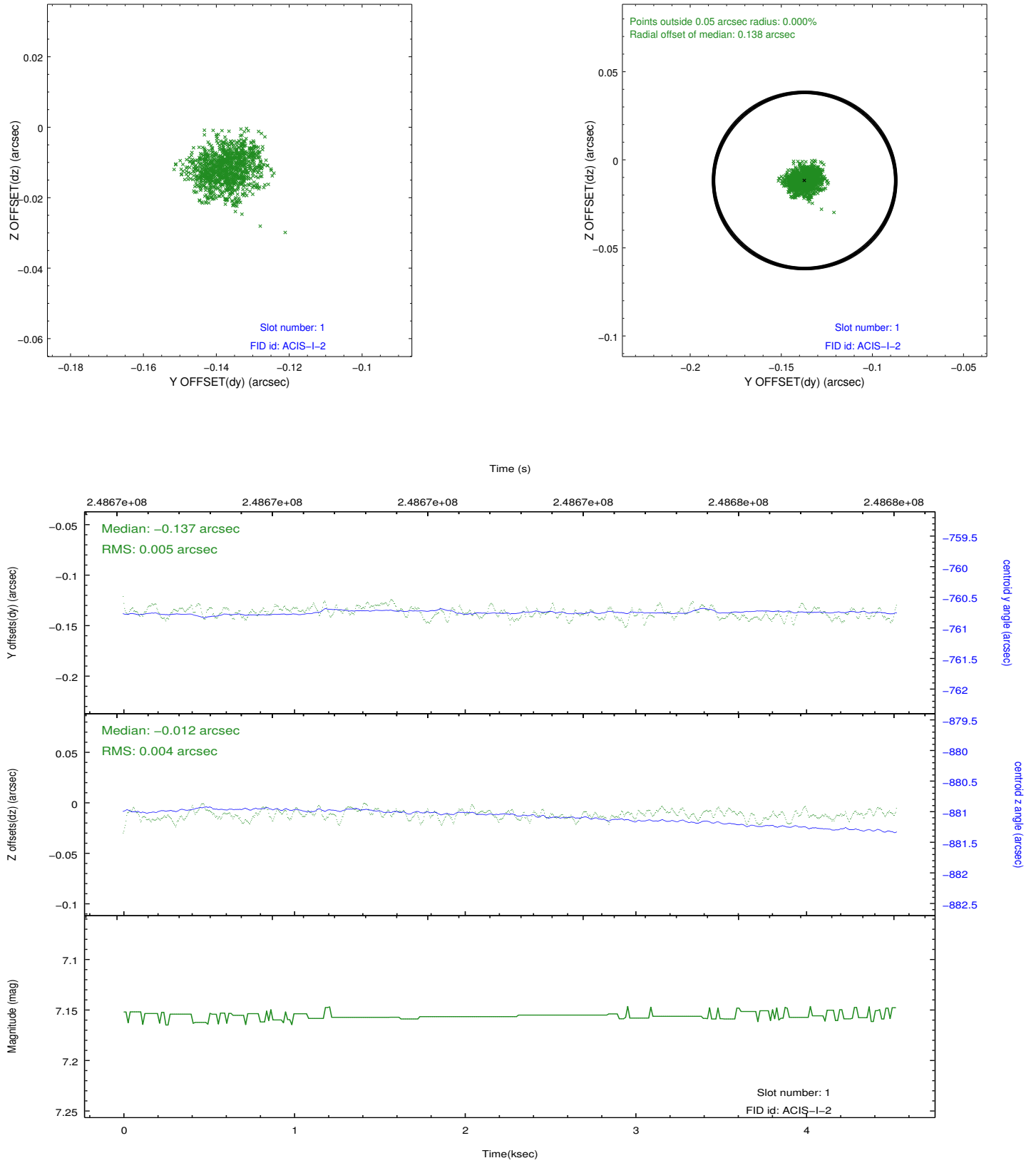


2.5 FID Slots

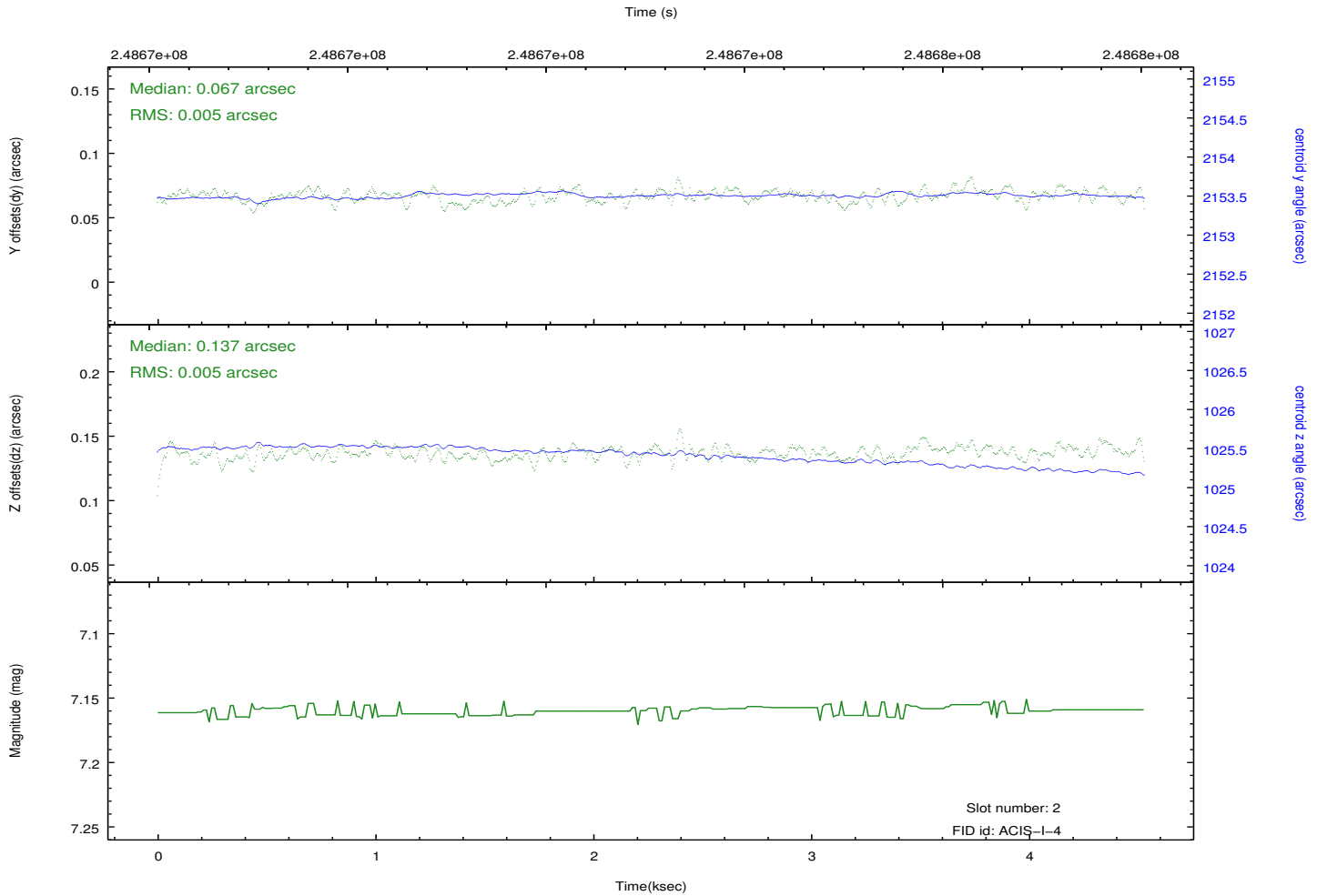
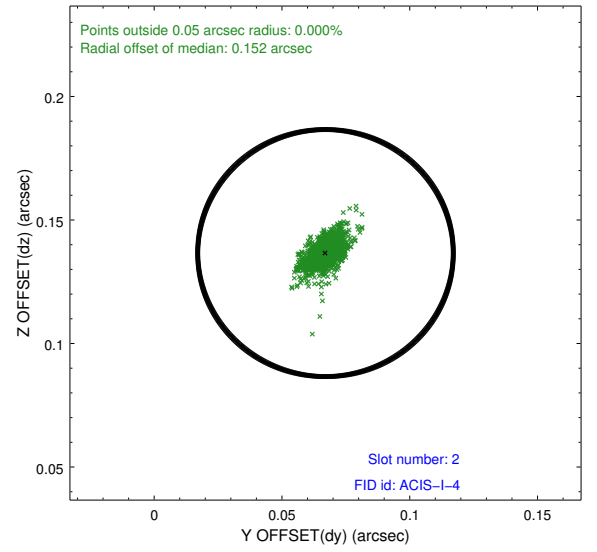
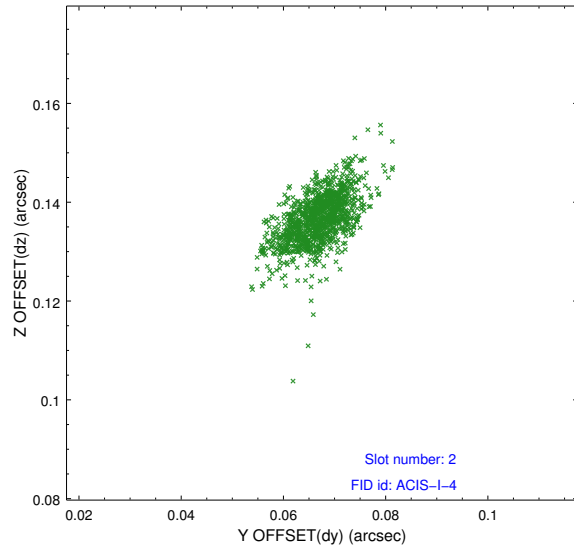
2.5.1 Slot 0



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)	2012.03.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.5255

A.2 Comments