

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13965 - L2 Version 1
Chandra X-Ray Center

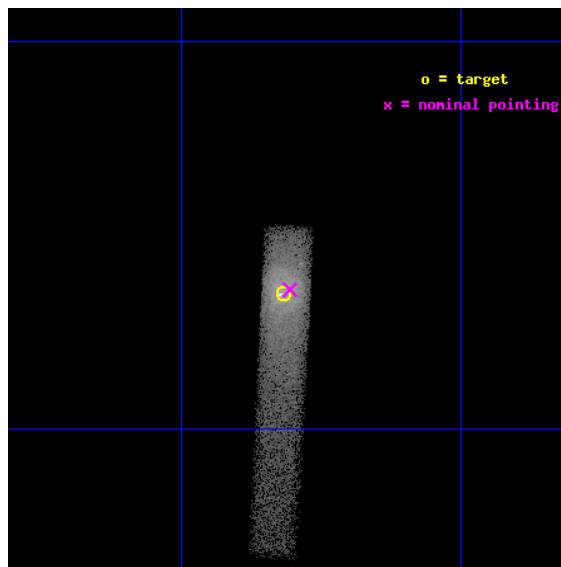
L2 Processing Date : Feb 25 2012

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

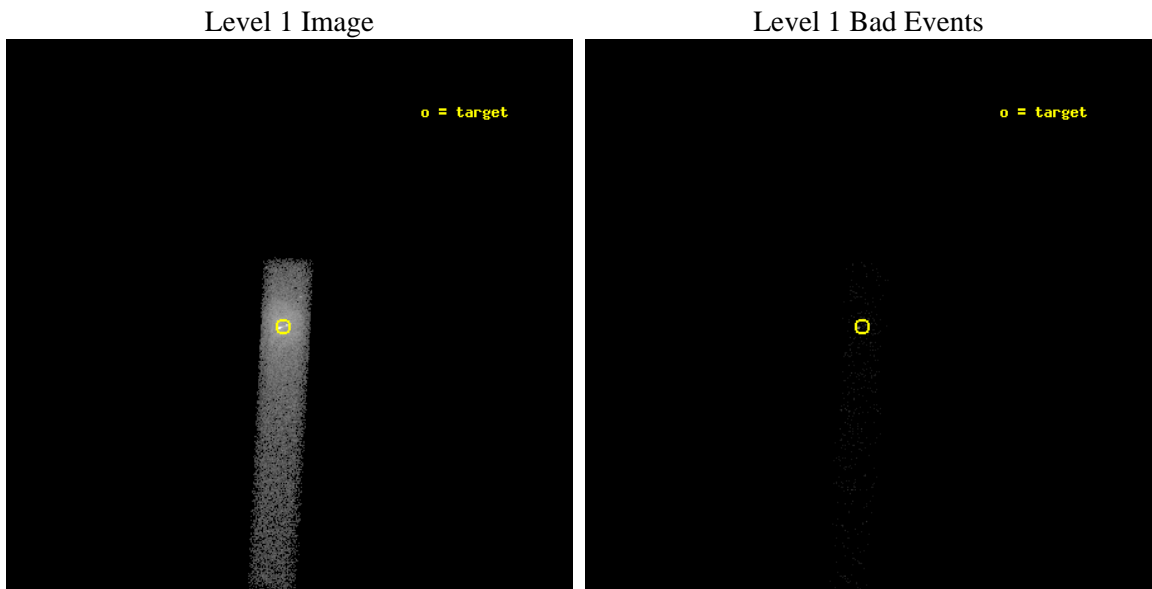
seq_num	702687	Sequence number
obs_id	13965	Observation id
title	Keeping Tabs on the Unique Jet in M87	Proposal title
observer	Dr. Daniel Harris	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.70149296574	Nominal RA [deg]
dec_nom	12.393243731099	Nominal Dec [deg]
roll_nom	92.921912005618	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5069.4885045886	Sum of GTIs [s]
livetime	4597.7584841181	Livetime [s]
ontime7	5069.4885045886	Sum of GTIs [s]
l2events	43429	Number of level 2 events



2 OBI

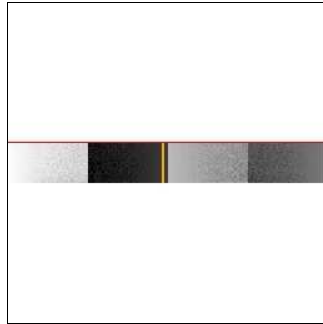
2.1 OBI

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	8.4.3	Processing system revision	ontime	5069.4885045886	Sum of GTIs [s]
caldsver	4.4.8	 	ontime7	5069.4885045886	Sum of GTIs [s]
date	2012-02-25T22:11:30	Date and time of file creation	l1events	46879	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

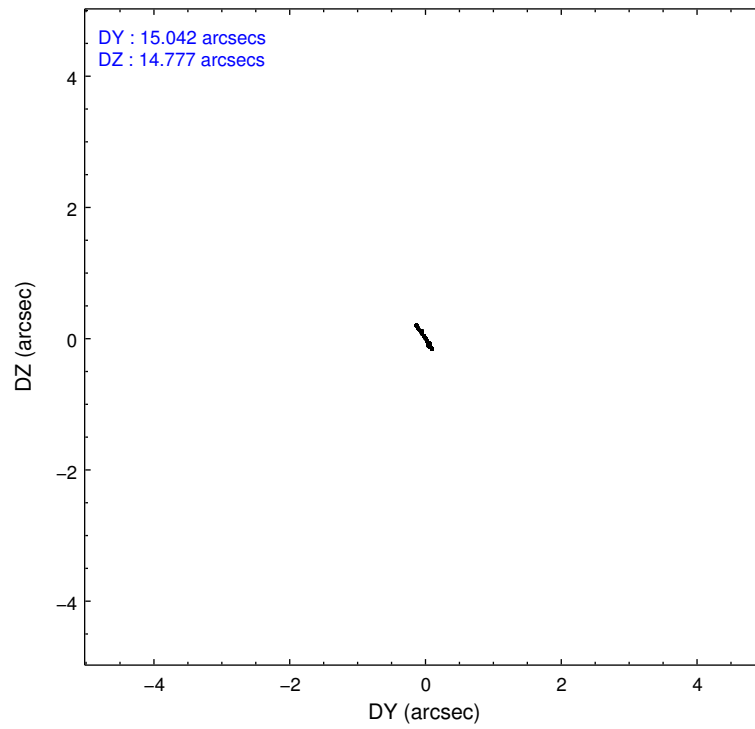
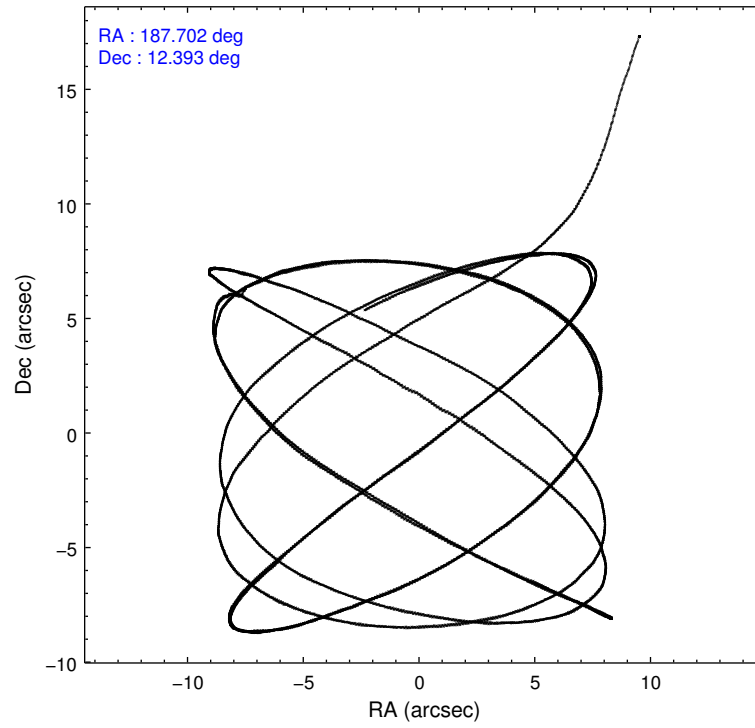
	ccd 7
level 1 events	46879
rejected events	3065
rejected %	6%

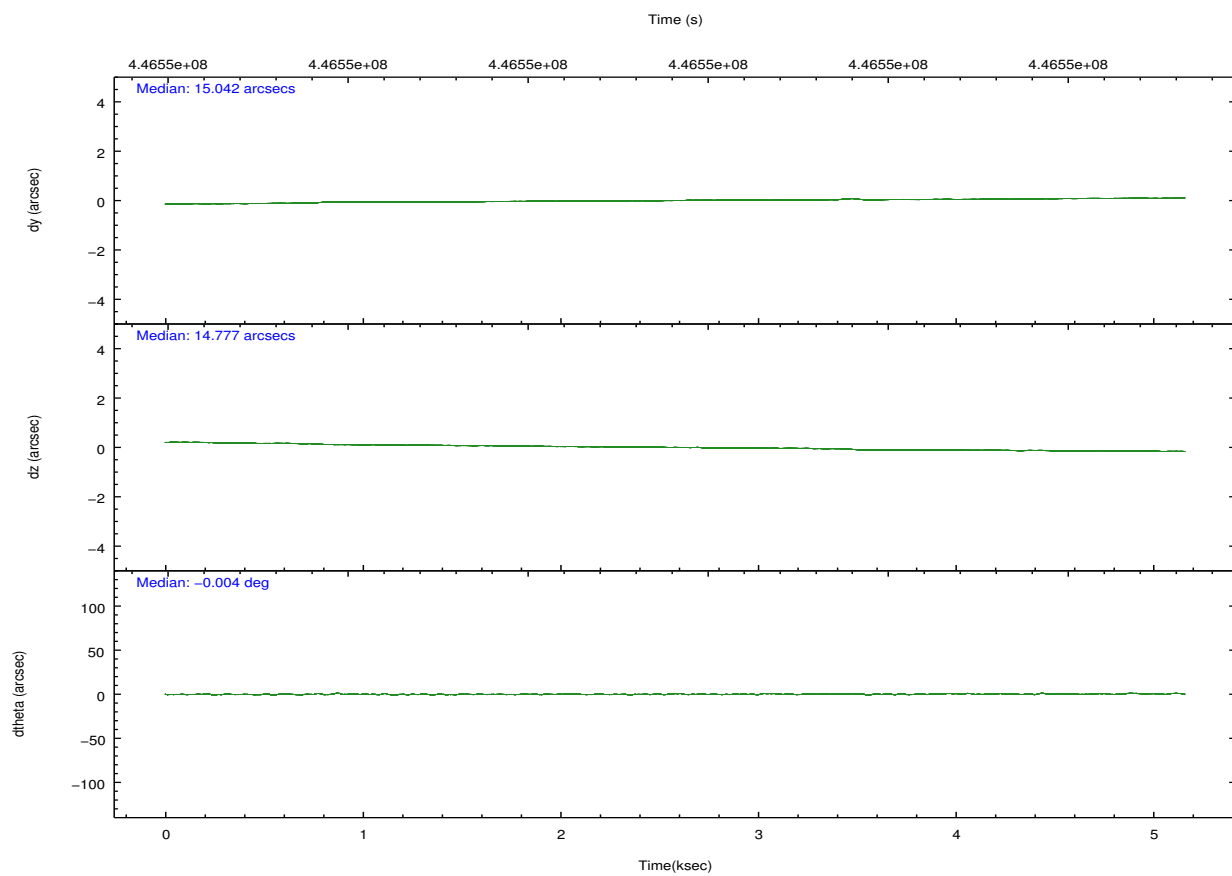
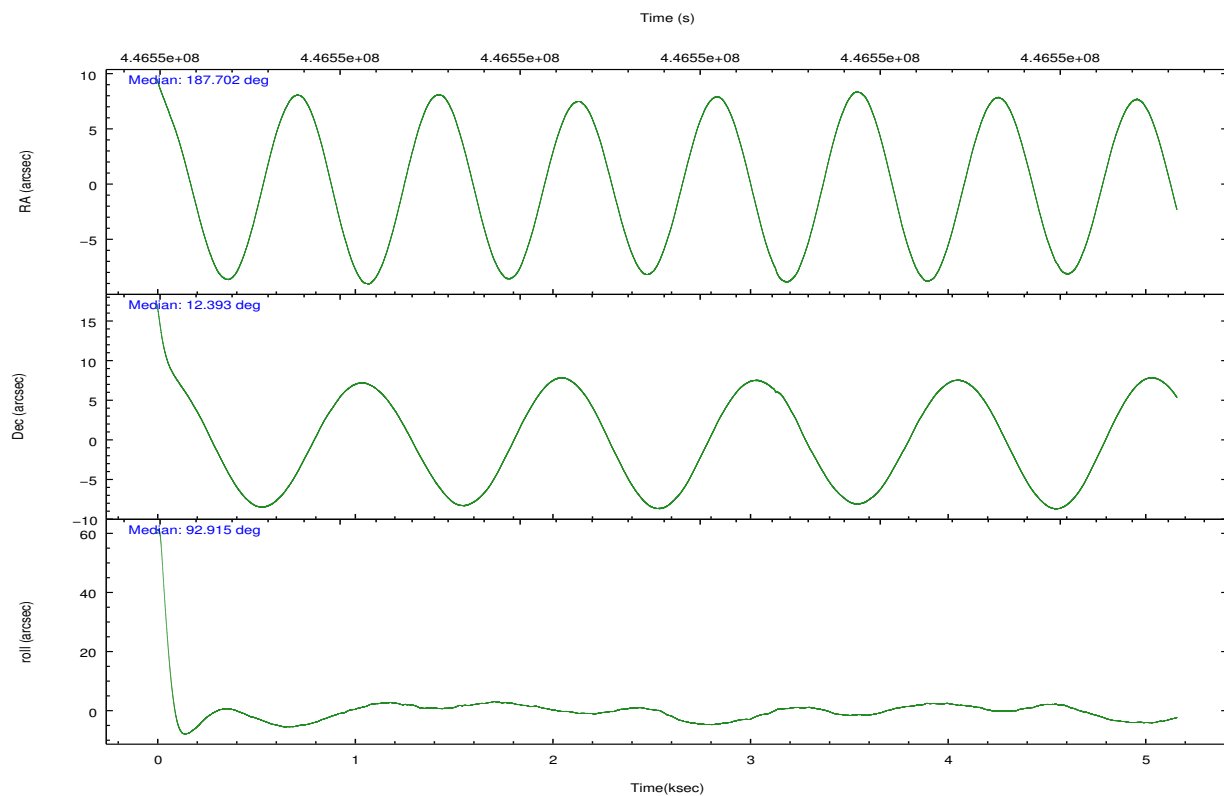
	ccd 7
grade 0 events	13093
	27%
grade 1 events	33
	0%
grade 2 events	11515
	24%
grade 3 events	5224
	11%
grade 4 events	5023
	10%
grade 5 events	769
	1%
grade 6 events	8965
	19%
grade 7 events	2257
	4%

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	187.717009	187.701492965742	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.370413	12.39324373109915	Subarray start row	449	449
[deg] Pointing Roll	92.761750	92.9219120056175	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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	446546398.184000	446544855.27377			
Observation start date	2012-02-25T08:38:52	2012-02-25T08:14:15			
[s] Observation end time (MET)	446551398.184000	446551922.64914			
Observation end date	2012-02-25T10:02:12	2012-02-25T10:12:02			
Read mode	TIMED	TIMED			

2.3 Aspect



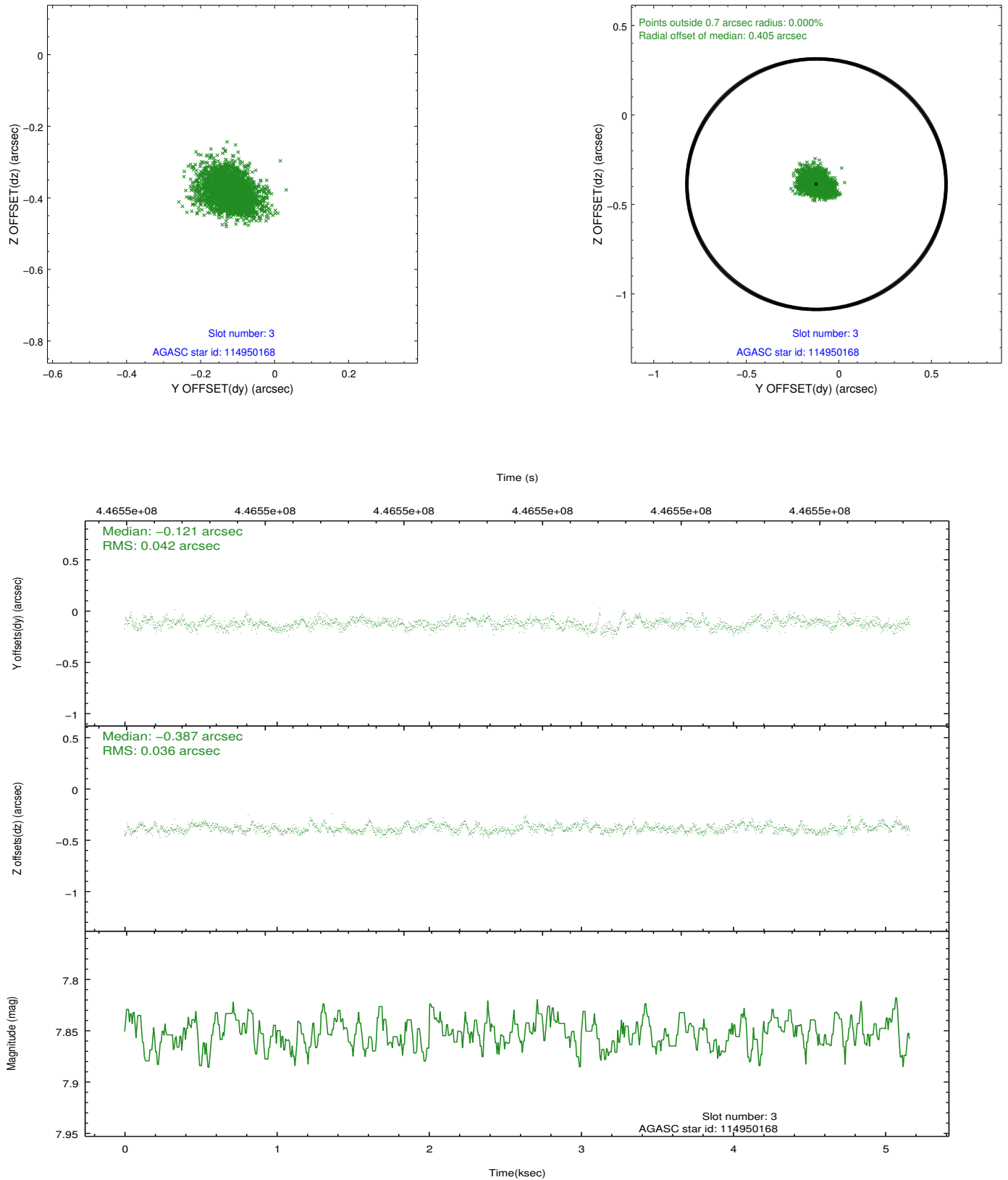


Slot Statistics

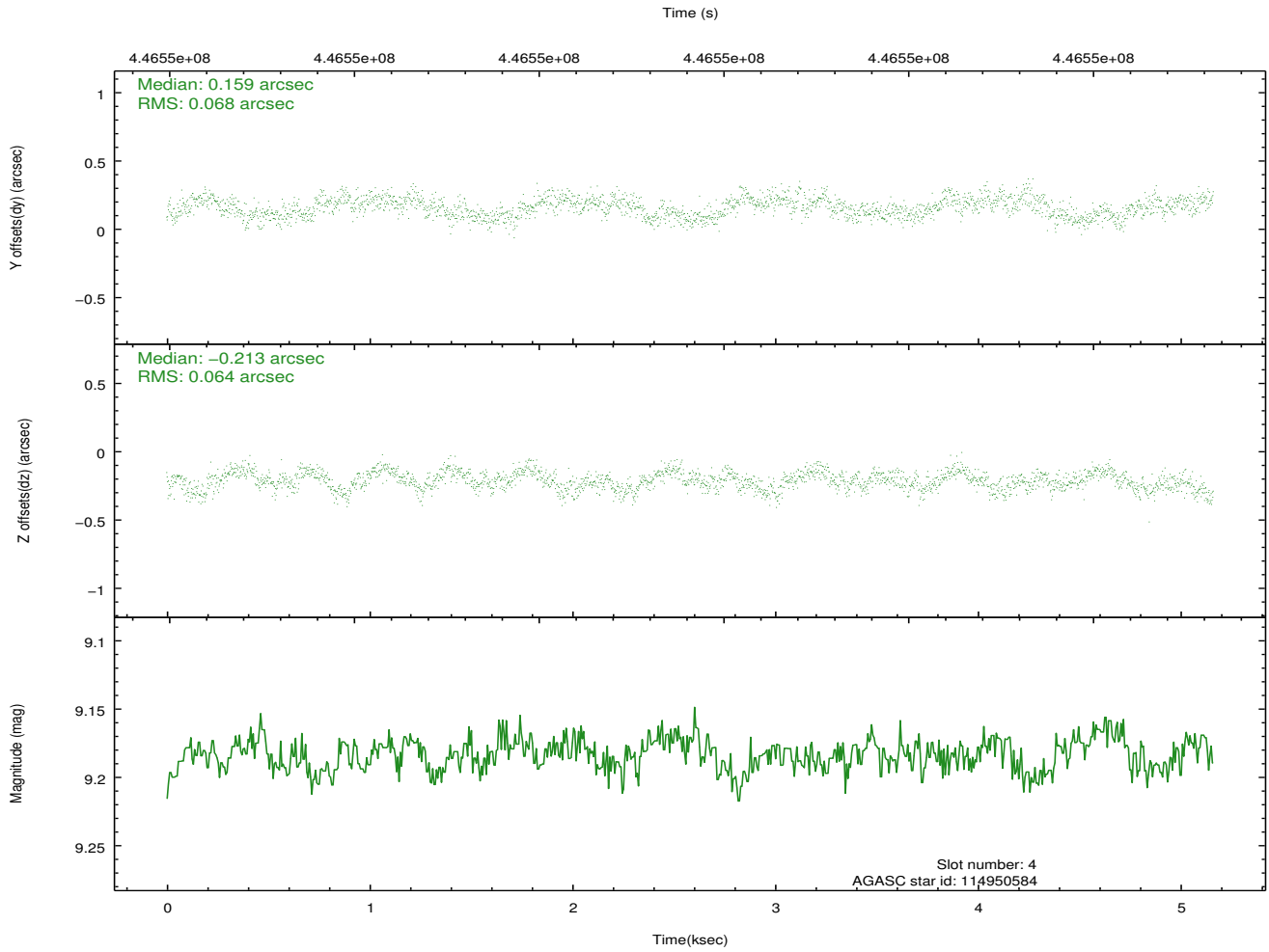
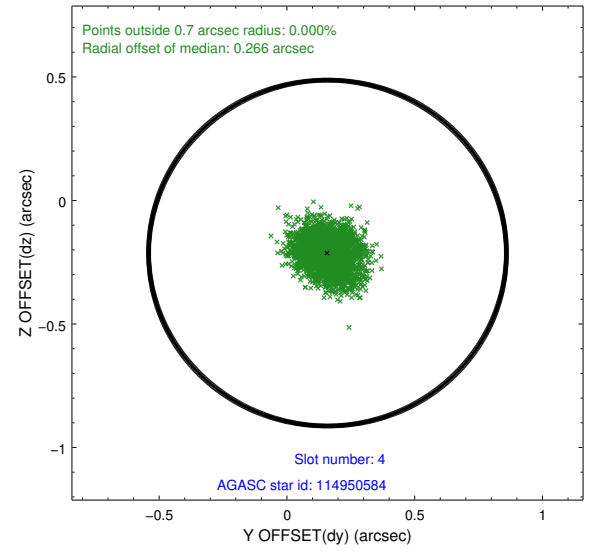
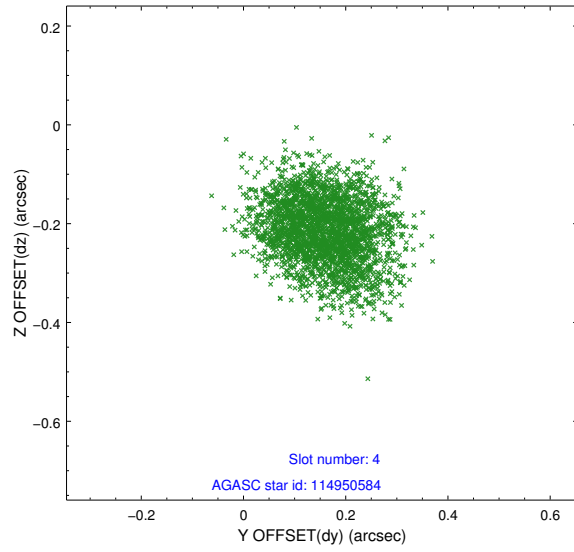
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.93	1259	-0.107	-0.010	0.007	0.012	0.000000	0.000000	-768.12	-1736.11
1	FID	ACIS-S-4	7.02	1259	0.217	0.054	0.005	0.010	0.000000	0.000000	2144.95	171.21
2	FID	ACIS-S-5	7.05	1259	-0.142	-0.035	0.007	0.012	0.000000	0.000000	-1819.49	166.14
3	GUIDE	114950168	7.85	2519	-0.121	-0.387	0.059	0.096	187.143398	12.117441	-811.10	2060.46
4	GUIDE	114950584	9.18	2518	0.159	-0.213	0.101	0.160	187.487323	11.827248	-1914.40	903.94
5	GUIDE	114952824	8.56	2518	-0.175	-0.302	0.081	0.144	187.703904	12.486727	419.21	26.95
6	GUIDE	114955056	8.33	2516	0.205	0.675	0.092	0.143	187.914001	12.127854	-905.15	-649.22
7	GUIDE	114955568	7.52	2518	-0.081	0.230	0.072	0.115	187.061916	11.826551	-1842.66	2400.34

2.4 Star Slots

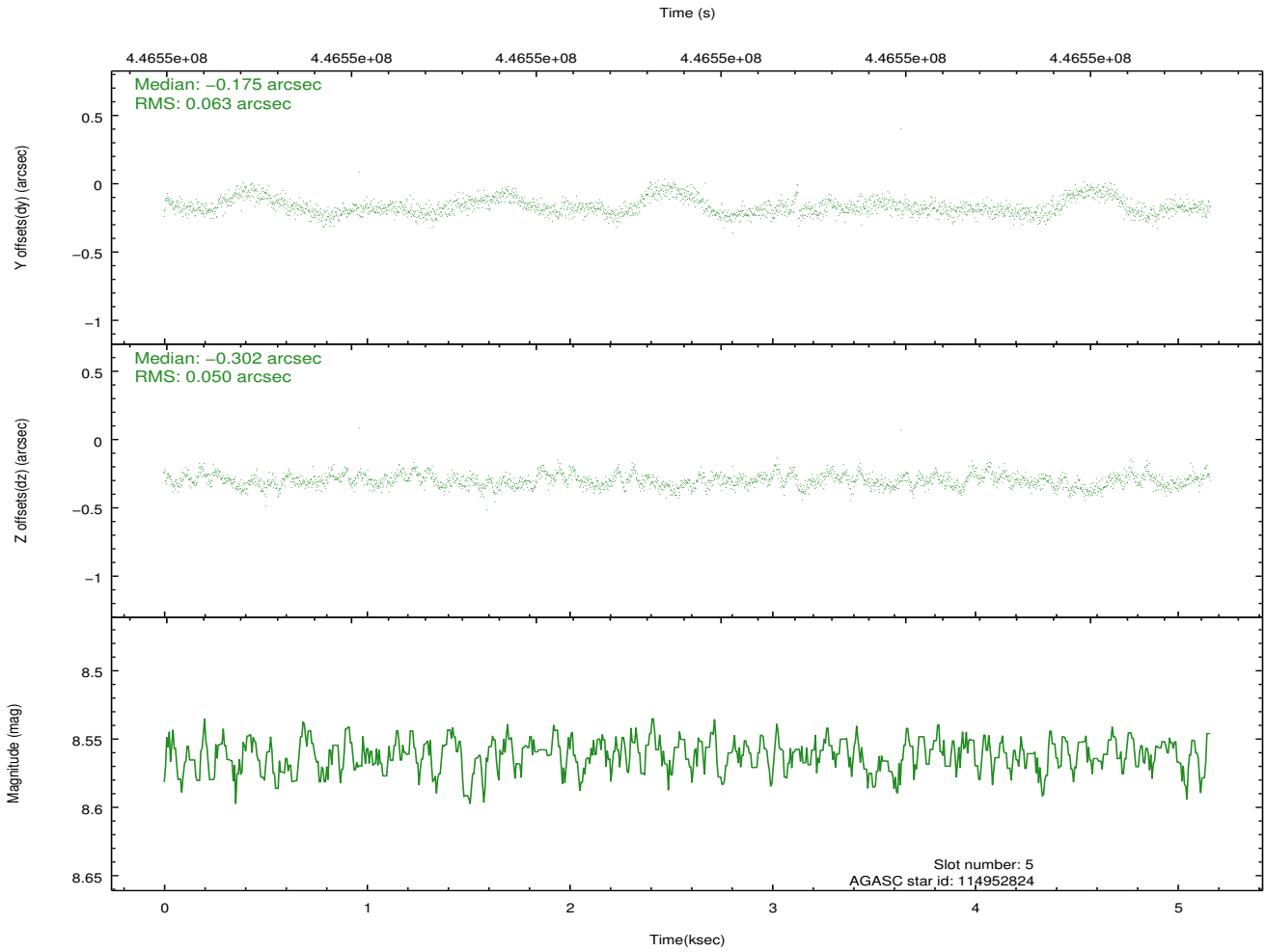
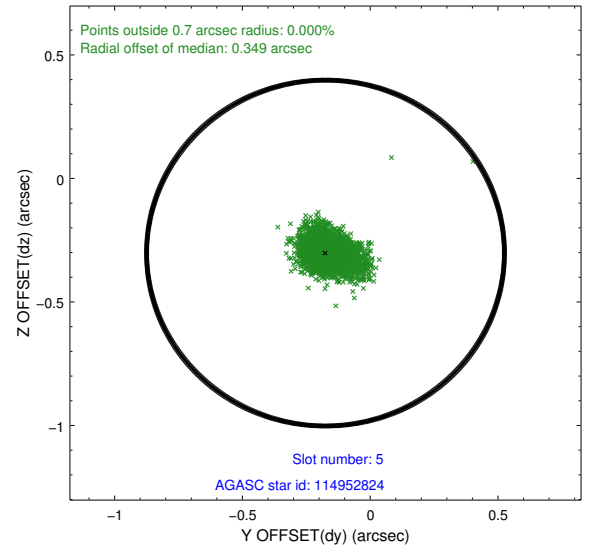
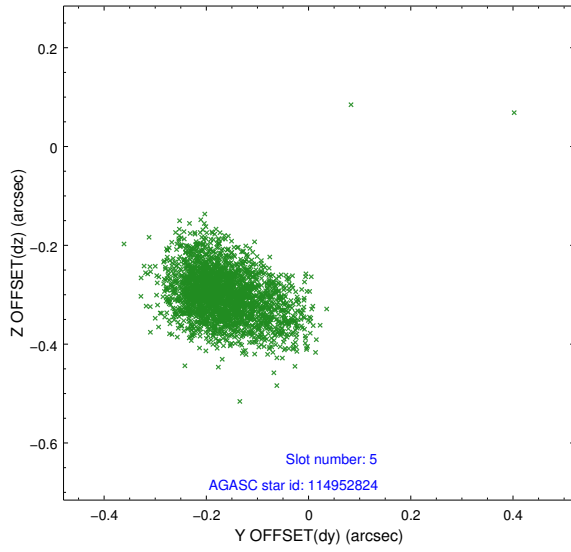
2.4.1 Slot 3



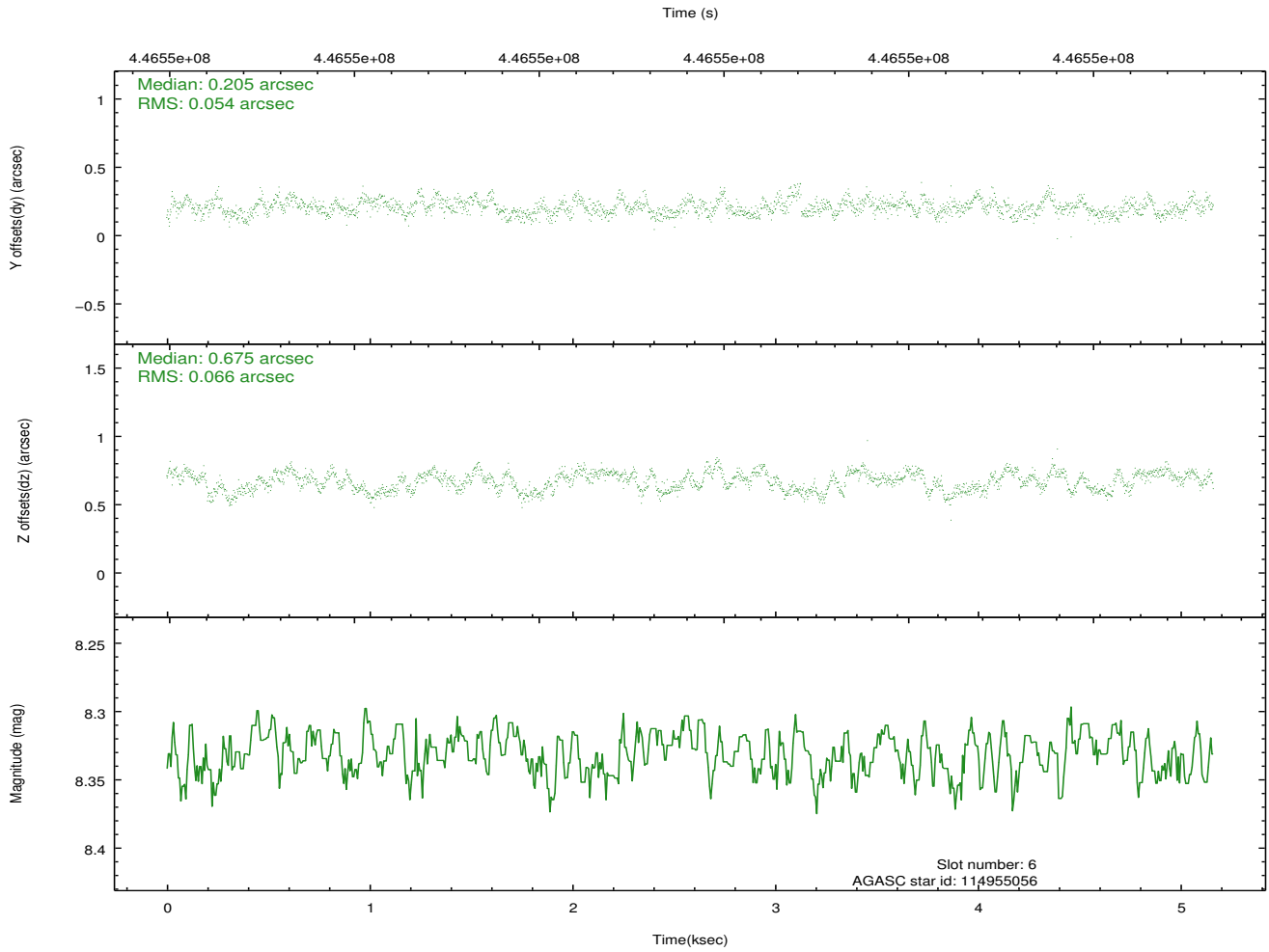
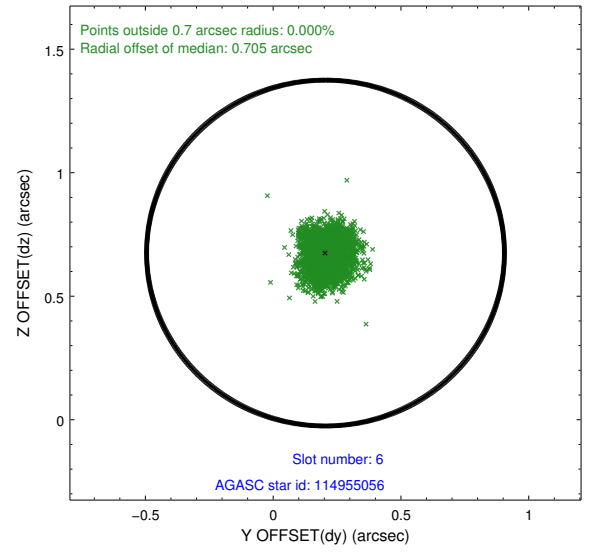
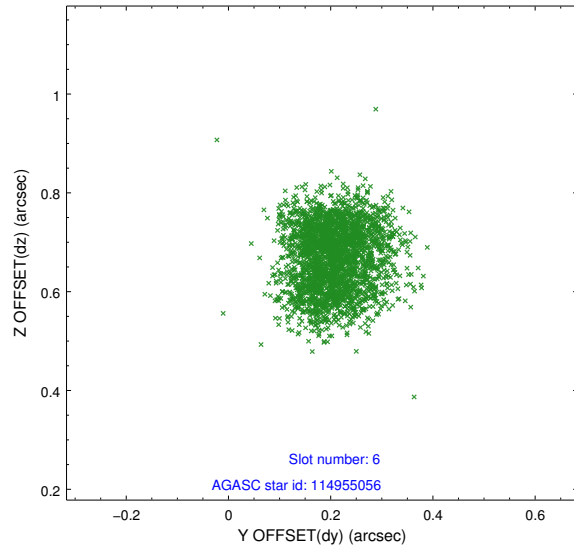
2.4.2 Slot 4



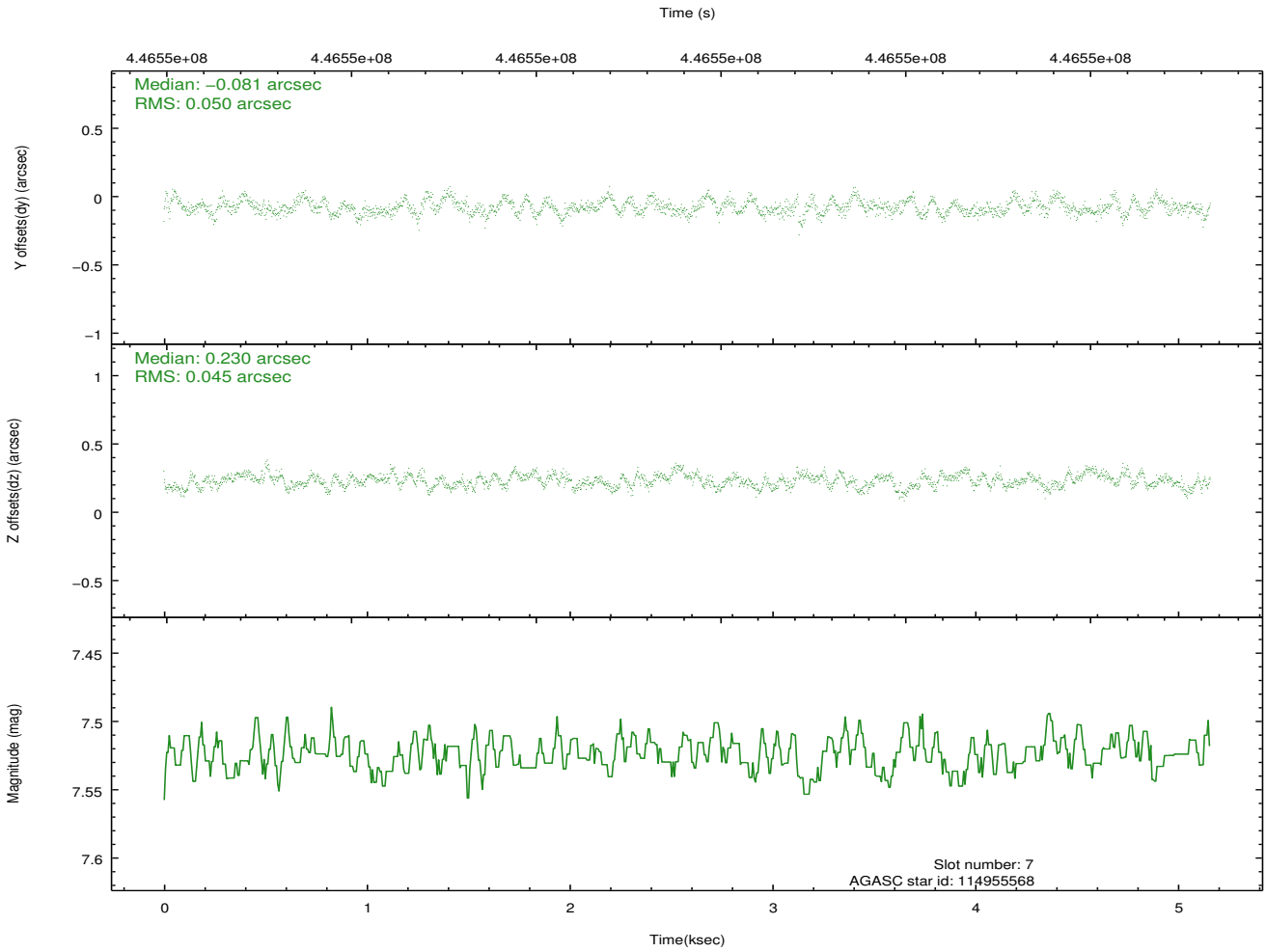
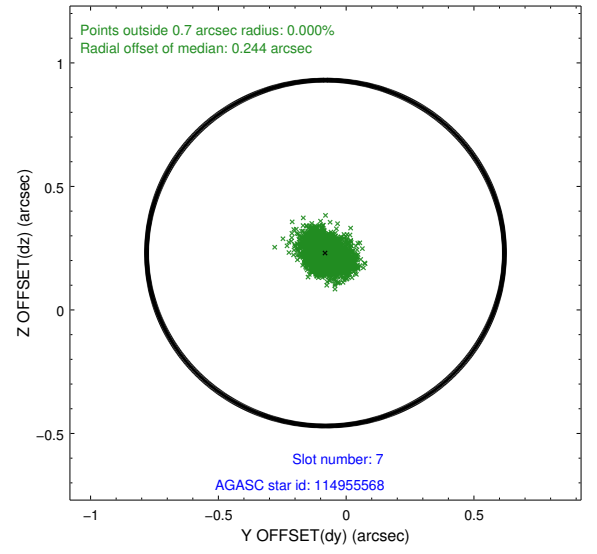
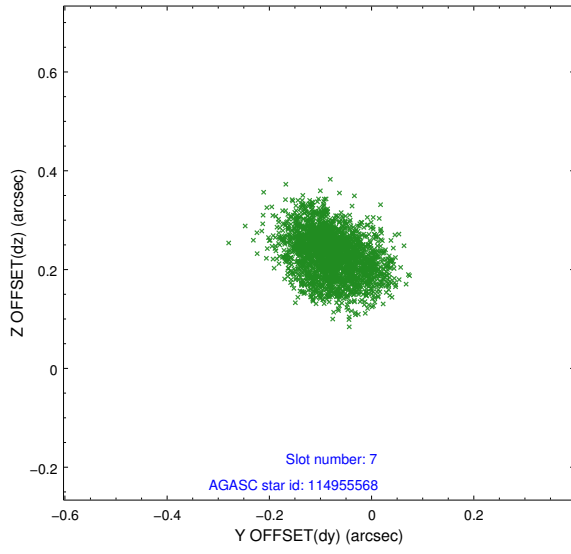
2.4.3 Slot 5



2.4.4 Slot 6

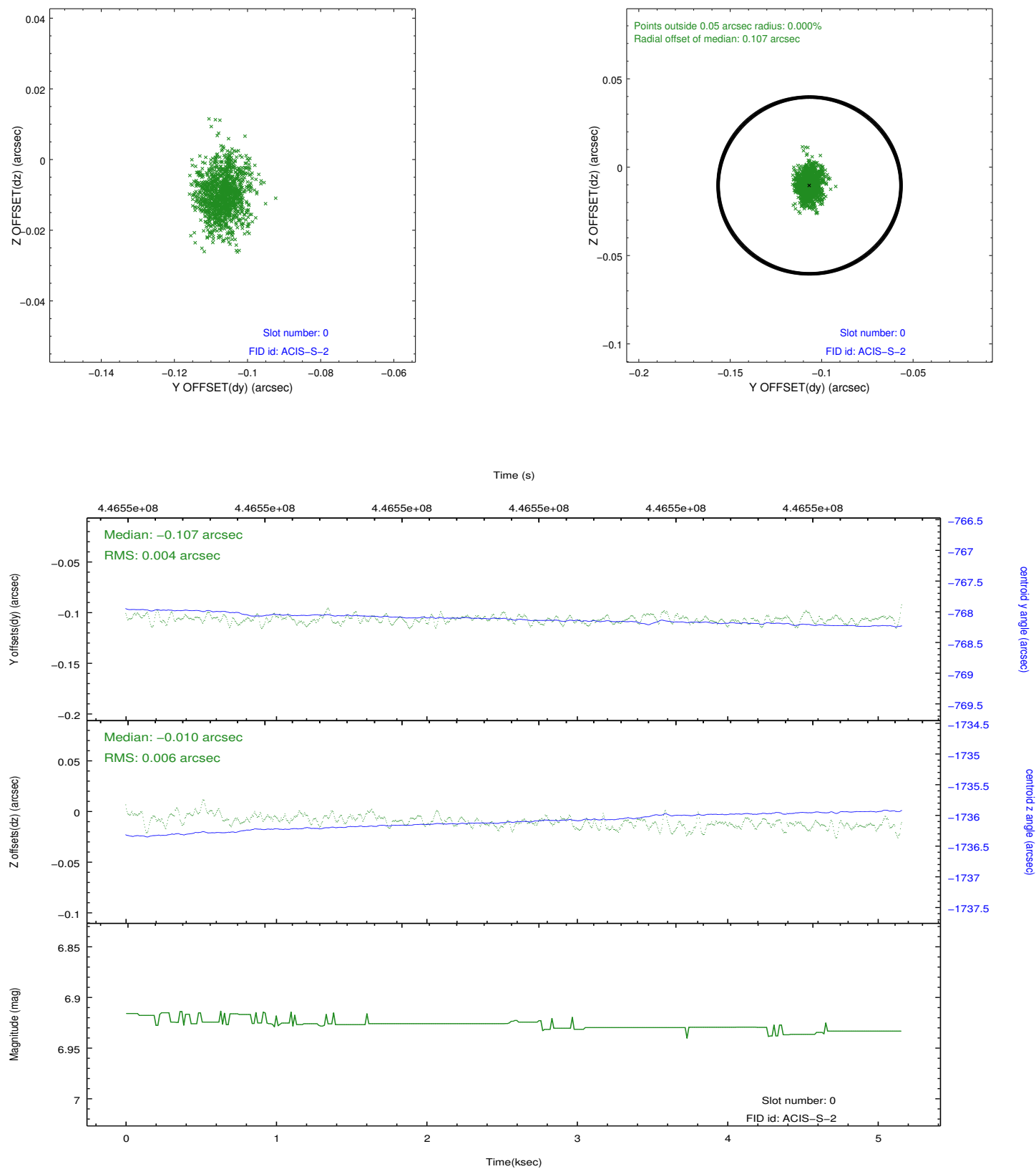


2.4.5 Slot 7

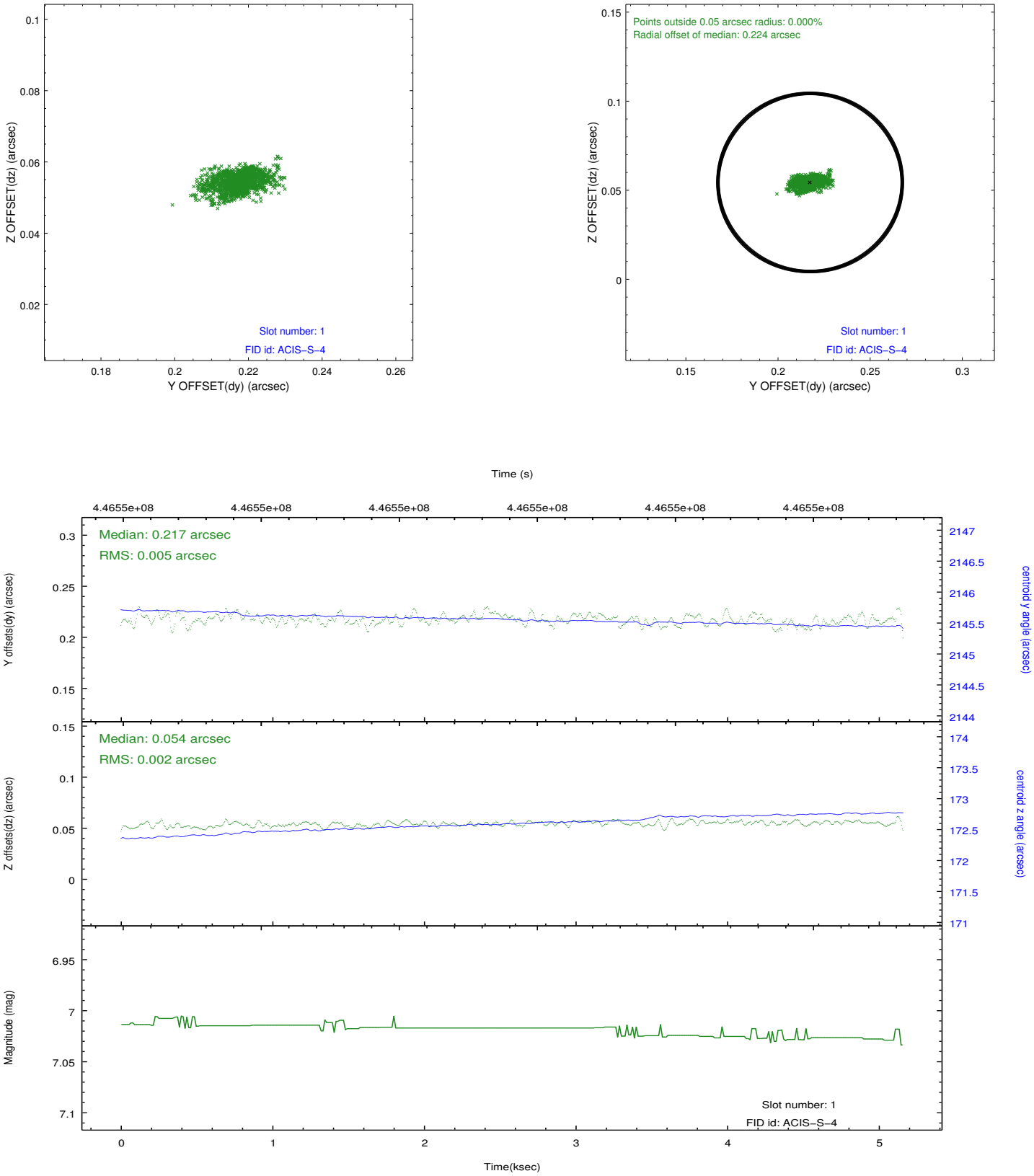


2.5 FID Slots

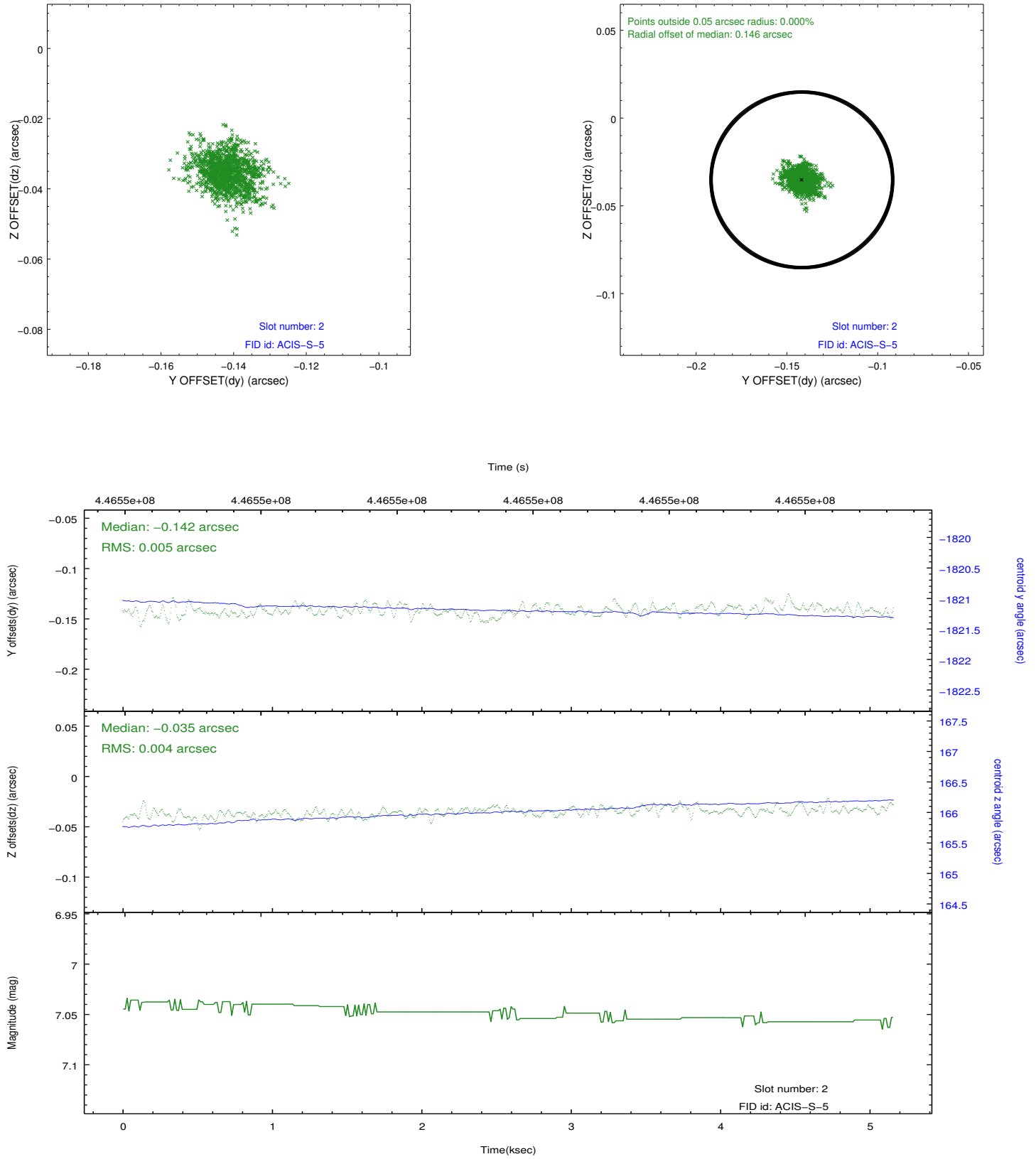
2.5.1 Slot 0



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)	2012.02.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0694885045886

A.2 Comments

Monitor constraint met.