

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17057 - L2 Version 1
Chandra X-Ray Center

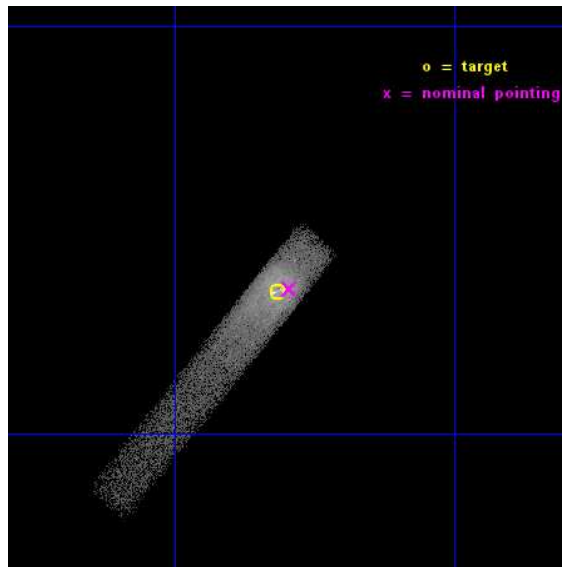
L2 Processing Date : Mar 20 2015

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1 Front

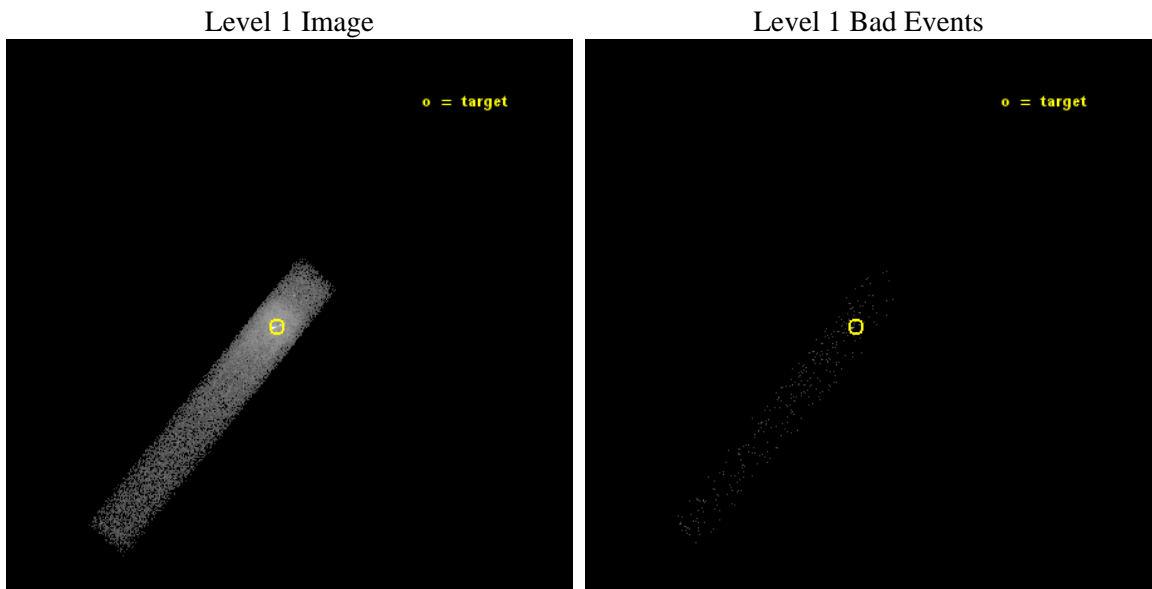
seq_num	703061	Sequence number
obs_id	17057	Observation id
title	Keeping Tabs on the Unique Jet in M87 During Cycle 16	Proposal tit
observer	Dr. Daniel Harris	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.69865540574	Nominal RA [deg]
dec_nom	12.392696580067	Nominal Dec [deg]
roll_nom	130.15774728942	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5070.3730741739	Sum of GTIs [s]
livetime	4598.5607420406	Livetime [s]
ontime7	5070.3730741739	Sum of GTIs [s]
l2events	35575	Number of level 2 events



2 OBI

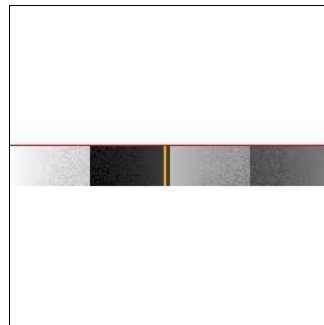
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	5070.3730741739	Sum of GTIs [s]
caldbver	4.6.7	 	ontime7	5070.3730741739	Sum of GTIs [s]
date	2015-03-20T12:28:17	Date and time of file creation	l1events	38353	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

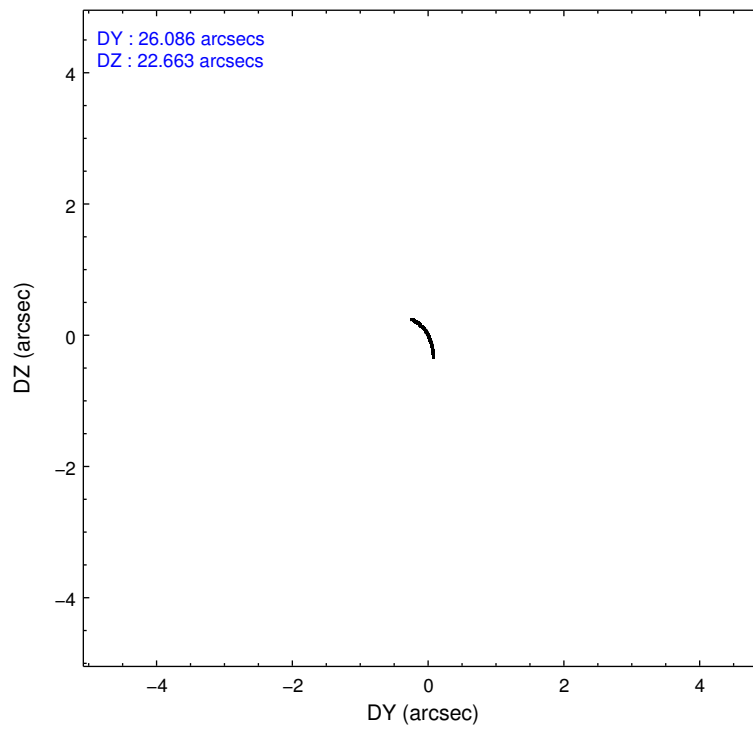
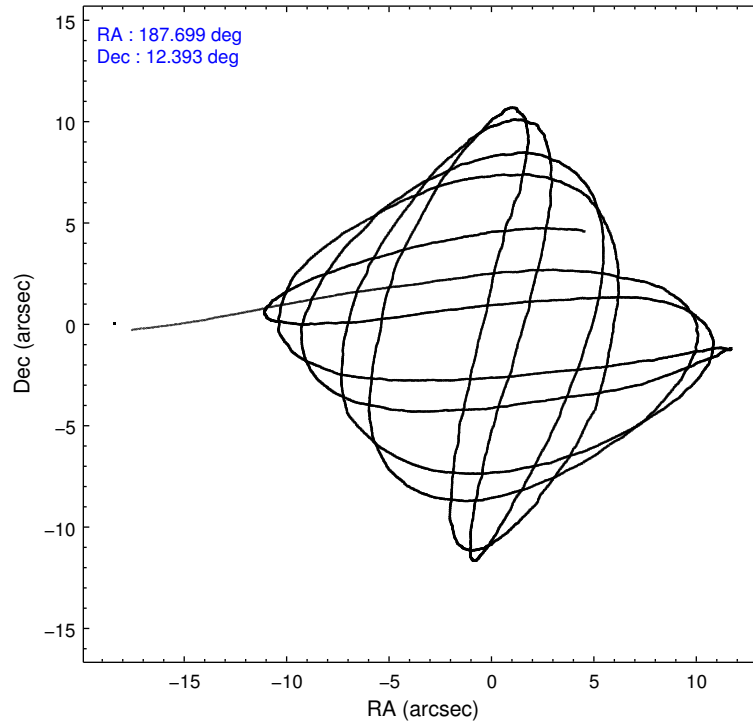
	ccd 7
level 1 events	38353
rejected events	2451
rejected %	6%

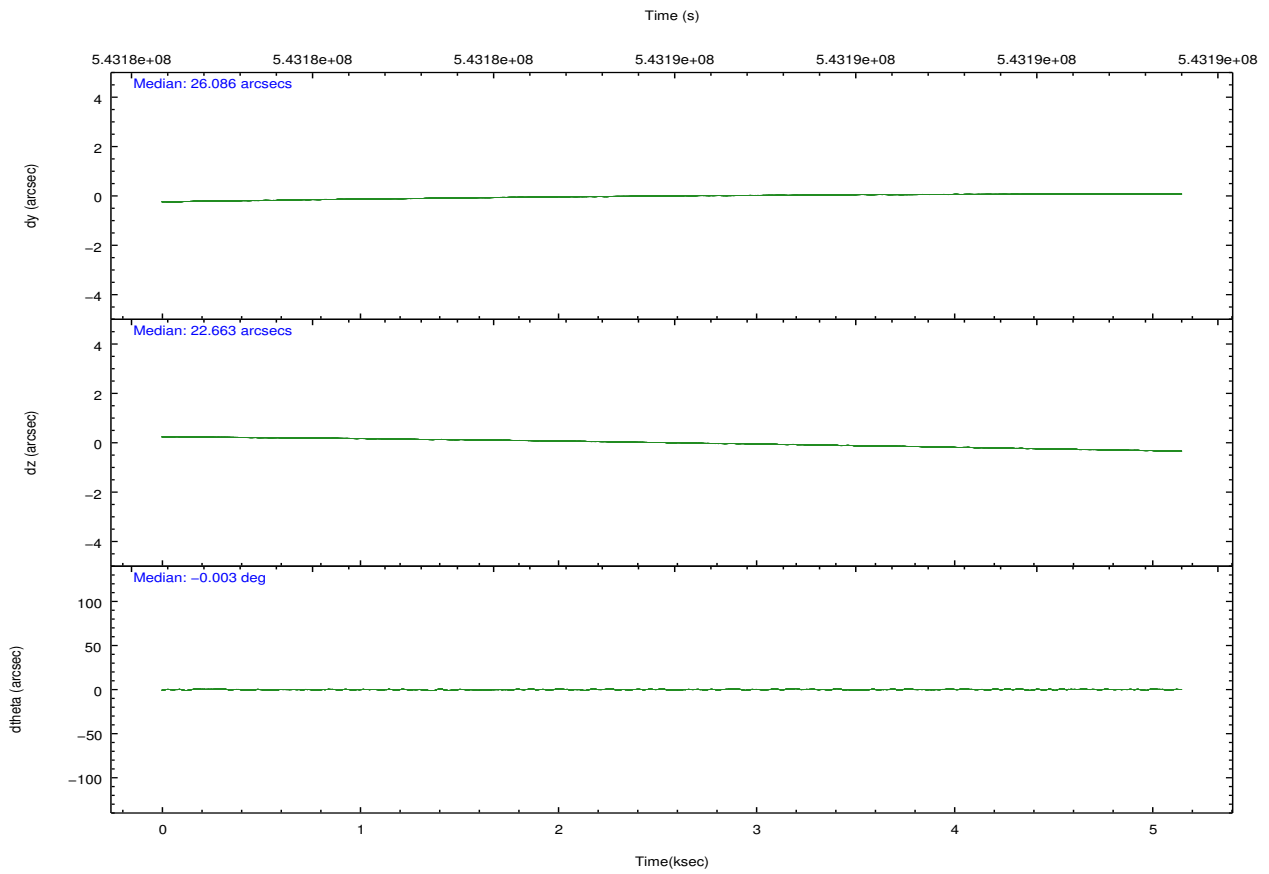
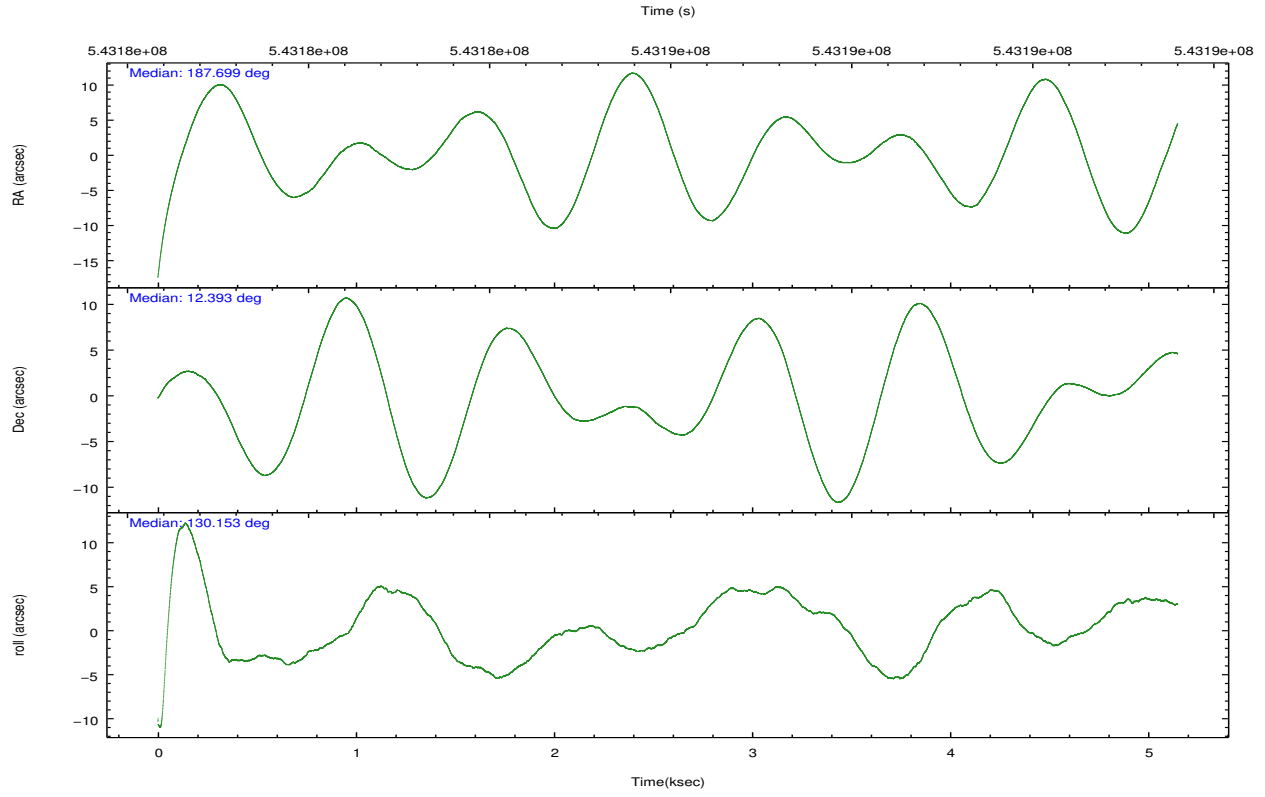
	ccd 7
grade 0 events	10522
	27%
grade 1 events	9
	0%
grade 2 events	9262
	24%
grade 3 events	4176
	10%
grade 4 events	4264
	11%
grade 5 events	684
	1%
grade 6 events	7681
	20%
grade 7 events	1755
	4%

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	187.725252	187.6986554057381	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.383710	12.39269658006733	Subarray start row	449	449
[deg] Pointing Roll	129.995475	130.1577472894224	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)	543183570.184000	543182321.7902			
Observation start date	2015-03-19T20:18:23	2015-03-19T19:58:41			
[s] Observation end time (MET)	543188570.184000	543189045.27807			
Observation end date	2015-03-19T21:41:43	2015-03-19T21:50:45			
Read mode	TIMED	TIMED			

2.3 Aspect



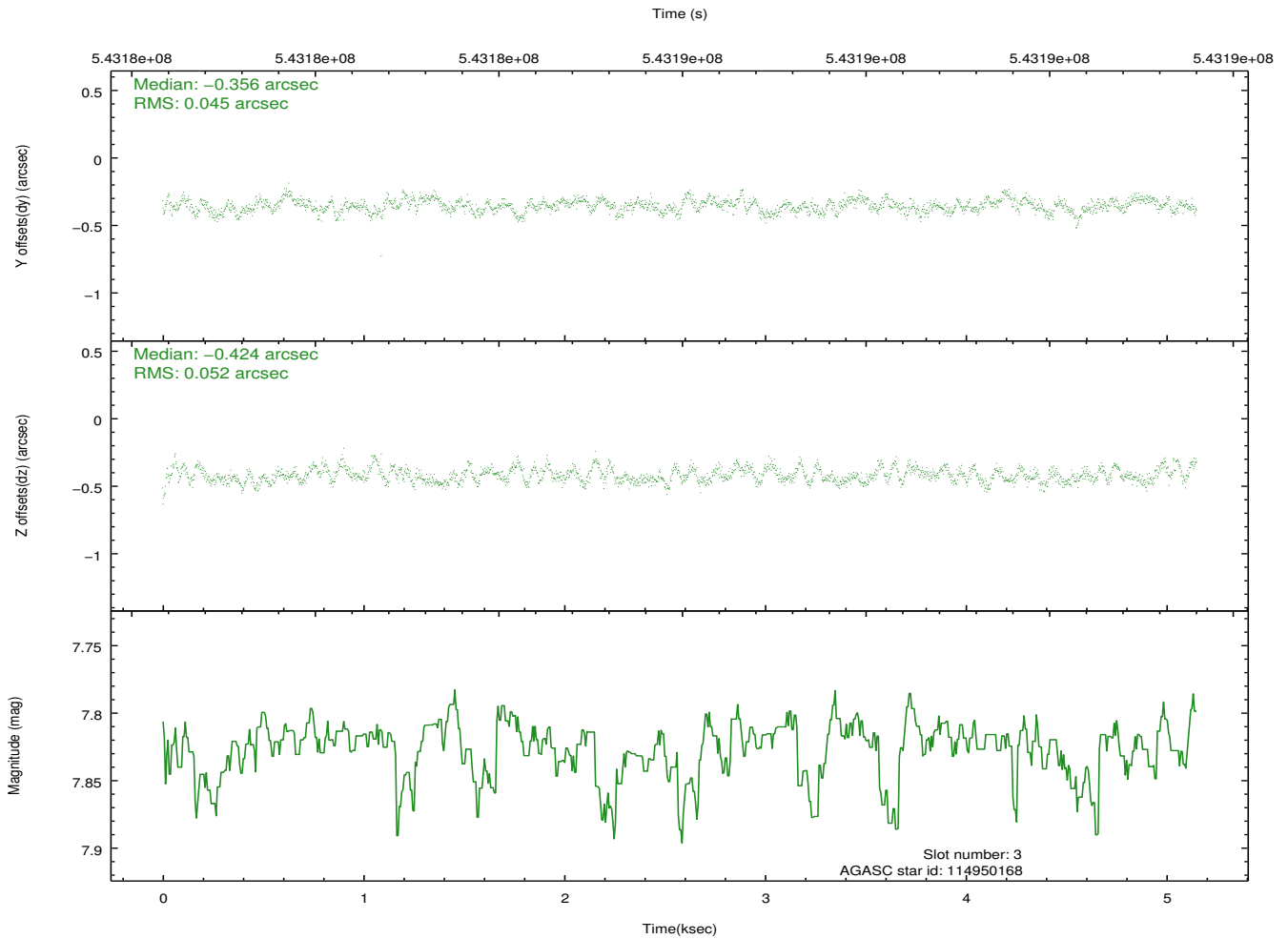
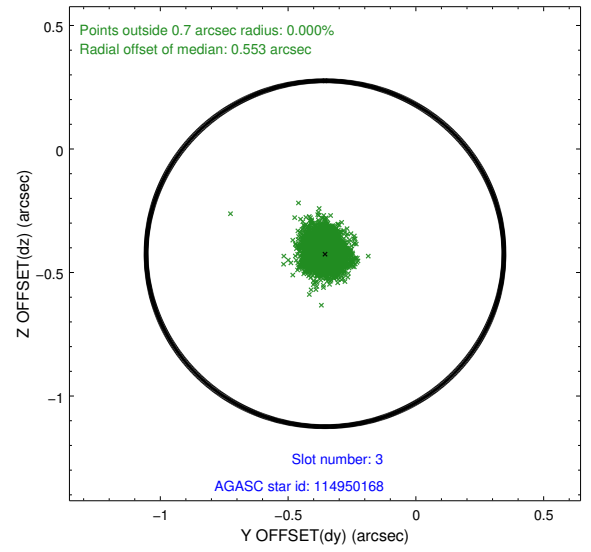
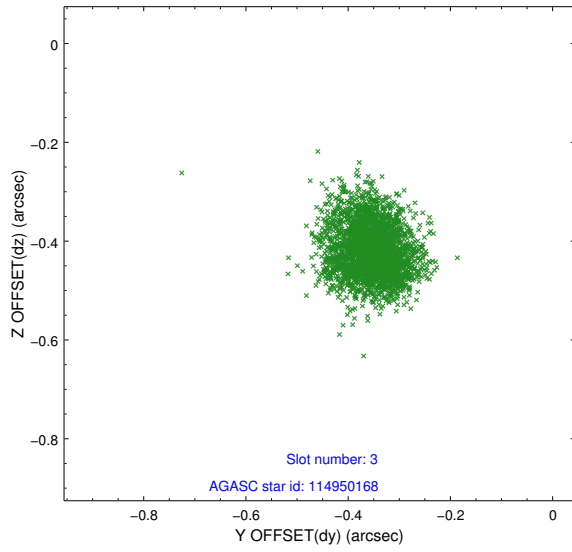


Slot Statistics

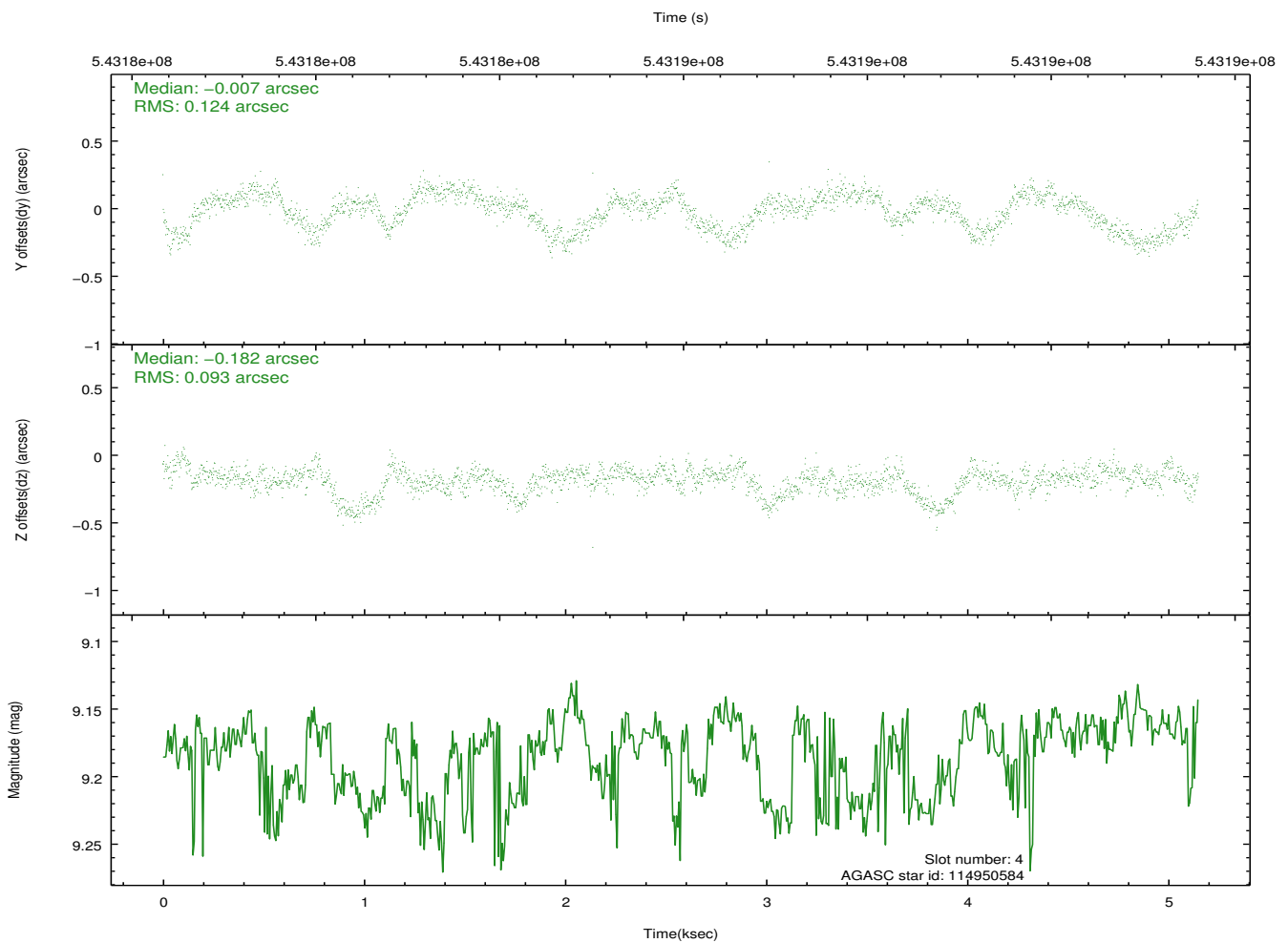
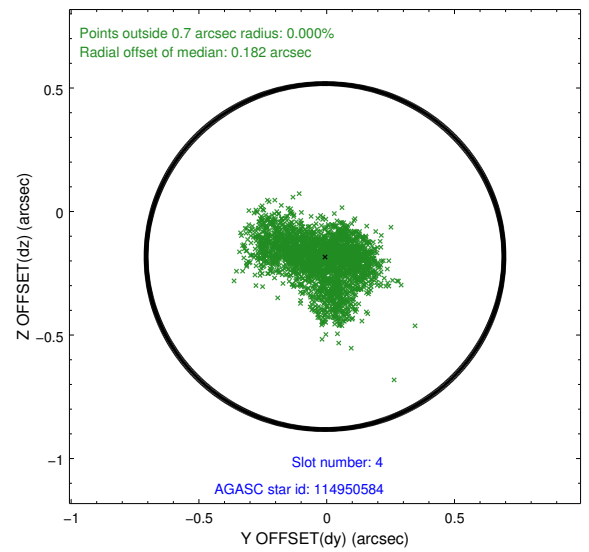
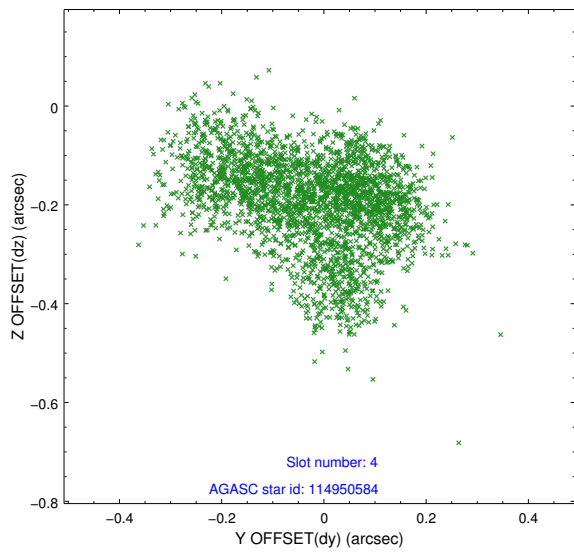
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	1256	-0.191	-0.059	0.007	0.011	0.000000	0.000000	-779.54	-1744.23
1	FID		ACIS-S-4	7.03	1256	0.372	0.108	0.006	0.011	0.000000	0.000000	2133.77	163.16
2	FID		ACIS-S-5	7.05	1256	-0.212	-0.040	0.007	0.011	0.000000	0.000000	-1830.88	158.07
3	GUIDE	used	114950168	7.82	2512	-0.356	-0.424	0.074	0.116	187.143398	12.117441	582.89	2183.54
4	GUIDE	used	114950584	9.18	2513	-0.007	-0.182	0.167	0.266	187.487323	11.827248	-995.29	1930.78
5	GUIDE	used	114952792	9.45	2506	-0.214	-0.371	0.196	0.283	187.070263	12.344747	1374.85	1855.14
6	GUIDE	used	114952824	8.57	2512	-0.098	0.364	0.084	0.144	187.703904	12.486727	333.11	-179.12
7	GUIDE	used	114955056	8.33	2512	0.684	0.615	0.096	0.152	187.914001	12.127854	-1131.48	83.62

2.4 Star Slots

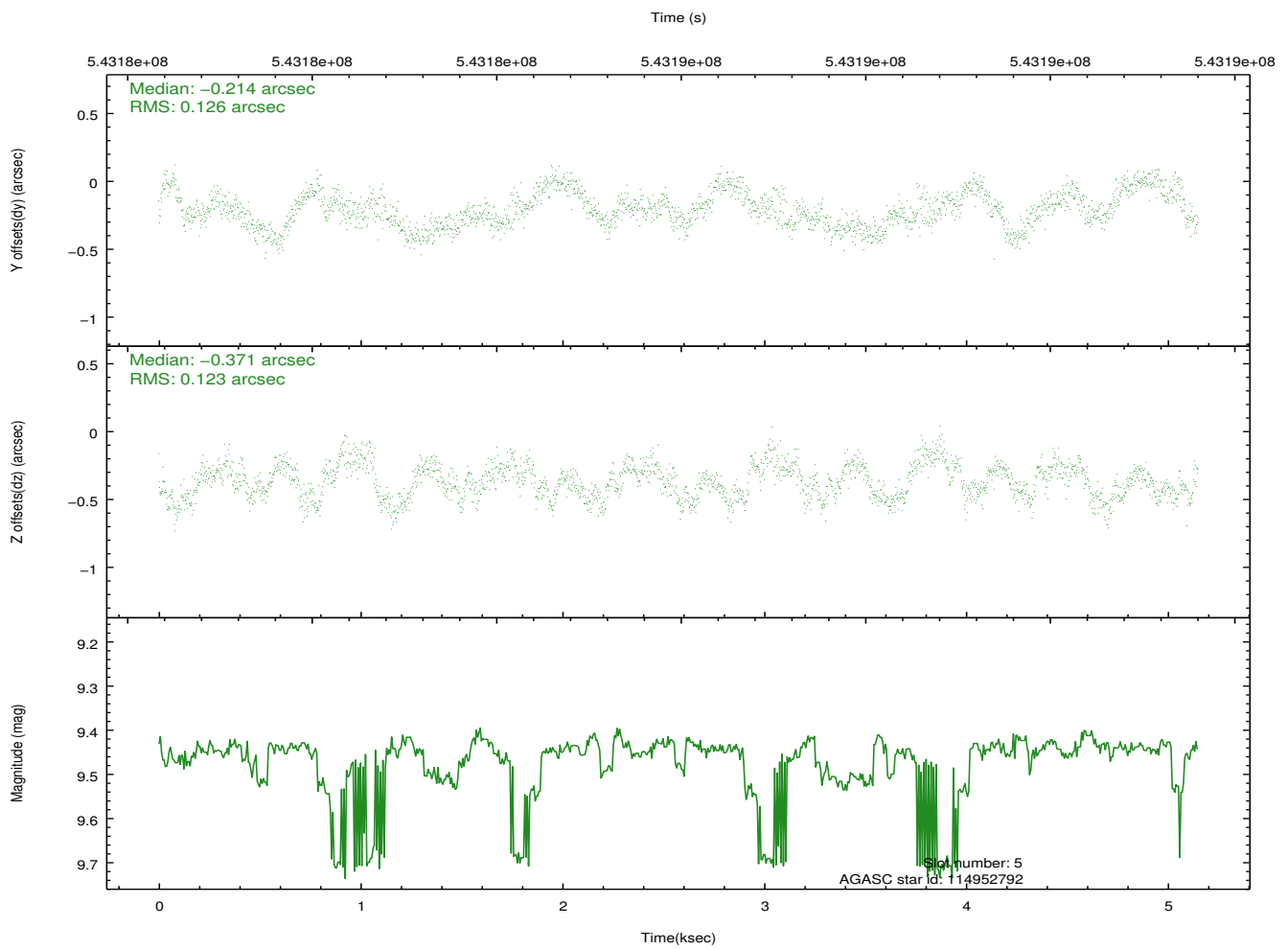
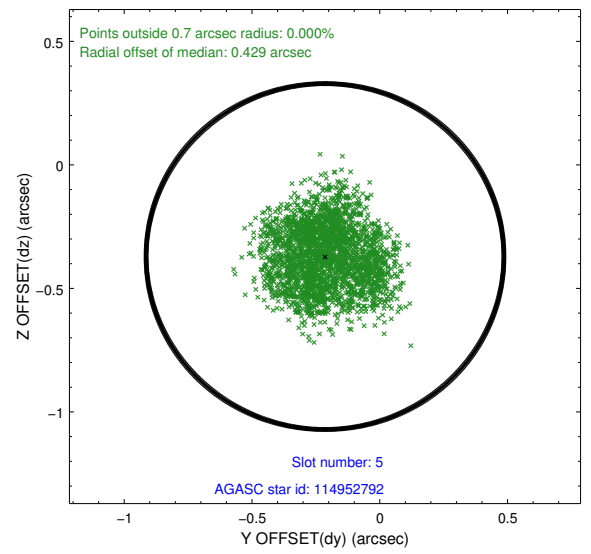
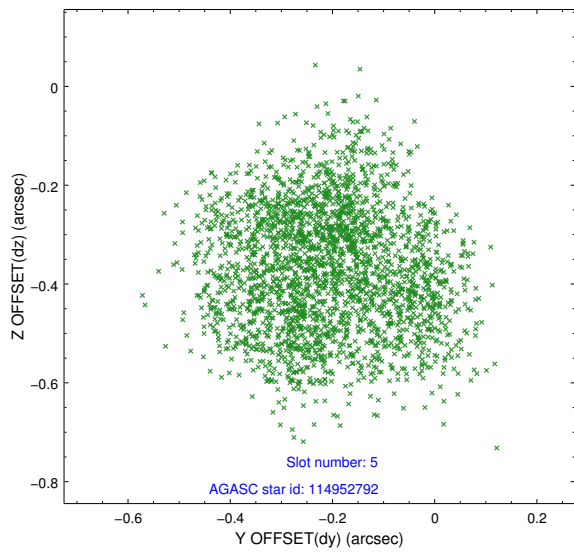
2.4.1 Slot 3



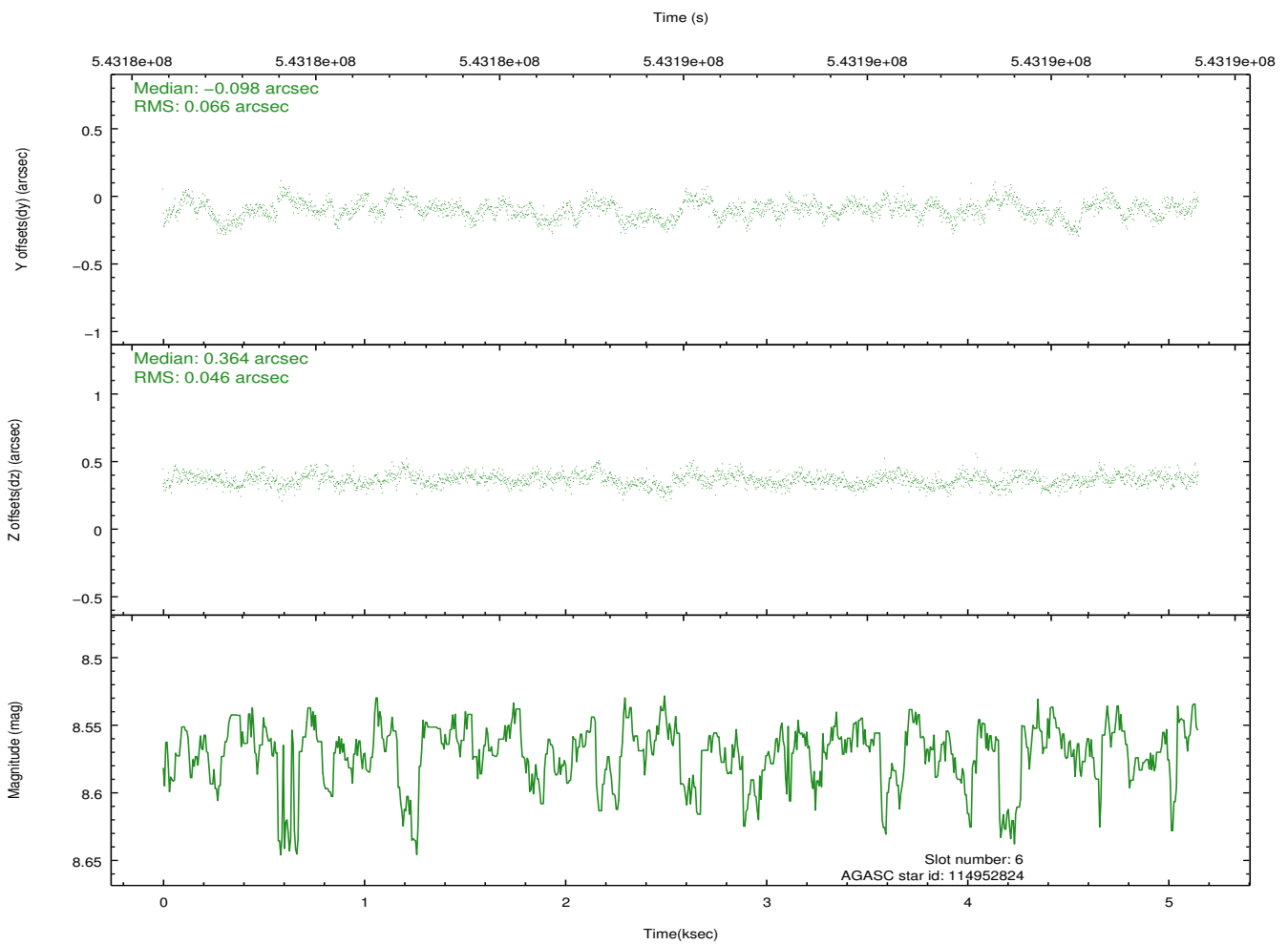
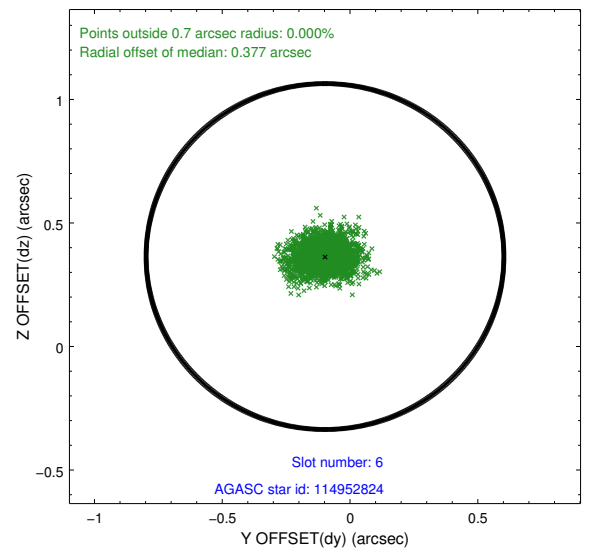
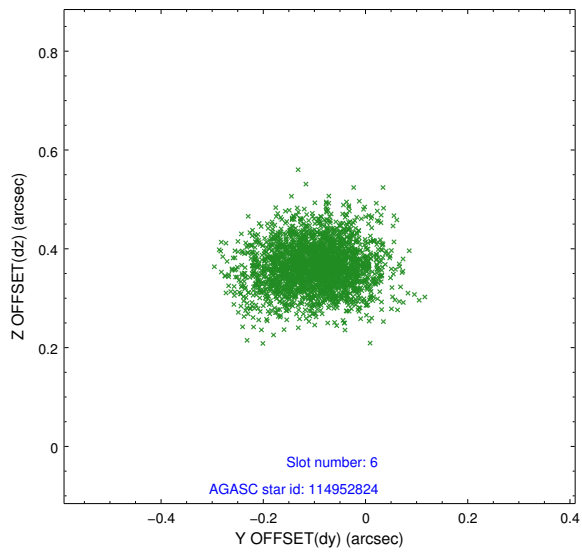
2.4.2 Slot 4



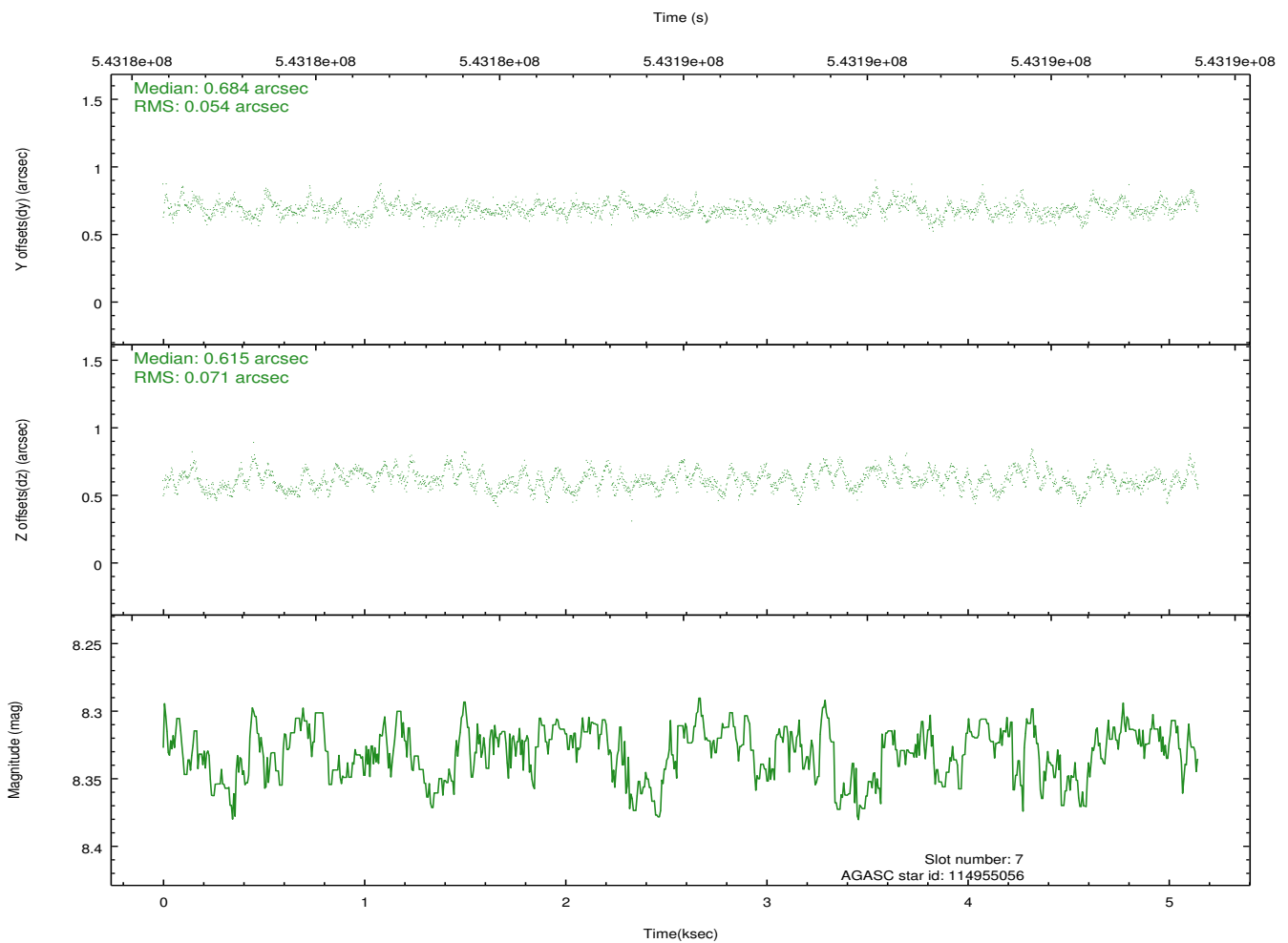
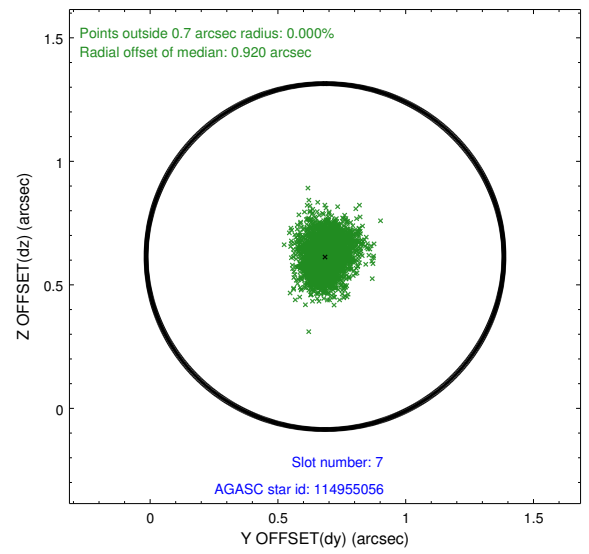
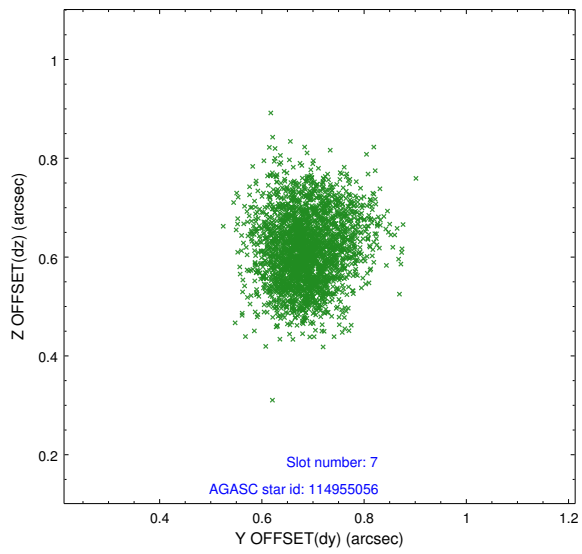
2.4.3 Slot 5



2.4.4 Slot 6

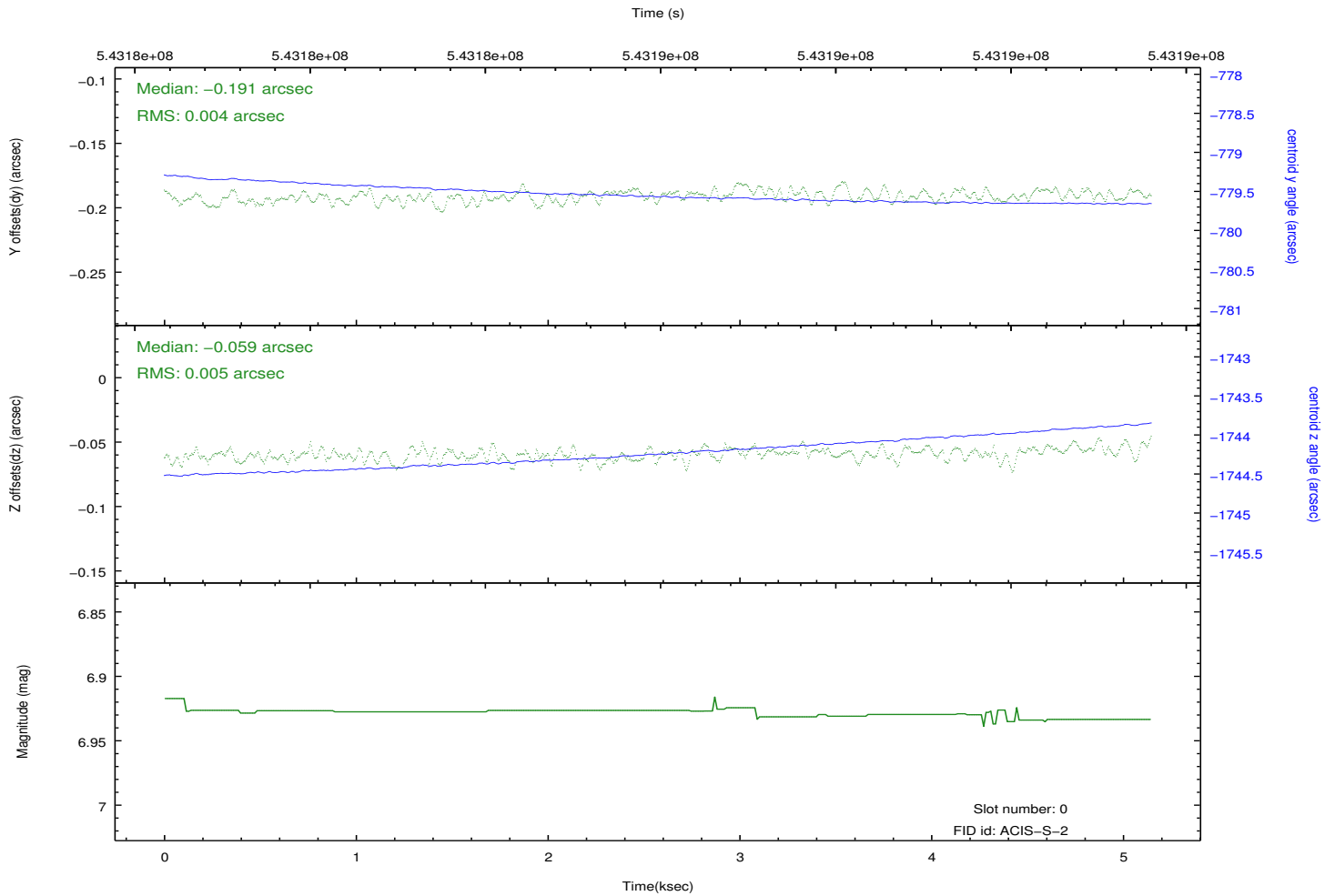
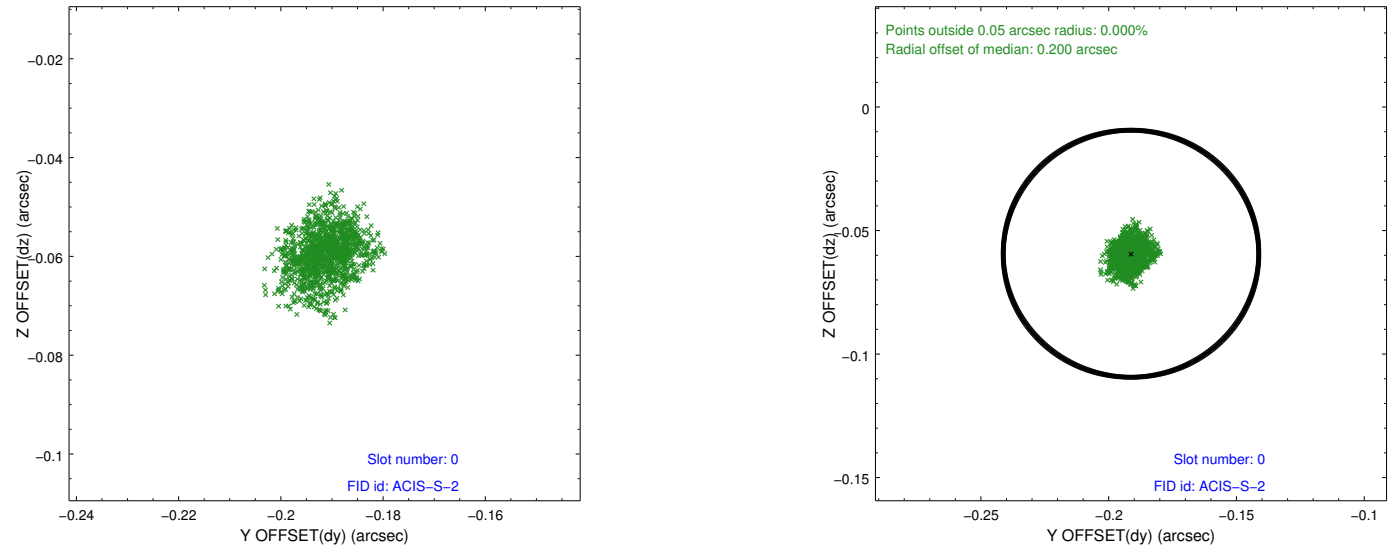


2.4.5 Slot 7

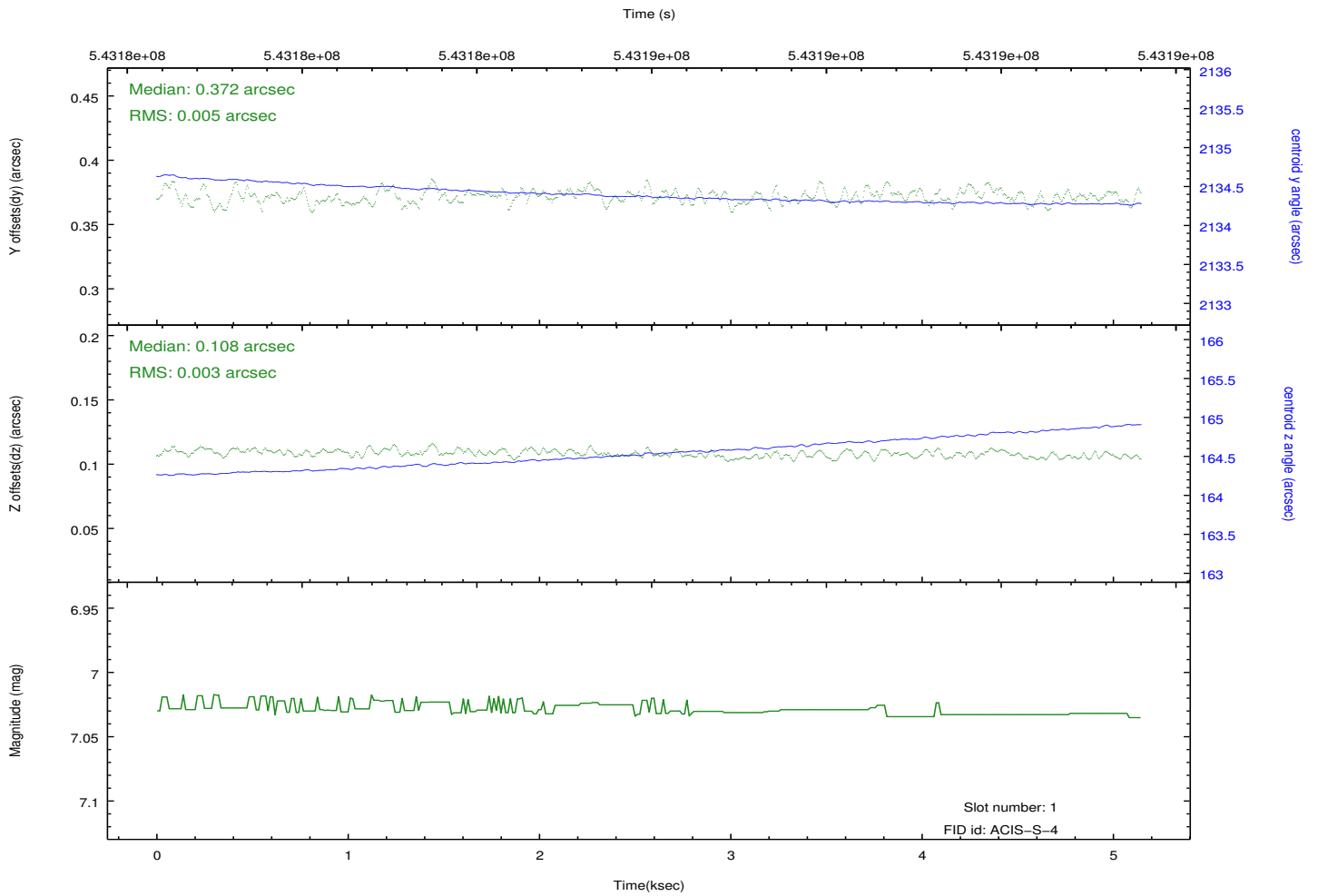
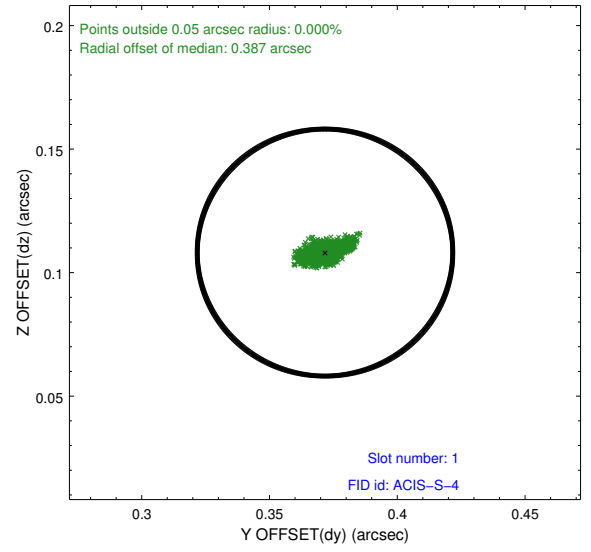
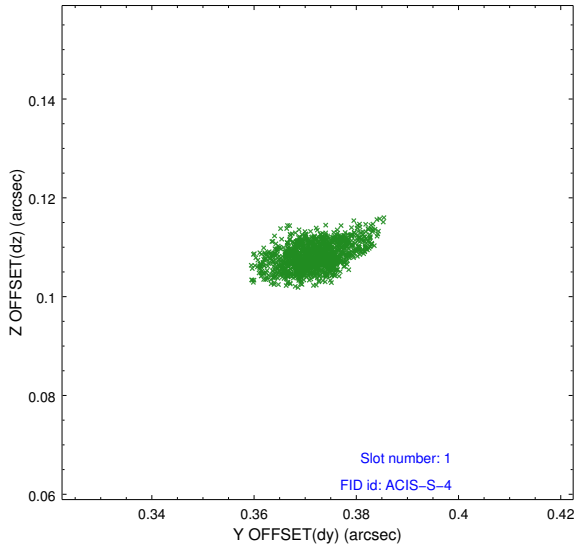


2.5 FID Slots

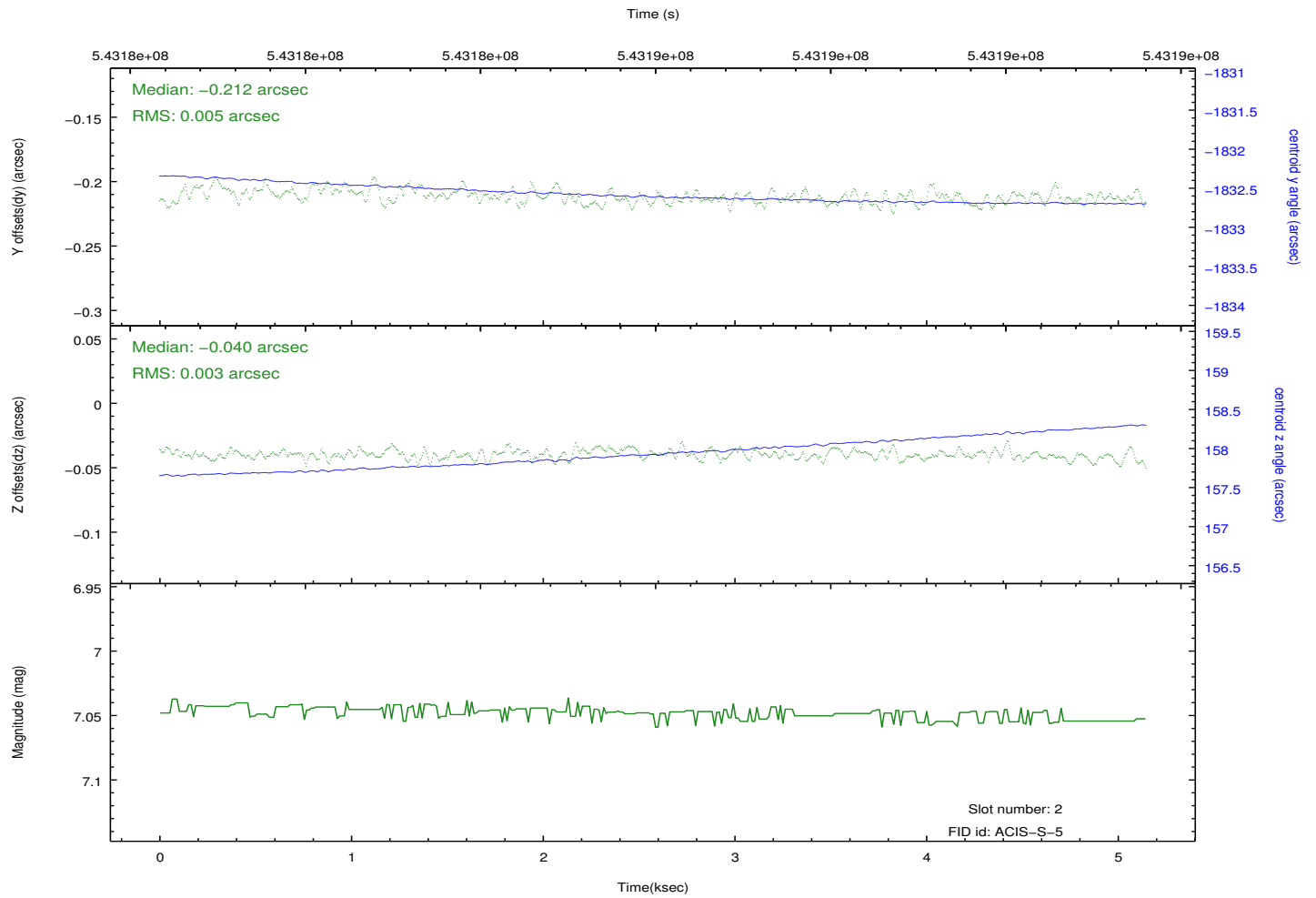
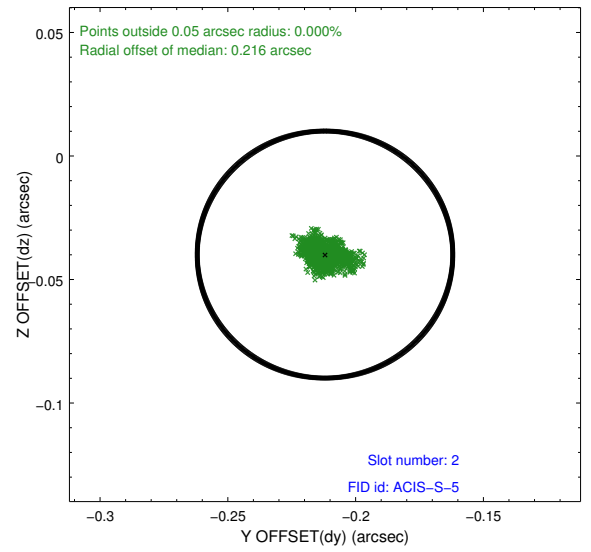
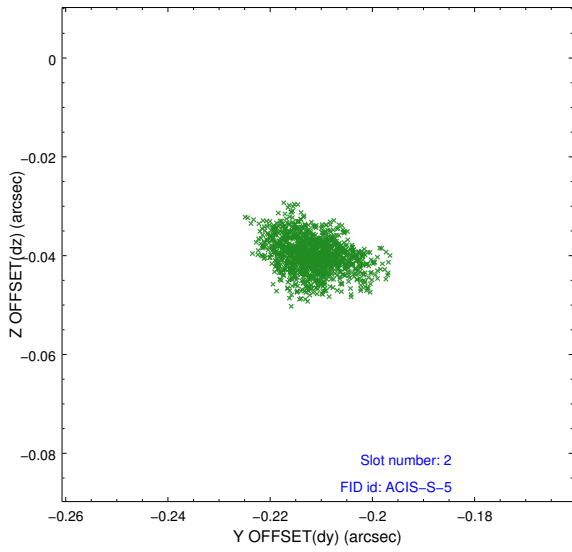
2.5.1 Slot 0



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)	2015.03.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0703730741739

A.2 Comments

Monitor constraint met.