

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 7349 - L2 Version 3  
Chandra X-Ray Center

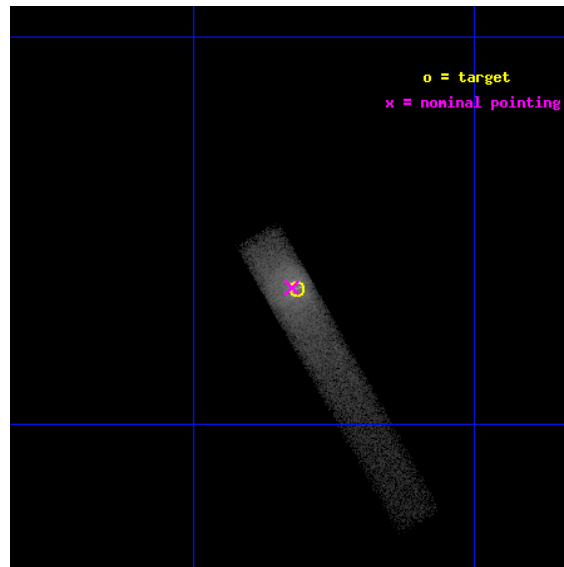
L2 Processing Date : Apr 16 2012

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# 1 Front

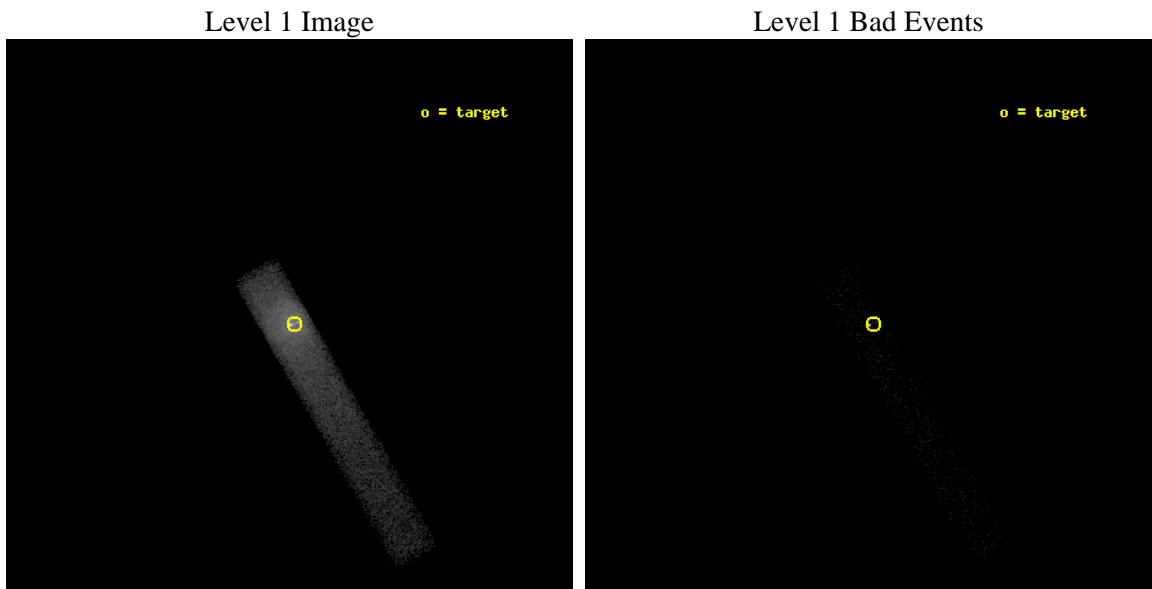
seq_num	701339	Sequence number
obs_id	7349	Observation id
title	HST/Chandra Monitoring of a Dramatic Flare in the M87 Jet	Proposal
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.70631445795	Nominal RA [deg]
dec_nom	12.392011256477	Nominal Dec [deg]
roll_nom	60.156209110472	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5165.1996921301	Sum of GTIs [s]
livetime	4684.5634791675	Livetime [s]
ontime7	5165.1996921301	Sum of GTIs [s]
l2events	58724	Number of level 2 events



## 2 OBI

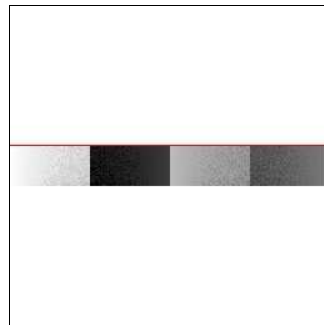
### 2.1 OBI

#### 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	8.4.3.1	Processing system revision	ontime	5165.1996921301	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime7	5165.1996921301	Sum of GTIs [s]
date	2012-04-16T13:32:08	Date and time of file creation	l1events	69418	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

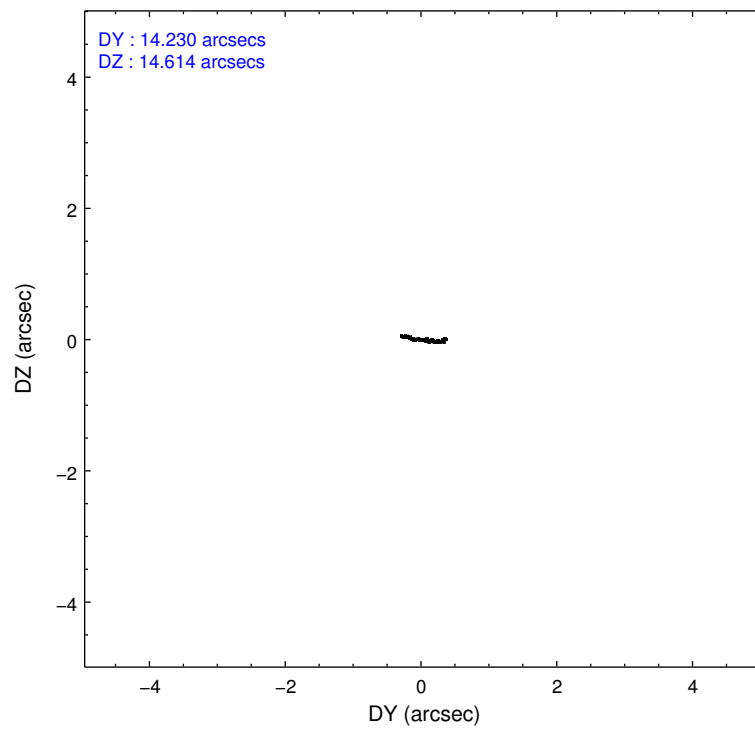
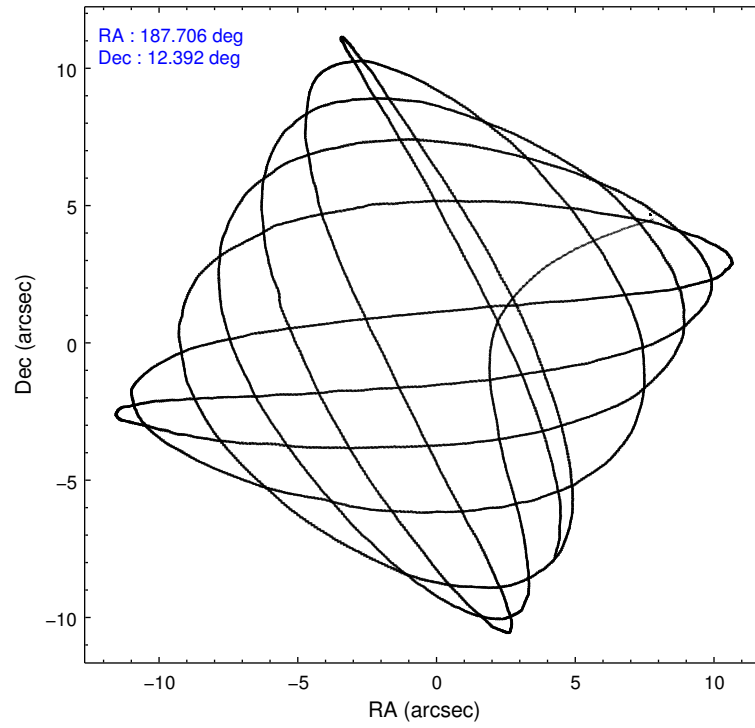
	<b>ccd 7</b>
level 1 events	69418
rejected events	10181
rejected %	14%

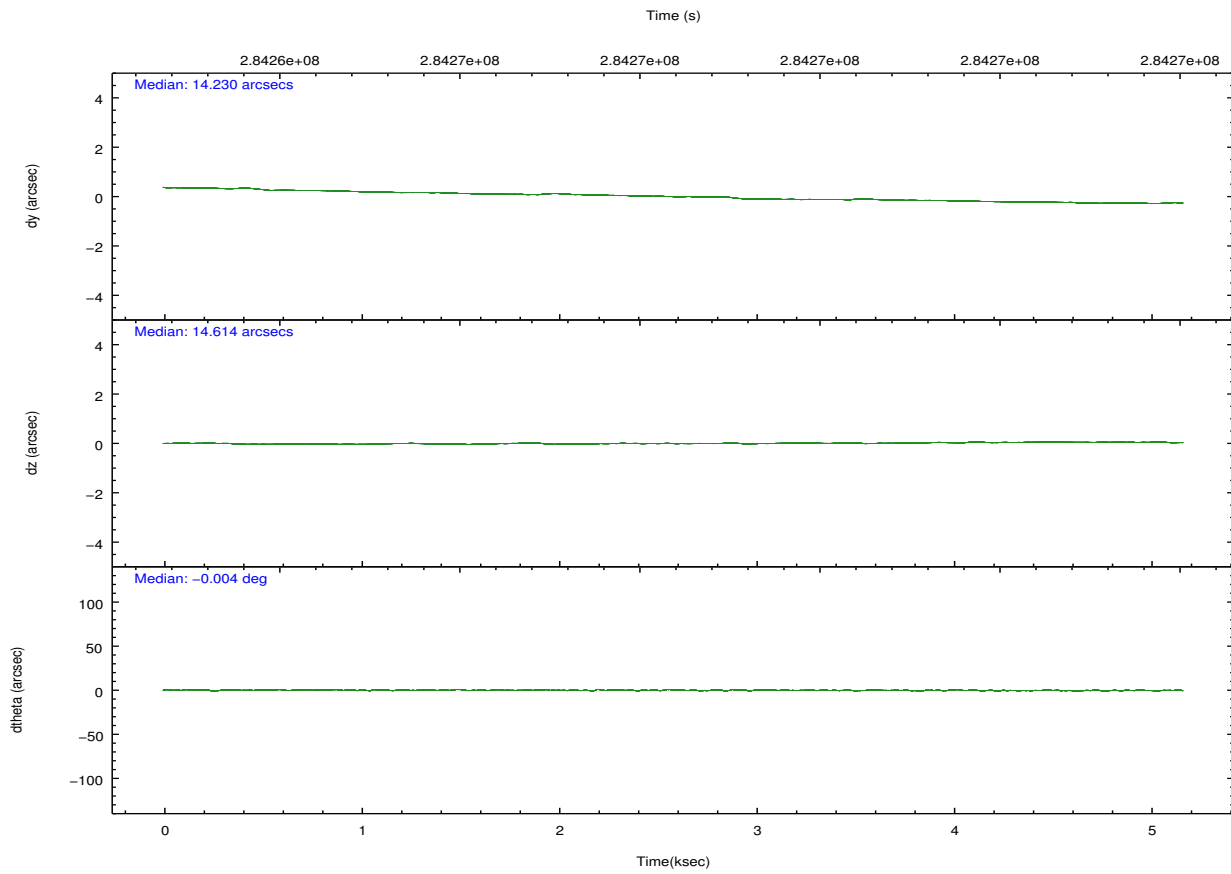
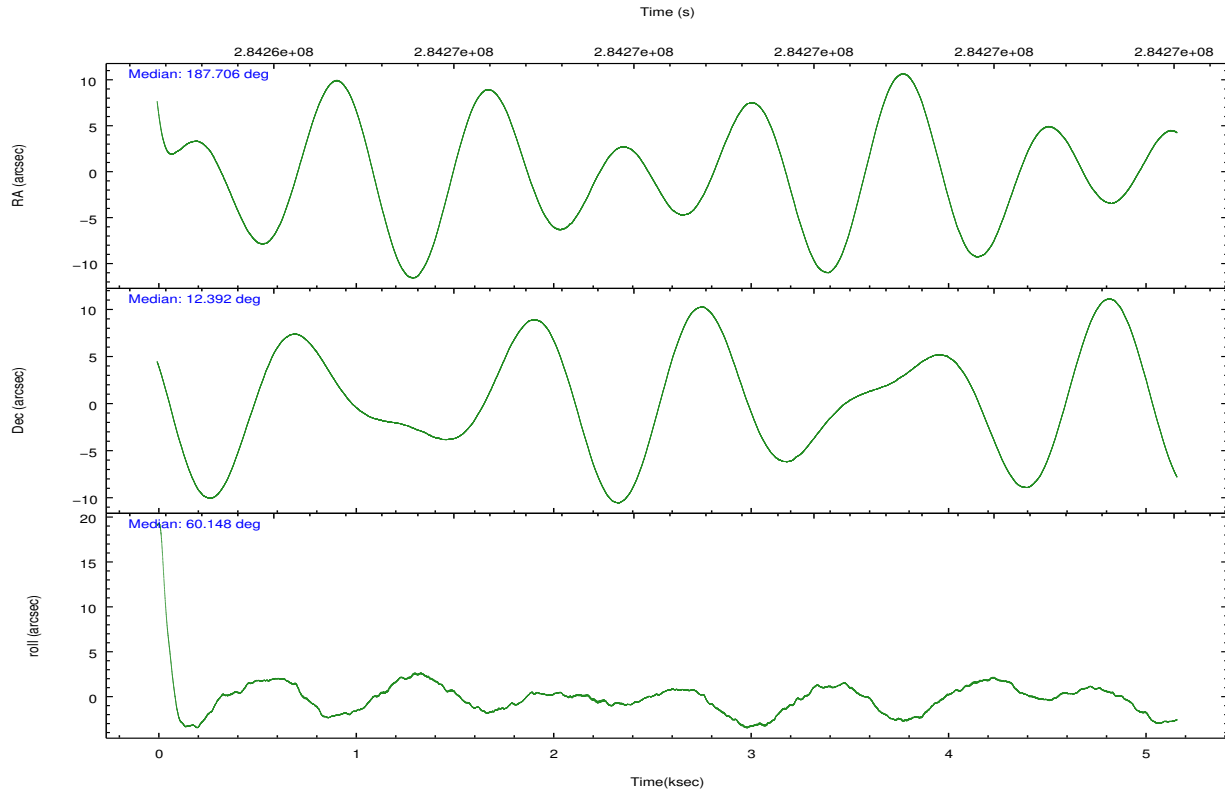
	<b>ccd 7</b>
grade 0 events	17713
	25%
grade 1 events	317
	0%
grade 2 events	15668
	22%
grade 3 events	7256
	10%
grade 4 events	7103
	10%
grade 5 events	2295
	3%
grade 6 events	13564
	19%
grade 7 events	5502
	7%

## 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	187.706745	187.7063144579537	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.364686	12.39201125647706	Subarray start row	449	449
[deg] Pointing Roll	59.999446	60.15620911047176	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)	284264765.184000	284263791.40524			
Observation start date	2007-01-04T02:25:00	2007-01-04T02:09:51			
[s] Observation end time (MET)	284269765.184000	284270528.73056			
Observation end date	2007-01-04T03:48:20	2007-01-04T04:02:08			
Read mode	TIMED	TIMED			

## 2.3 Aspect



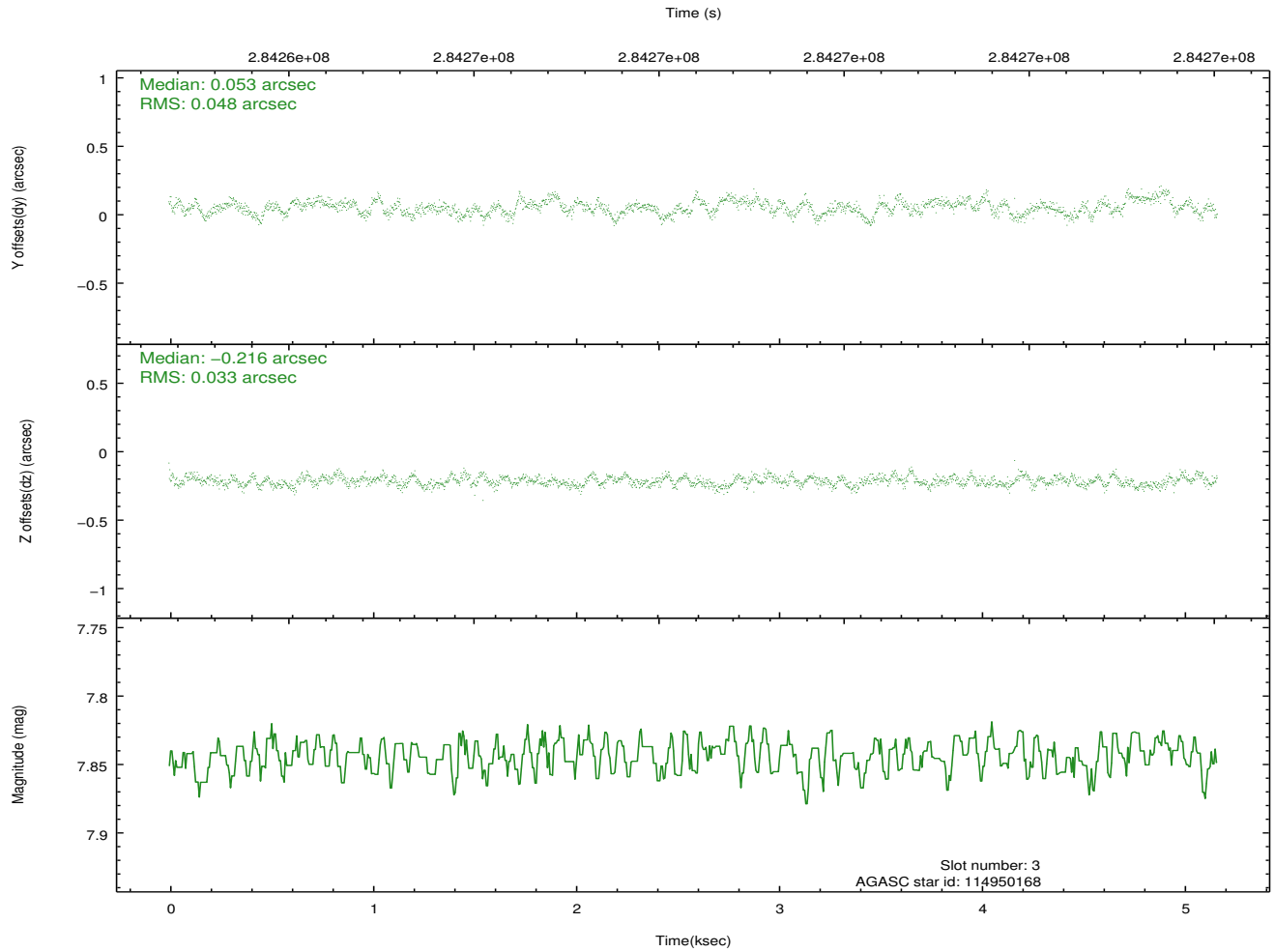
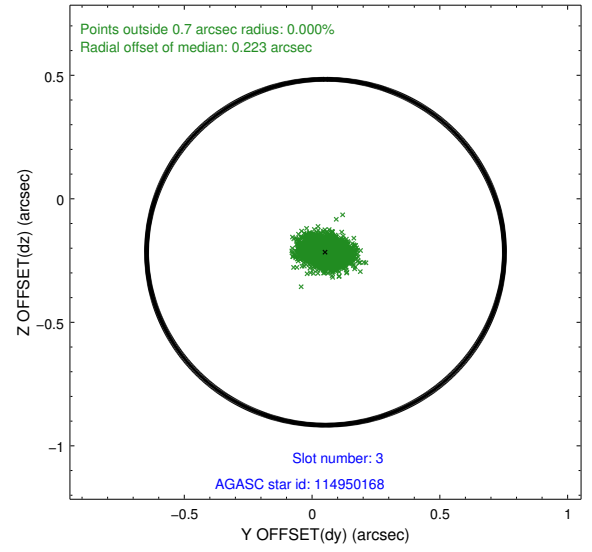
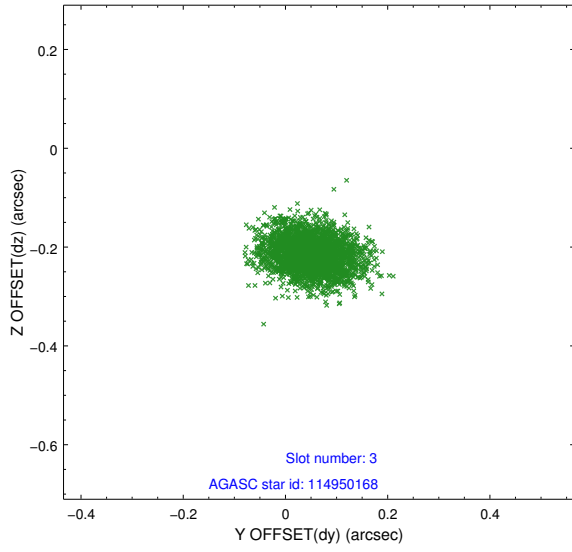


### Slot Statistics

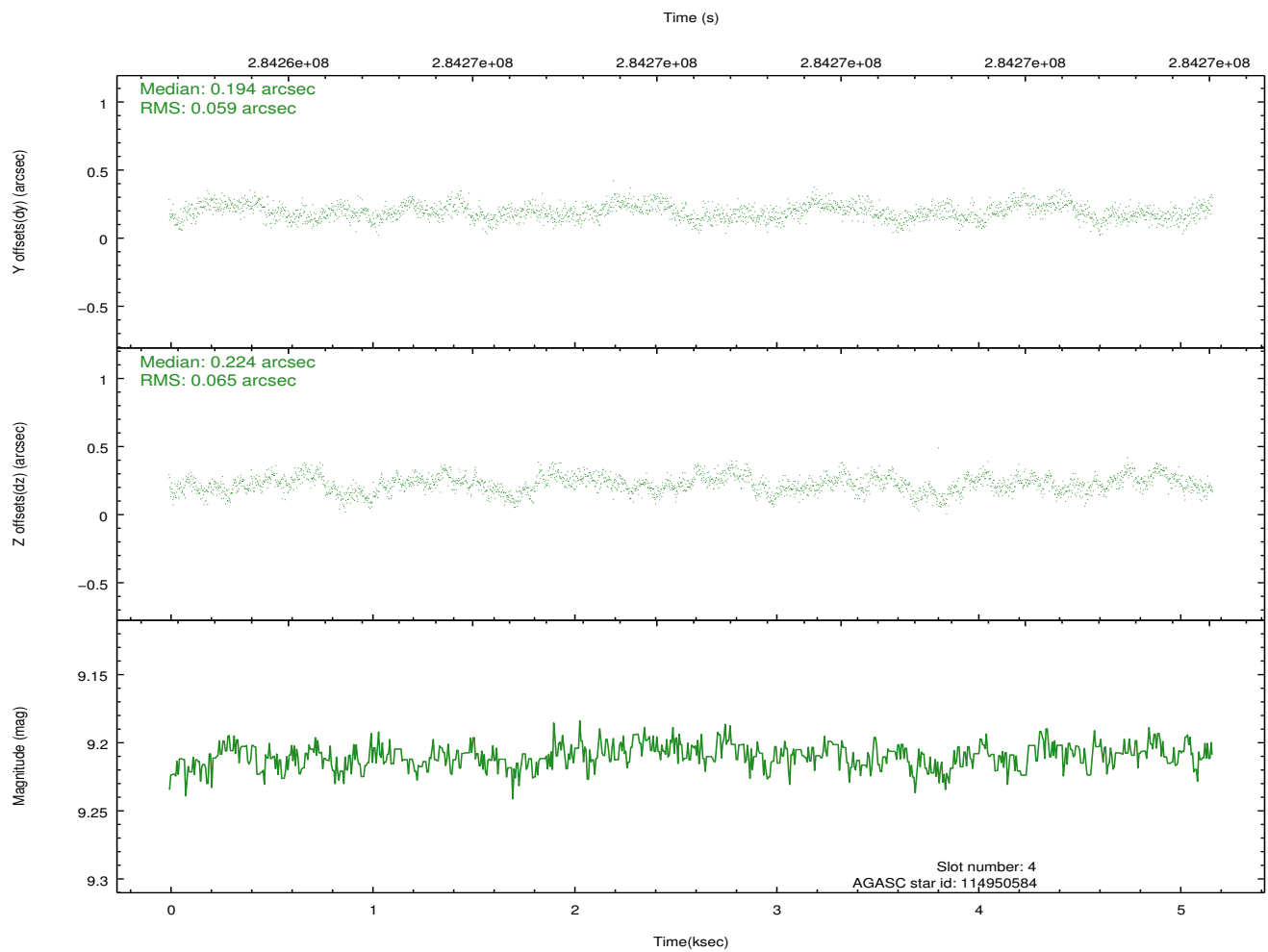
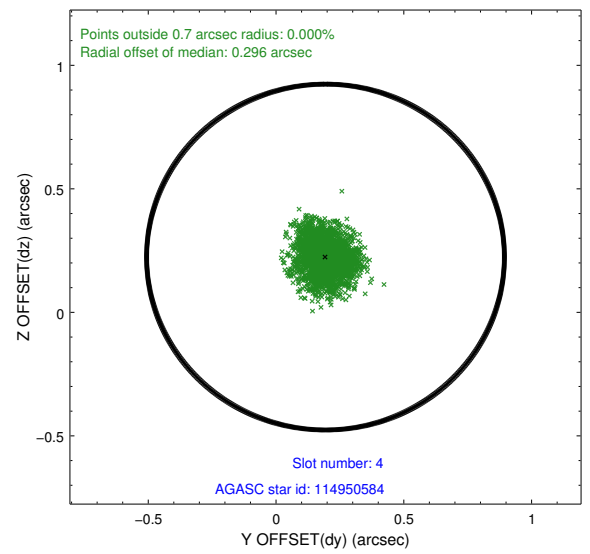
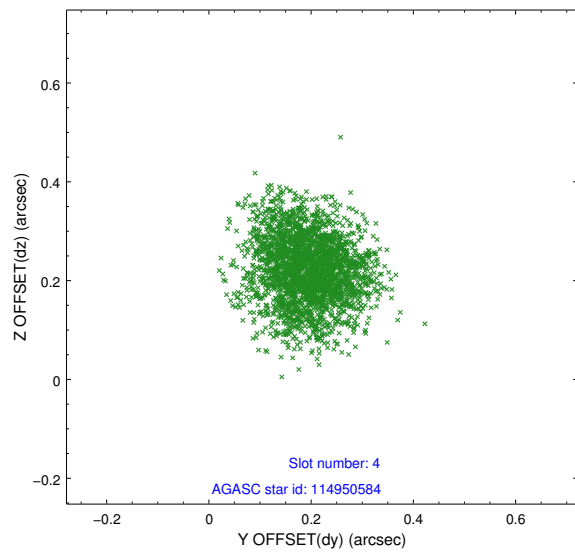
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1260	-0.089	-0.058	0.010	0.017	0.000000	0.000000	-767.26	-1736.05
1	FID	ACIS-S-4	7.20	1260	0.245	0.059	0.008	0.015	0.000000	0.000000	2145.80	171.35
2	FID	ACIS-S-5	7.22	1260	-0.187	0.008	0.007	0.012	0.000000	0.000000	-1818.71	166.28
3	GUIDE	114950168	7.84	2521	0.053	-0.216	0.062	0.102	187.143398	12.117441	-1760.59	1273.17
4	GUIDE	114950584	9.21	2519	0.194	0.224	0.095	0.150	187.487323	11.827248	-2062.35	-296.58
5	GUIDE	114952824	8.57	2521	-0.195	-0.183	0.063	0.100	187.703904	12.486727	374.42	228.79
6	GUIDE	114955056	8.34	2521	-0.114	0.409	0.067	0.109	187.914001	12.127854	-373.08	-1056.87
7	GUIDE	114957008	8.24	2520	0.064	-0.228	0.074	0.120	186.894794	12.099160	-2253.75	1999.32

## 2.4 Star Slots

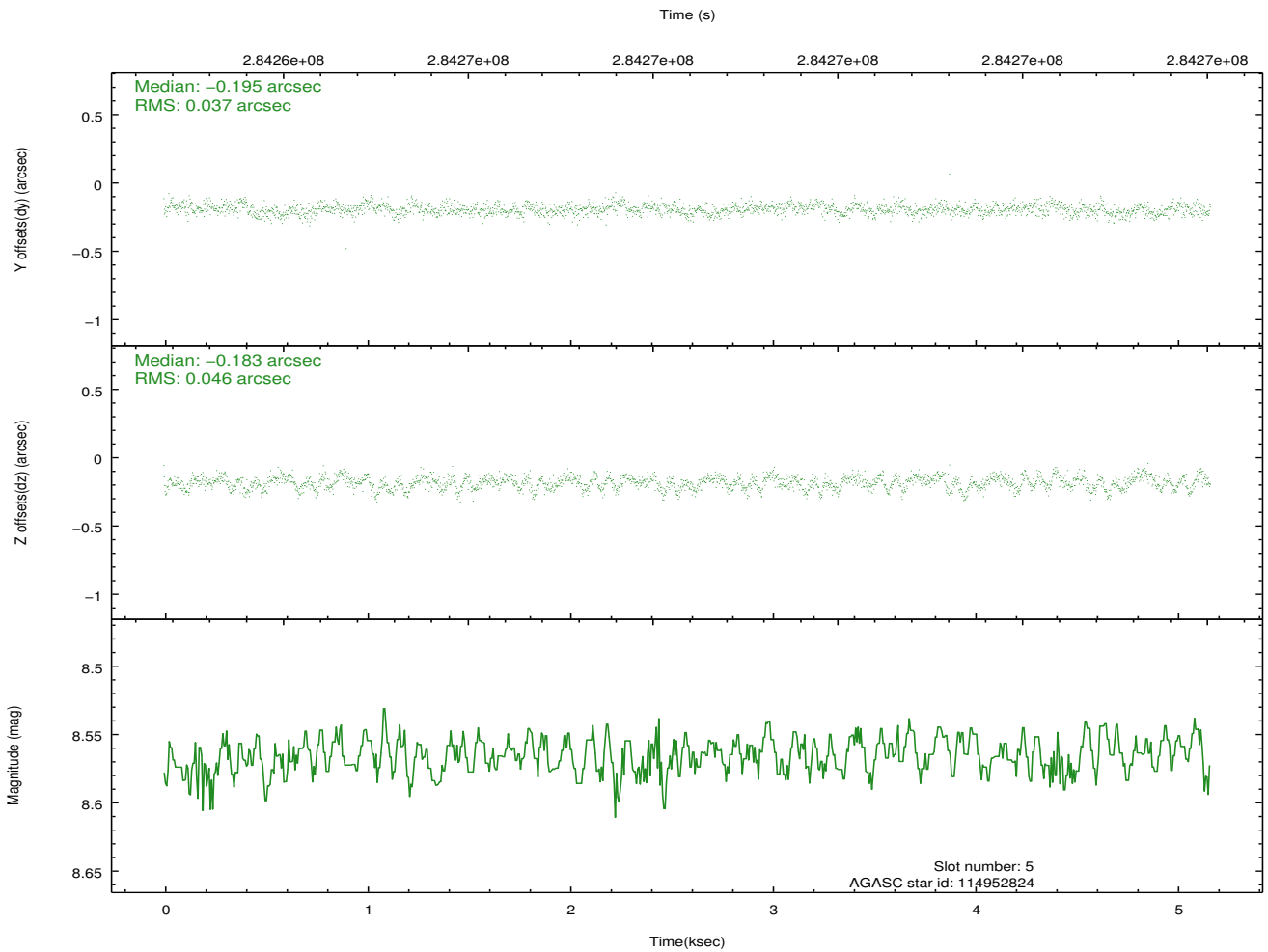
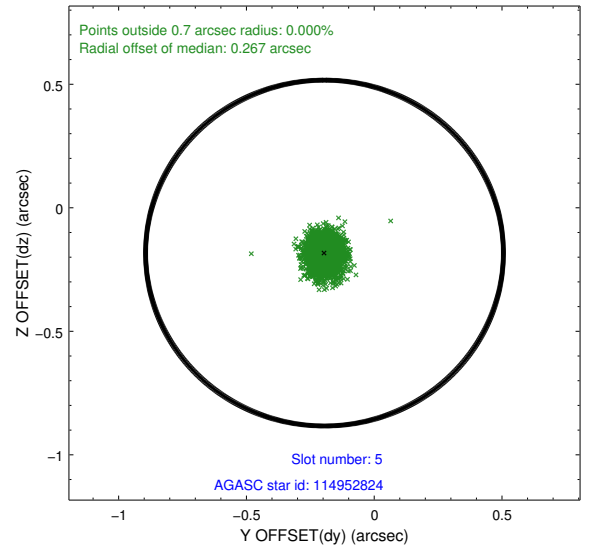
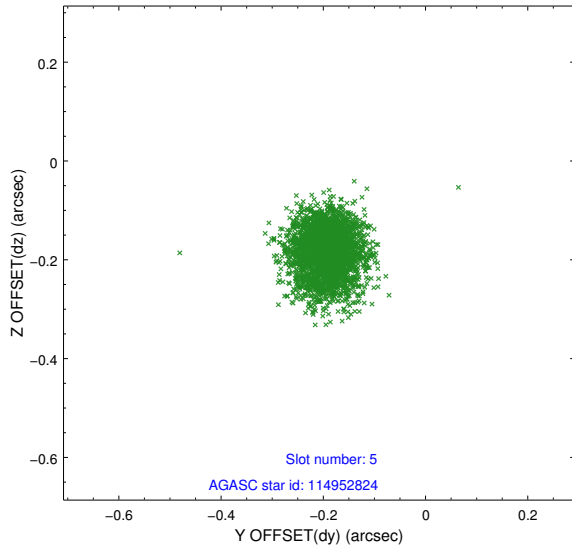
### 2.4.1 Slot 3



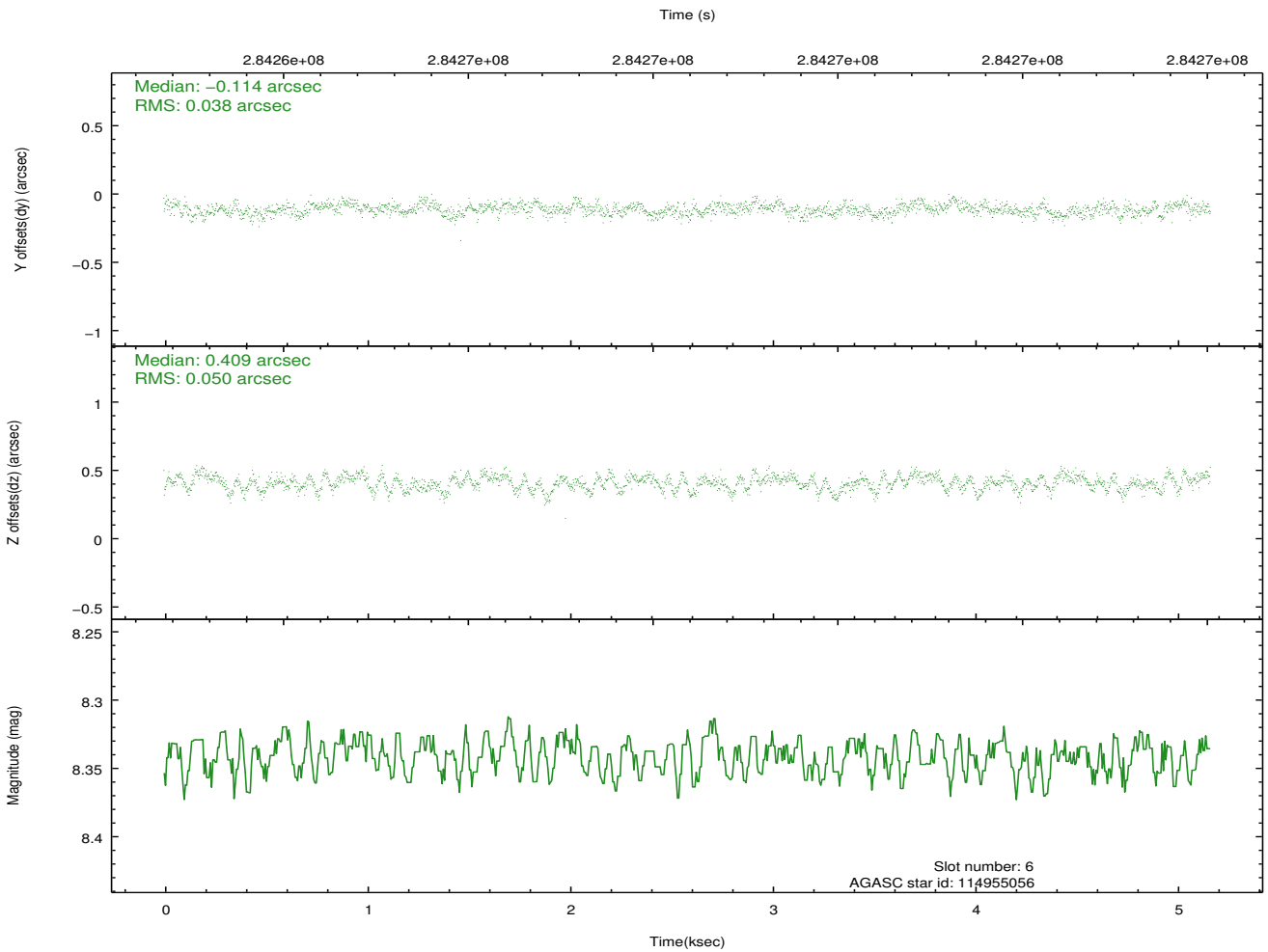
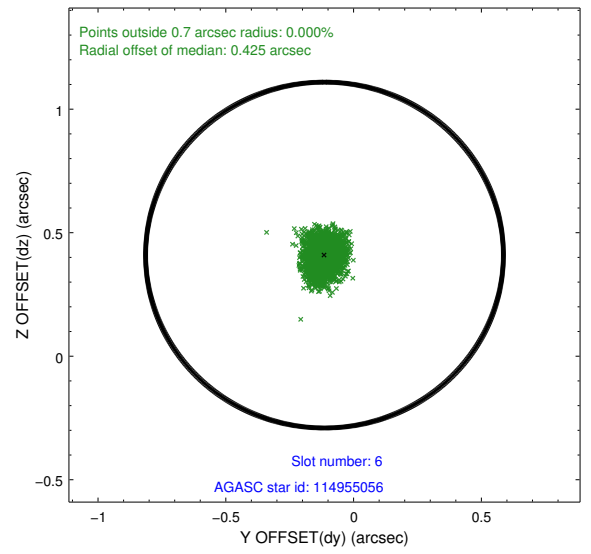
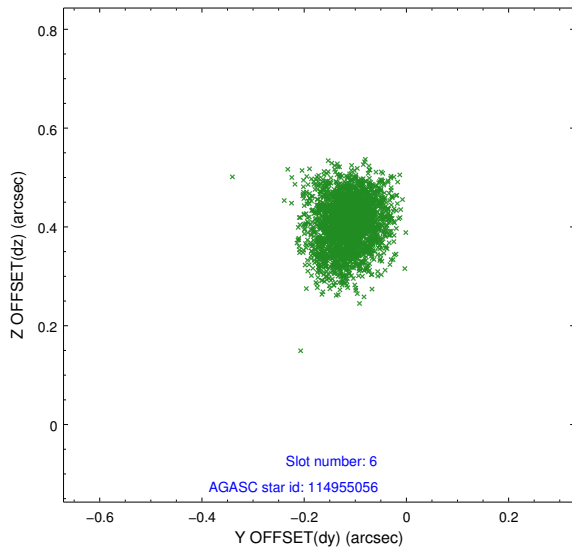
## 2.4.2 Slot 4



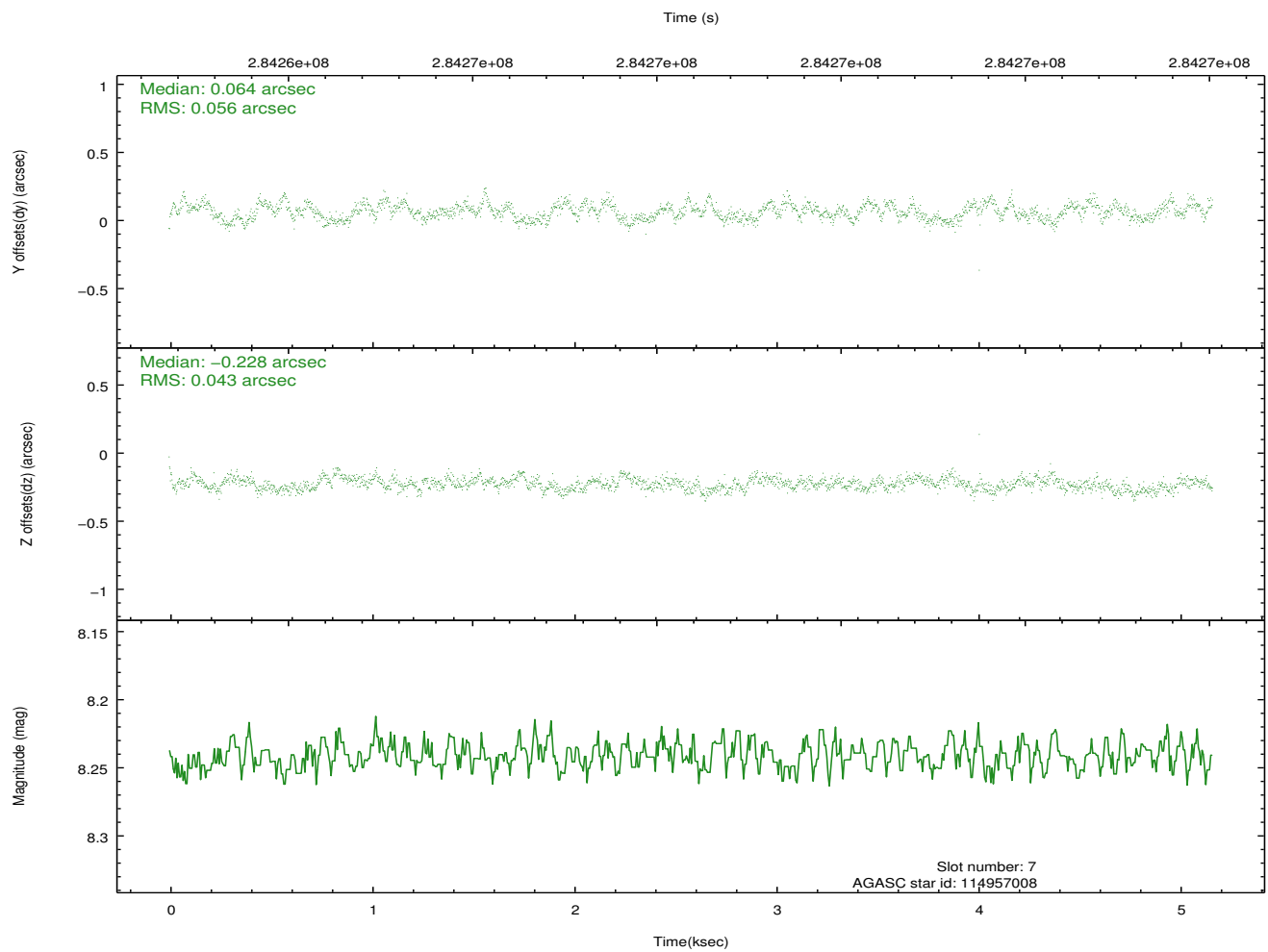
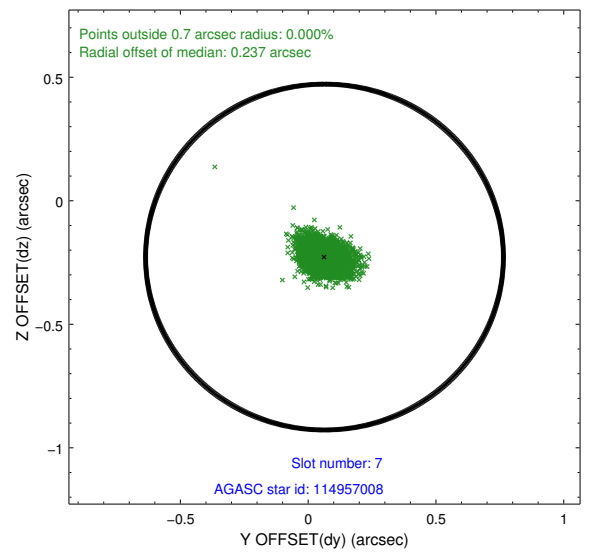
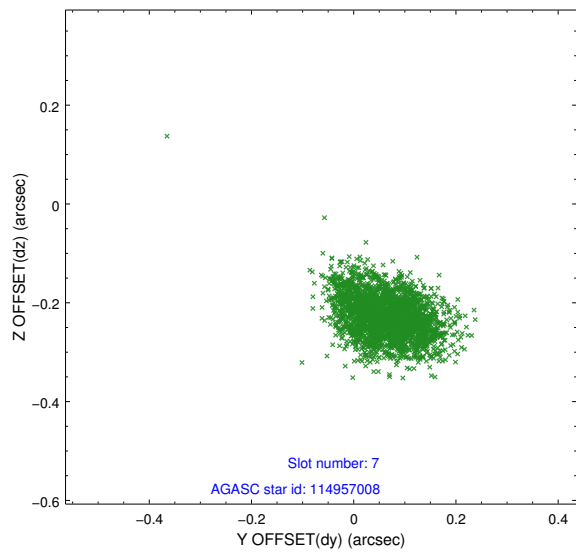
### 2.4.3 Slot 5



### 2.4.4 Slot 6

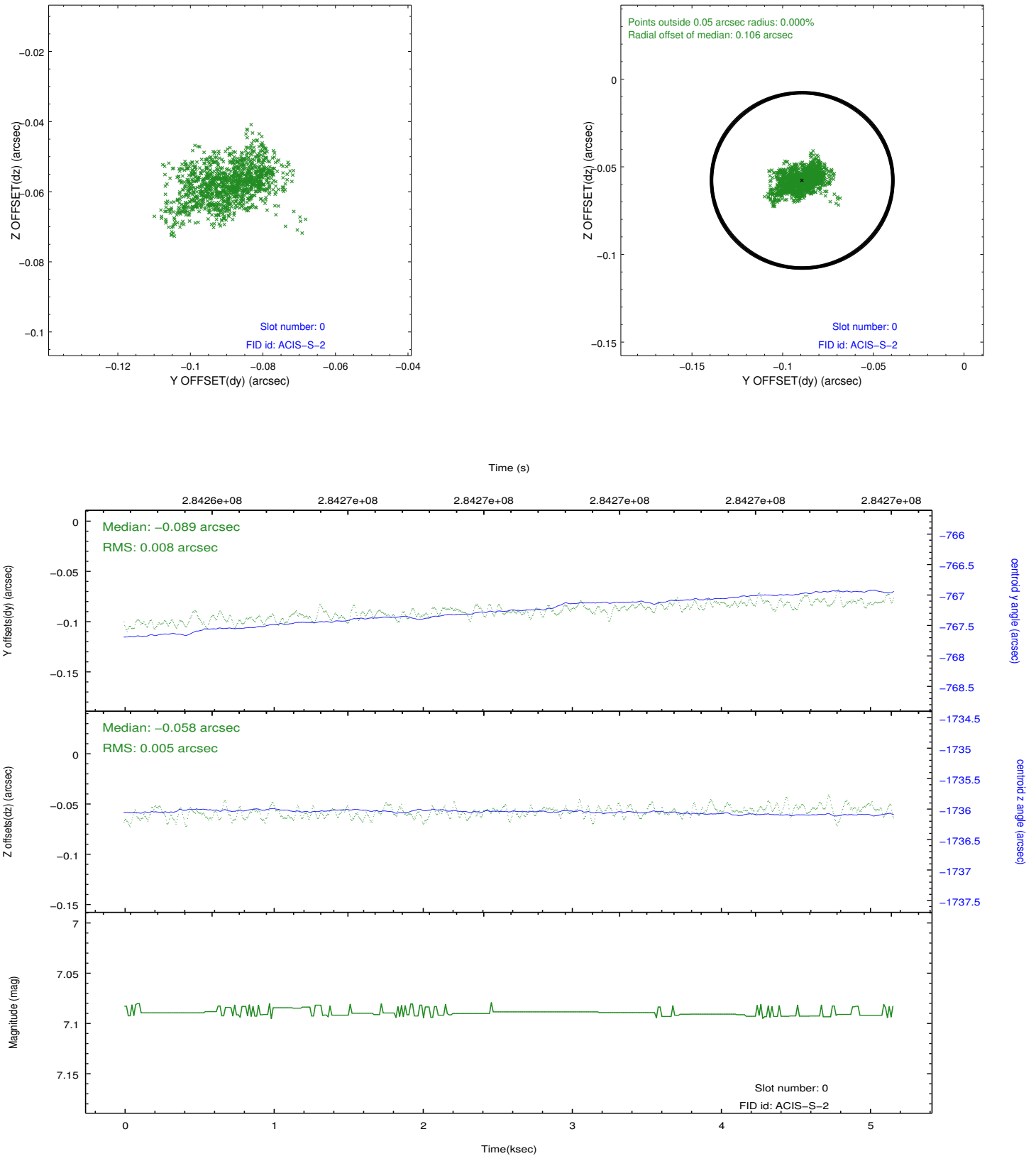


## 2.4.5 Slot 7

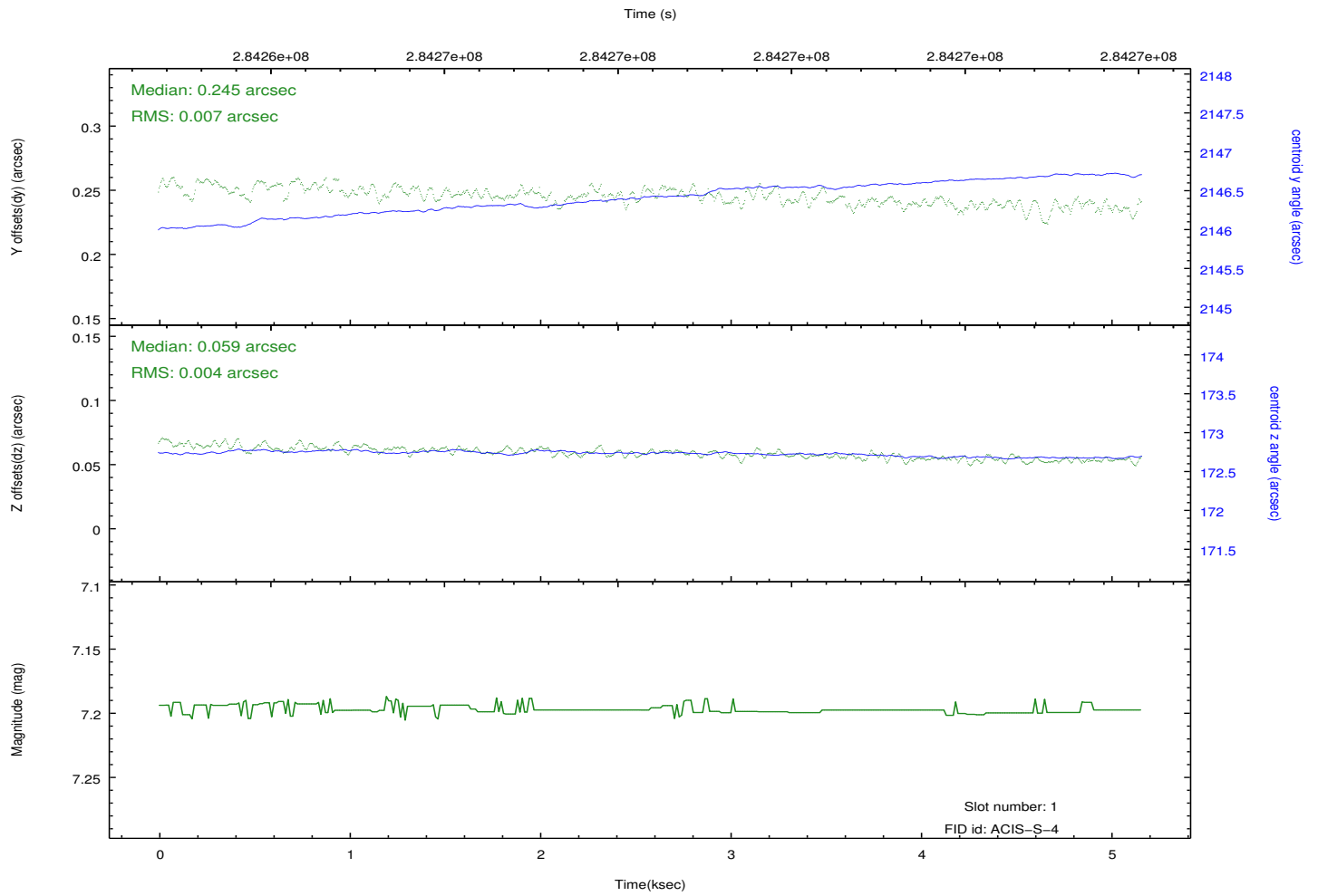
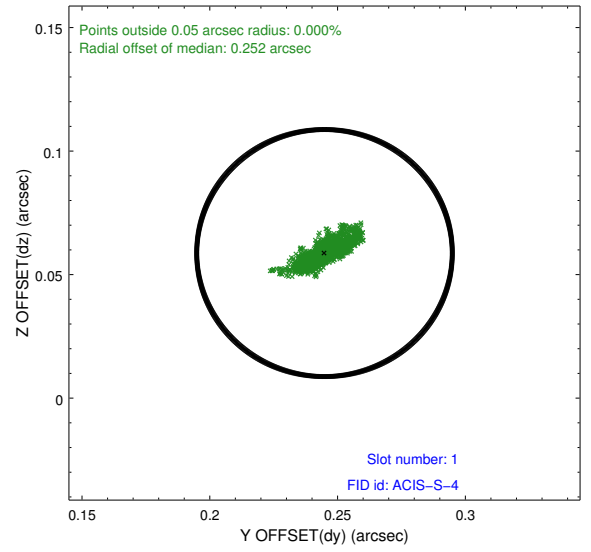
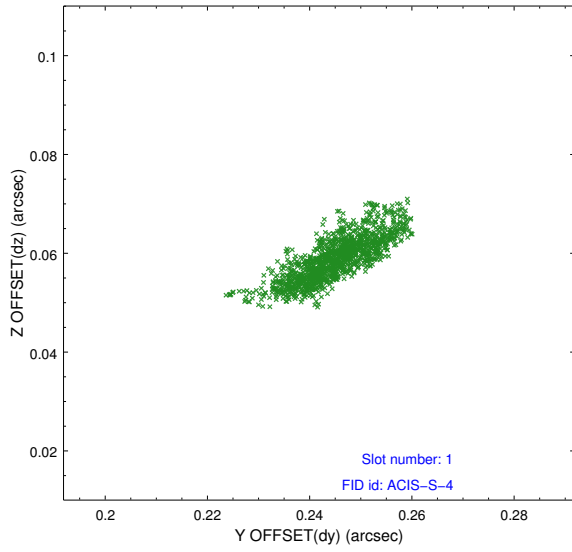


## 2.5 FID Slots

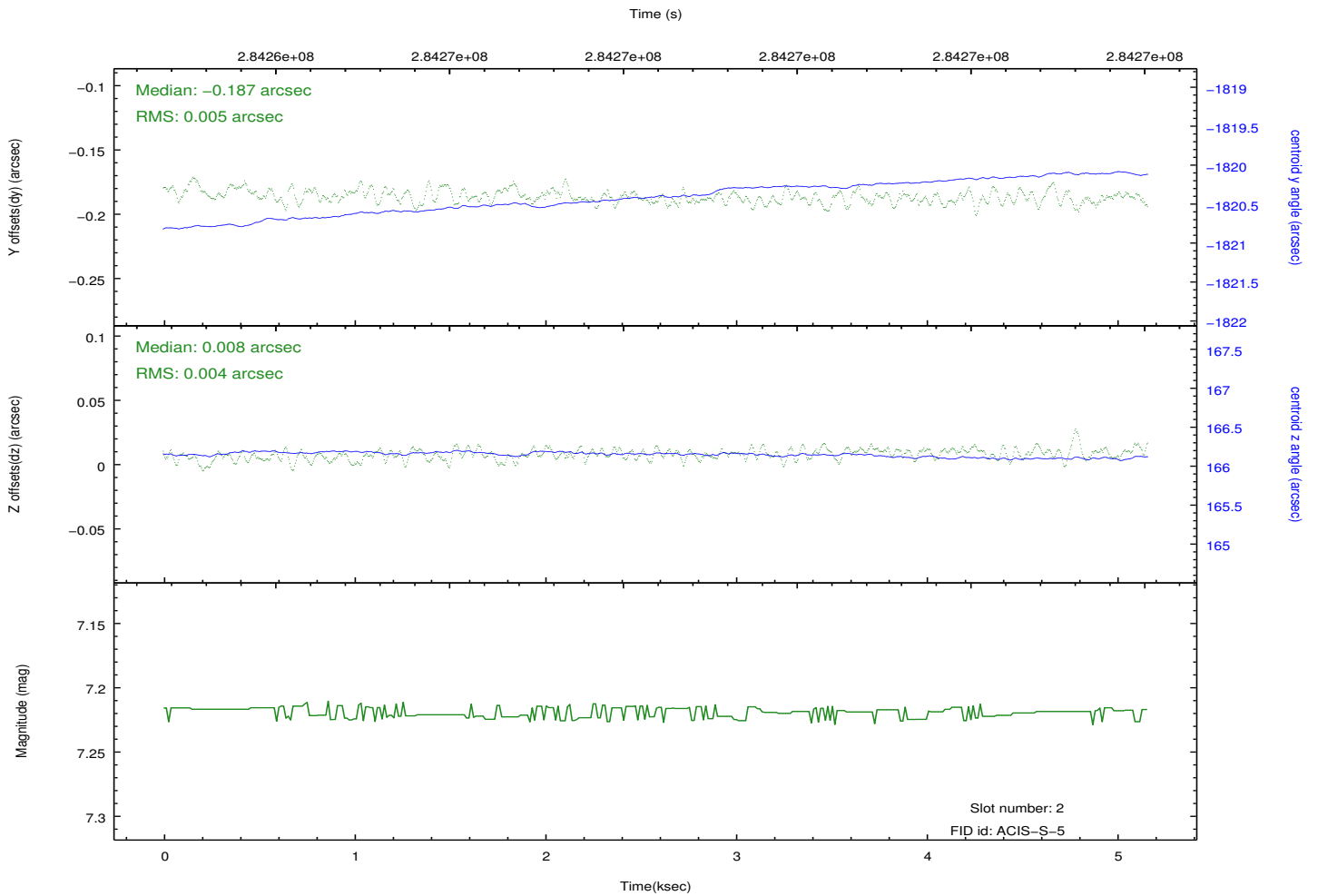
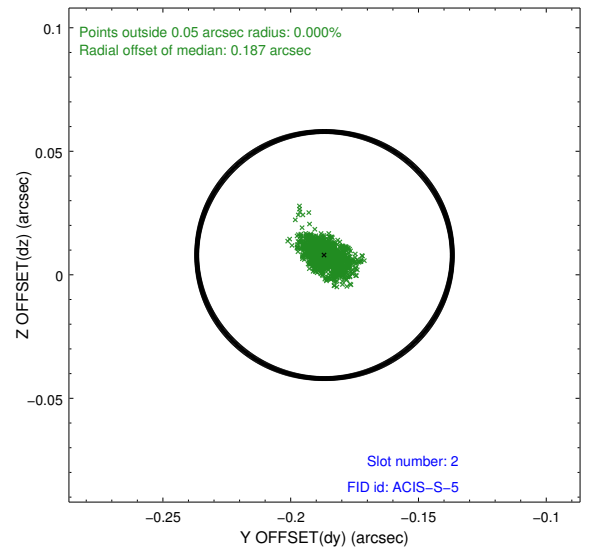
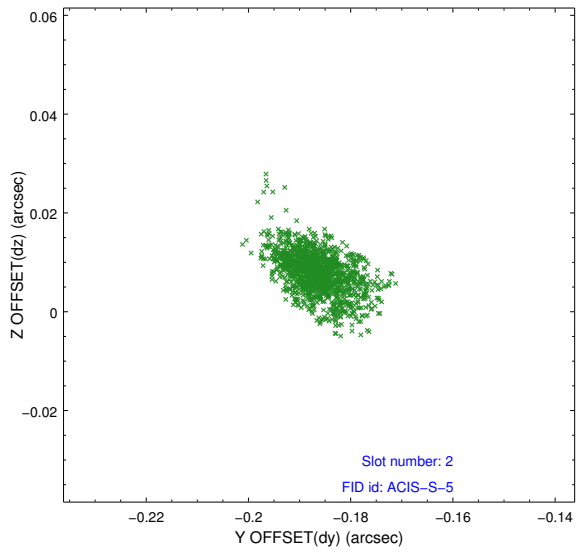
### 2.5.1 Slot 0



## 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)	2012.04.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.16519969

## A.2 Comments