

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 1615 - L2 Version 3  
Chandra X-Ray Center

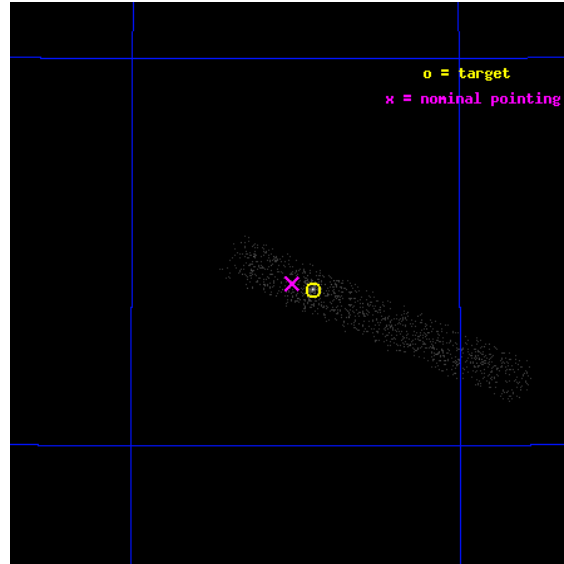
L2 Processing Date : Sep 24 2012

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# 1 Front

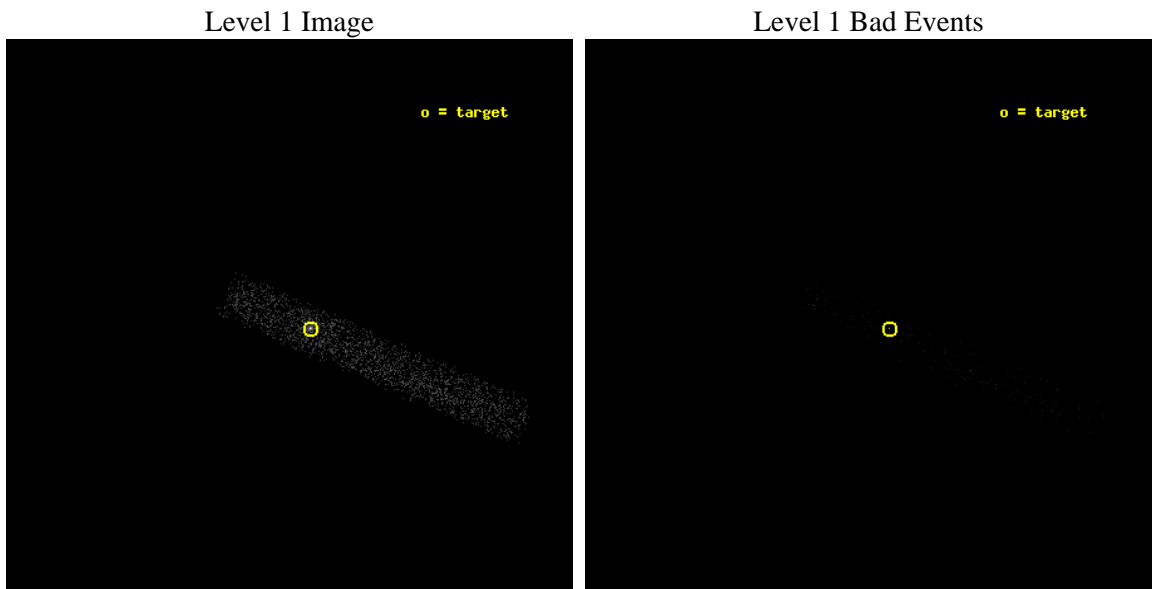
seq_num	700231	Sequence number
obs_id	1615	Observation id
title	STUDIES OF RADIO JETS AND THE NARROW LINE REGIONS OF ACTIVE GALAXIES	&#160
observer	Professor Andrew Wilson	Principal investigator
object	NGC3147	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	154.223333	Observer's specified target RA [deg]
dec_targ	73.40075	Observer's specified target Dec [deg]
ra_nom	154.25586029905	Nominal RA [deg]
dec_nom	73.403045405031	Nominal Dec [deg]
roll_nom	23.385528391437	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2428.400036186	Sum of GTIs [s]
livetime	2202.4306513568	Livetime [s]
ontime7	2428.400036186	Sum of GTIs [s]
l2events	2597	Number of level 2 events



## 2 OBI

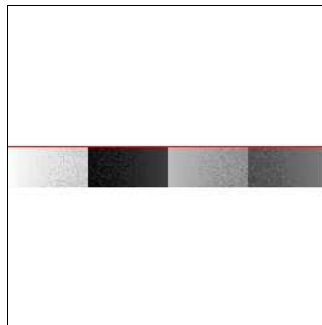
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2025.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2428.400036186	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime7	2428.400036186	Sum of GTIs [s]
date	2012-09-24T10:28:35	Date and time of file creation	l1events	4623	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

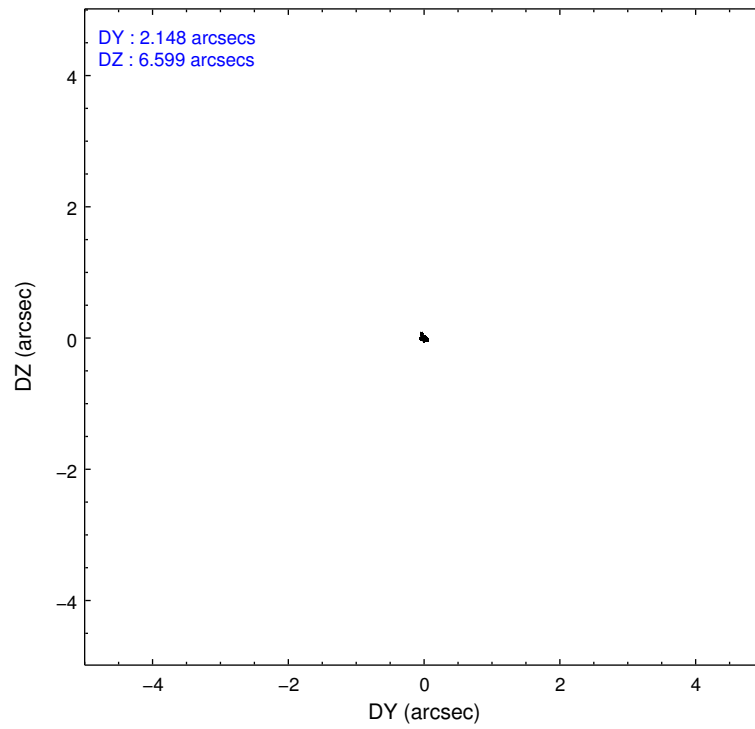
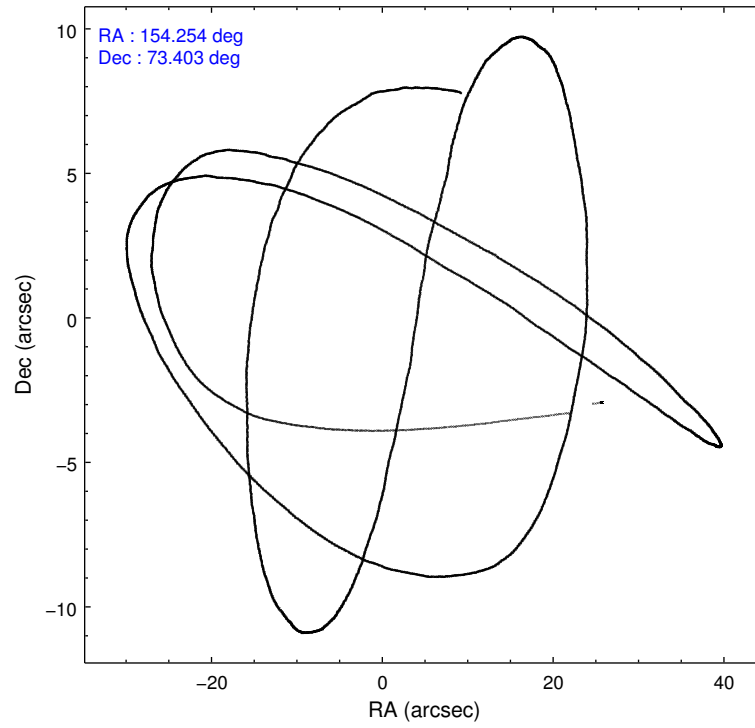
	<b>ccd 7</b>
level 1 events	4623
rejected events	1979
rejected %	42%

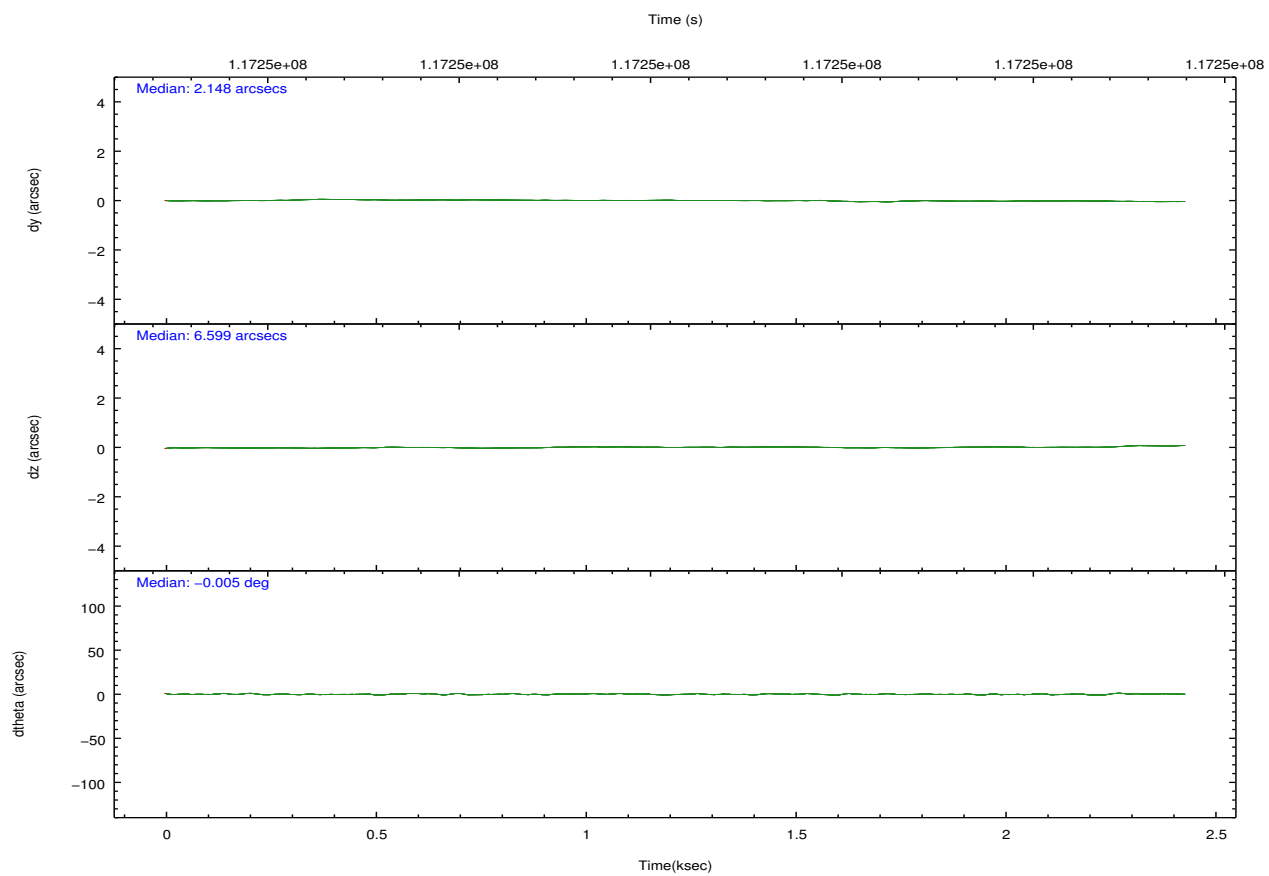
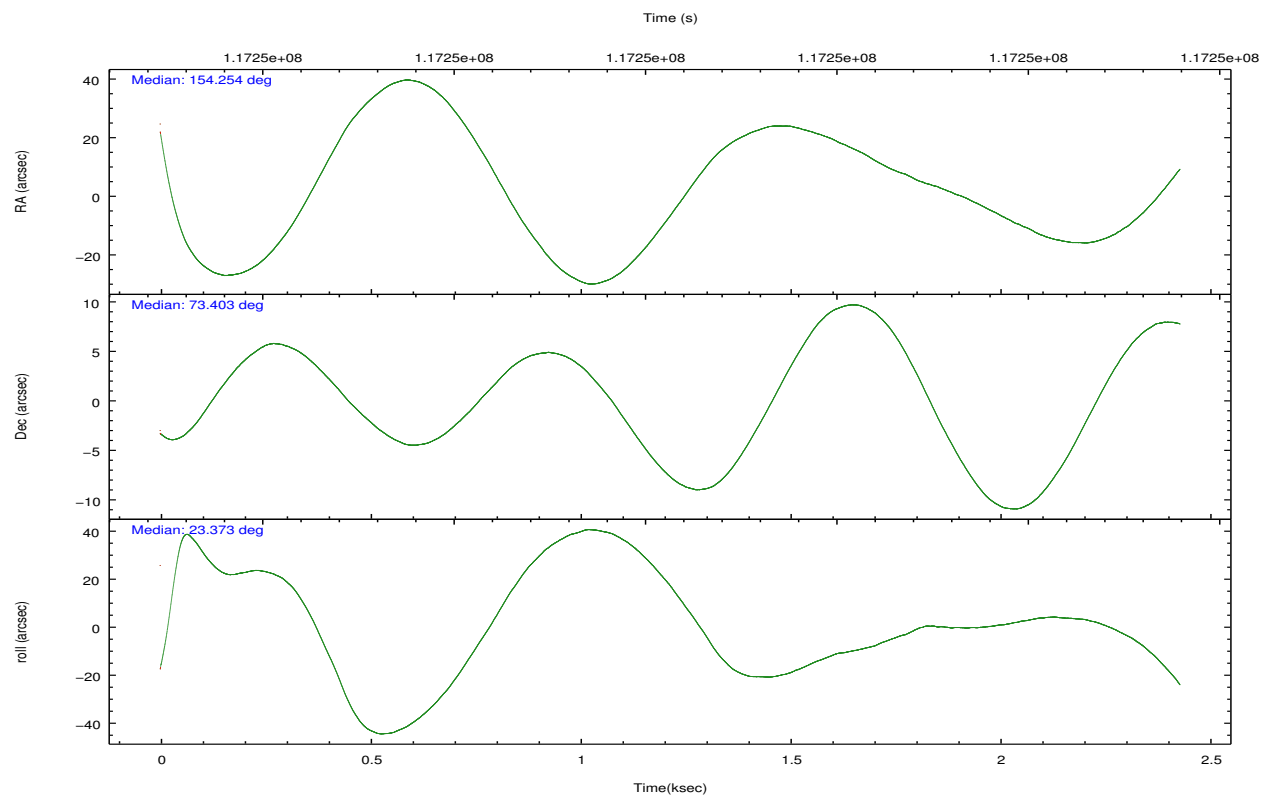
	<b>ccd 7</b>
grade 0 events	634
	13%
grade 1 events	14
	0%
grade 2 events	632
	13%
grade 3 events	357
	7%
grade 4 events	354
	7%
grade 5 events	332
	7%
grade 6 events	960
	20%
grade 7 events	1340
	28%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	154.200540	154.2558602990538	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	73.380891	73.40304540503135	Subarray start row	447	447
[deg] Pointing Roll	23.281827	23.38552839143668	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)	117247754.184000	117246665.82869			
Observation start date	2001-09-19T00:48:10	2001-09-19T00:31:05			
[s] Observation end time (MET)	117249779.184000	117250705.35385			
Observation end date	2001-09-19T01:21:55	2001-09-19T01:38:25			
Read mode	TIMED	TIMED			

## 2.3 Aspect



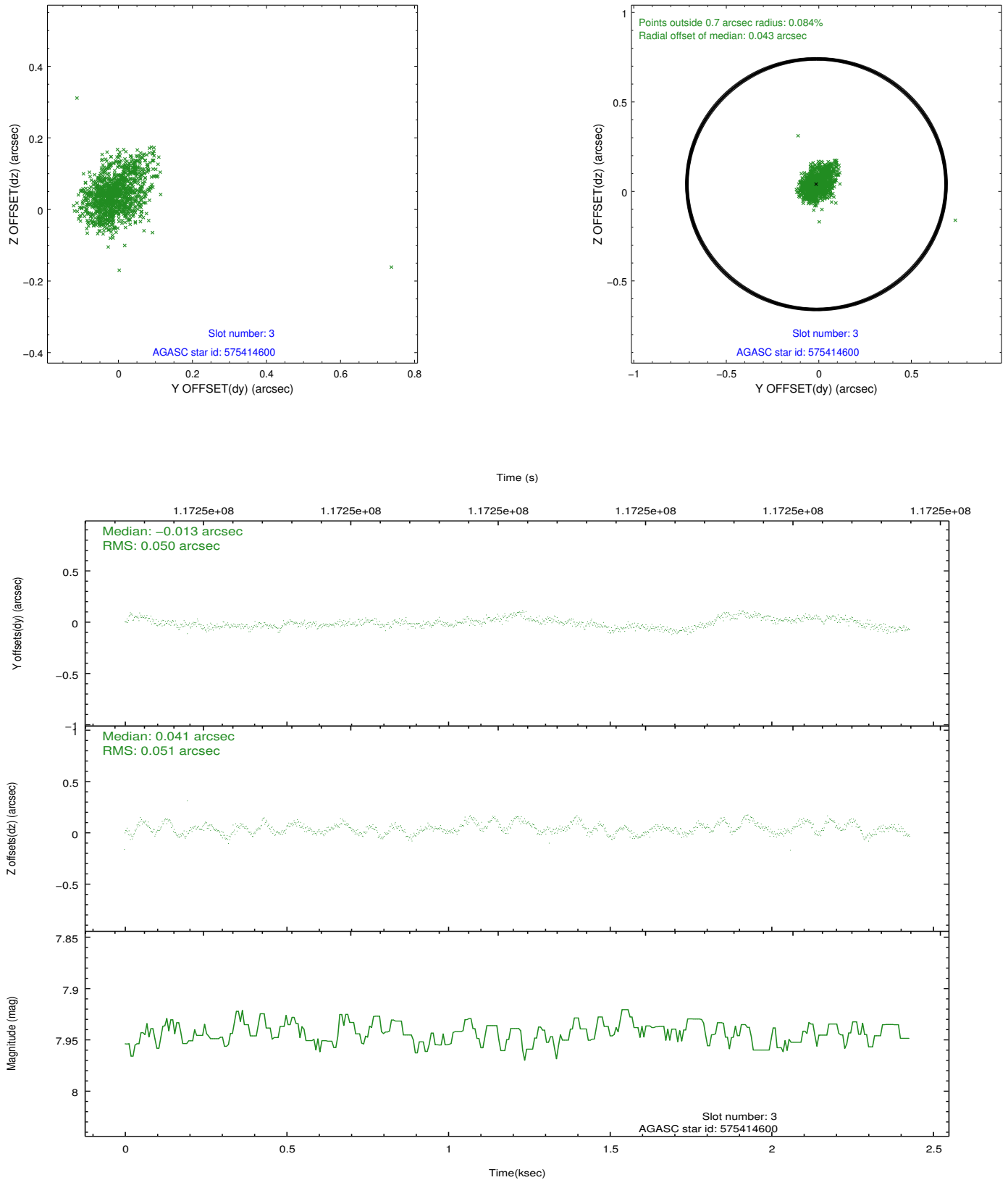


### Slot Statistics

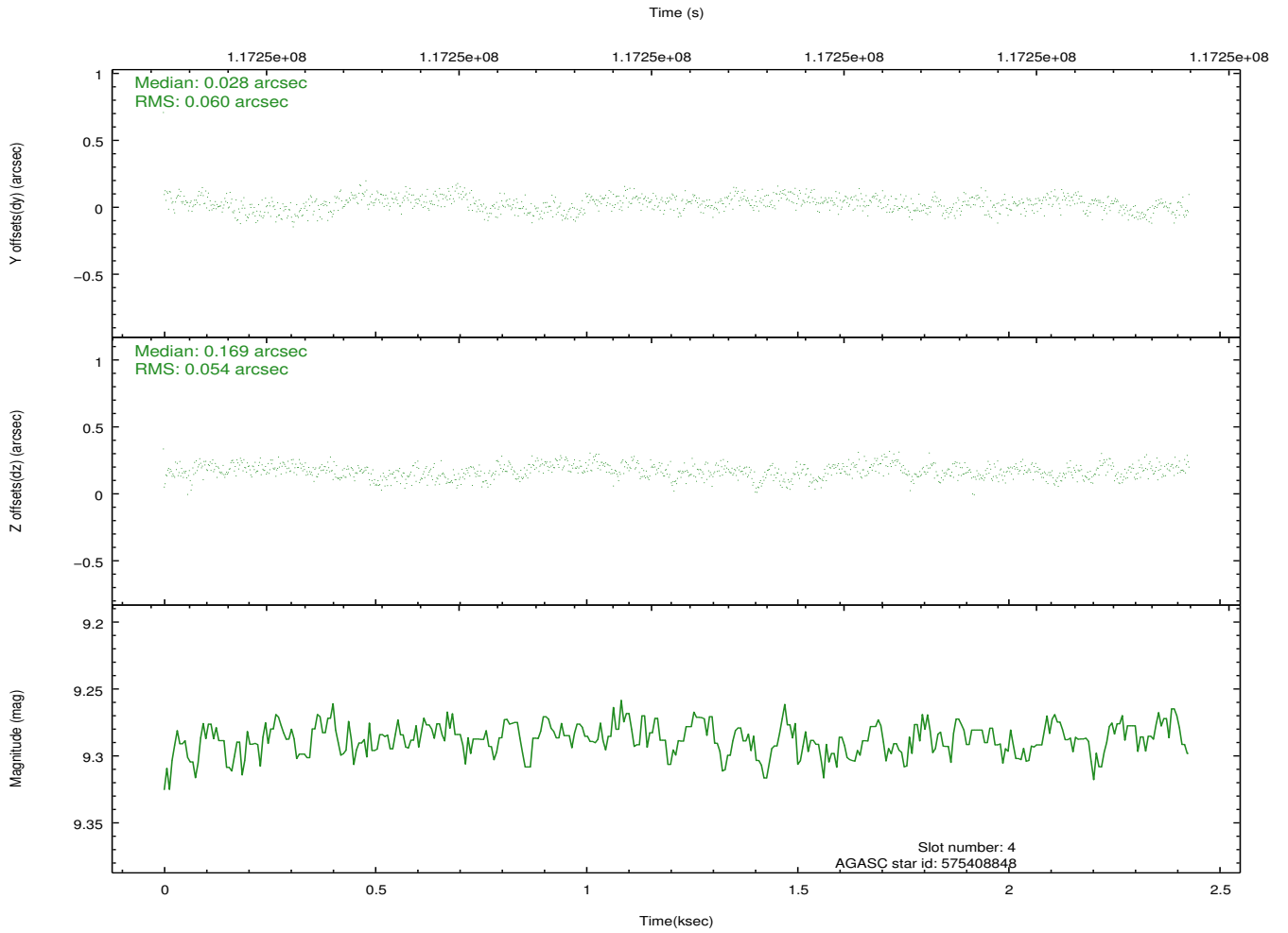
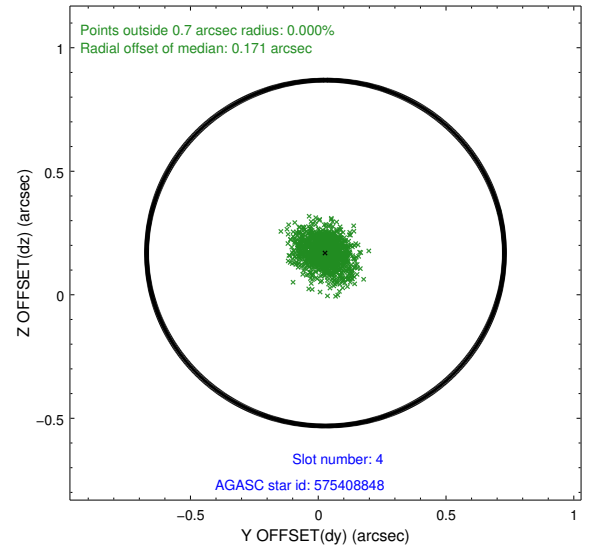
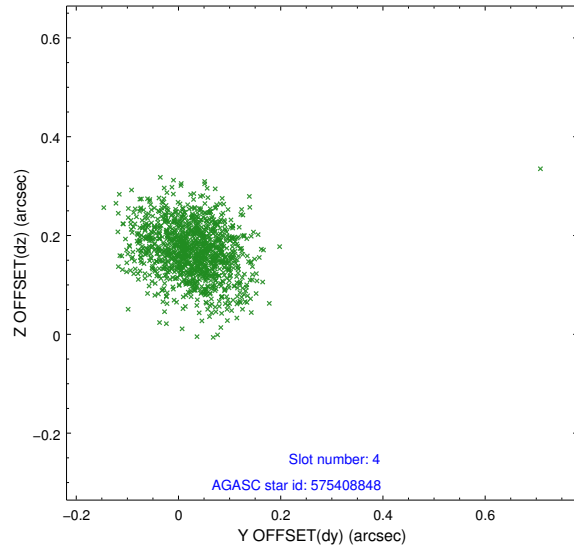
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	593	-0.027	0.006	0.007	0.012	0.000000	0.000000	-754.77	-1727.76
1	FID	ACIS-S-4	7.20	593	-0.048	0.012	0.005	0.010	0.000000	0.000000	2157.26	178.02
2	FID	ACIS-S-5	7.23	593	0.044	-0.008	0.006	0.013	0.000000	0.000000	-1804.13	174.65
3	GUIDE	575414600	7.94	1186	-0.013	0.041	0.074	0.117	153.504522	72.977948	-1242.89	-1038.81
4	GUIDE	575408848	9.29	1186	0.028	0.169	0.084	0.136	156.135532	73.488821	1985.85	-396.20
5	GUIDE	575407416	10.40	1151	0.019	-0.103	0.148	0.234	155.816026	73.719189	1991.63	494.67
6	GUIDE	575410080	6.81	1186	-0.027	0.016	0.067	0.103	154.504461	73.073517	-140.33	-1141.18
7	GUIDE	575411920	10.18	1183	-0.011	-0.130	0.117	0.189	154.341769	73.549144	373.81	498.72

## 2.4 Star Slots

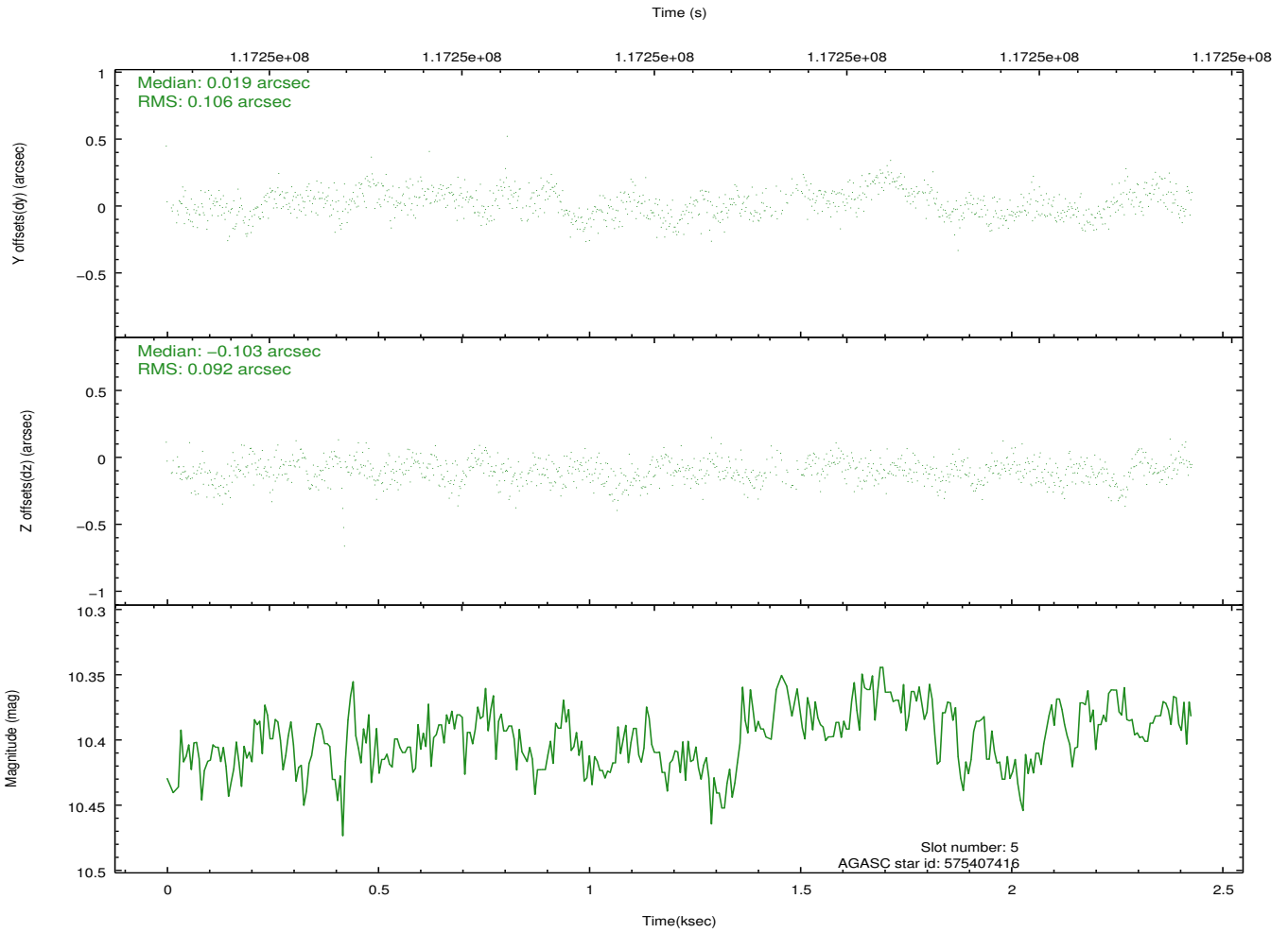
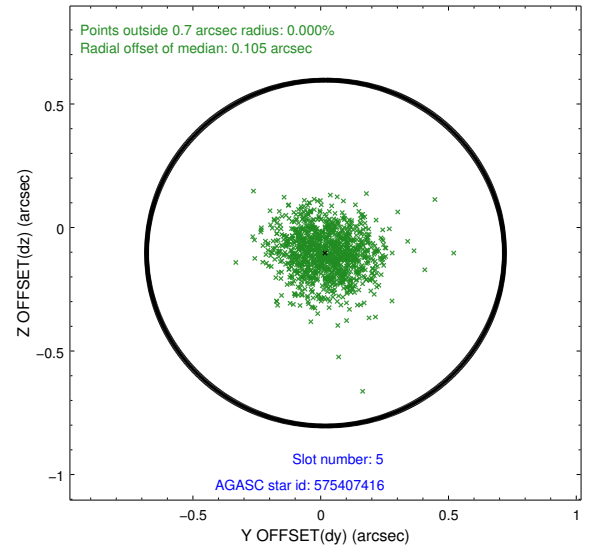
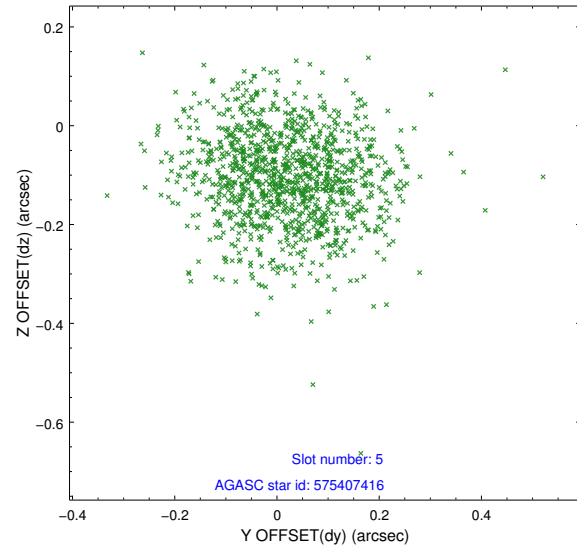
### 2.4.1 Slot 3



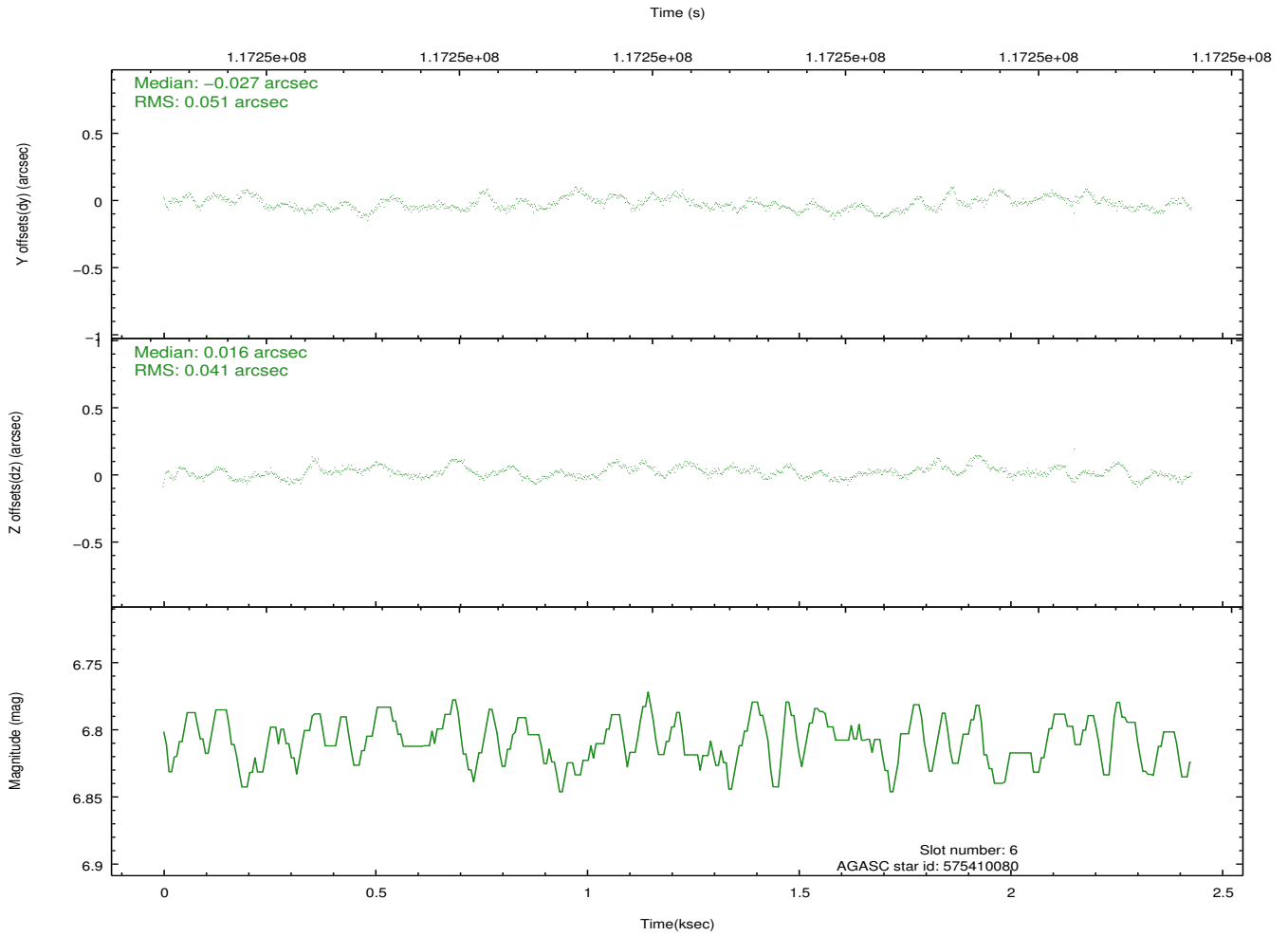
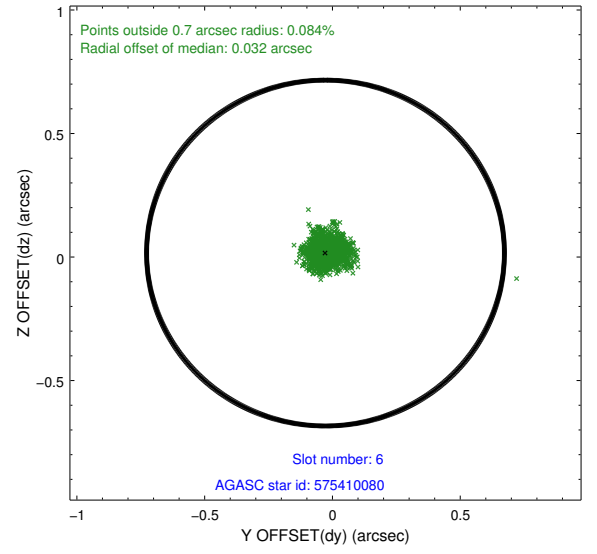
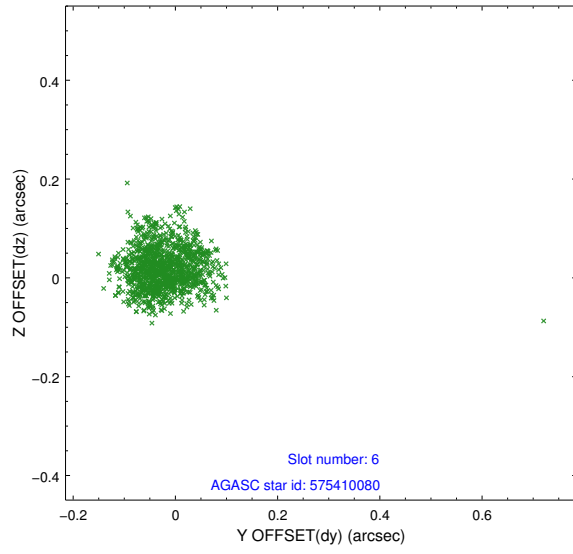
## 2.4.2 Slot 4



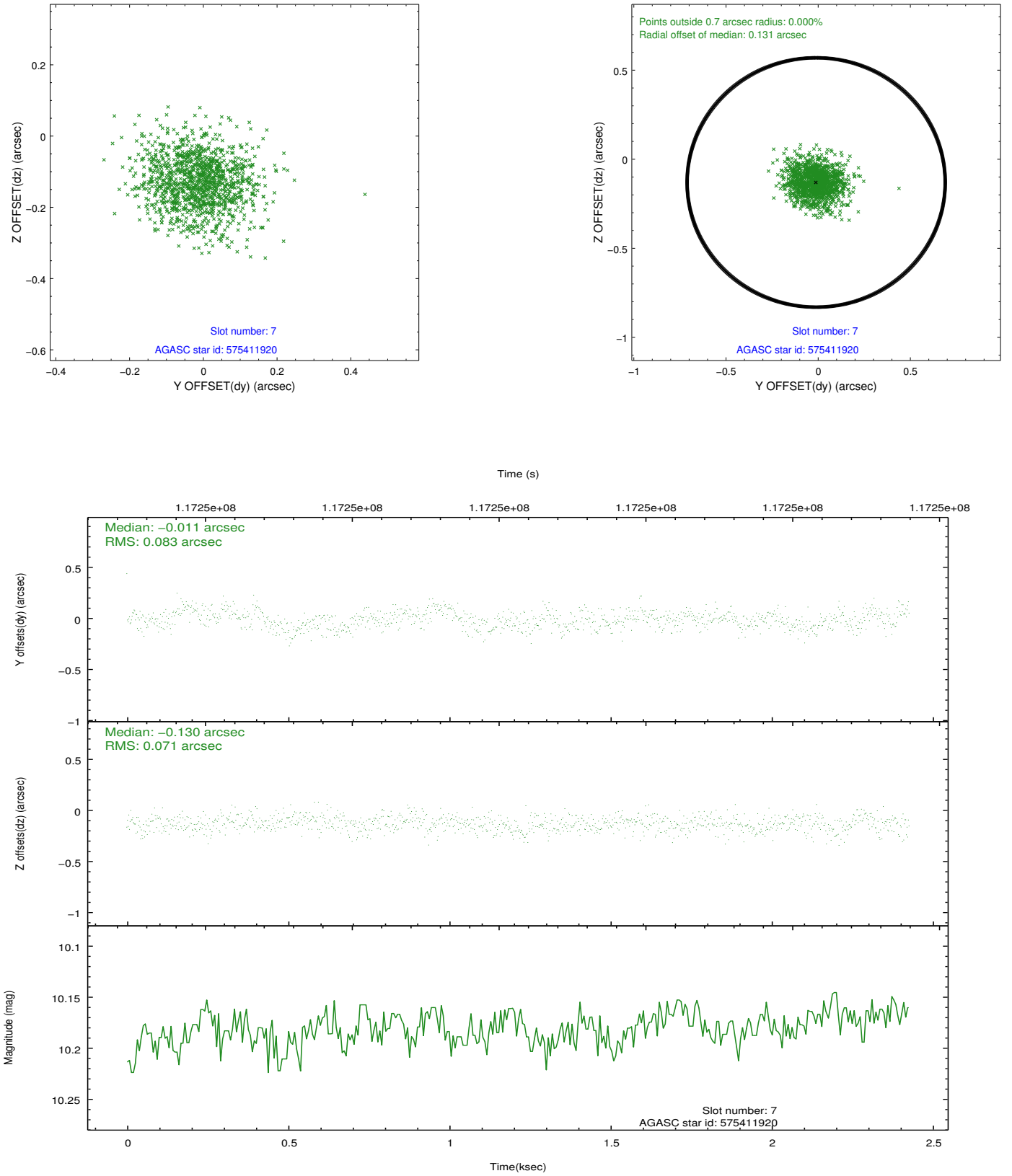
### 2.4.3 Slot 5



## 2.4.4 Slot 6

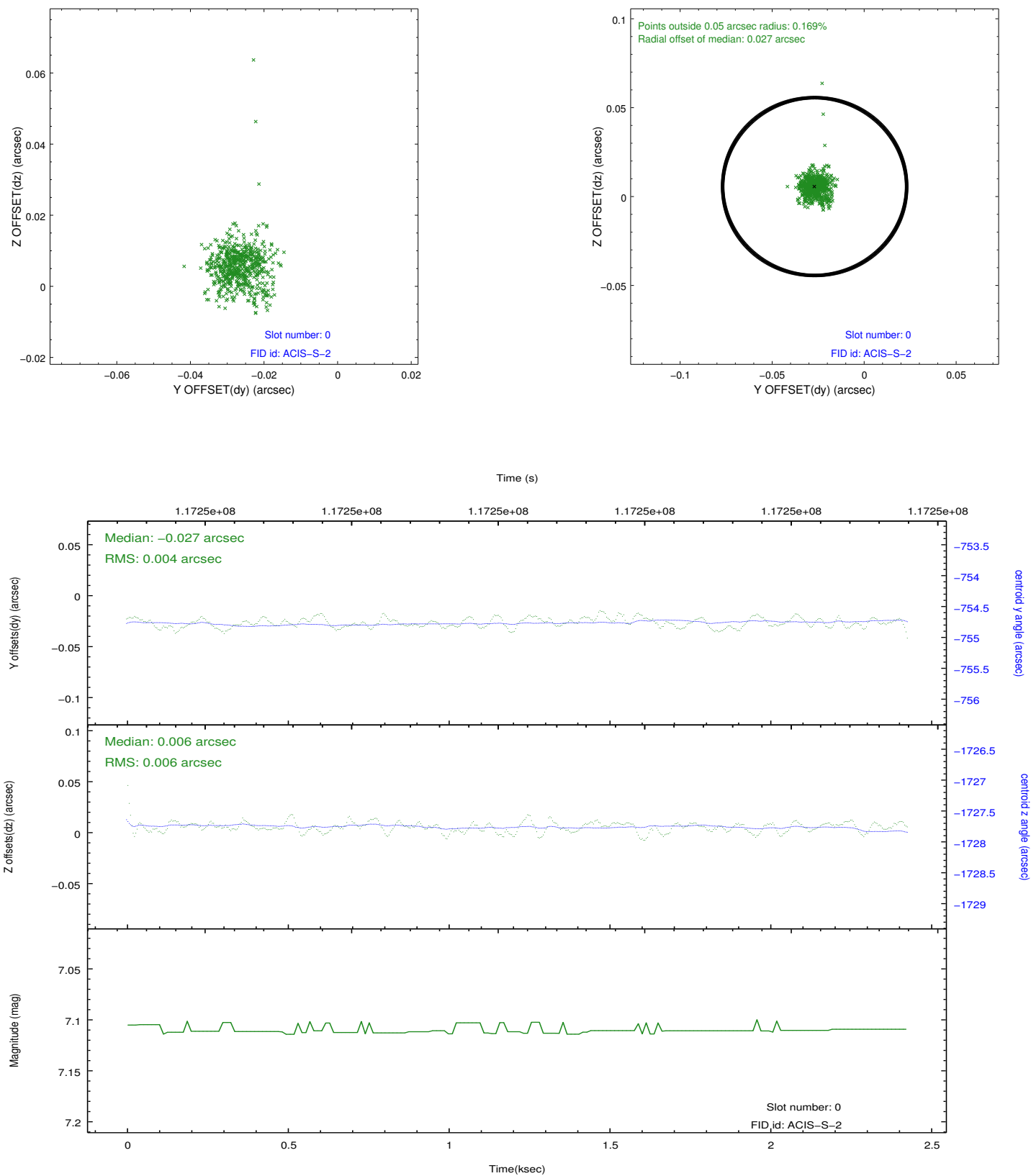


## 2.4.5 Slot 7

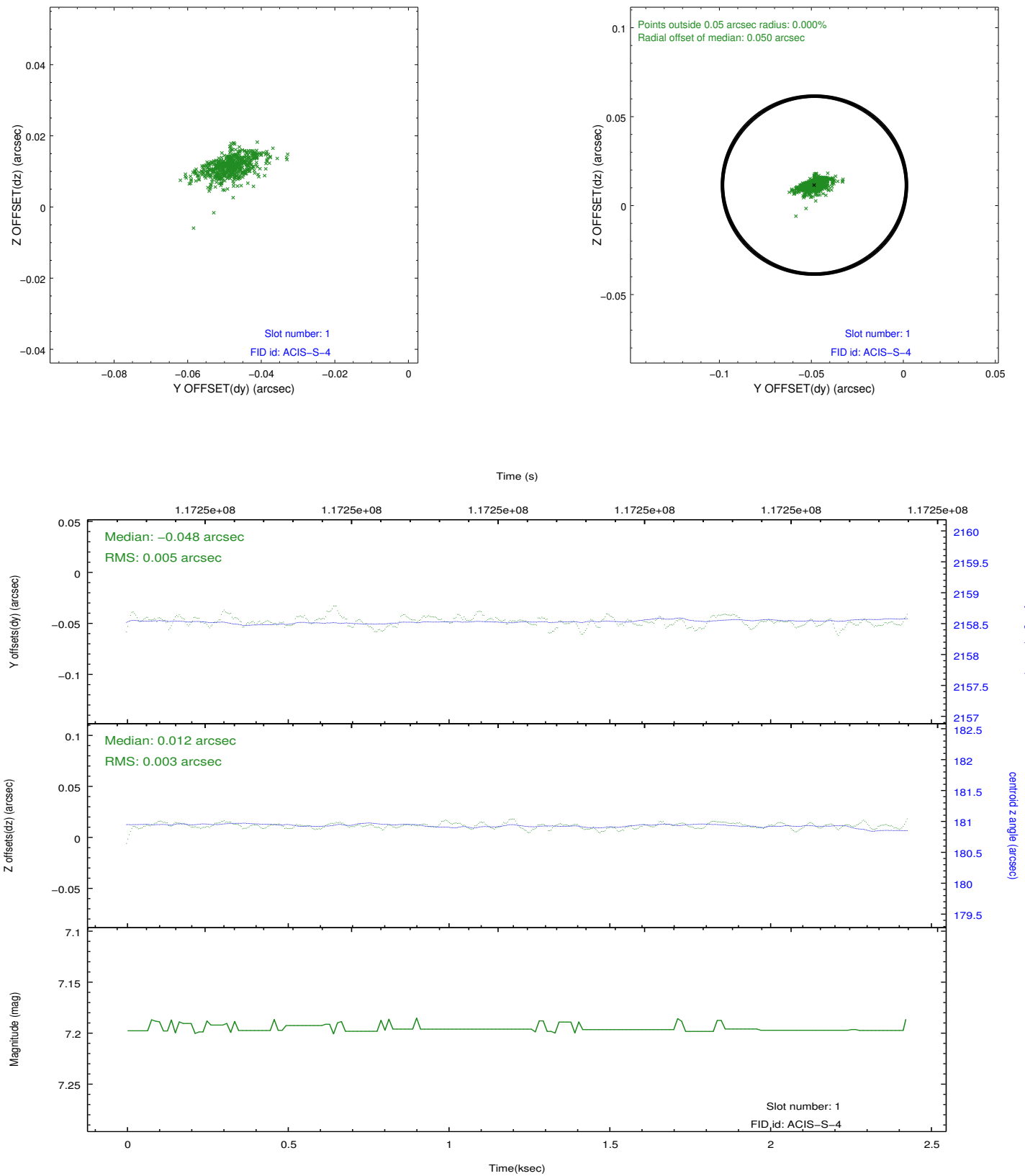


## 2.5 FID Slots

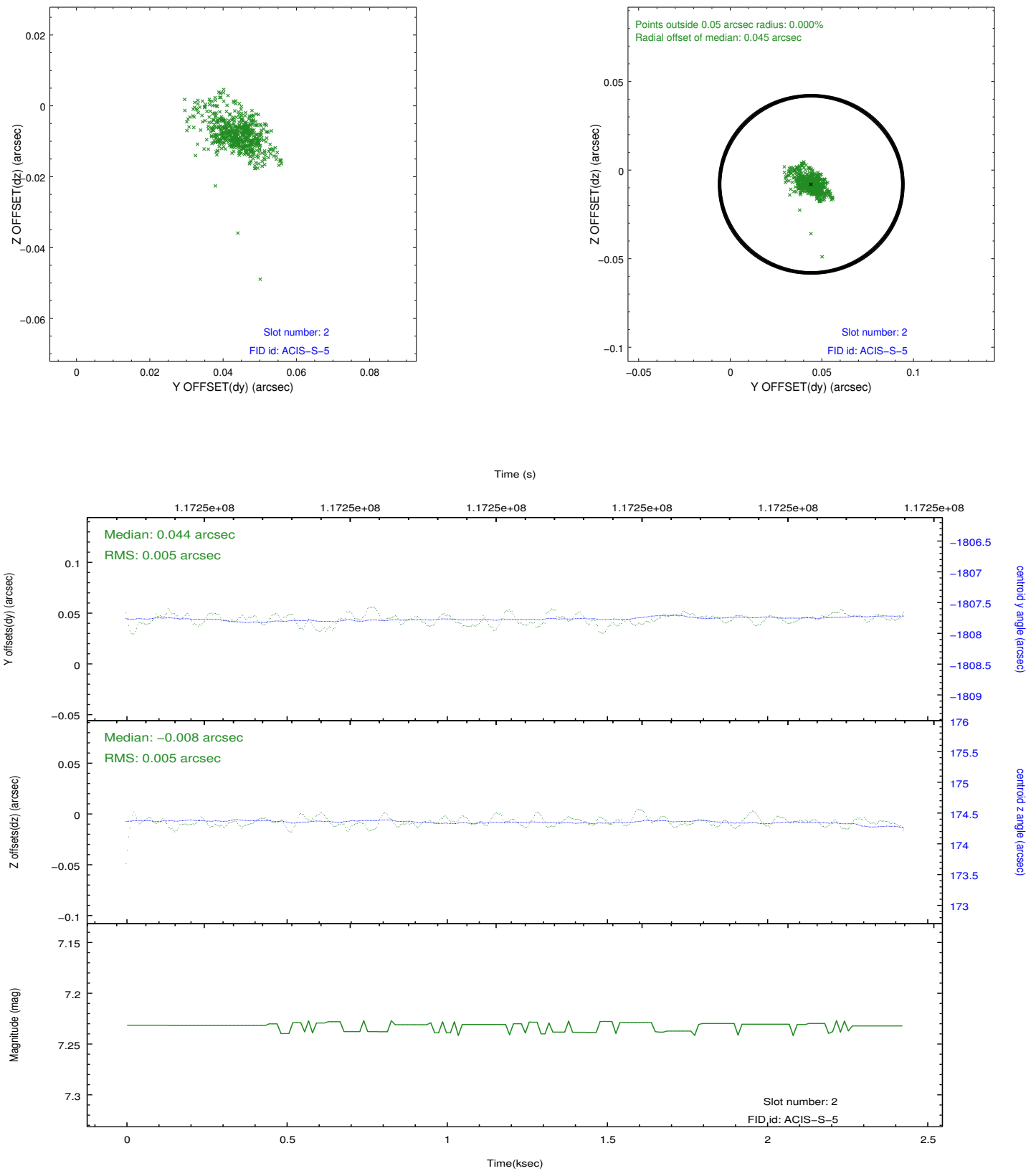
### 2.5.1 Slot 0



## 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)	2012.09.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.428

### **A.2 Comments**