

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 415 - L2 Version 3  
Chandra X-Ray Center

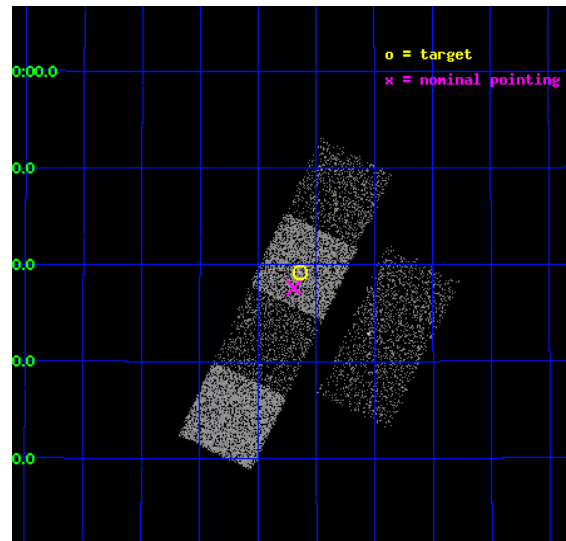
L2 Processing Date : Sep 1 2012

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# 1 Front

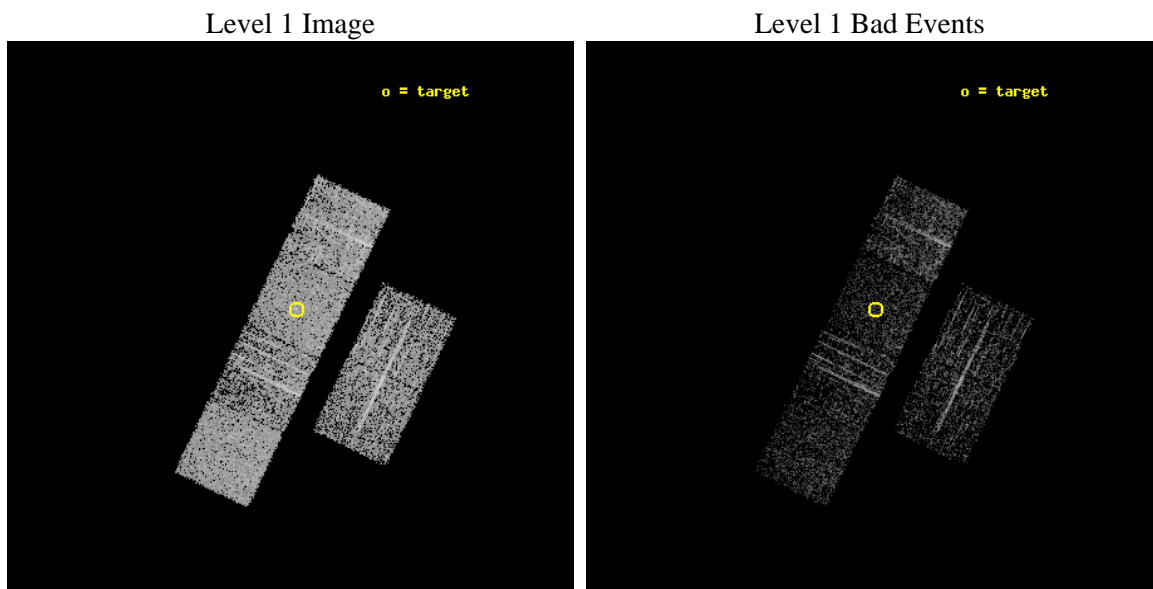
seq_num	700087	Sequence number
obs_id	415	Observation id
title	LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI IN NEARBY GALAXIES	Proposal
observer	Professor Gordon Garmire	Principal investigator
object	NGC 5273	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	205.534583	Observer's specified target RA [deg]
dec_targ	35.654167	Observer's specified target Dec [deg]
ra_nom	205.54825706101	Nominal RA [deg]
dec_nom	35.627179128248	Nominal Dec [deg]
roll_nom	295.79033575441	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1753.6000016183	Sum of GTIs [s]
livetime	1731.3948625066	Livetime [s]
ontime2	1753.6000016183	Sum of GTIs [s]
ontime3	1753.6000016183	Sum of GTIs [s]
ontime5	1753.6000016183	Sum of GTIs [s]
ontime6	1753.6000016183	Sum of GTIs [s]
ontime7	1753.6000016183	Sum of GTIs [s]
ontime8	1750.3590713143	Sum of GTIs [s]
l2events	15536	Number of level 2 events



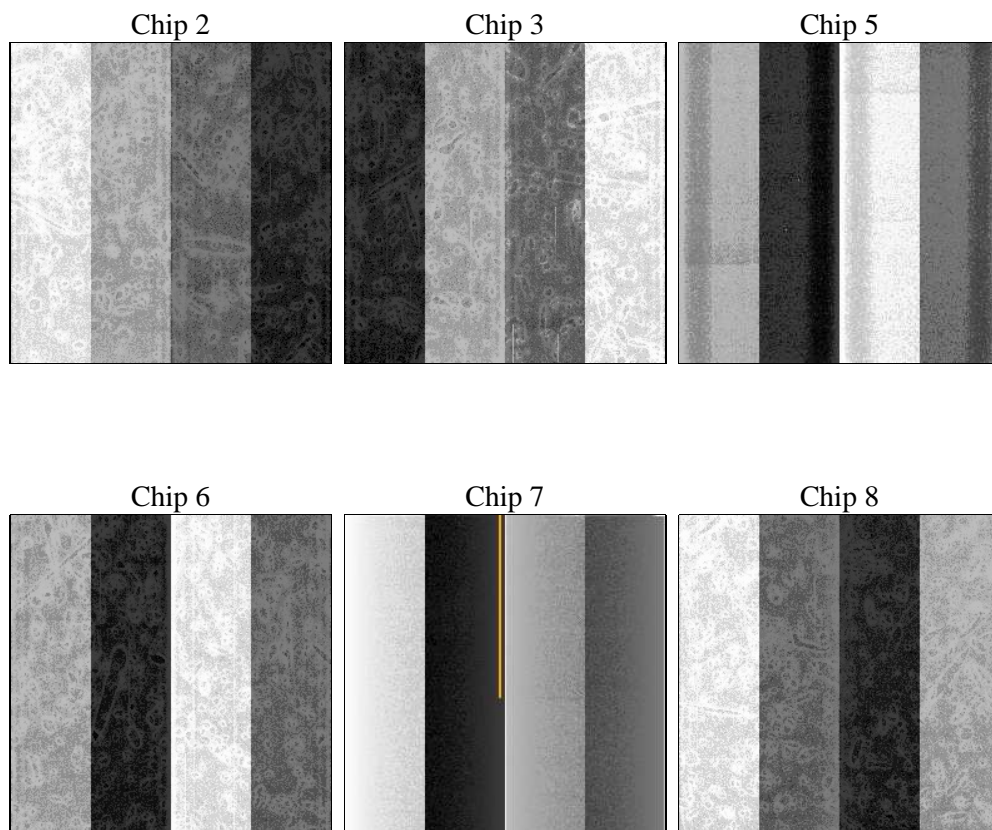
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1753.6000016183	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	1753.6000016183	Sum of GTIs [s]
date	2012-09-01T14:18:50	Date and time of file creation	ontime3	1753.6000016183	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	1753.6000016183	Sum of GTIs [s]
			ontime6	1753.6000016183	Sum of GTIs [s]
			ontime7	1753.6000016183	Sum of GTIs [s]
			ontime8	1750.3590713143	Sum of GTIs [s]
			l1events	74107	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	9950	10767	13854	11166	12970	15400
rejected events	8844	9598	7559	9971	7549	12816
rejected %	88%	89%	54%	89%	58%	83%

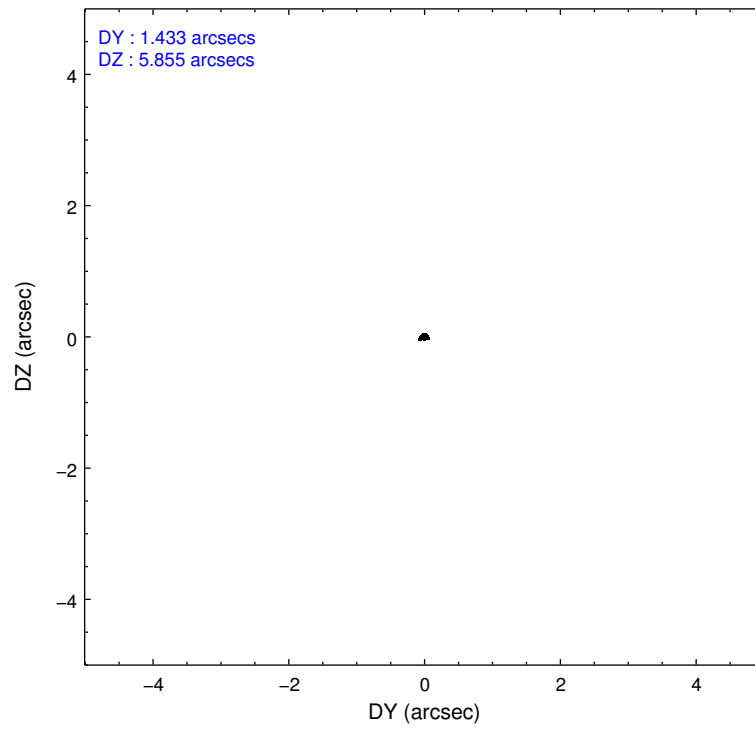
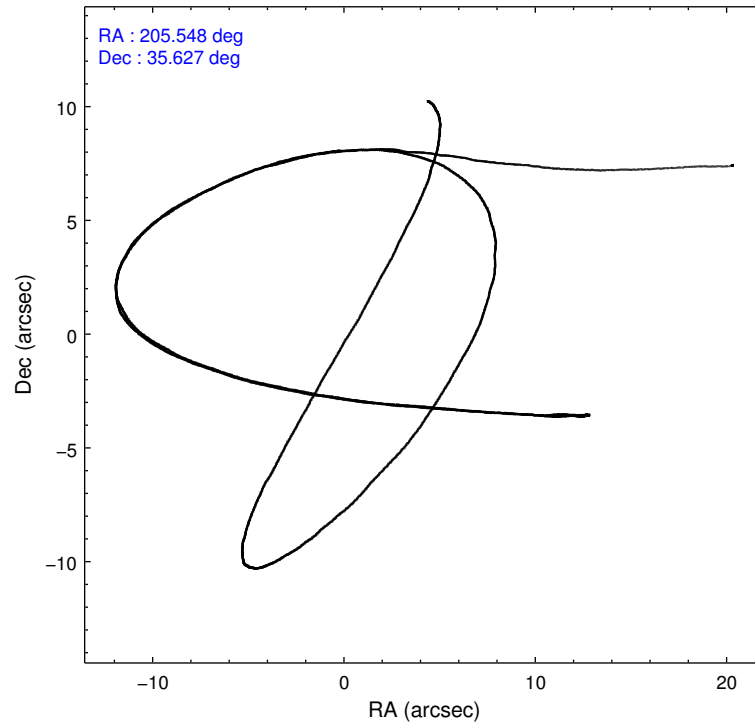
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	479	498	535	496	580	815
	4%	4%	3%	4%	4%	5%
grade 1 events	3	5	14	3	13	14
	0%	0%	0%	0%	0%	0%
grade 2 events	247	227	1825	243	1094	518
	2%	2%	13%	2%	8%	3%
grade 3 events	88	115	307	111	494	311
	0%	1%	2%	0%	3%	2%
grade 4 events	105	124	278	108	532	274
	1%	1%	2%	0%	4%	1%
grade 5 events	320	365	1128	429	1254	488
	3%	3%	8%	3%	9%	3%
grade 6 events	191	210	3367	243	2741	683
	1%	1%	24%	2%	21%	4%
grade 7 events	8517	9223	6400	9533	6262	12297
	85%	85%	46%	85%	48%	79%

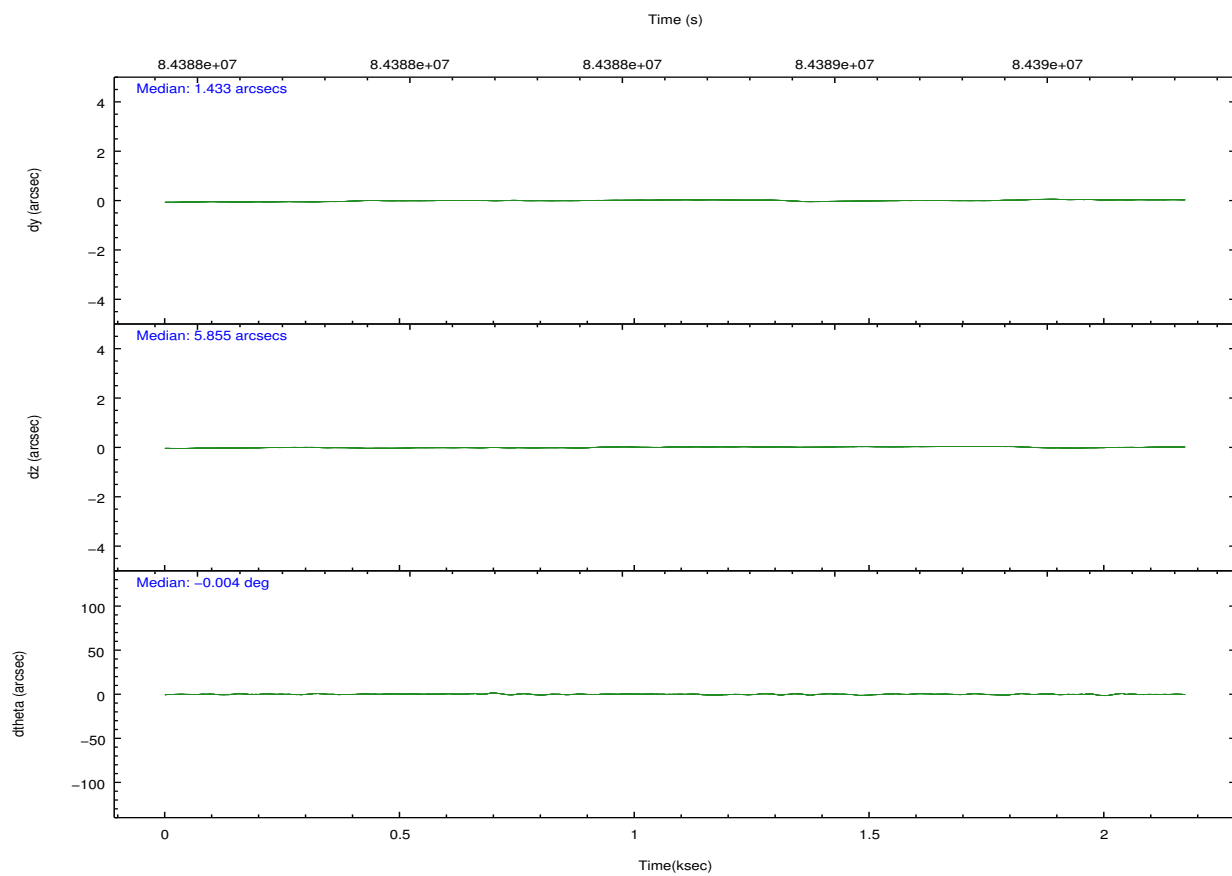
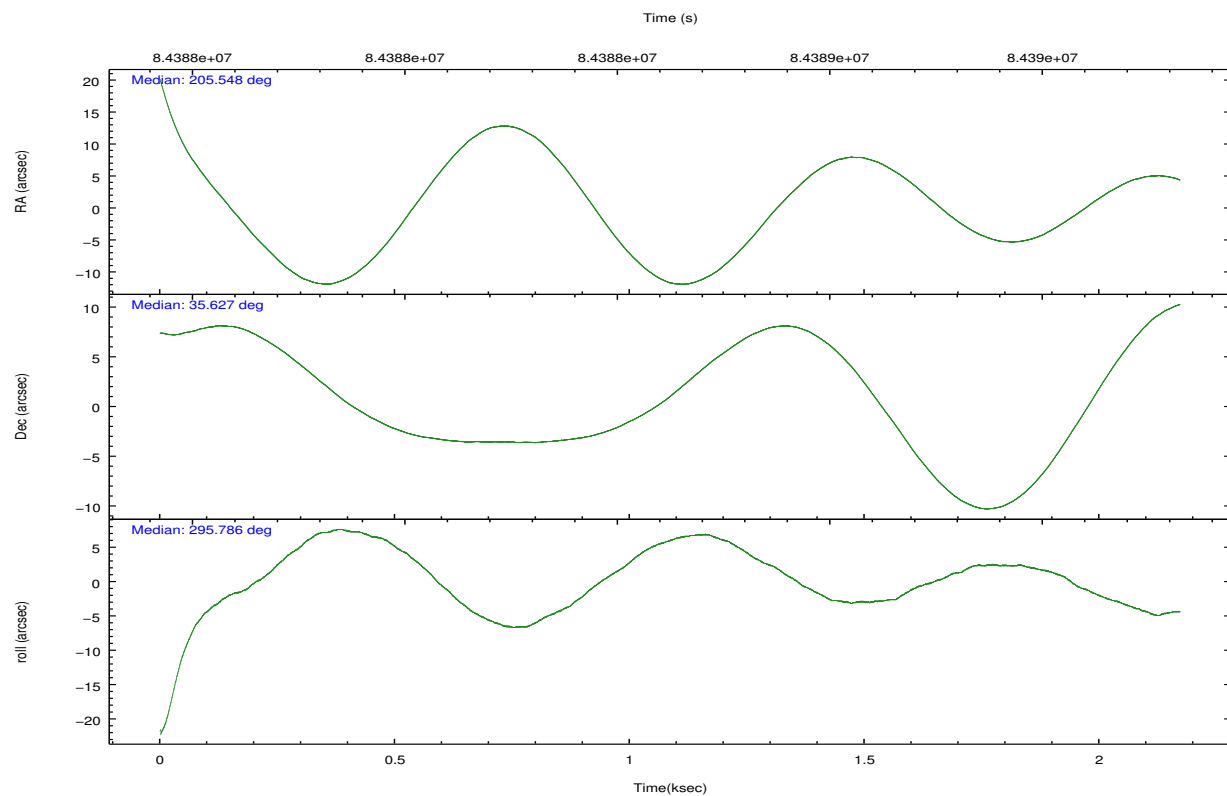
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	205.520220	205.5482570610095
[deg] Pointing Dec	35.642279	35.62717912824842
[deg] Pointing Roll	295.650110	295.7903357544072
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	84387710.184000	84386845.56035601
Observation start date	2000-09-03T17:00:46	2000-09-03T16:47:25
[s] Observation end time (MET)	84389710.184000	84390249.585484
Observation end date	2000-09-03T17:34:06	2000-09-03T17:44:09
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





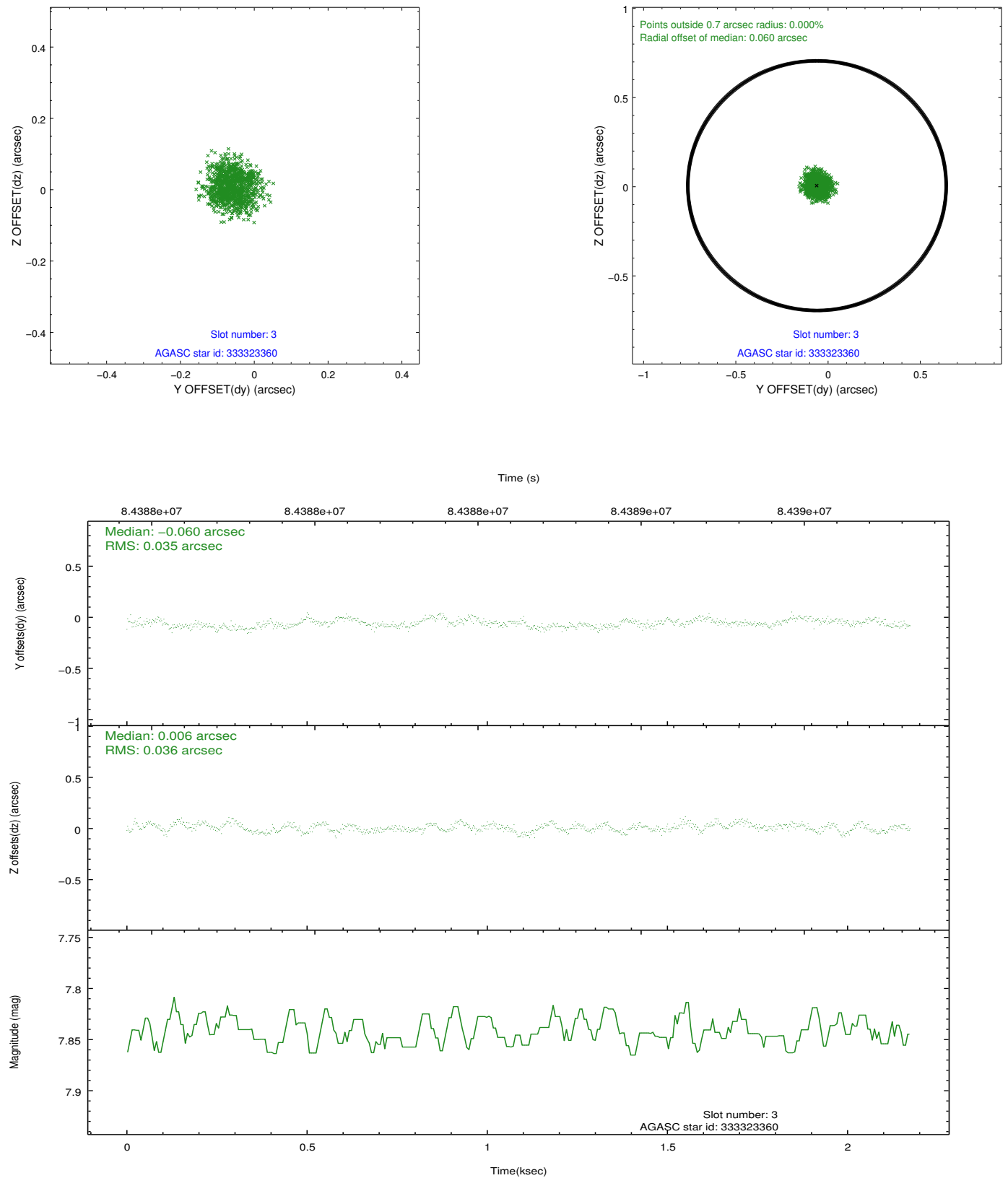
### Slot Statistics

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	529	-0.033	0.015	0.007	0.011	0.000000	0.000000	-754.05	-1726.98
1	FID	ACIS-S-4	7.21	530	-0.031	0.012	0.005	0.011	0.000000	0.000000	2157.86	178.42
2	FID	ACIS-S-5	7.23	530	0.032	-0.018	0.007	0.011	0.000000	0.000000	-1802.97	175.45
3	GUIDE	333323360	7.84	1061	-0.060	0.006	0.055	0.086	205.910143	35.714872	256.29	1142.02
4	GUIDE	333324648	8.31	1061	-0.104	0.056	0.060	0.097	205.047424	35.053146	1306.80	-2170.99
5	GUIDE	333322640	8.37	1061	0.073	-0.033	0.051	0.081	205.896539	35.346034	1439.77	533.91
6	GUIDE	333322112	8.86	1059	-0.023	-0.045	0.066	0.107	205.567384	36.105999	-1443.59	847.14
7	GUIDE	333323792	9.67	1060	0.111	0.017	0.085	0.135	205.542672	35.288456	1176.28	-490.51

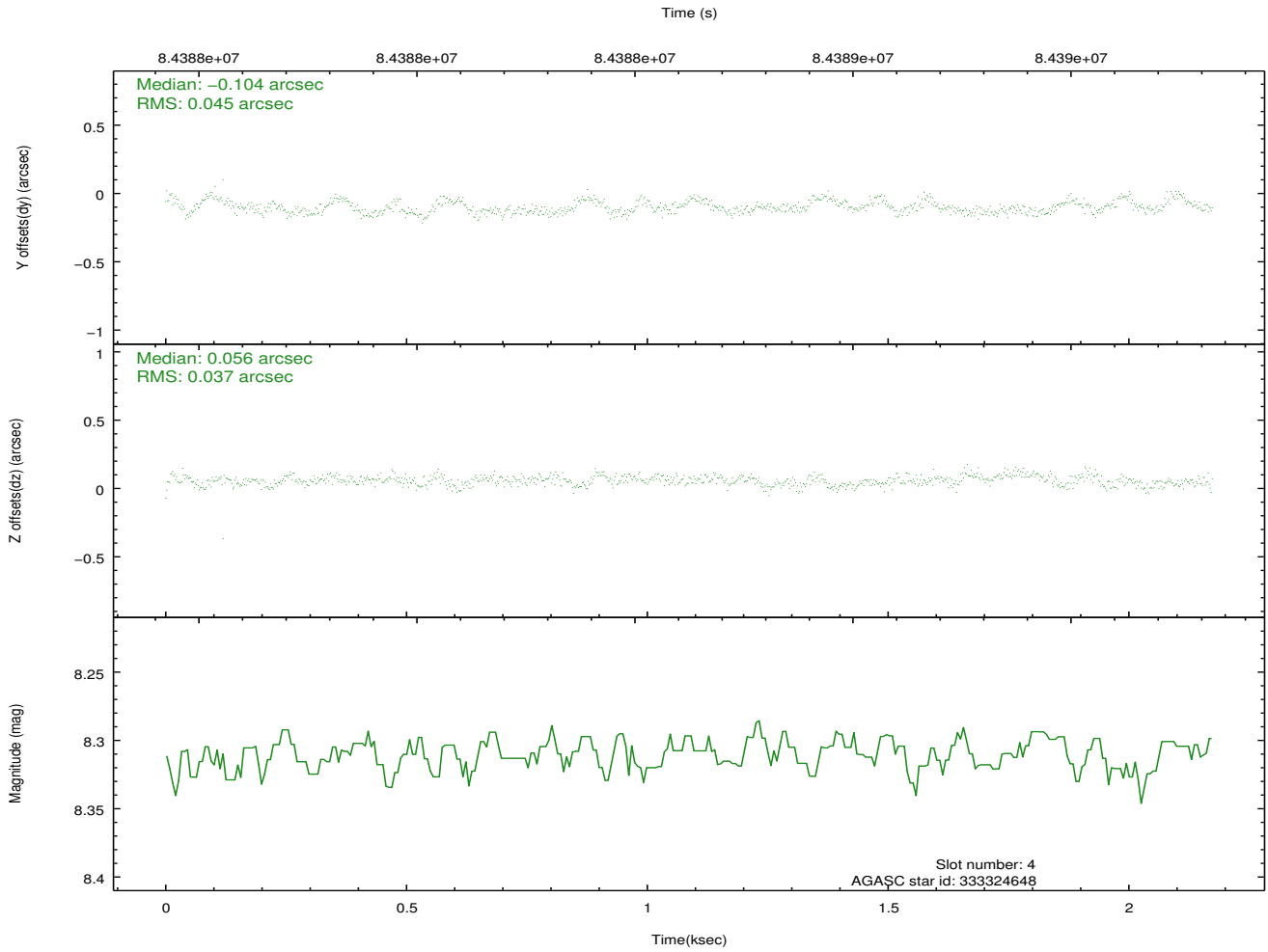
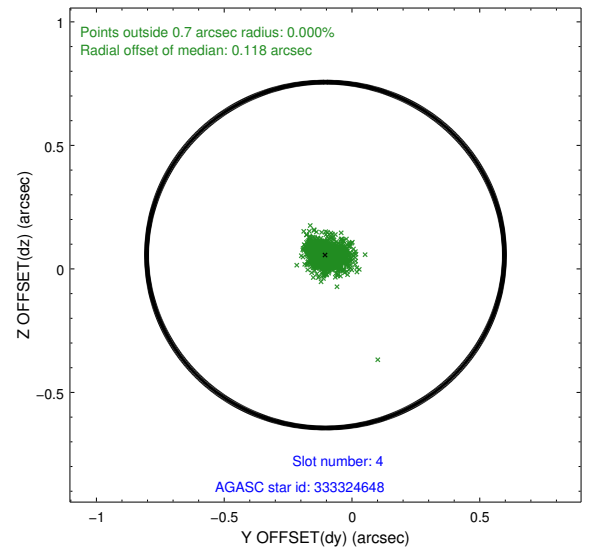
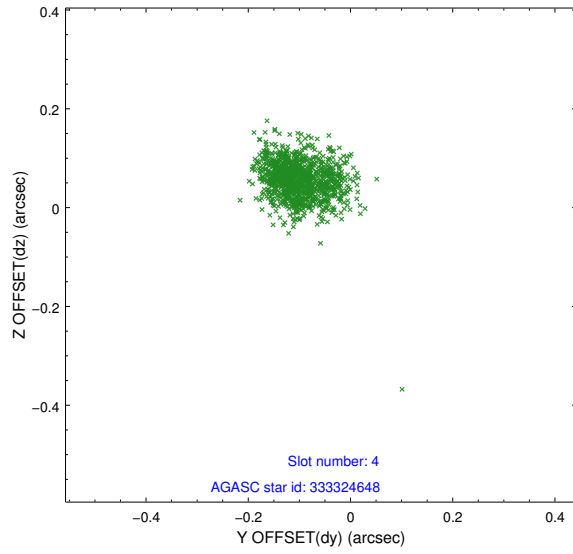


## 2.4 Star Slots

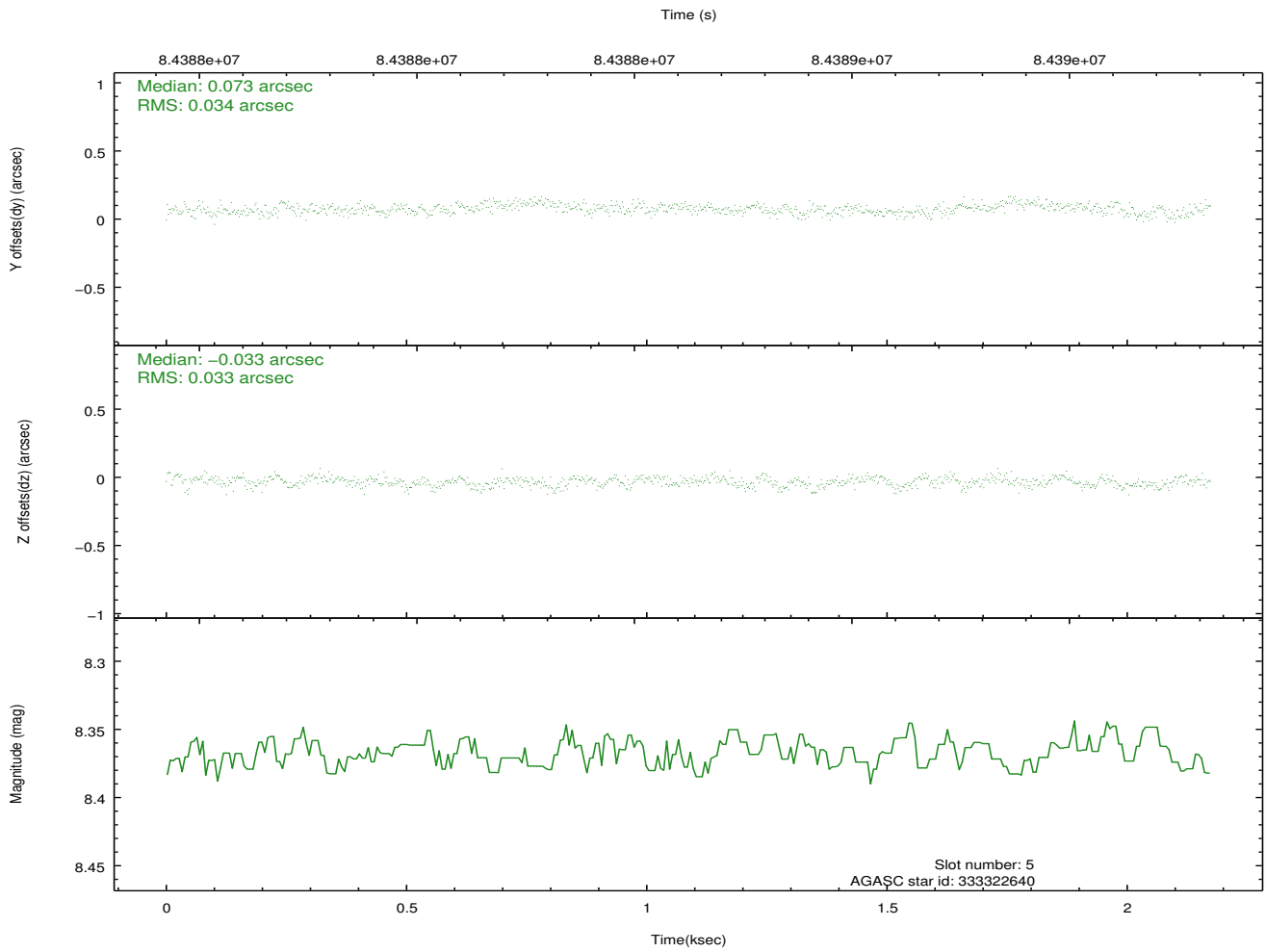
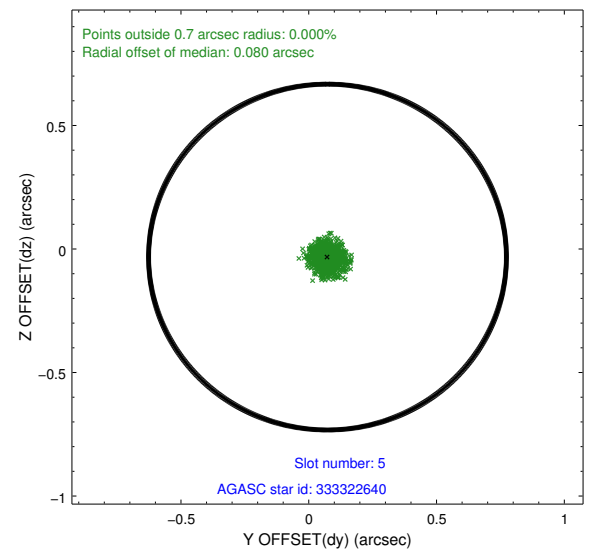
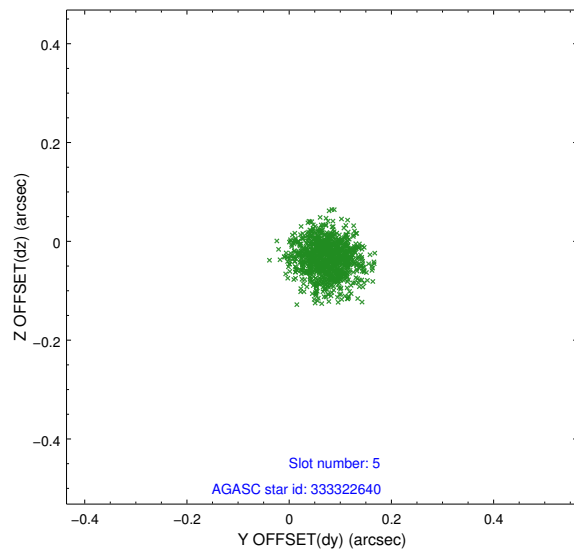
### 2.4.1 Slot 3



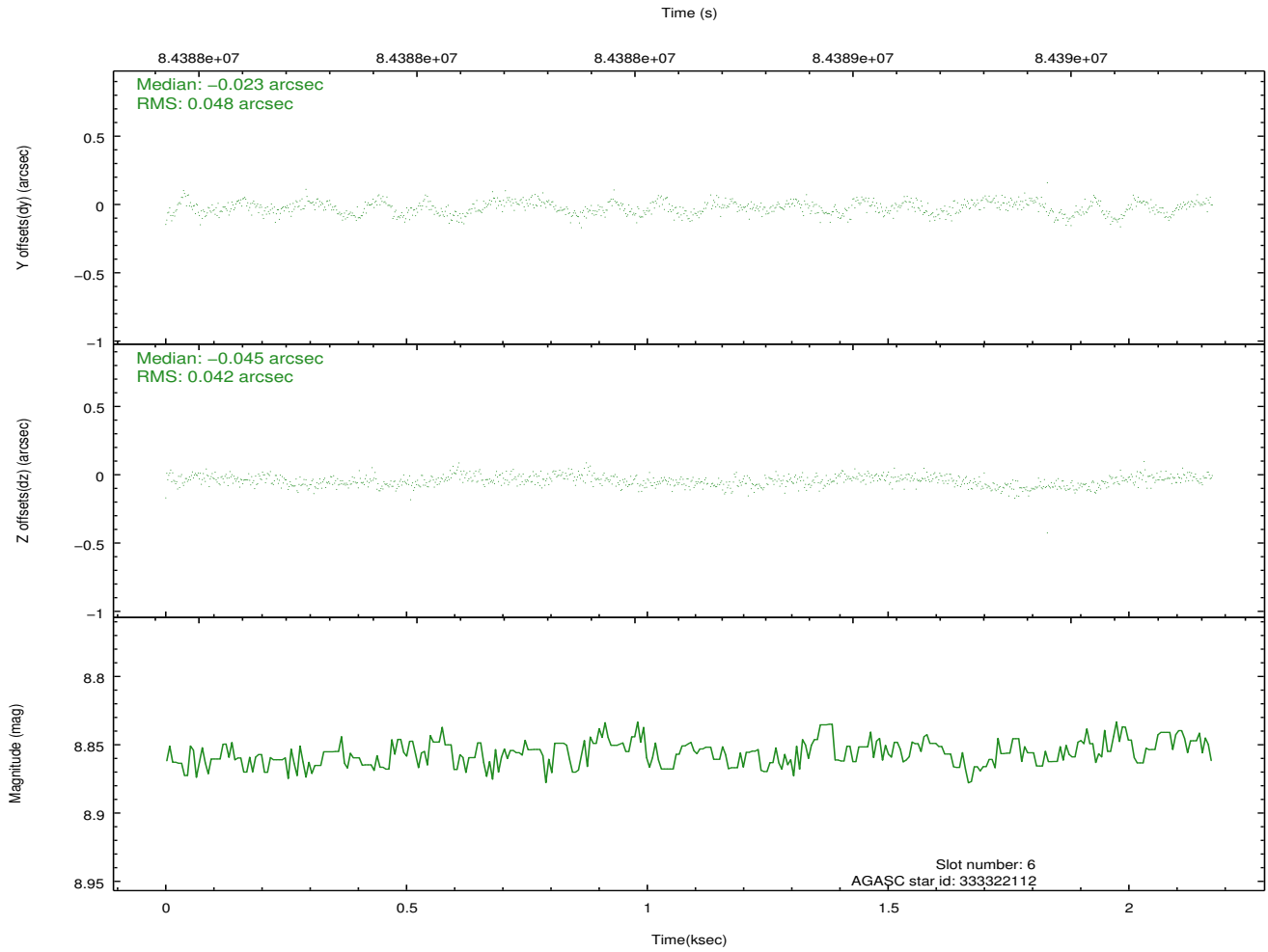
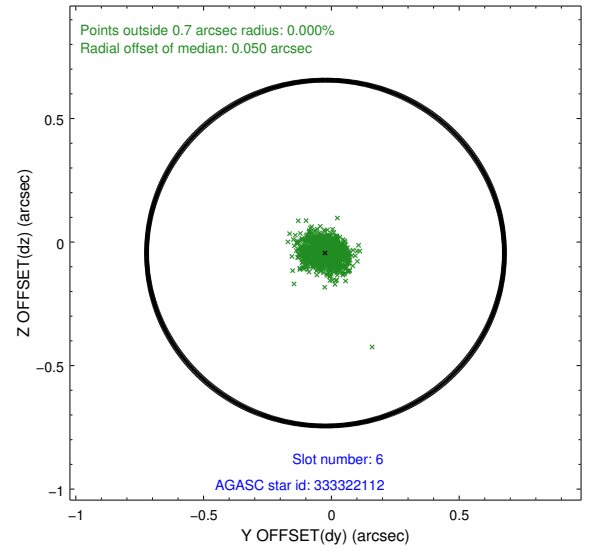
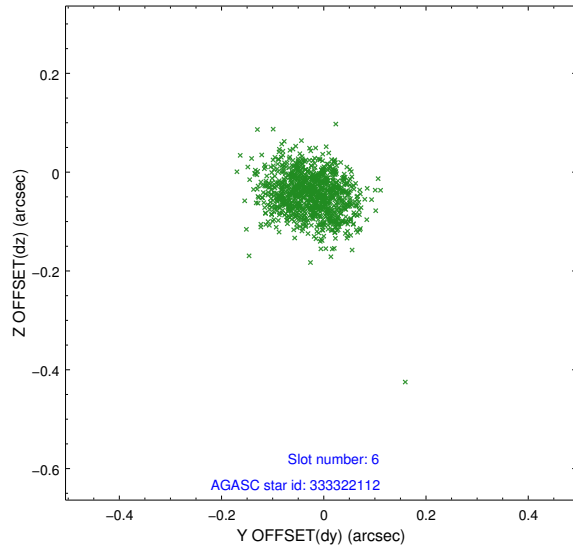
## 2.4.2 Slot 4



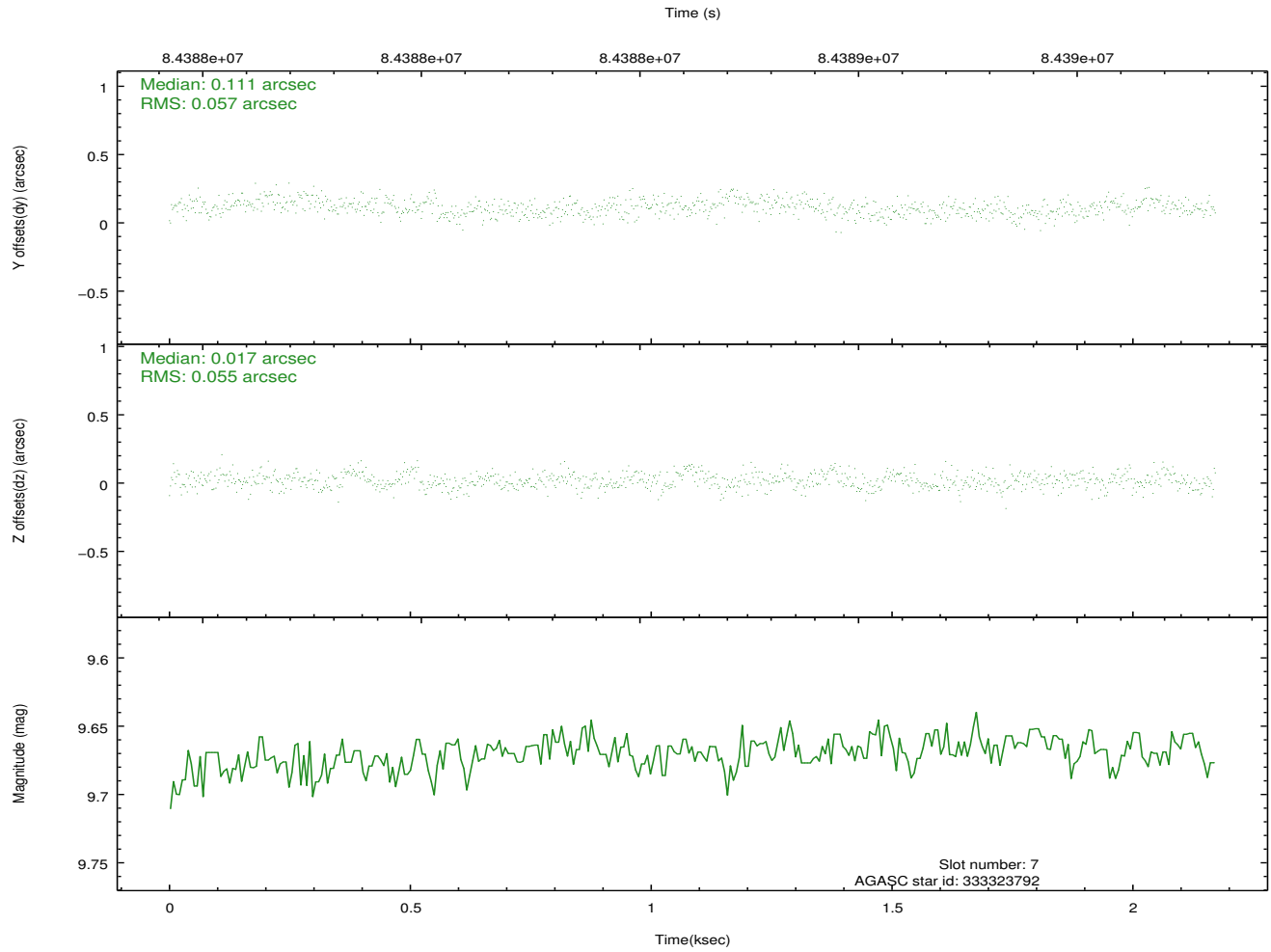
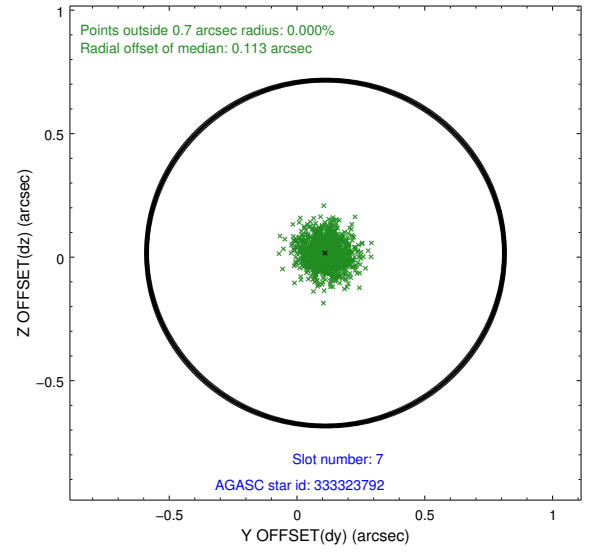
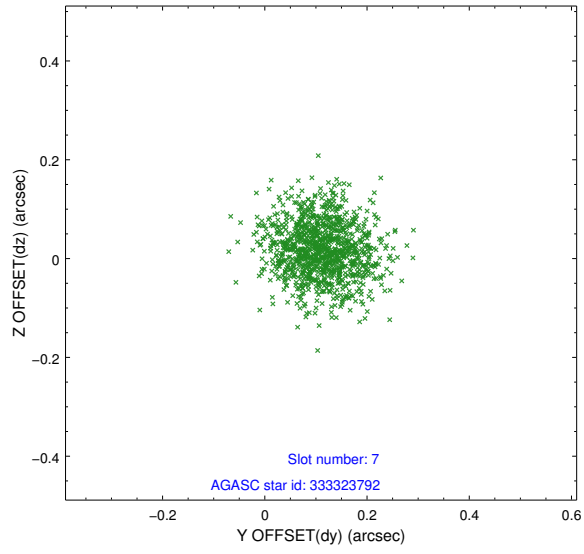
### 2.4.3 Slot 5



## 2.4.4 Slot 6

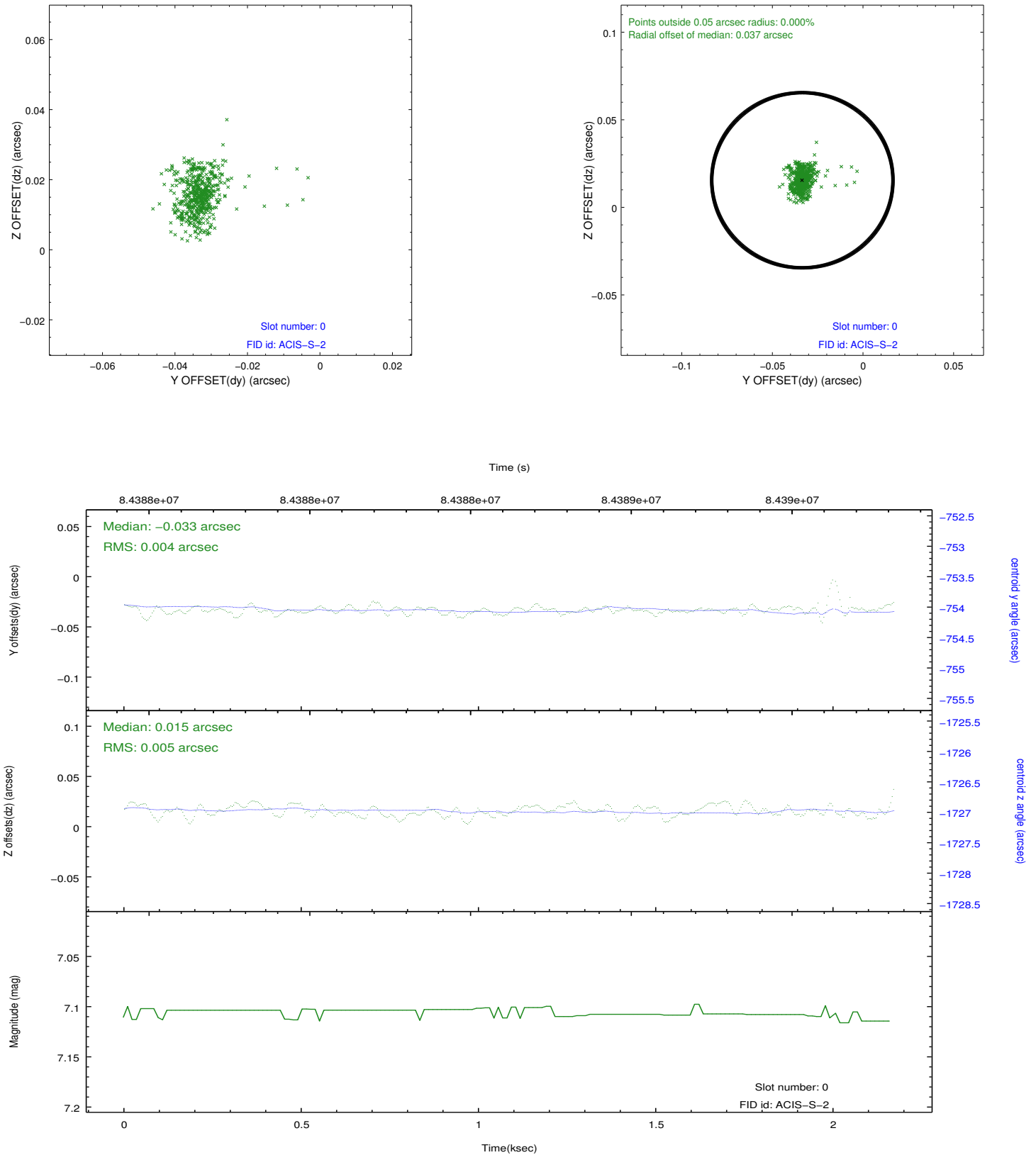


## 2.4.5 Slot 7

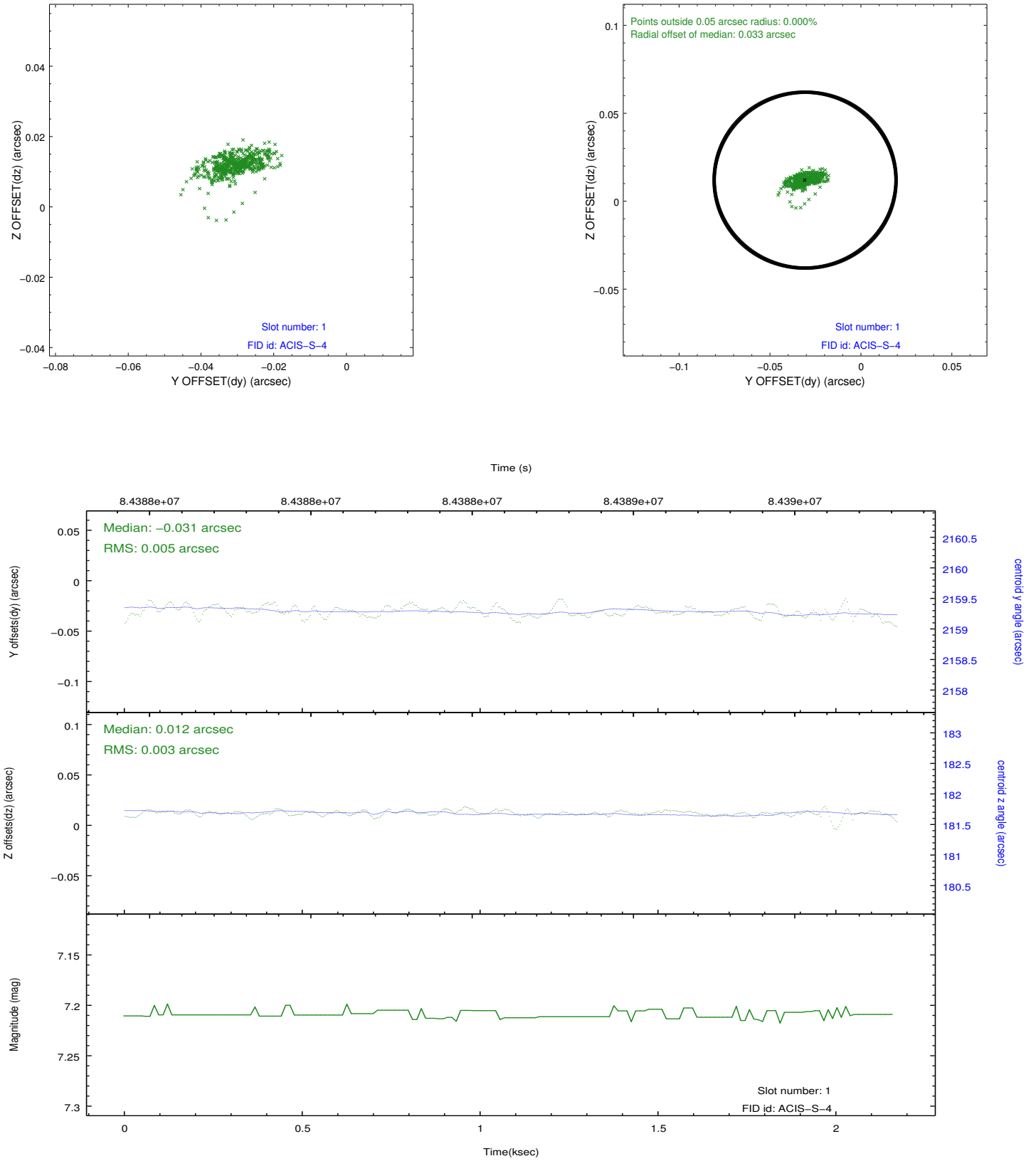


## 2.5 FID Slots

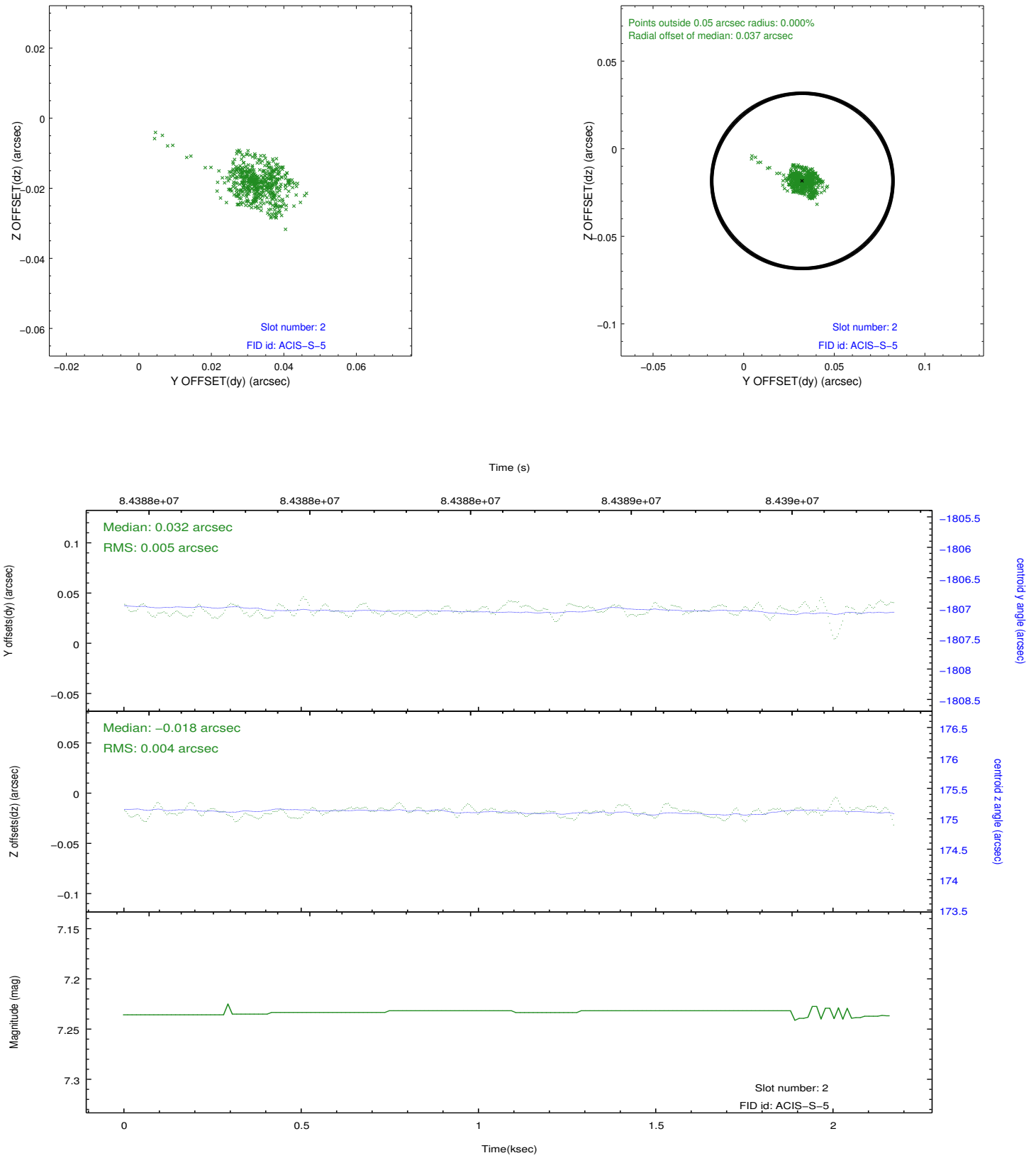
### 2.5.1 Slot 0



## 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)	2012.09.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.756

### A.2 Comments