

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 384 - L2 Version 3  
Chandra X-Ray Center

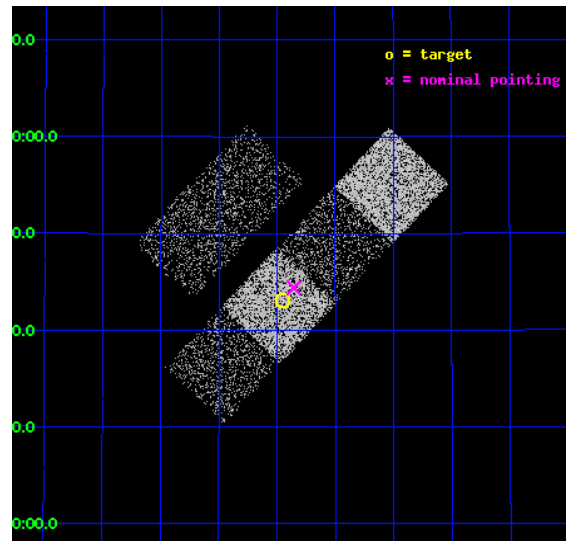
L2 Processing Date : Sep 1 2012

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# 1 Front

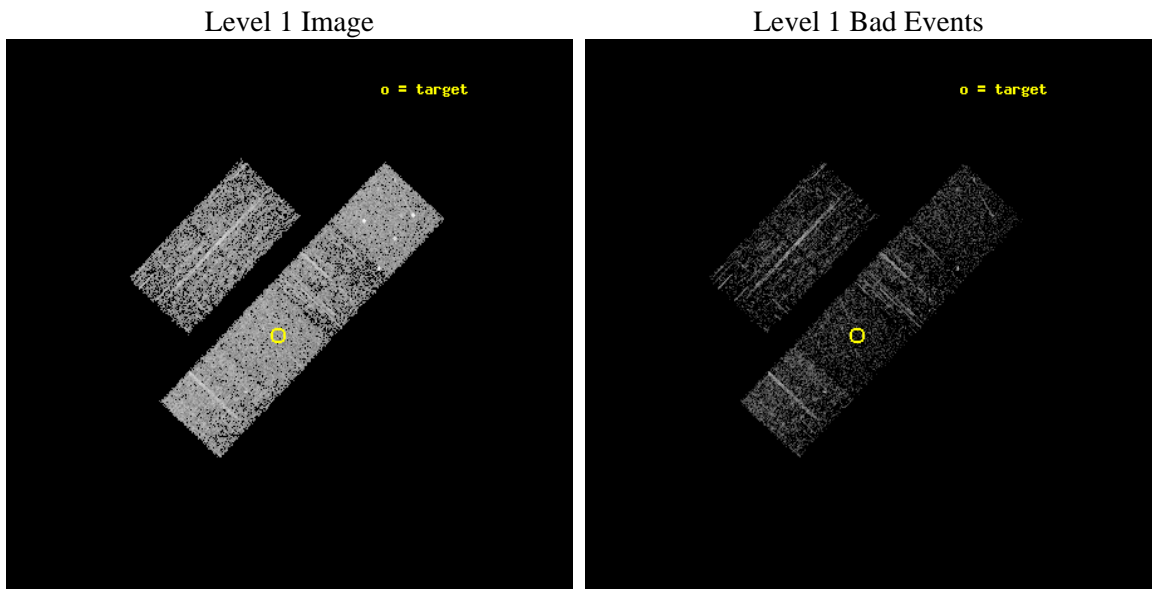
seq_num	700056	Sequence number
obs_id	384	Observation id
title	LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI IN NEARBY GALAXIES	Proposal
observer	Professor Gordon Garmire	Principal investigator
object	NGC 404	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	17.362083	Observer's specified target RA [deg]
dec_targ	35.7175	Observer's specified target Dec [deg]
ra_nom	17.339027406061	Nominal RA [deg]
dec_nom	35.739953016914	Nominal Dec [deg]
roll_nom	133.49540406052	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	1753.6000016183	Sum of GTIs [s]
l2events	15726	Number of level 2 events



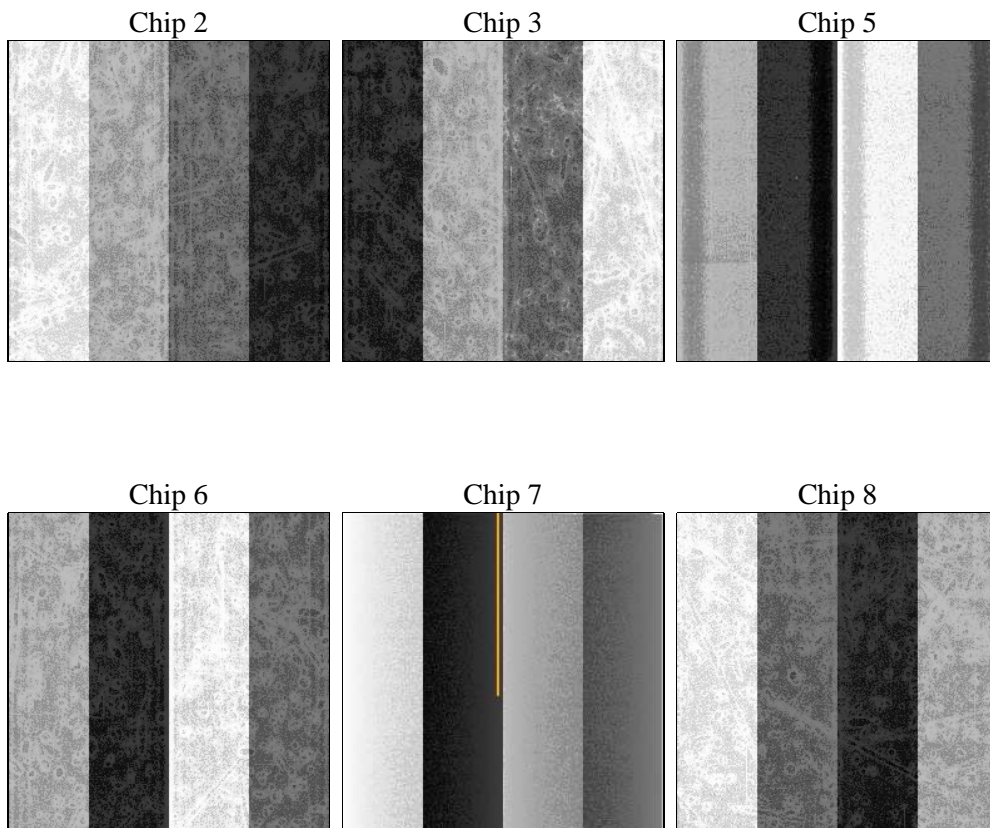
## 2 OBI

### 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	2012-09-01T03:31:58	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	1753.6000016183	Sum of GTIs [s]
			l1events	76014	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	10515	10279	15298	11197	13186	15539
rejected events	9400	9164	7593	9978	7520	13235
rejected %	89%	89%	49%	89%	57%	85%

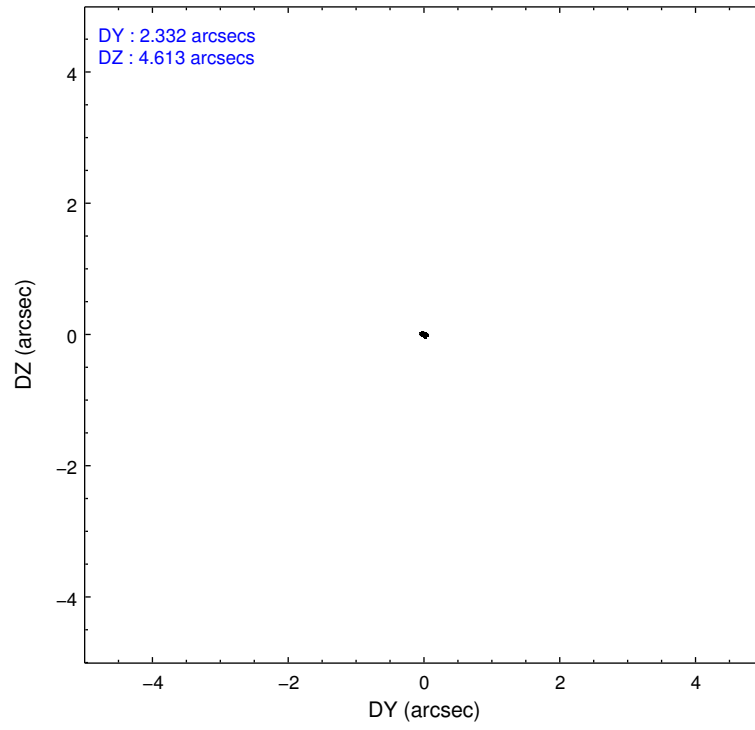
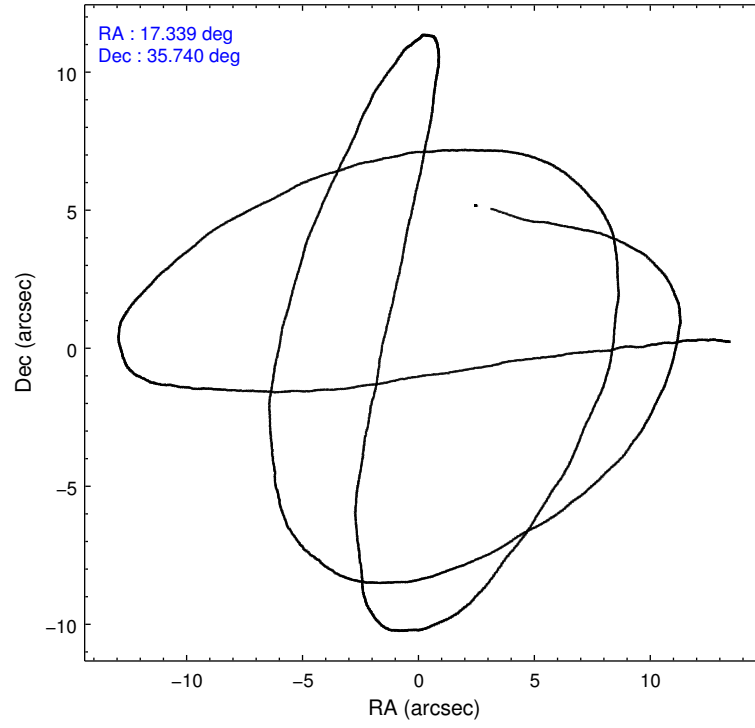
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	442	463	1459	513	558	731
	4%	4%	9%	4%	4%	4%
grade 1 events	3	5	86	7	13	12
	0%	0%	0%	0%	0%	0%
grade 2 events	250	233	2154	240	1117	504
	2%	2%	14%	2%	8%	3%
grade 3 events	105	123	304	119	507	253
	0%	1%	1%	1%	3%	1%
grade 4 events	122	114	312	133	550	215
	1%	1%	2%	1%	4%	1%
grade 5 events	342	337	1119	419	1243	507
	3%	3%	7%	3%	9%	3%
grade 6 events	201	187	3502	217	2957	608
	1%	1%	22%	1%	22%	3%
grade 7 events	9050	8817	6362	9549	6241	12709
	86%	85%	41%	85%	47%	81%

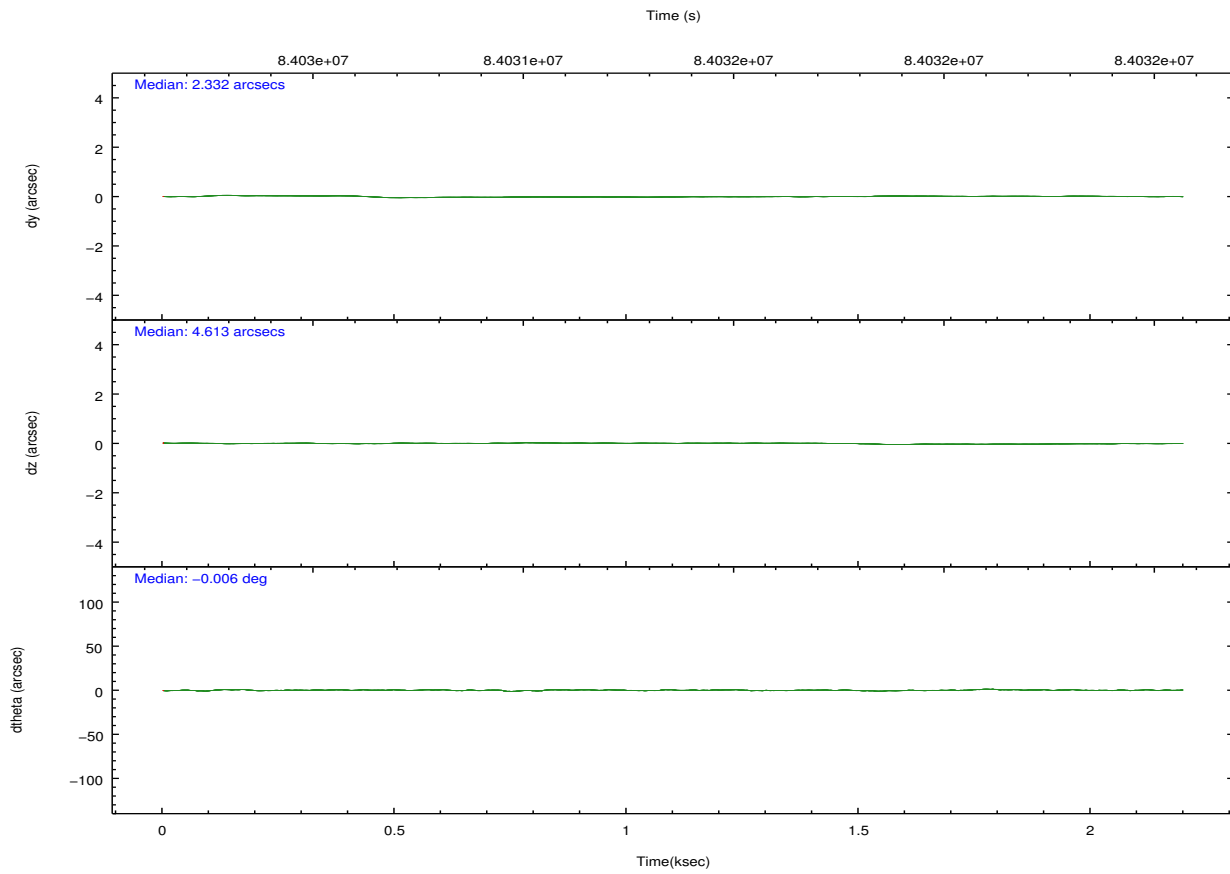
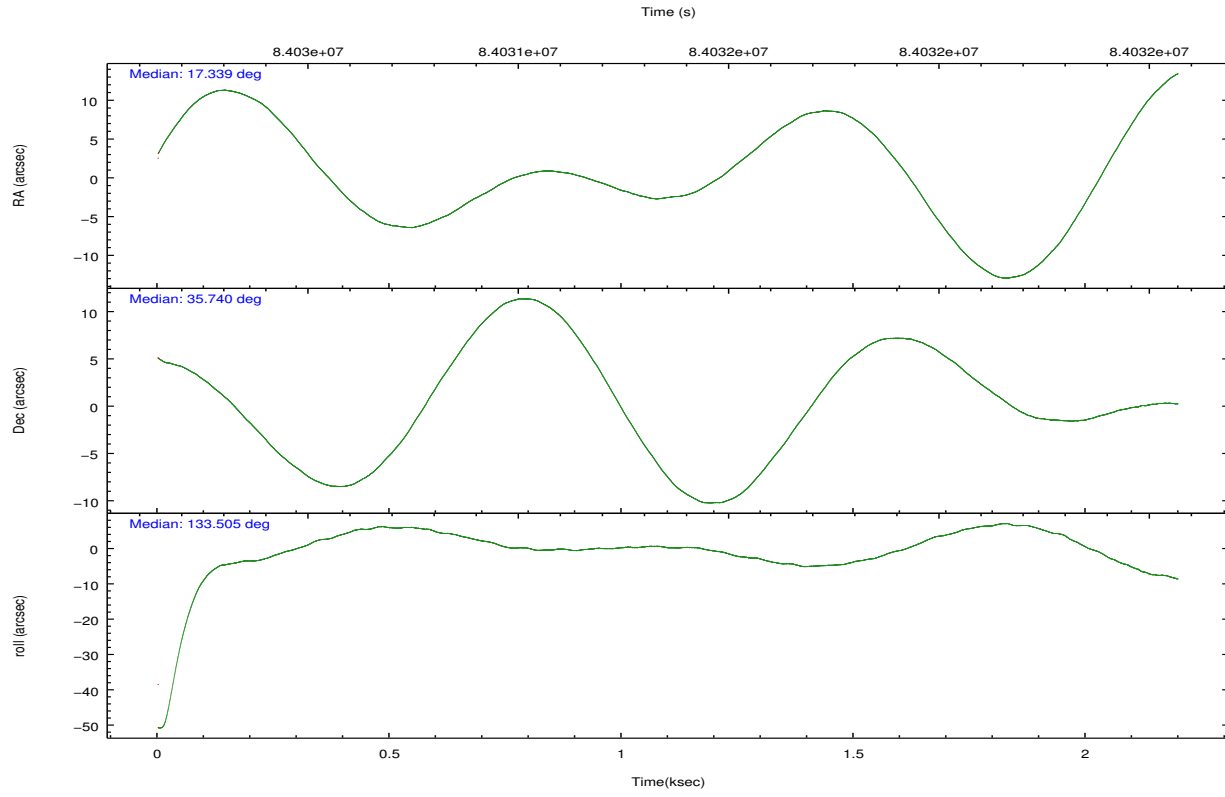
## 2.2 Compared Parameters

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	17.371331	17.33902740606143
[deg] Pointing Dec	35.732371	35.73995301691384
[deg] Pointing Roll	133.320180	133.4954040605188
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	84030457.184000	84029906.721949
Observation start date	2000-08-30T13:46:33	2000-08-30T13:38:26
[s] Observation end time (MET)	84032457.184000	84033452.709582
Observation end date	2000-08-30T14:19:53	2000-08-30T14:37:32
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





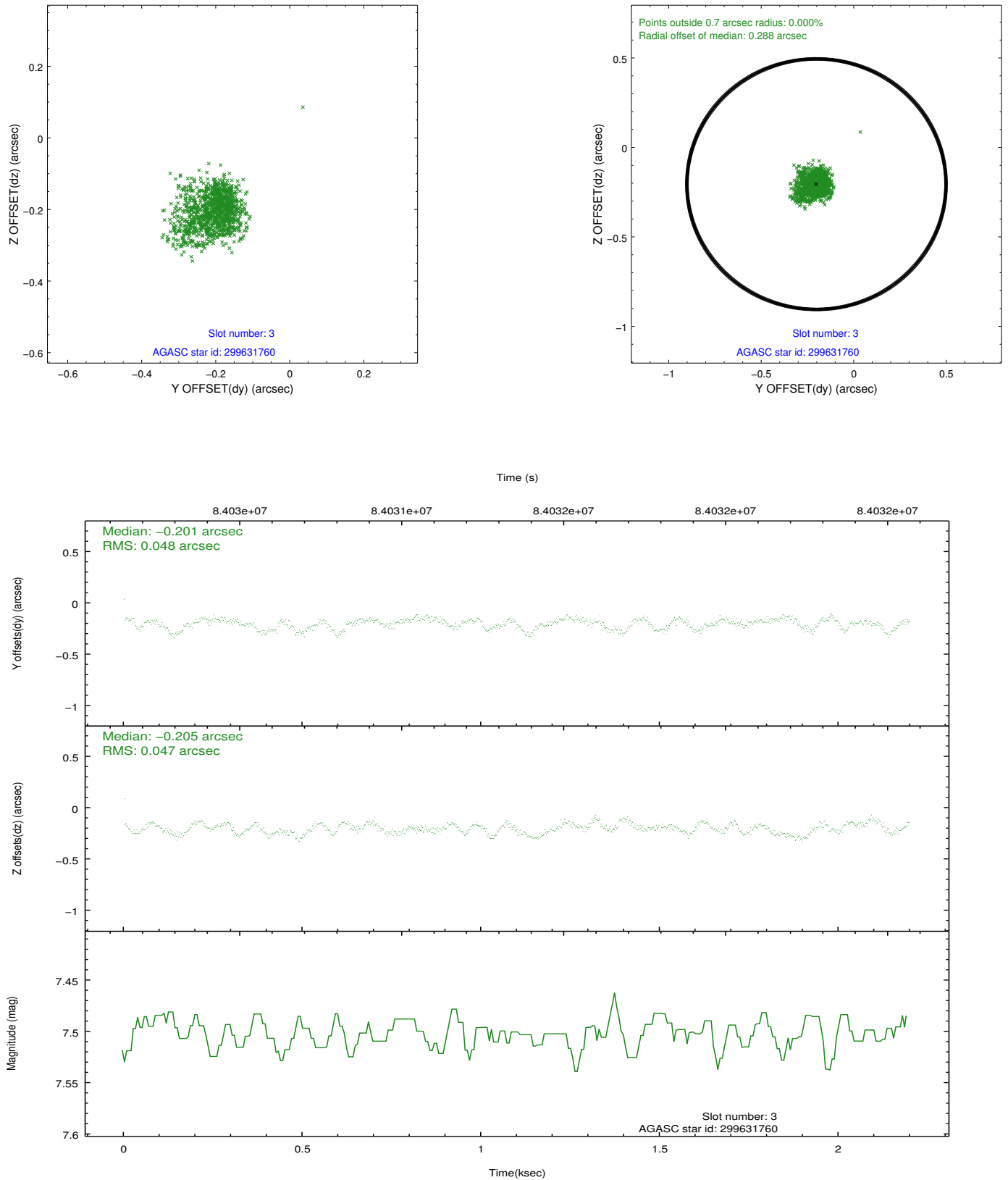
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	537	0.008	0.009	0.006	0.010	0.000000	0.000000	941.11	-1721.27
1	FID	ACIS-S-5	7.24	537	-0.009	0.021	0.006	0.009	0.000000	0.000000	-1806.26	173.23
2	FID	ACIS-S-6	7.35	537	-0.020	-0.018	0.006	0.010	0.000000	0.000000	403.42	820.52
3	GUIDE	299631760	7.50	1073	-0.201	-0.205	0.069	0.118	16.695472	35.572221	943.42	1831.06
4	GUIDE	300159208	8.77	1073	-0.142	0.194	0.069	0.114	17.621939	36.428687	1326.82	-2246.22
5	GUIDE	299634040	9.12	1073	0.167	-0.166	0.079	0.135	17.345109	34.918901	-2075.73	2064.34
6	GUIDE	300161848	9.23	1072	0.062	-0.107	0.073	0.123	17.003479	35.816423	956.59	574.64
7	GUIDE	301867736	9.44	1072	0.116	0.294	0.088	0.146	18.118417	35.982007	-832.62	-2203.96

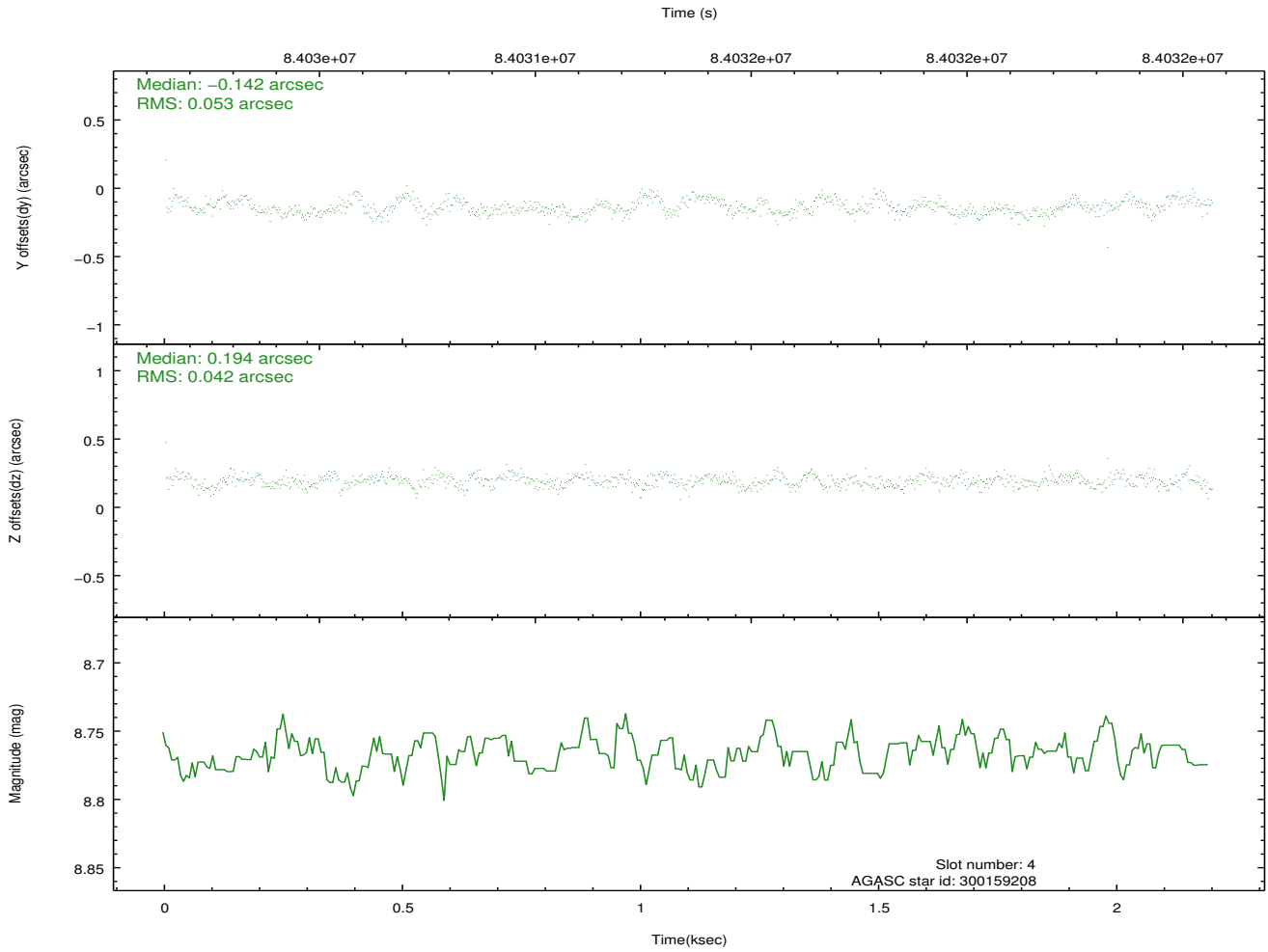
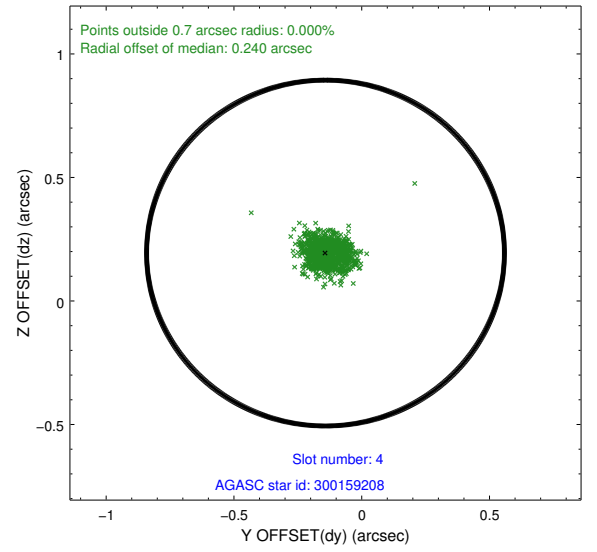
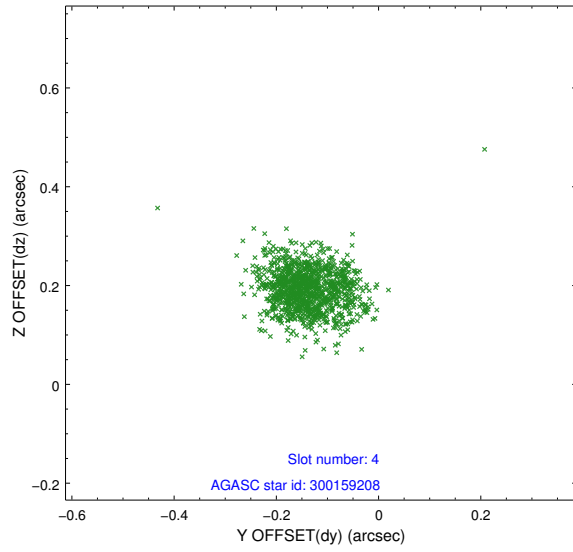


## 2.4 Star Slots

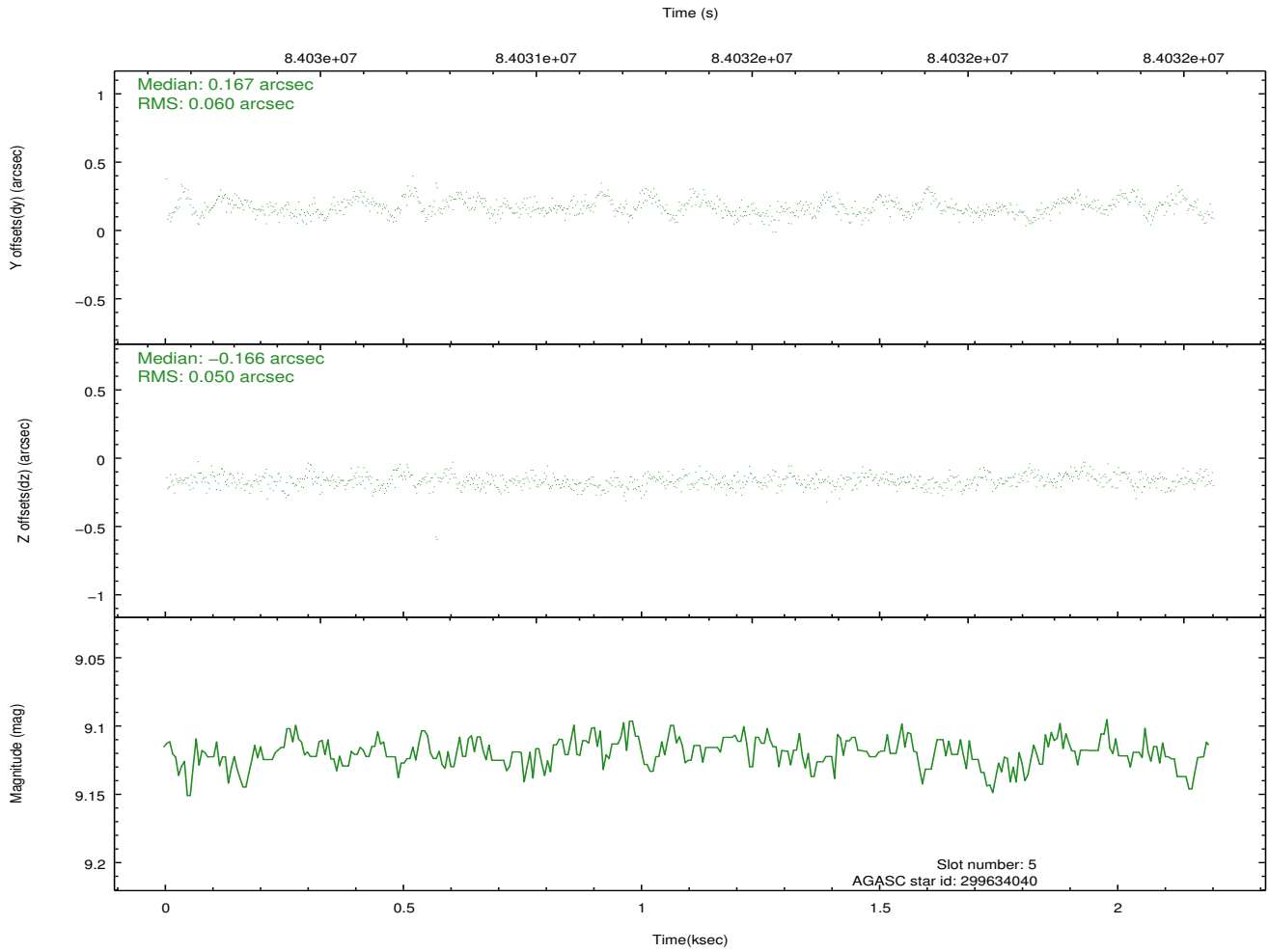
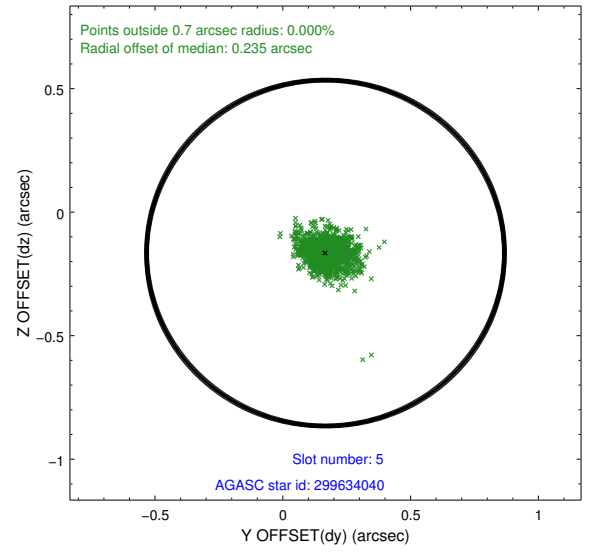
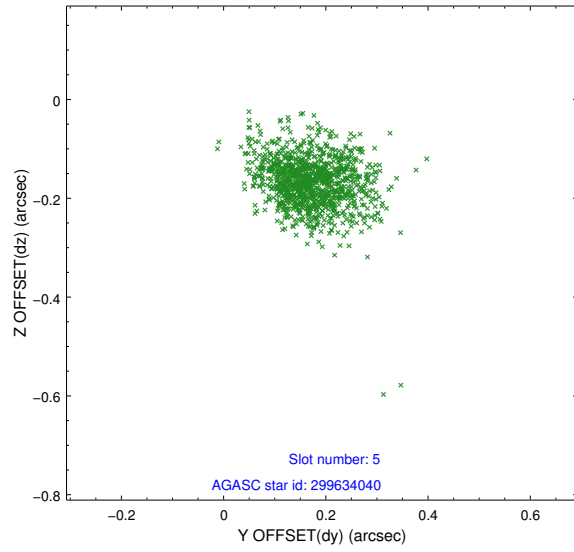
### 2.4.1 Slot 3



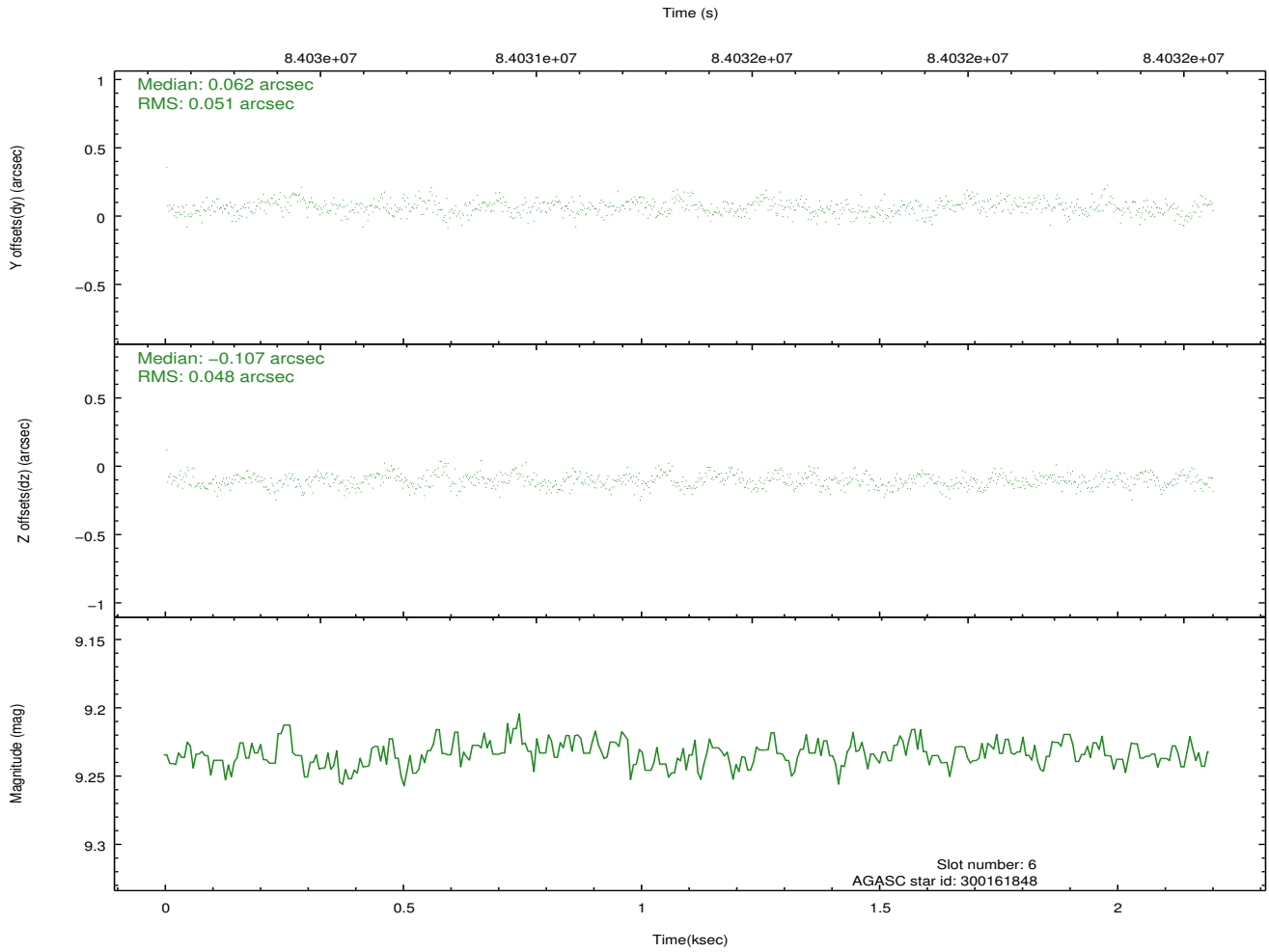
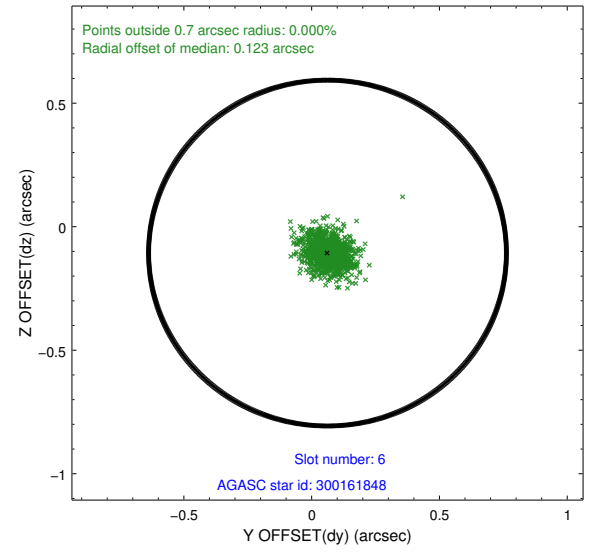
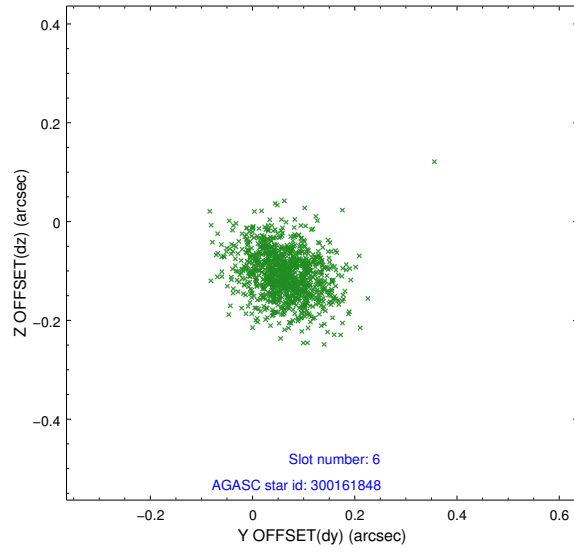
## 2.4.2 Slot 4



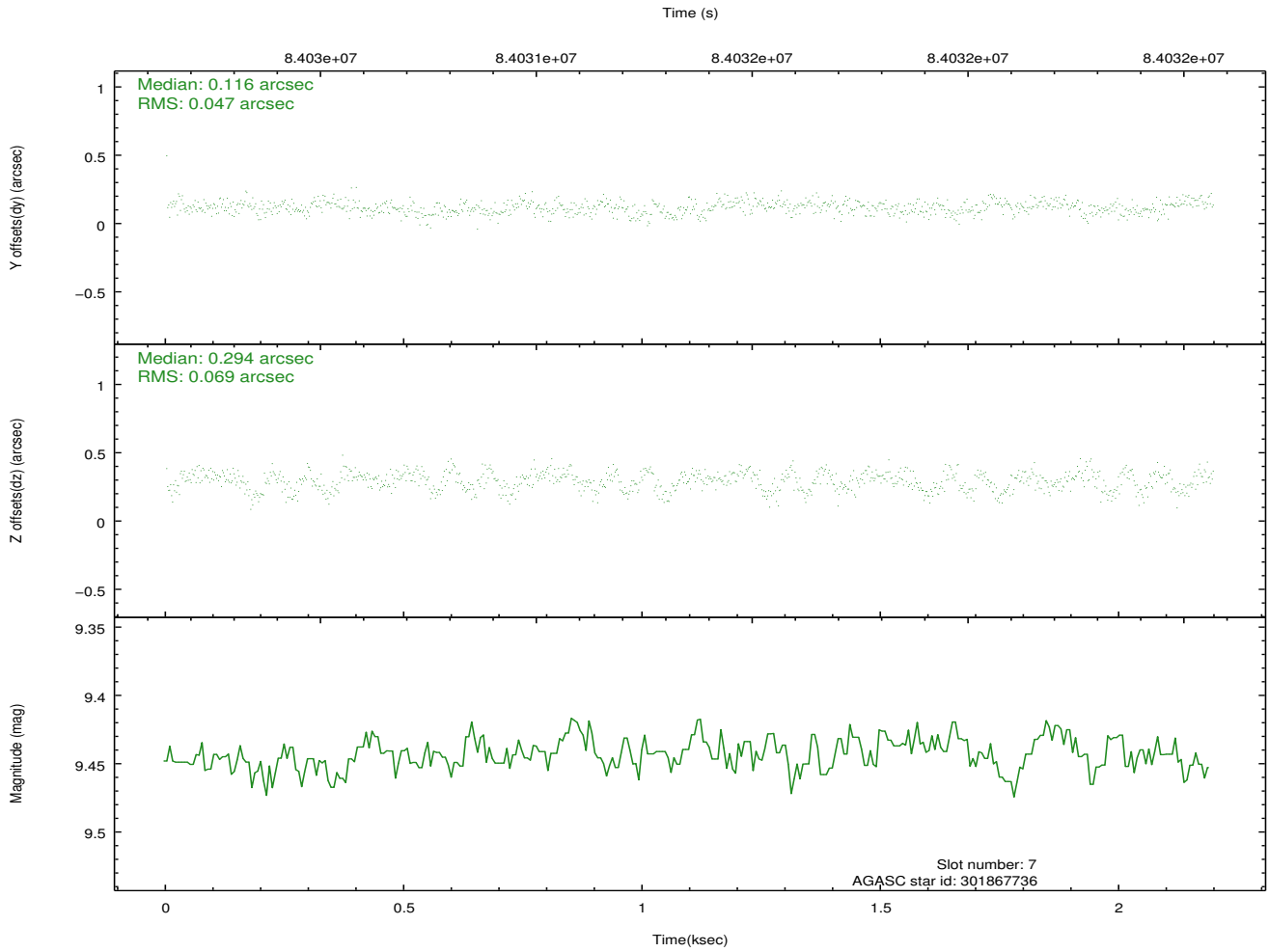
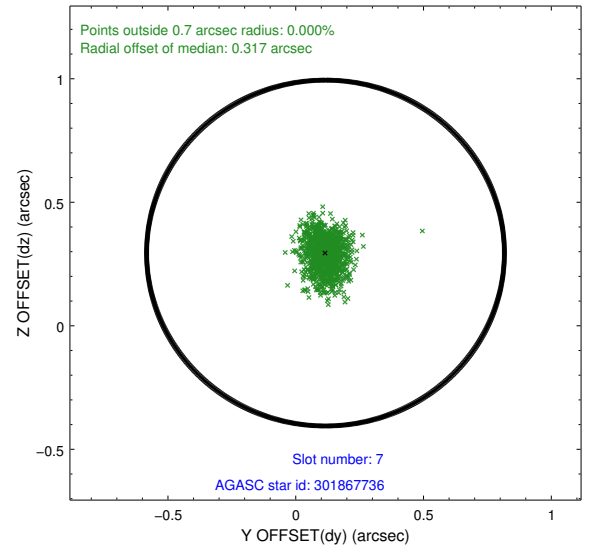
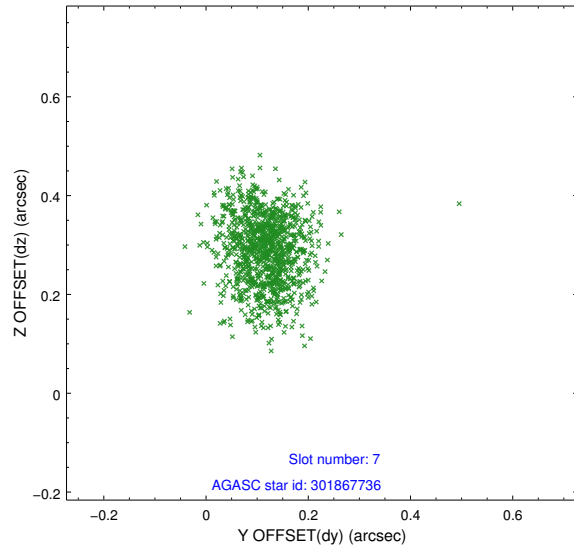
### 2.4.3 Slot 5



## 2.4.4 Slot 6

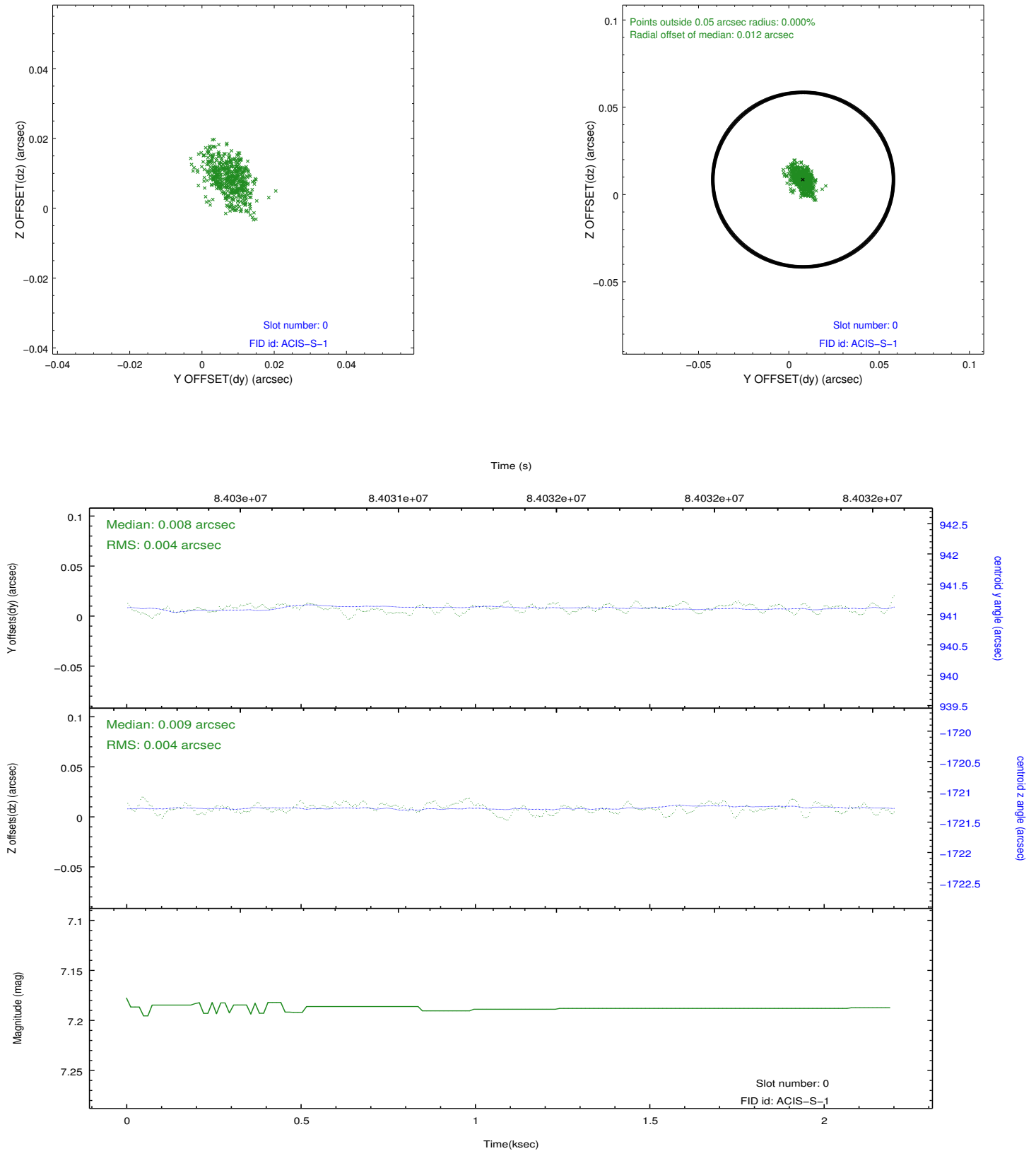


## 2.4.5 Slot 7

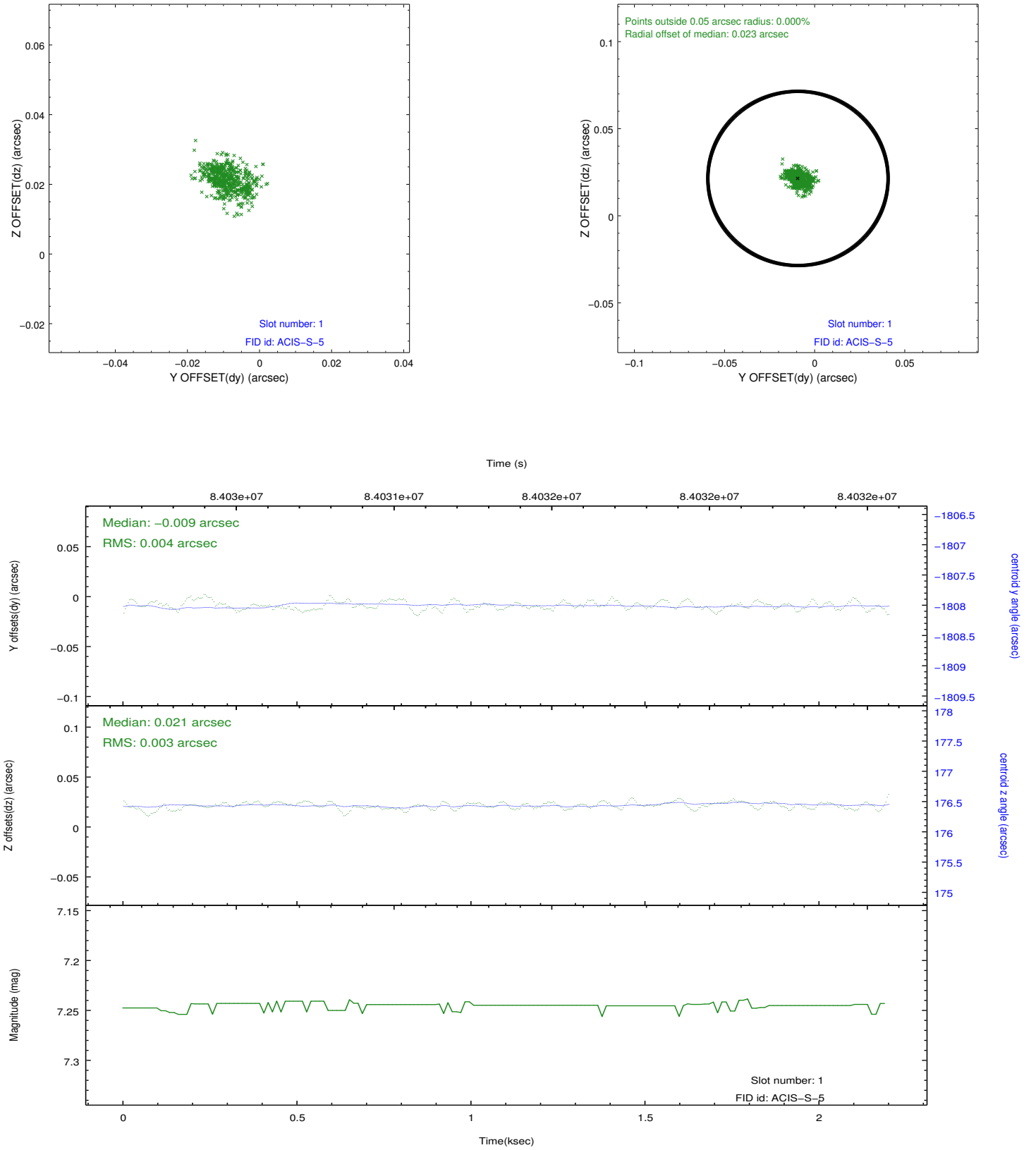


## 2.5 FID Slots

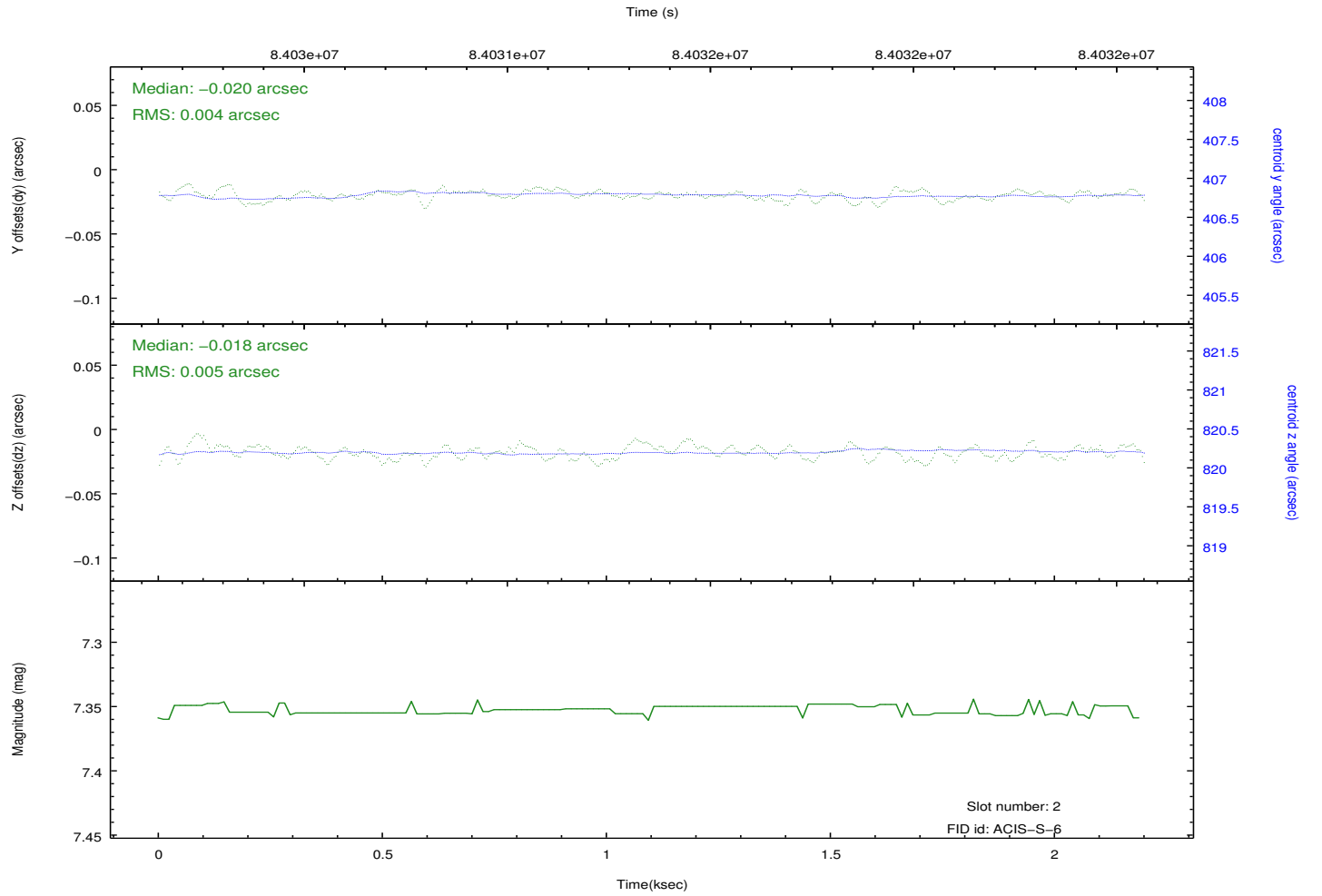
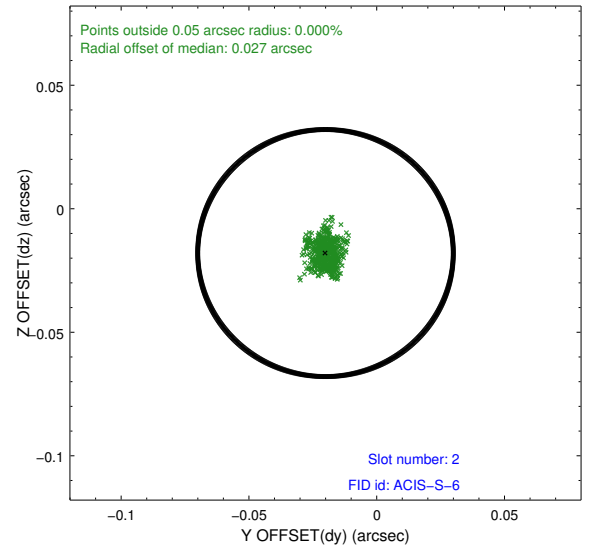
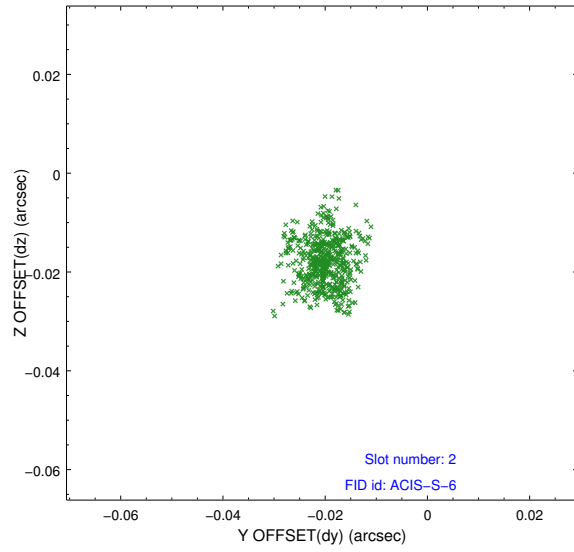
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.09.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.756

### A.2 Comments

Charge time for this observation remains at previous value of 1.756 ksec.