

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4035 - L2 Version 3  
Chandra X-Ray Center

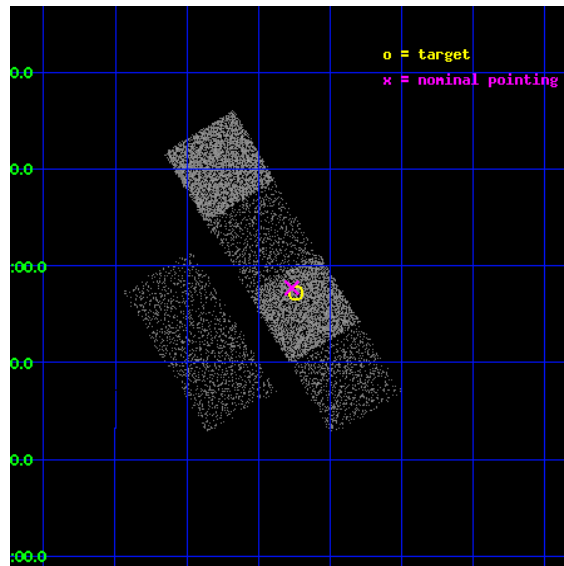
L2 Processing Date : Oct 20 2012

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# 1 Front

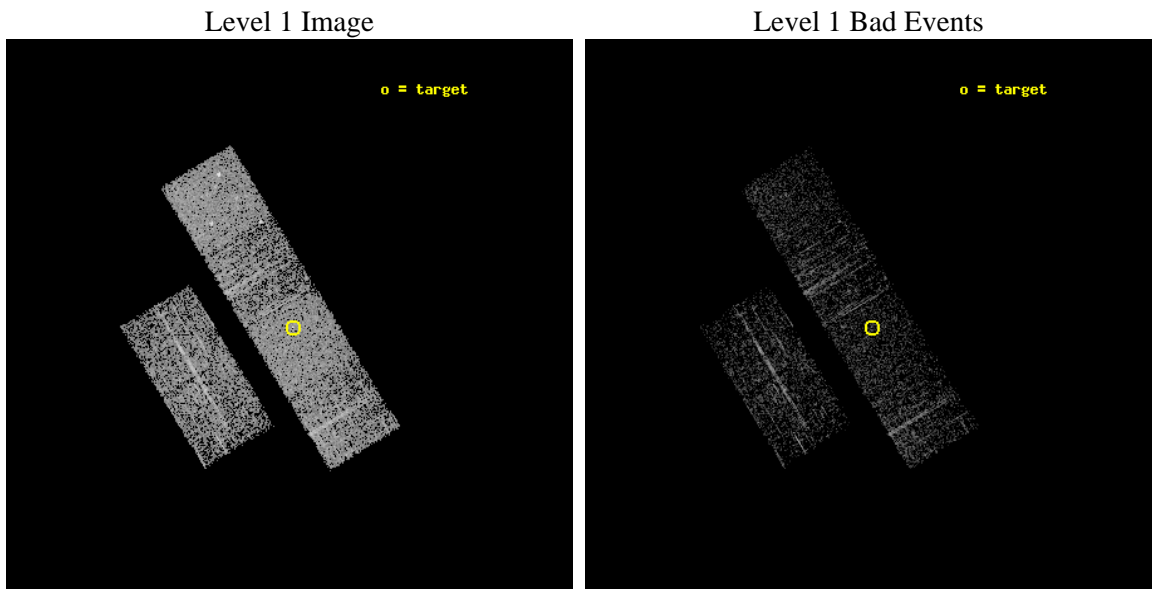
seq_num	700714	Sequence number
obs_id	4035	Observation id
title	WHY DO WE SEE BROAD LINES IN X-RAY ABSORBED AGN?	Proposal title
observer	Dr. Belinda Wilkes	Principal investigator
object	2MASS093844+005716	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	144.685417	Observer's specified target RA [deg]
dec_targ	0.954361	Observer's specified target Dec [deg]
ra_nom	144.69172820192	Nominal RA [deg]
dec_nom	0.96190482466161	Nominal Dec [deg]
roll_nom	58.793743993021	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1411.1999947429	Sum of GTIs [s]
livetime	1393.3305306868	Livetime [s]
ontime2	1411.1999947429	Sum of GTIs [s]
ontime3	1411.1999947429	Sum of GTIs [s]
ontime5	1411.1999947429	Sum of GTIs [s]
ontime6	1411.1999947429	Sum of GTIs [s]
ontime7	1411.1999947429	Sum of GTIs [s]
ontime8	1411.1999947429	Sum of GTIs [s]
l2events	14217	Number of level 2 events



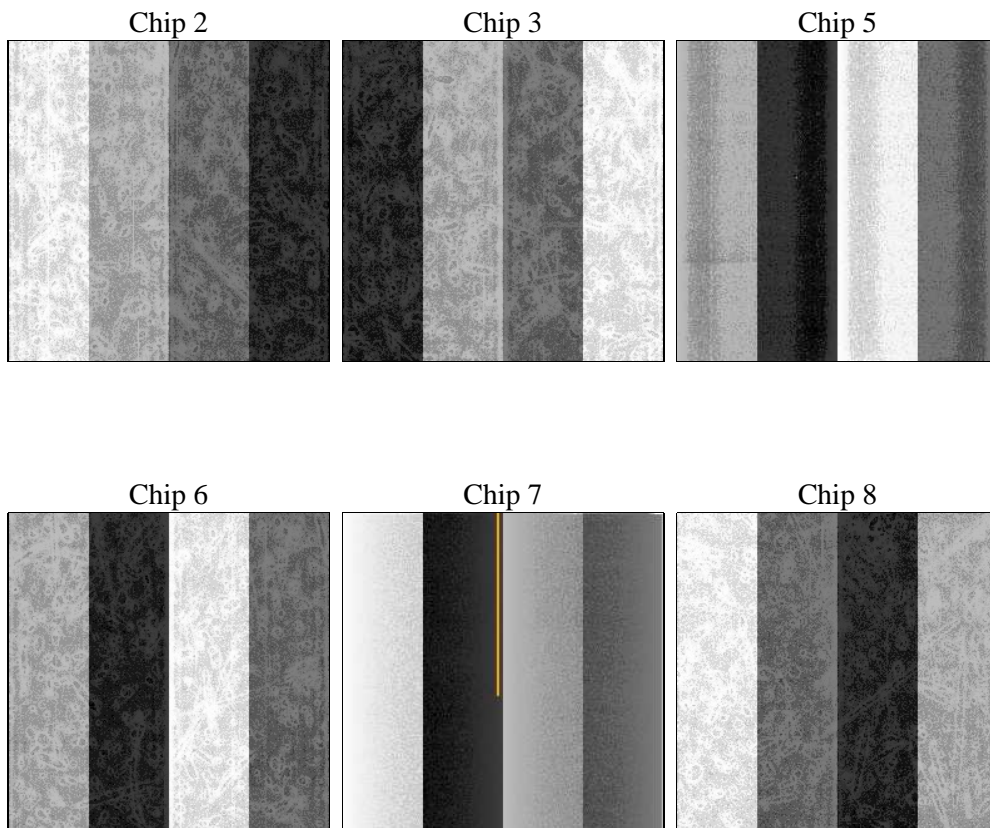
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	1318.382000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1411.1999947429	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	1411.1999947429	Sum of GTIs [s]
date	2012-10-20T16:41:35	Date and time of file creation	ontime3	1411.1999947429	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	1411.1999947429	Sum of GTIs [s]
			ontime6	1411.1999947429	Sum of GTIs [s]
			ontime7	1411.1999947429	Sum of GTIs [s]
			ontime8	1411.1999947429	Sum of GTIs [s]
			l1events	64217	Number of level 1 events

### 2.1.4 Events

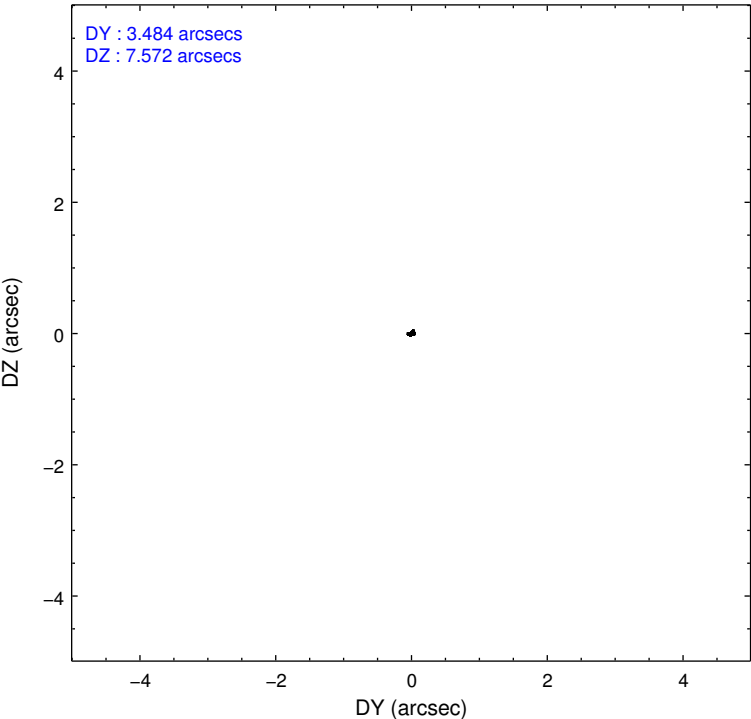
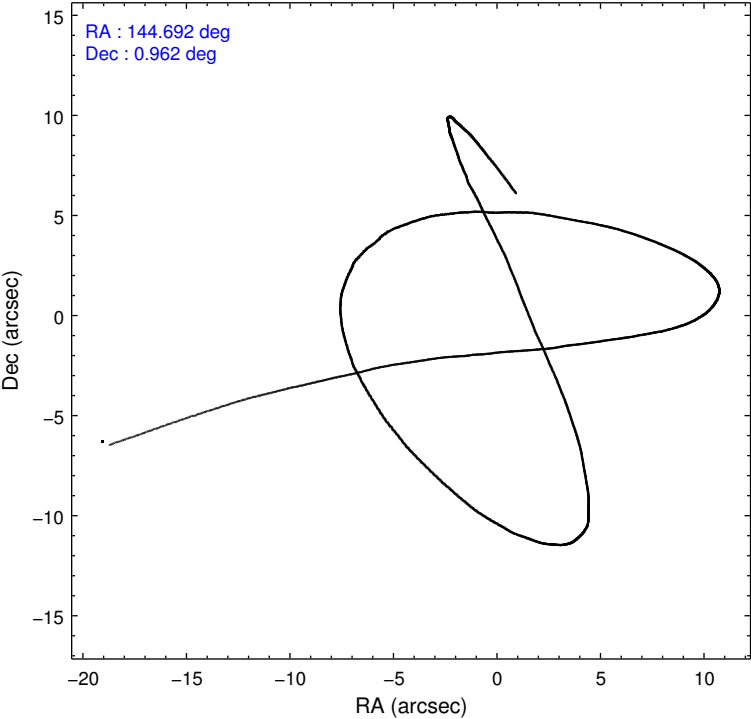
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	8947	9067	13341	9804	11907	11151
rejected events	7991	8038	6773	8697	6899	8843
rejected %	89%	88%	50%	88%	57%	79%

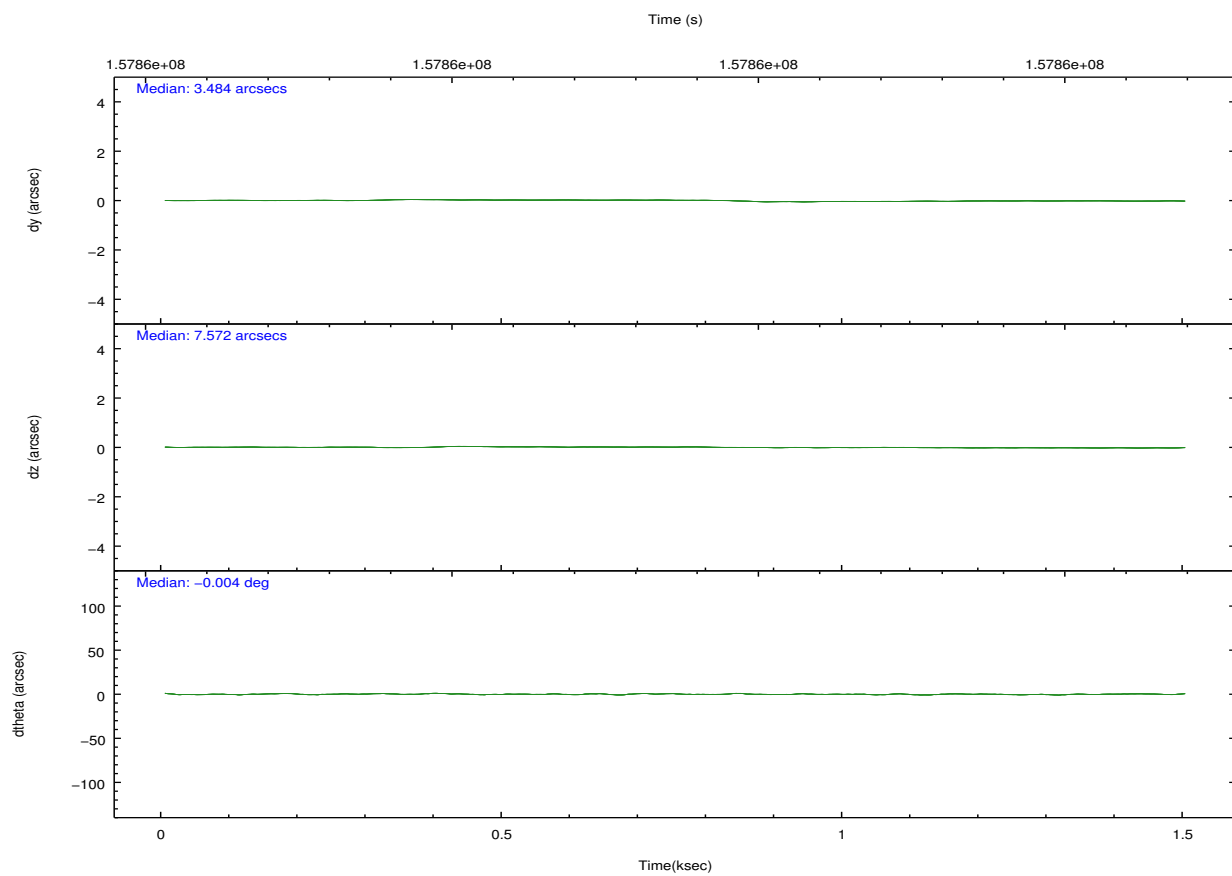
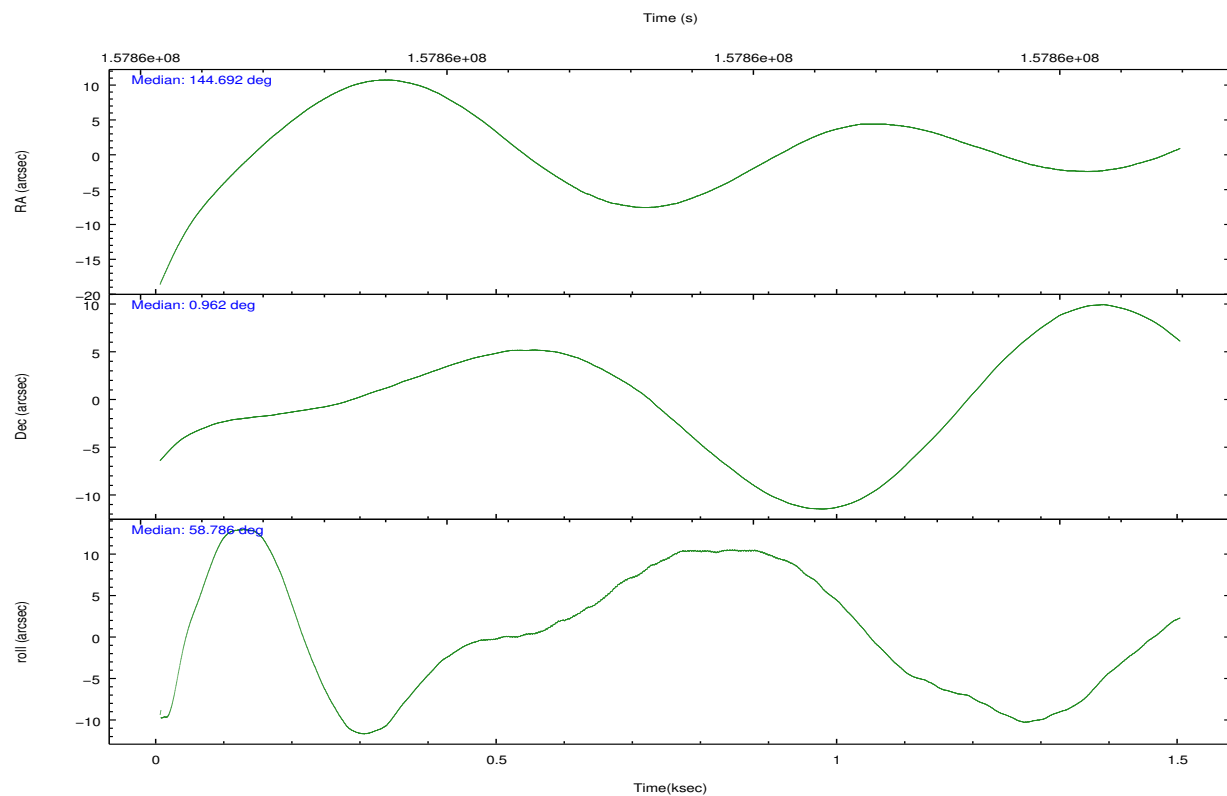
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	411	457	934	440	486	772
	4%	5%	7%	4%	4%	6%
grade 1 events	2	6	48	3	8	3
	0%	0%	0%	0%	0%	0%
grade 2 events	178	206	2012	229	1013	499
	1%	2%	15%	2%	8%	4%
grade 3 events	96	100	273	104	427	253
	1%	1%	2%	1%	3%	2%
grade 4 events	97	110	262	112	447	245
	1%	1%	1%	1%	3%	2%
grade 5 events	308	347	960	424	1196	507
	3%	3%	7%	4%	10%	4%
grade 6 events	175	161	3101	223	2650	541
	1%	1%	23%	2%	22%	4%
grade 7 events	7680	7680	5751	8269	5680	8331
	85%	84%	43%	84%	47%	74%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	144.691593	144.6917282019175	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.934393	0.9619048246616073	Alternating exposures requested	N	N
[deg] Pointing Roll	58.637325	58.79374399302073	[s] Primary exposure time	0.000000	3.2
[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)	157862298.184000	157861272.09625			
Observation start date	2003-01-02T02:37:14	2003-01-02T02:21:12			
[s] Observation end time (MET)	157863616.184000	157863930.94636			
Observation end date	2003-01-02T02:59:12	2003-01-02T03:05:30			
Read mode	TIMED	TIMED			

### 2.3 Aspect





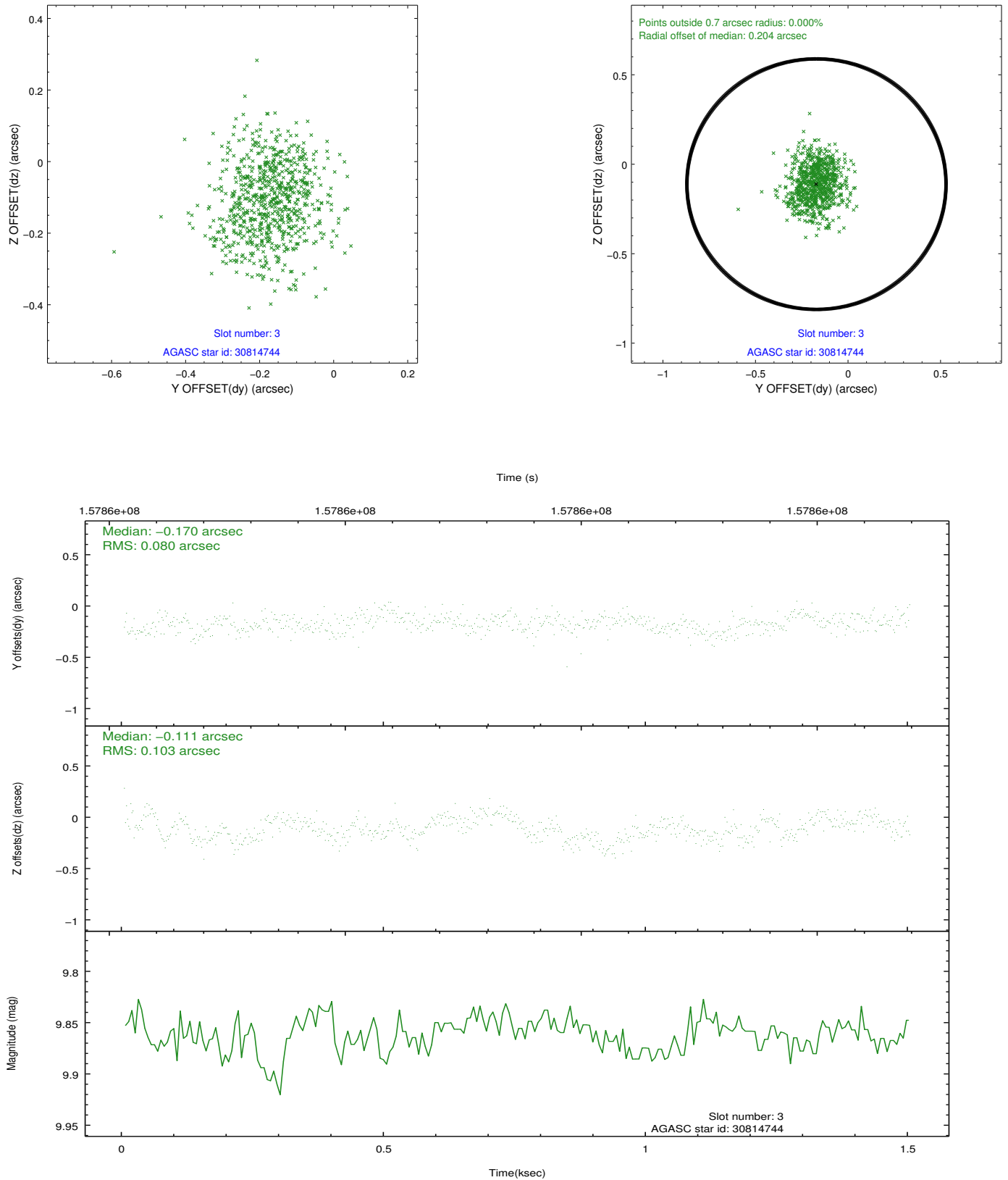
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	366	-0.004	0.005	0.006	0.011	0.000000	0.000000	-756.15	-1728.74
1	FID	ACIS-S-4	7.21	366	-0.003	0.001	0.005	0.009	0.000000	0.000000	2155.14	175.15
2	FID	ACIS-S-5	7.24	366	-0.024	0.003	0.006	0.010	0.000000	0.000000	-1803.31	173.88
3	GUIDE	30814744	9.86	731	-0.170	-0.111	0.139	0.222	144.864543	1.592847	2347.06	701.91
4	GUIDE	30815904	9.67	731	0.078	-0.228	0.107	0.175	144.341309	0.951817	-599.96	1109.31
5	GUIDE	30941672	9.74	730	-0.144	0.293	0.125	0.197	145.383553	0.882700	1136.46	-2222.17
6	GUIDE	30945128	9.74	732	0.037	0.219	0.140	0.233	145.188580	0.500515	-401.08	-2344.08
7	GUIDE	30817696	9.37	730	0.184	-0.168	0.090	0.152	144.323150	0.738417	-1293.59	761.18

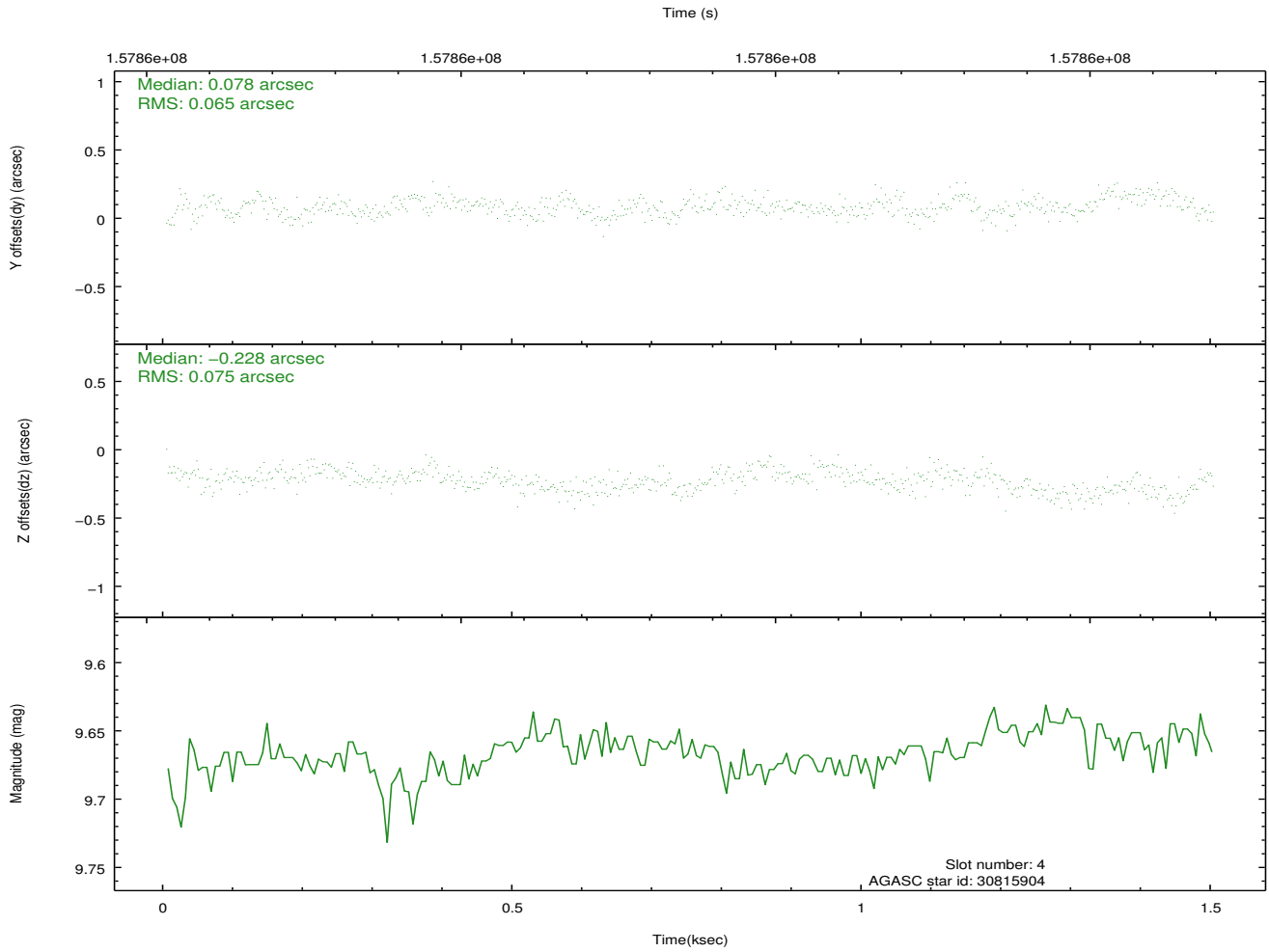
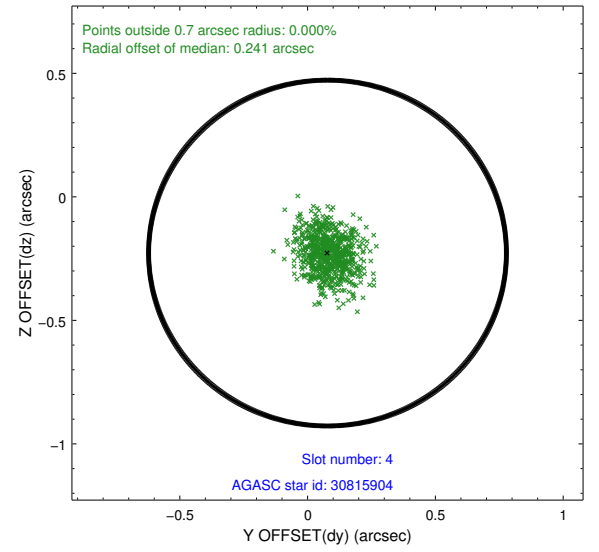
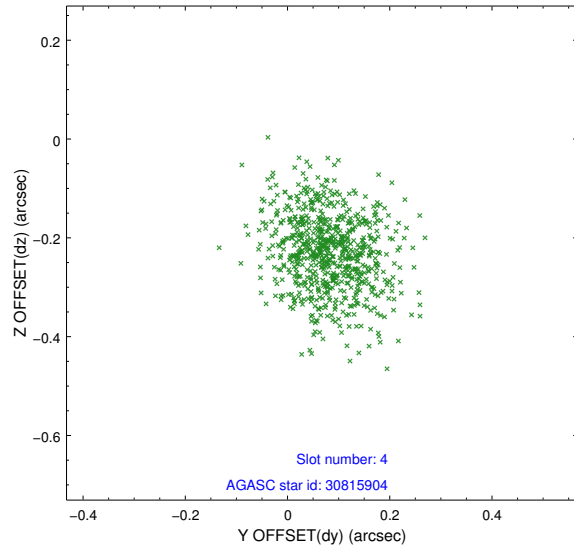


## 2.4 Star Slots

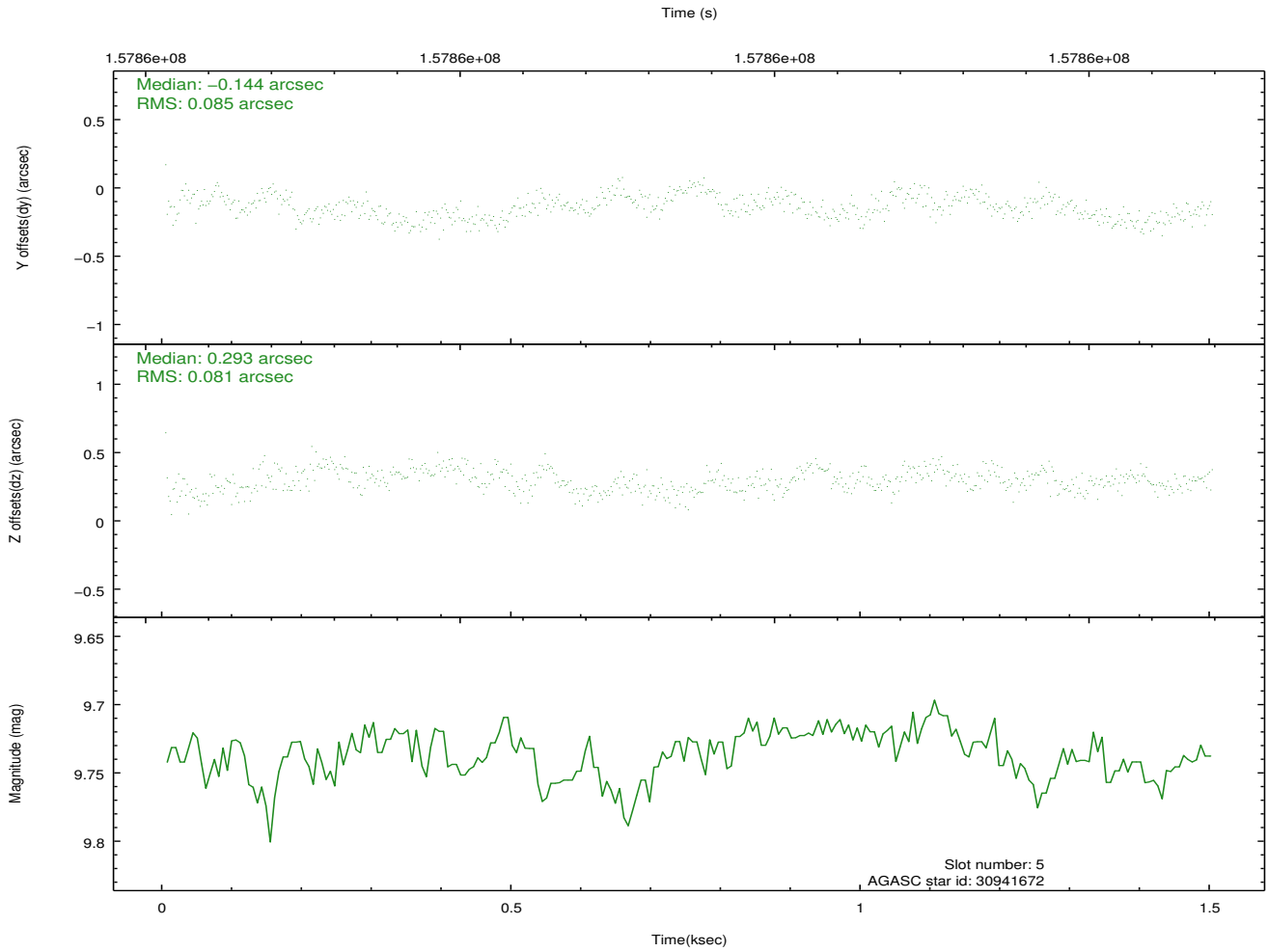
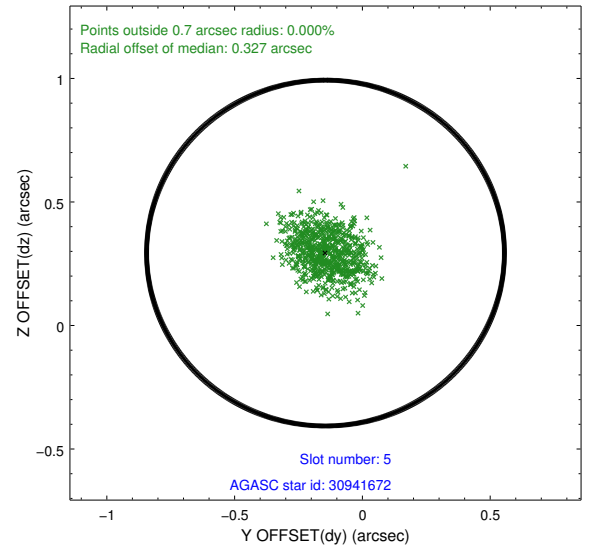
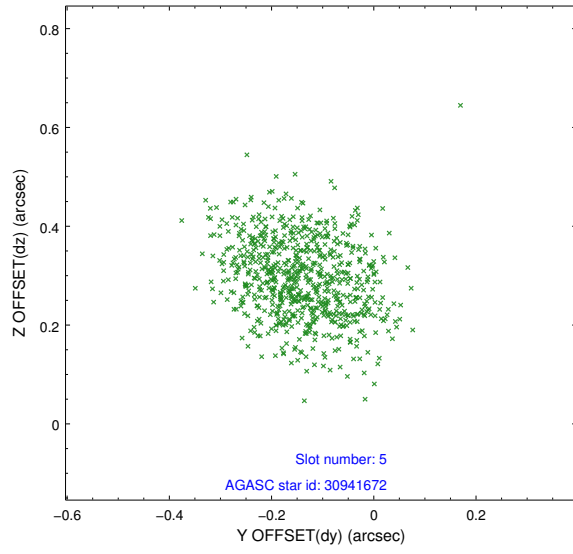
### 2.4.1 Slot 3



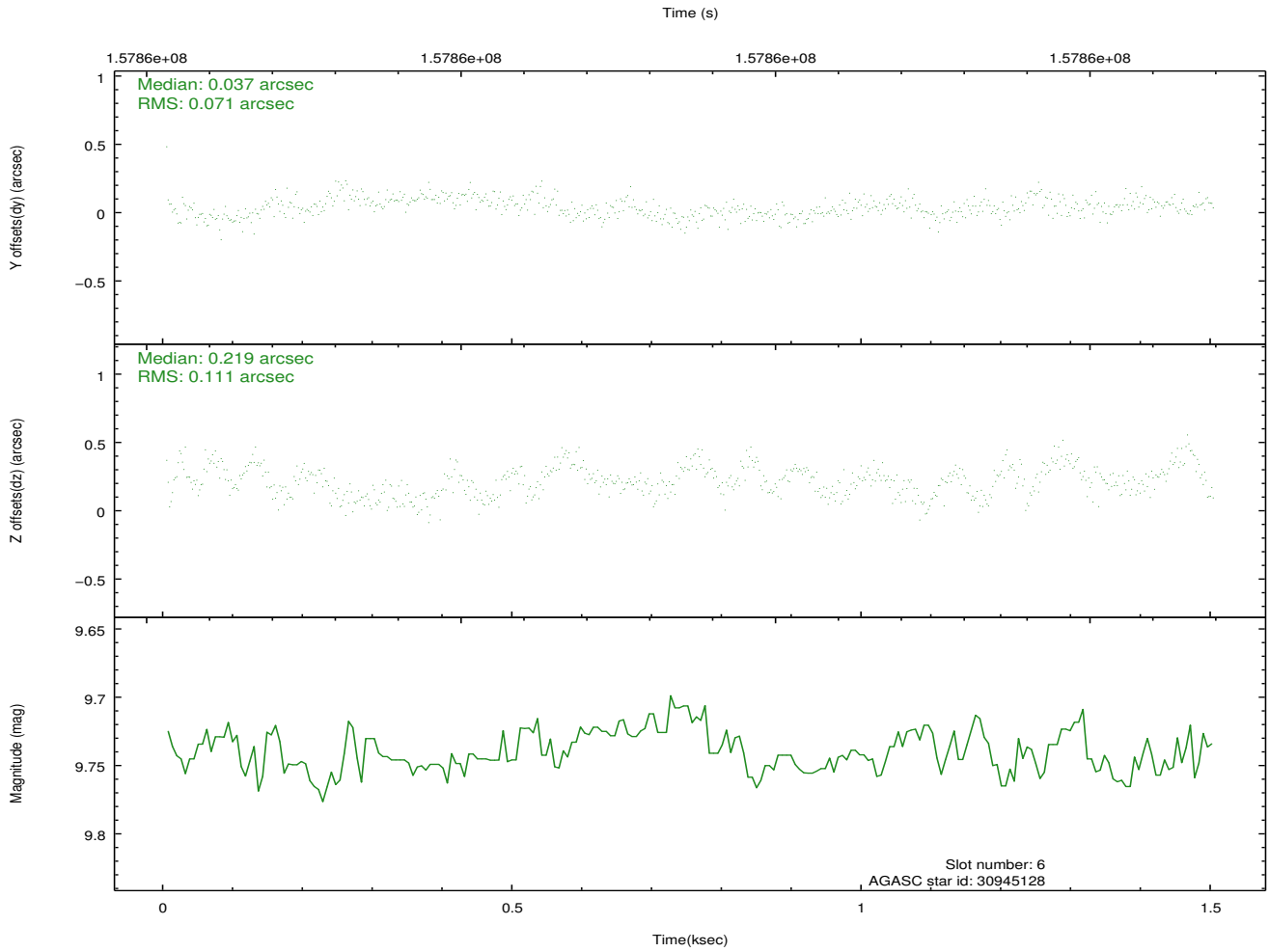
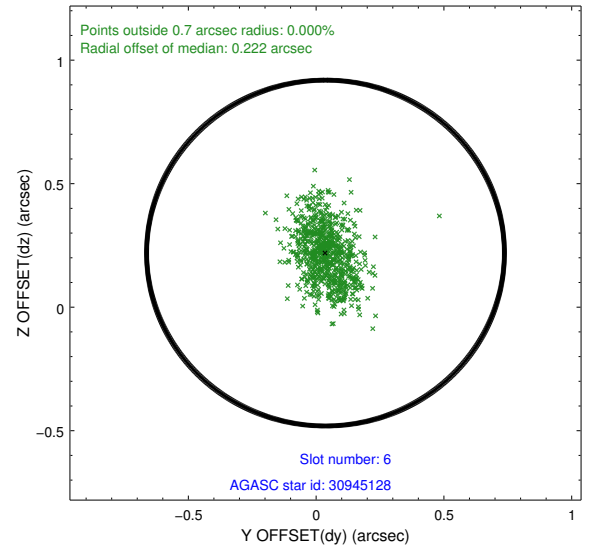
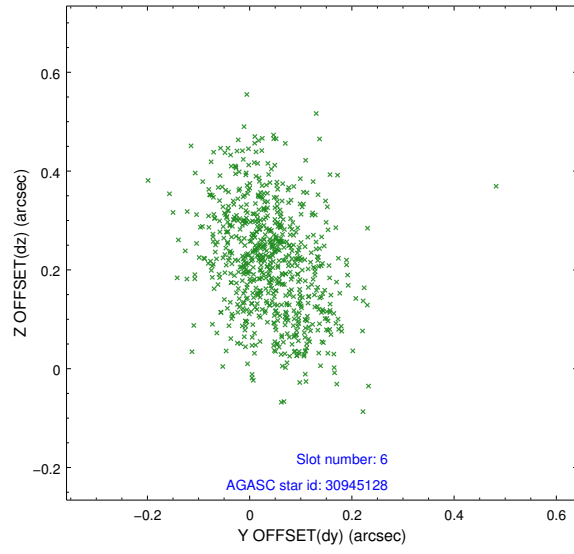
## 2.4.2 Slot 4



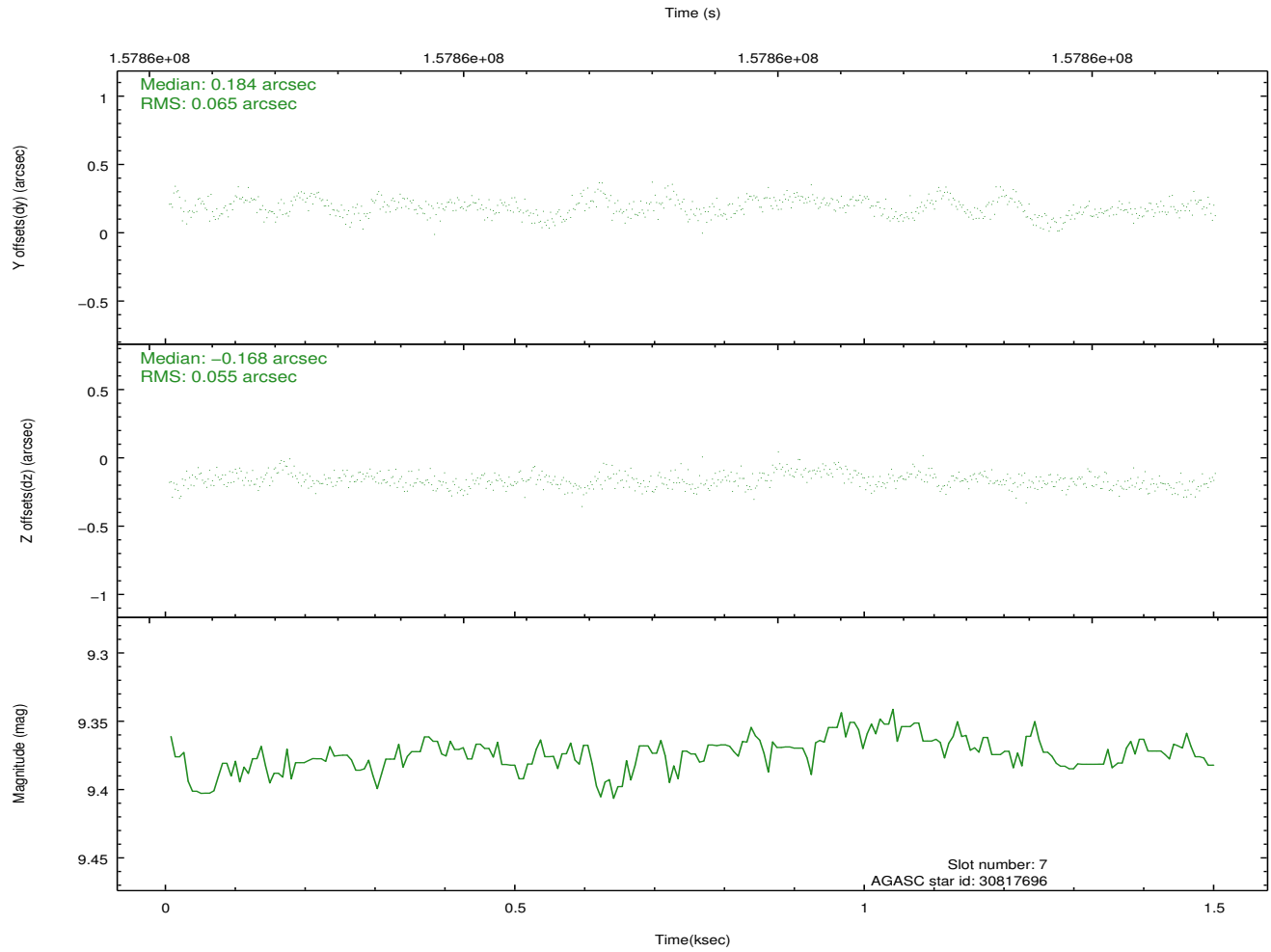
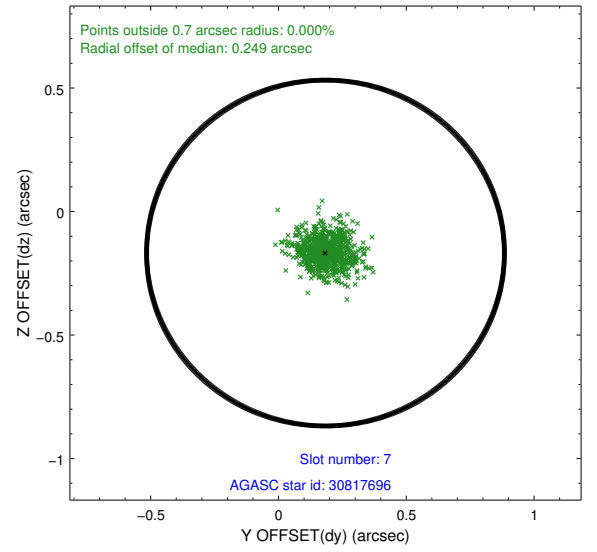
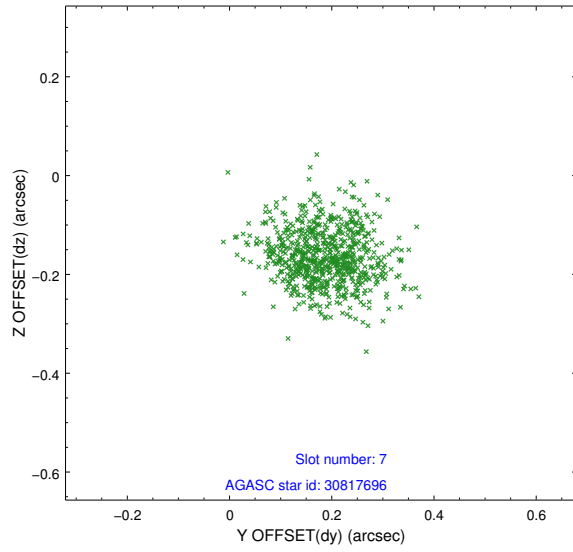
### 2.4.3 Slot 5



## 2.4.4 Slot 6

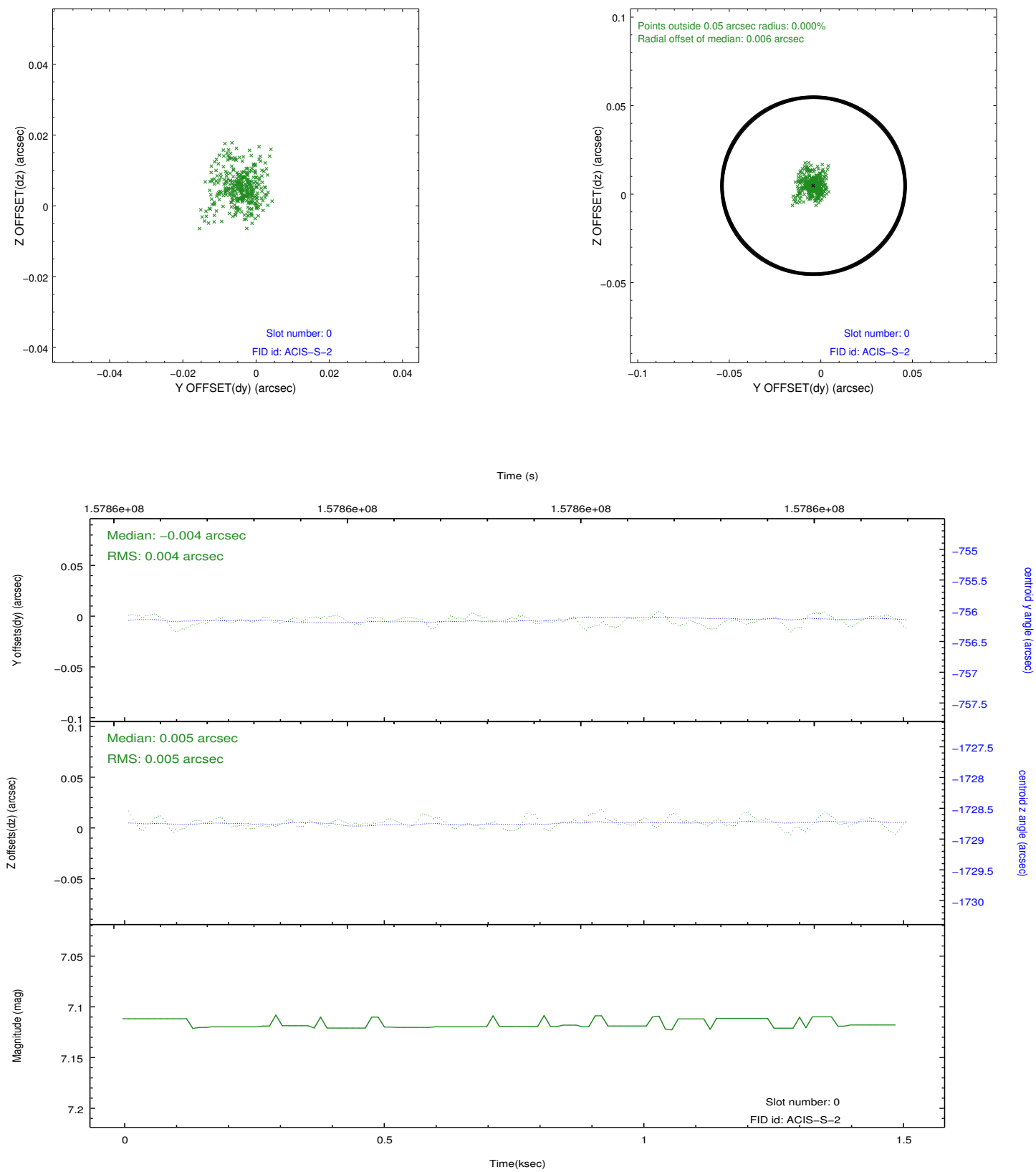


## 2.4.5 Slot 7

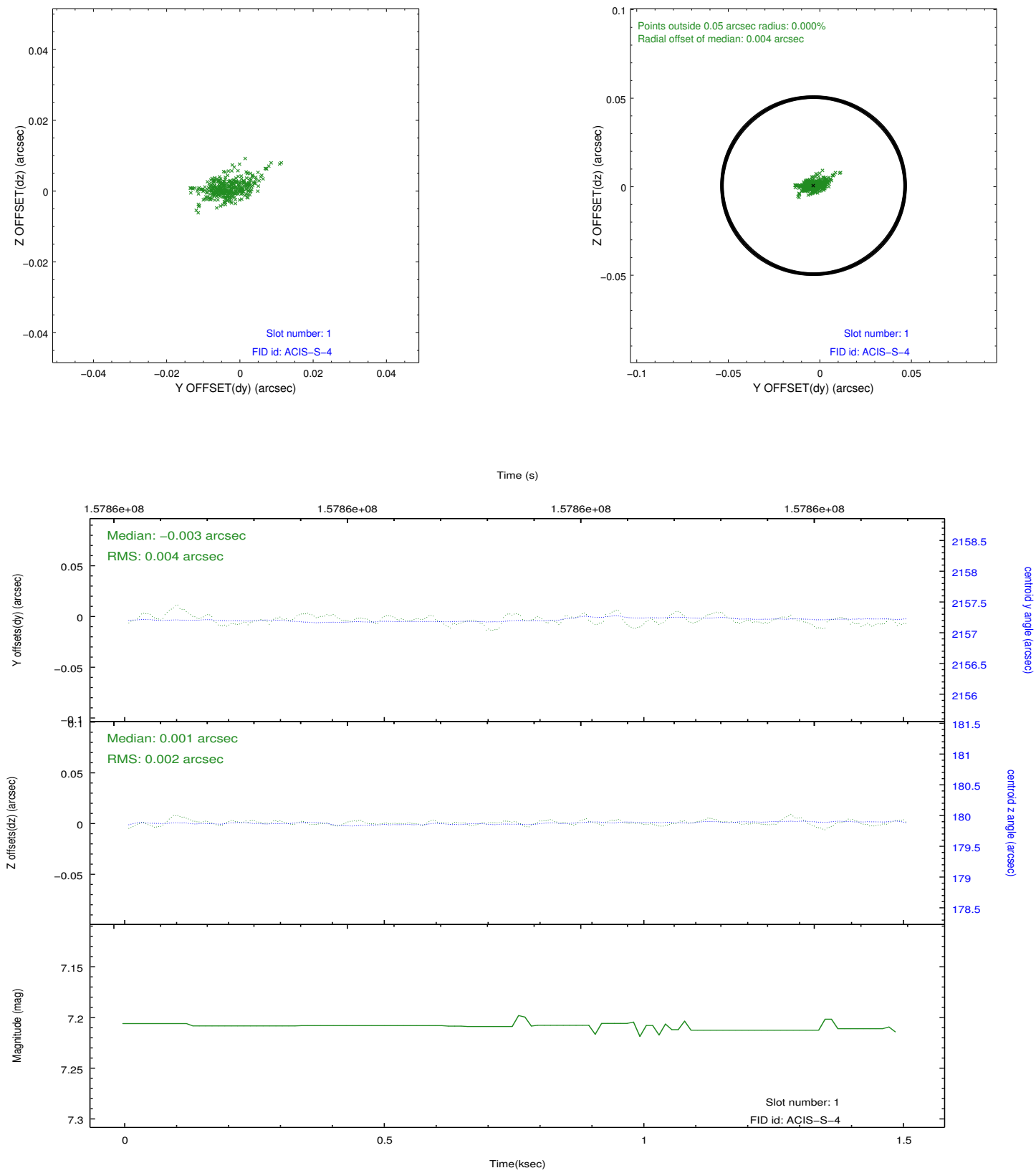


# 2.5 FID Slots

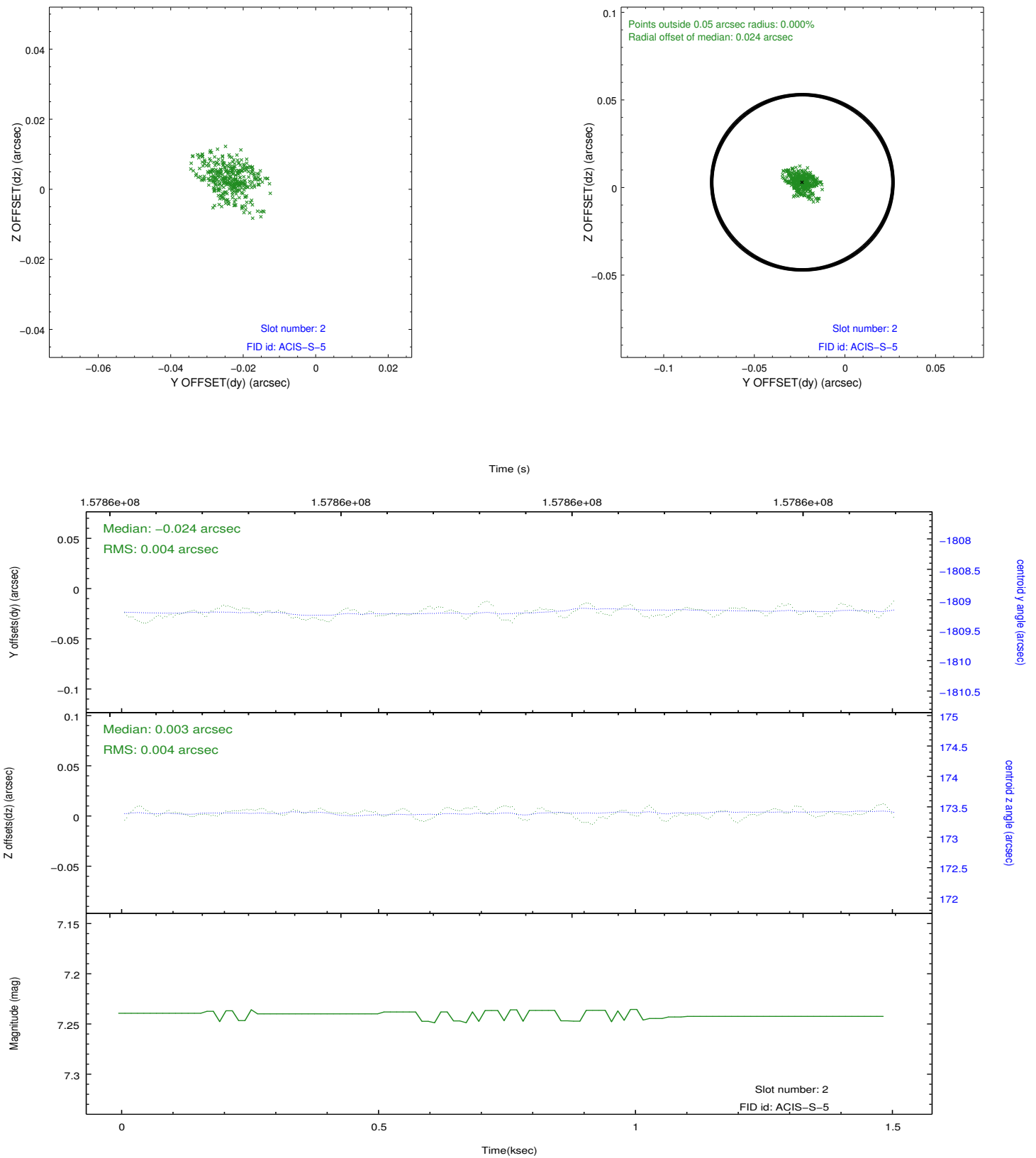
## 2.5.1 Slot 0



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)	2012.10.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.414

### A.2 Comments