

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3068 - L2 Version 3  
Chandra X-Ray Center

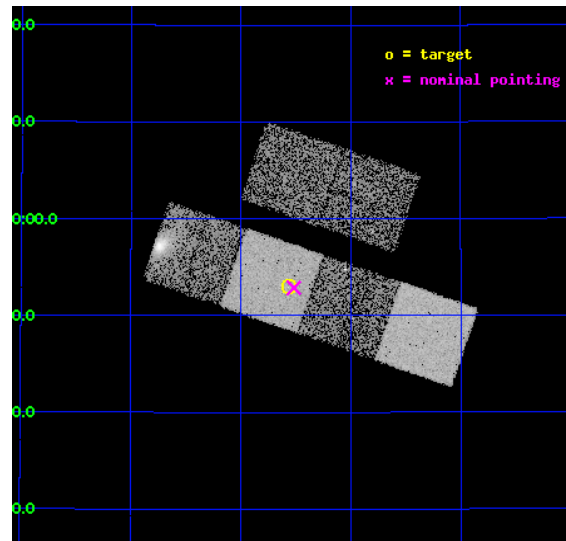
L2 Processing Date : Oct 3 2012

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# 1 Front

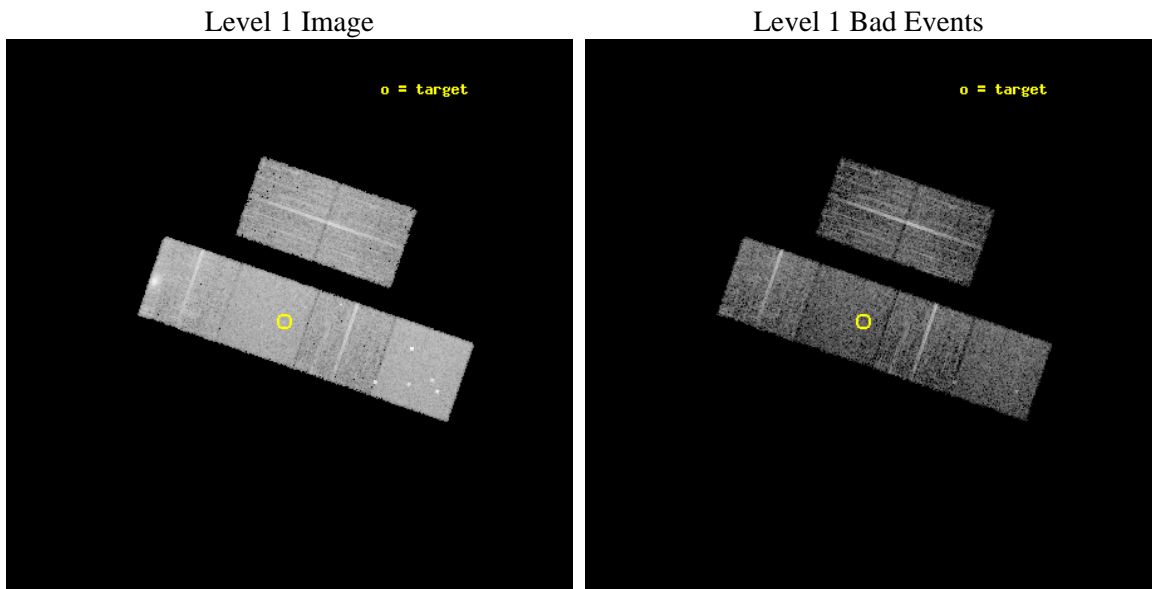
seq_num	700507	Sequence number
obs_id	3068	Observation id
title	X-RAY WEAK BROAD-LINE QUASARS: ABSORPTION OR INTRINSIC X_RAY WEAKNESS ?	Proposal title
observer	Dr Guido Risaliti	Principal investigator
object	HS 1036+4008	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	159.892083	Observer's specified target RA [deg]
dec_targ	39.882722	Observer's specified target Dec [deg]
ra_nom	159.87946509194	Nominal RA [deg]
dec_nom	39.881162539222	Nominal Dec [deg]
roll_nom	198.9252763292	Nominal Roll [deg]
revision	3	Processing version of data
ontime	6056.6009732783	Sum of GTIs [s]
livetime	5979.9086449074	Livetime [s]
ontime2	6056.6420132816	Sum of GTIs [s]
ontime3	6056.4778532833	Sum of GTIs [s]
ontime5	6056.5599133521	Sum of GTIs [s]
ontime6	6056.5188932866	Sum of GTIs [s]
ontime7	6056.6009732783	Sum of GTIs [s]
ontime8	6053.1957334429	Sum of GTIs [s]
l2events	67892	Number of level 2 events



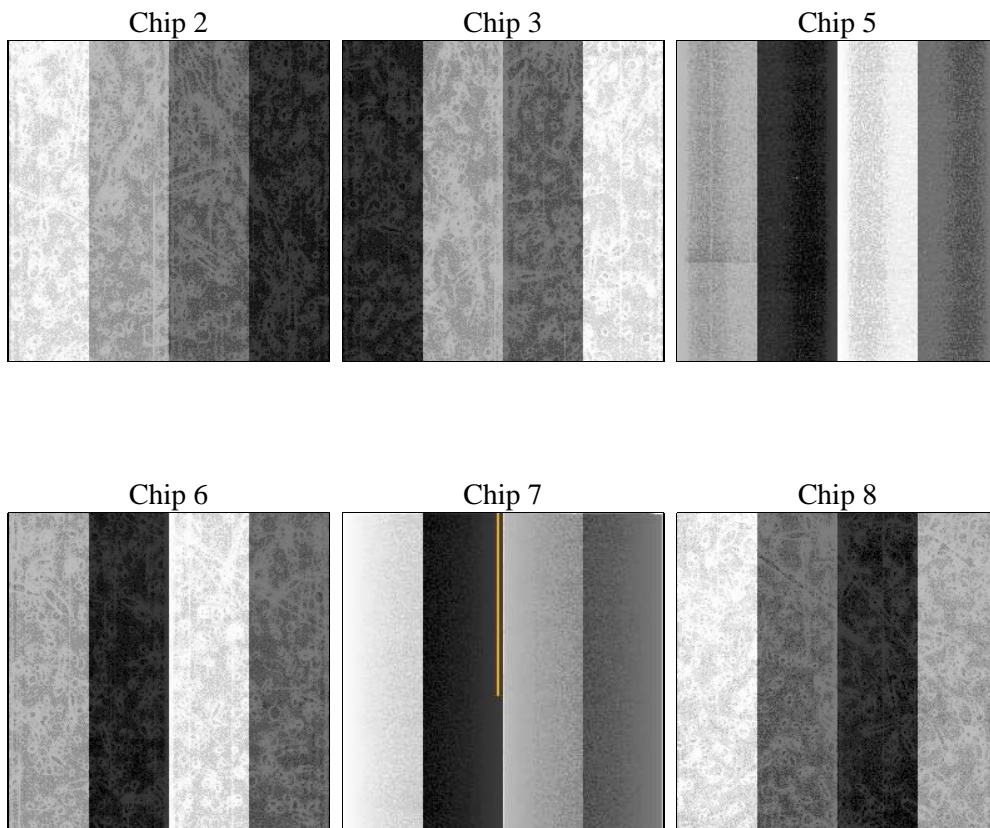
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6300.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6056.6009732783	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime2	6056.6420132816	Sum of GTIs [s]
date	2012-10-03T19:49:59	Date and time of file creation	ontime3	6056.4778532833	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	6056.5599133521	Sum of GTIs [s]
			ontime6	6056.5188932866	Sum of GTIs [s]
			ontime7	6056.6009732783	Sum of GTIs [s]
			ontime8	6053.1957334429	Sum of GTIs [s]
			l1events	298874	Number of level 1 events

### 2.1.4 Events

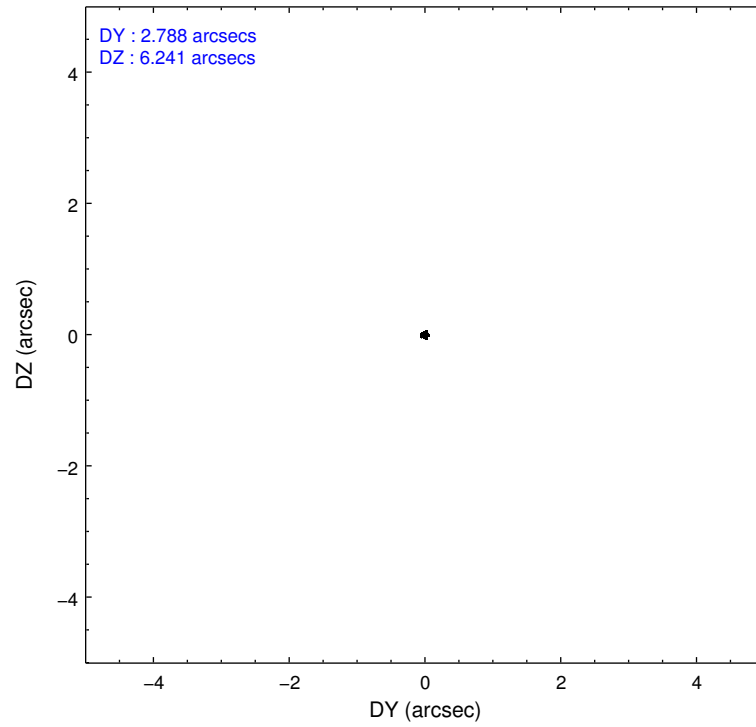
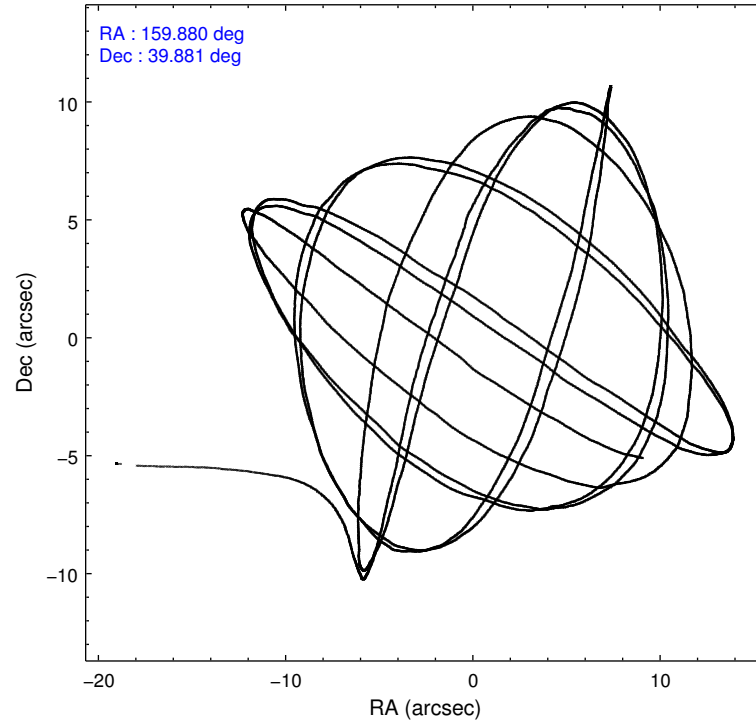
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	40862	39807	60884	41263	53535	62523	grade 0 events	2018	1885	4438	2114	2097	8455
rejected events	36094	35210	31934	36259	31389	45155		4%	4%	7%	5%	3%	13%
rejected %	88%	88%	52%	87%	58%	72%	grade 1 events	19	17	92	18	64	65
								0%	0%	0%	0%	0%	0%
							grade 2 events	1033	977	8272	975	4394	2907
								2%	2%	13%	2%	8%	4%
							grade 3 events	426	420	1155	498	1984	1500
								1%	1%	1%	1%	3%	2%
							grade 4 events	428	444	1129	465	1926	1423
								1%	1%	1%	1%	3%	2%
							grade 5 events	1439	1596	4556	1810	5109	2200
								3%	4%	7%	4%	9%	3%
							grade 6 events	869	874	13976	954	11758	3088
								2%	2%	22%	2%	21%	4%
							grade 7 events	34630	33594	27266	34429	26203	42885
								84%	84%	44%	83%	48%	68%

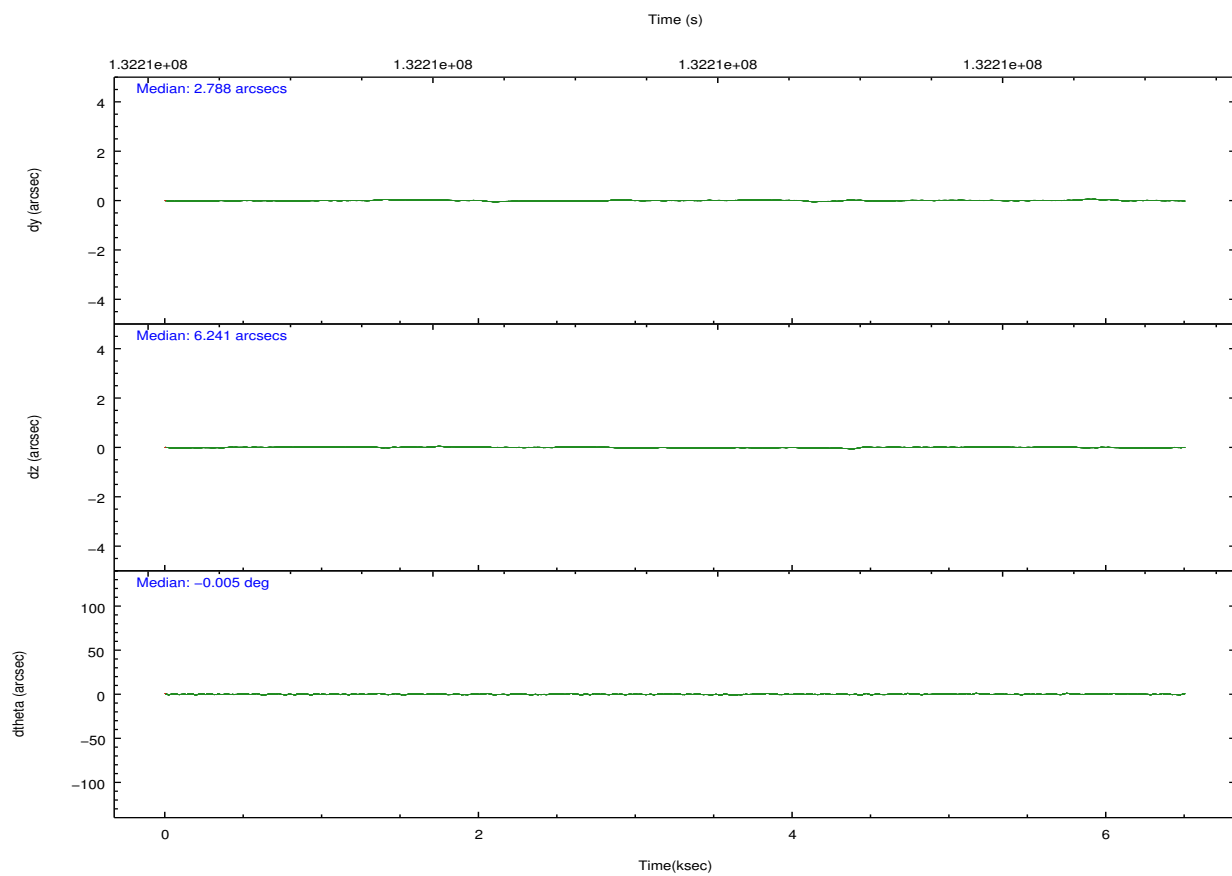
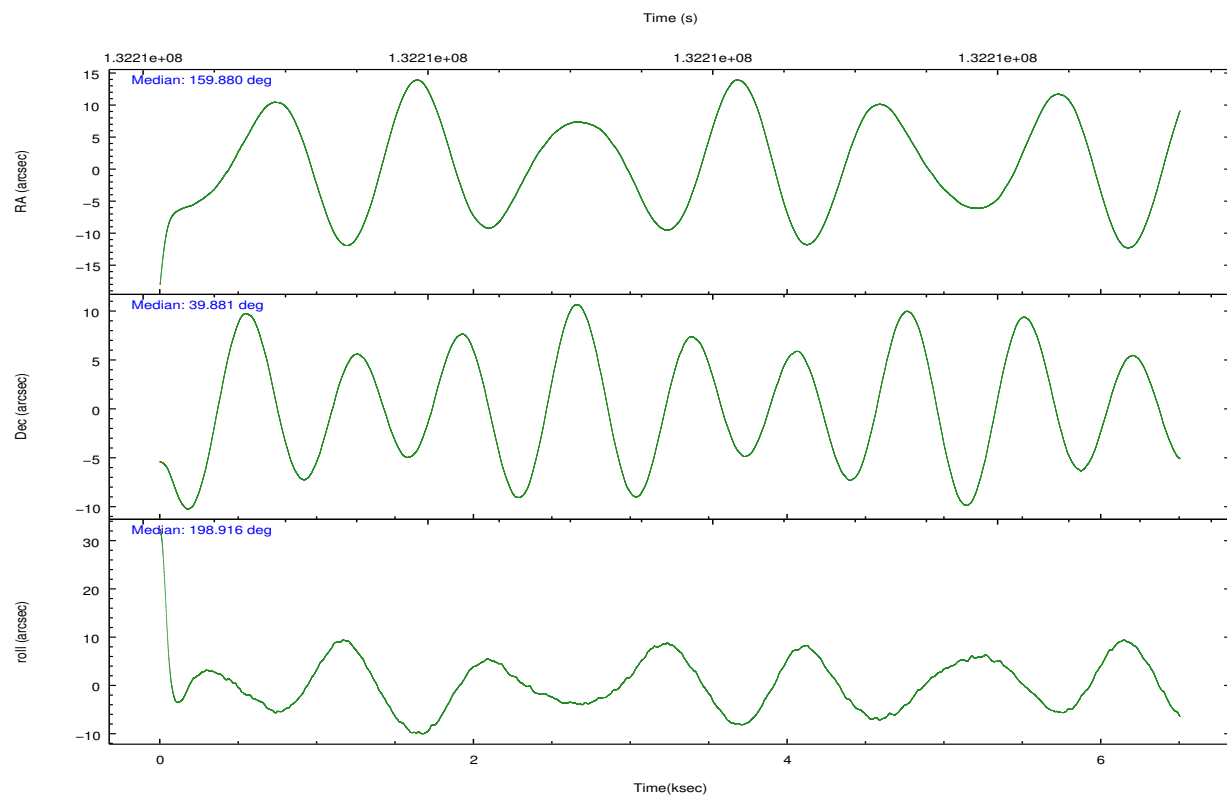


## 2.2 Compared Parameters

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	159.902586	159.87946509194	Subarray requested	NONE	NONE
[deg] Pointing Dec	39.902000	39.88116253922161	Alternating exposures requested	N	N
[deg] Pointing Roll	198.753742	198.9252763292019	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	132208654.184000	132207892.89037			
Observation start date	2002-03-11T04:36:30	2002-03-11T04:24:52			
[s] Observation end time (MET)	132214954.184000	132215369.24068			
Observation end date	2002-03-11T06:21:30	2002-03-11T06:29:29			
Read mode	TIMED	TIMED			

## 2.3 Aspect



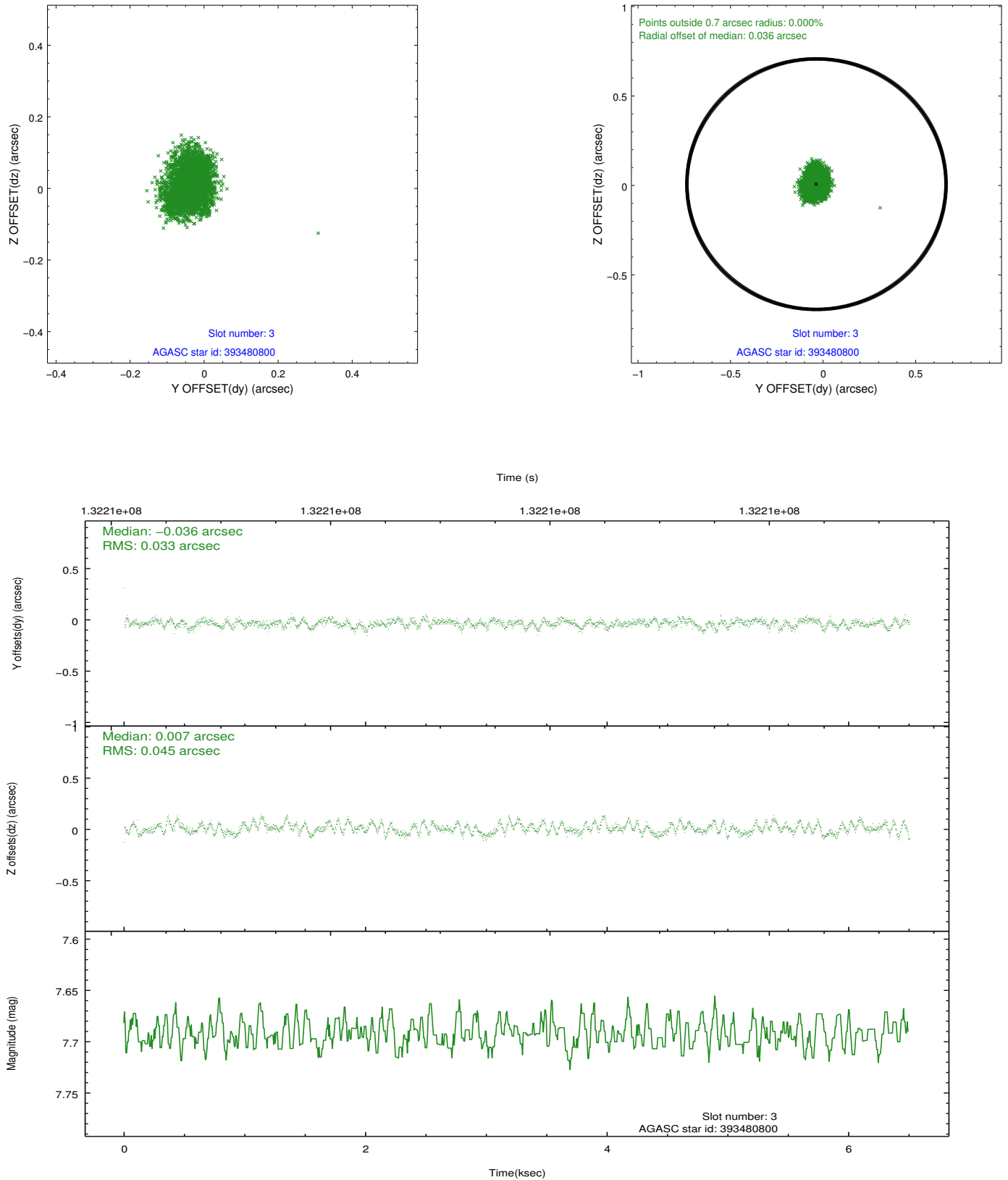


### Slot Statistics

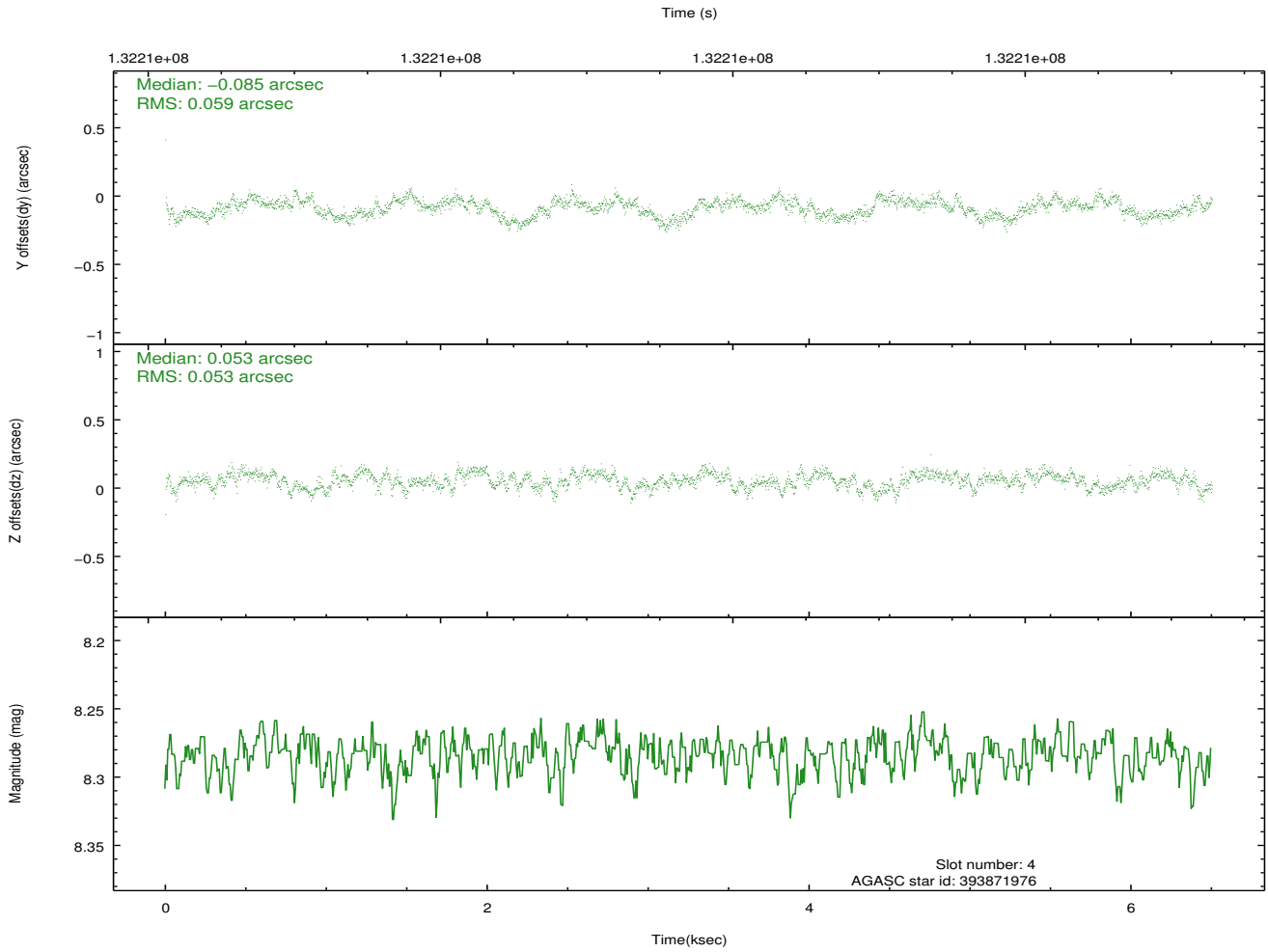
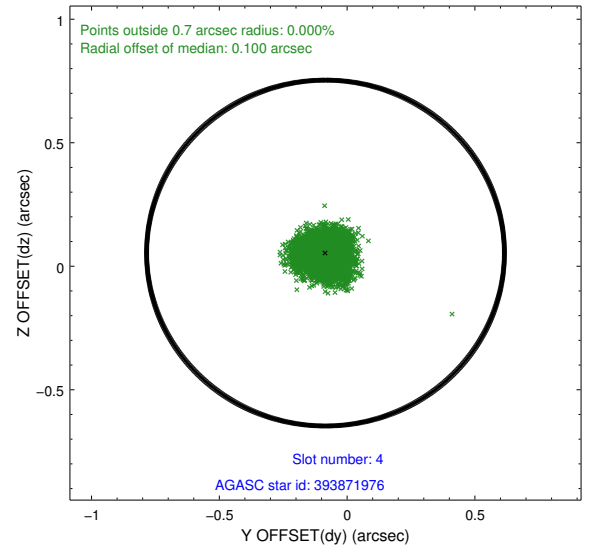
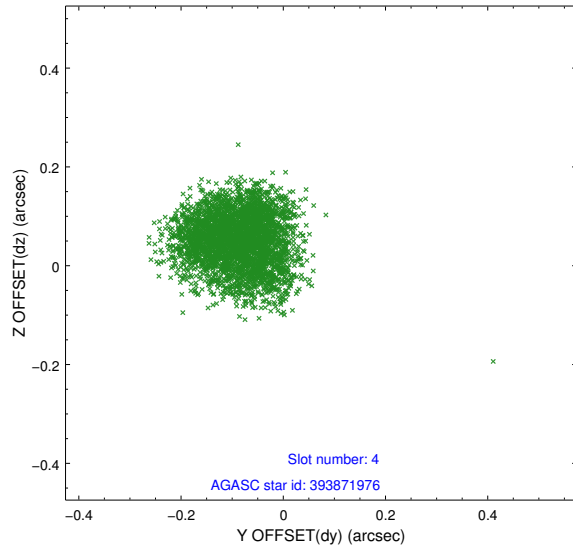
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	1587	-0.035	0.011	0.007	0.011	0.000000	0.000000	-755.42	-1727.34
1	FID	ACIS-S-4	7.20	1587	-0.026	0.014	0.006	0.011	0.000000	0.000000	2157.42	180.28
2	FID	ACIS-S-5	7.24	1587	0.029	-0.017	0.007	0.011	0.000000	0.000000	-1807.08	174.86
3	GUIDE	393480800	7.69	3173	-0.036	0.007	0.060	0.095	159.955558	39.404672	435.92	1742.94
4	GUIDE	393871976	8.28	3173	-0.085	0.053	0.087	0.131	159.531285	40.437247	343.99	-2152.90
5	GUIDE	393878472	8.50	3173	0.167	-0.087	0.077	0.122	159.653339	40.322119	161.95	-1653.53
6	GUIDE	394405296	8.72	3172	0.024	-0.023	0.143	0.206	160.050441	40.278361	-819.79	-1153.22
7	GUIDE	394407680	9.15	3170	-0.063	0.057	0.098	0.158	160.045368	40.603600	-1181.53	-2266.82

## 2.4 Star Slots

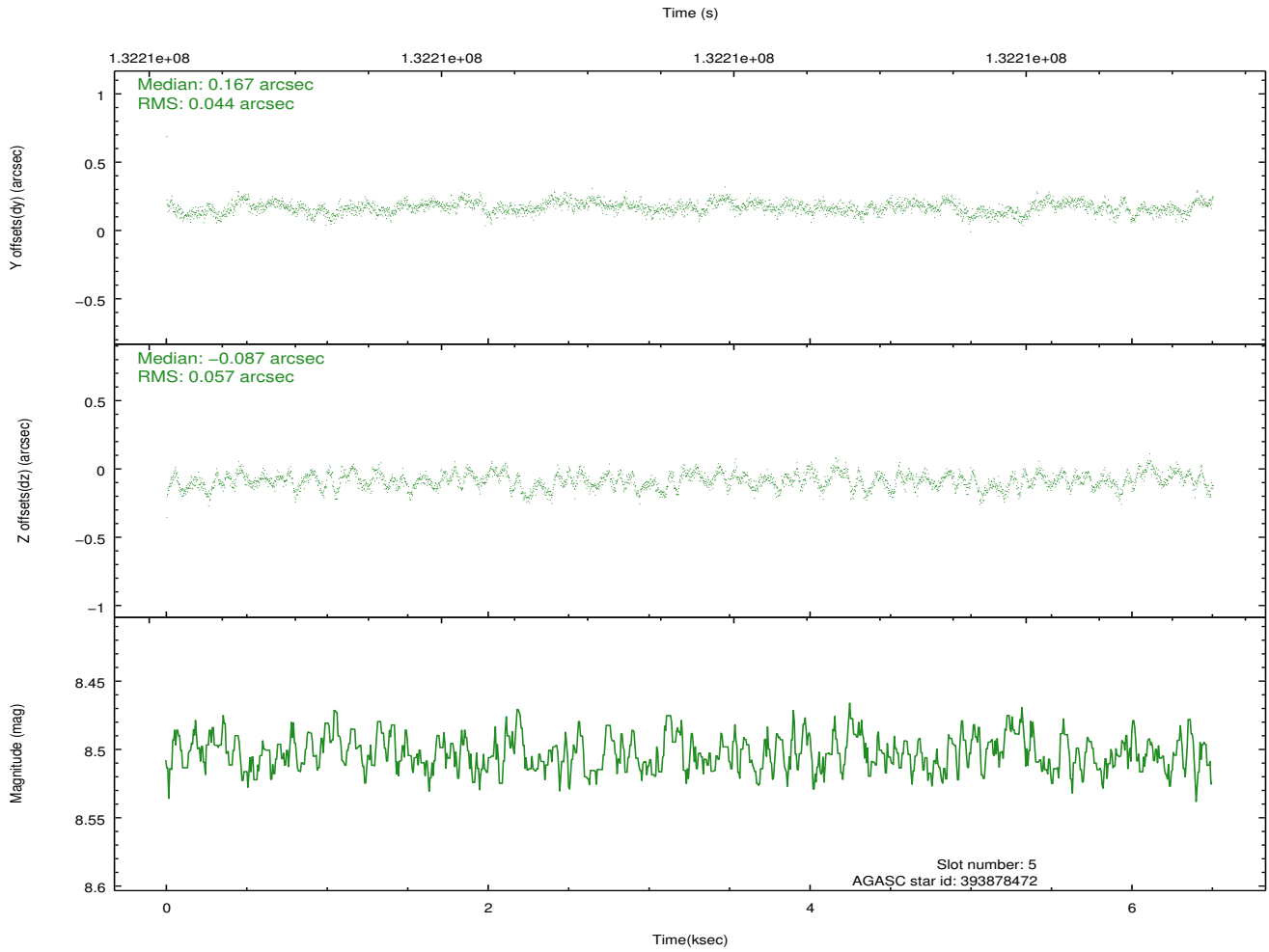
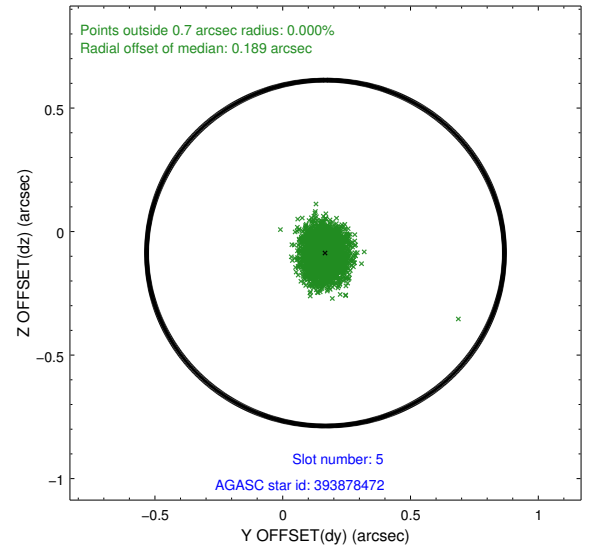
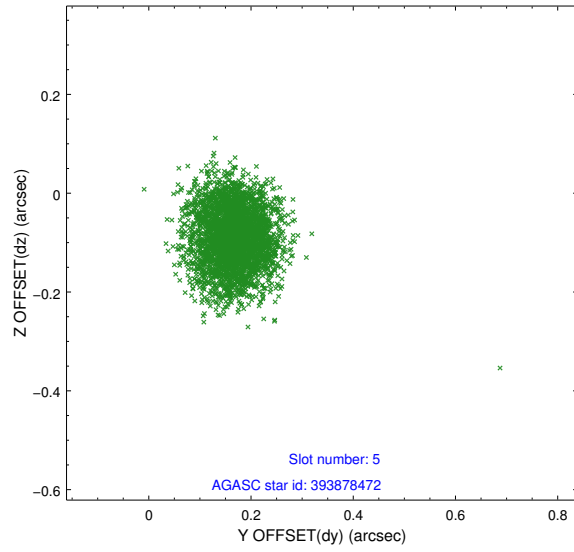
### 2.4.1 Slot 3



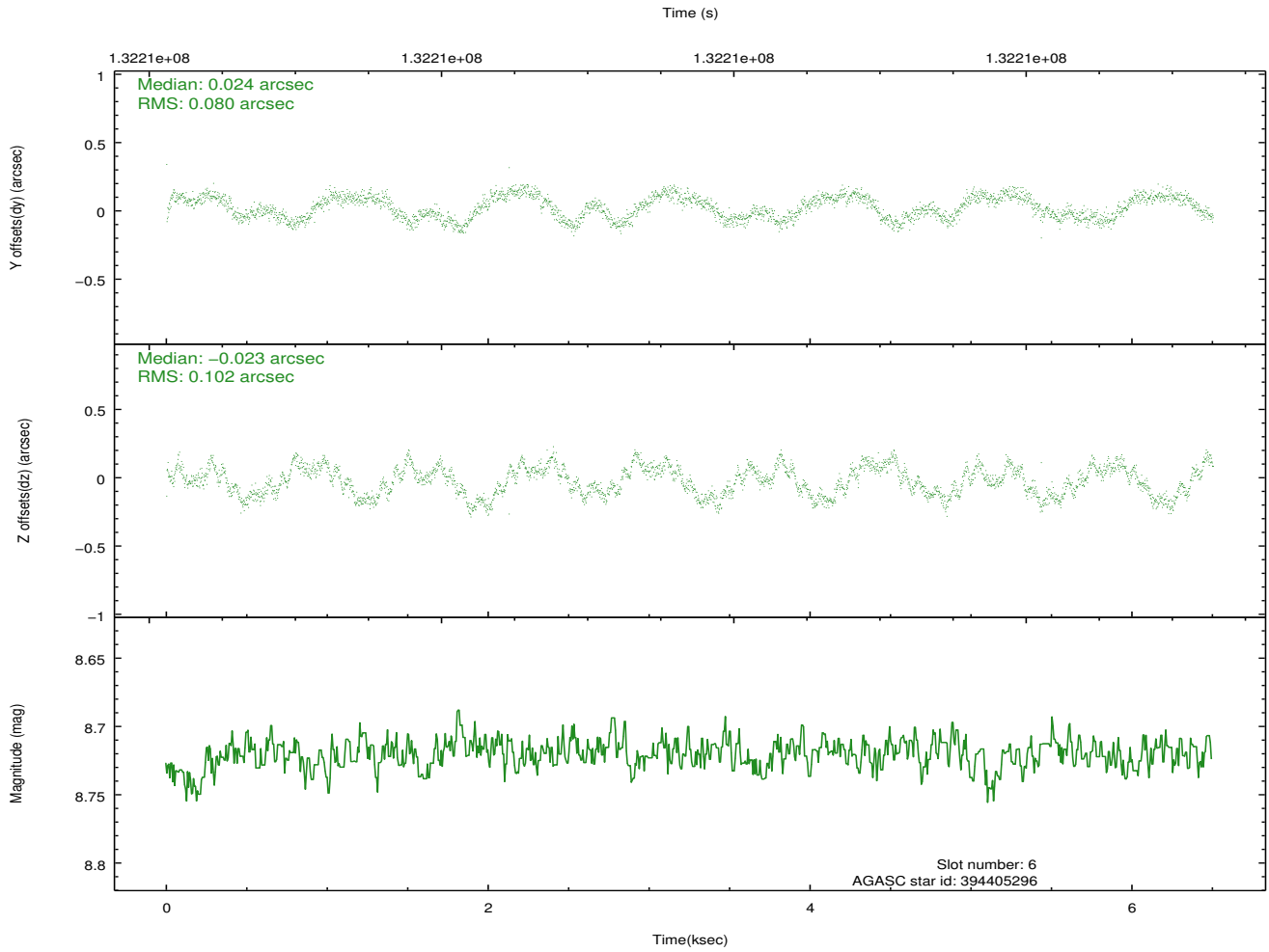
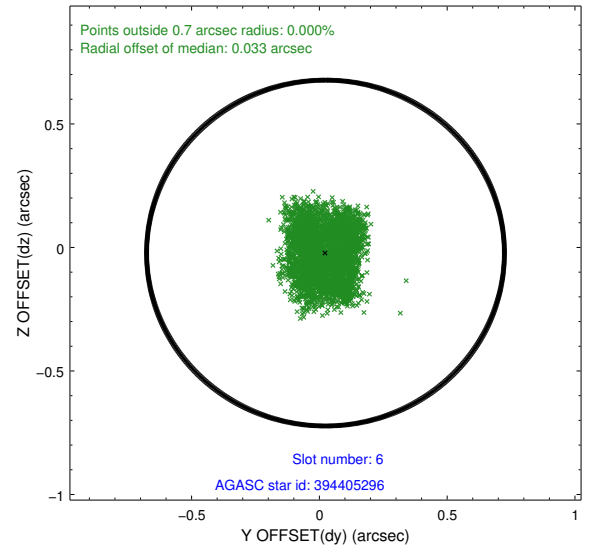
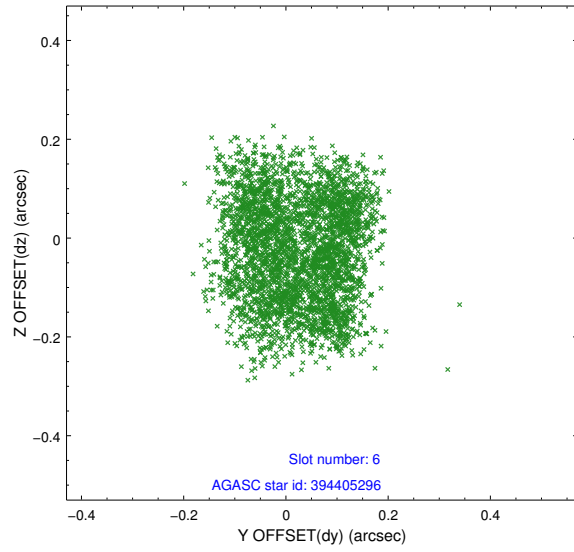
## 2.4.2 Slot 4



### 2.4.3 Slot 5

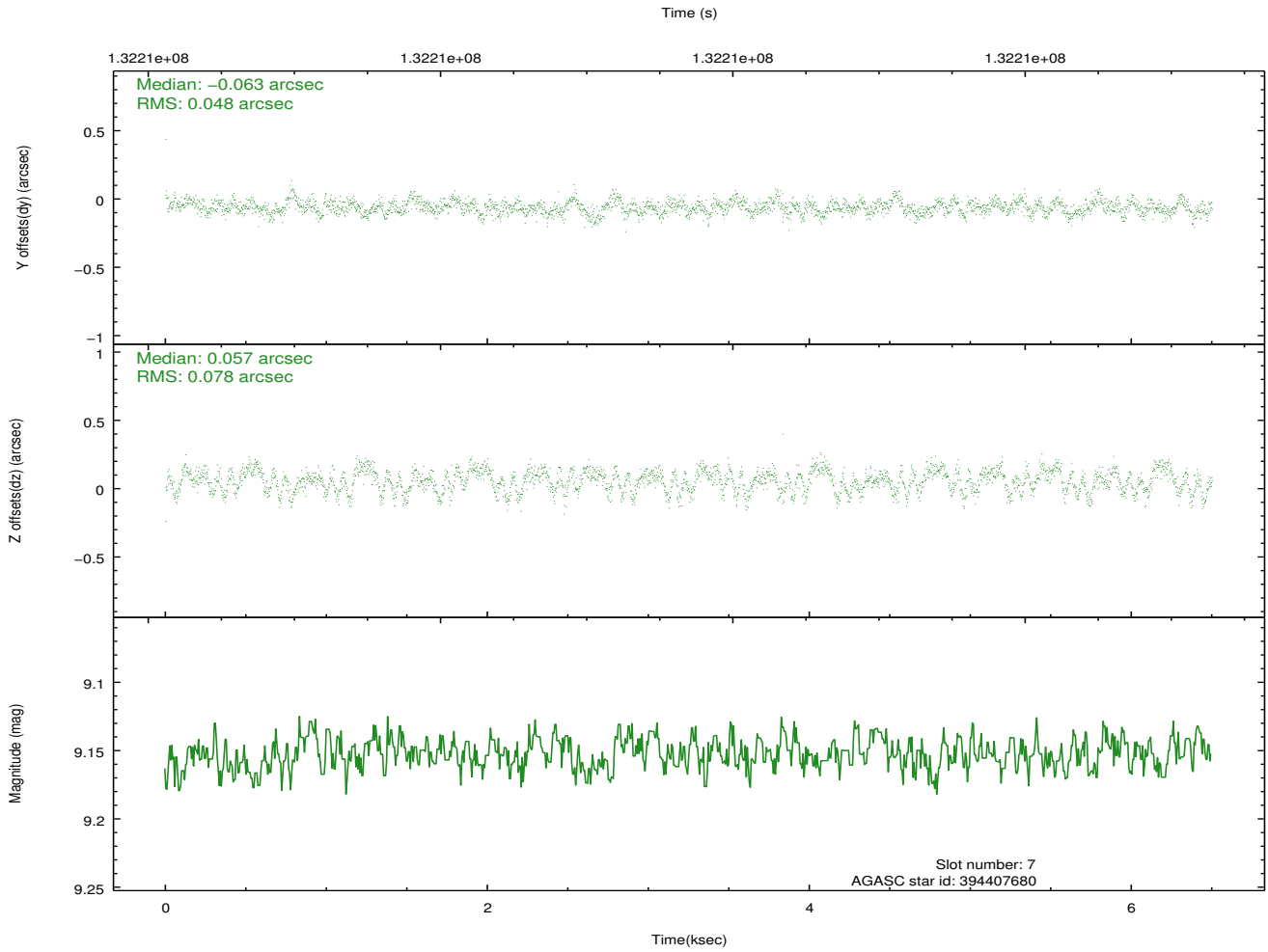
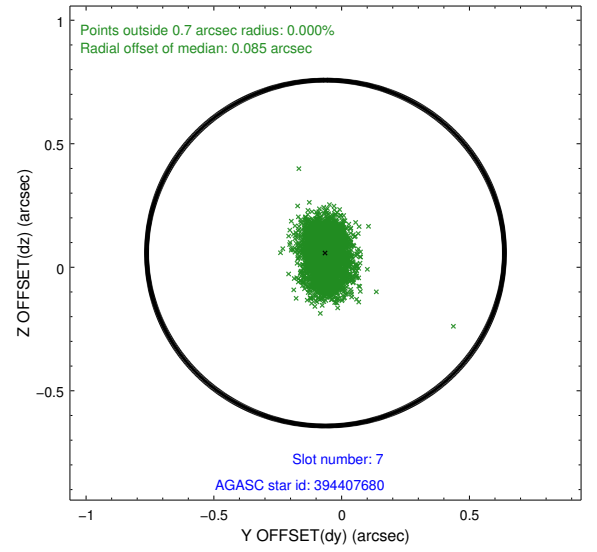
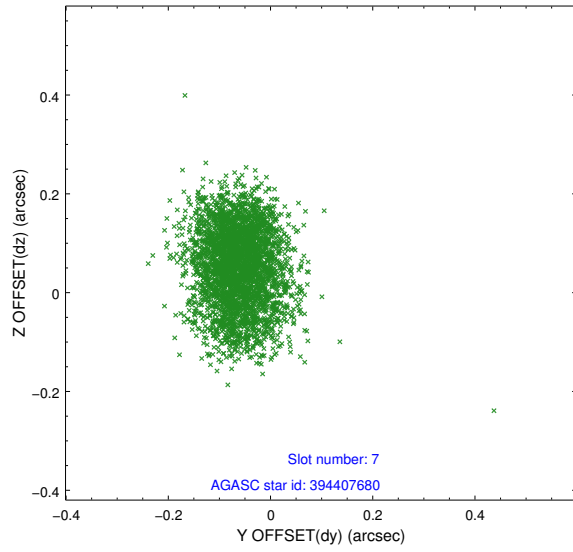


## 2.4.4 Slot 6



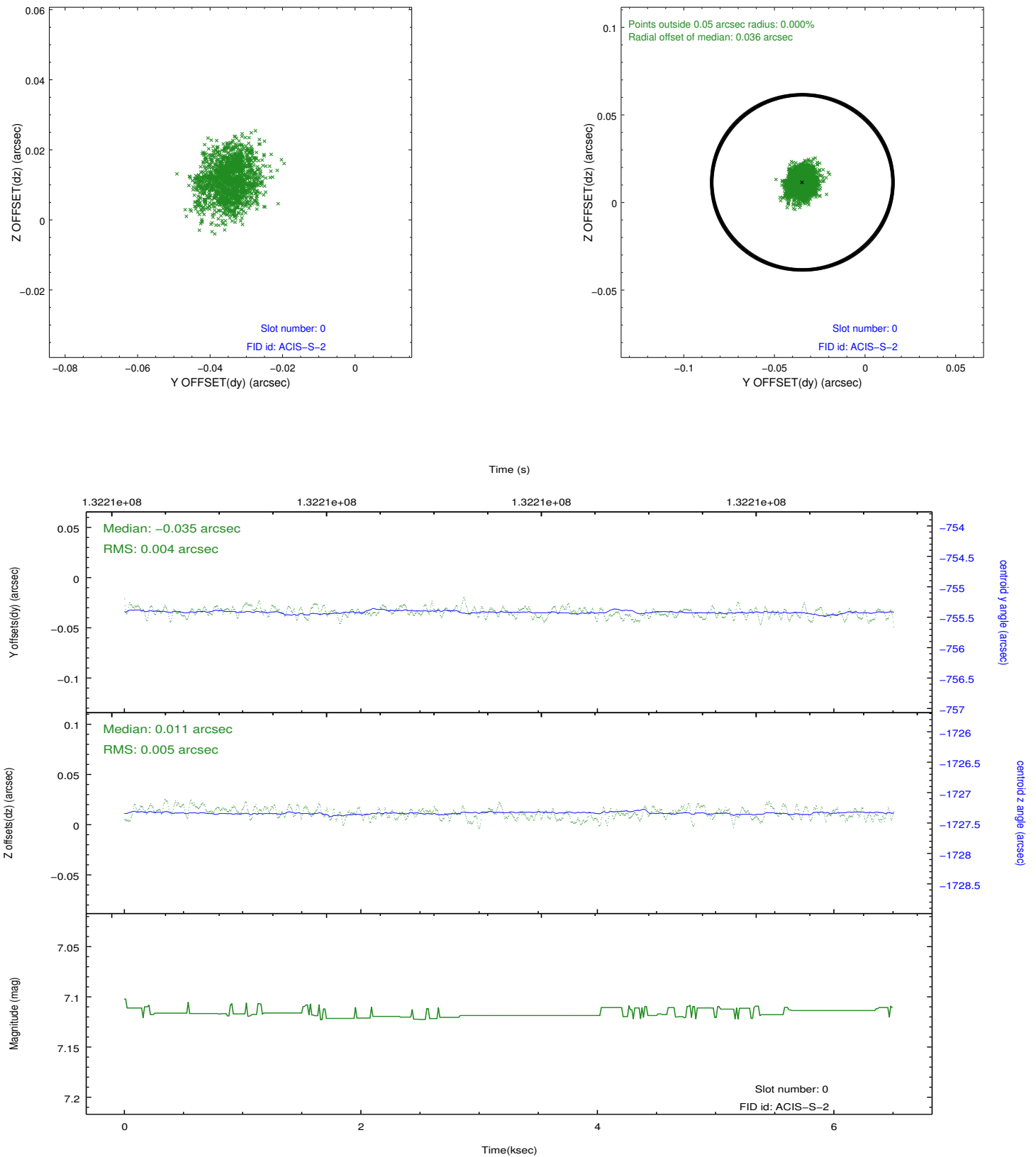


### 2.4.5 Slot 7

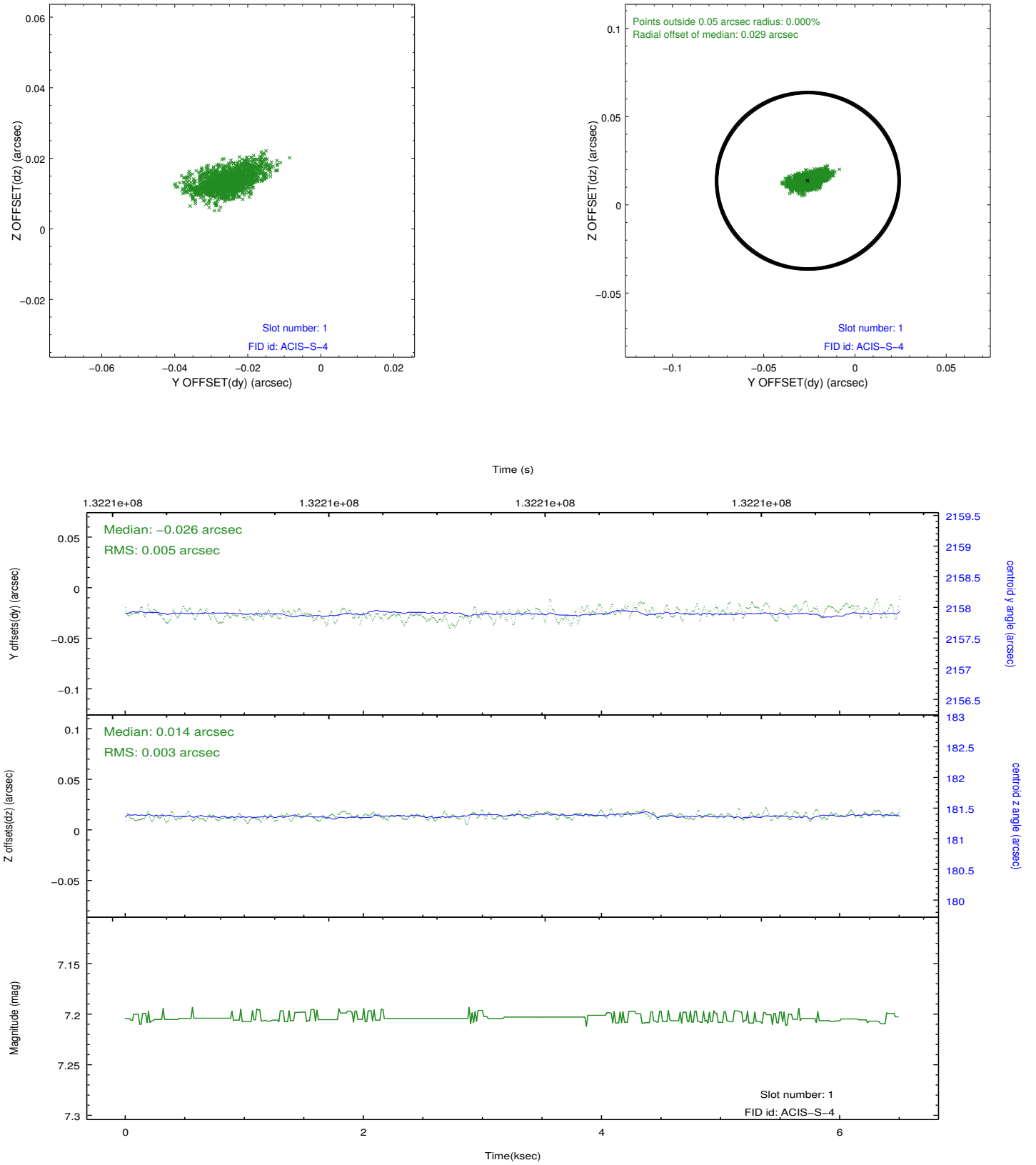


## 2.5 FID Slots

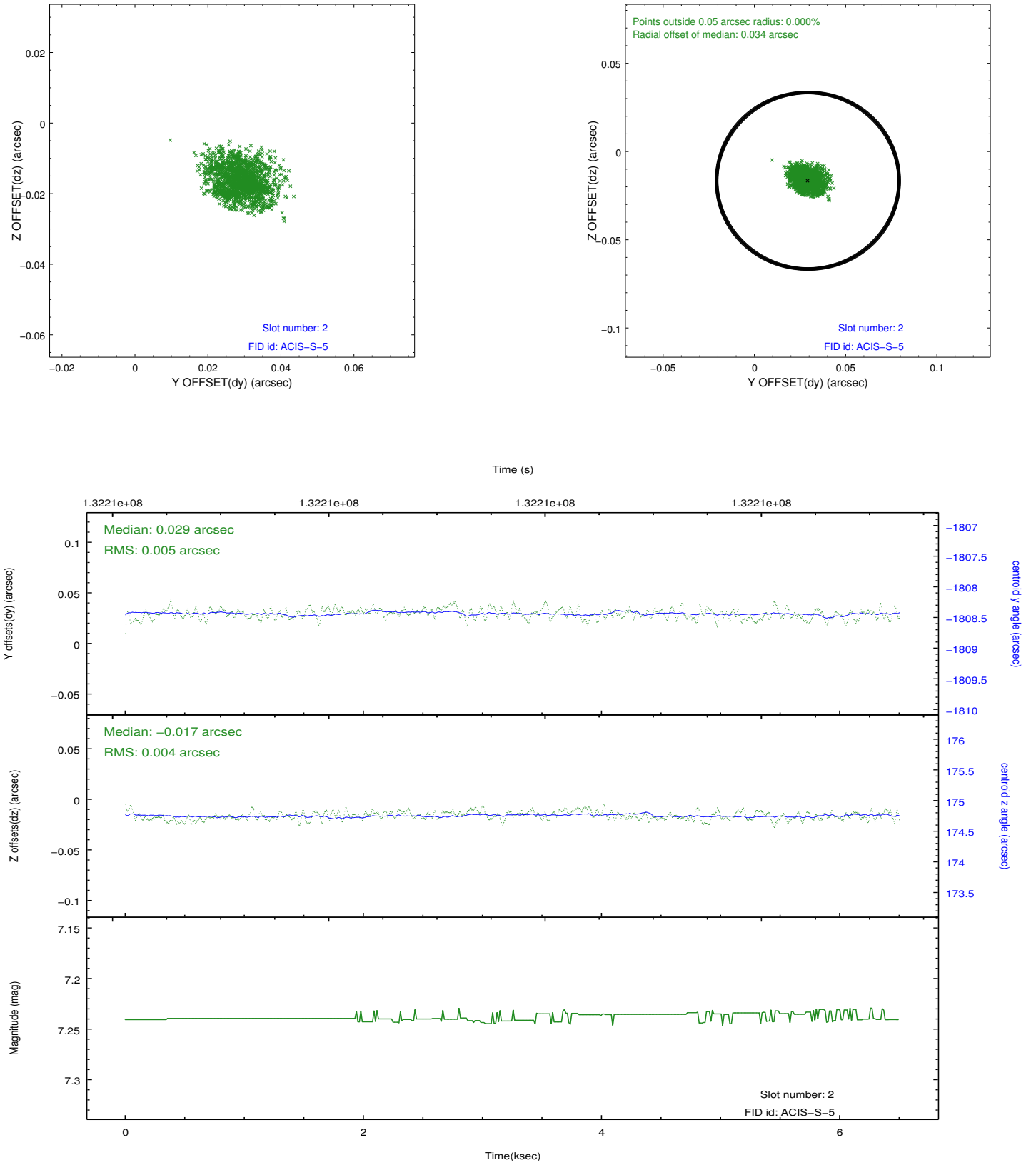
### 2.5.1 Slot 0



## 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)	2012.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.057

### A.2 Comments