

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 84 - L2 Version 5  
Chandra X-Ray Center

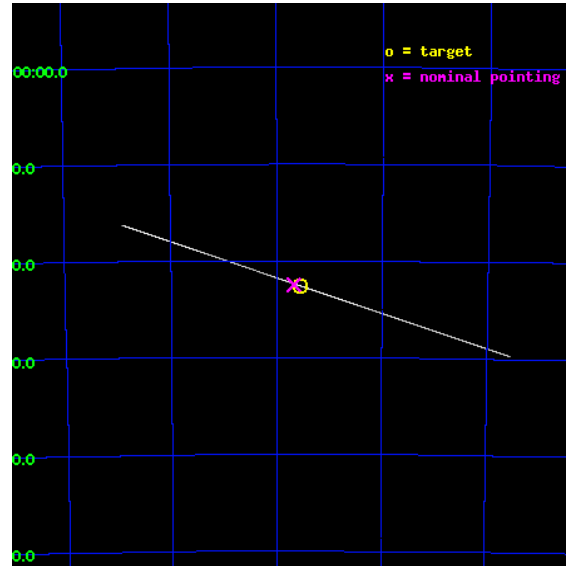
L2 Processing Date : Jan 25 2013

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# 1 Front

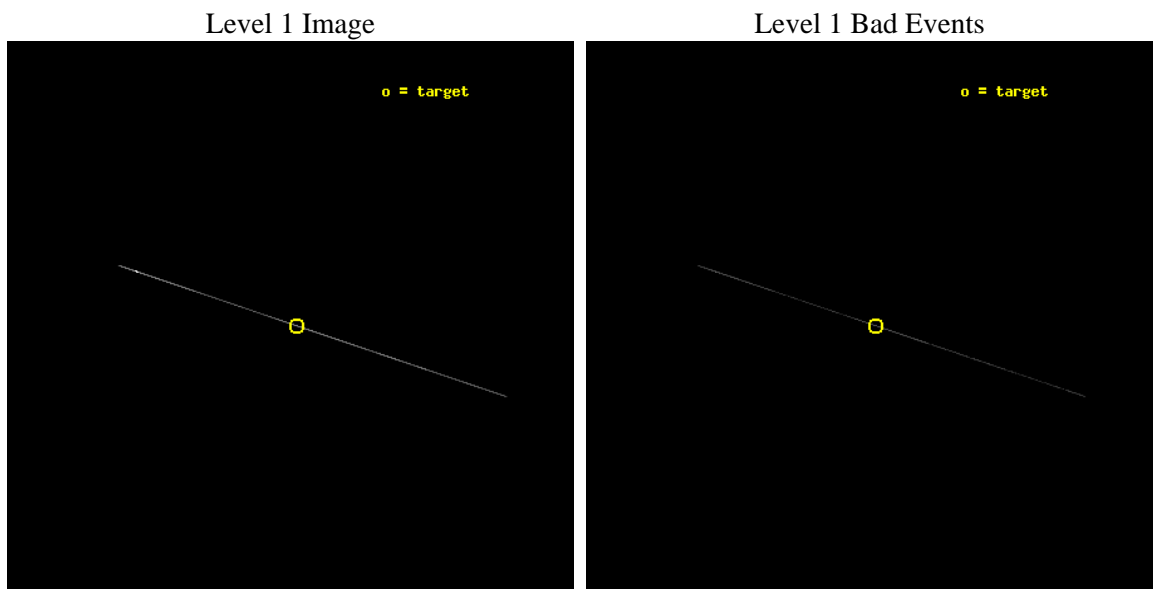
seq_num	300009	Sequence number
obs_id	84	Observation id
title	SUPER-SOFT X-RAY SOURCES	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	CAL 83	Source name
ra_targ	85.889583	Observer's specified target RA [deg]
dec_targ	-68.375833	Observer's specified target Dec [deg]
ra_nom	85.91813468974	Nominal RA [deg]
dec_nom	-68.374527323344	Nominal Dec [deg]
roll_nom	18.453730419178	Nominal Roll [deg]
revision	5	Processing version of data
ontime	2174.25	Sum of GTIs [s]
livetime	2165.7568359375	Livetime [s]
ontime5	2174.25	Sum of GTIs [s]
ontime6	2174.25	Sum of GTIs [s]
ontime7	2174.25	Sum of GTIs [s]
ontime8	2174.25	Sum of GTIs [s]
ontime9	2174.25	Sum of GTIs [s]
l2events	20987	Number of level 2 events



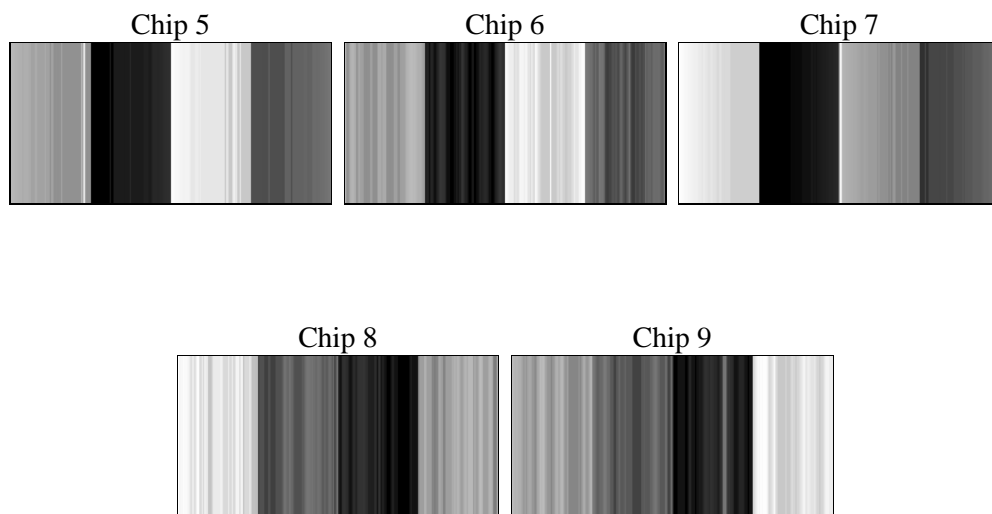
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	2174.25	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime5	2174.25	Sum of GTIs [s]
date	2013-01-25T22:15:39	Date and time of file creation	ontime6	2174.25	Sum of GTIs [s]
revision	6	Processing version of data	ontime7	2174.25	Sum of GTIs [s]
			ontime8	2174.25	Sum of GTIs [s]
			ontime9	2174.25	Sum of GTIs [s]
			l1events	72527	Number of level 1 events

### 2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	52817	2658	8228	6027	2797
rejected events	1078	417	1103	566	420
rejected %	2%	15%	13%	9%	15%

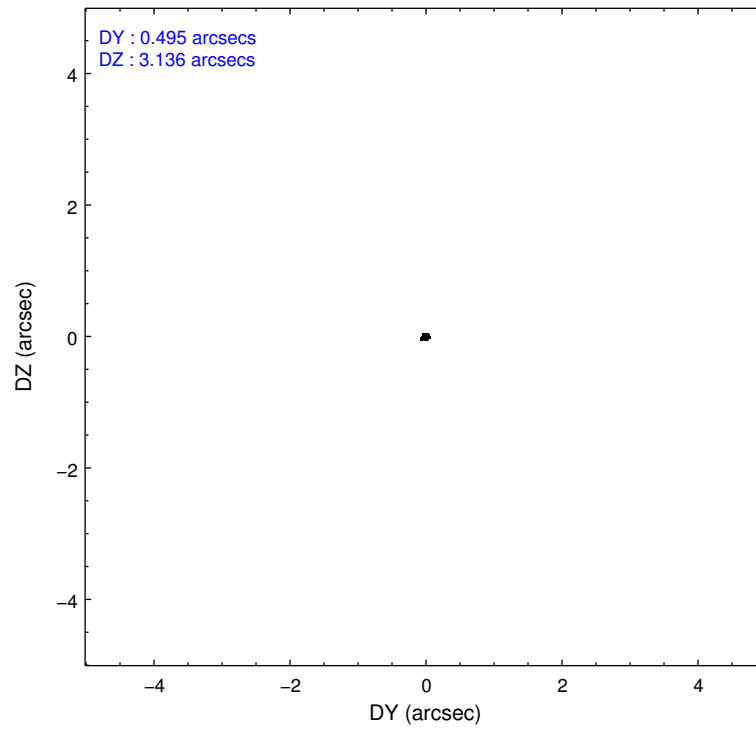
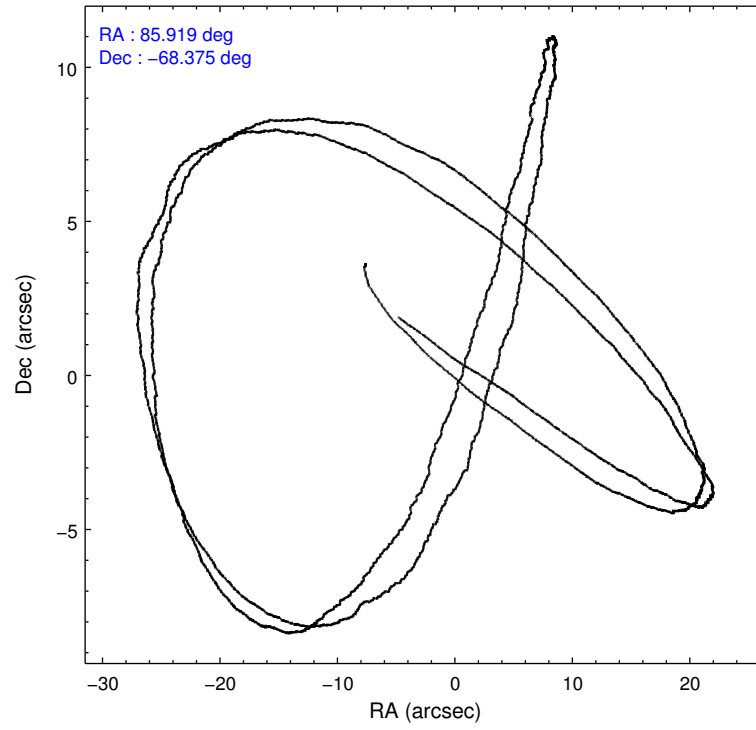
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	31716	268	992	1321	328
	60%	10%	12%	21%	11%
grade 1 events	36	10	17	26	11
	0%	0%	0%	0%	0%
grade 2 events	14317	760	1751	1481	761
	27%	28%	21%	24%	27%
grade 3 events	528	426	607	835	414
	0%	16%	7%	13%	14%
grade 4 events	482	379	588	738	466
	0%	14%	7%	12%	16%
grade 5 events	970	405	1071	532	407
	1%	15%	13%	8%	14%
grade 6 events	4768	410	3202	1094	410
	9%	15%	38%	18%	14%
grade 7 events	0	0	0	0	0
	0%	0%	0%	0%	0%

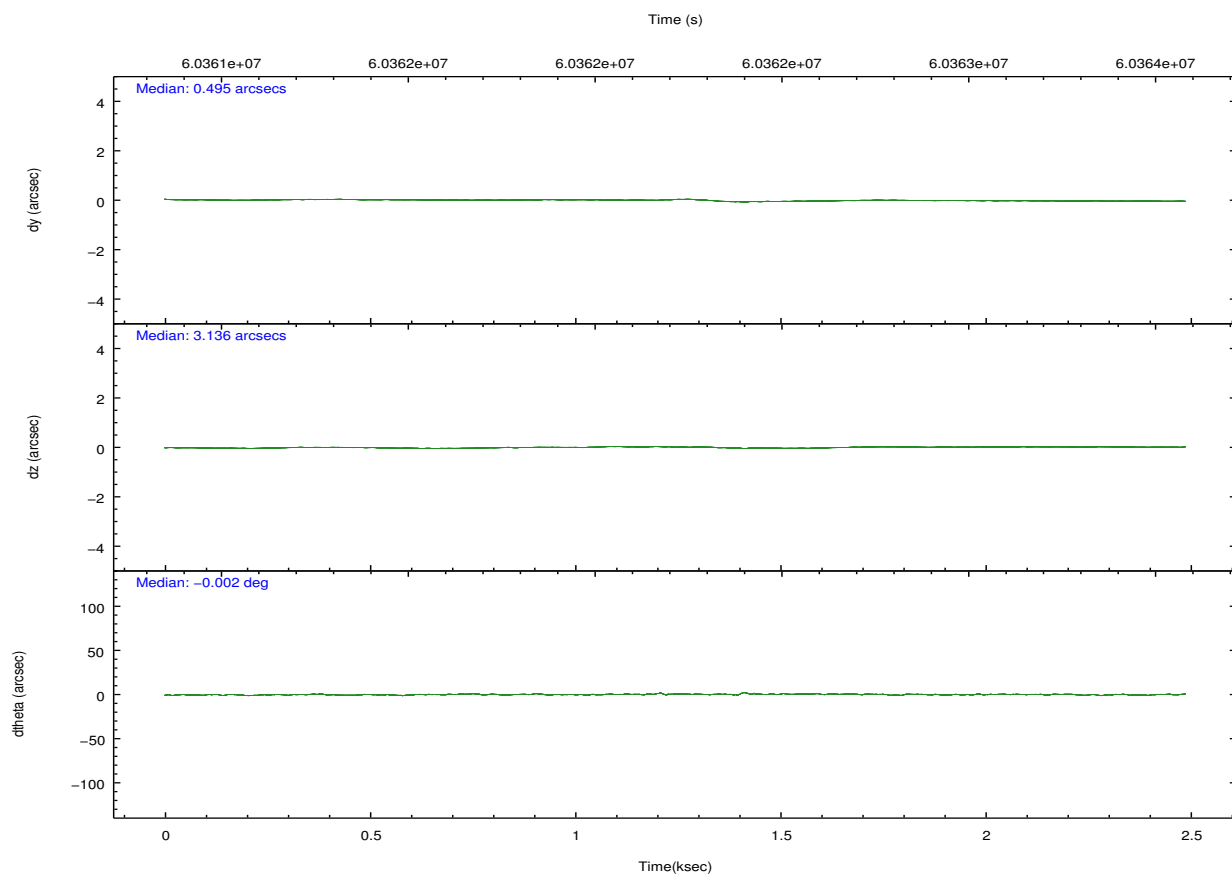
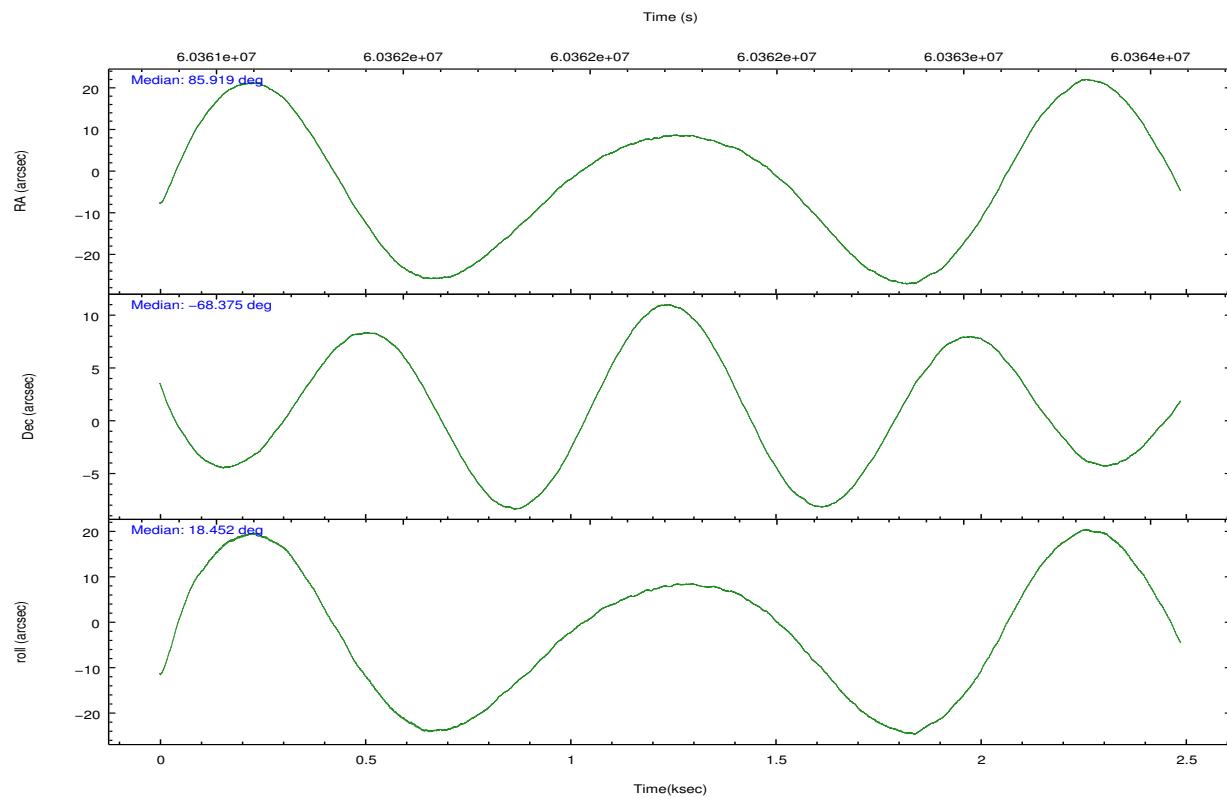
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-56789	ACIS-56789
Grating	NONE	NONE
Data mode	CC33_FAINT	CC33_FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	85.867409	85.91813468973979
[deg] Pointing Dec	-68.395004	-68.37452732334395
[deg] Pointing Roll	18.249953	18.45373041917824
[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)	60361457.184000	60360690.362217
Observation start date	1999-11-30T15:03:13	1999-11-30T14:51:30
[s] Observation end time (MET)	60363457.184000	60364128.724841
Observation end date	1999-11-30T15:36:33	1999-11-30T15:48:48
Read mode	CONTINUOUS	CONTINUOUS

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	0

## 2.3 Aspect



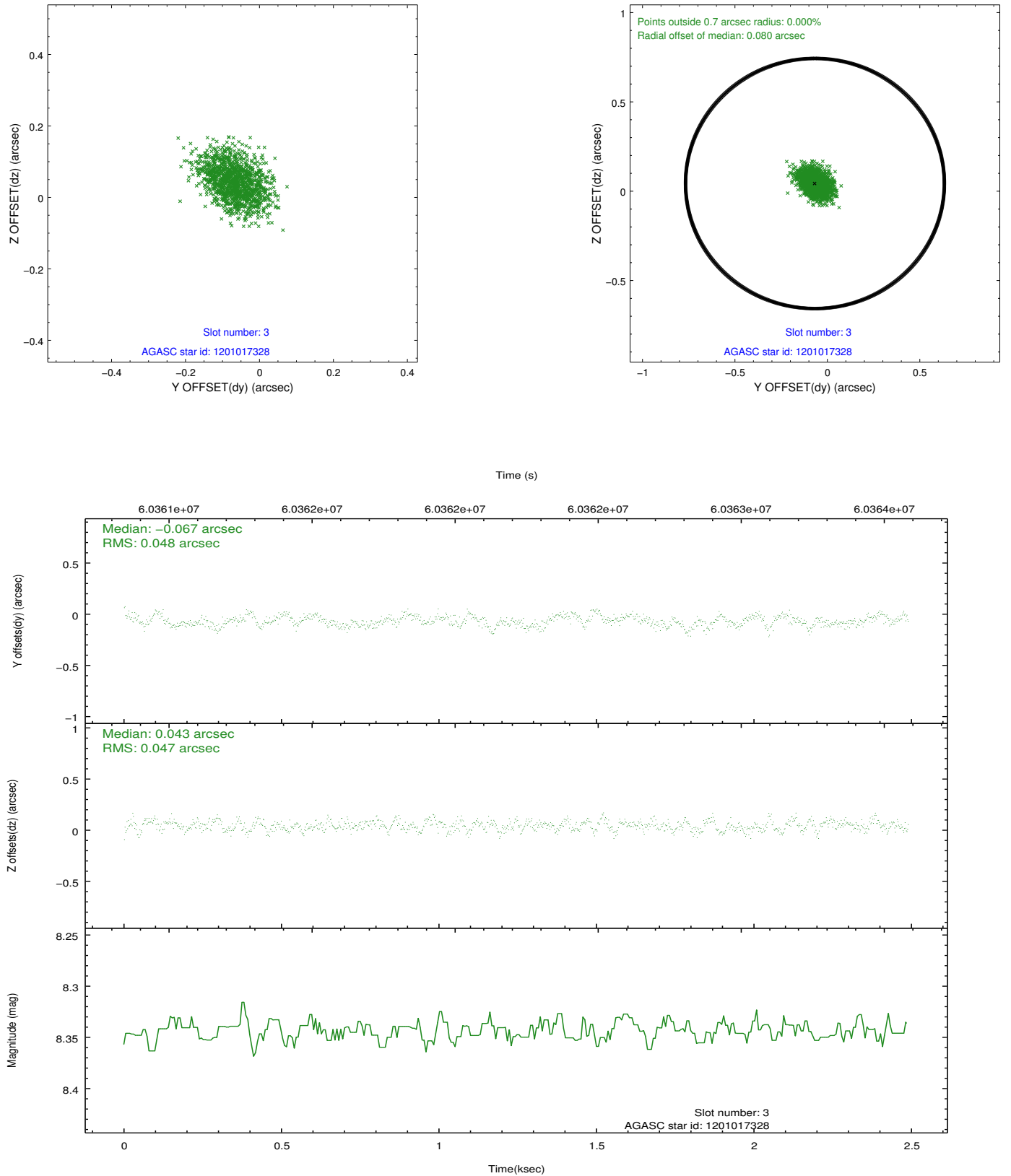


### Slot Statistics

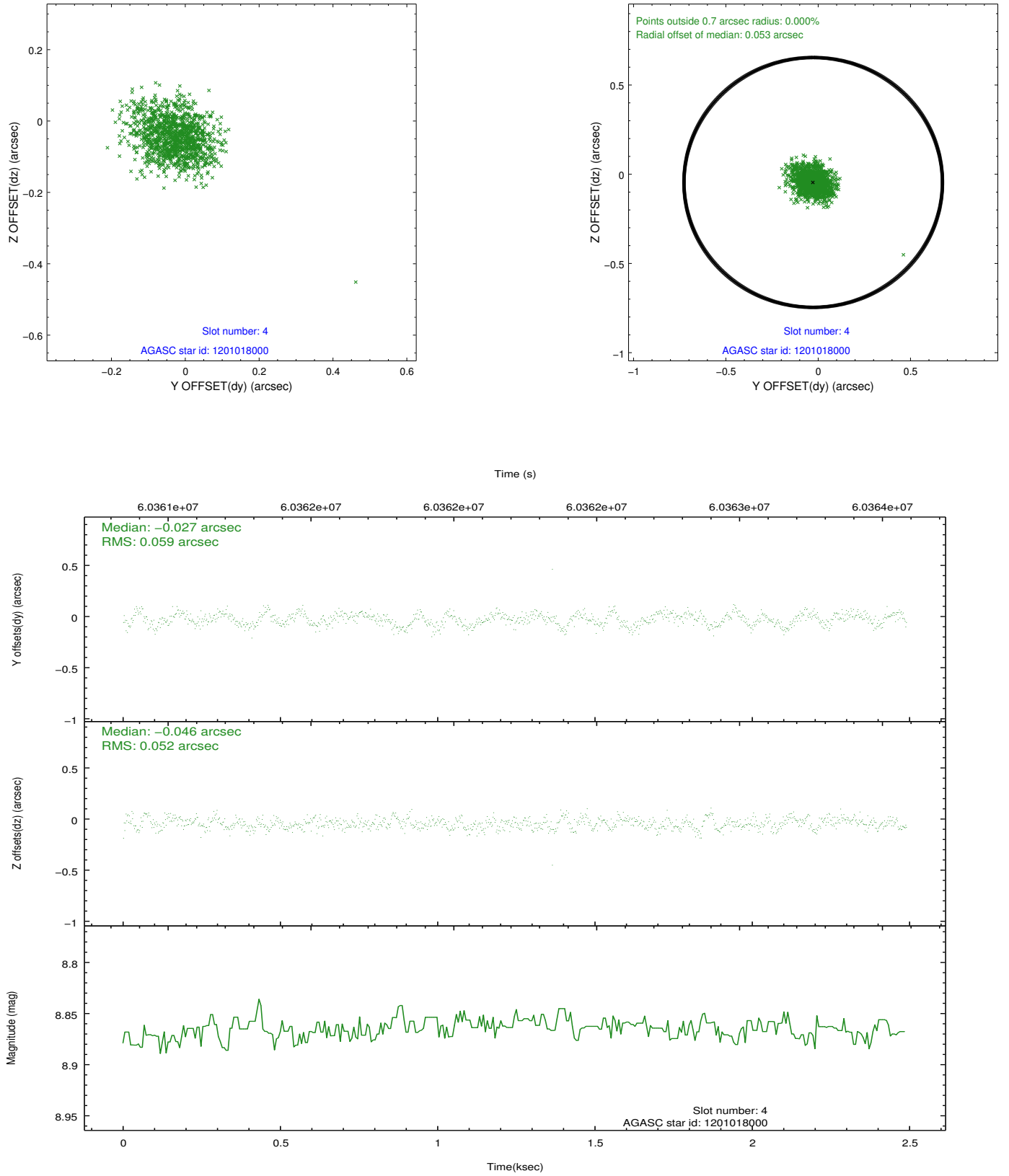
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1215	0.001	-0.017	0.007	0.010	0.000000	0.000000	-753.12	-1724.18
1	FID	ACIS-S-4	7.21	1214	0.040	0.004	0.005	0.010	0.000000	0.000000	2159.71	182.97
2	FID	ACIS-S-5	7.24	1214	-0.073	0.021	0.006	0.011	0.000000	0.000000	-1804.39	178.18
3	GUIDE	1201017328	8.34	1213	-0.067	0.043	0.072	0.115	87.666995	-68.431296	2208.27	-902.62
4	GUIDE	1201018000	8.86	1213	-0.027	-0.046	0.082	0.133	86.429836	-67.864420	1321.98	1571.19
5	GUIDE	1201017288	9.74	1212	0.054	0.025	0.100	0.170	84.358094	-68.728983	-2256.17	-546.26
6	GUIDE	1201018384	9.07	1214	0.022	-0.019	0.073	0.120	85.801362	-68.593260	-309.15	-651.07
7	GUIDE	1201019928	9.53	1213	0.018	-0.003	0.088	0.147	85.136920	-68.248318	-763.62	800.74

## 2.4 Star Slots

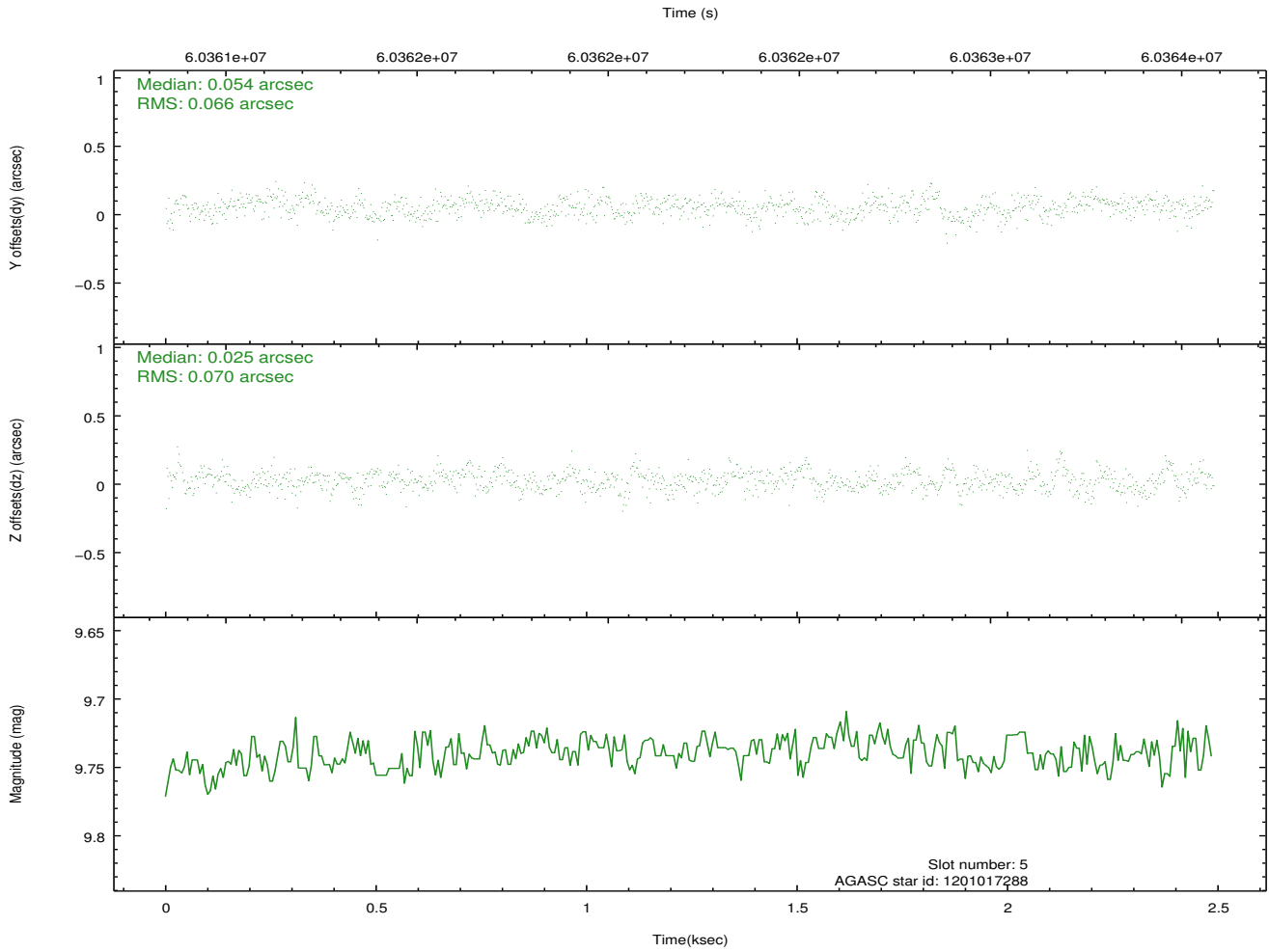
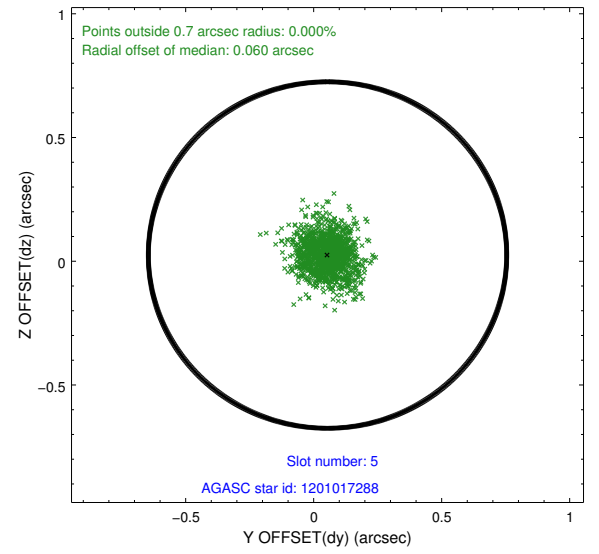
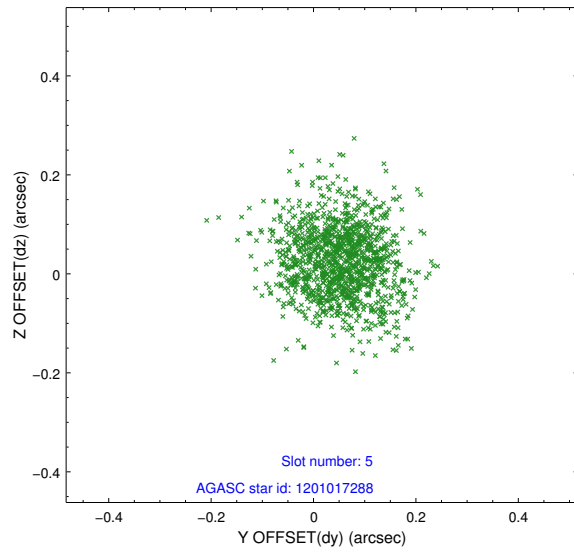
### 2.4.1 Slot 3



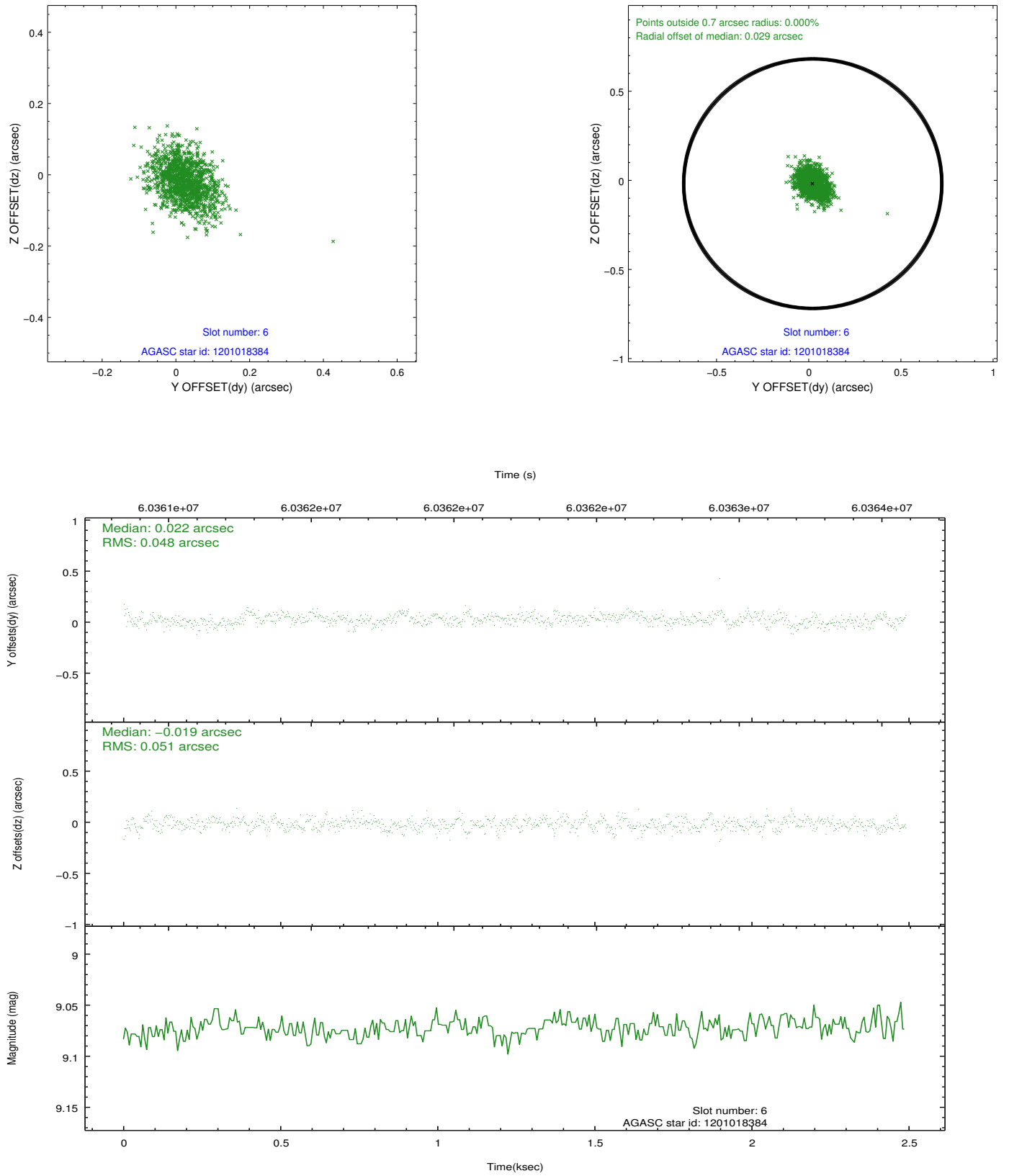
## 2.4.2 Slot 4



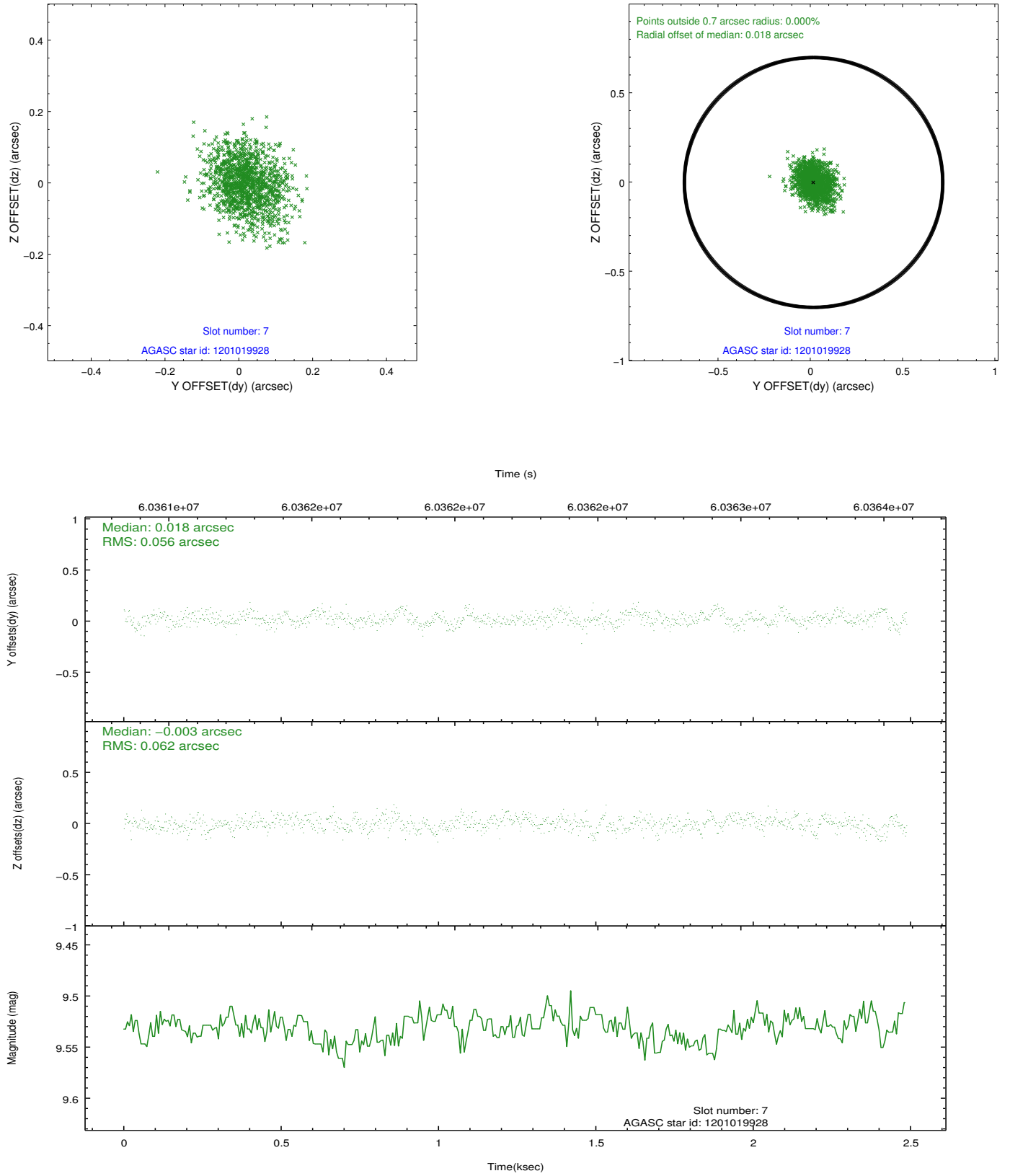
### 2.4.3 Slot 5



## 2.4.4 Slot 6

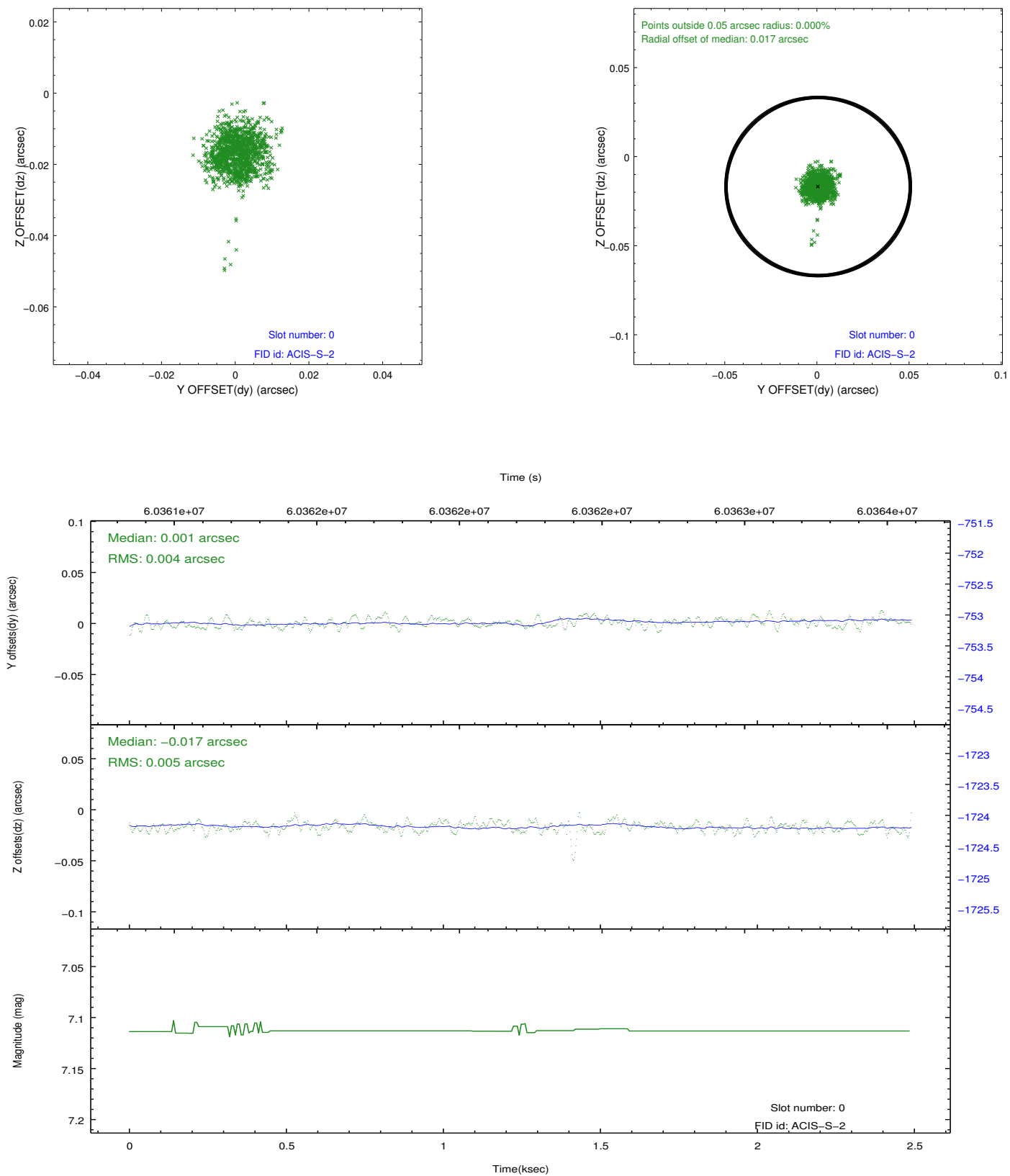


## 2.4.5 Slot 7

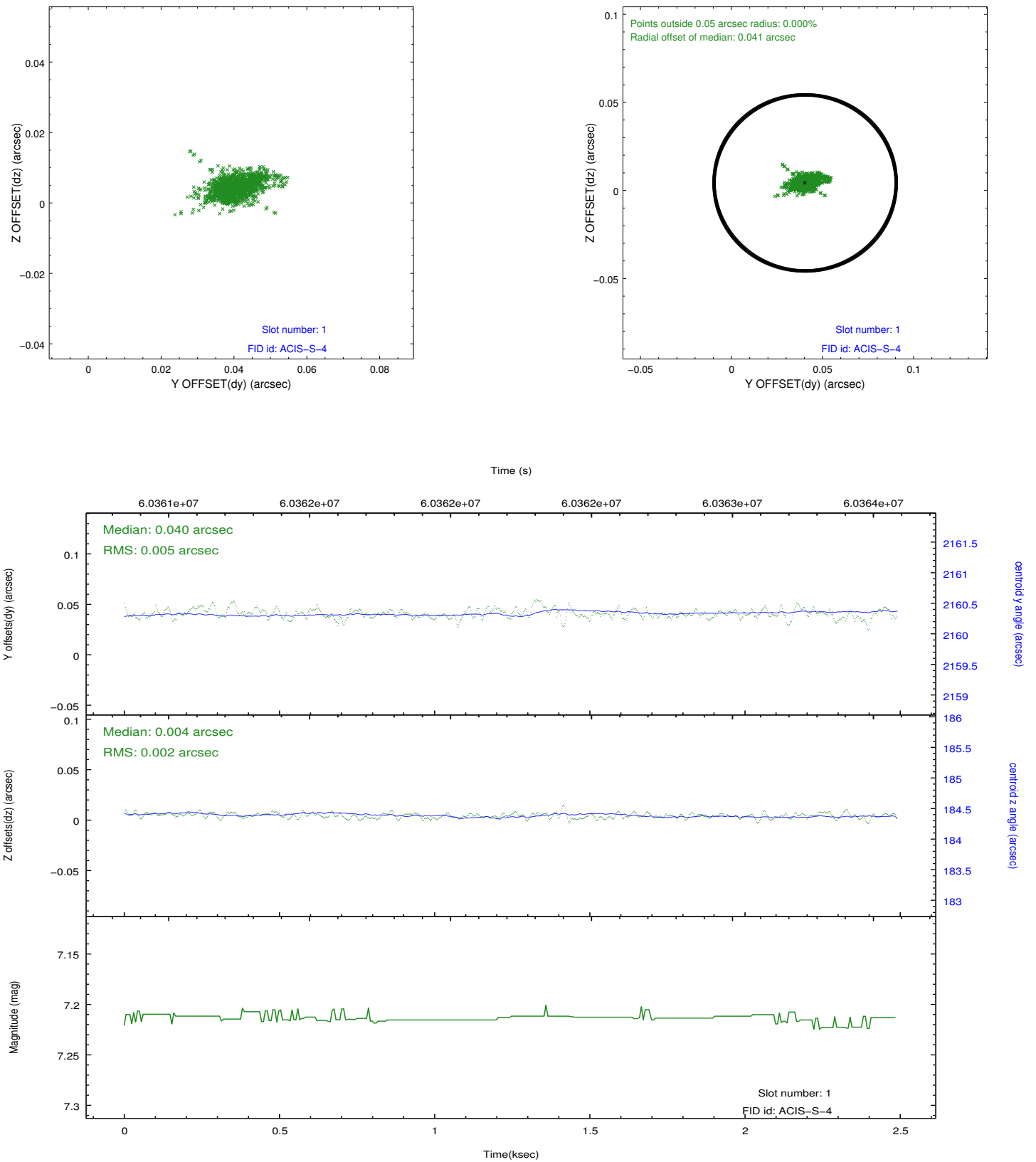


## 2.5 FID Slots

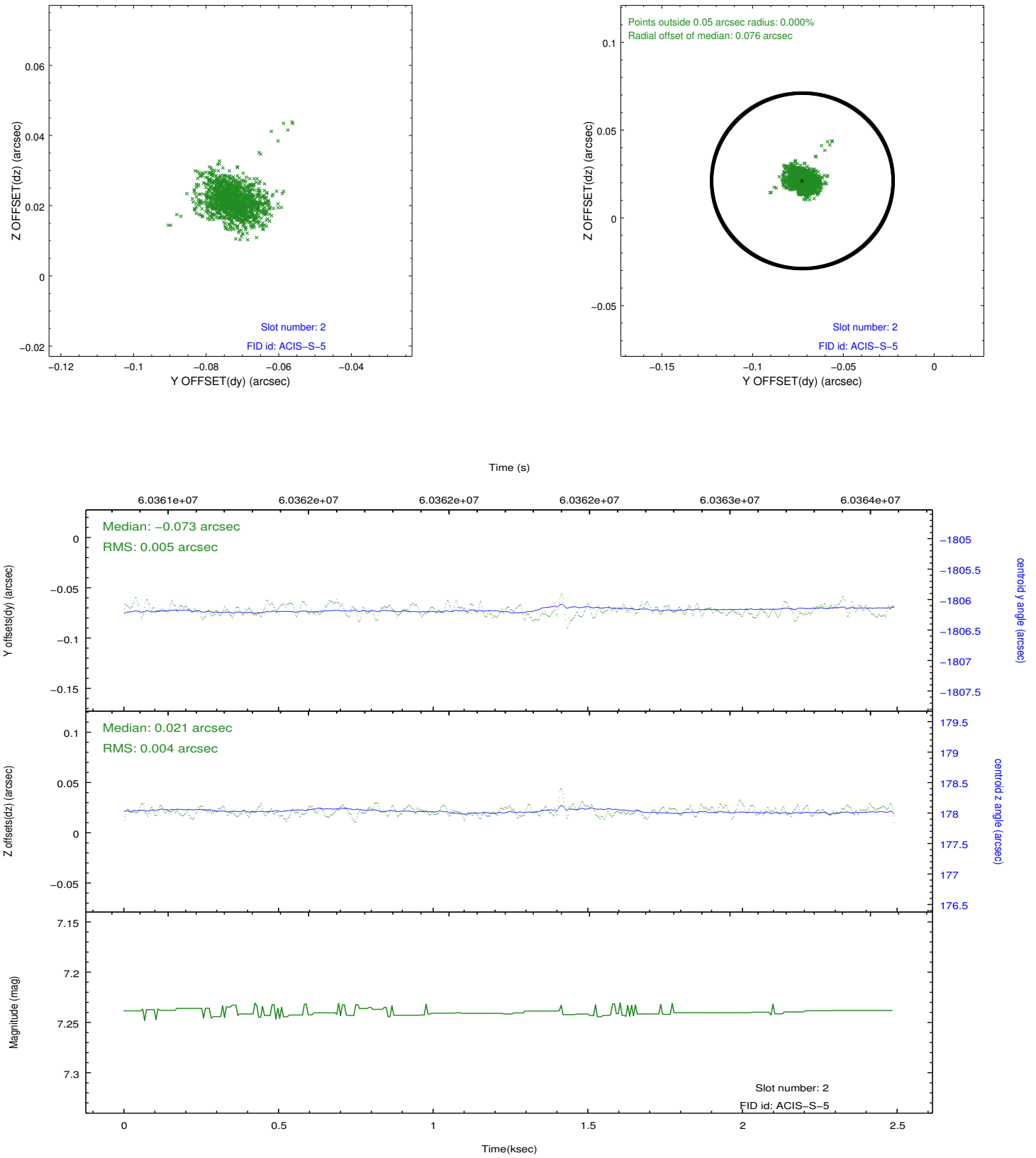
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.077

## A.2 Comments

This observation was taken at a focal plane temperature of about -110 C.  
There is no CTI calibration for this temperature so none was applied.

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Source is not apparent.

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Charge time:

Charge time for this ObsId remains at previous value of 2.077 ks.