

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 13925 - L2 Version 1  
Chandra X-Ray Center

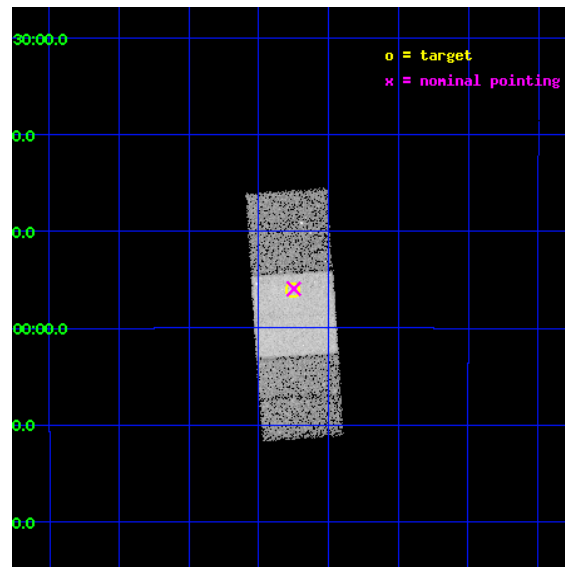
L2 Processing Date : Aug 30 2012

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# 1 Front

seq_num	702649	Sequence number
obs_id	13925	Observation id
title	Dawn of a quasar: the exceptional variability of IRAS 00397-1312	P
observer	Dr Guido Risaliti	Principal investigator
object	IRAS 00397-1312	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.564583	Observer's specified target RA [deg]
dec_targ	-12.934167	Observer's specified target Dec [deg]
ra_nom	10.562070958517	Nominal RA [deg]
dec_nom	-12.932418002658	Nominal Dec [deg]
roll_nom	86.086639737031	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15080.353749096	Sum of GTIs [s]
livetime	14883.31782537	Livetime [s]
ontime6	15080.312709093	Sum of GTIs [s]
ontime7	15080.353749096	Sum of GTIs [s]
ontime8	15080.27166909	Sum of GTIs [s]
l2events	62951	Number of level 2 events

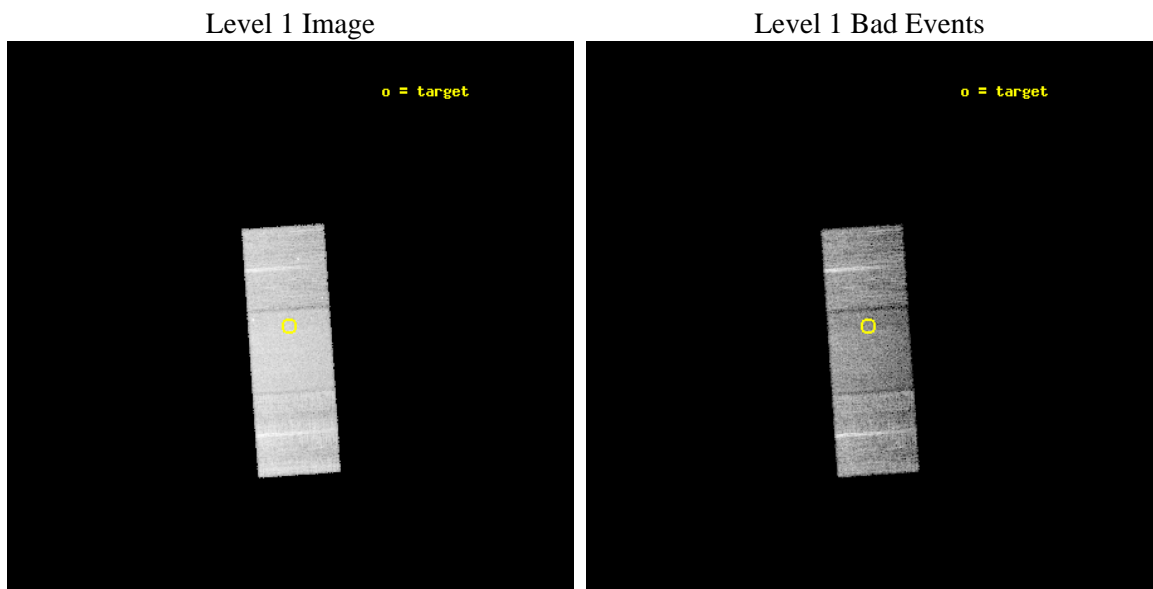




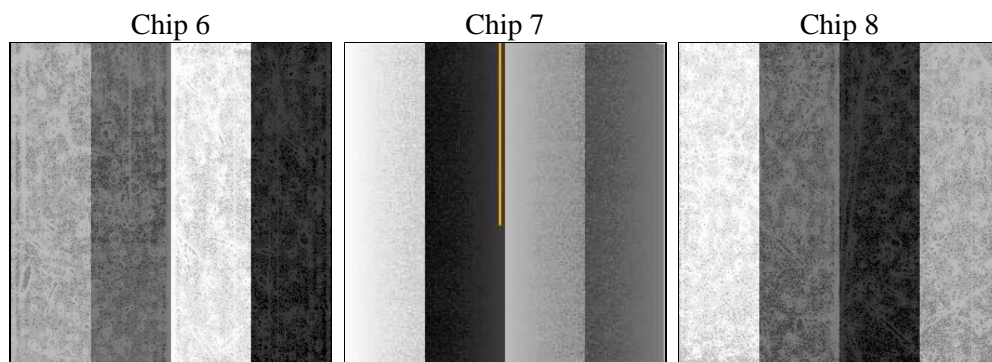
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	15080.353749096	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime6	15080.312709093	Sum of GTIs [s]
date	2012-08-30T18:28:10	Date and time of file creation	ontime7	15080.353749096	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	15080.27166909	Sum of GTIs [s]
			l1events	289358	Number of level 1 events

### 2.1.4 Events

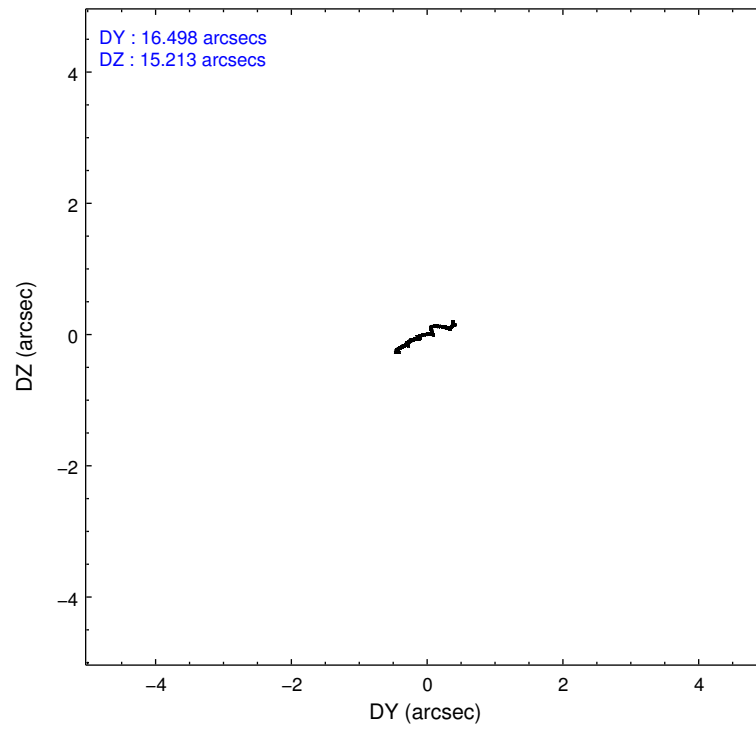
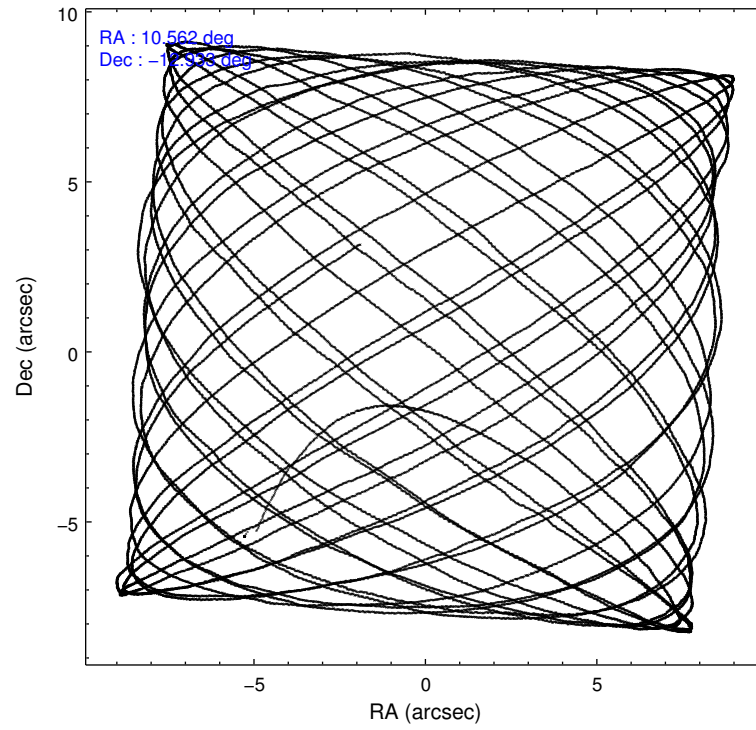
	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
level 1 events	77981	104756	106621
rejected events	68296	58281	78098
rejected %	87%	55%	73%

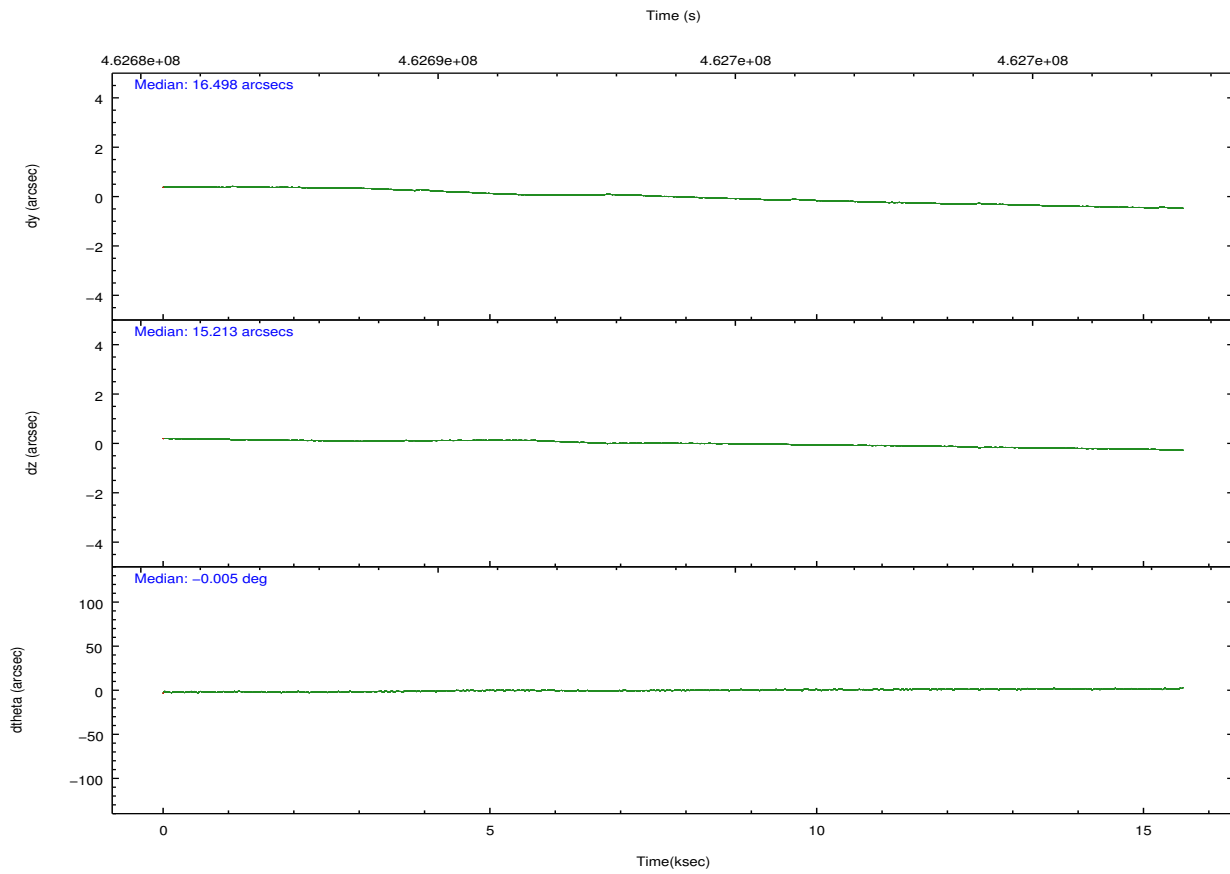
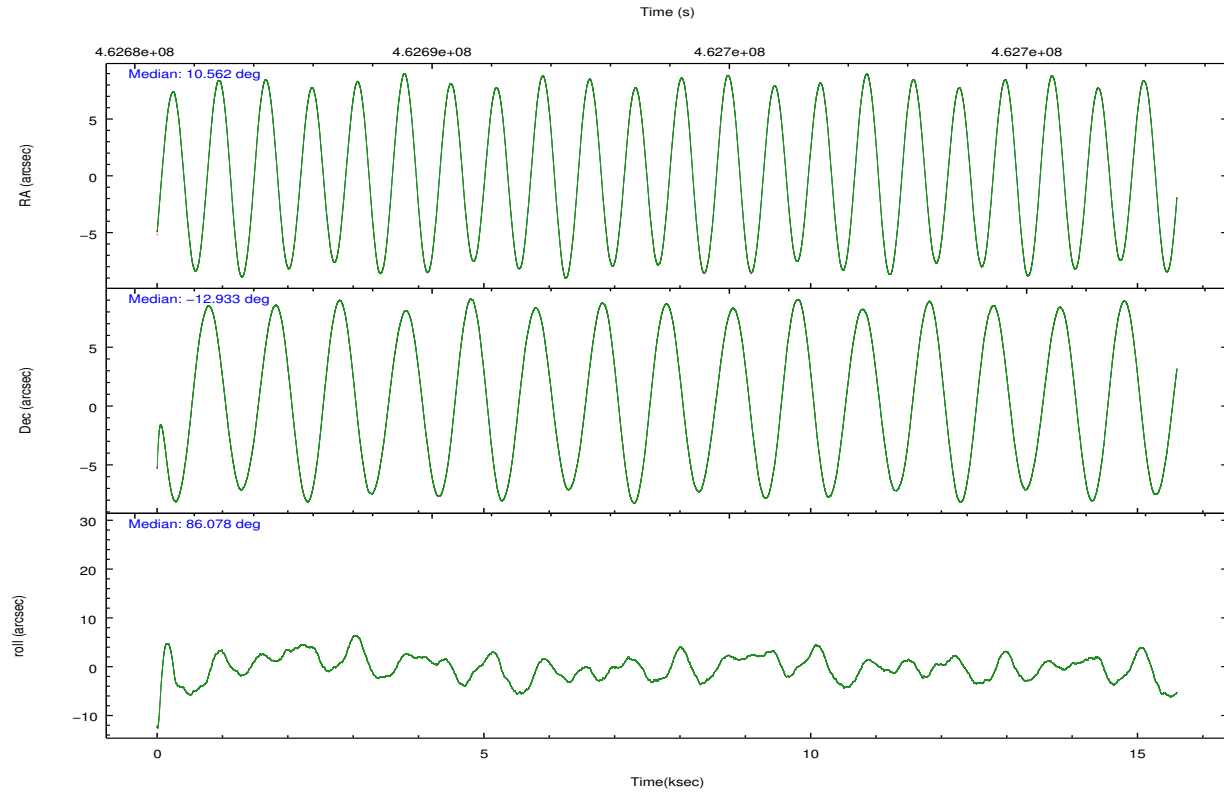
	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
grade 0 events	3391	4123	8075
	4%	3%	7%
grade 1 events	40	126	67
	0%	0%	0%
grade 2 events	2157	9561	6744
	2%	9%	6%
grade 3 events	984	4009	2957
	1%	3%	2%
grade 4 events	973	3979	2748
	1%	3%	2%
grade 5 events	4053	10689	5936
	5%	10%	5%
grade 6 events	2180	24822	8004
	2%	23%	7%
grade 7 events	64203	47447	72090
	82%	45%	67%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	10.574763	10.56207095851704	CCD I2 on	N	N
[deg] Pointing Dec	-12.956755	-12.93241800265828	CCD I3 on	N	N
[deg] Pointing Roll	85.932861	86.08663973703075	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O2	Y
[s] Observation start time (MET)	462686748.184000	462684876.66642	CCD S5 on	N	N
Observation start date	2012-08-30T04:04:41	2012-08-30T03:34:36	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	462701748.184000	462702336.51735	On-chip summing requested	N	N
Observation end date	2012-08-30T08:14:41	2012-08-30T08:25:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



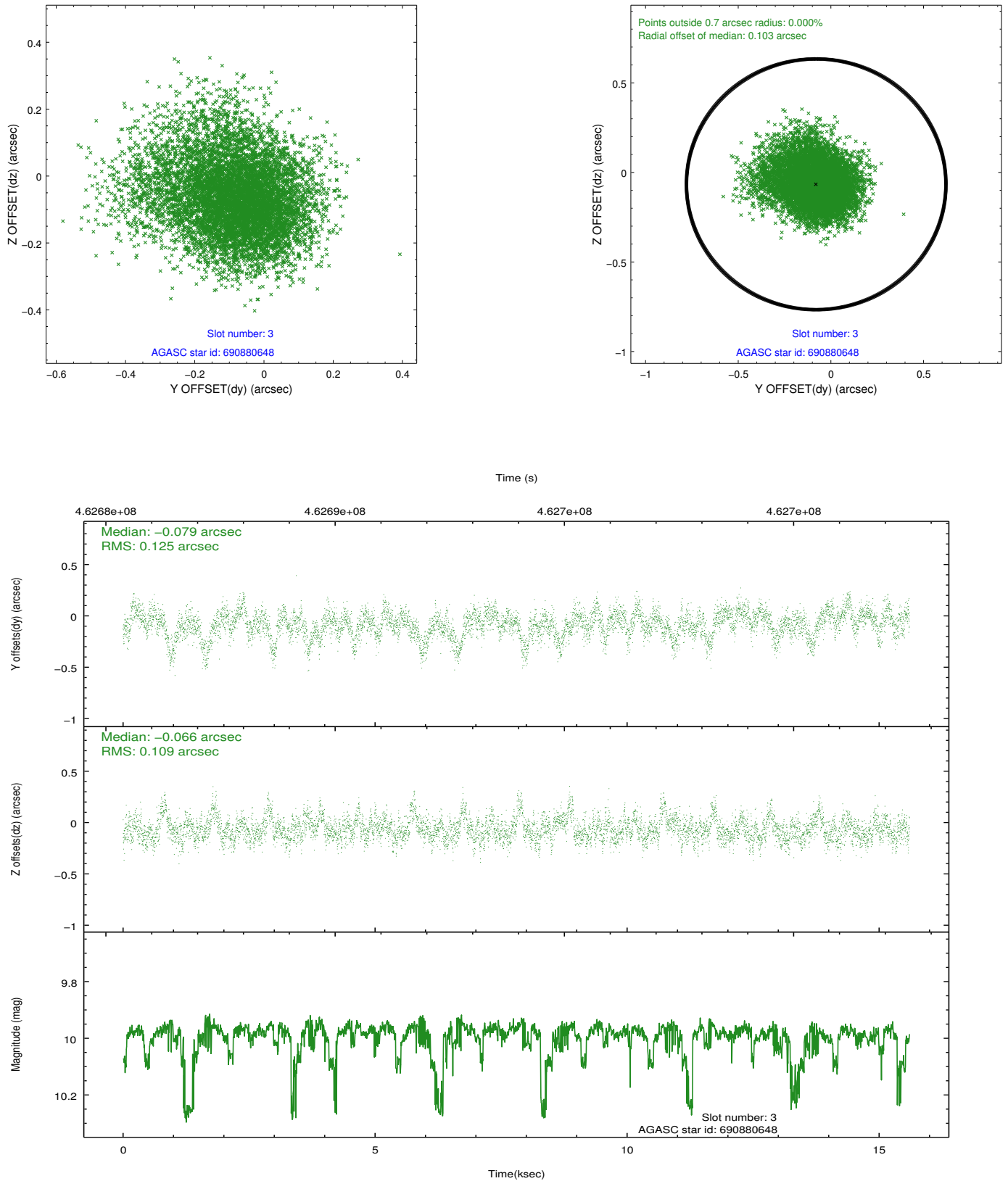


### Slot Statistics

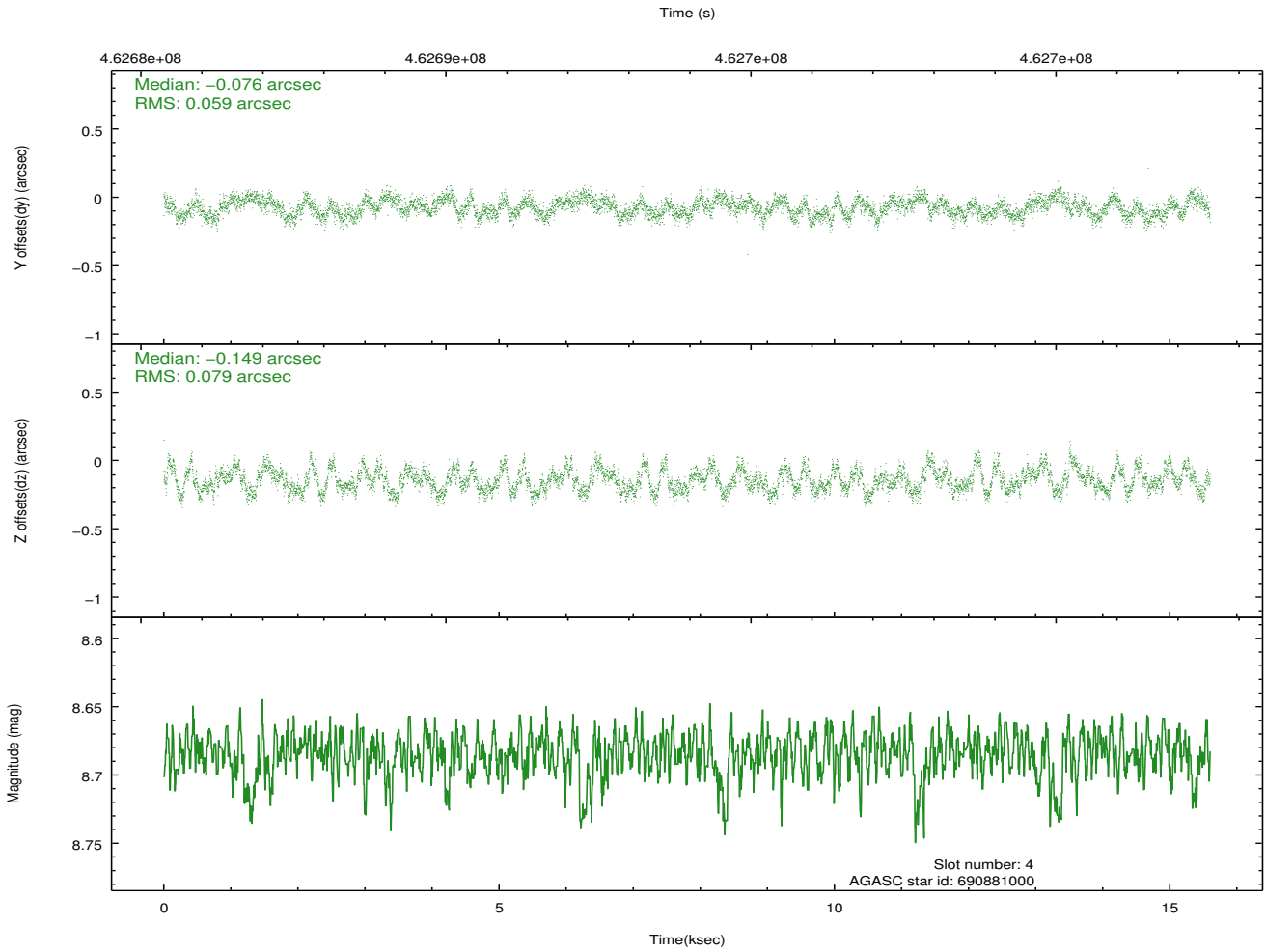
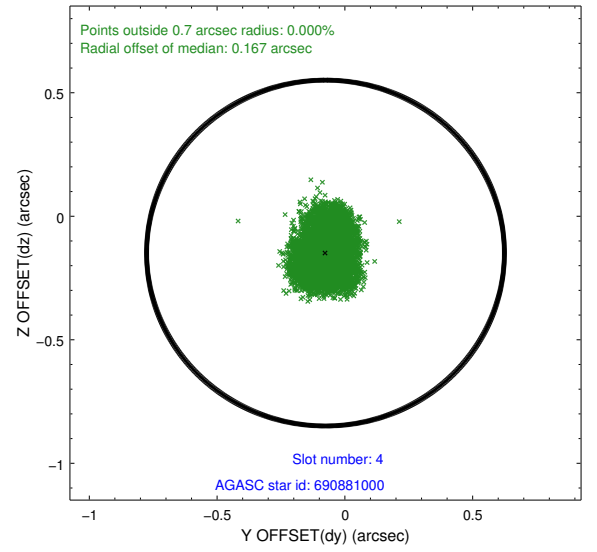
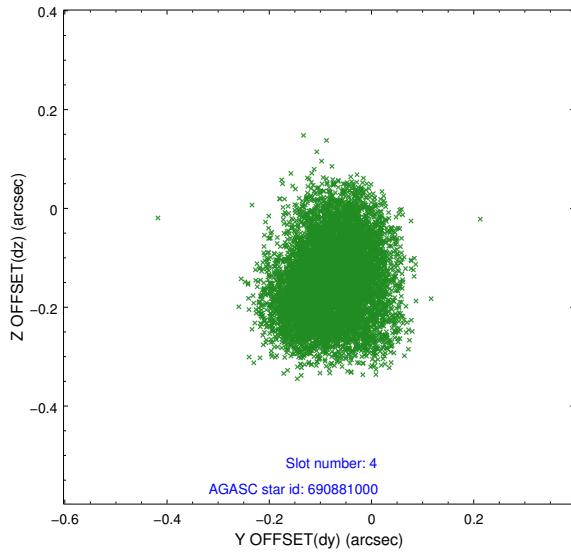
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.96	3806	-0.124	-0.004	0.010	0.021	0.000000	0.000000	-769.59	-1736.61
1	FID	ACIS-S-4	7.04	3806	0.236	0.061	0.009	0.018	0.000000	0.000000	2143.89	171.69
2	FID	ACIS-S-5	7.07	3806	-0.145	-0.047	0.009	0.016	0.000000	0.000000	-1822.12	165.52
3	GUIDE	690880648	9.99	7572	-0.079	-0.066	0.174	0.296	10.468723	-12.648792	1079.41	449.86
4	GUIDE	690881000	8.68	7605	-0.076	-0.149	0.108	0.163	10.369276	-12.690399	905.58	787.73
5	GUIDE	690881632	7.74	7610	0.167	0.332	0.088	0.135	11.115356	-13.415818	-1515.48	-2006.39
6	GUIDE	690894896	8.26	7611	0.012	-0.226	0.080	0.132	9.984413	-13.079708	-590.83	2032.93
7	GUIDE	690895480	9.98	7601	-0.021	0.106	0.190	0.311	11.261733	-12.431501	2055.09	-2274.52

## 2.4 Star Slots

### 2.4.1 Slot 3

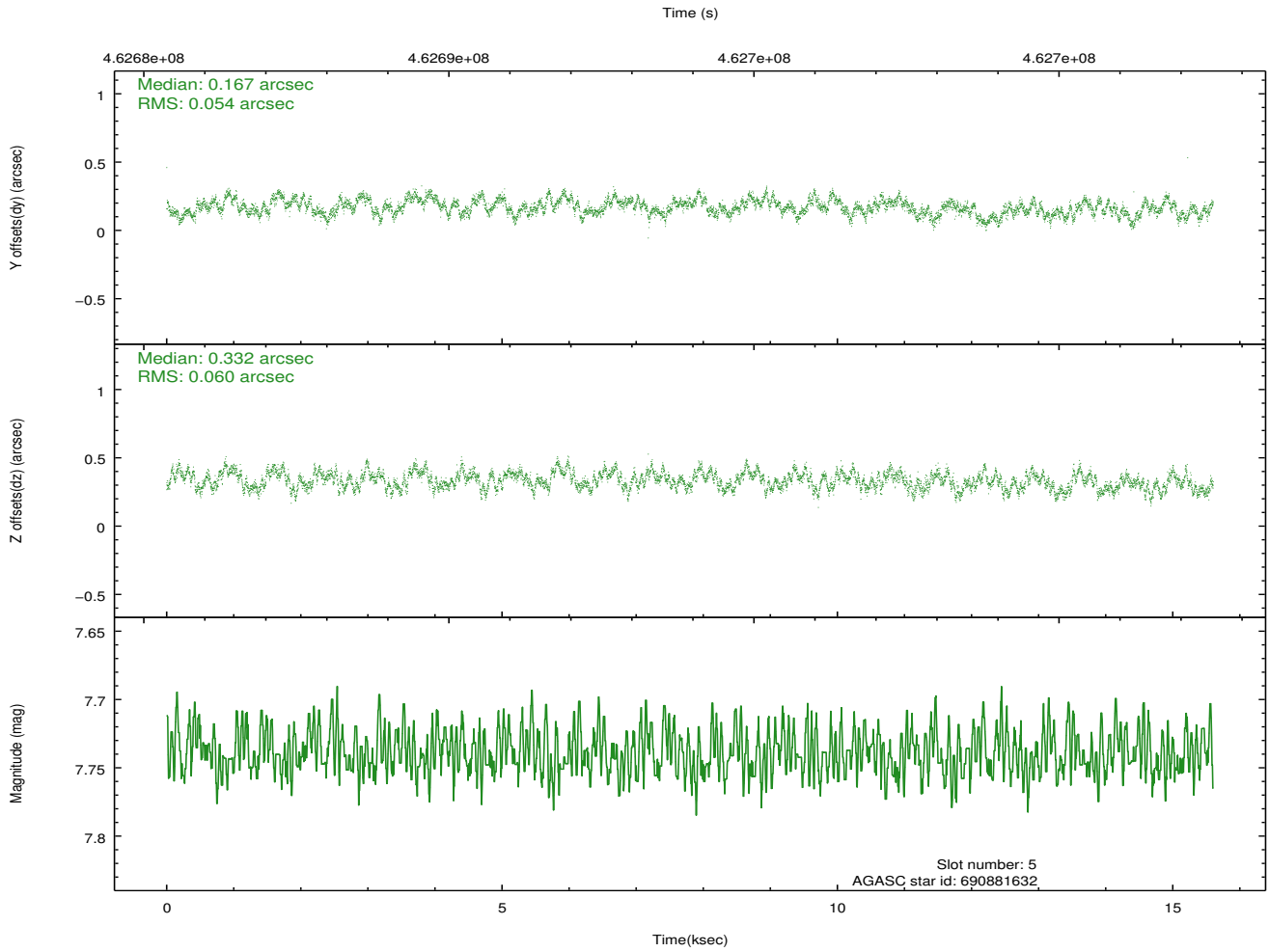
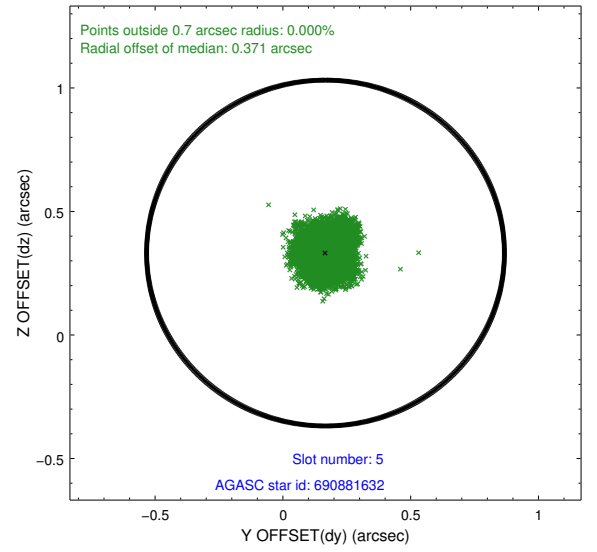
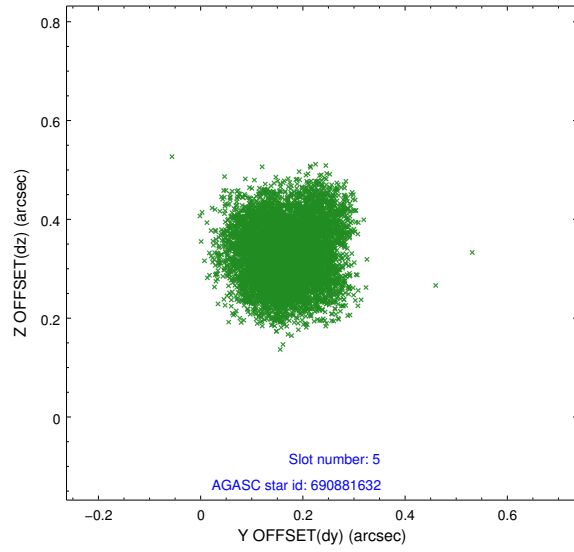


## 2.4.2 Slot 4

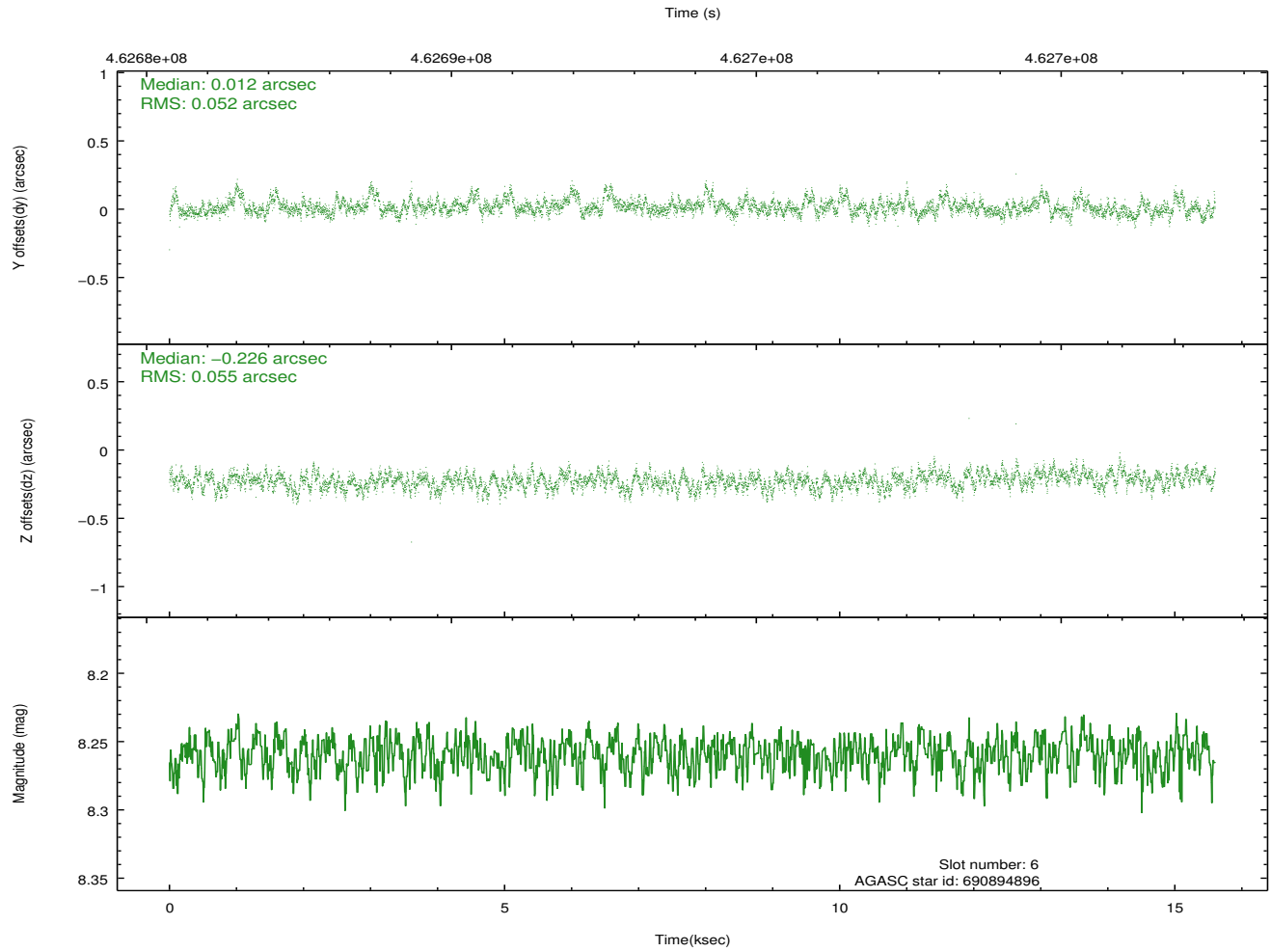
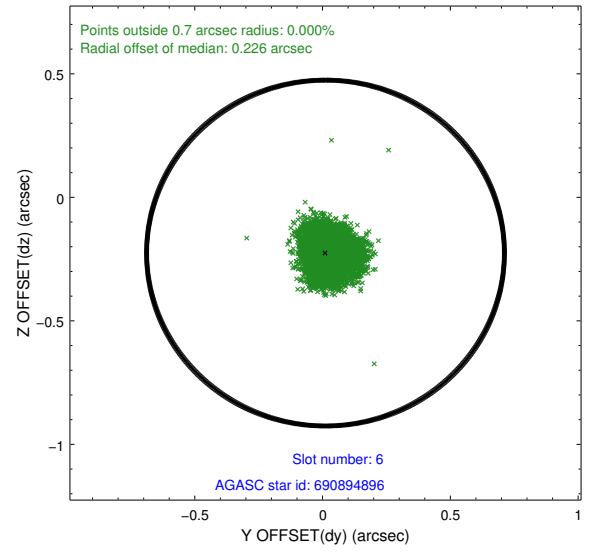
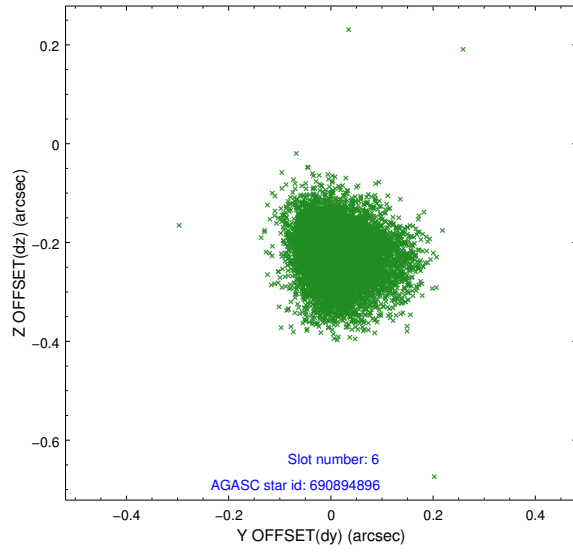




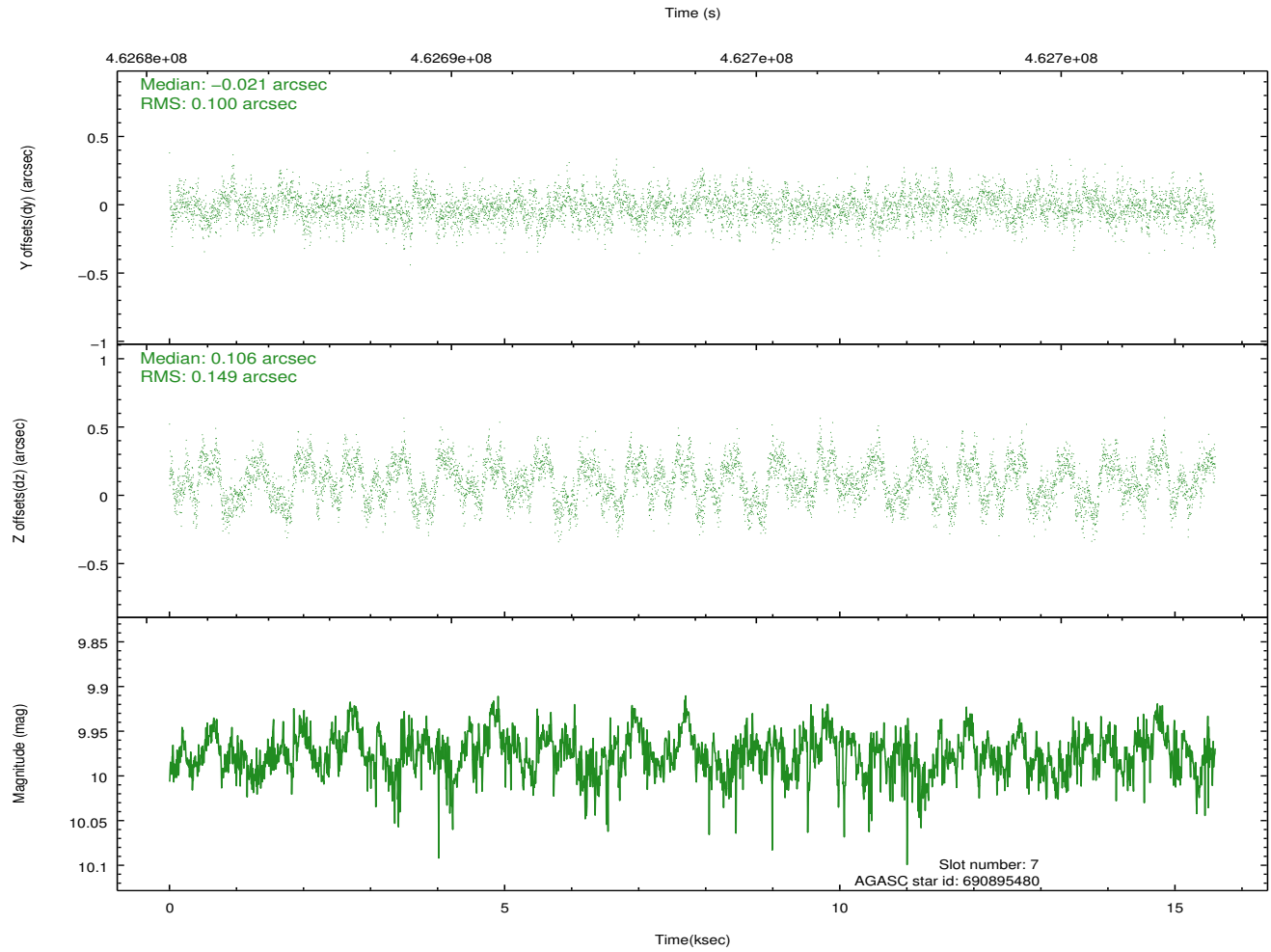
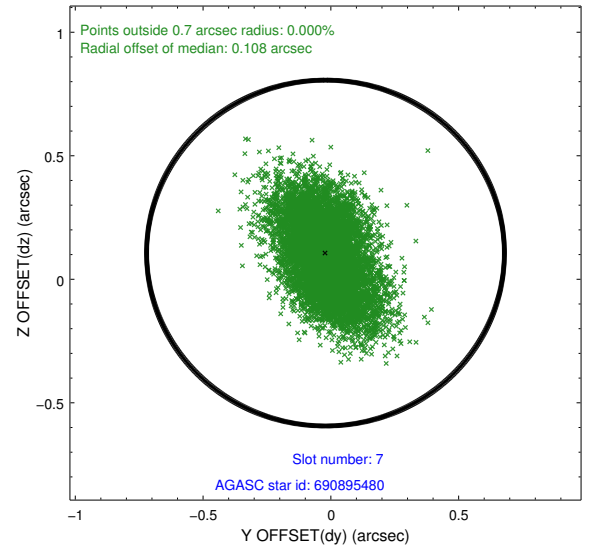
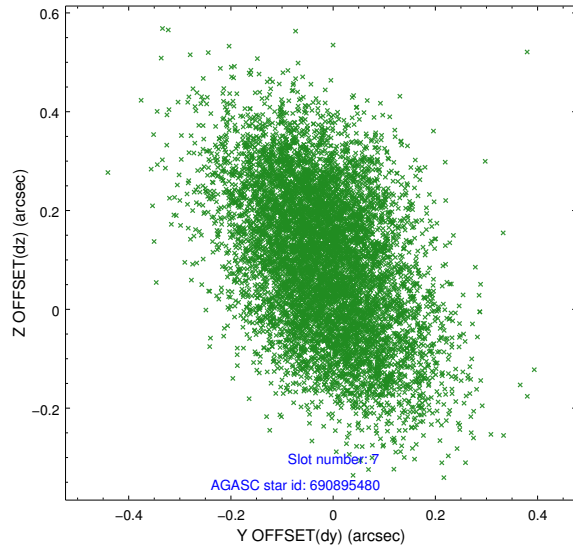
### 2.4.3 Slot 5



## 2.4.4 Slot 6

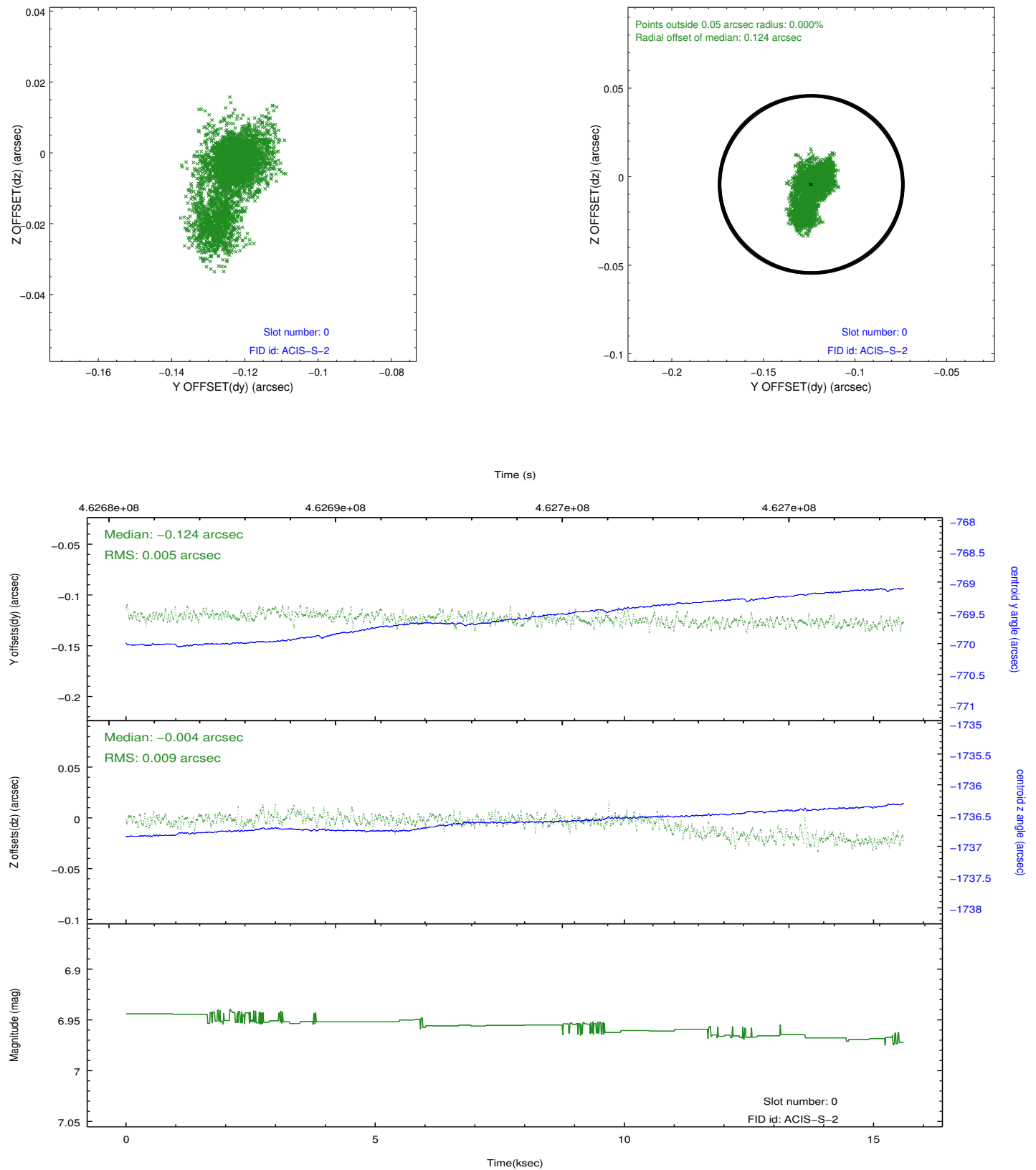


## 2.4.5 Slot 7

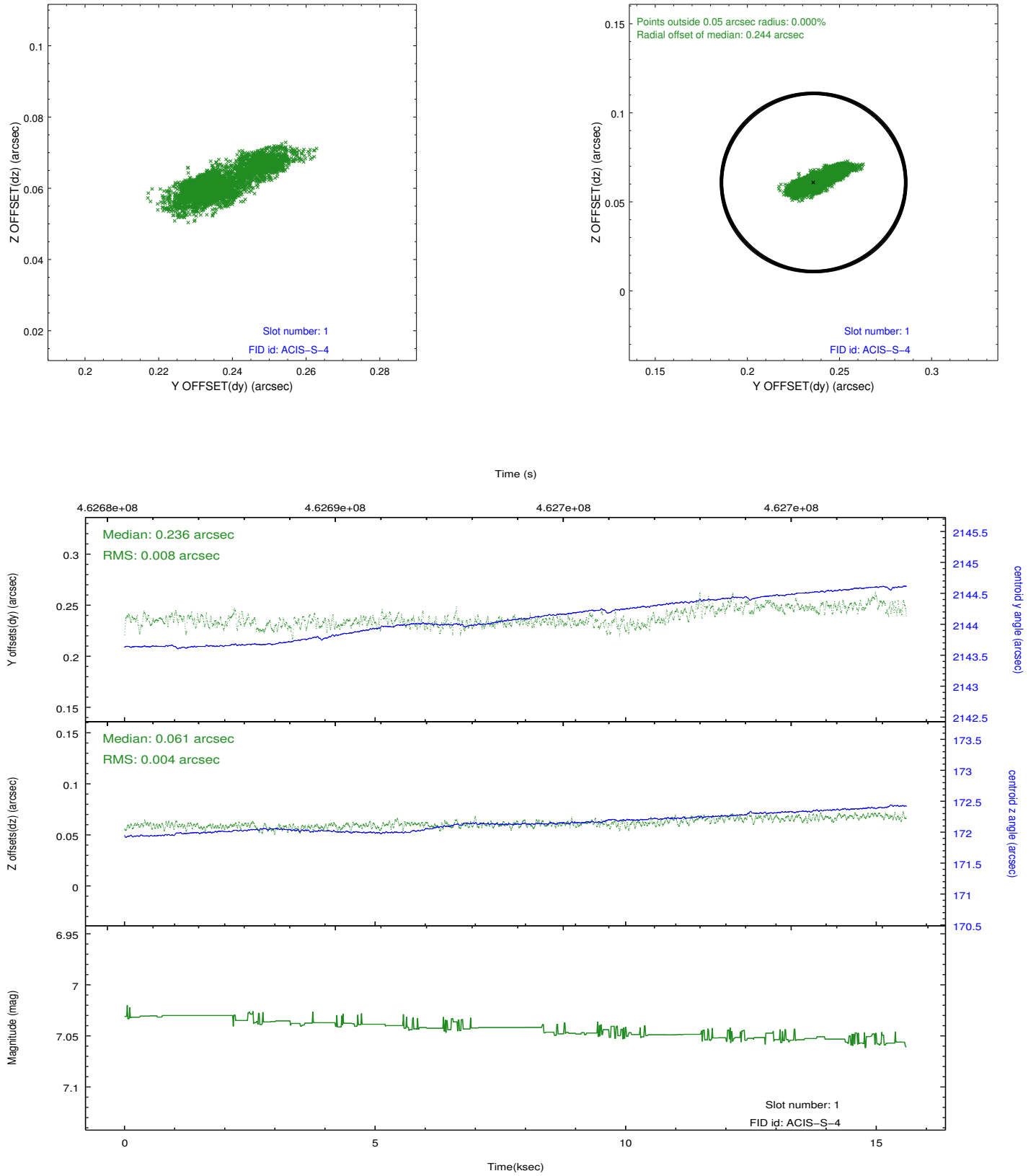


## 2.5 FID Slots

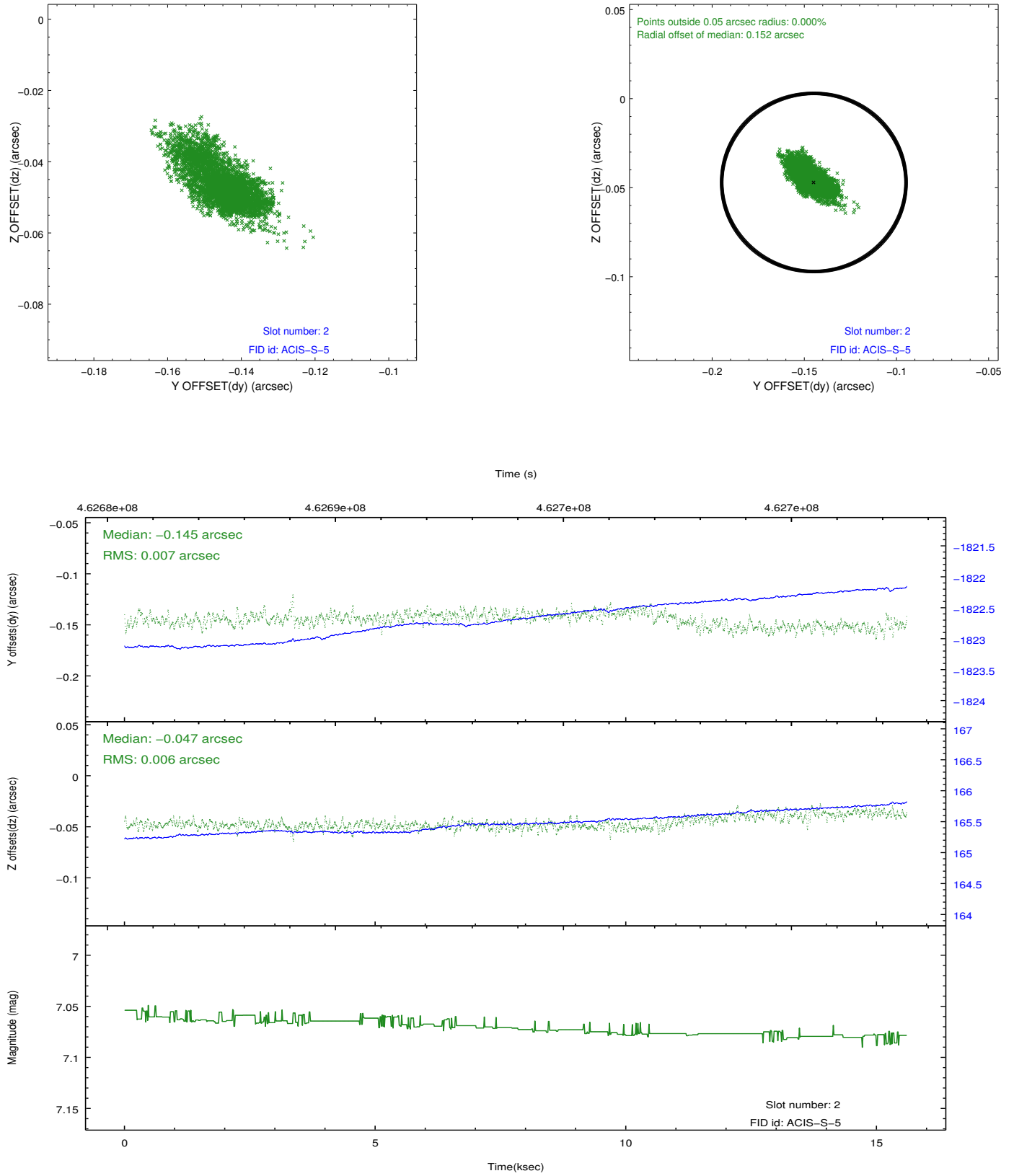
### 2.5.1 Slot 0



## 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)	2012.08.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.080353749096

### A.2 Comments