

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4086 - L2 Version 3  
Chandra X-Ray Center

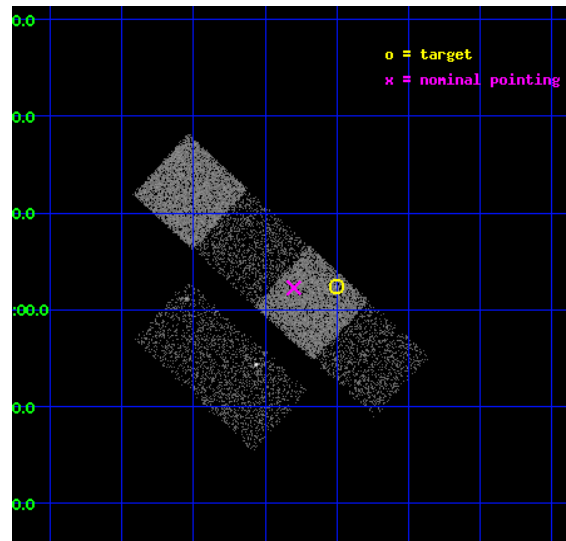
L2 Processing Date : Oct 23 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

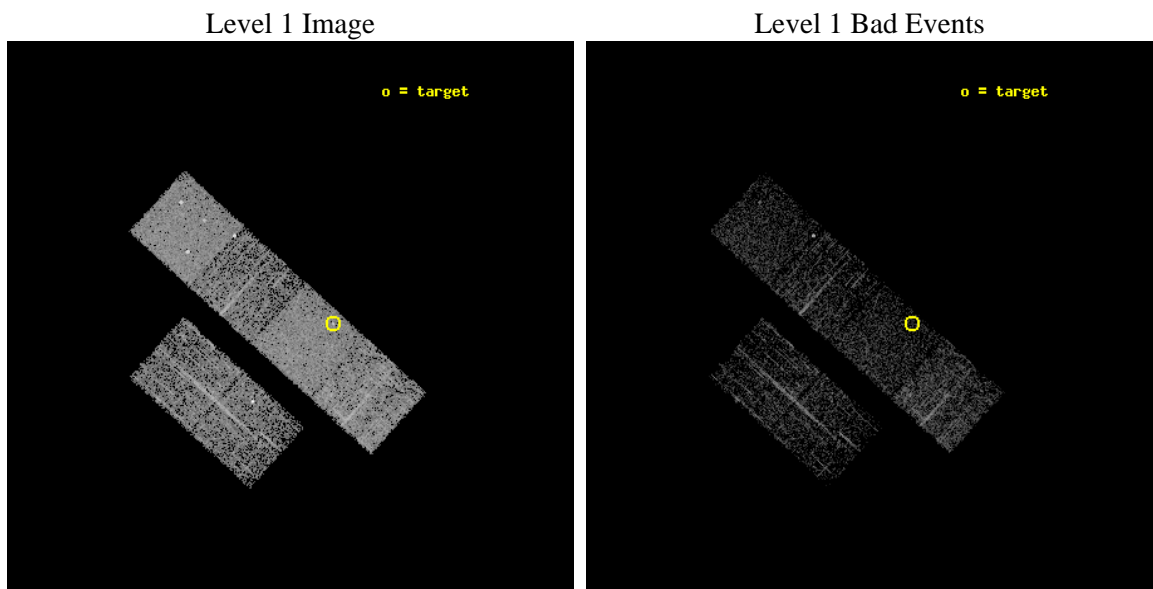
seq_num	700765	Sequence number
obs_id	4086	Observation id
title	ARE ALL NARROW-LINE SEYFERT 1S ULTRASOFT X-RAY SOURCES?	Proposal t
observer	Prof RICHARD POGGE	Principal investigator
object	SDSS J104230.14+010223.7	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	160.625417	Observer's specified target RA [deg]
dec_targ	1.039917	Observer's specified target Dec [deg]
ra_nom	160.70004815371	Nominal RA [deg]
dec_nom	1.0377732613933	Nominal Dec [deg]
roll_nom	42.284857219587	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1755.6599133015	Sum of GTIs [s]
livetime	1733.4286903478	Livetime [s]
ontime2	1755.7009533048	Sum of GTIs [s]
ontime3	1755.5368131995	Sum of GTIs [s]
ontime5	1755.6188932061	Sum of GTIs [s]
ontime6	1755.5778532028	Sum of GTIs [s]
ontime7	1755.6599133015	Sum of GTIs [s]
ontime8	1752.2546933889	Sum of GTIs [s]
l2events	22399	Number of level 2 events



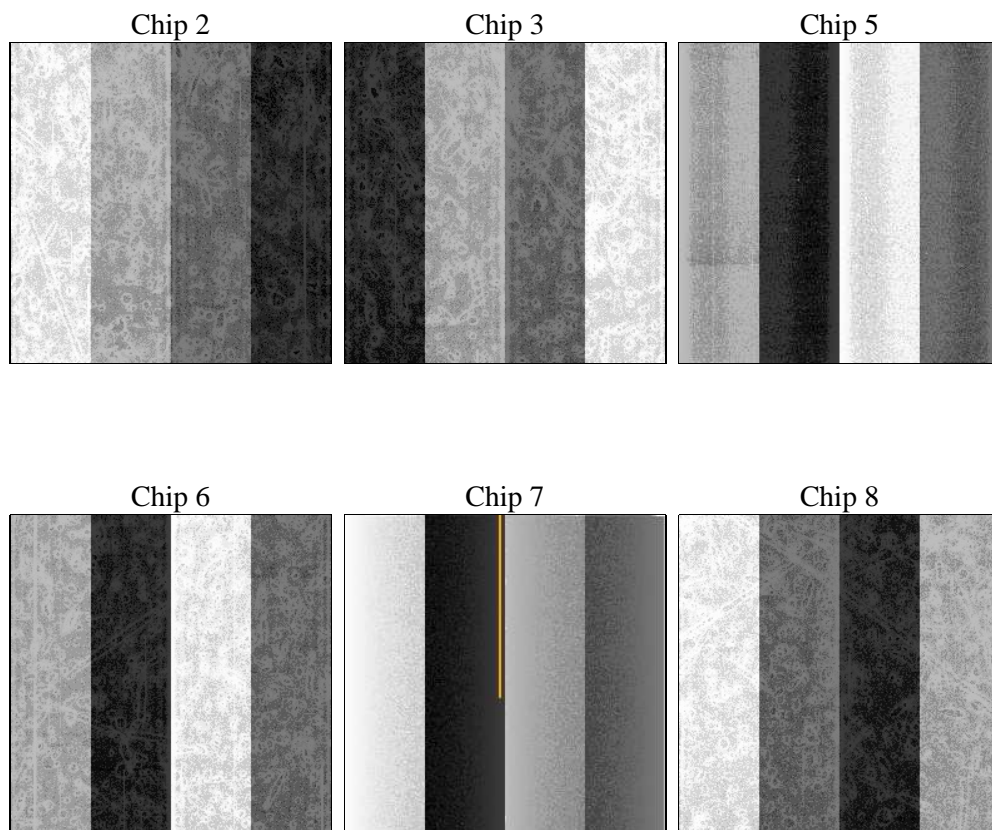
## 2 OBI

### 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	1755.6599133015	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	1755.7009533048	Sum of GTIs [s]
date	2012-10-23T08:56:47	Date and time of file creation	ontime3	1755.5368131995	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	1755.6188932061	Sum of GTIs [s]
			ontime6	1755.5778532028	Sum of GTIs [s]
			ontime7	1755.6599133015	Sum of GTIs [s]
			ontime8	1752.2546933889	Sum of GTIs [s]
			l1events	89425	Number of level 1 events

### 2.1.4 Events

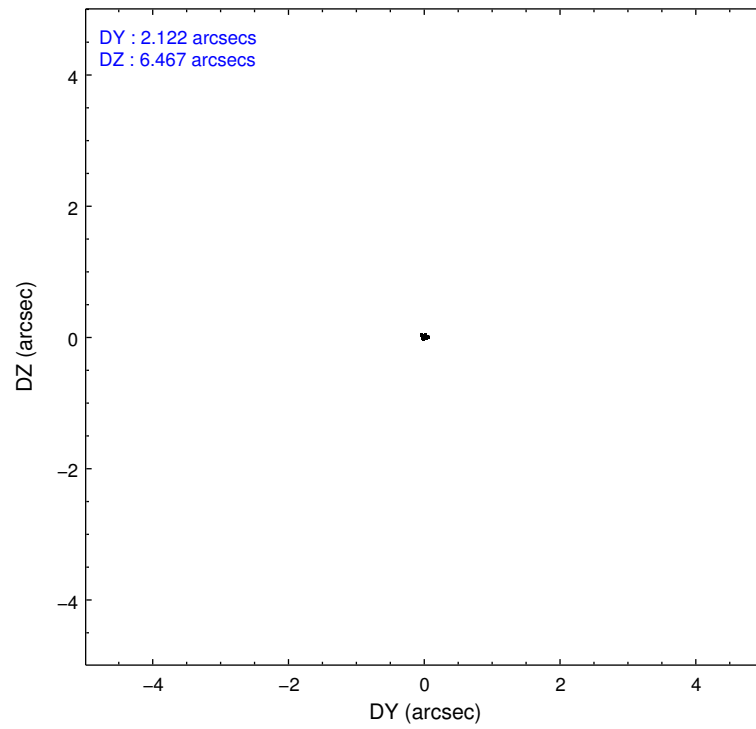
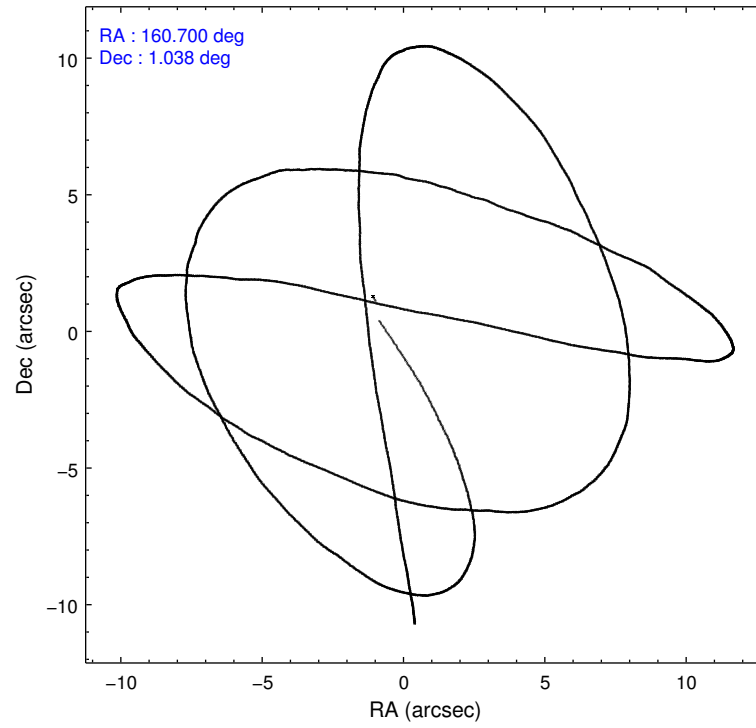
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	11980	11241	19136	11563	17154	18351
rejected events	10591	9179	9244	9992	8876	14847
rejected %	88%	81%	48%	86%	51%	80%

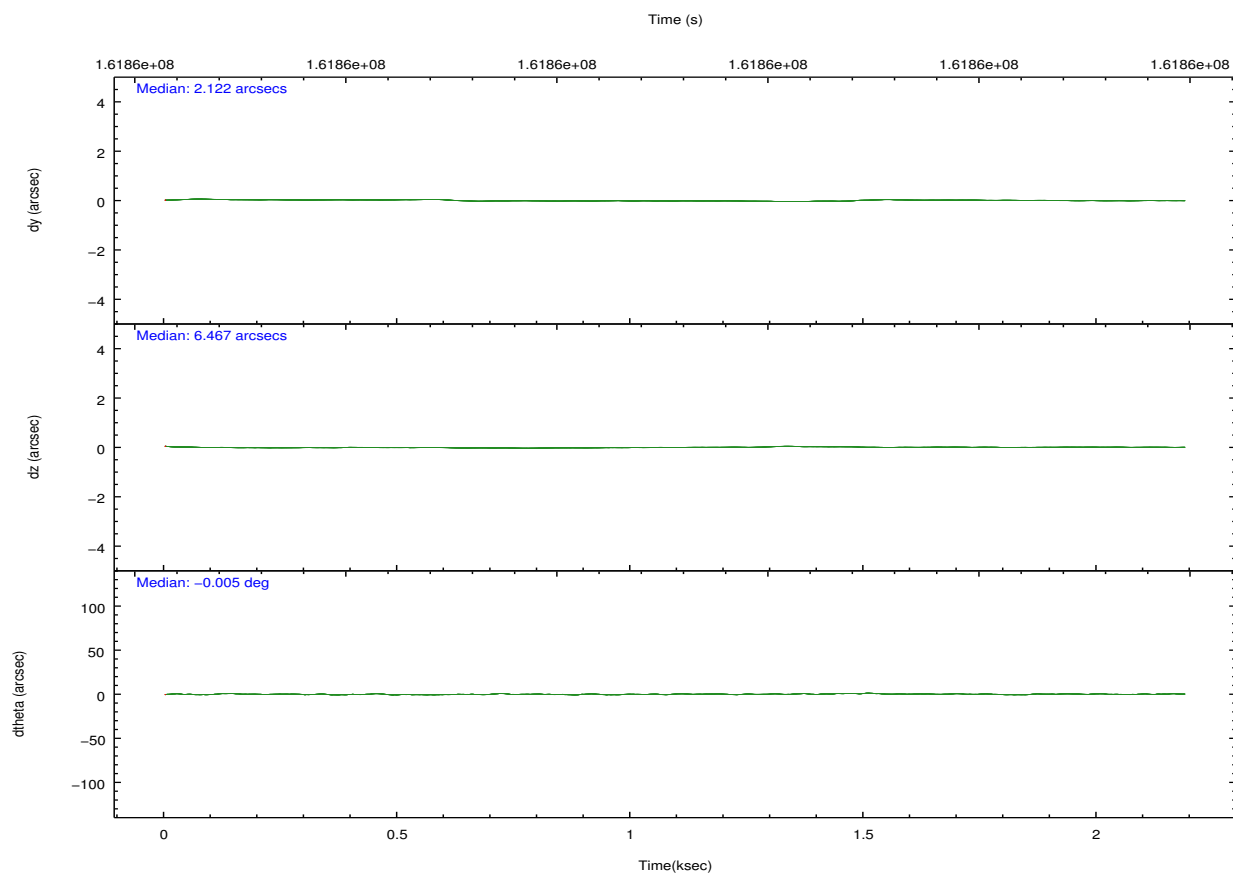
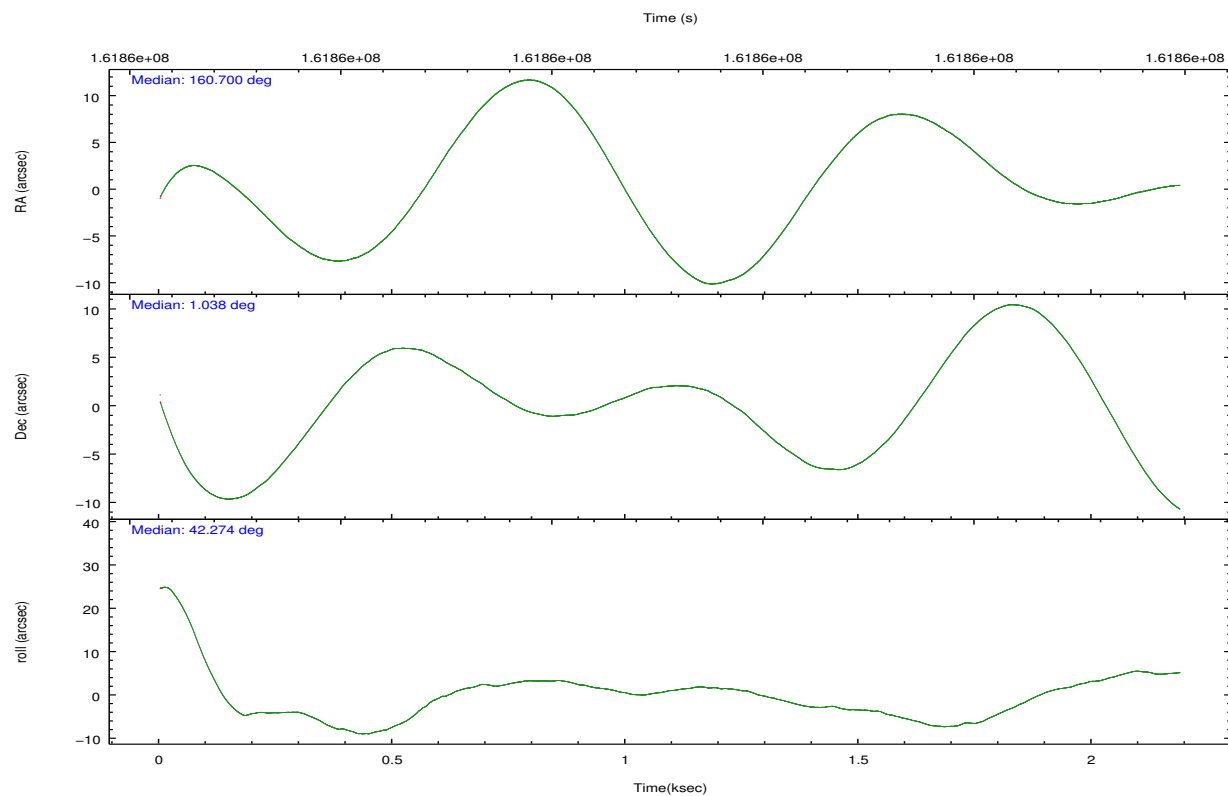
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	675	1174	1703	747	775	1152
	5%	10%	8%	6%	4%	6%
grade 1 events	6	14	193	3	19	16
	0%	0%	1%	0%	0%	0%
grade 2 events	258	316	2617	299	1512	693
	2%	2%	13%	2%	8%	3%
grade 3 events	108	154	471	129	712	400
	0%	1%	2%	1%	4%	2%
grade 4 events	125	164	421	122	726	393
	1%	1%	2%	1%	4%	2%
grade 5 events	397	475	1403	556	1523	638
	3%	4%	7%	4%	8%	3%
grade 6 events	225	260	4695	276	4562	885
	1%	2%	24%	2%	26%	4%
grade 7 events	10186	8684	7633	9431	7325	14174
	85%	77%	39%	81%	42%	77%

## 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	160.692226	160.7000481537139	Subarray requested	NONE	NONE
[deg] Pointing Dec	1.011786	1.037773261393318	Alternating exposures requested	N	N
[deg] Pointing Roll	42.128236	42.28485721958676	[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)	161857376.184000	161856445.00118			
Observation start date	2003-02-17T08:21:52	2003-02-17T08:07:25			
[s] Observation end time (MET)	161859376.184000	161859929.48882			
Observation end date	2003-02-17T08:55:12	2003-02-17T09:05:29			
Read mode	TIMED	TIMED			

## 2.3 Aspect





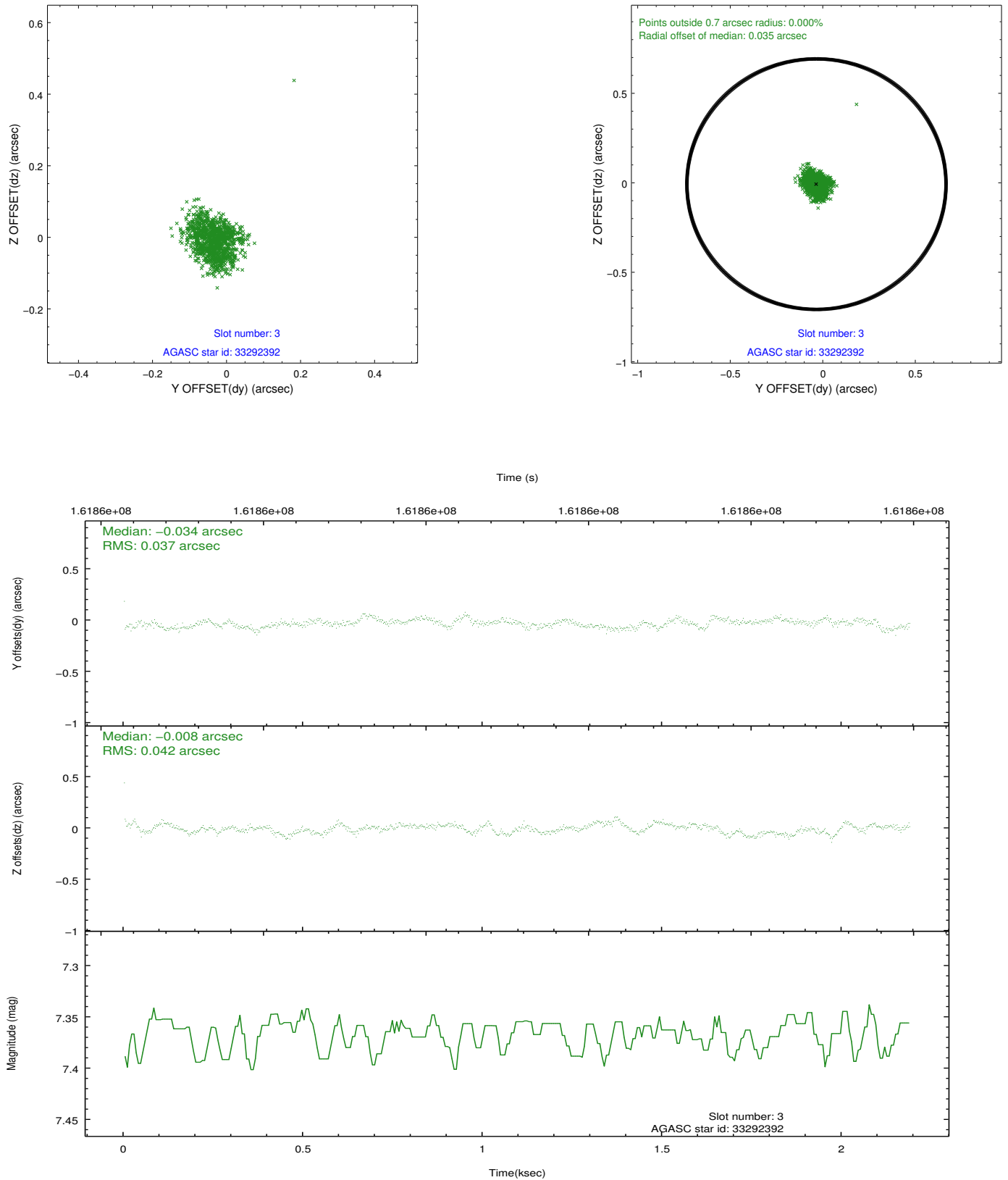
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	534	-0.043	0.009	0.006	0.010	0.000000	0.000000	-754.76	-1727.62
1	FID	ACIS-S-4	7.20	534	-0.009	0.018	0.005	0.011	0.000000	0.000000	2157.18	177.84
2	FID	ACIS-S-5	7.24	534	0.021	-0.018	0.007	0.011	0.000000	0.000000	-1803.73	174.81
3	GUIDE	33292392	7.37	1068	-0.034	-0.008	0.058	0.090	160.590849	0.862137	-631.43	-154.70
4	GUIDE	33292632	9.87	1067	-0.045	-0.068	0.137	0.224	160.006920	0.869927	-2172.16	1275.70
5	GUIDE	33294552	9.80	1068	-0.018	0.051	0.095	0.164	160.730104	0.876072	-227.94	-452.48
6	GUIDE	33299432	9.46	1068	-0.040	0.091	0.101	0.163	161.254689	0.755910	884.63	-2041.31
7	GUIDE	33296928	9.90	1067	0.143	-0.063	0.118	0.198	160.423496	1.234212	-179.05	1240.90

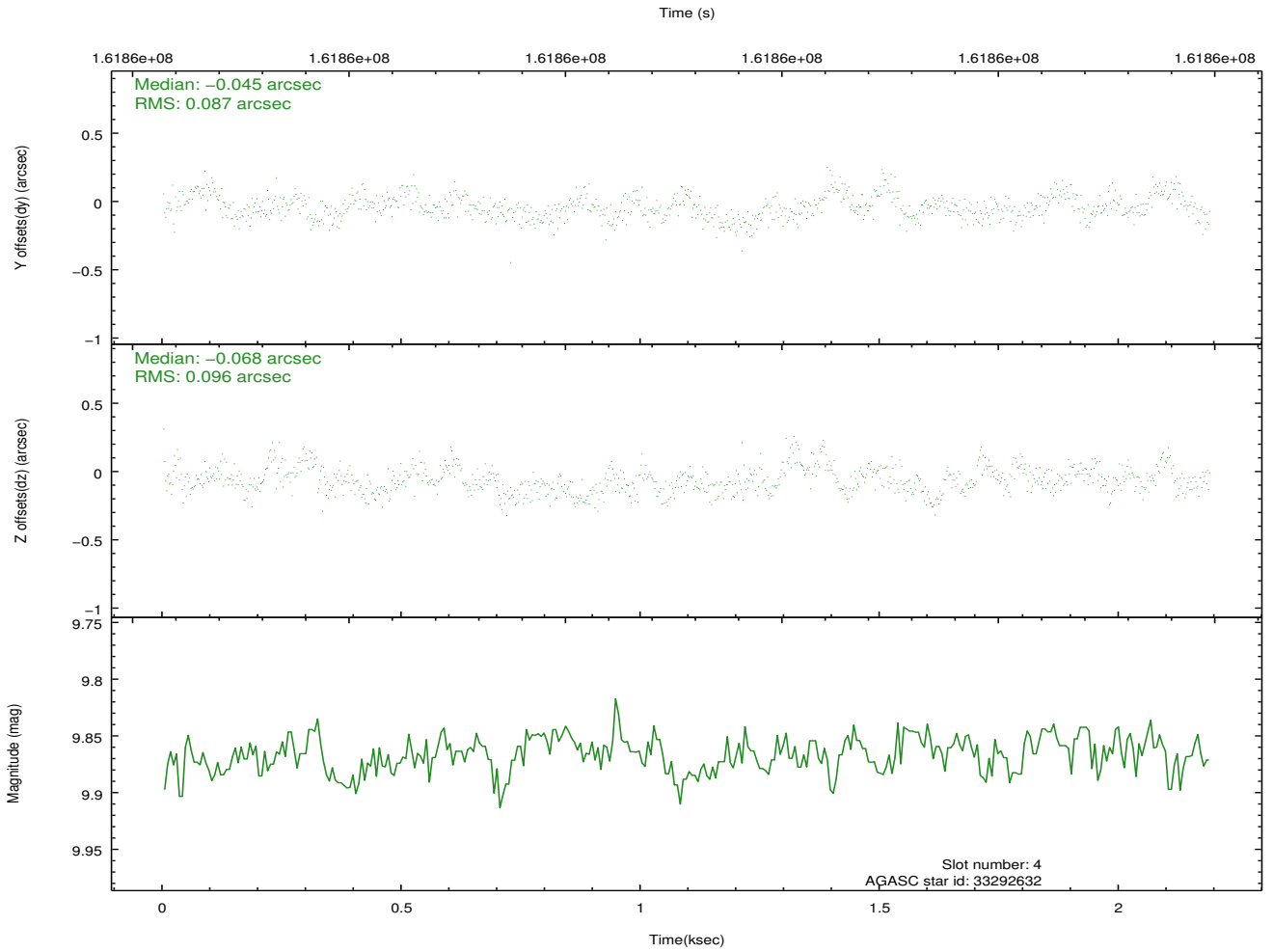
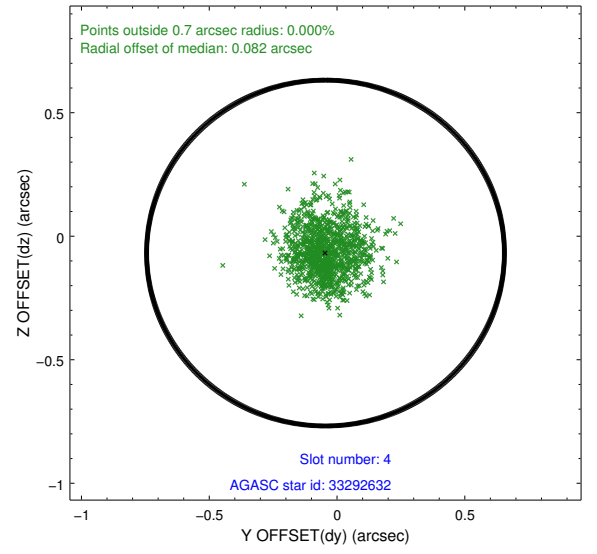
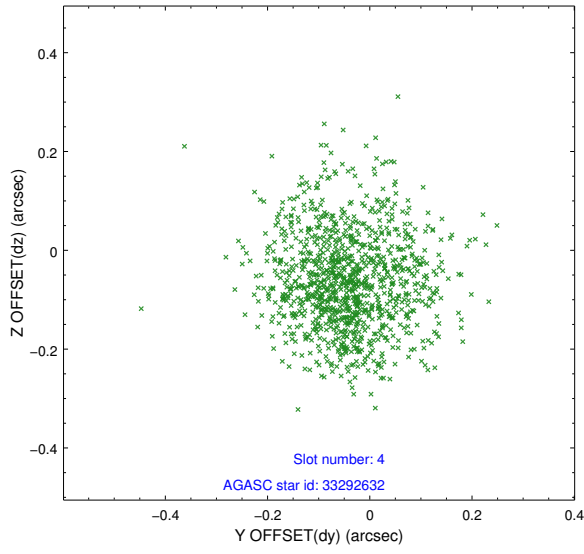


## 2.4 Star Slots

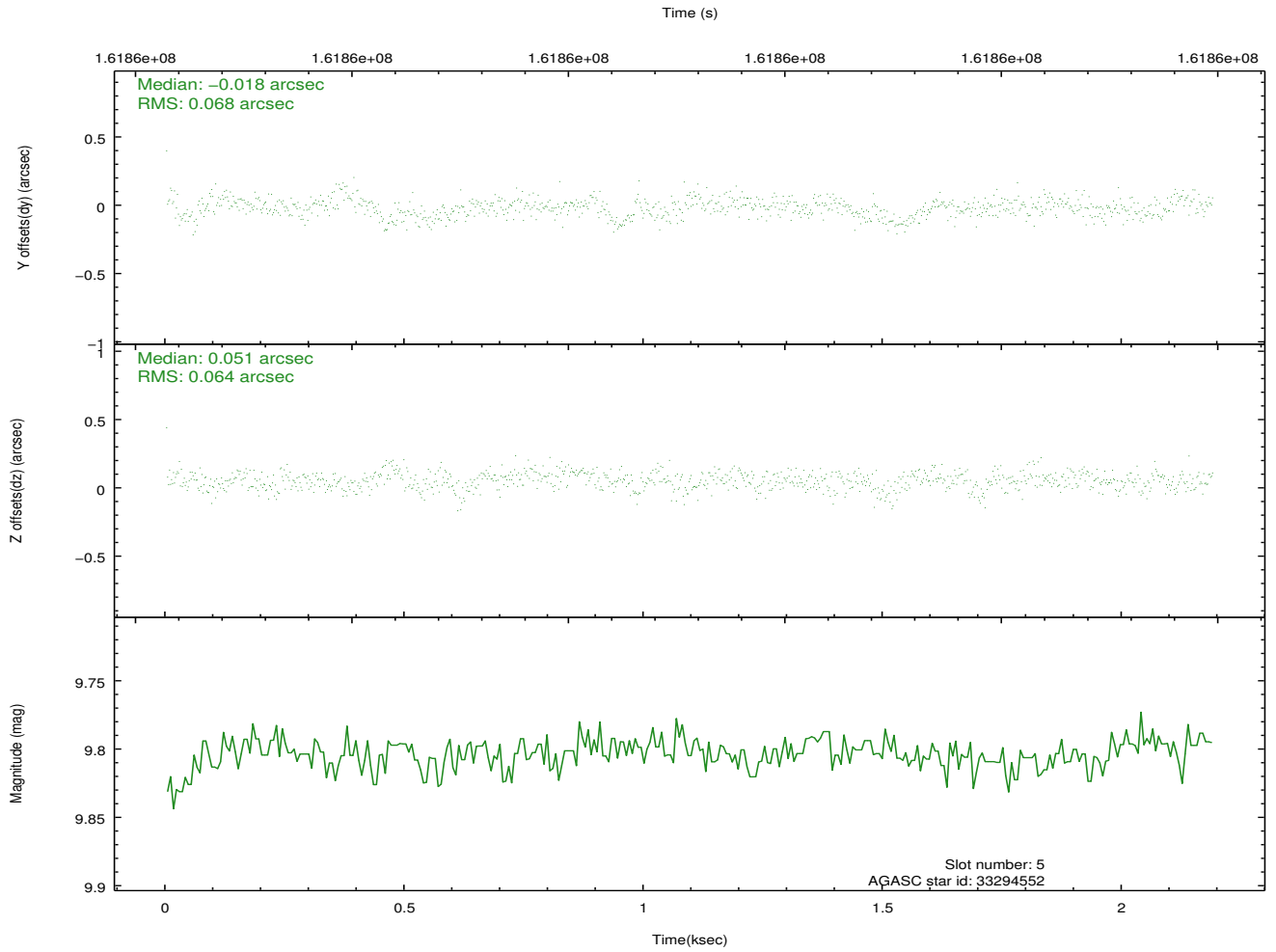
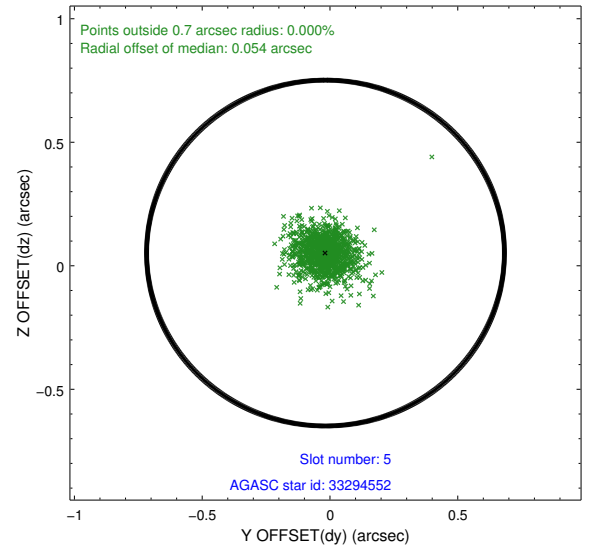
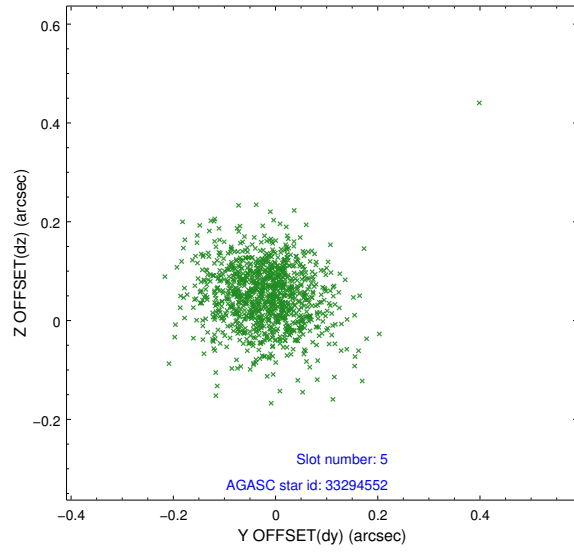
### 2.4.1 Slot 3



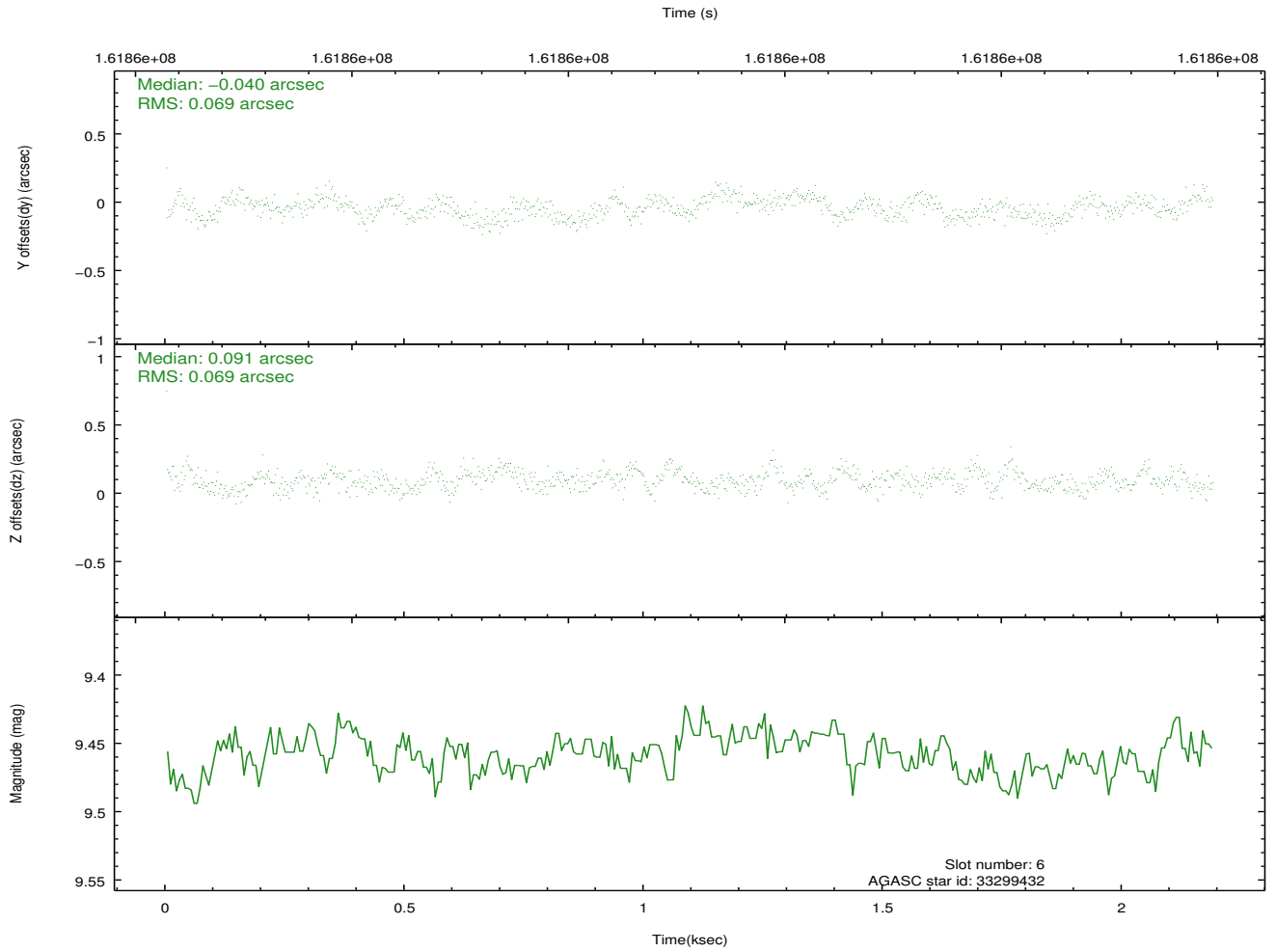
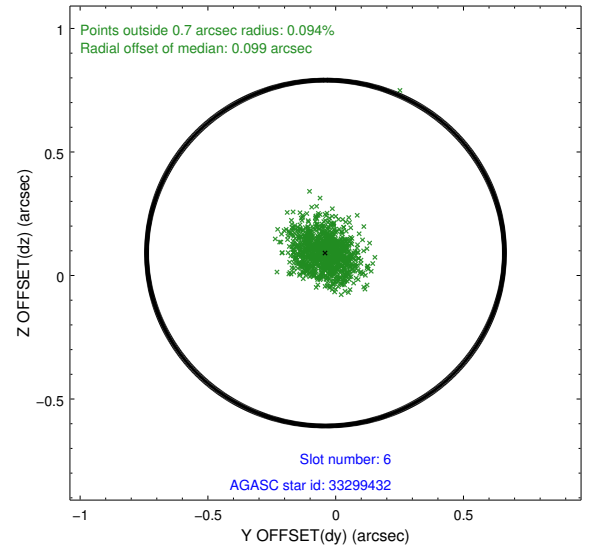
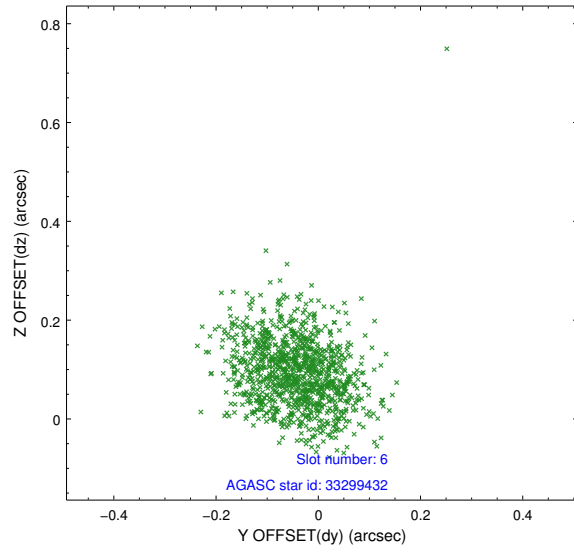
## 2.4.2 Slot 4



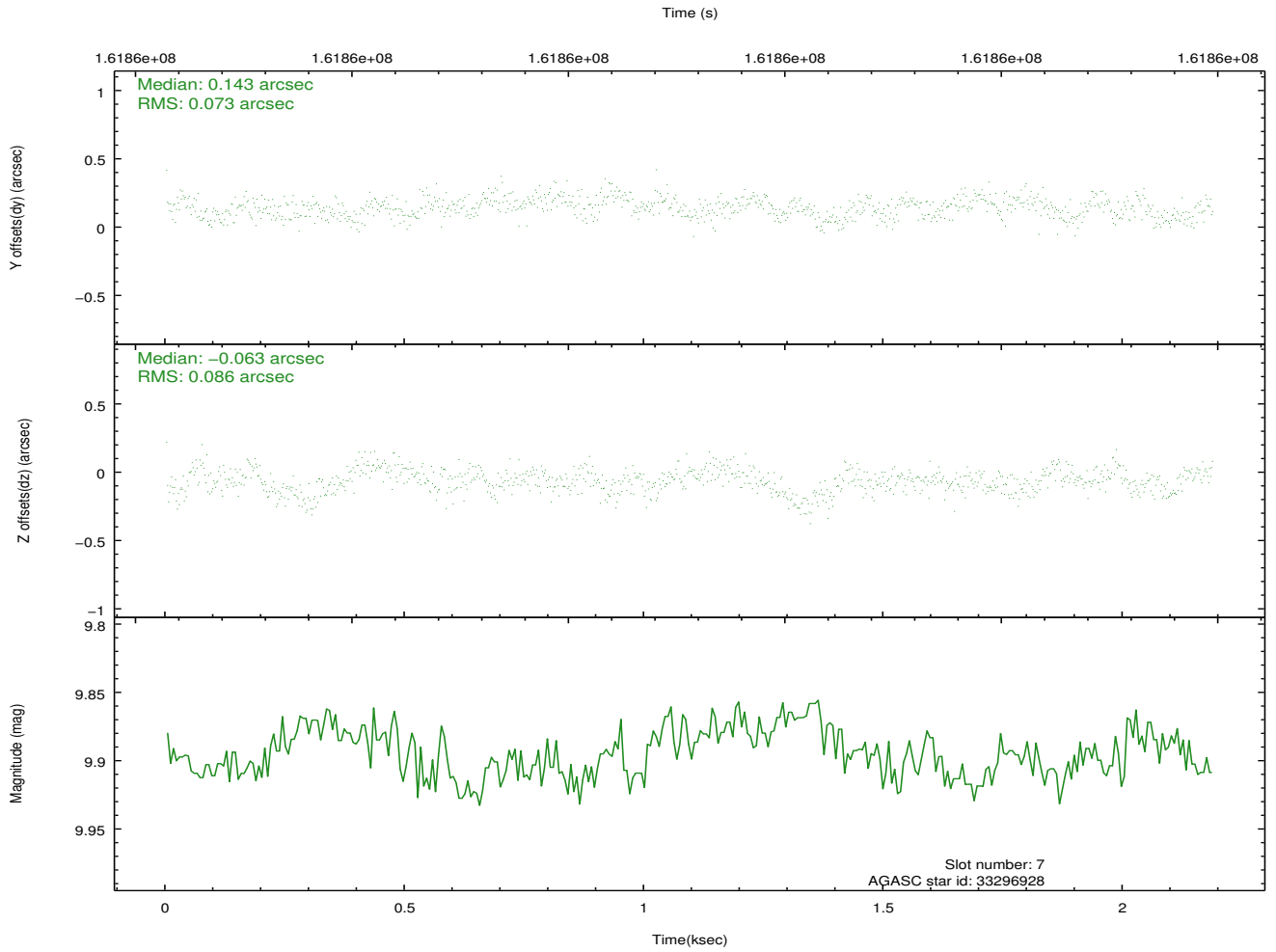
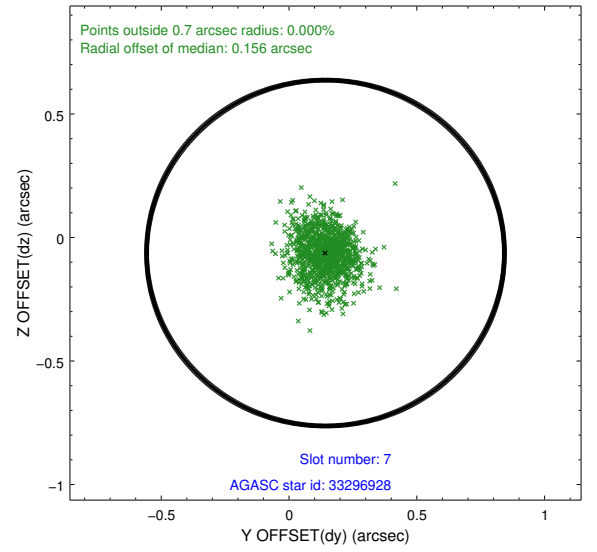
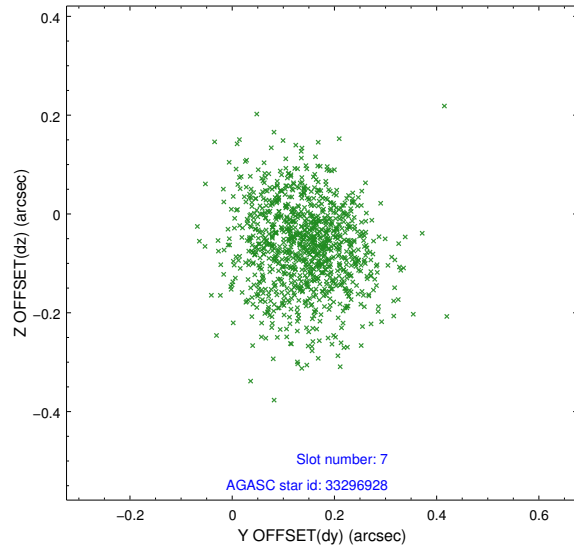
### 2.4.3 Slot 5



## 2.4.4 Slot 6

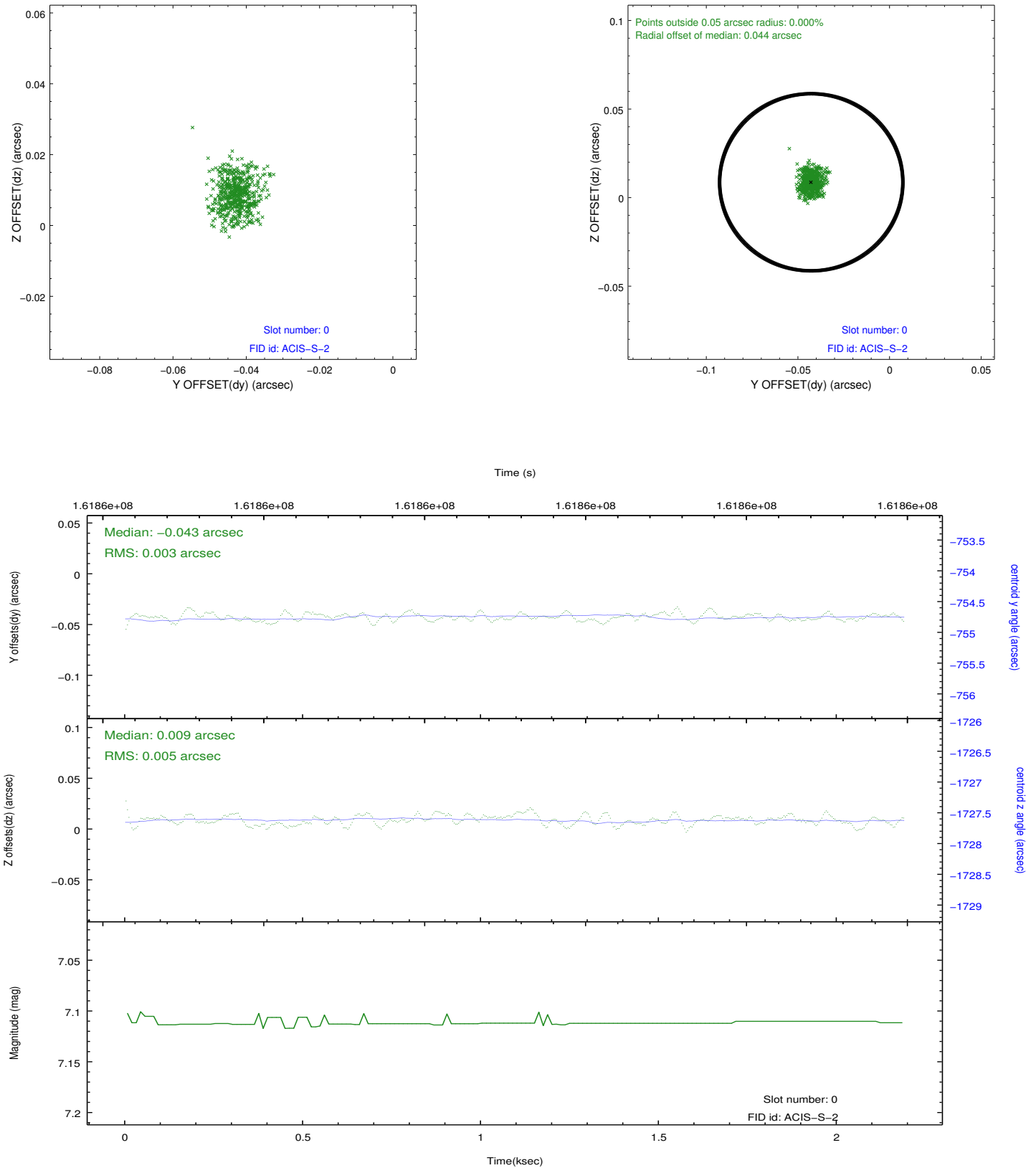


## 2.4.5 Slot 7

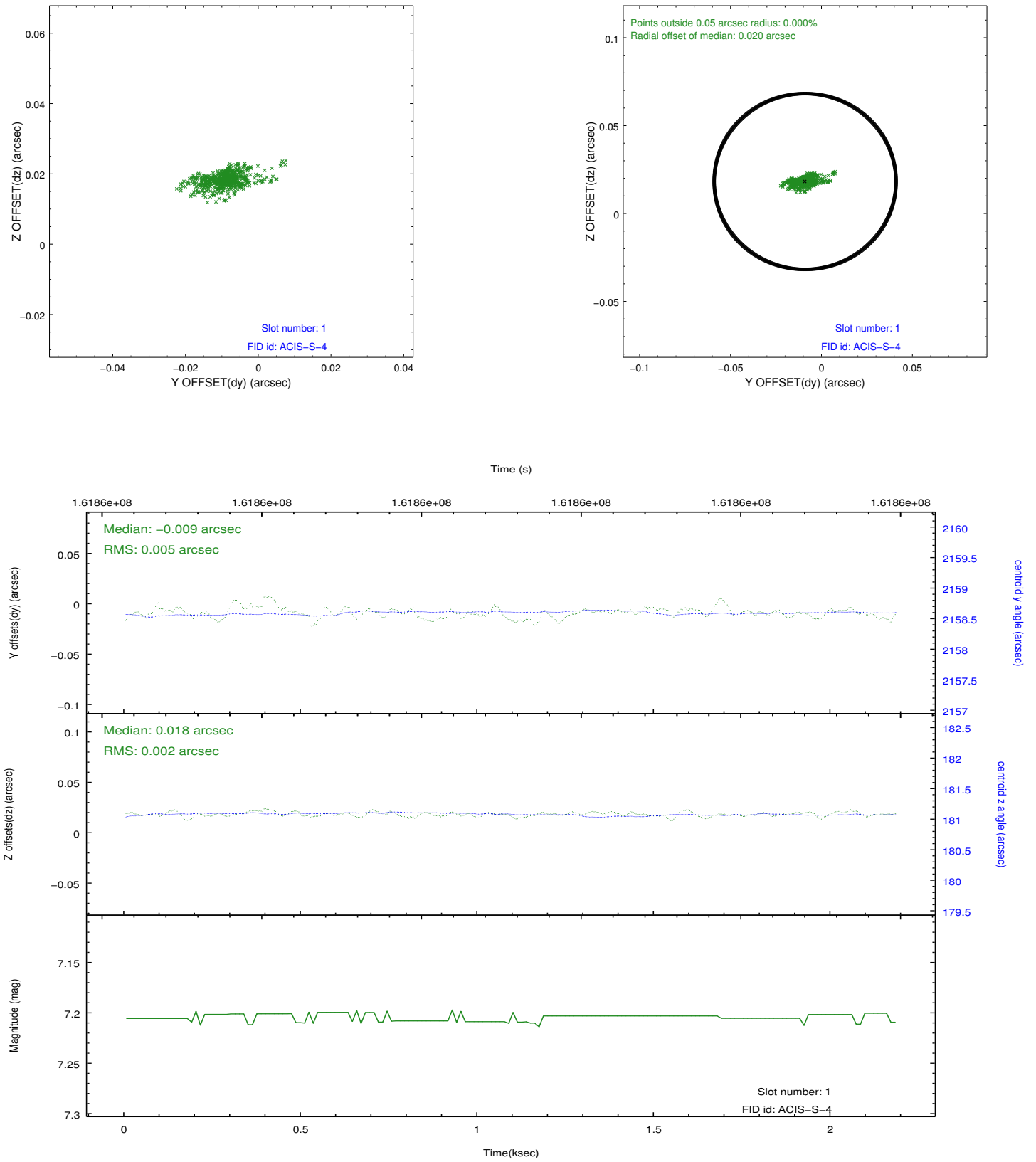


## 2.5 FID Slots

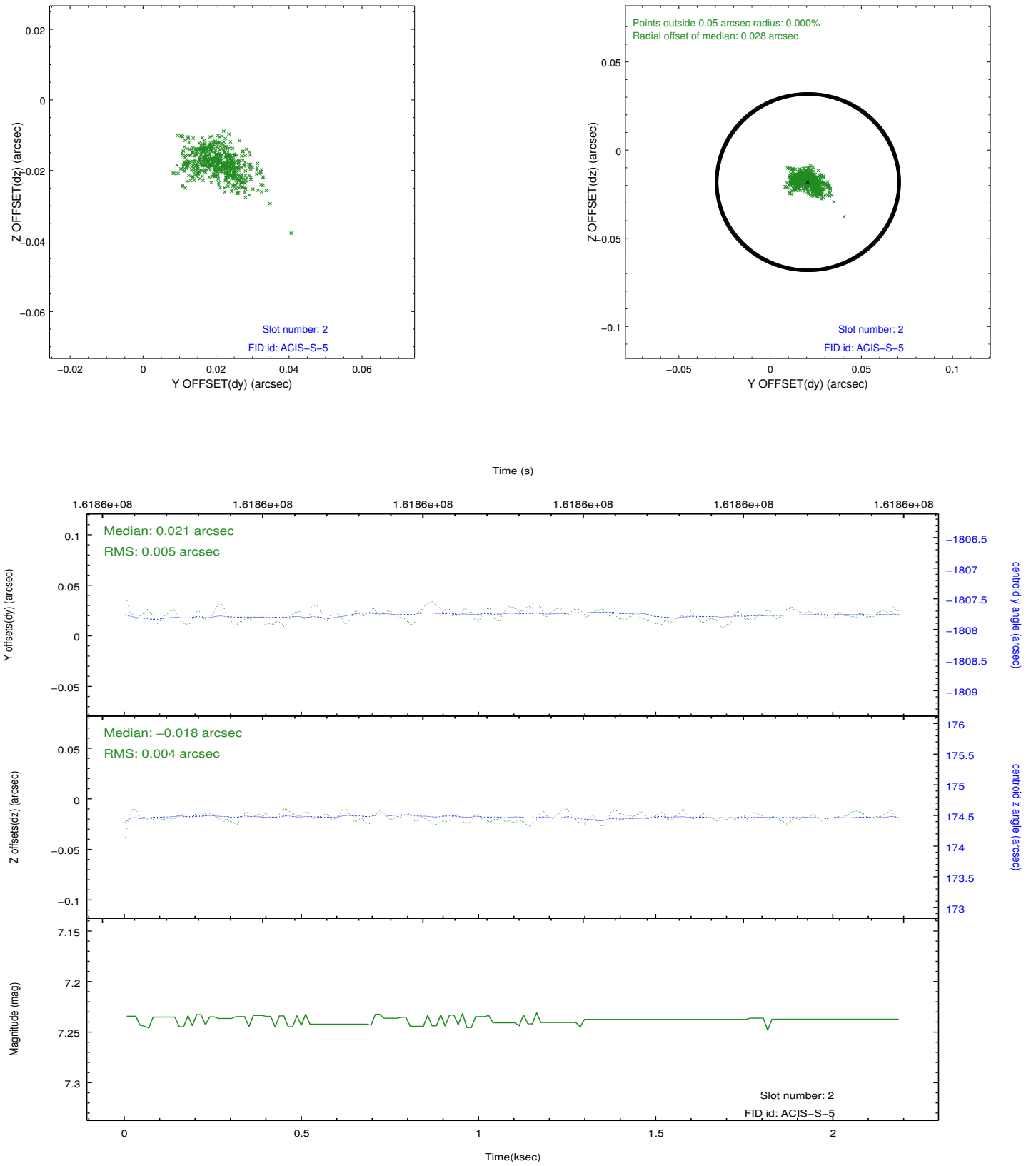
### 2.5.1 Slot 0



## 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)	2012.11.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.756

### A.2 Comments