

# V&V Reference Report

## L2 ASCDS Version : 8.5.1

Observation 5705 - L2 Version 3  
Chandra X-Ray Center

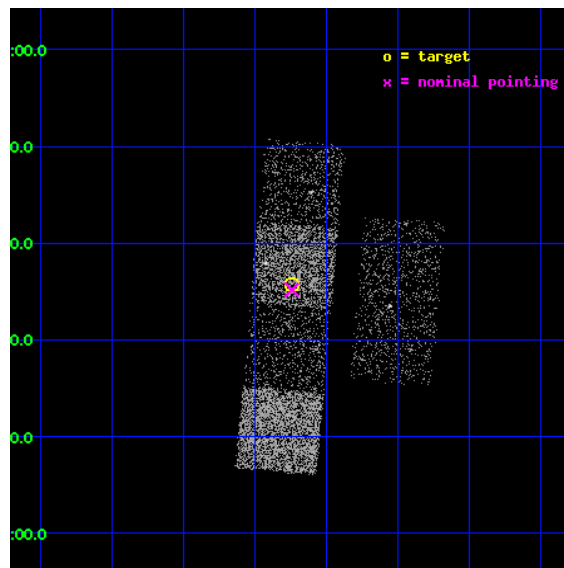
L2 Processing Date : Dec 18 2012

## 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

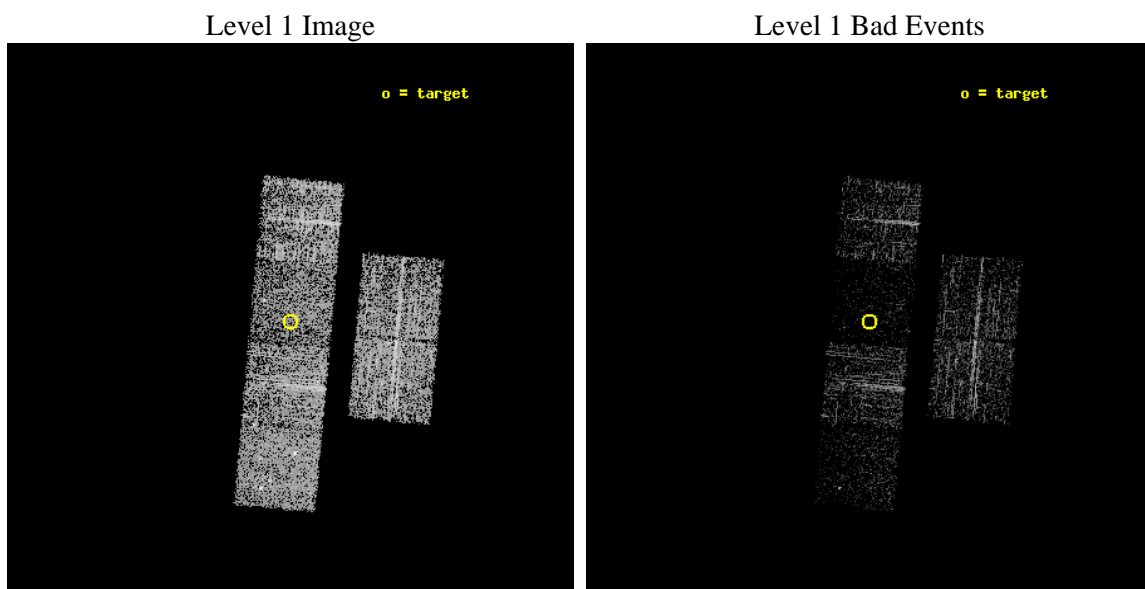
seq_num	701127	Sequence number
obs_id	5705	Observation id
title	A Uniform Chandra Survey of the Brightest and Most Extreme SDSS BALQSOs	Proposal title
observer	Dr. Scott Anderson	Principal investigator
object	SDSS J093514.72+033545.7	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	143.81125	Observer's specified target RA [deg]
dec_targ	3.596028	Observer's specified target Dec [deg]
ra_nom	143.81038800695	Nominal RA [deg]
dec_nom	3.5864278426897	Nominal Dec [deg]
roll_nom	275.11652580758	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1804.7999932766	Sum of GTIs [s]
livetime	1781.9465290416	Livetime [s]
ontime2	1804.7999932766	Sum of GTIs [s]
ontime3	1804.7999932766	Sum of GTIs [s]
ontime5	1804.7999932766	Sum of GTIs [s]
ontime6	1804.7999932766	Sum of GTIs [s]
ontime7	1804.7999932766	Sum of GTIs [s]
ontime8	1804.7999932766	Sum of GTIs [s]
l2events	10348	Number of level 2 events



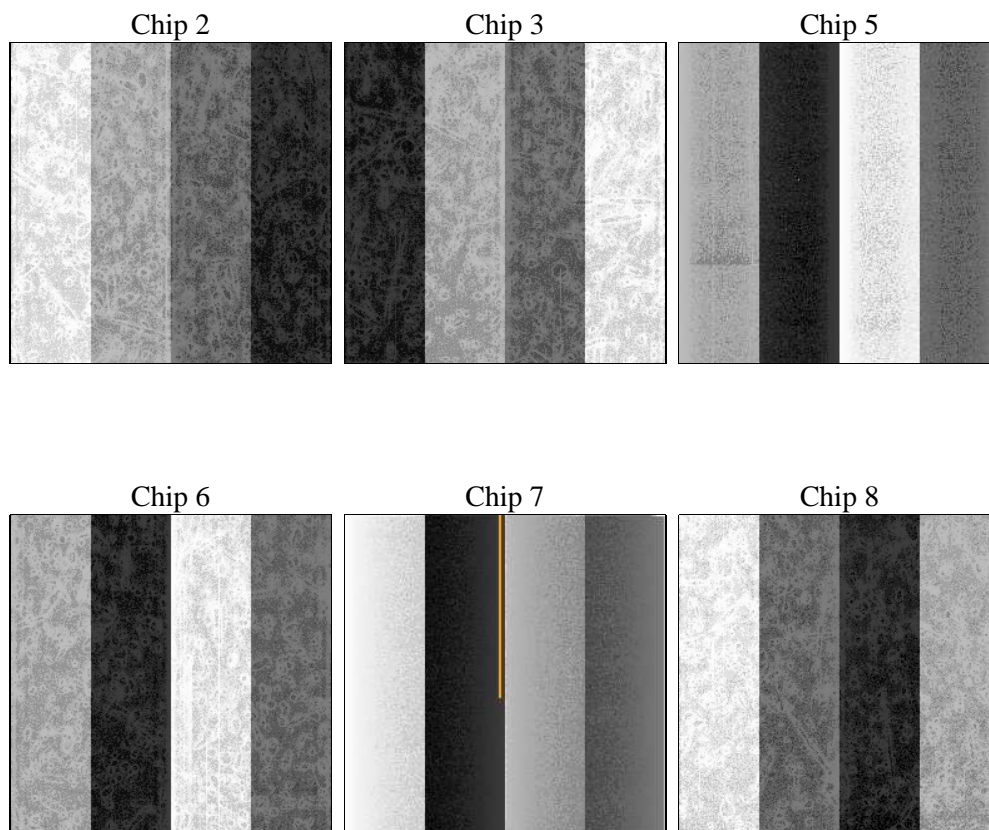
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1650.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1	Processing system revision	ontime	1804.7999932766	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime2	1804.7999932766	Sum of GTIs [s]
date	2012-12-18T05:44:20	Date and time of file creation	ontime3	1804.7999932766	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	1804.7999932766	Sum of GTIs [s]
			ontime6	1804.7999932766	Sum of GTIs [s]
			ontime7	1804.7999932766	Sum of GTIs [s]
			ontime8	1804.7999932766	Sum of GTIs [s]
			l1events	88731	Number of level 1 events

### 2.1.4 Events

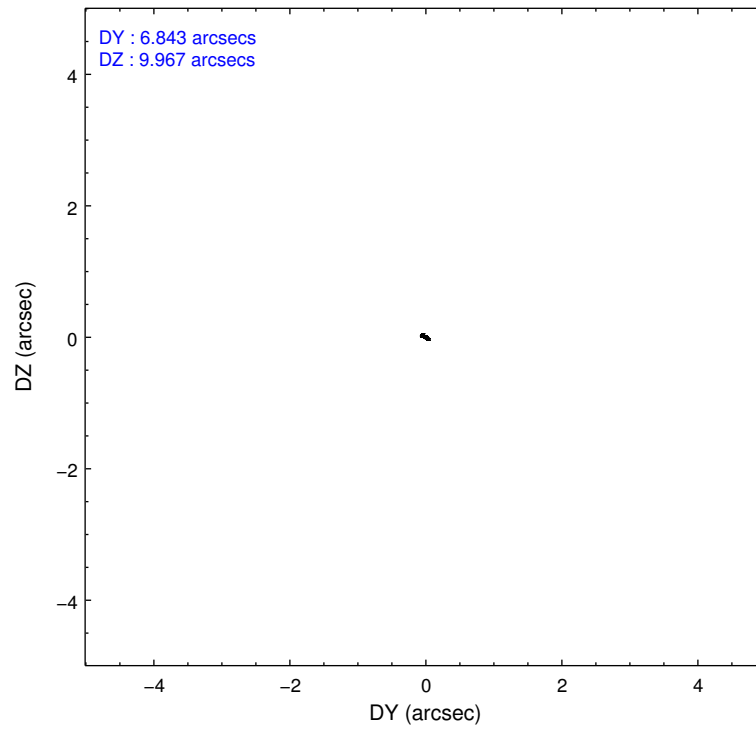
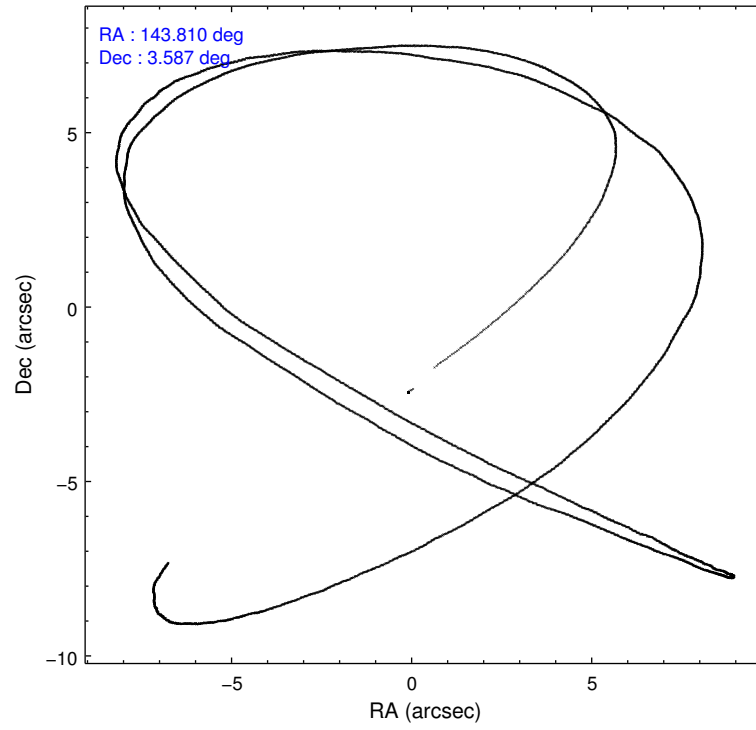
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	17370	14372	14587	15757	9021	17624
rejected events	16563	13681	9198	14824	5832	14871
rejected %	95%	95%	63%	94%	64%	84%

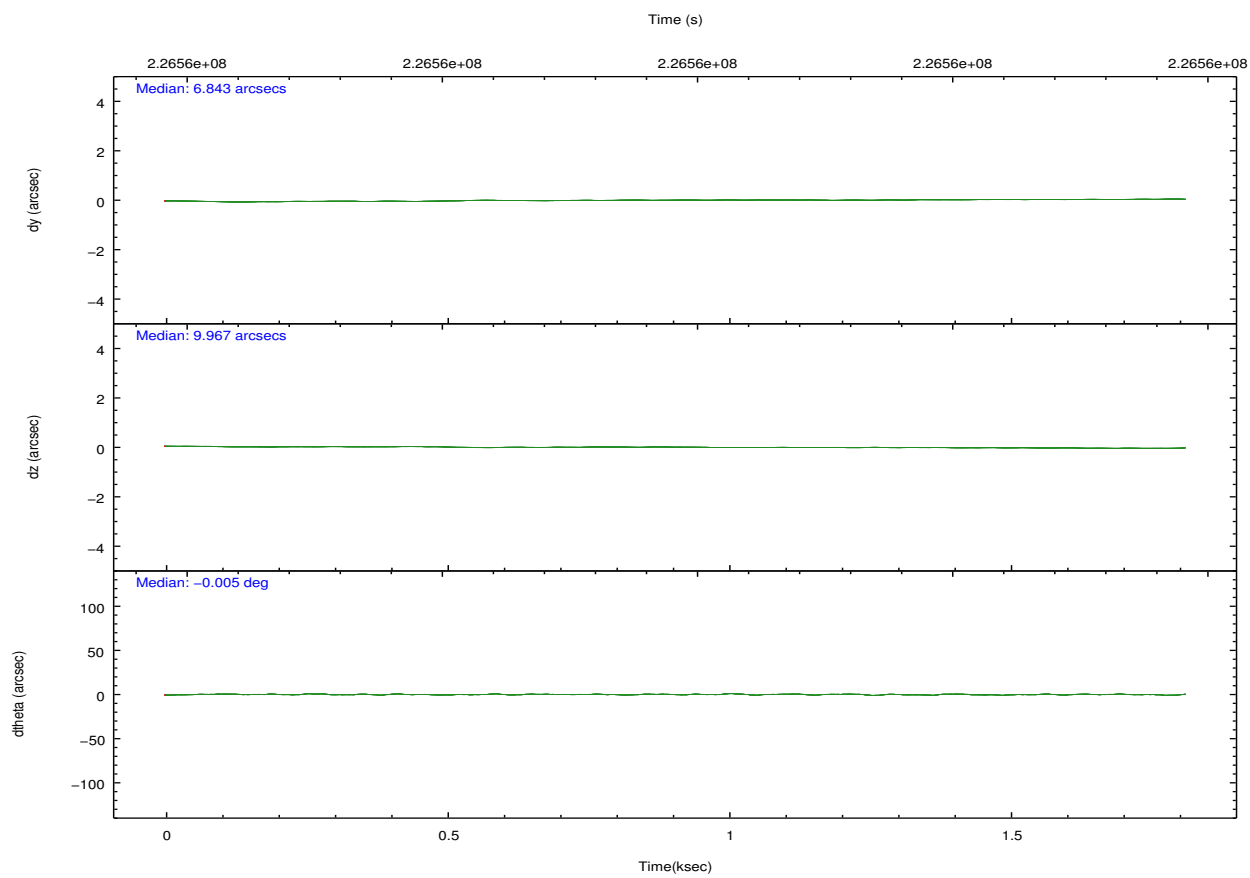
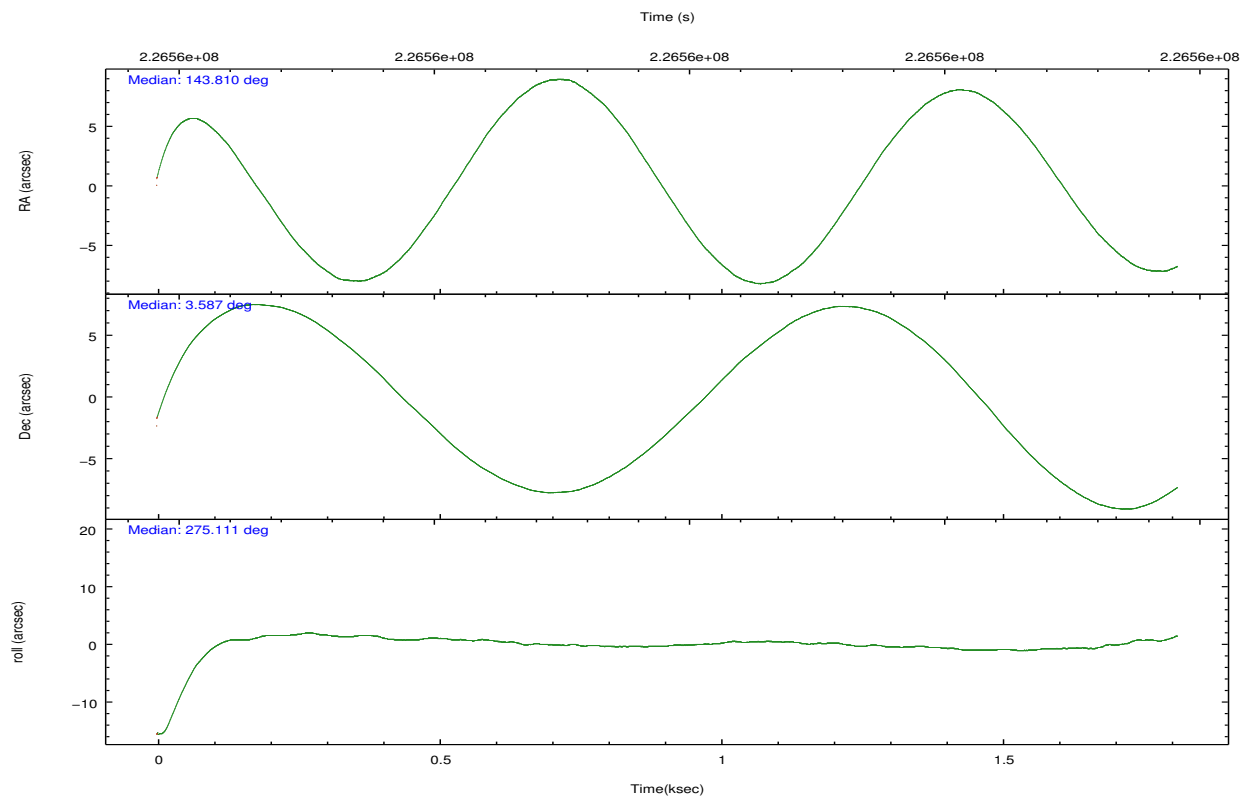
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	570	477	1666	633	689	1348
	3%	3%	11%	4%	7%	7%
grade 1 events	9	8	40	12	11	19
	0%	0%	0%	0%	0%	0%
grade 2 events	293	242	2855	333	1280	1119
	1%	1%	19%	2%	14%	6%
grade 3 events	128	150	478	164	606	520
	0%	1%	3%	1%	6%	2%
grade 4 events	144	136	443	143	554	478
	0%	0%	3%	0%	6%	2%
grade 5 events	254	278	1172	321	946	538
	1%	1%	8%	2%	10%	3%
grade 6 events	195	208	3577	233	2236	1235
	1%	1%	24%	1%	24%	7%
grade 7 events	15777	12873	4356	13918	2699	12367
	90%	89%	29%	88%	29%	70%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	143.794414	143.8103880069496	Subarray requested	NONE	NONE
[deg] Pointing Dec	3.608455	3.58642784268974	Alternating exposures requested	N	N
[deg] Pointing Roll	274.960997	275.1165258075794	[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)	226559711.184000	226558048.65408			
Observation start date	2005-03-07T05:14:07	2005-03-07T04:47:28			
[s] Observation end time (MET)	226561361.184000	226563220.80431			
Observation end date	2005-03-07T05:41:37	2005-03-07T06:13:40			
Read mode	TIMED	TIMED			

## 2.3 Aspect





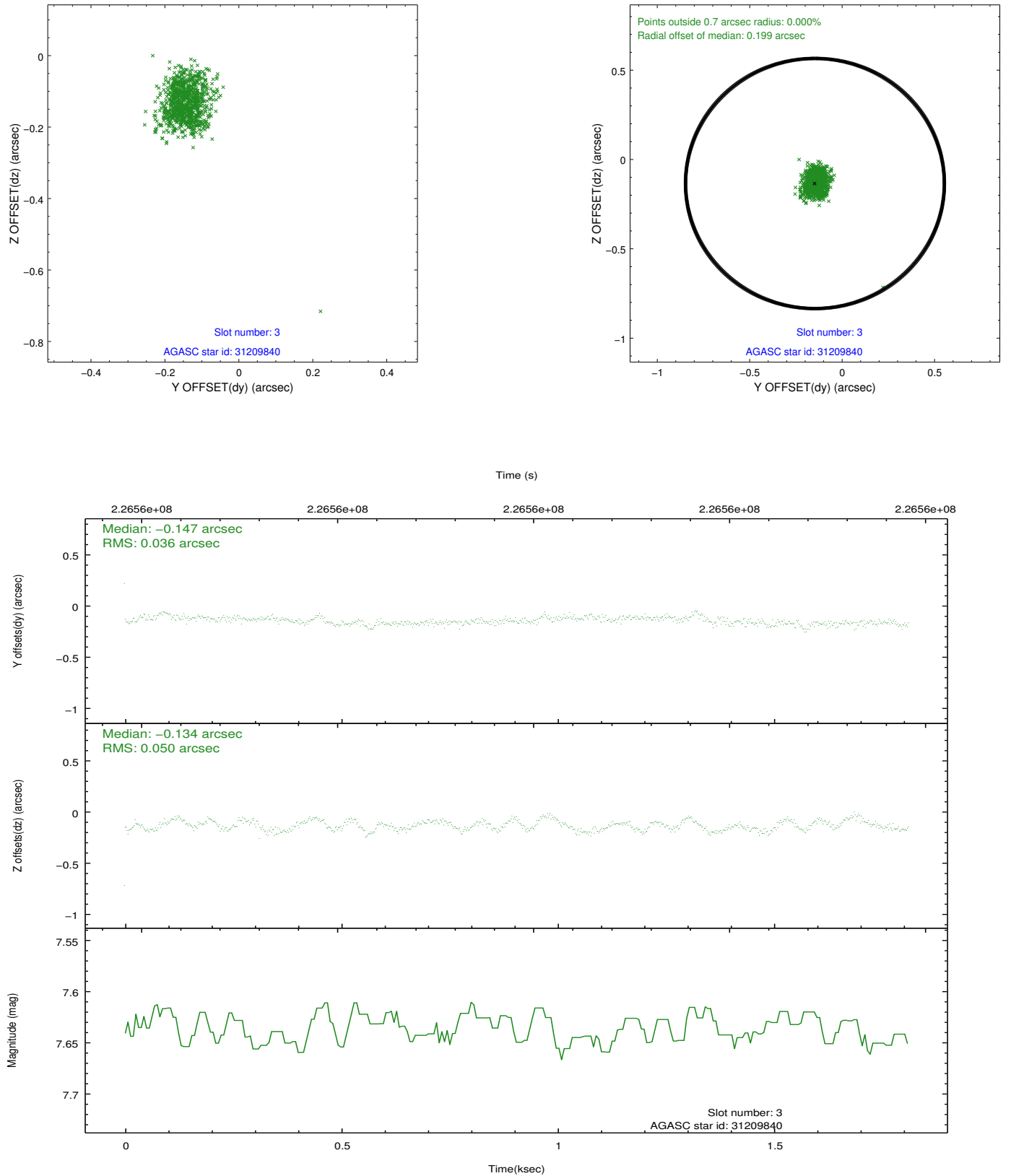
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	442	-0.064	-0.039	0.006	0.010	0.000000	0.000000	-759.62	-1731.21
1	FID	ACIS-S-4	7.20	443	0.061	0.032	0.007	0.010	0.000000	0.000000	2152.11	173.63
2	FID	ACIS-S-6	7.34	442	-0.025	0.013	0.007	0.010	0.000000	0.000000	407.03	815.11
3	GUIDE	31209840	7.64	885	-0.147	-0.134	0.061	0.096	143.770519	4.039511	-1553.03	48.79
4	GUIDE	31210104	8.53	885	-0.129	0.092	0.068	0.107	143.273316	4.171416	-2182.26	-1688.24
5	GUIDE	31212136	8.88	885	0.014	0.020	0.086	0.127	143.199262	3.694680	-496.69	-2105.29
6	GUIDE	31212688	9.18	885	0.127	0.128	0.086	0.129	144.208430	3.081988	2016.56	1317.23
7	GUIDE	31211088	8.57	884	0.136	-0.102	0.071	0.124	143.184856	2.970230	2102.21	-2379.99

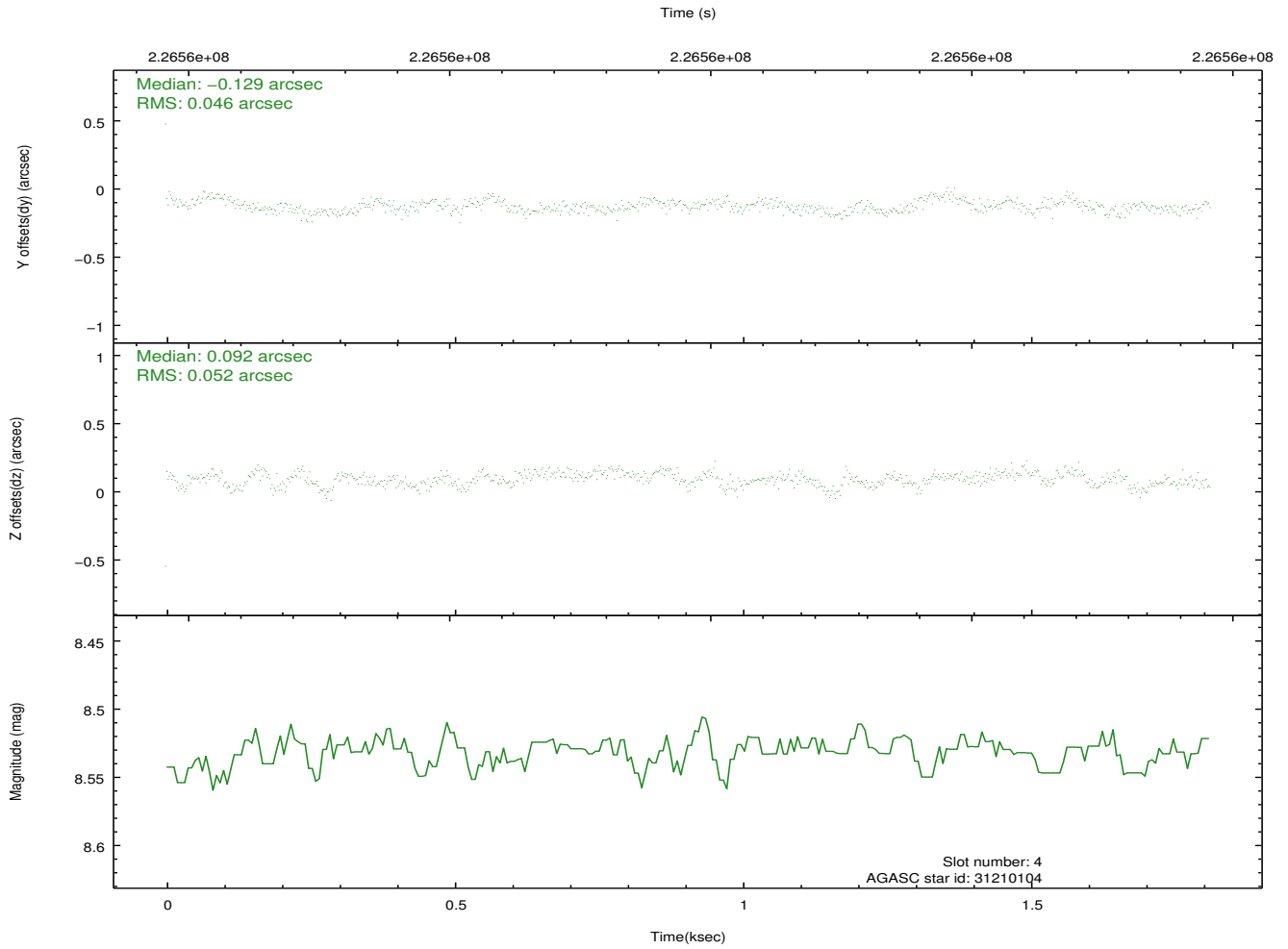
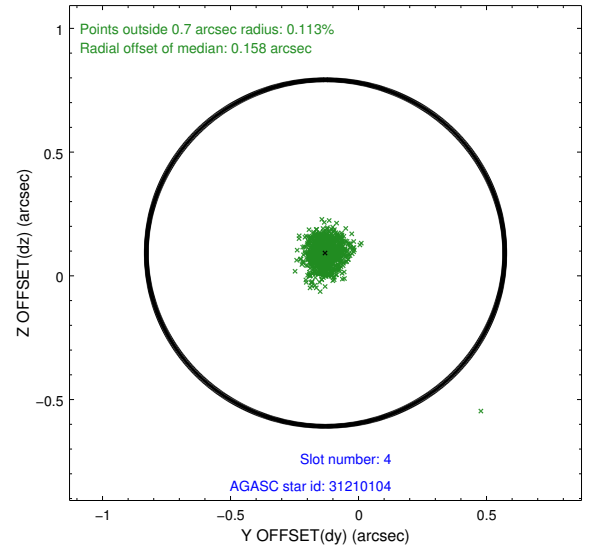
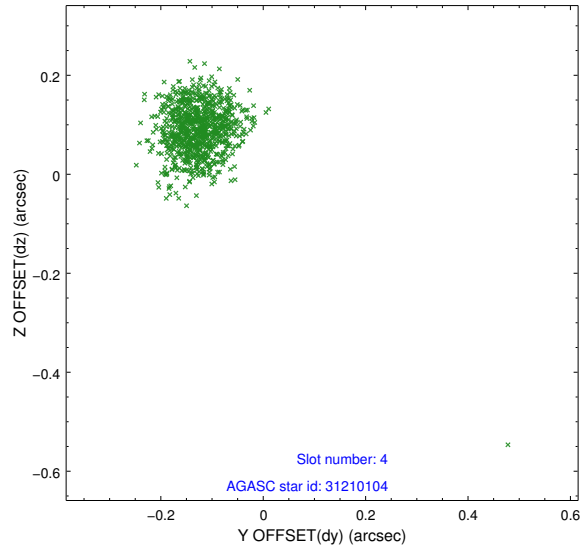


## 2.4 Star Slots

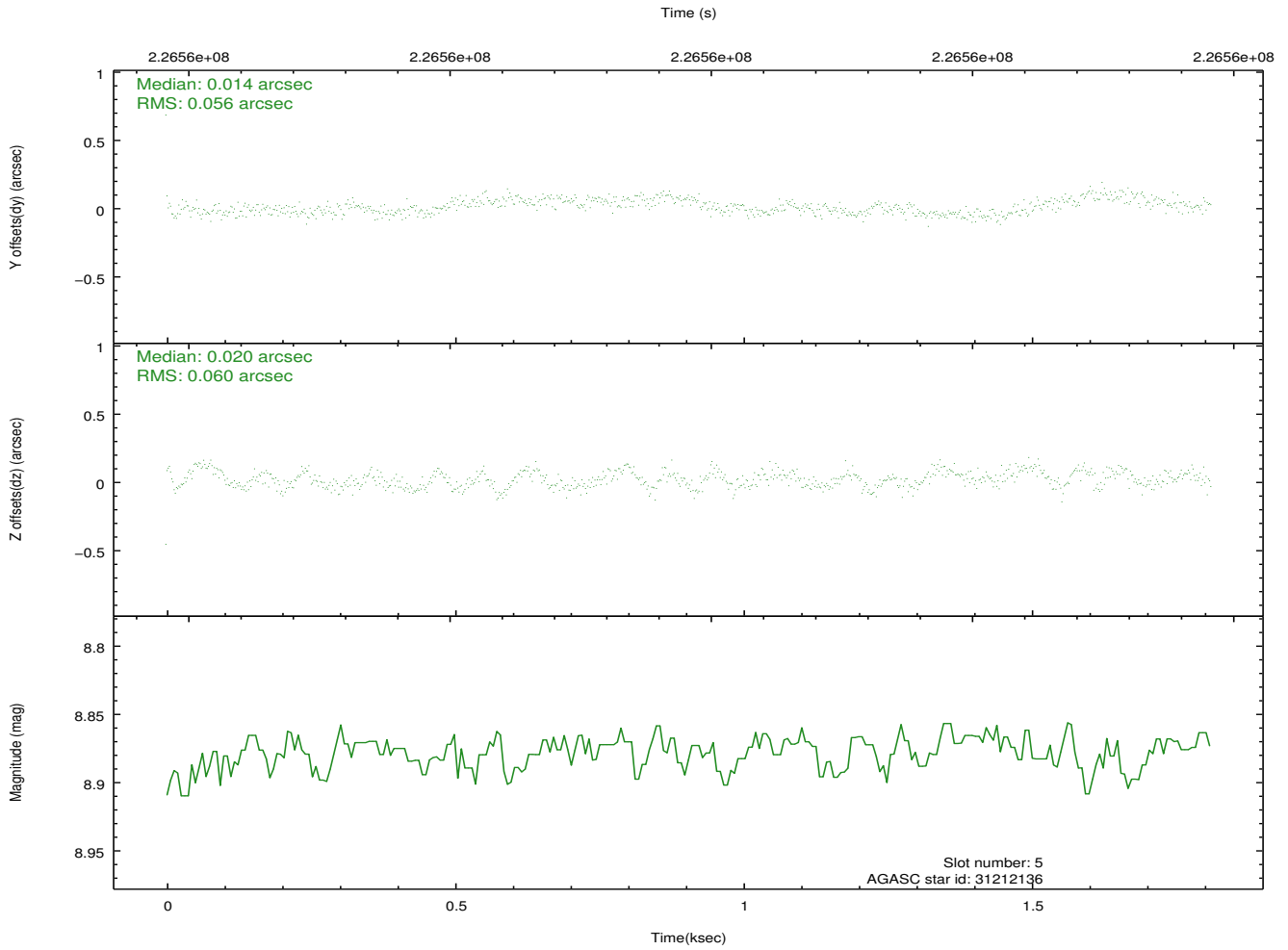
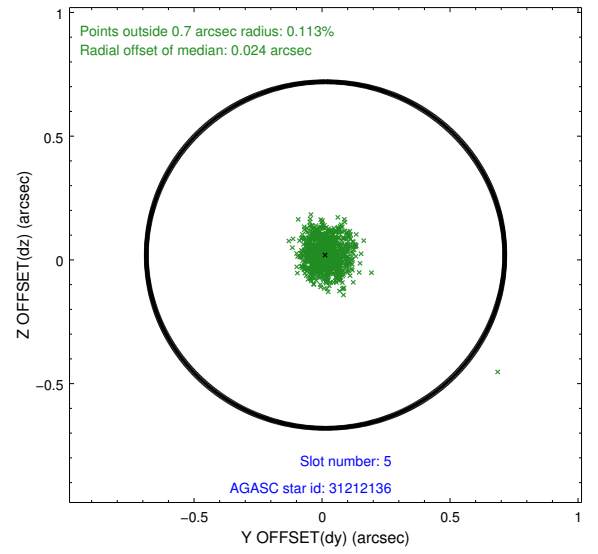
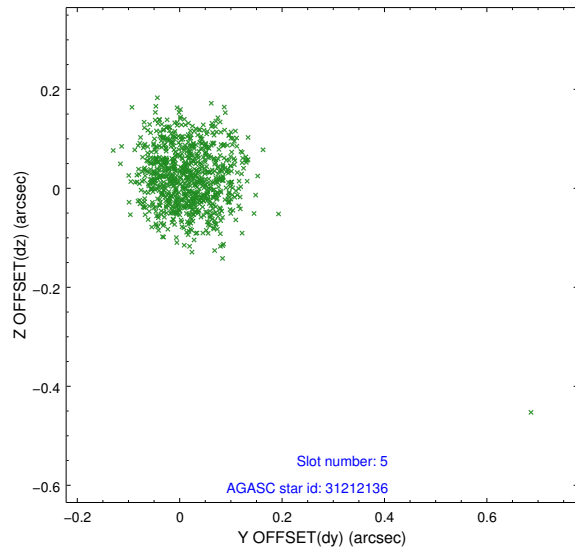
### 2.4.1 Slot 3



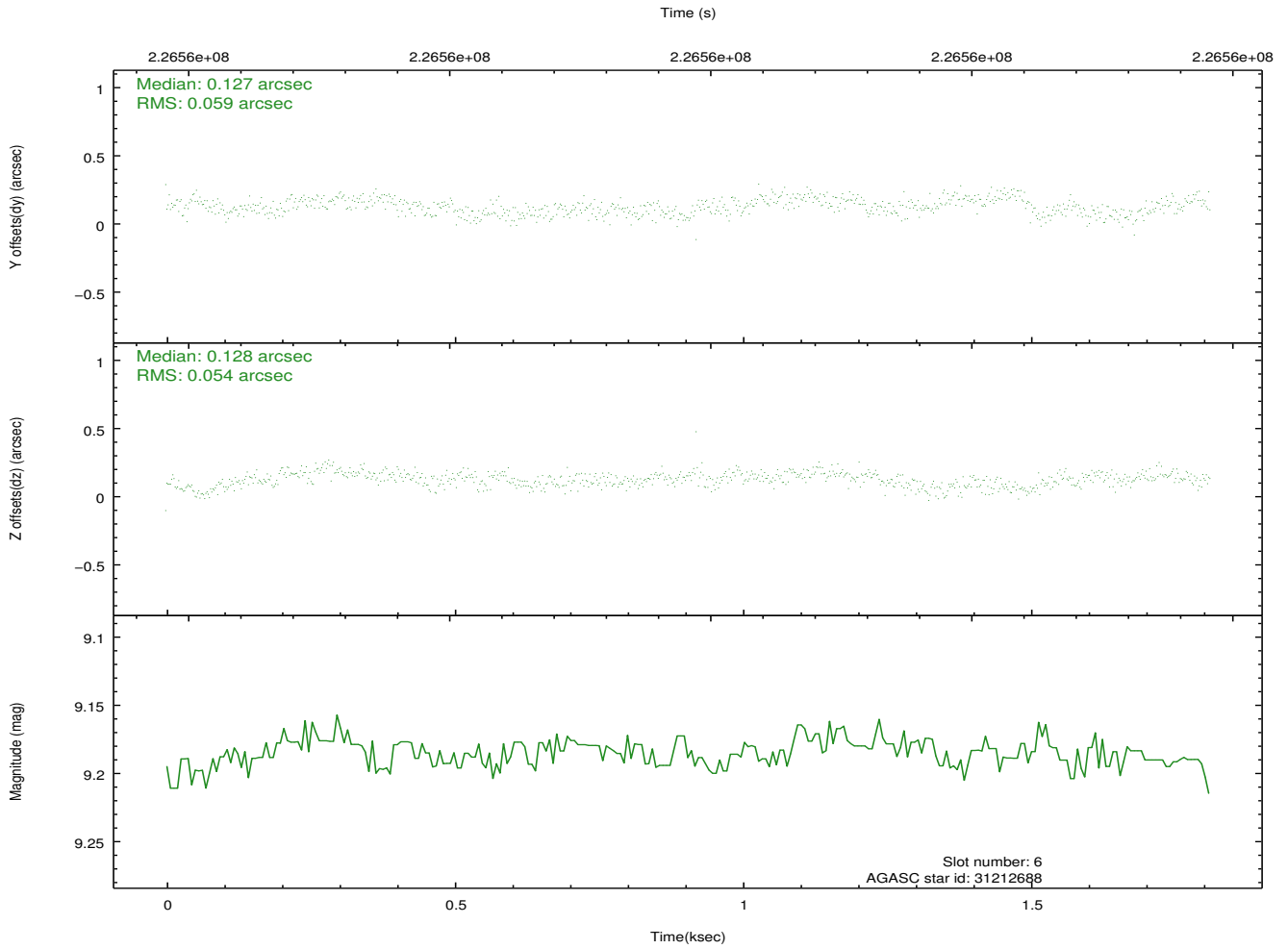
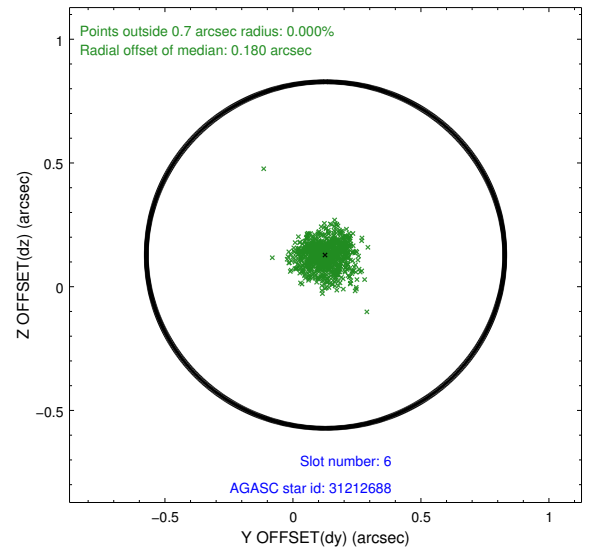
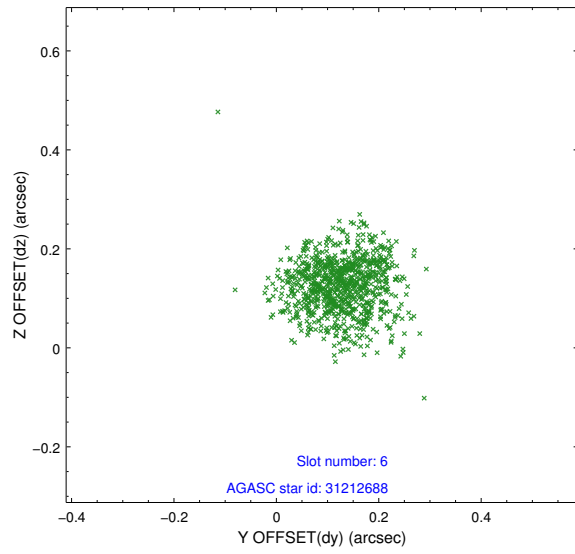
## 2.4.2 Slot 4



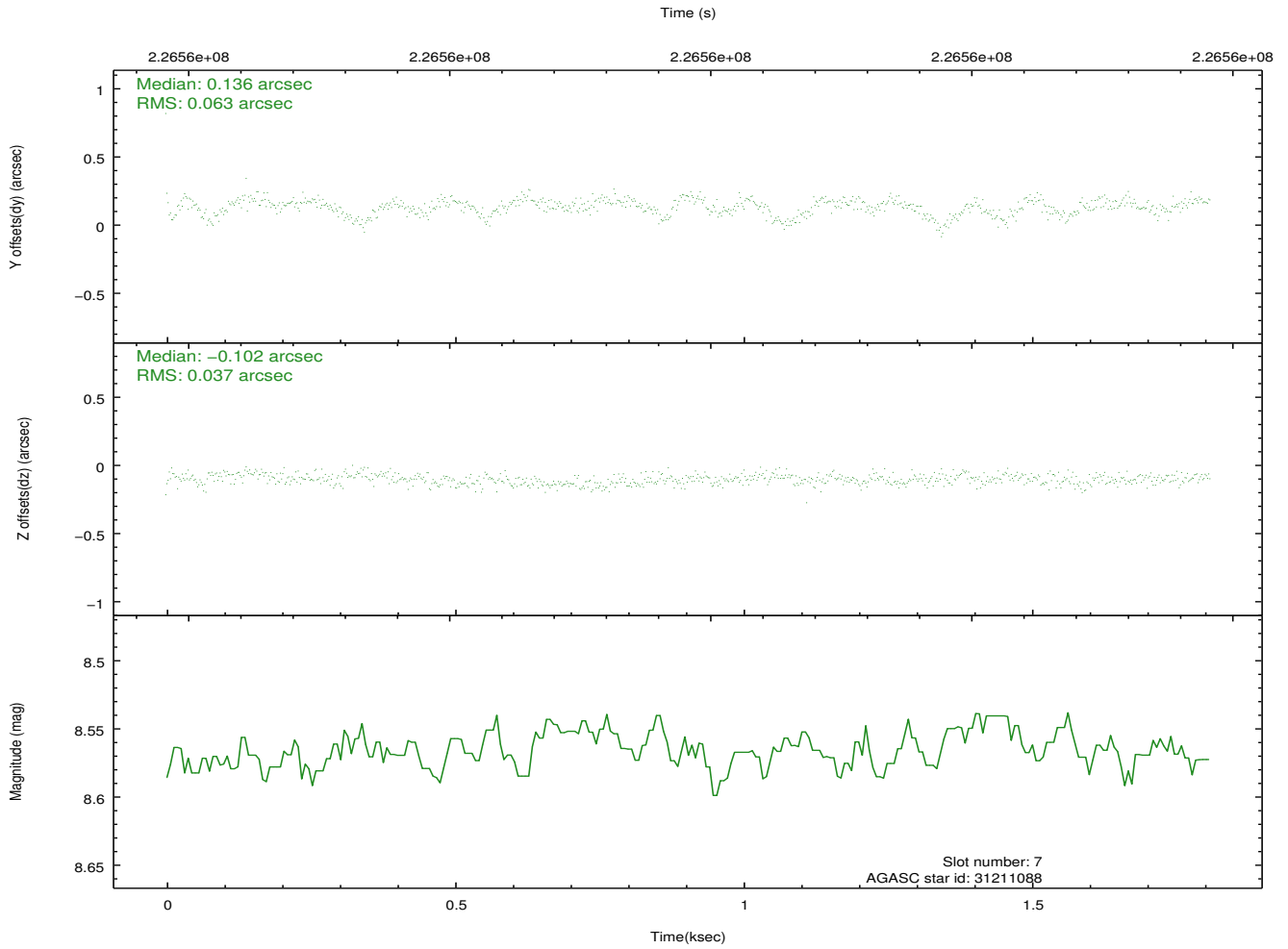
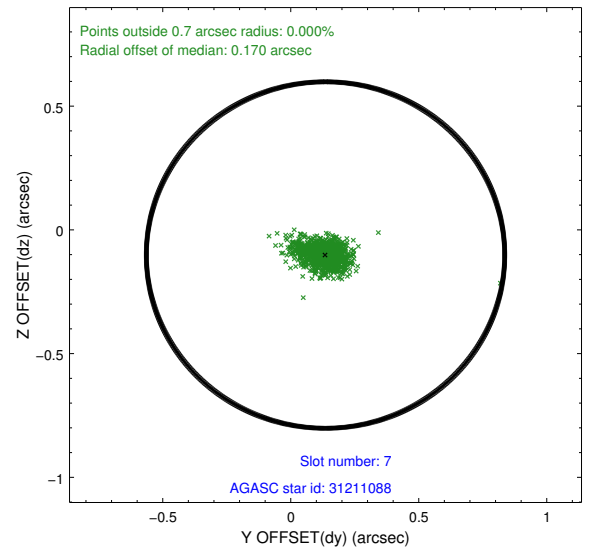
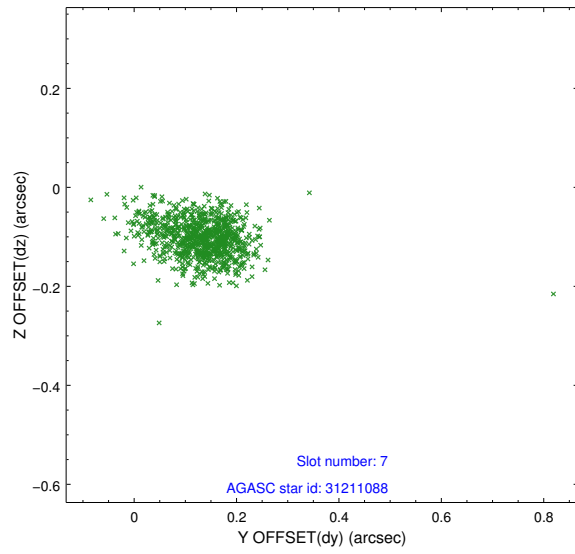
### 2.4.3 Slot 5



## 2.4.4 Slot 6

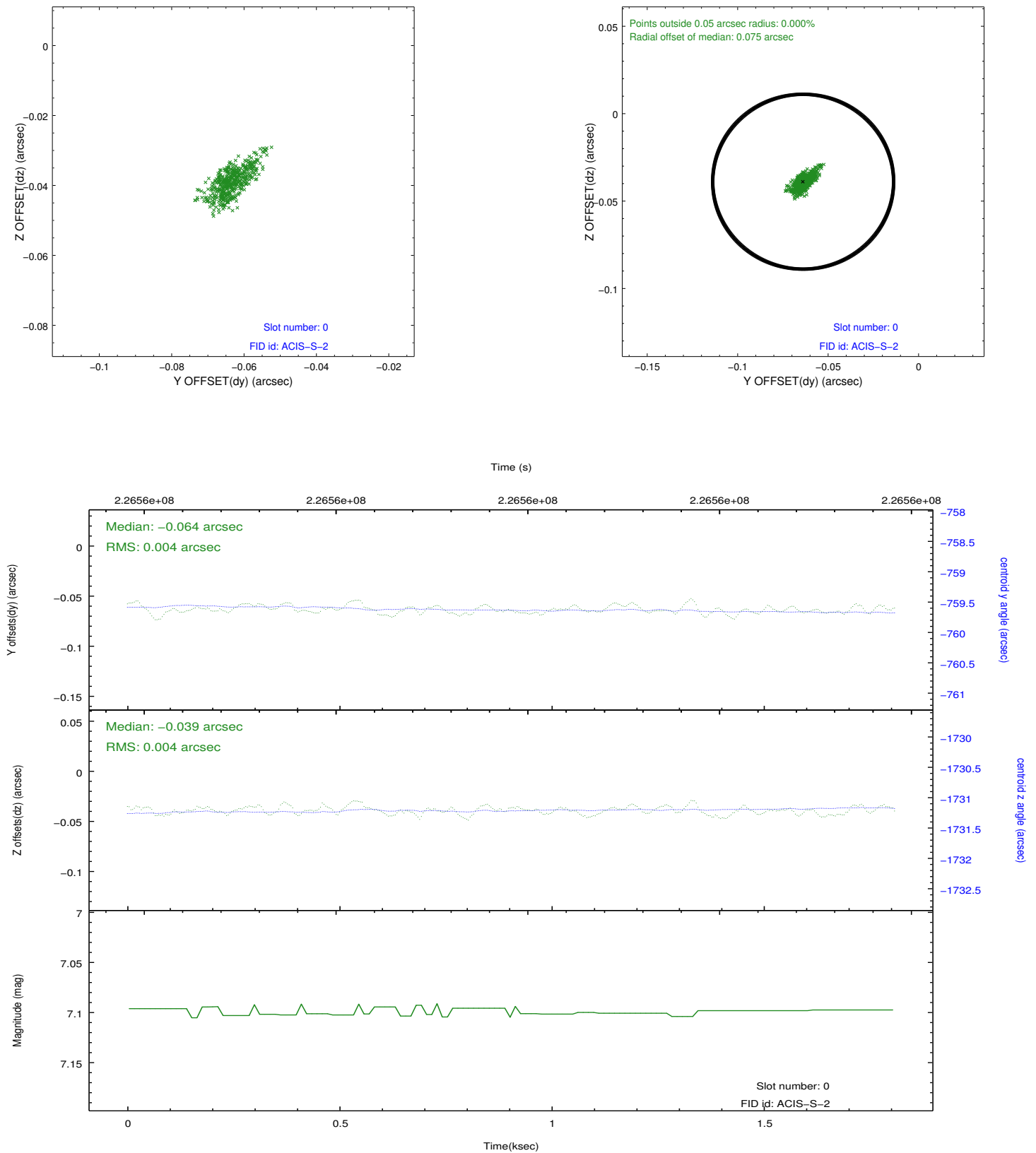


## 2.4.5 Slot 7

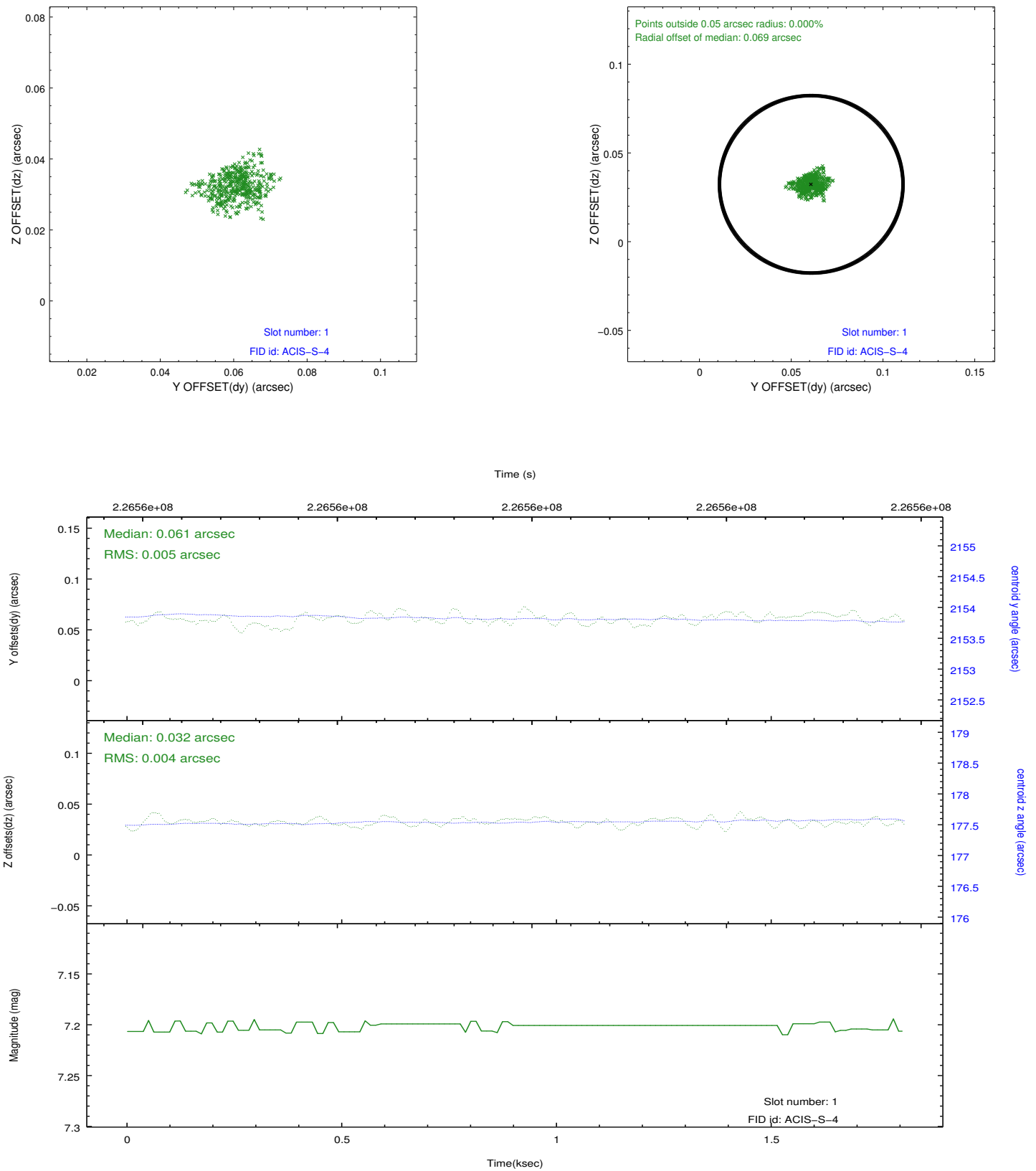


## 2.5 FID Slots

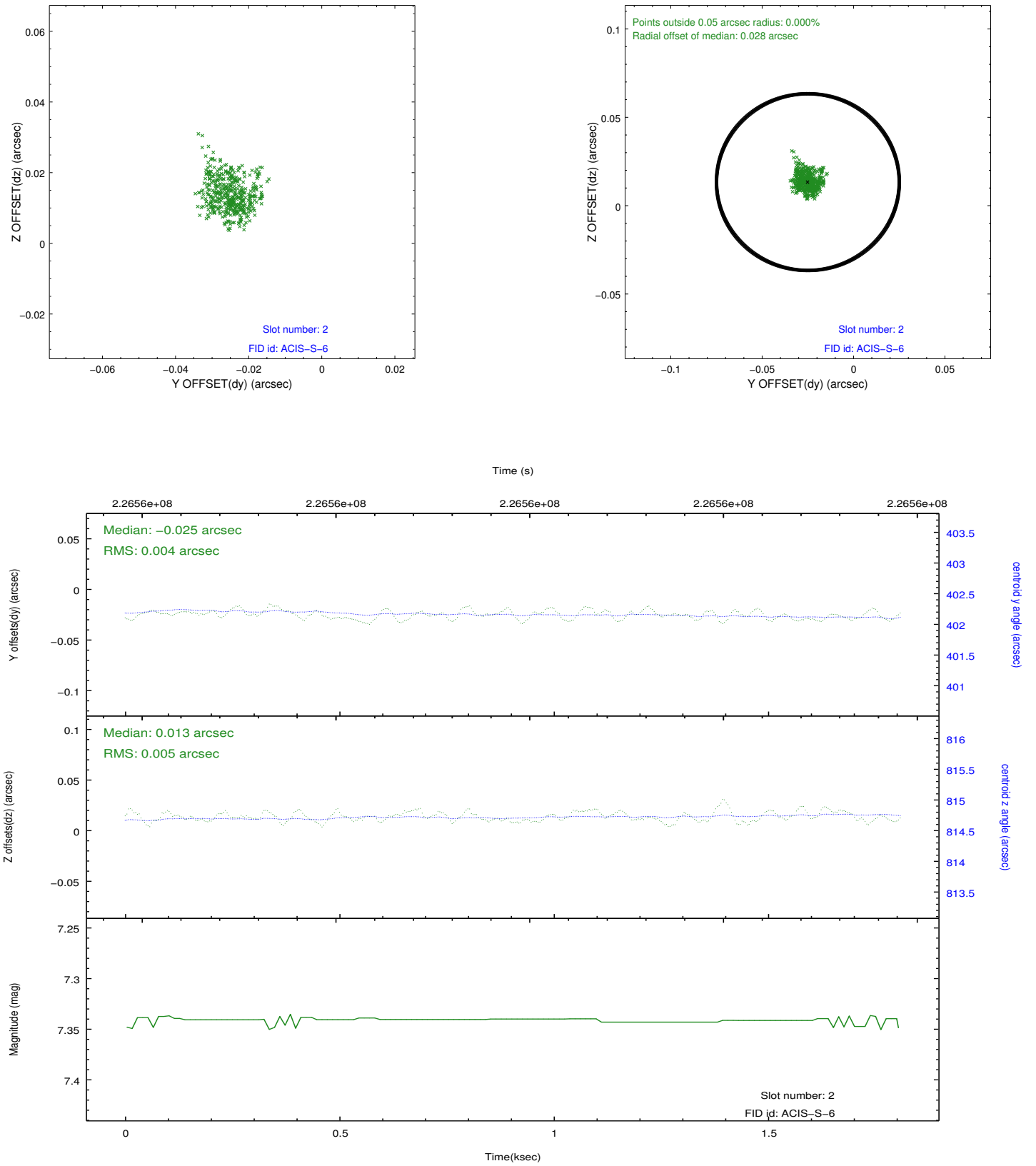
### 2.5.1 Slot 0



## 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)	2013.01.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.804799

### A.2 Comments