

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4043 - L2 Version 3  
Chandra X-Ray Center

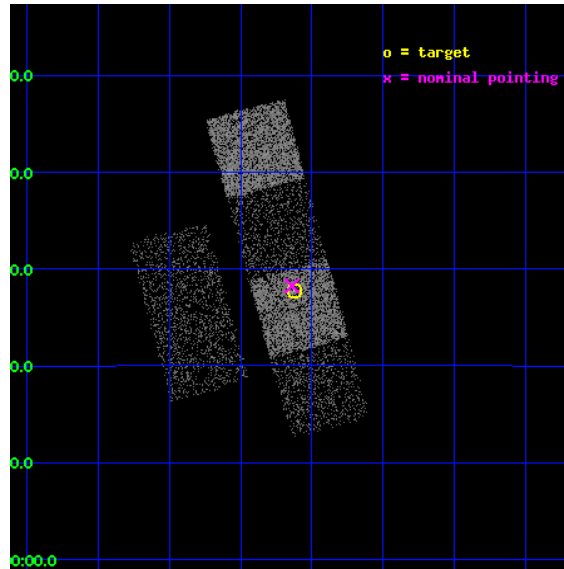
L2 Processing Date : Oct 24 2012

## 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

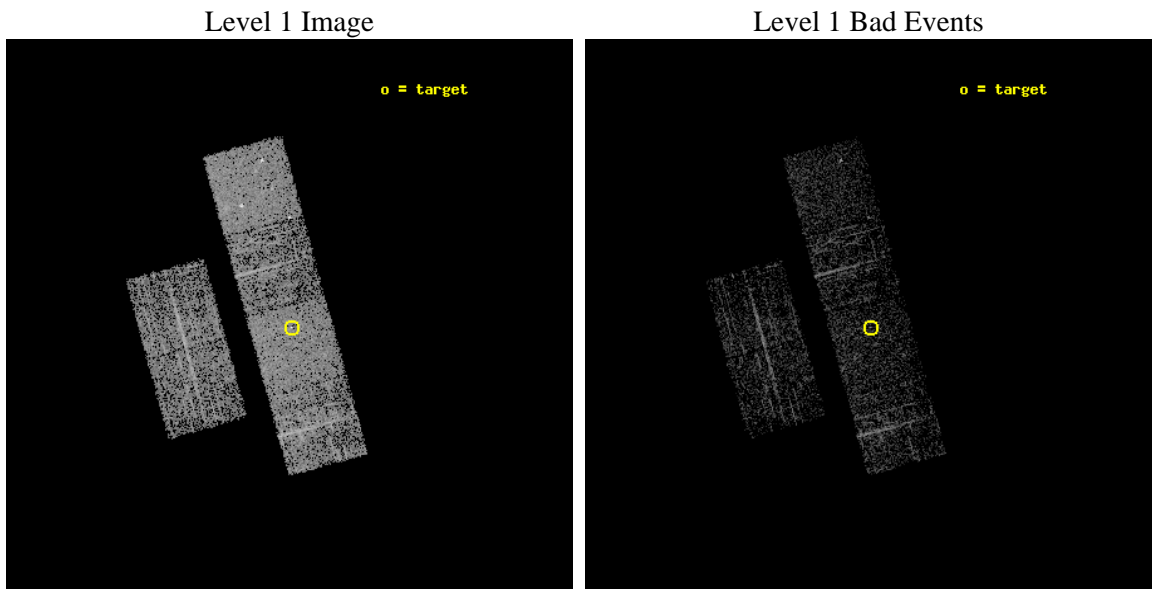
seq_num	700722	Sequence number
obs_id	4043	Observation id
title	WHY DO WE SEE BROAD LINES IN X-RAY ABSORBED AGN?	Proposal title
observer	Dr. Belinda Wilkes	Principal investigator
object	2MASS135037-063216	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.655833	Observer's specified target RA [deg]
dec_targ	-6.537639	Observer's specified target Dec [deg]
ra_nom	207.6600492491	Nominal RA [deg]
dec_nom	-6.529099699186	Nominal Dec [deg]
roll_nom	74.652668126575	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1564.7999941707	Sum of GTIs [s]
livetime	1544.985554435	Livetime [s]
ontime2	1564.7999941707	Sum of GTIs [s]
ontime3	1564.7999941707	Sum of GTIs [s]
ontime5	1564.7999941707	Sum of GTIs [s]
ontime6	1564.7999941707	Sum of GTIs [s]
ontime7	1564.7999941707	Sum of GTIs [s]
ontime8	1564.7999941707	Sum of GTIs [s]
l2events	16129	Number of level 2 events



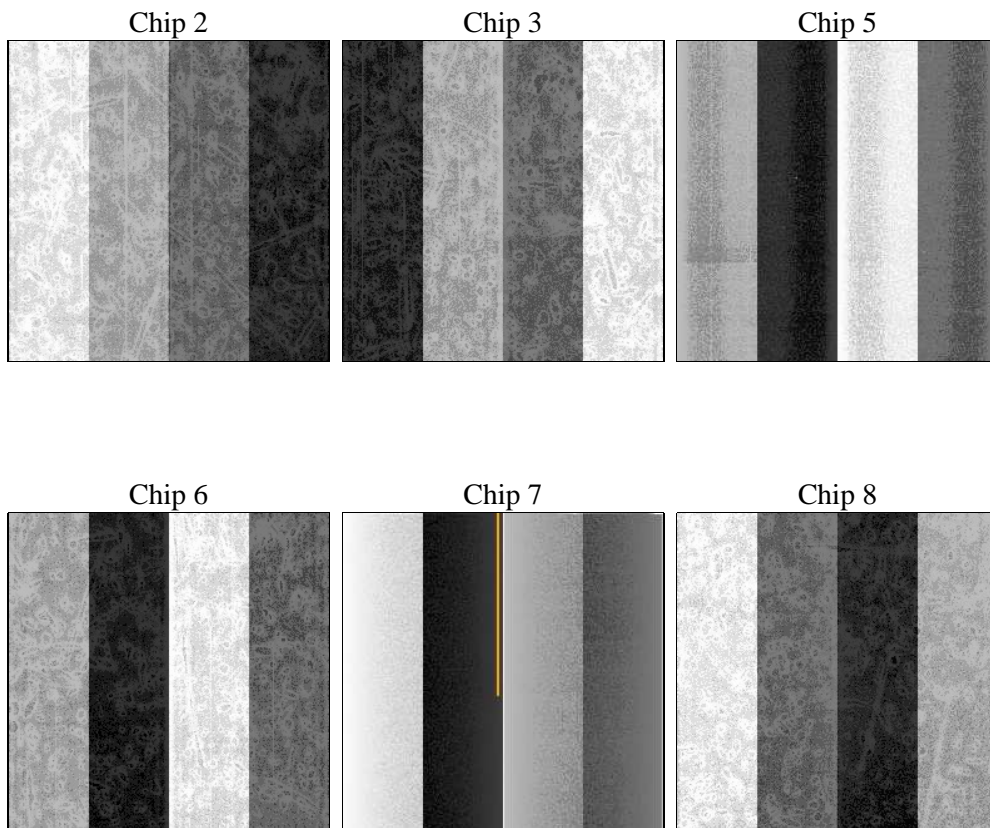
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1600.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1564.7999941707	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	1564.7999941707	Sum of GTIs [s]
date	2012-10-24T12:48:50	Date and time of file creation	ontime3	1564.7999941707	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	1564.7999941707	Sum of GTIs [s]
			ontime6	1564.7999941707	Sum of GTIs [s]
			ontime7	1564.7999941707	Sum of GTIs [s]
			ontime8	1564.7999941707	Sum of GTIs [s]
			l1events	72011	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	9928	9371	15708	10148	14127	12729
rejected events	8746	8245	8294	8963	8275	9985
rejected %	88%	87%	52%	88%	58%	78%

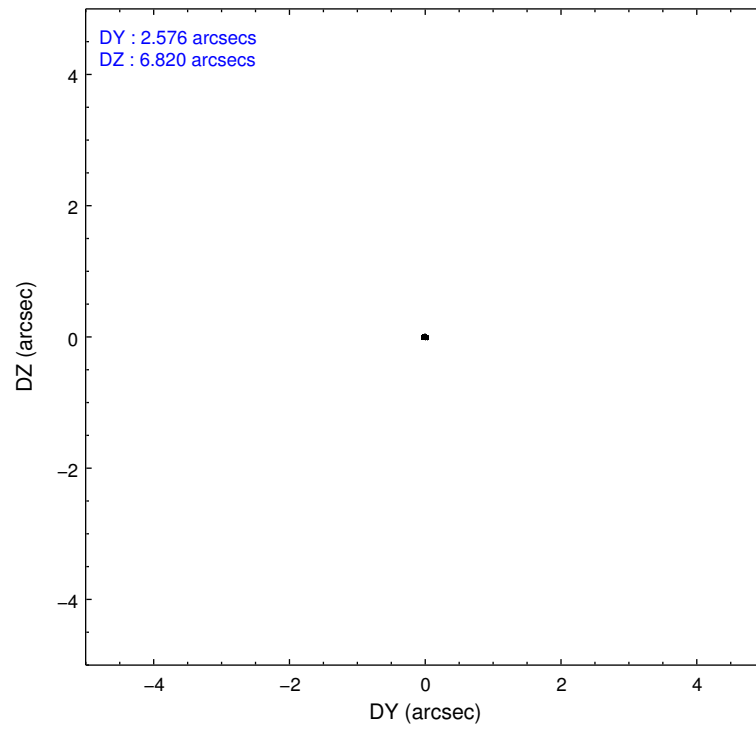
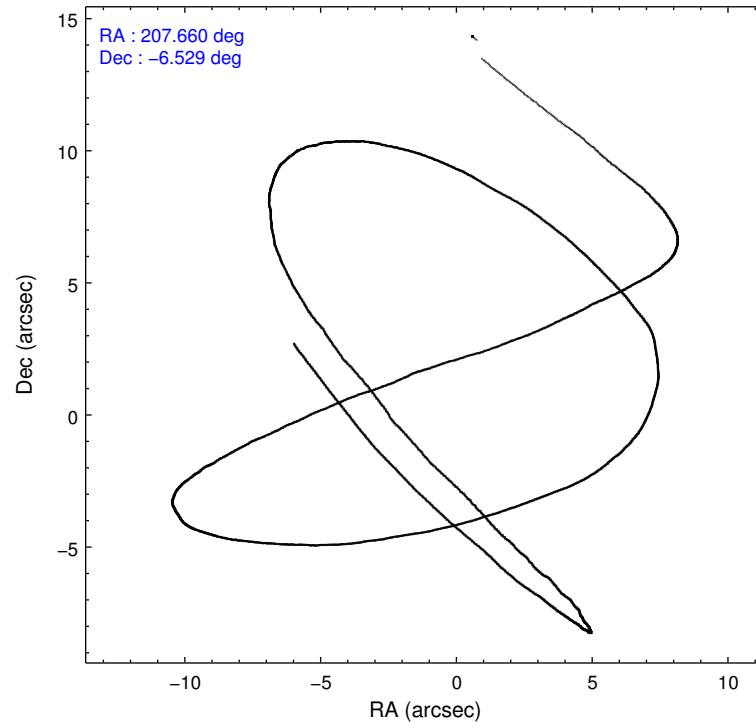
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	549	496	1169	481	603	818
	5%	5%	7%	4%	4%	6%
grade 1 events	7	6	59	7	19	6
	0%	0%	0%	0%	0%	0%
grade 2 events	215	236	2252	236	1142	612
	2%	2%	14%	2%	8%	4%
grade 3 events	131	108	306	101	583	290
	1%	1%	1%	0%	4%	2%
grade 4 events	122	108	308	136	563	262
	1%	1%	1%	1%	3%	2%
grade 5 events	360	452	1184	465	1338	581
	3%	4%	7%	4%	9%	4%
grade 6 events	169	182	3401	235	2999	768
	1%	1%	21%	2%	21%	6%
grade 7 events	8375	7783	7029	8487	6880	9392
	84%	83%	44%	83%	48%	73%

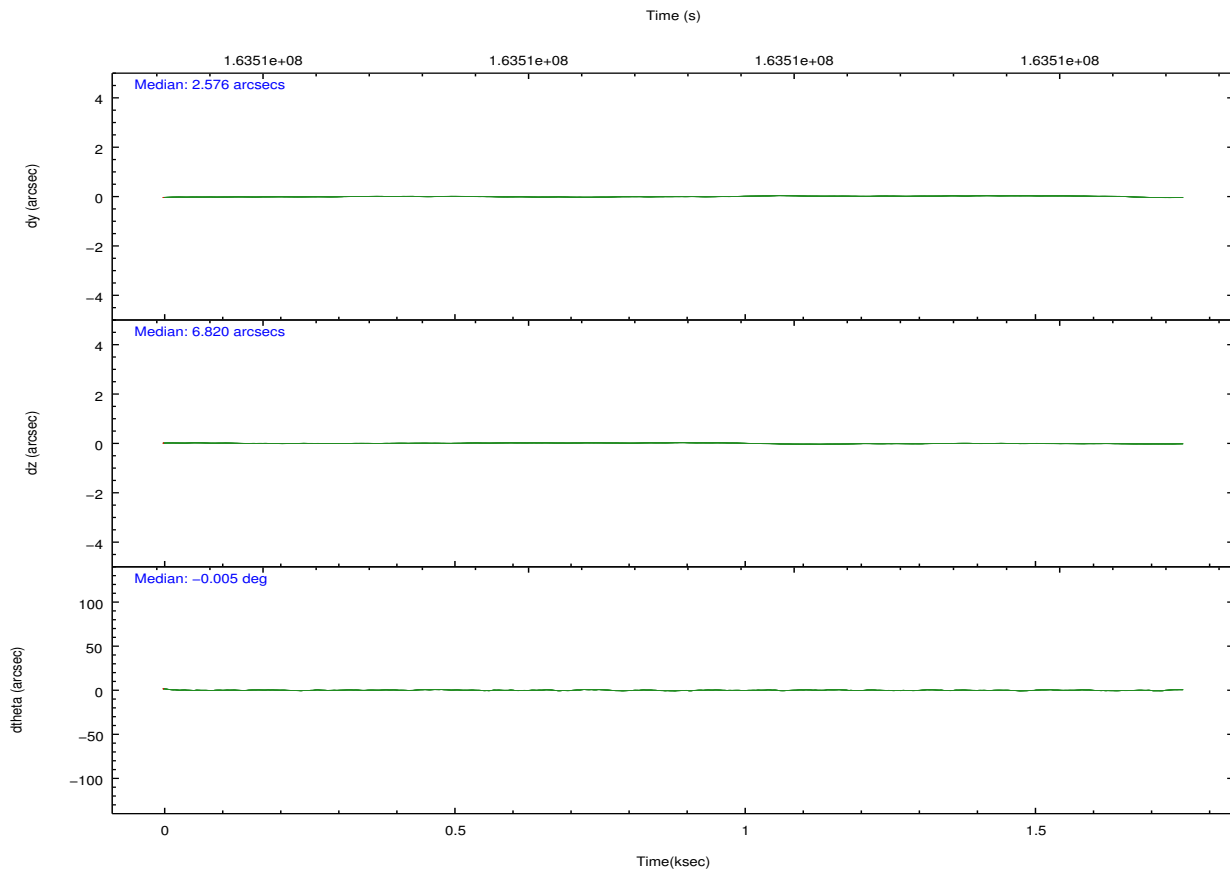
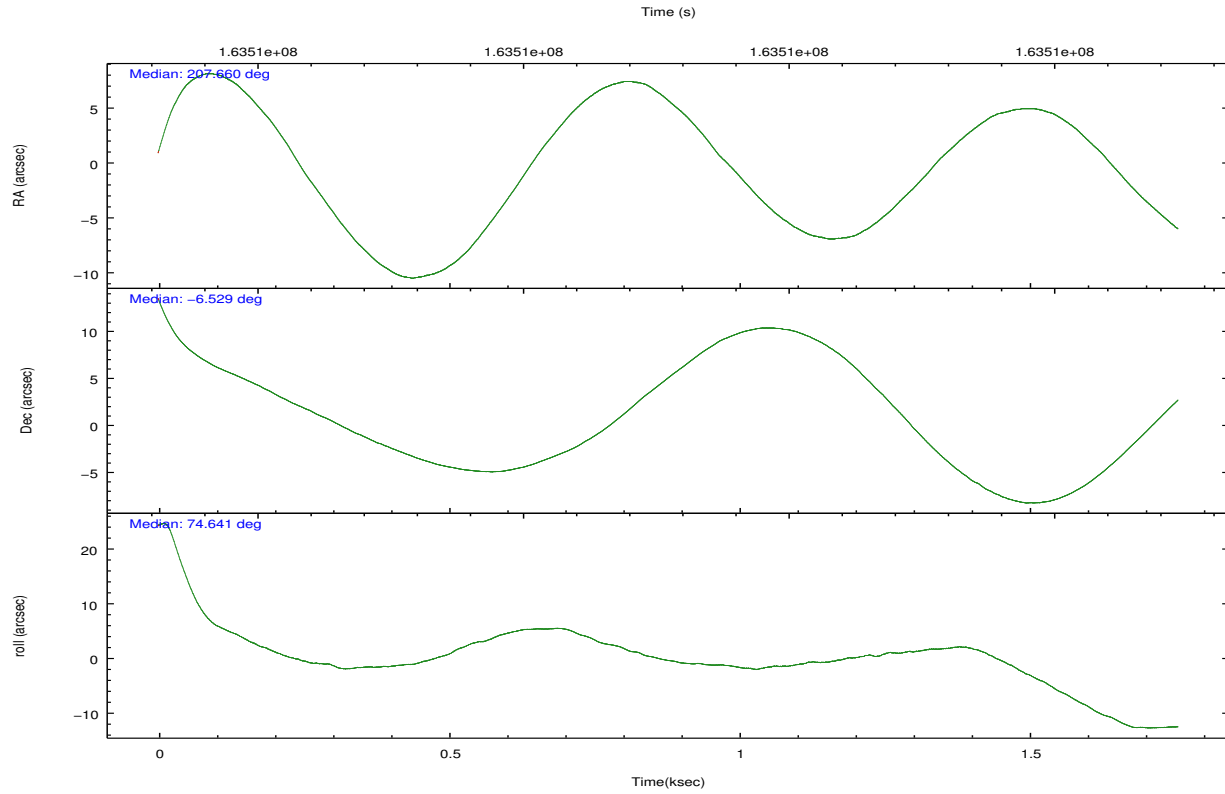
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	207.667310	207.6600492490977
[deg] Pointing Dec	-6.555154	-6.52909969918598
[deg] Pointing Roll	74.496633	74.65266812657485
[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)	163509546.184000	163508582.60814
Observation start date	2003-03-08T11:18:02	2003-03-08T11:03:02
[s] Observation end time (MET)	163511146.184000	163511606.87077
Observation end date	2003-03-08T11:44:42	2003-03-08T11:53:26
Read mode	TIMED	TIMED

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	3.2

## 2.3 Aspect





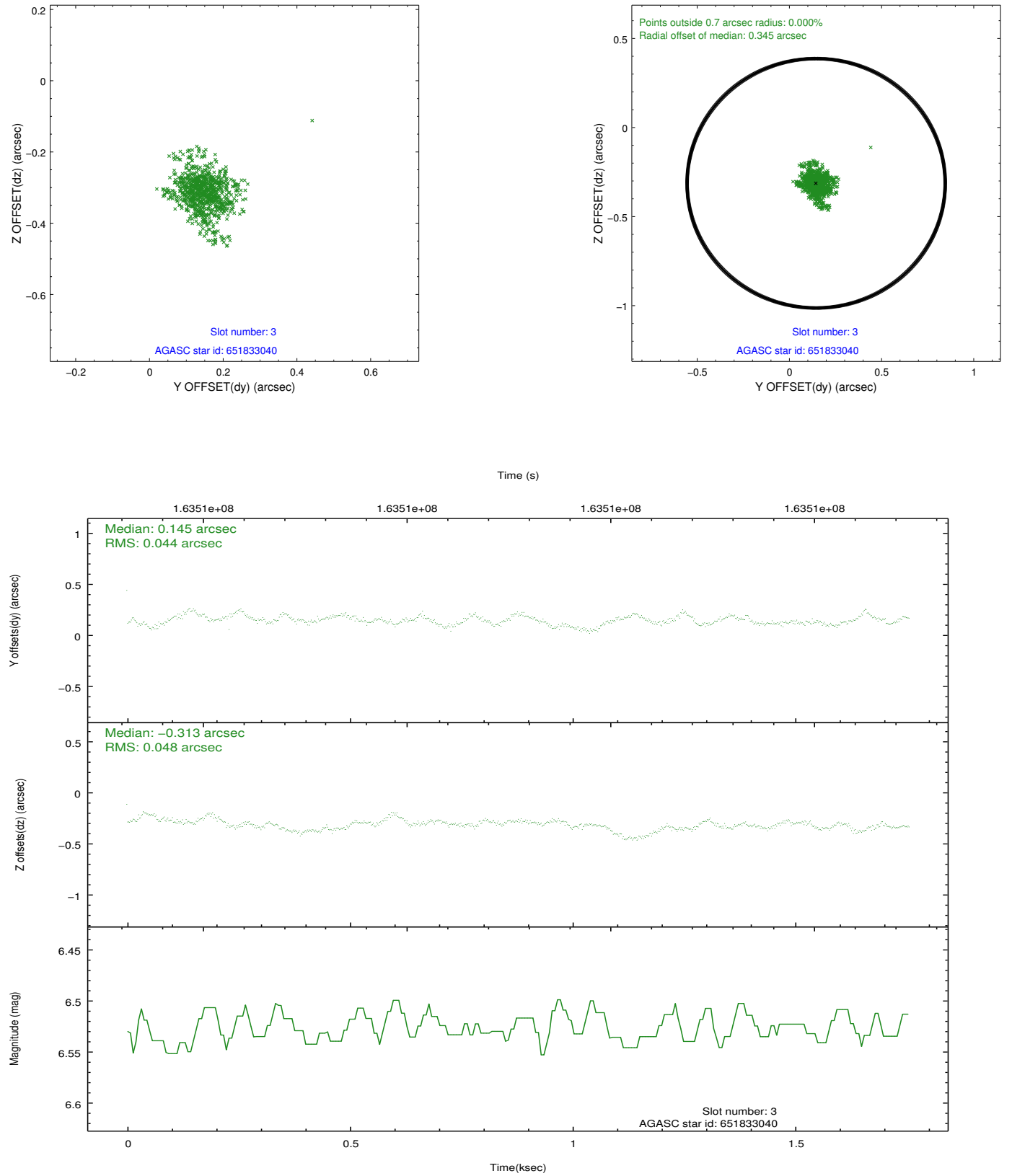
### Slot Statistics

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	429	-0.037	0.001	0.007	0.011	0.000000	0.000000	-755.22	-1727.94
1	FID	ACIS-S-4	7.21	429	-0.001	0.018	0.005	0.010	0.000000	0.000000	2156.38	176.73
2	FID	ACIS-S-5	7.23	429	0.007	-0.010	0.007	0.011	0.000000	0.000000	-1803.22	174.59
3	GUIDE	651833040	6.53	858	0.145	-0.313	0.066	0.118	207.074945	-6.837381	-1545.85	1768.29
4	GUIDE	651958840	7.85	858	-0.062	0.087	0.087	0.139	208.408852	-6.188039	1980.27	-2202.04
5	BAD	651960008	10.27	813	-0.265	-0.131	0.119	0.204	207.782098	-6.403885	637.52	-252.11
6	GUIDE	651954832	9.94	854	0.175	0.299	0.125	0.210	208.165449	-7.253673	-1946.47	-2386.36
7	GUIDE	651954856	9.05	856	-0.007	0.059	0.073	0.118	208.225677	-6.488549	762.72	-1862.95

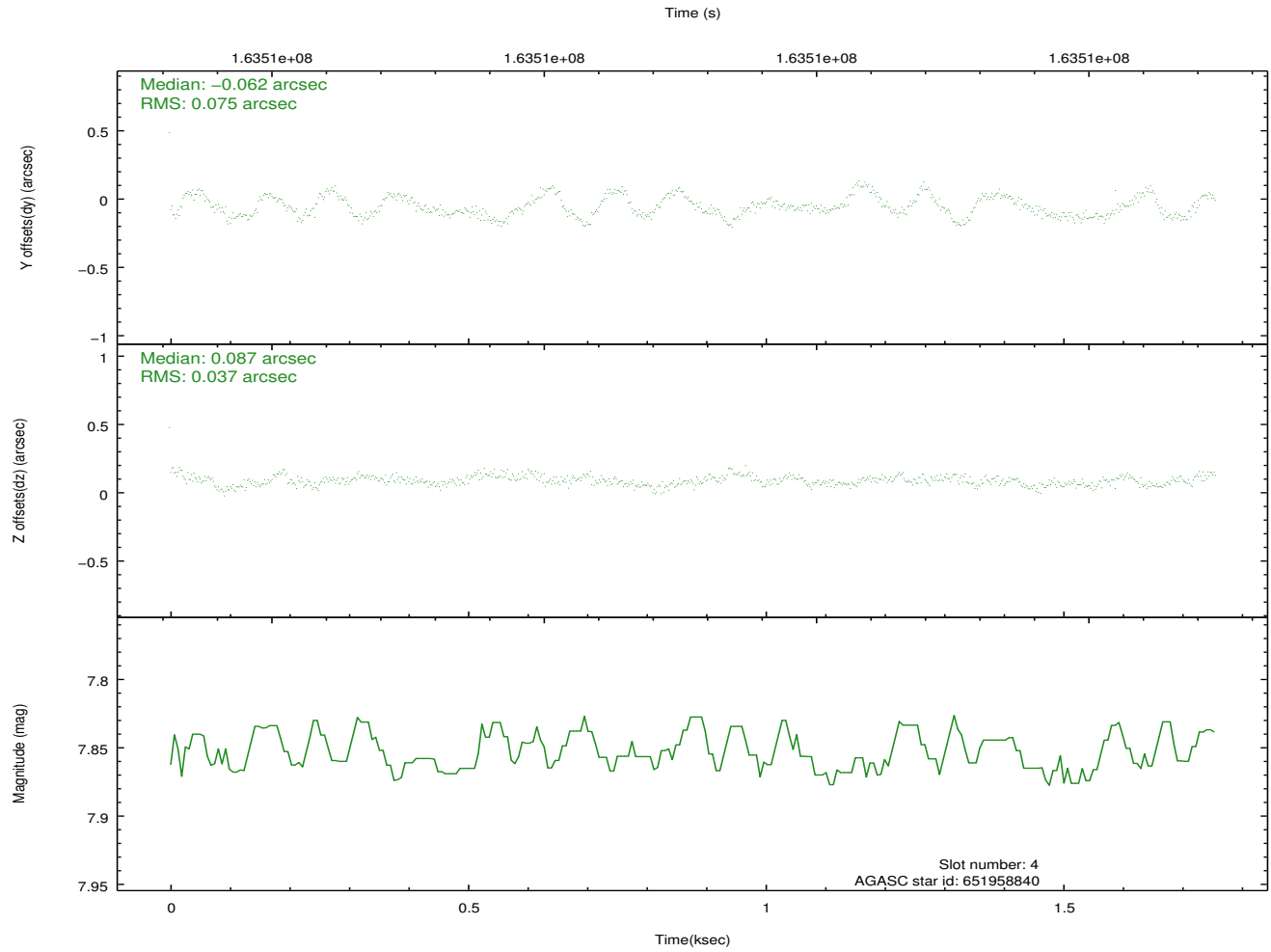
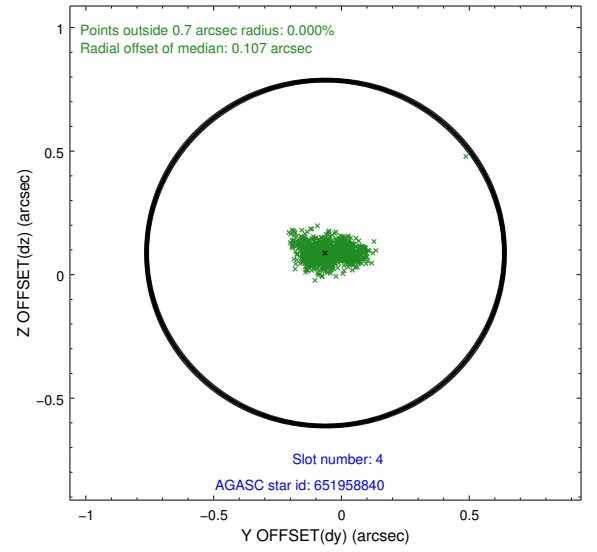
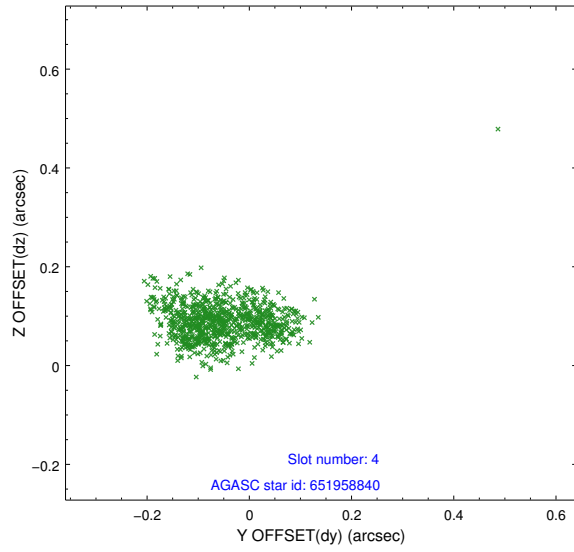


## 2.4 Star Slots

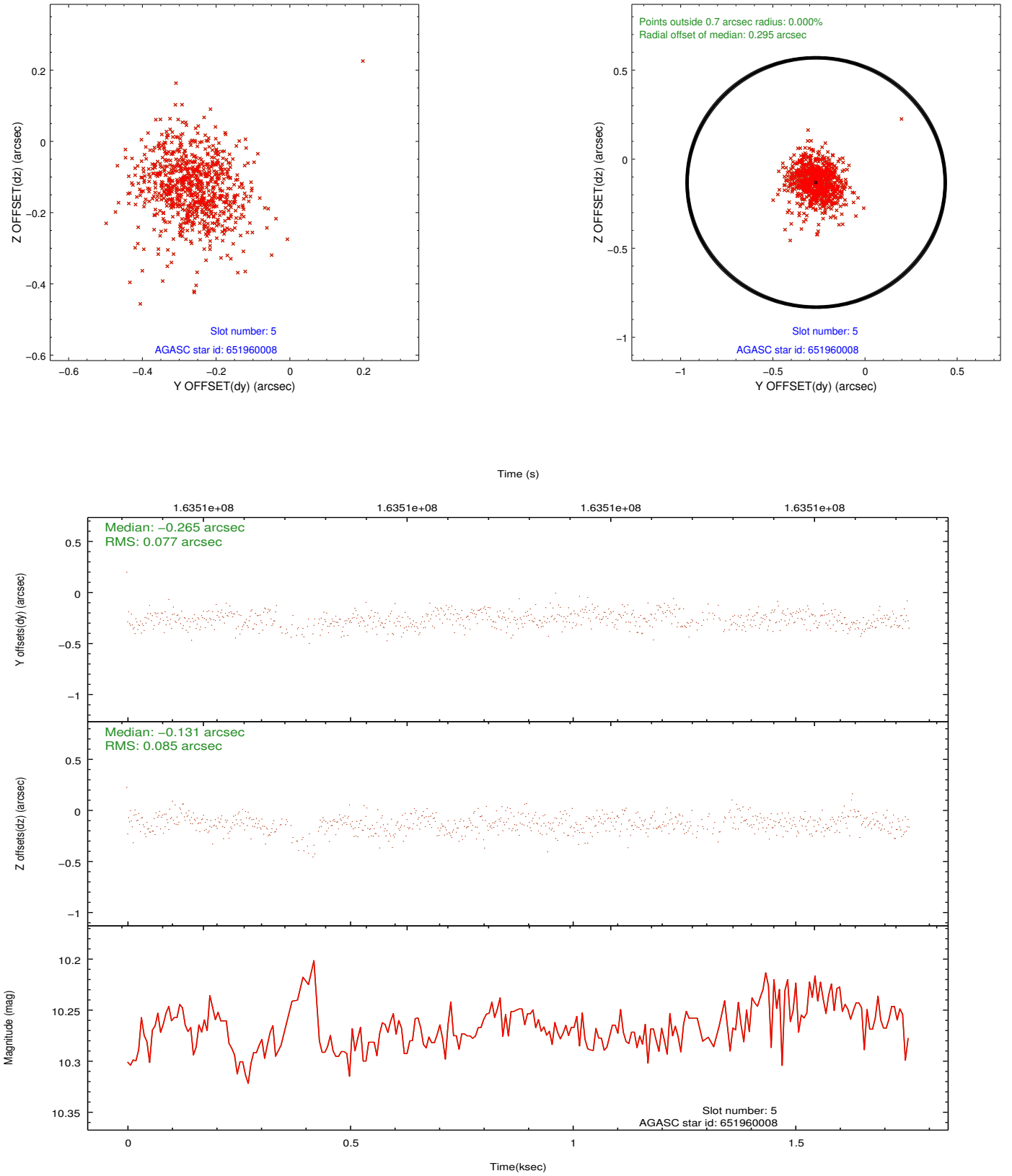
### 2.4.1 Slot 3



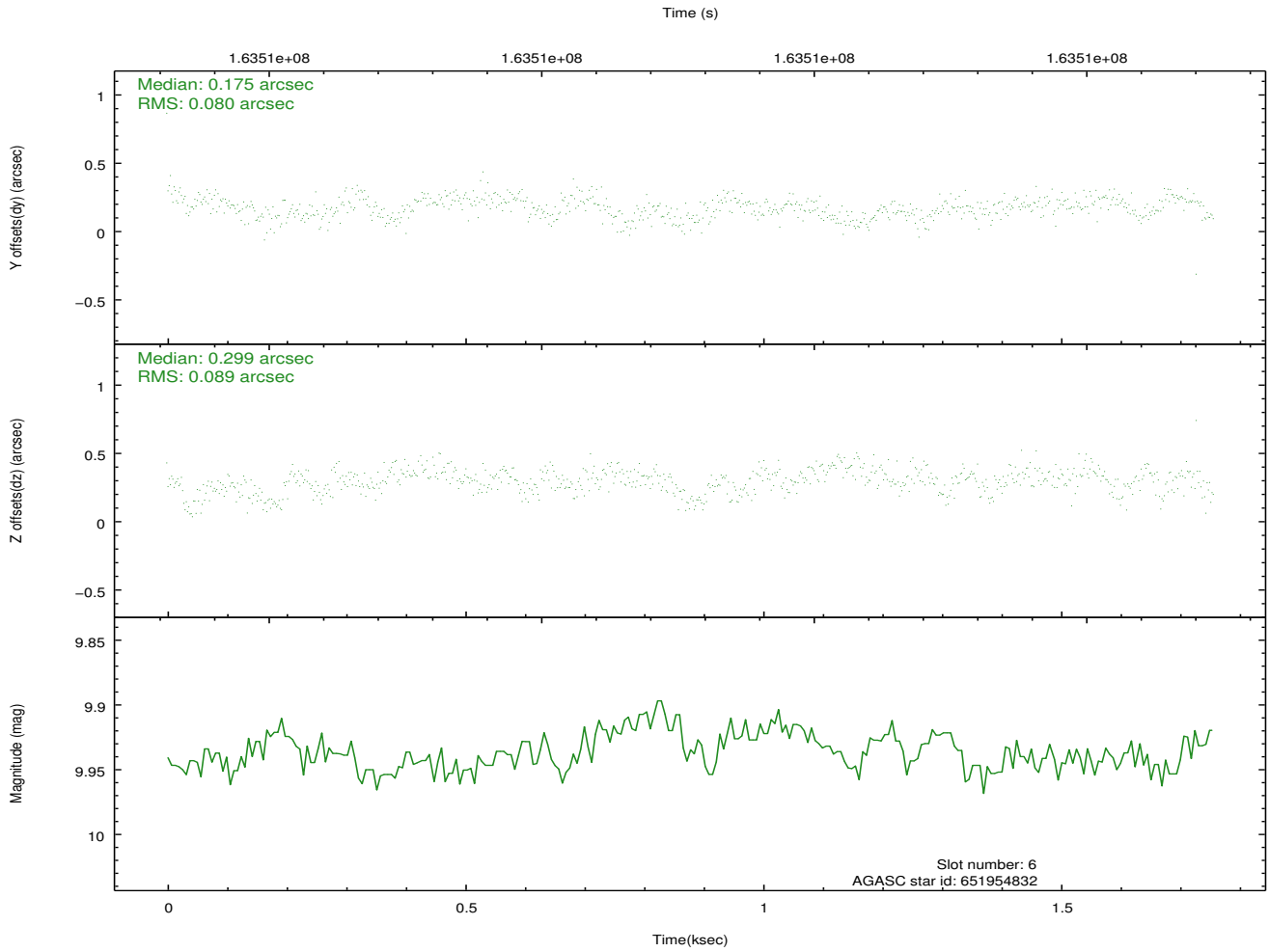
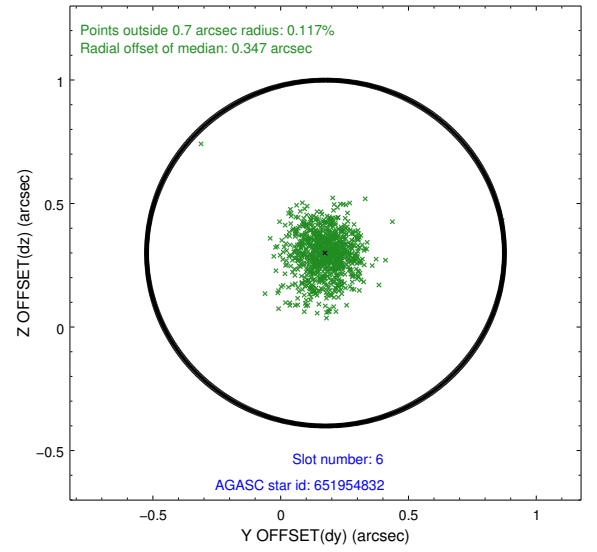
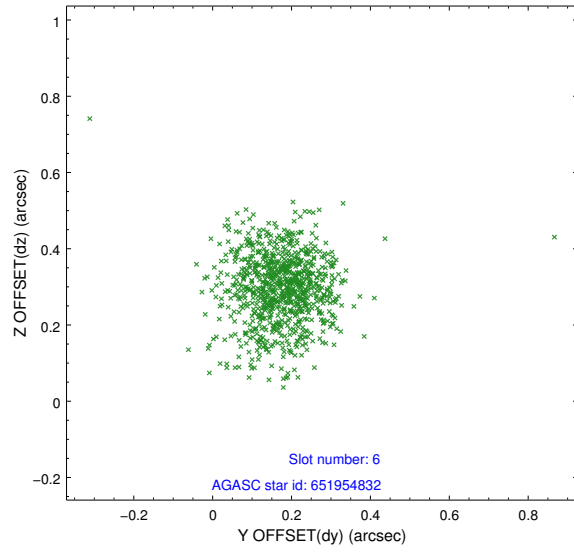
## 2.4.2 Slot 4



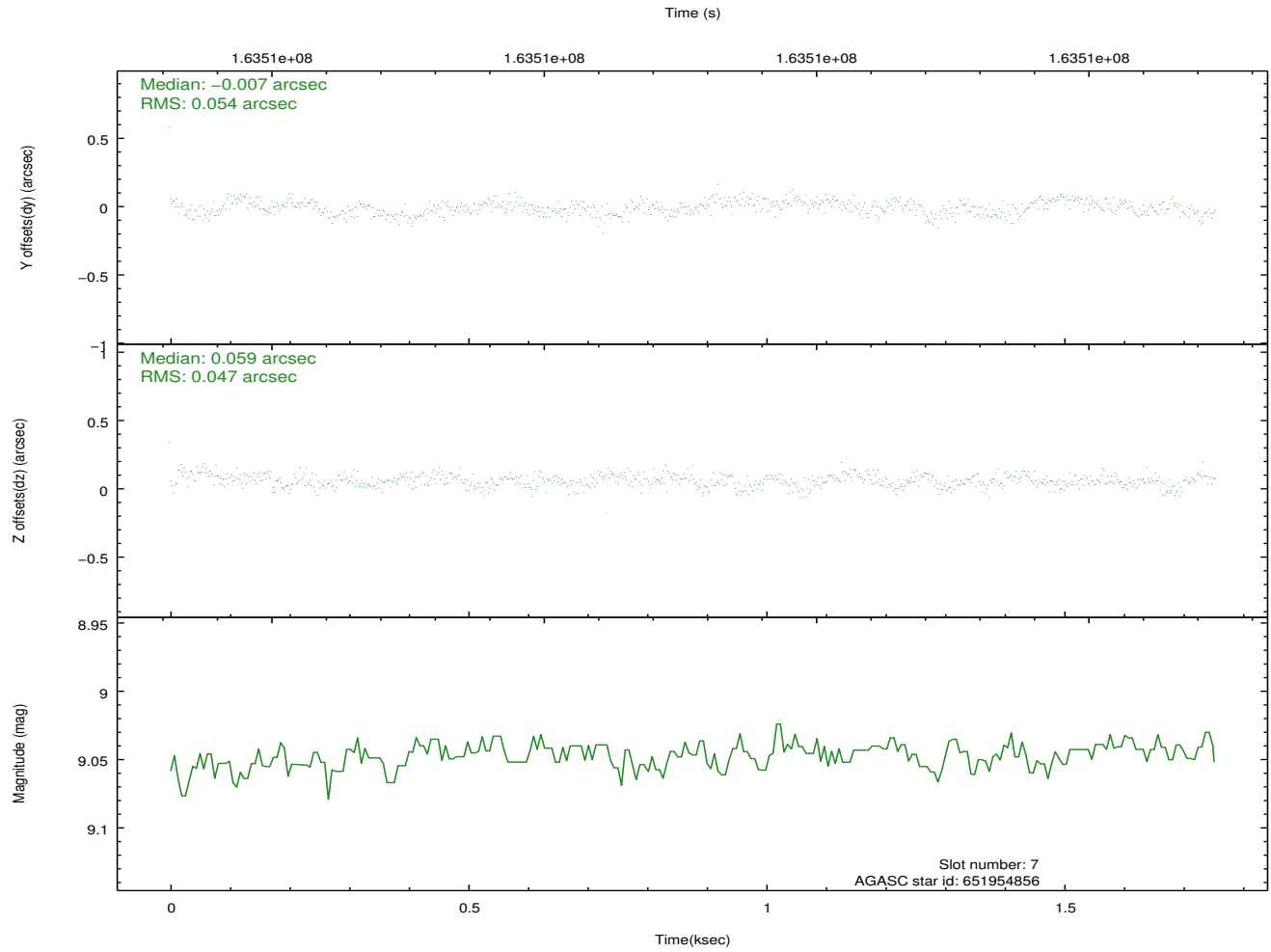
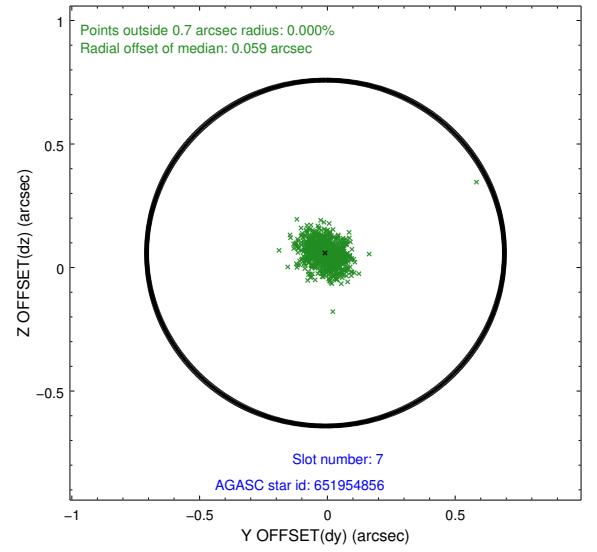
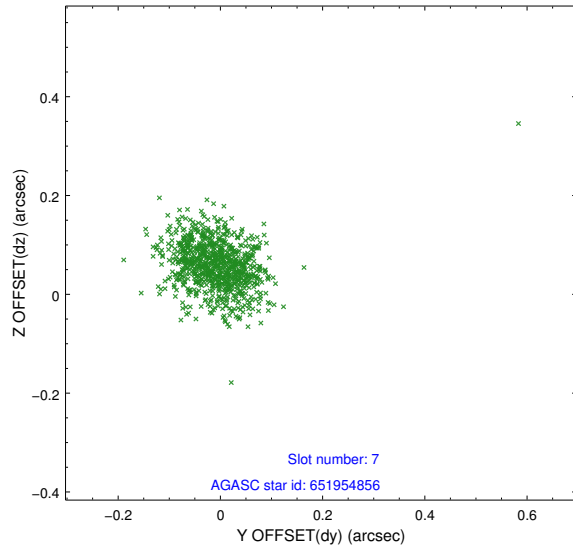
### 2.4.3 Slot 5



## 2.4.4 Slot 6

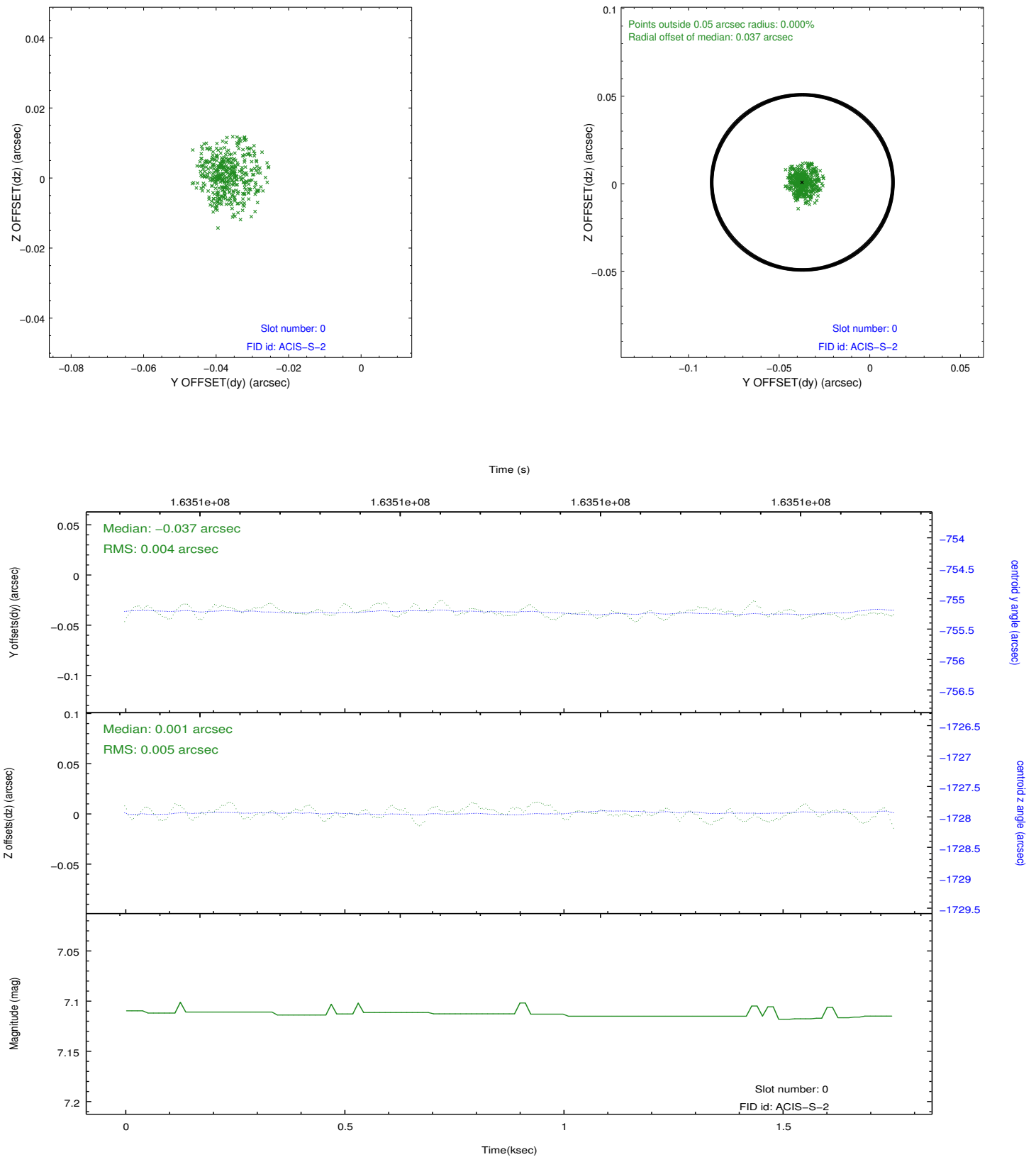


## 2.4.5 Slot 7

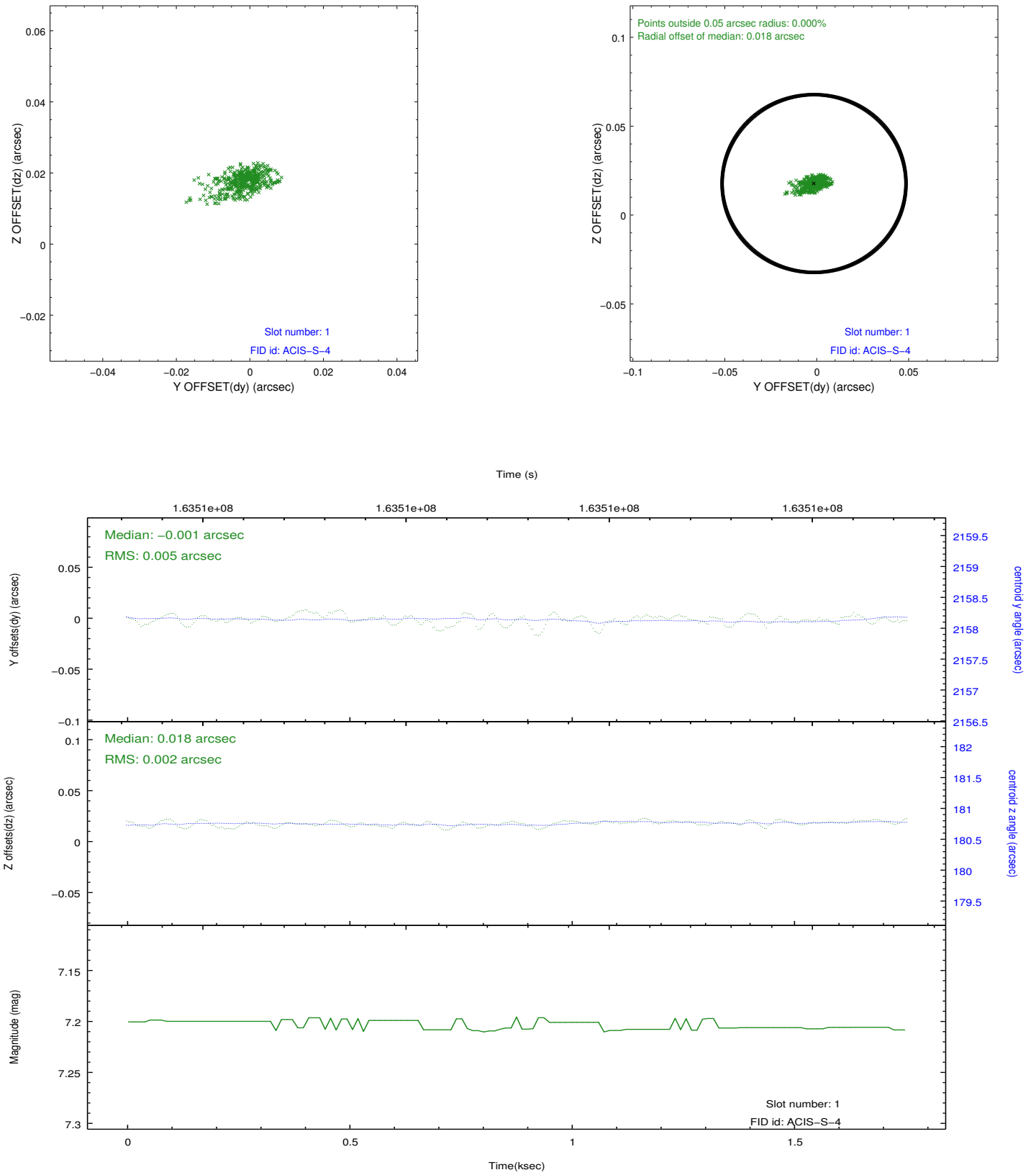


## 2.5 FID Slots

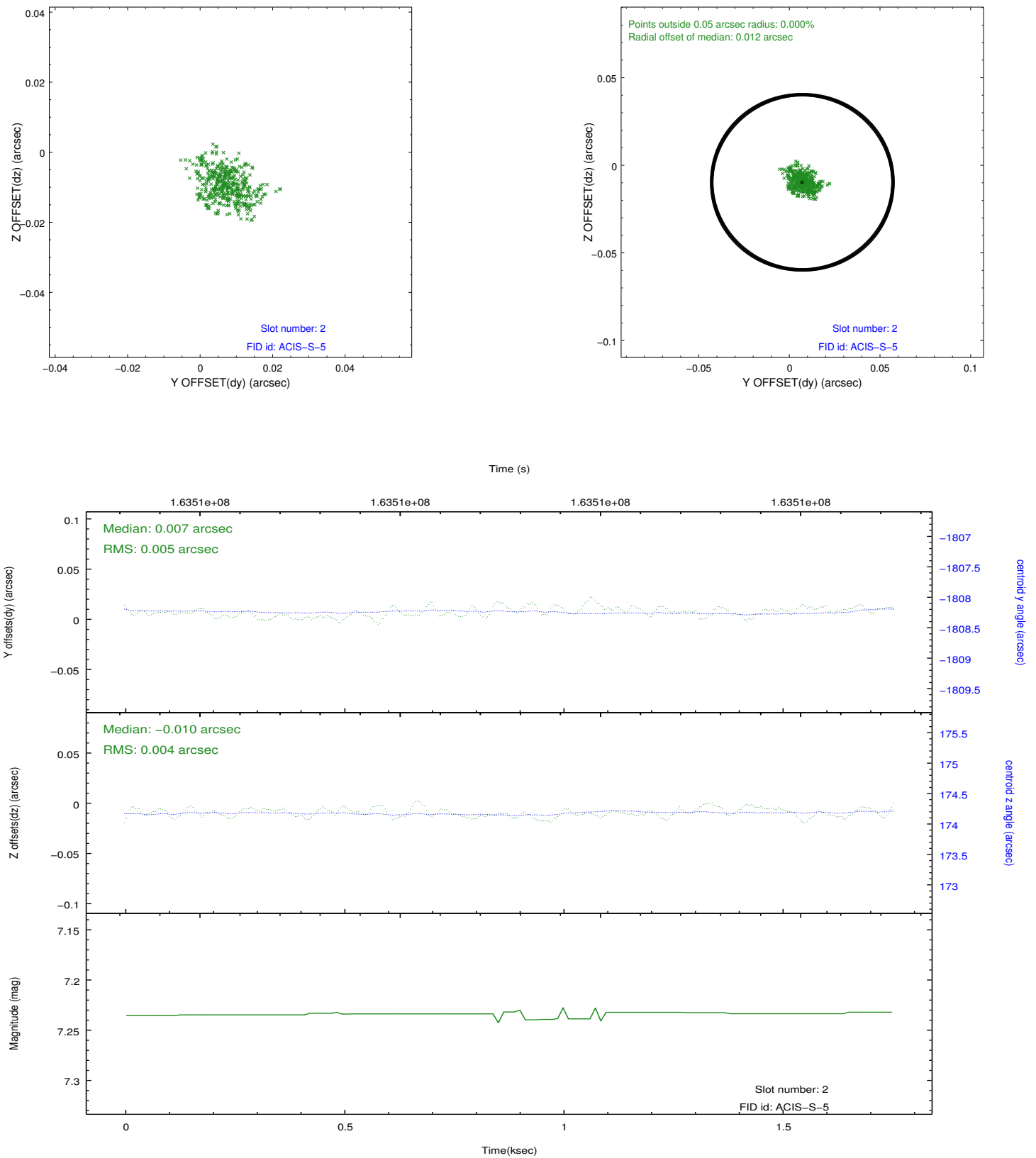
### 2.5.1 Slot 0



## 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)	2012.11.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.568

### A.2 Comments