

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2398 - L2 Version 3  
Chandra X-Ray Center

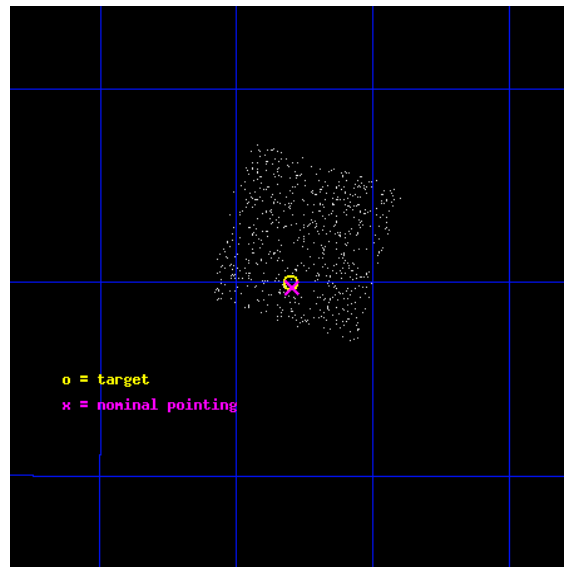
L2 Processing Date : Sep 4 2012

## 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

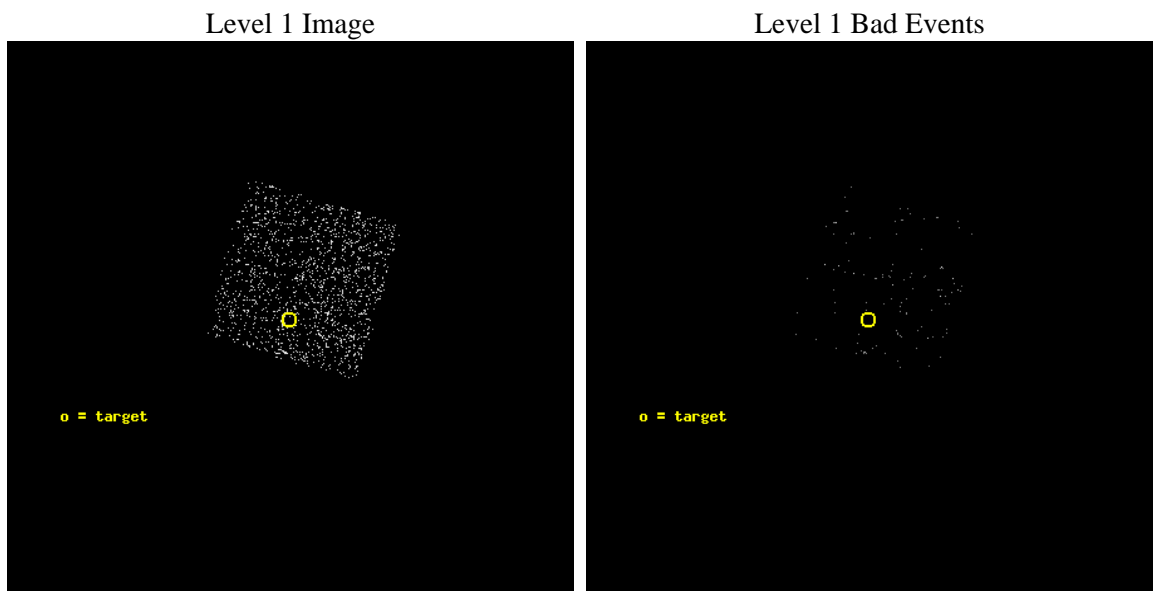
seq_num	190000	Sequence number
obs_id	2398	Observation id
title	ACIS OBSERVATIONS OF JUPITER	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	JUPITER BIAS	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	58.7	Observer's specified target RA [deg]
dec_targ	18.0	Observer's specified target Dec [deg]
ra_nom	58.699393659703	Nominal RA [deg]
dec_nom	17.995228306927	Nominal Dec [deg]
roll_nom	286.73752516491	Nominal Roll [deg]
revision	3	Processing version of data
ontime	225.0	Sum of GTIs [s]
livetime	221.96353878936	Livetime [s]
ontime7	225.0	Sum of GTIs [s]
l2events	694	Number of level 2 events



## 2 OBI

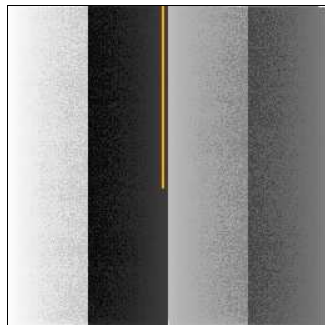
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	100.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	225.0	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime7	225.0	Sum of GTIs [s]
date	2012-09-05T01:12:08	Date and time of file creation	l1events	6222	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	6222
rejected events	5516
rejected %	88%

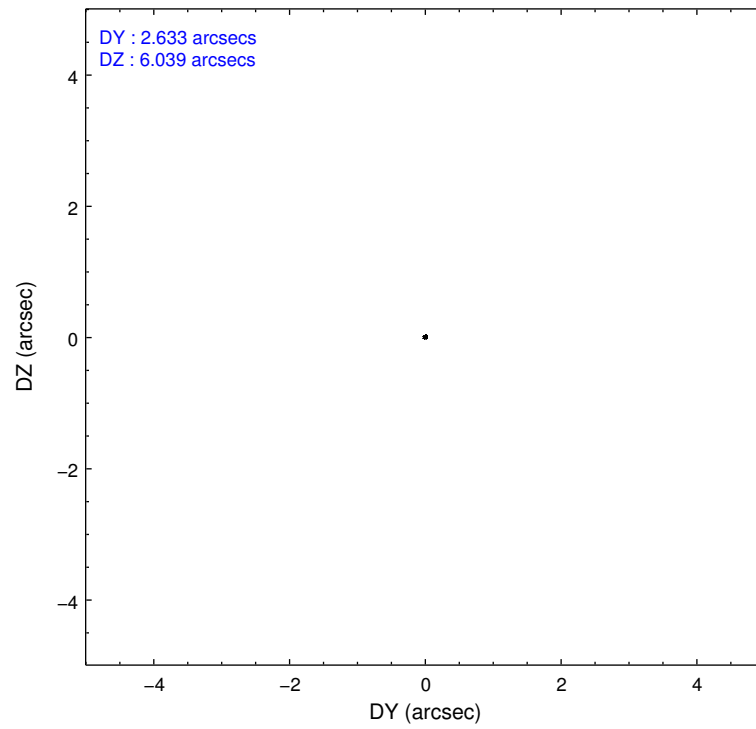
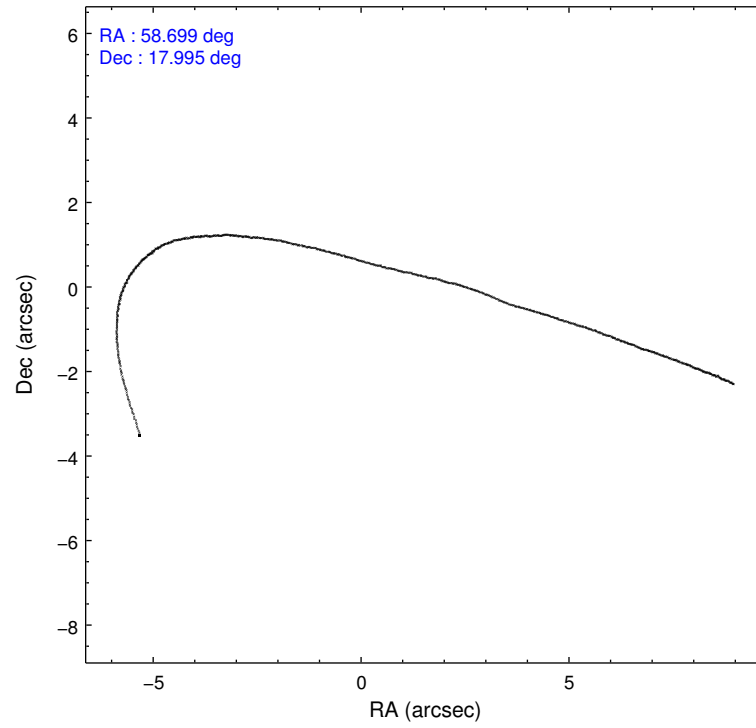
	<b>ccd 7</b>
grade 0 events	207
	3%
grade 1 events	3
	0%
grade 2 events	543
	8%
grade 3 events	227
	3%
grade 4 events	226
	3%
grade 5 events	579
	9%
grade 6 events	1397
	22%
grade 7 events	3040
	48%

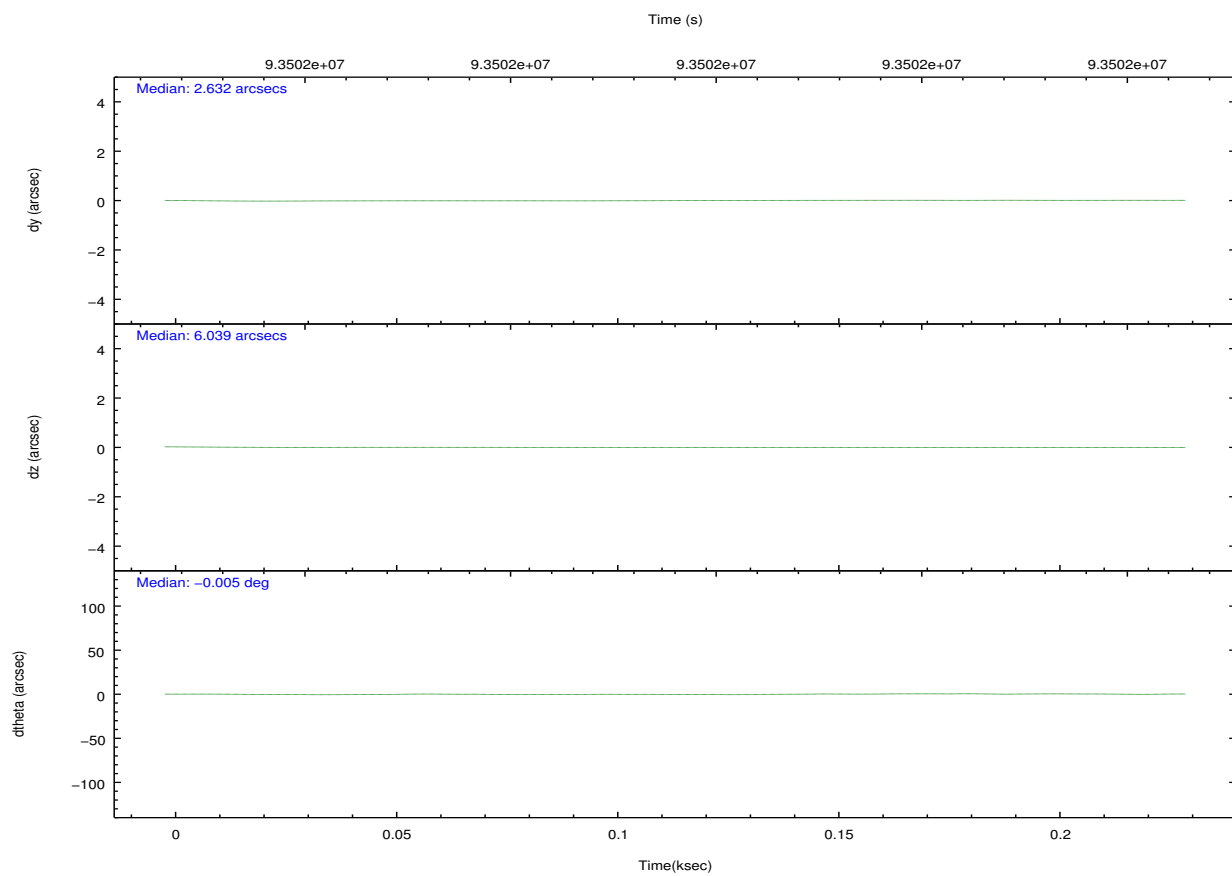
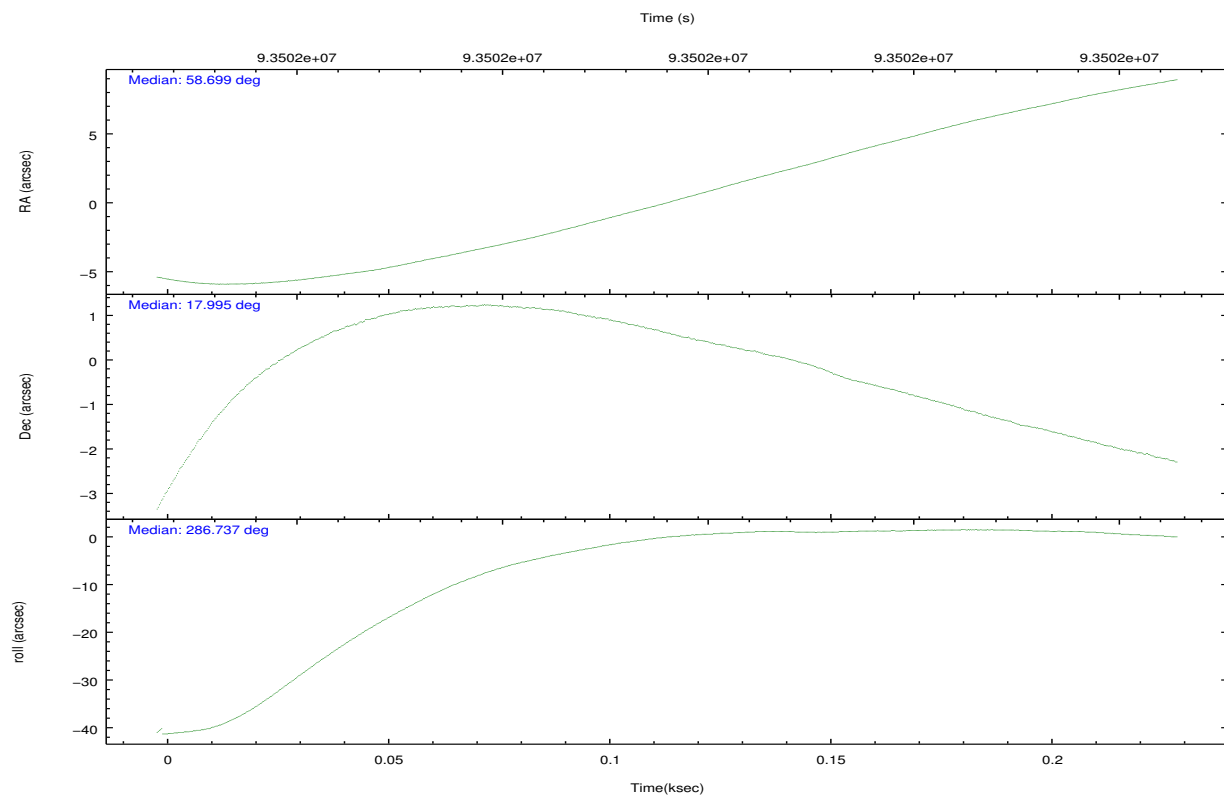
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	58.678410	58.69939365970258
[deg] Pointing Dec	18.014057	17.995228306927
[deg] Pointing Roll	286.589524	286.7375251649109
[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)	93502152.184000	93501138.218099
Observation start date	2000-12-18T04:48:08	2000-12-18T04:32:18
[s] Observation end time (MET)	93502252.184000	93502485.068151
Observation end date	2000-12-18T04:49:48	2000-12-18T04:54:45
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

## 2.3 Aspect





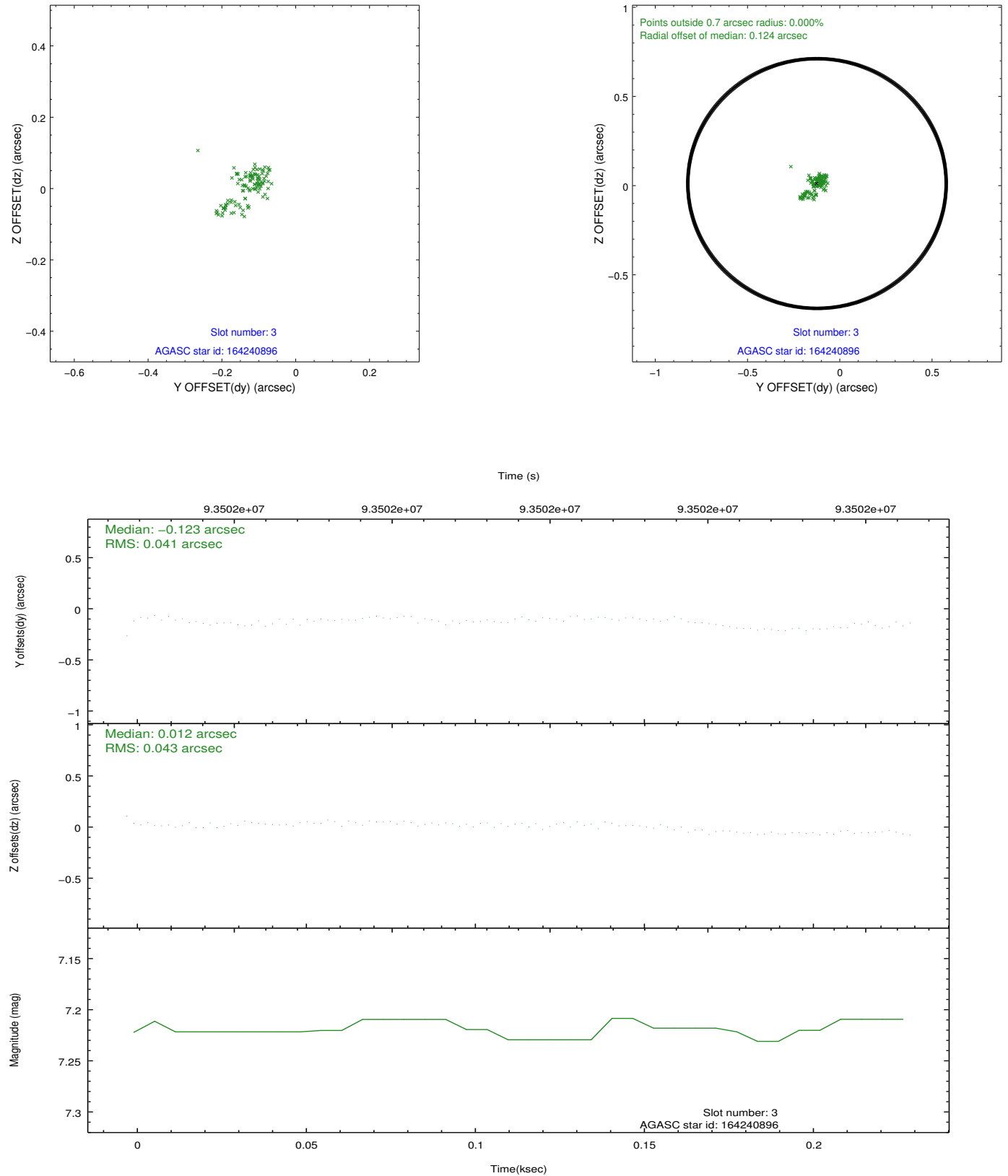
### Slot Statistics

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	57	-0.024	0.019	0.007	0.014	0.000000	0.000000	-755.27	-1727.17
1	FID	ACIS-S-4	7.21	57	-0.035	0.006	0.006	0.016	0.000000	0.000000	2144.80	151.19
2	FID	ACIS-S-5	7.24	57	0.026	-0.017	0.005	0.014	0.000000	0.000000	-1770.65	177.57
3	GUIDE	164240896	7.22	114	-0.123	0.012	0.061	0.117	58.586103	18.624474	-2197.58	325.65
4	GUIDE	164238128	7.81	114	-0.105	0.044	0.057	0.094	58.773515	18.590488	-1917.05	906.48
5	GUIDE	164239560	9.31	114	0.036	0.011	0.079	0.136	58.736035	18.378400	-1219.10	571.23
6	GUIDE	164240592	9.35	114	0.205	-0.043	0.081	0.133	58.703011	17.607576	1414.64	-331.65
7	GUIDE	164239608	9.38	113	-0.022	-0.037	0.115	0.188	58.020877	18.134833	-1051.49	-2033.39

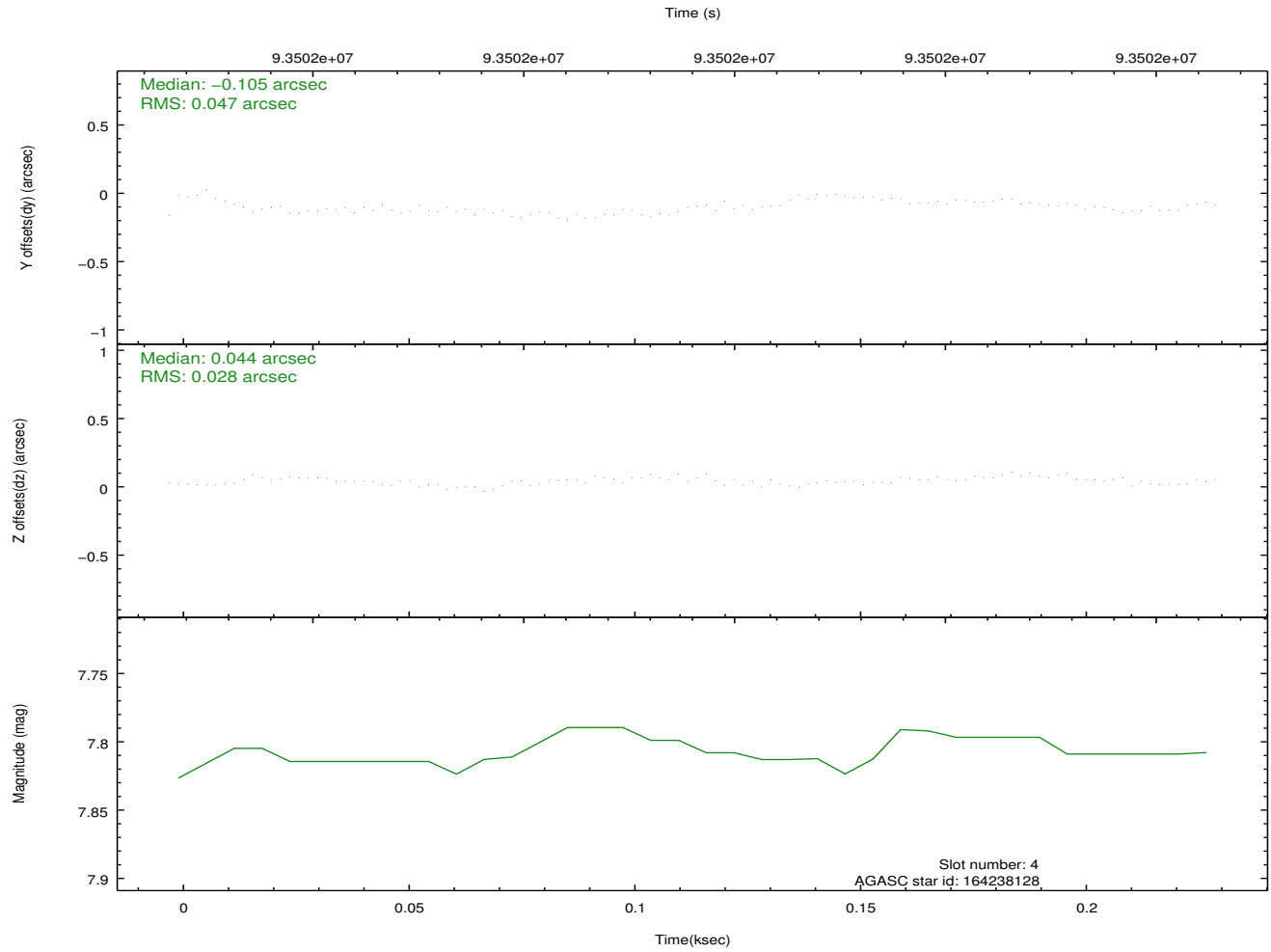
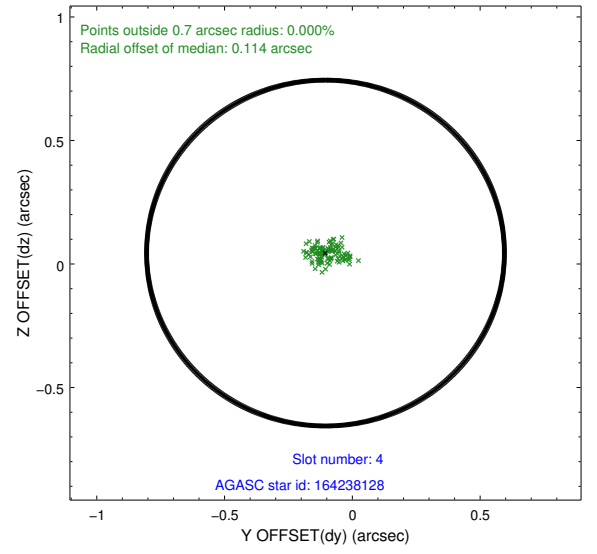
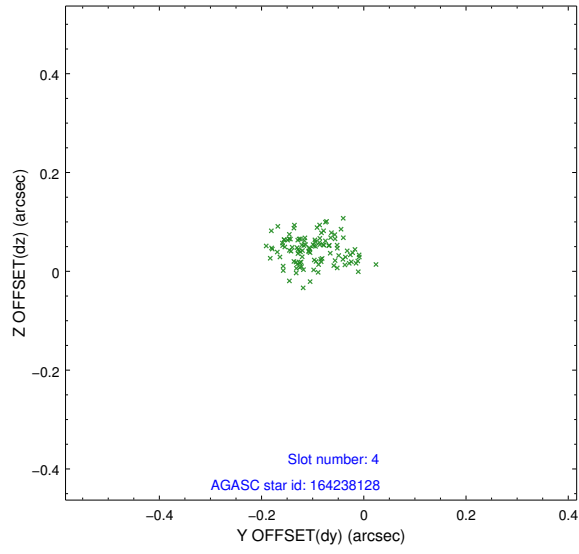


## 2.4 Star Slots

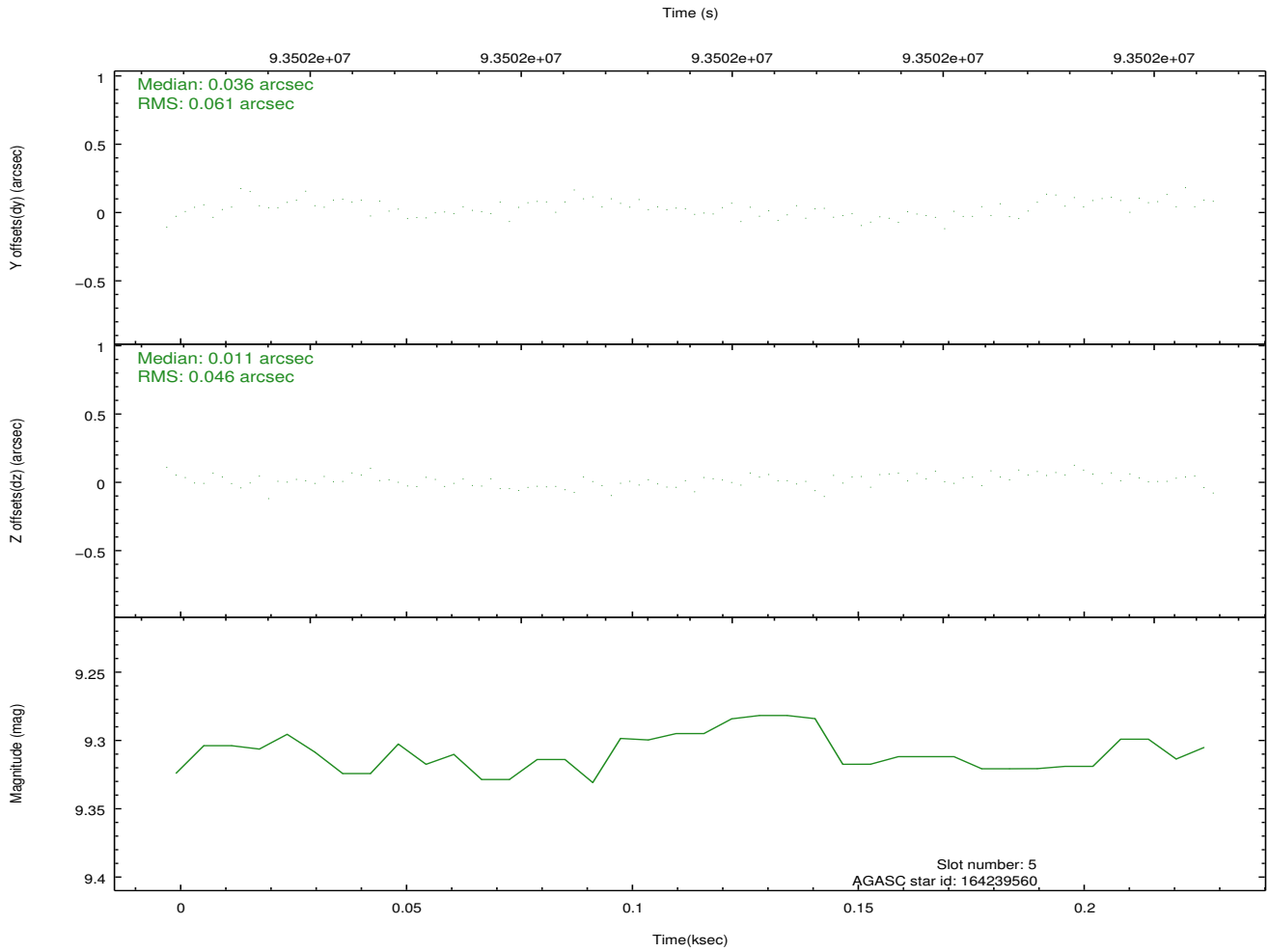
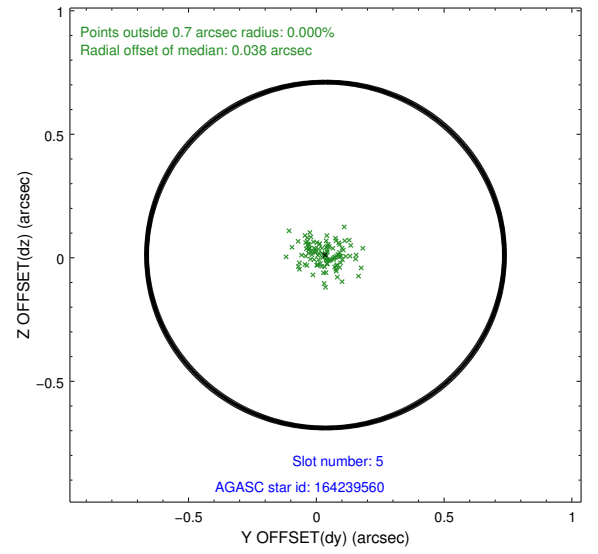
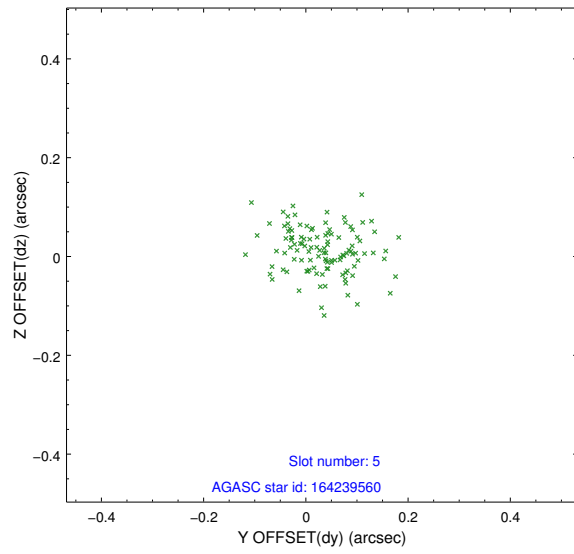
### 2.4.1 Slot 3



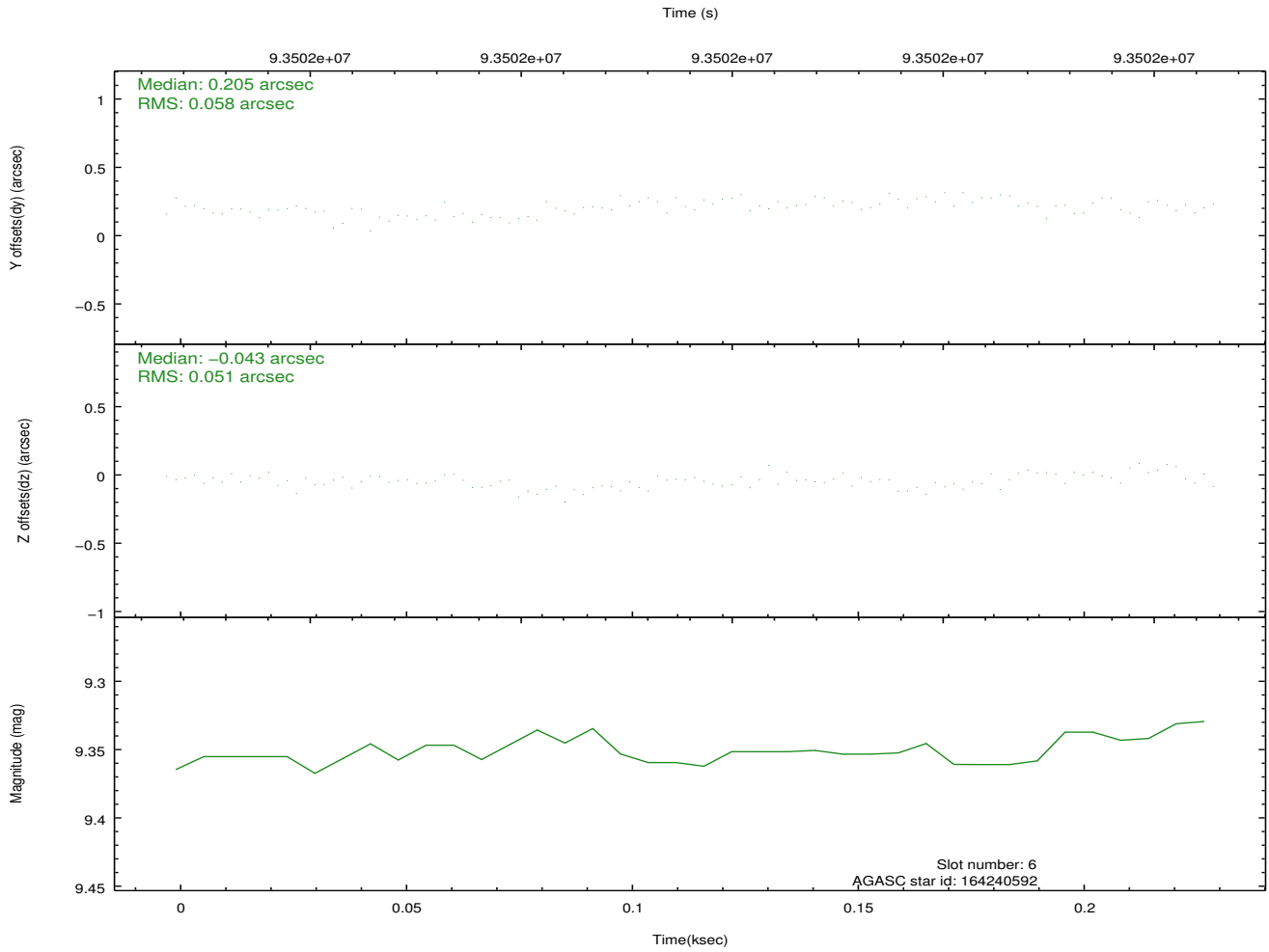
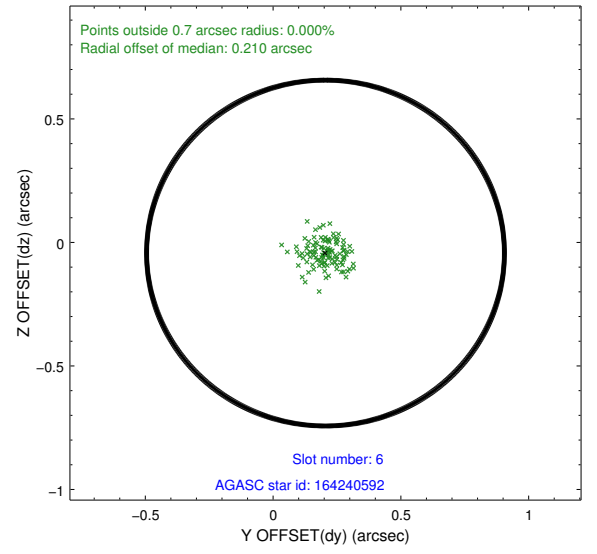
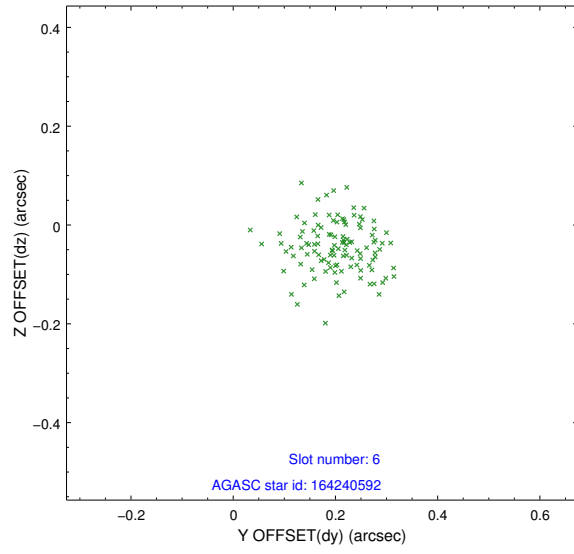
## 2.4.2 Slot 4



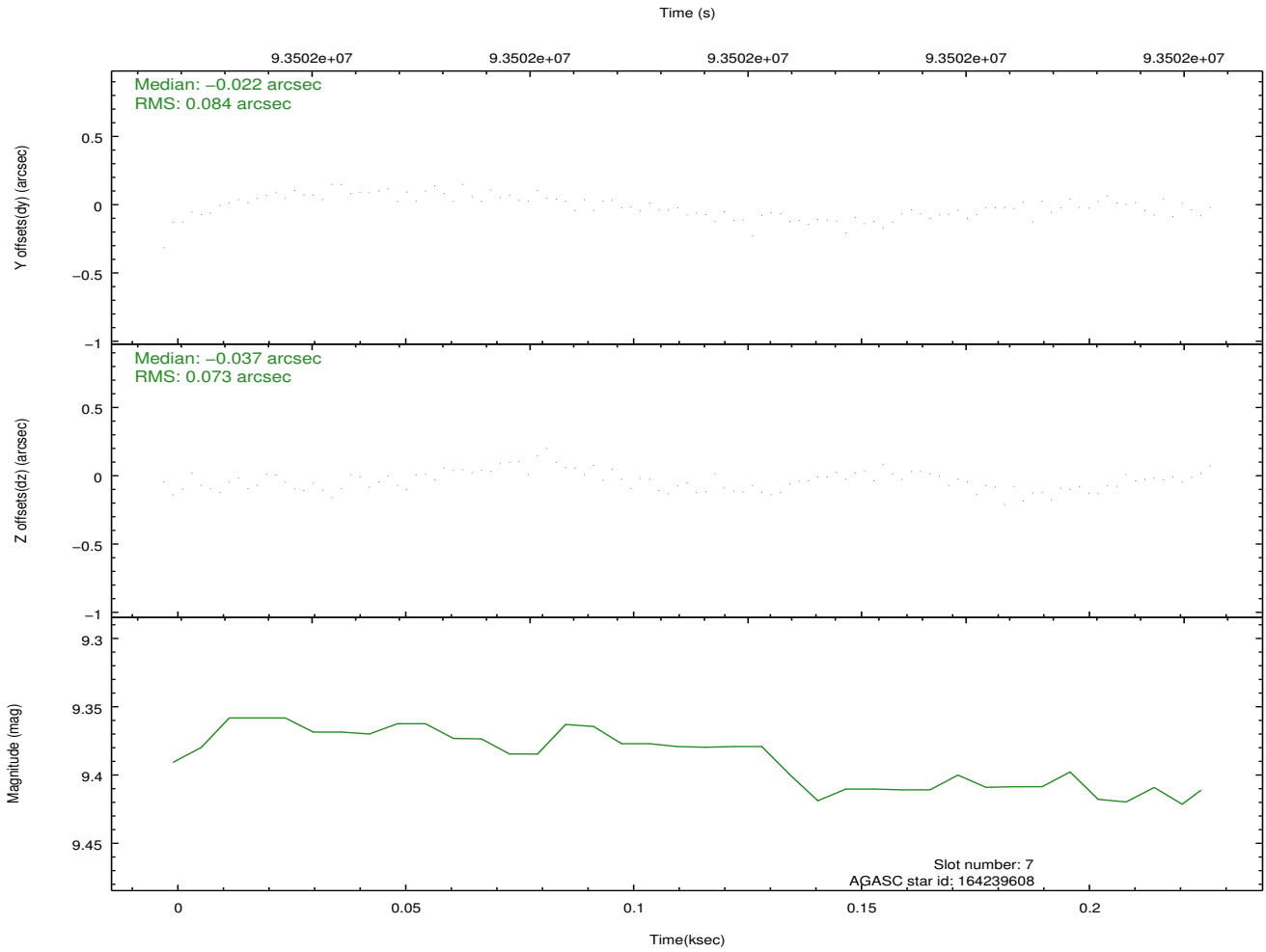
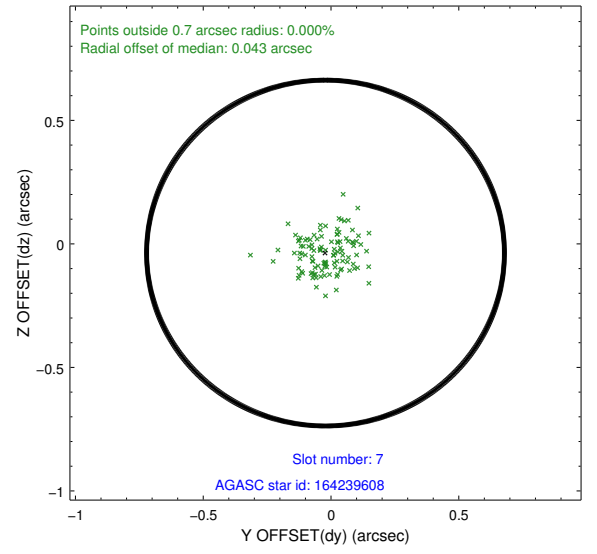
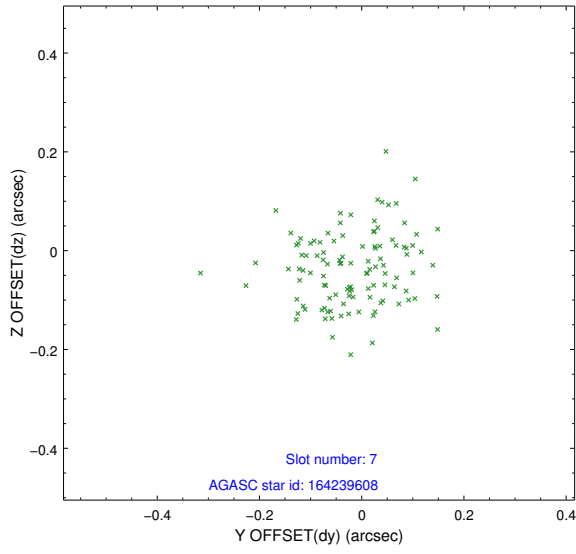
### 2.4.3 Slot 5



## 2.4.4 Slot 6

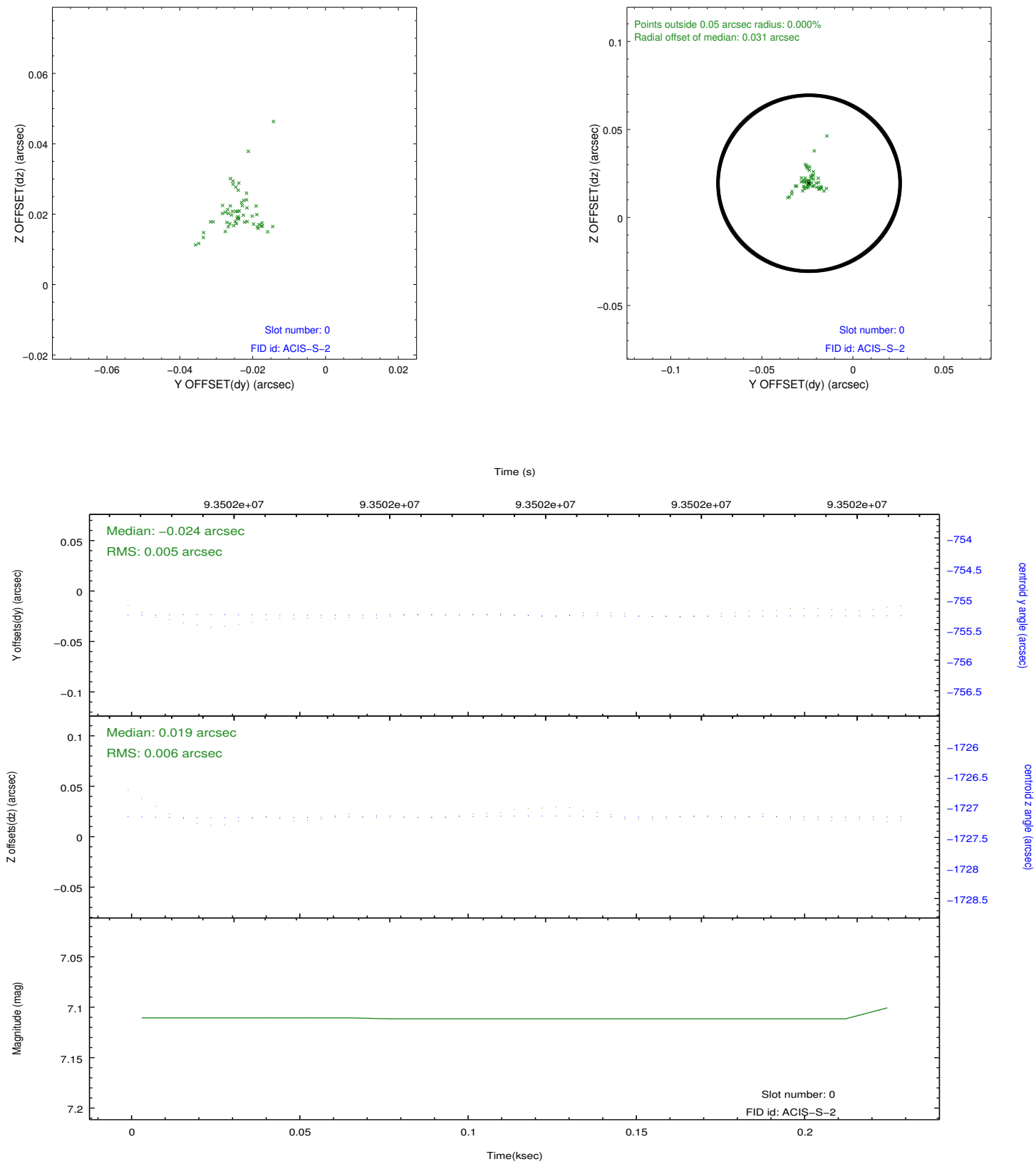


## 2.4.5 Slot 7

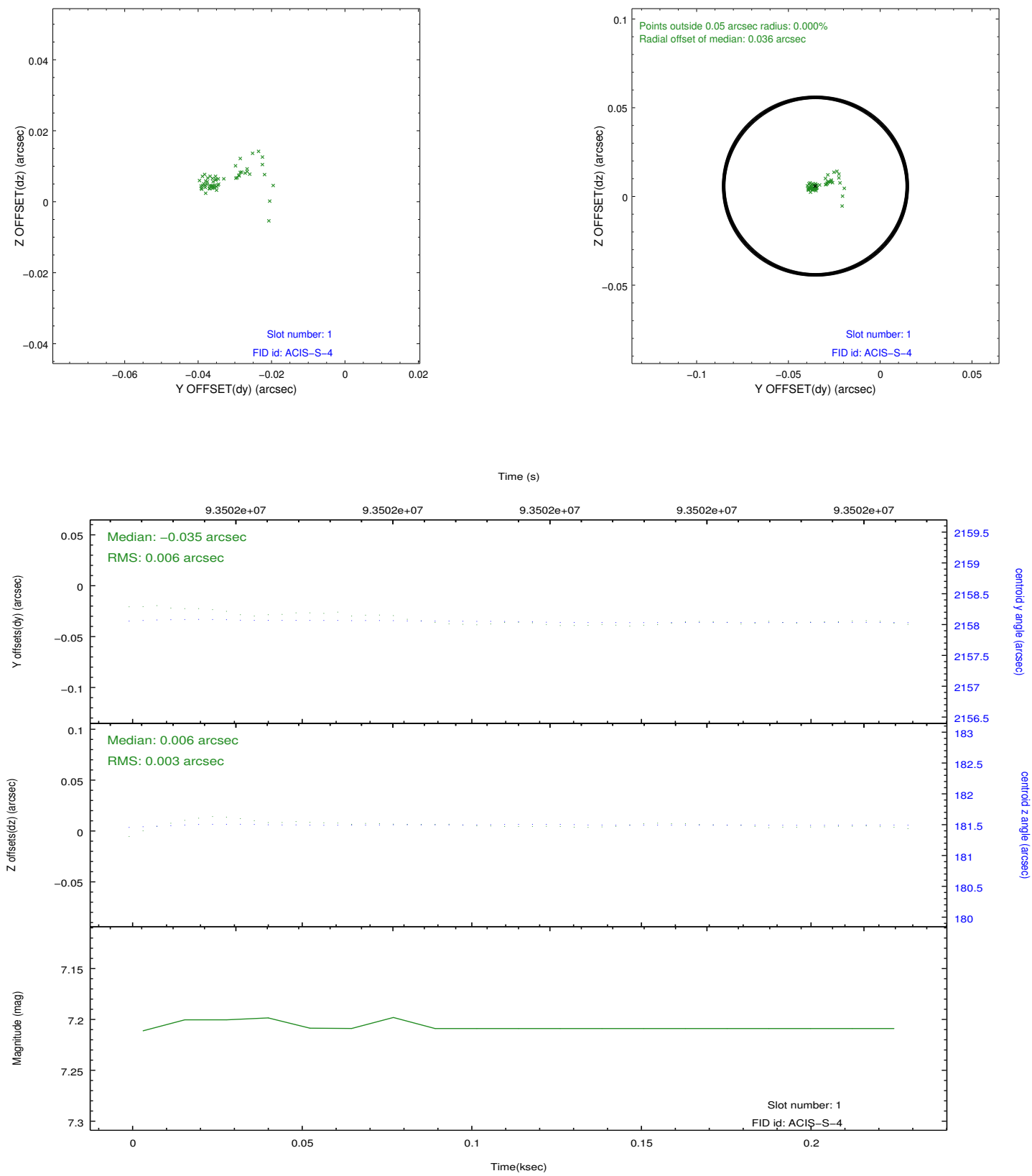


# 2.5 FID Slots

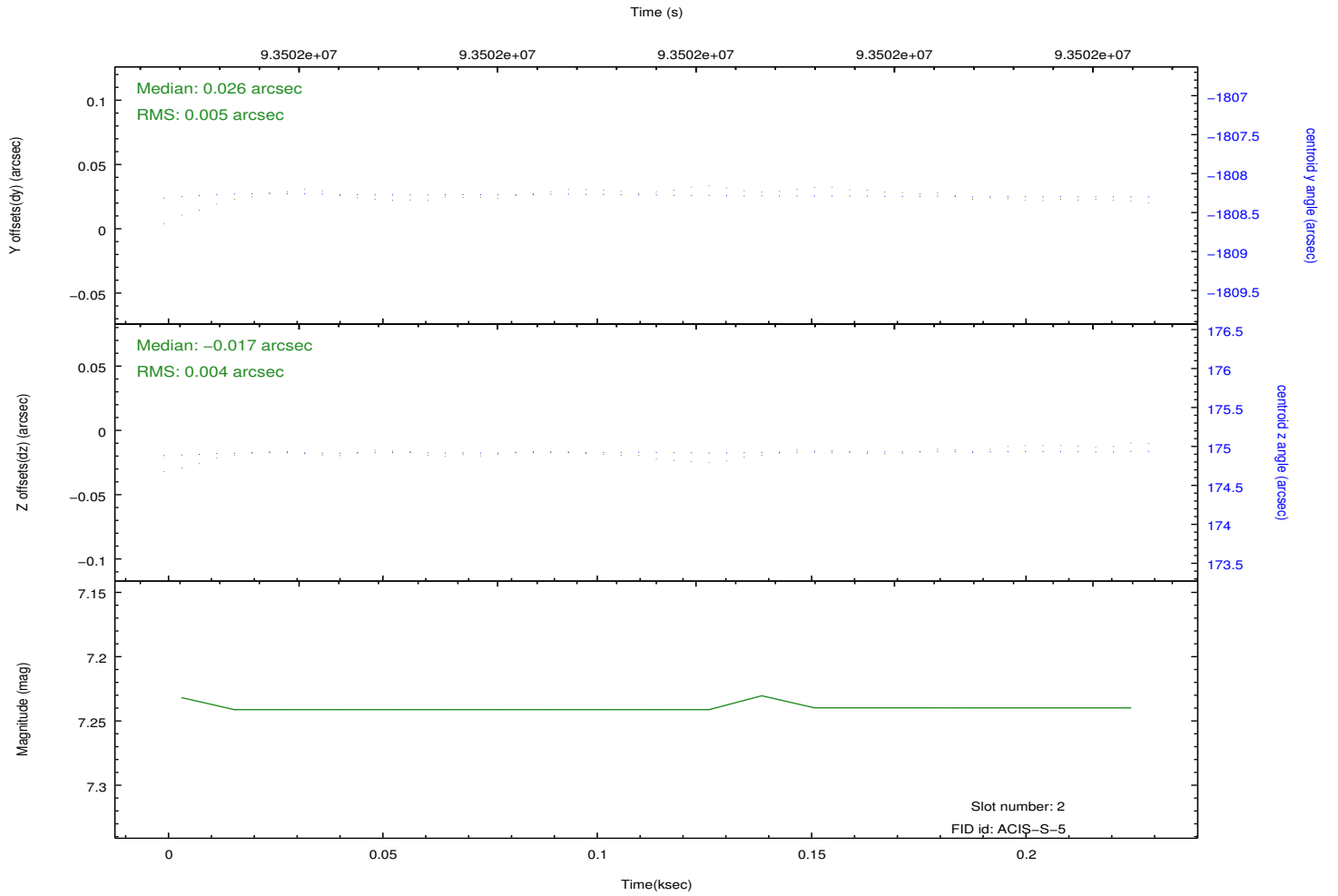
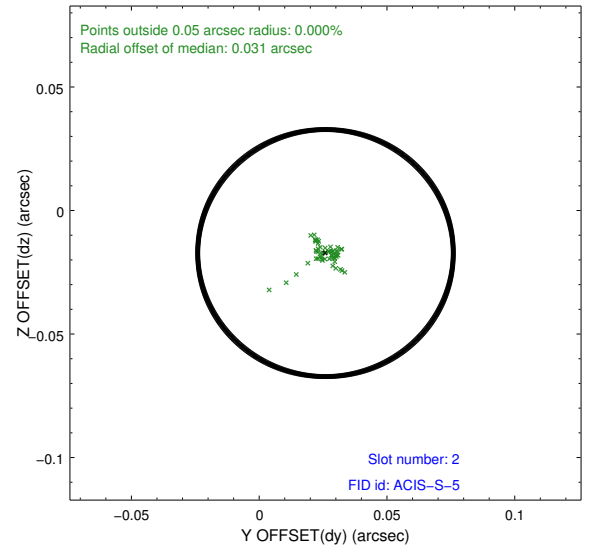
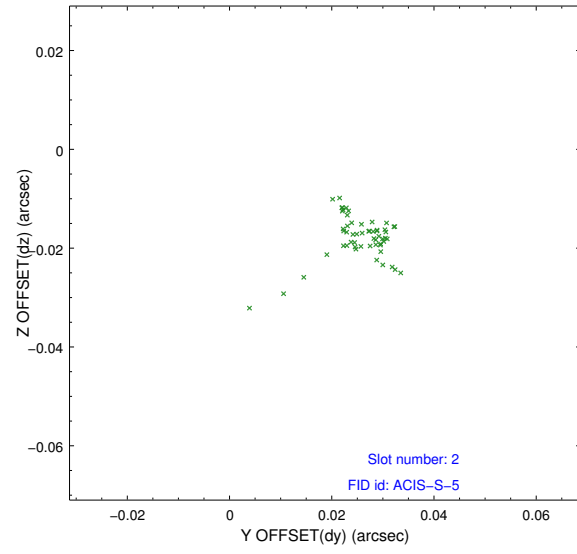
## 2.5.1 Slot 0



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)	2012.09.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.225

### A.2 Comments

This is the bias file for the Jupiter observations; Jupiter was deliberately outside the field of view for this obsid. No obvious sources.