

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 1823 - L2 Version 001  
Chandra X-Ray Center

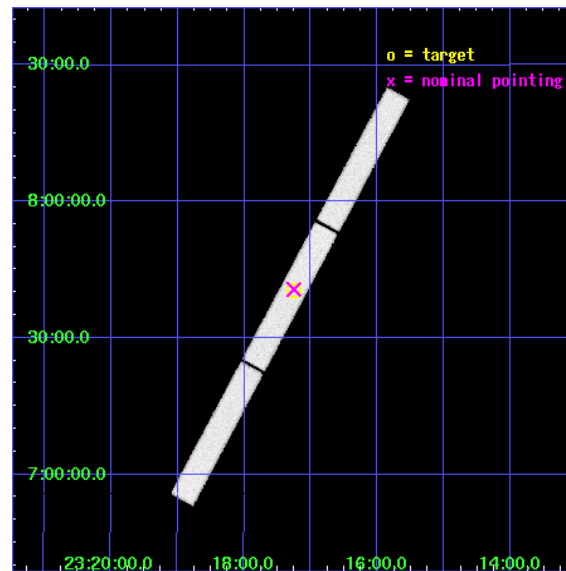
L2 Processing Date : Dec 11 2006

## 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	Parameters . . . . .	4
2.1.3	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>3</b>	<b>Gratings</b>	<b>17</b>
3.1	LETG Arm . . . . .	17
<b>A</b>	<b>Summary</b>	<b>19</b>
A.1	Status . . . . .	19
A.2	Comments . . . . .	19

# 1 Front

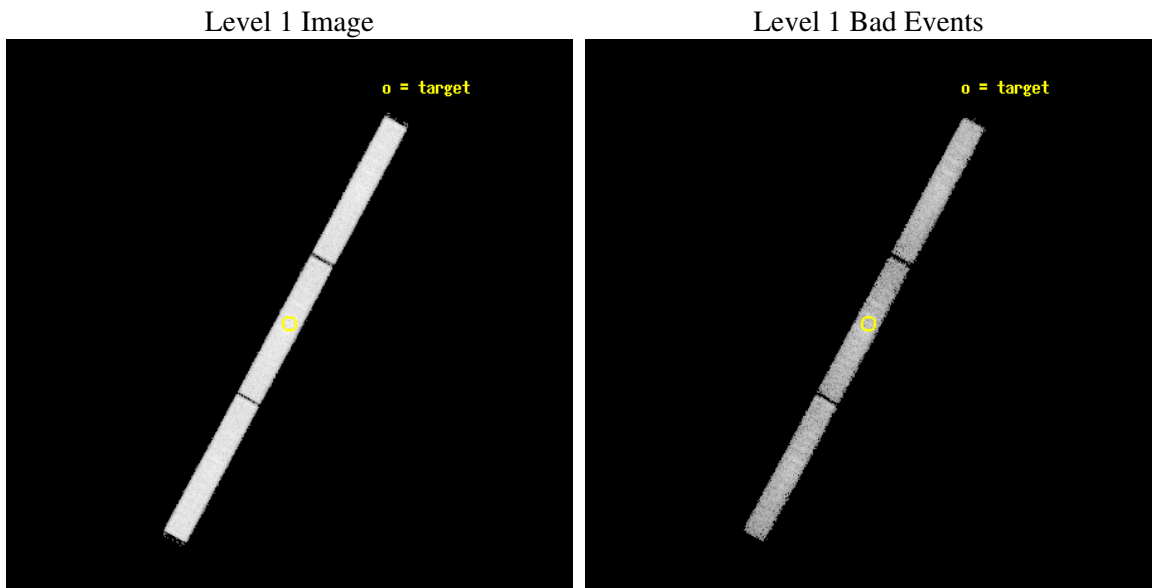
seq_num	100008
obs_id	1823
title	SOLVING THE PUZZLE OF COMETARY X-RAY ORIGIN: OBSERVATIONS OF COMET 10P/TEMPEL 2
observer	DR W. THOMAS VESTRAND
object	LINEAR 2001 A2
ra_targ	349.31544
dec_targ	7.674588
ra_nom	349.31364340057
dec_nom	7.6785716742205
roll_nom	118.32487954263
revision	2
ontime	2393.631343618
livetime	2377.1410384902
l2events	140630



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.4
date	2006-12-11T22:10:50
revision	2

sched_exp_time	2250.000000
ontime	2443.6000955701
l1events	243134

### 2.1.3 Events

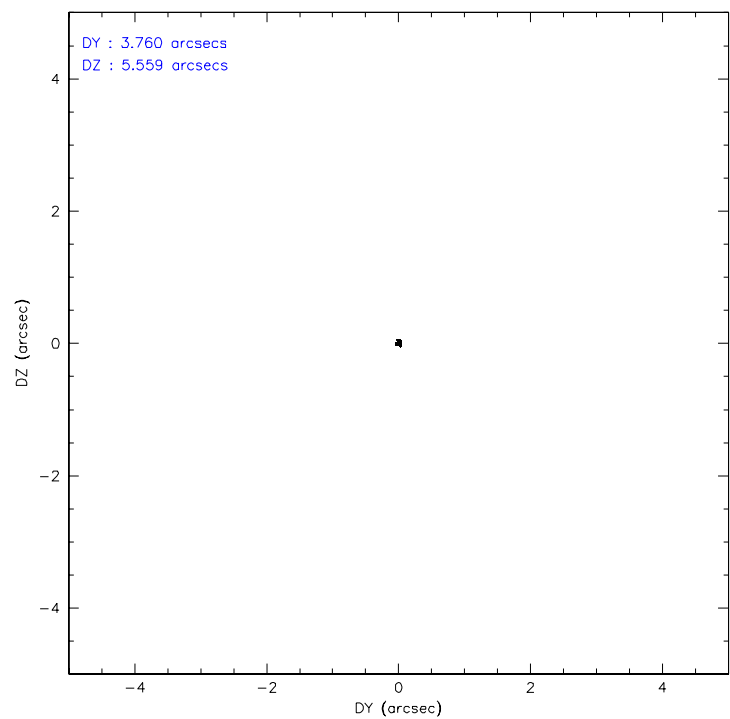
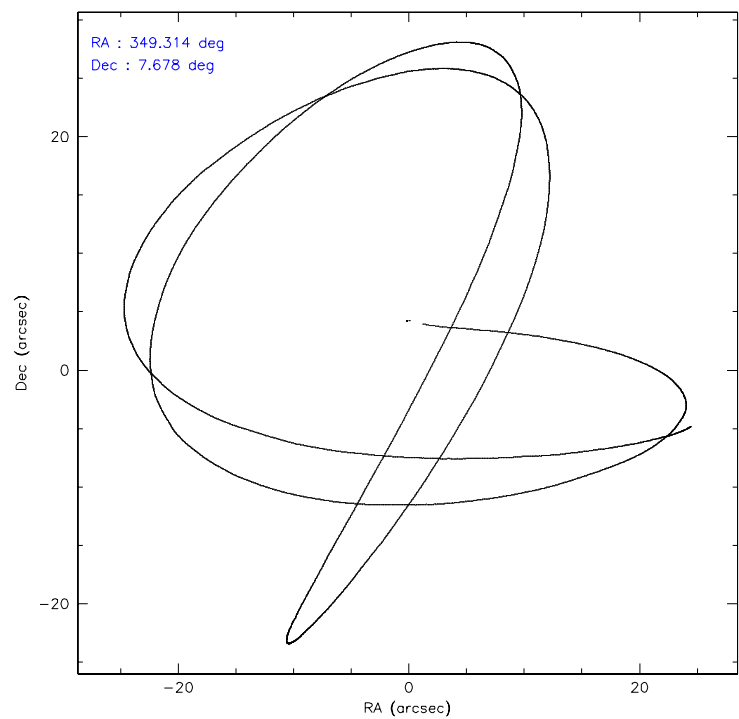
Level 1 Events

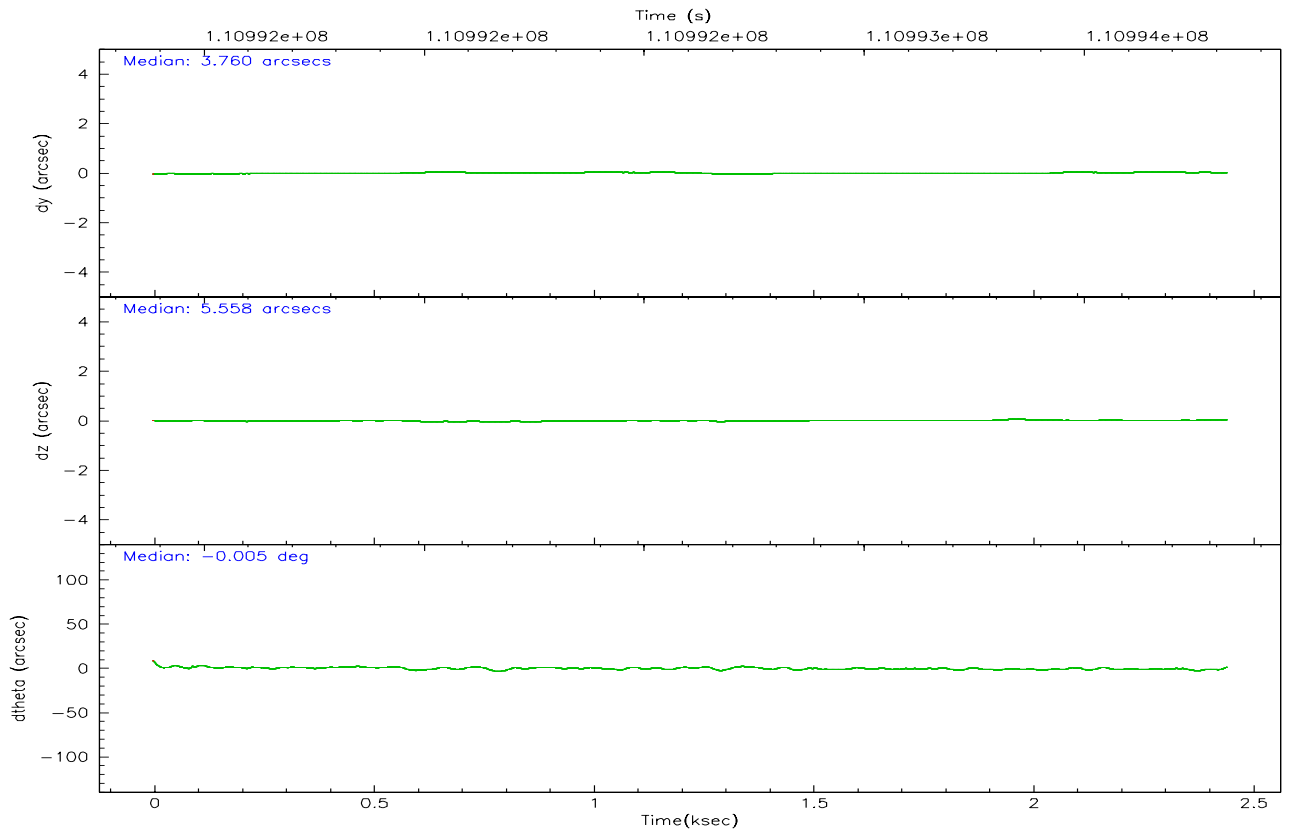
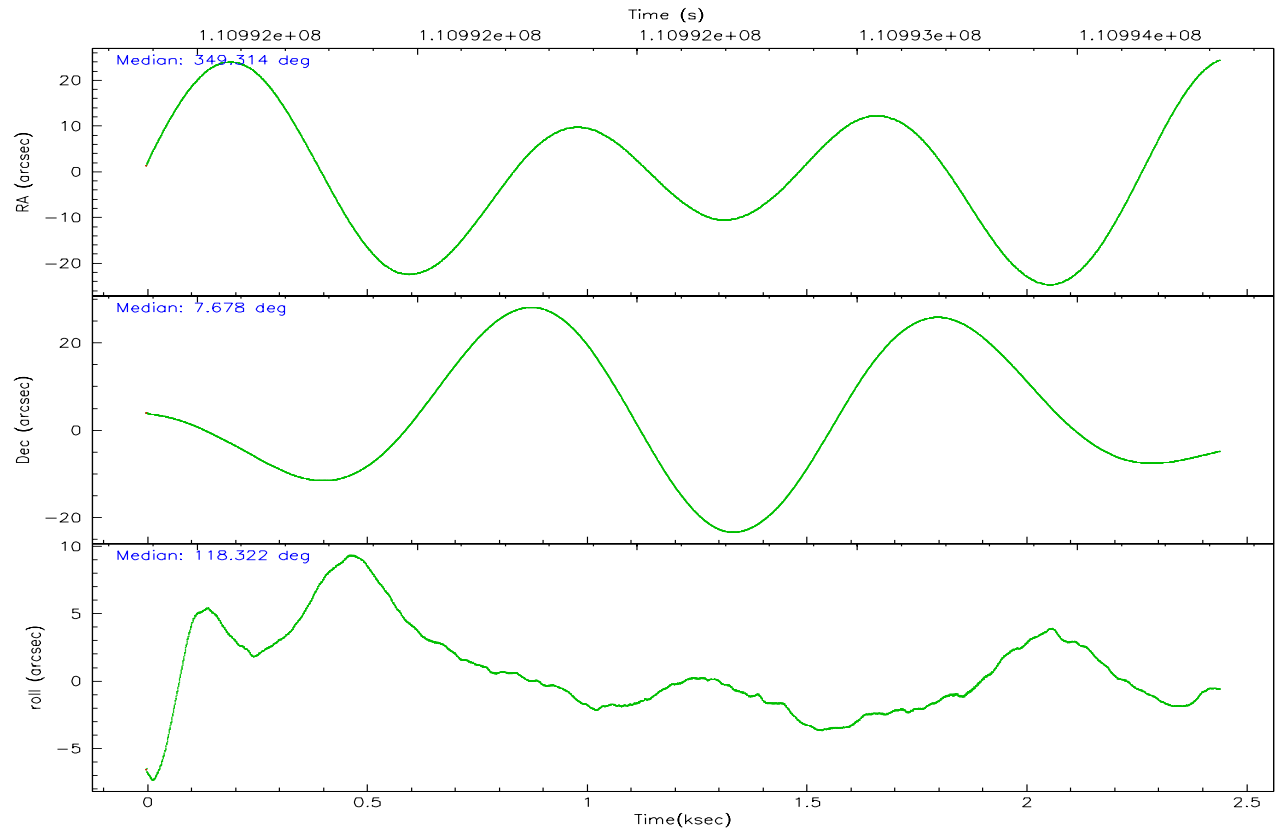
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	80883	80088	82163
rejected events	26416	27451	30354
rejected %	32%	34%	36%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	6	6
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	349.338601	349.3136434005694			
Pointing Dec	7.664969	7.678571674220498			
Pointing Roll	118.254230	118.3248795426289			
SIM focus pos (mm)	-1.429586	-1.428180813131781			
SIM defocus (mm)	0.1037507710433287	0.1051558262725154			
SIM translation stage pos (mm)	250.455976	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	110991574.184000	110991198.2074			
Observation start date	2001-07-08T14:58:30	2001-07-08T14:53:18			
Observation end time	110993824.184000	110993958.53251			
Observation end date	2001-07-08T15:36:00	2001-07-08T15:39:18			

## 2.3 Aspect





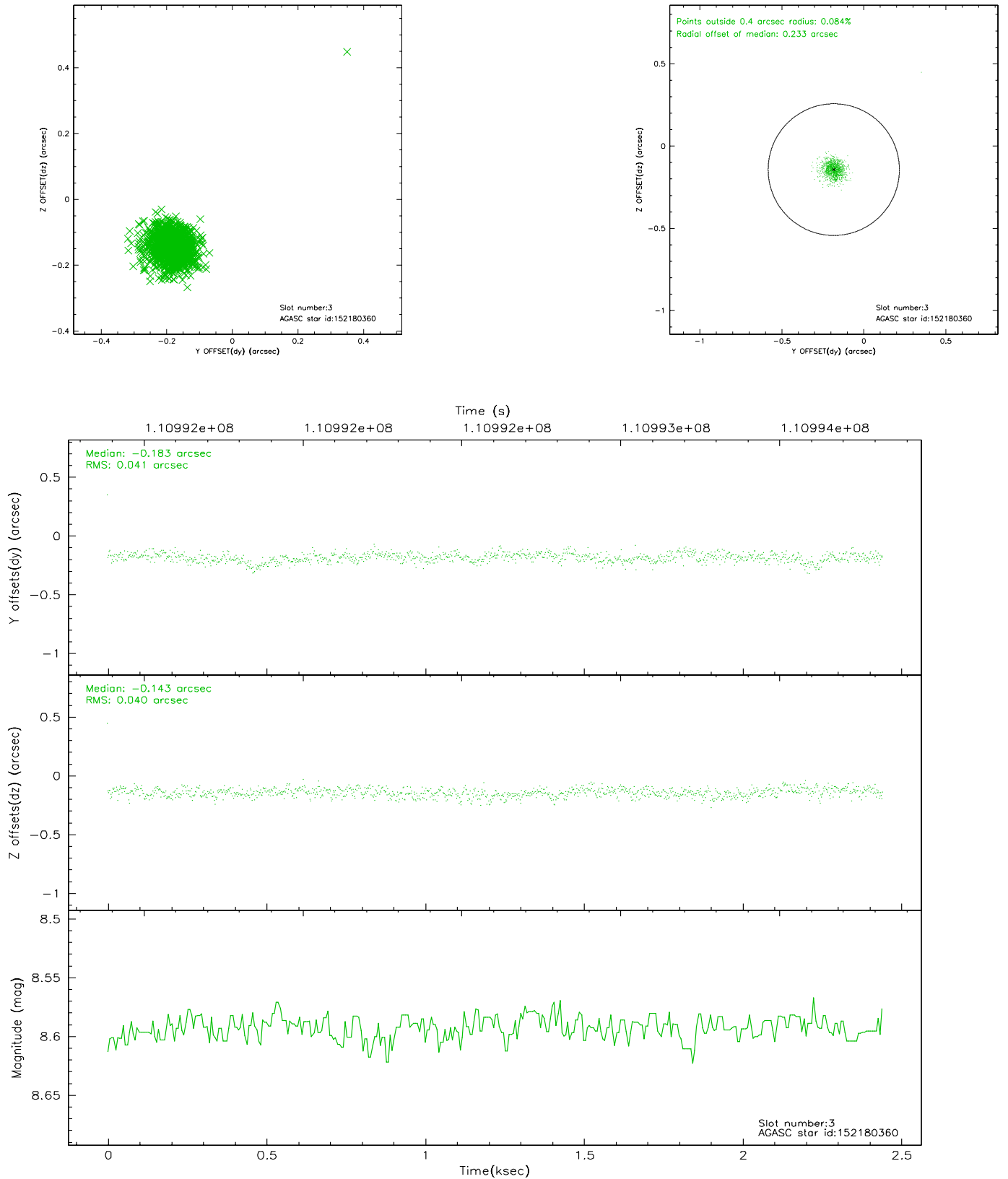
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.00	597	0.131	-0.164	0.006	0.010	0.000000	0.000000	-1157.82	-454.15
1	FID	HRC-S-3	7.02	597	0.169	-0.033	0.008	0.014	0.000000	0.000000	-1162.47	574.75
2	FID	HRC-S-4	6.94	597	0.088	-0.101	0.005	0.010	0.000000	0.000000	1238.42	579.04
3	GUIDE	152180360	8.59	1191	-0.183	-0.143	0.055	0.093	349.110181	8.037159	1566.62	83.30
4	GUIDE	76419040	9.10	1187	0.093	-0.161	0.088	0.151	349.315769	7.117648	-1694.76	1005.00
5	GUIDE	152180776	8.42	1193	0.066	0.055	0.062	0.102	349.576658	7.835091	137.40	-1036.54
6	GUIDE	152187192	8.91	1192	-0.178	0.143	0.070	0.119	349.378103	8.213055	1672.33	-1058.17
7	GUIDE	76420240	7.26	1192	0.209	0.111	0.055	0.086	349.834746	7.214951	-2262.50	-794.91

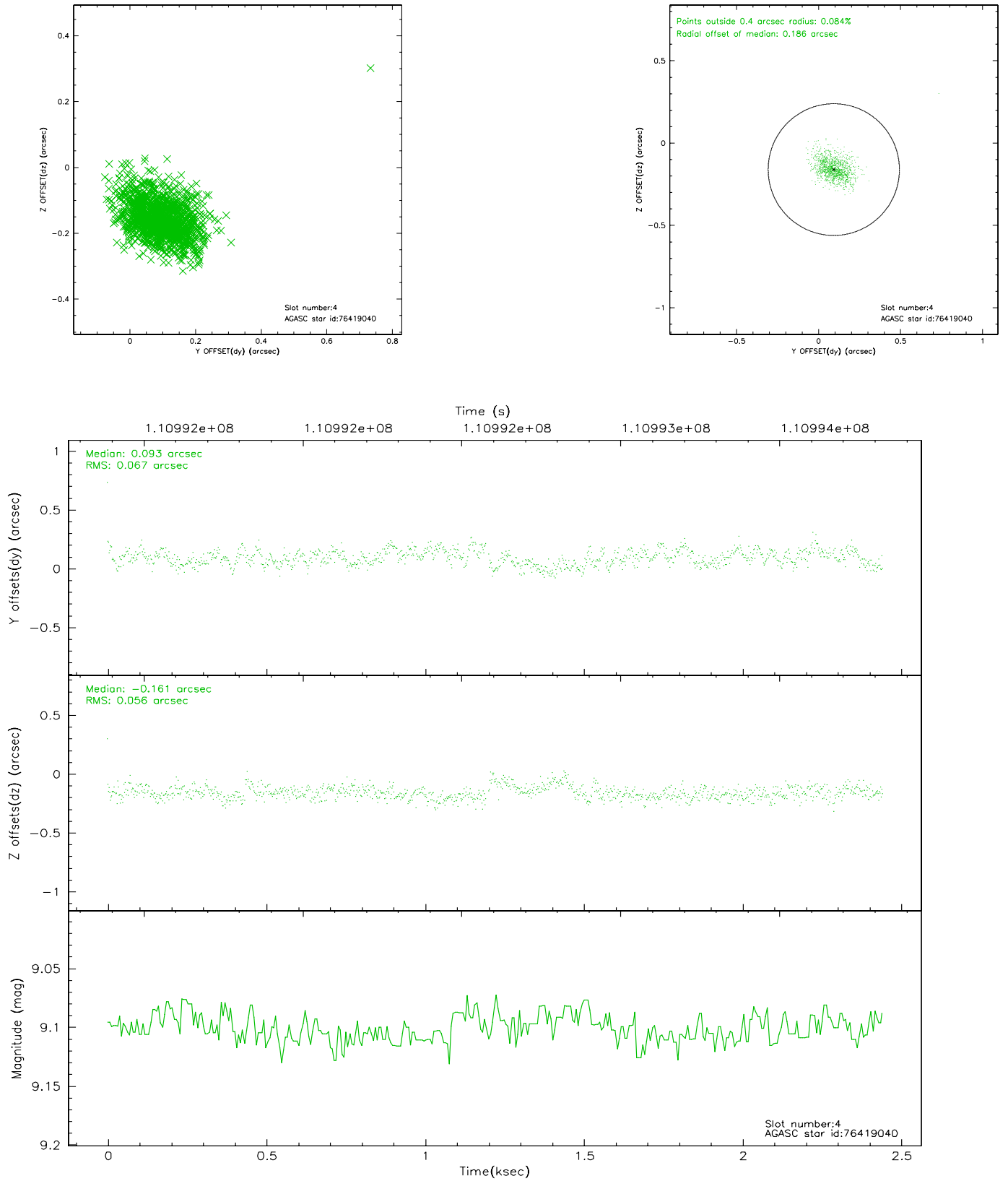


## 2.4 Star Slots

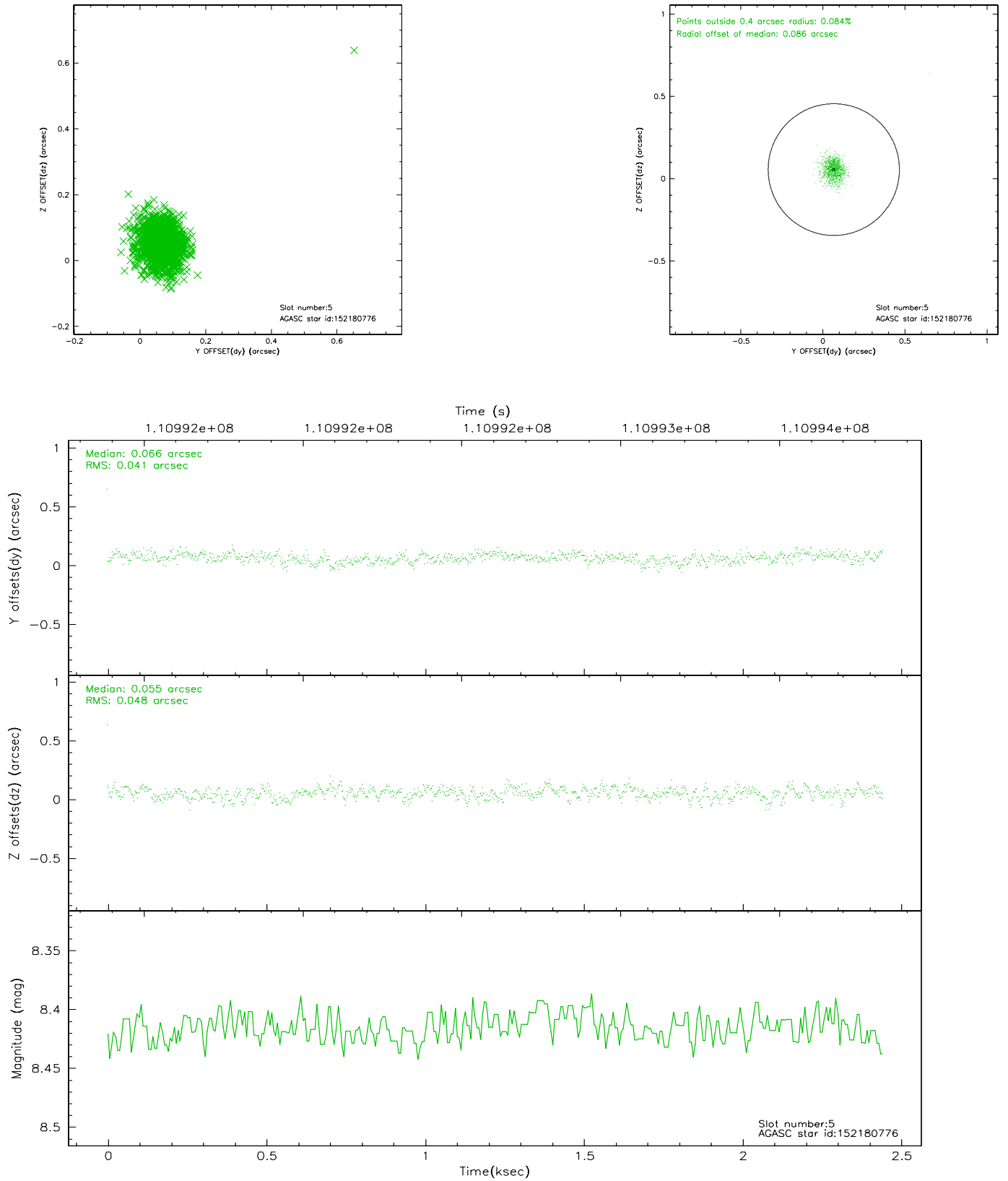
### 2.4.1 Slot 3



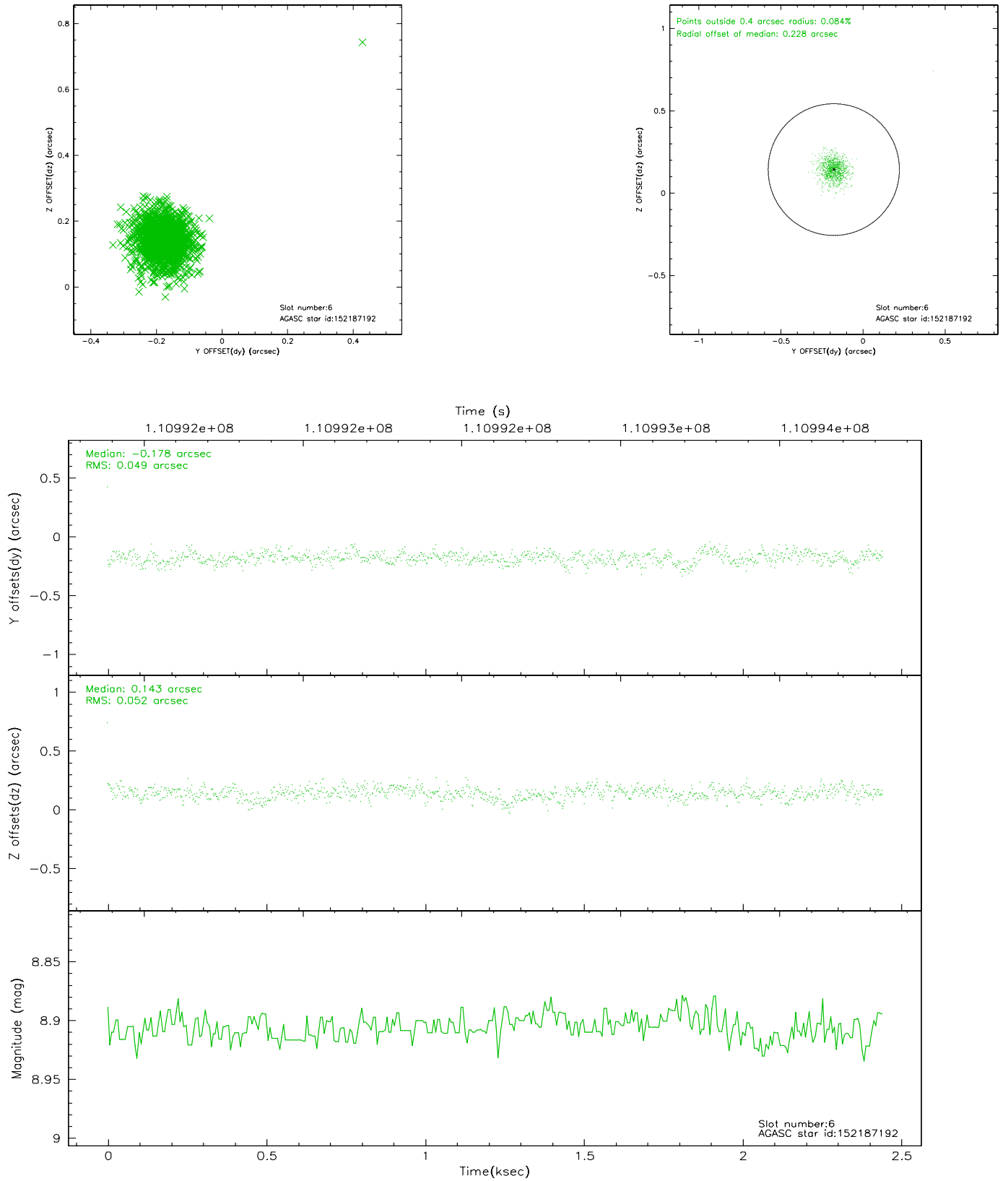
## 2.4.2 Slot 4



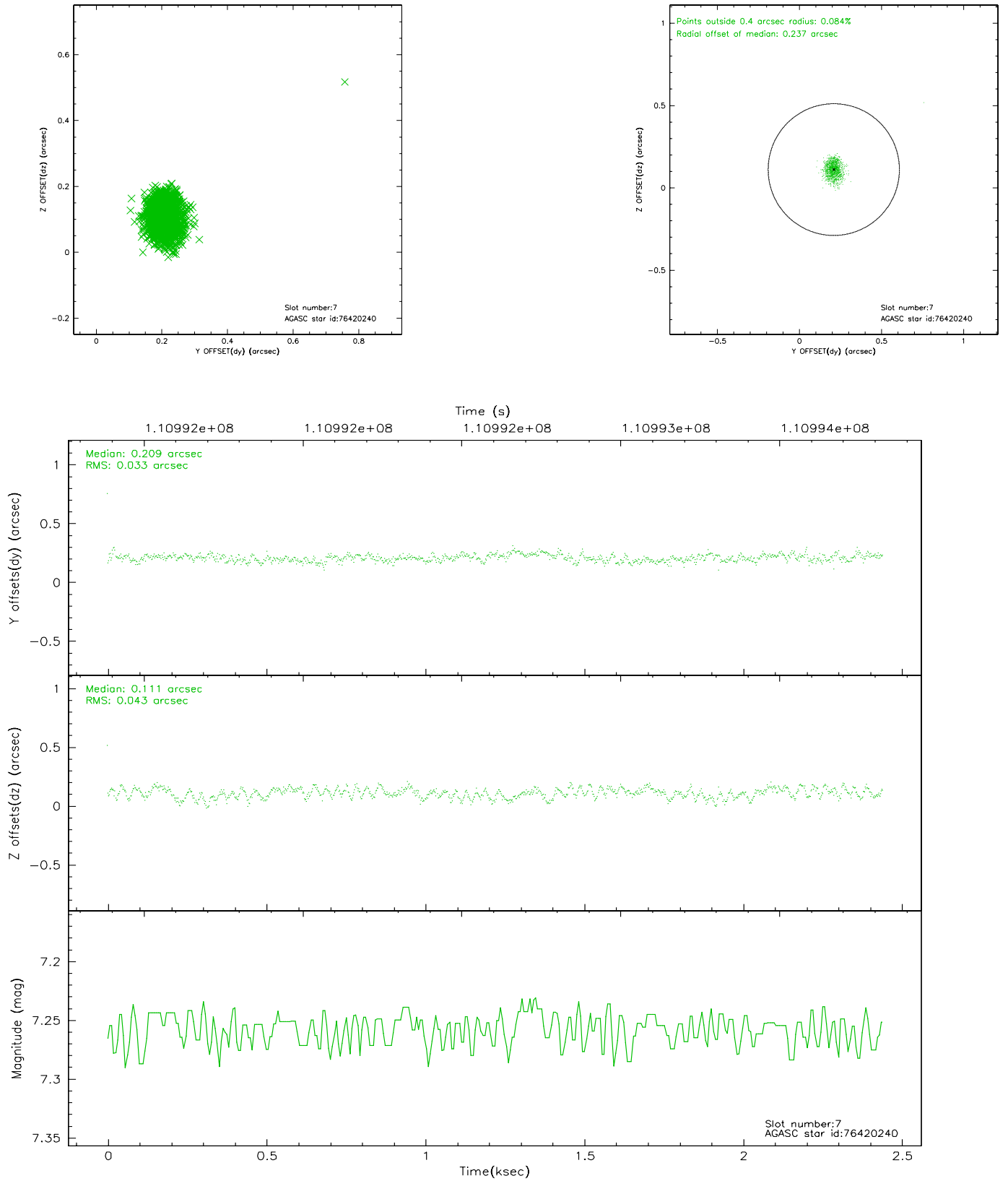
### 2.4.3 Slot 5



## 2.4.4 Slot 6

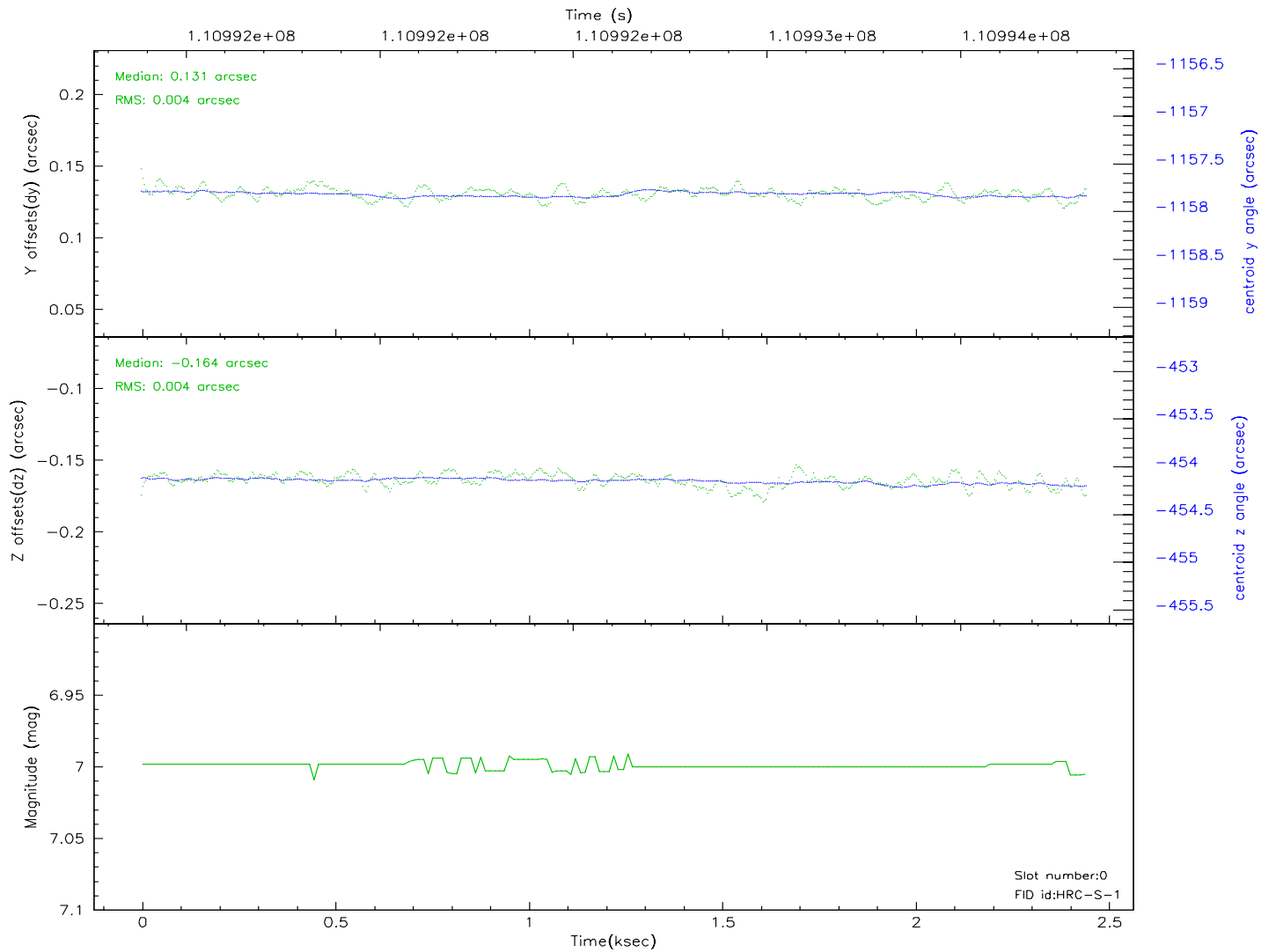
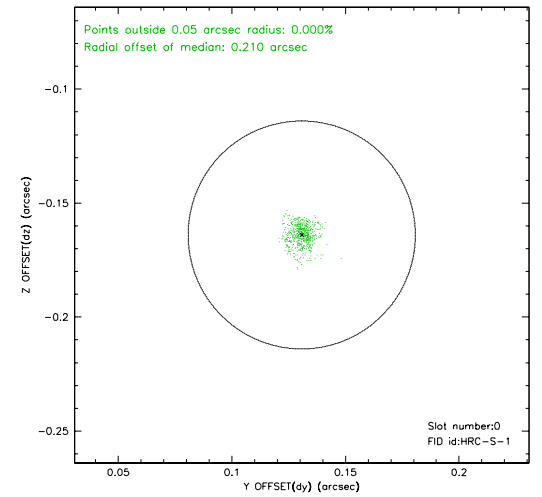
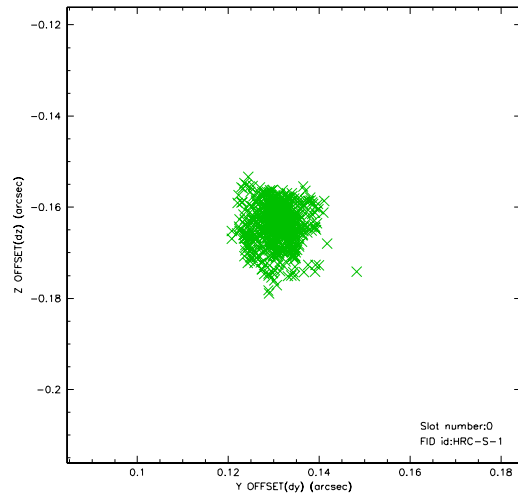


## 2.4.5 Slot 7

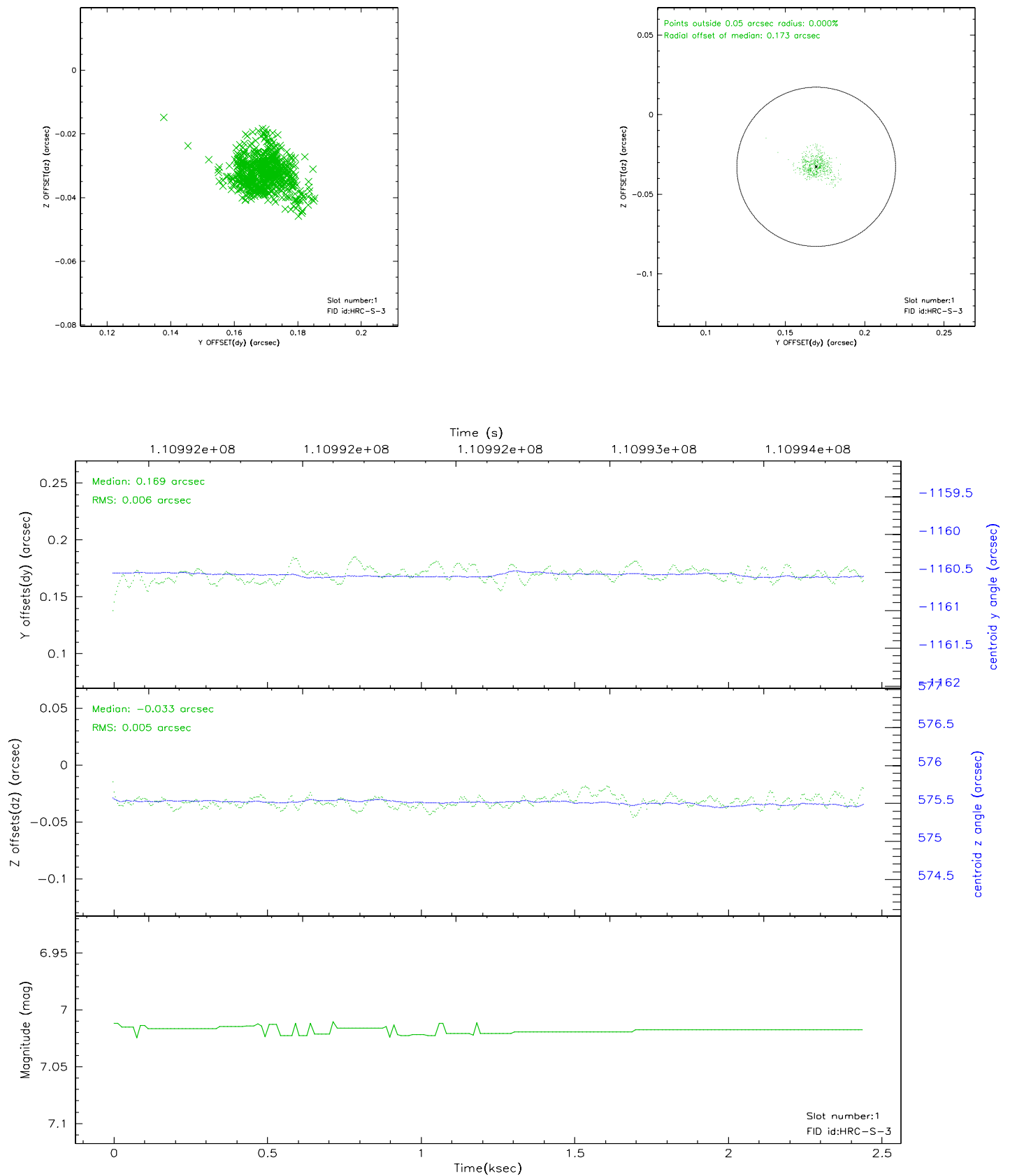


## 2.5 FID Slots

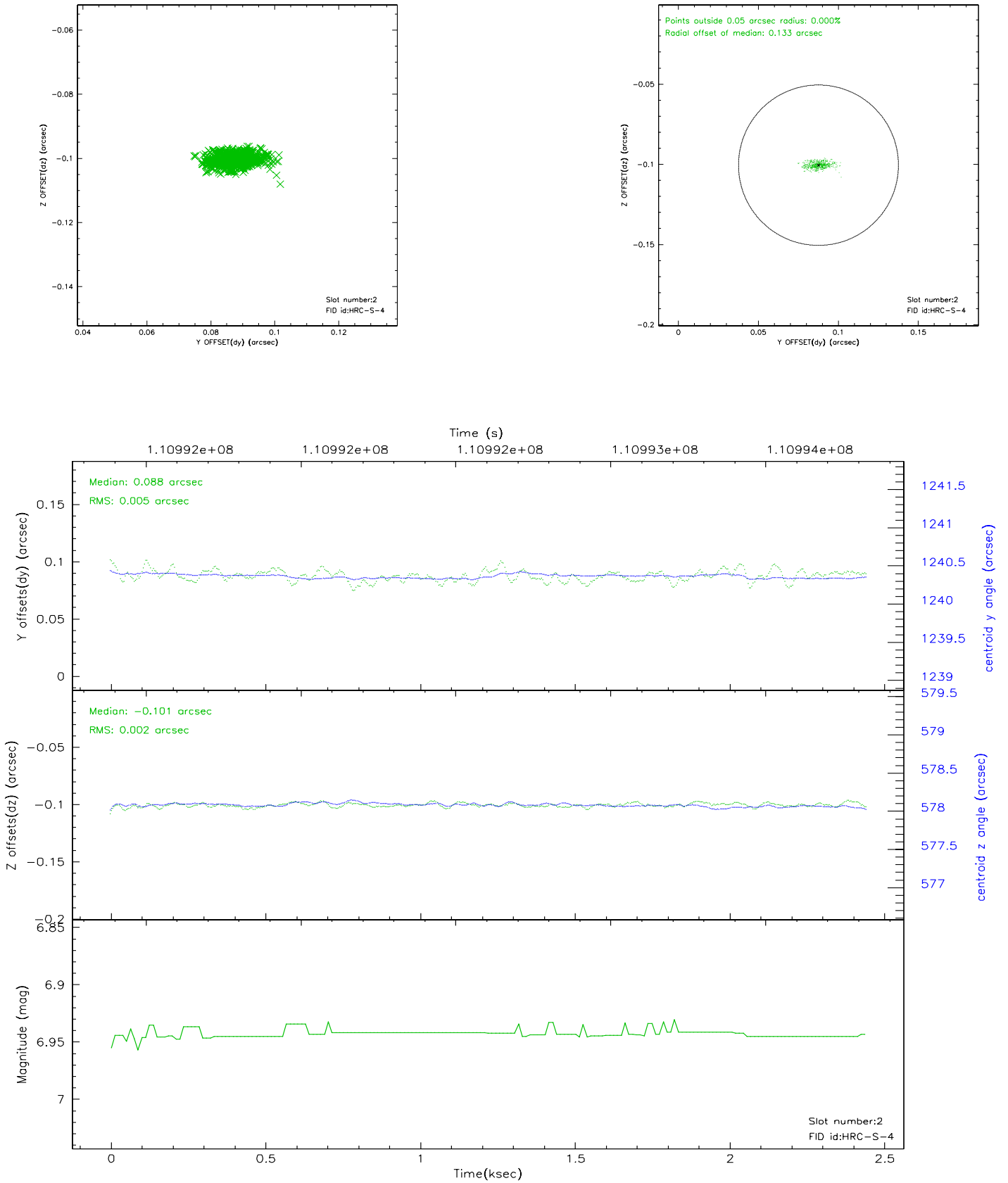
### 2.5.1 Slot 0



## 2.5.2 Slot 1



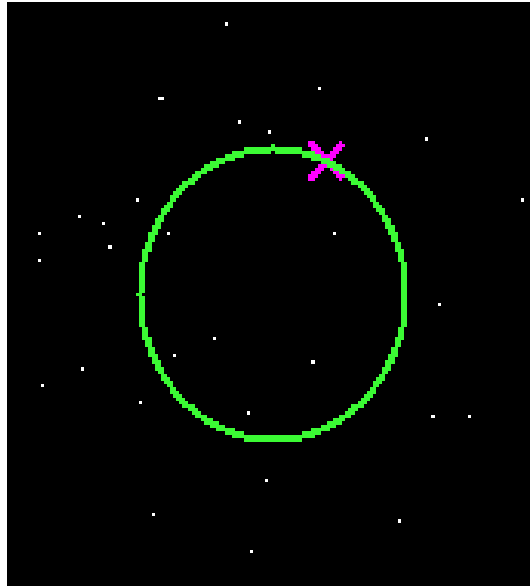
### 2.5.3 Slot 2



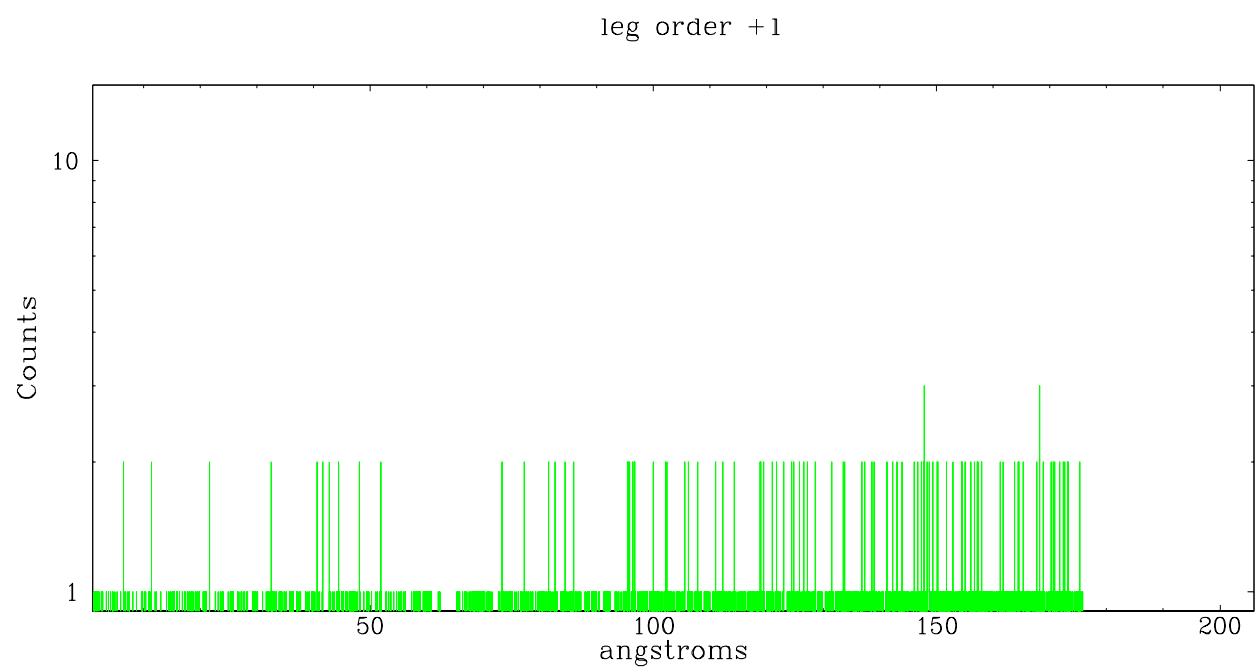
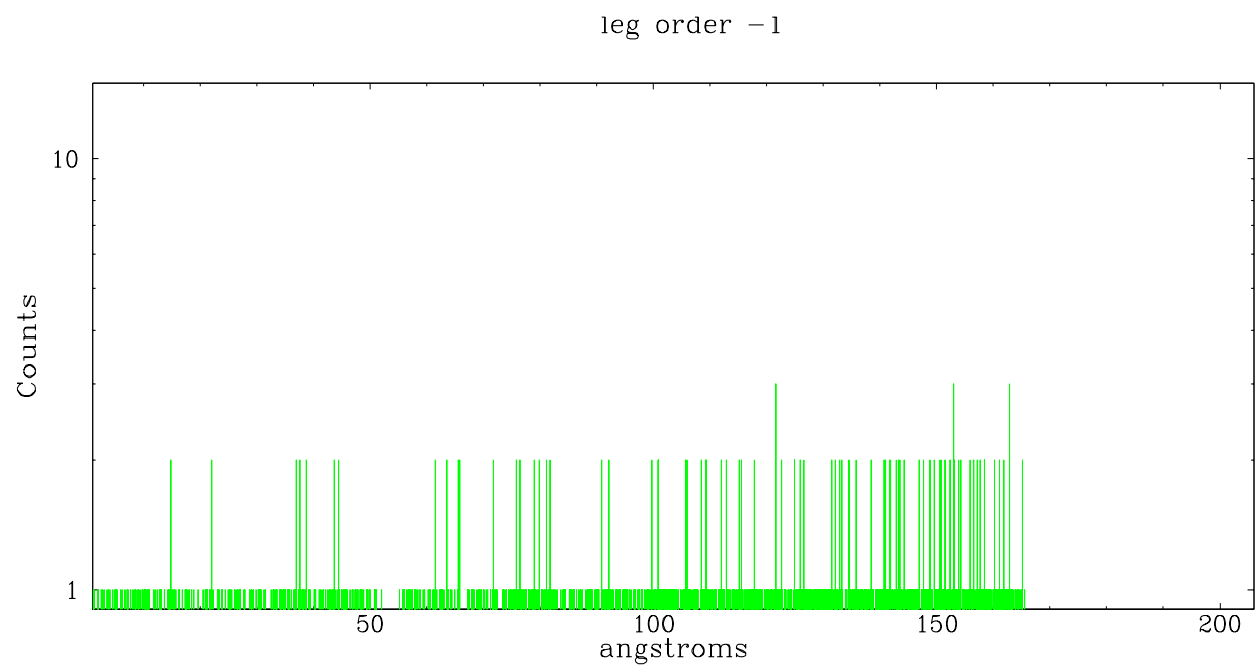


## 3 Gratings

### 3.1 LETG Arm



LETG Zero Order



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.442

## A.2 Comments

Monitor constraint met.

Tgdetect found no sources, 0th order position defaulted to ra\_targ, dec\_targ.

Users should run sso\_freeze or the equivalent on the suite of comet observations before rerunning tgdetect.