

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 1614 - L2 Version 3  
Chandra X-Ray Center

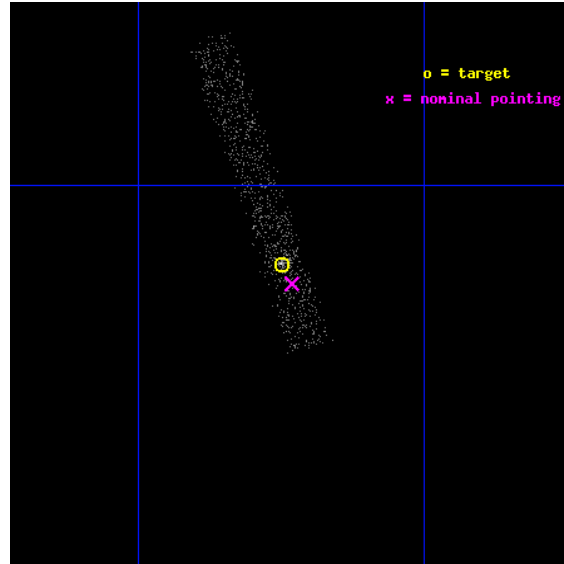
L2 Processing Date : Sep 18 2012

## 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

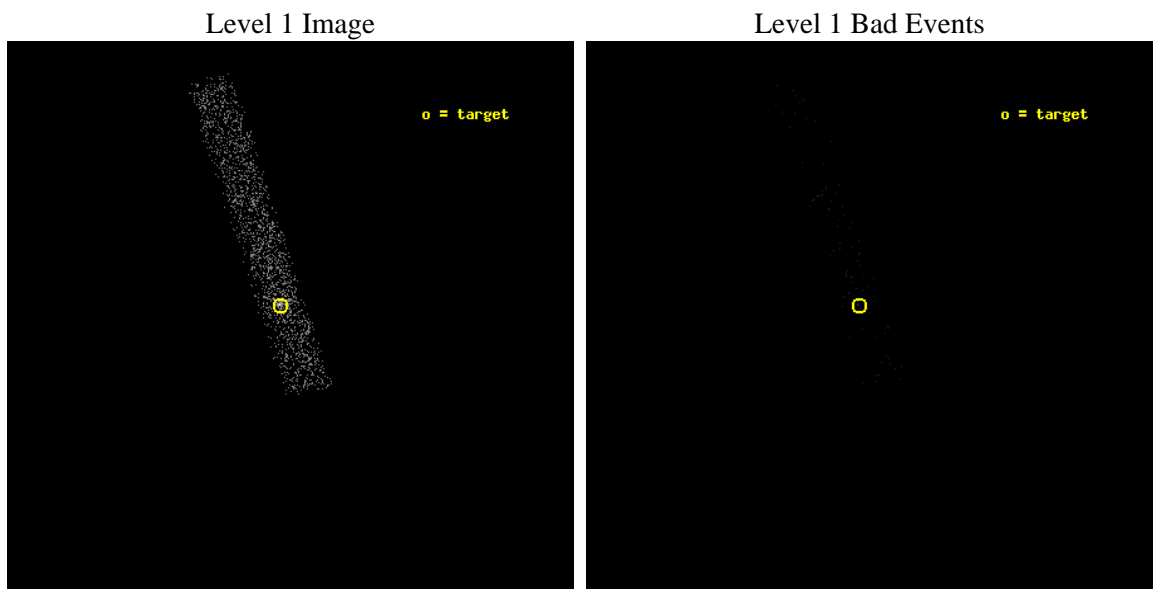
seq_num	700230	Sequence number
obs_id	1614	Observation id
title	STUDIES OF RADIO JETS AND THE NARROW LINE REGIONS OF ACTIVE GALAXIES	&#160
observer	Professor Andrew Wilson	Principal investigator
object	NGC3169	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	153.5625	Observer's specified target RA [deg]
dec_targ	3.465861	Observer's specified target Dec [deg]
ra_nom	153.55795578731	Nominal RA [deg]
dec_nom	3.4573329153262	Nominal Dec [deg]
roll_nom	251.95043167943	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2153.2000320852	Sum of GTIs [s]
livetime	1952.8387738846	Livetime [s]
ontime7	2153.2000320852	Sum of GTIs [s]
l2events	1209	Number of level 2 events



## 2 OBI

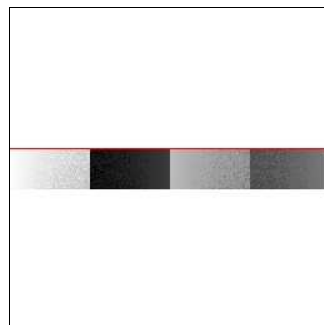
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2153.2000320852	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime7	2153.2000320852	Sum of GTIs [s]
date	2012-09-18T22:25:56	Date and time of file creation	l1events	3465	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

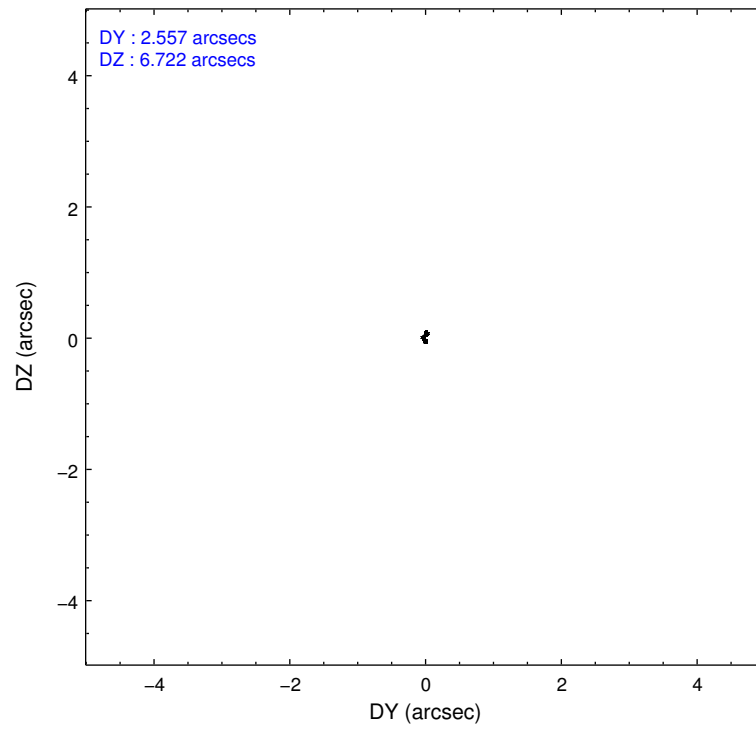
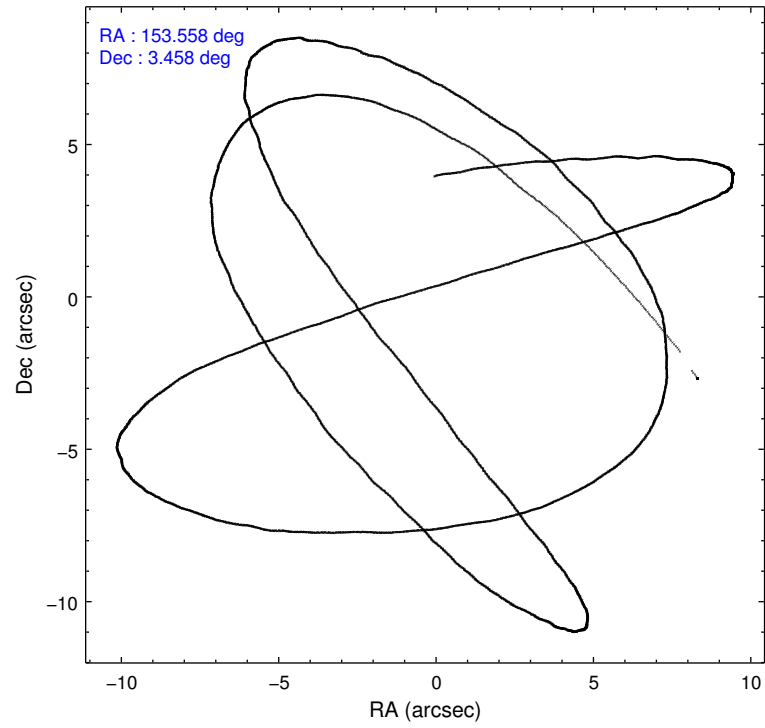
	<b>ccd 7</b>
level 1 events	3465
rejected events	2212
rejected %	63%

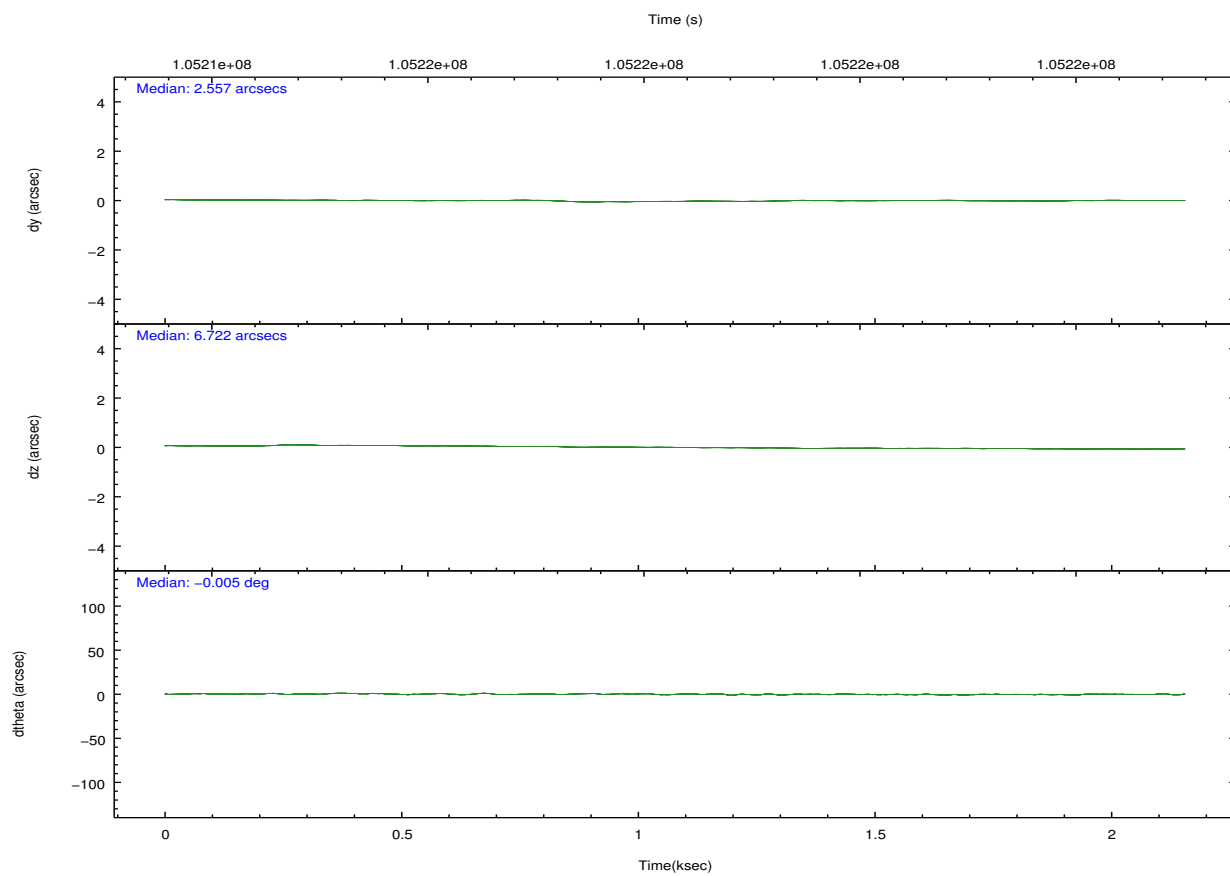
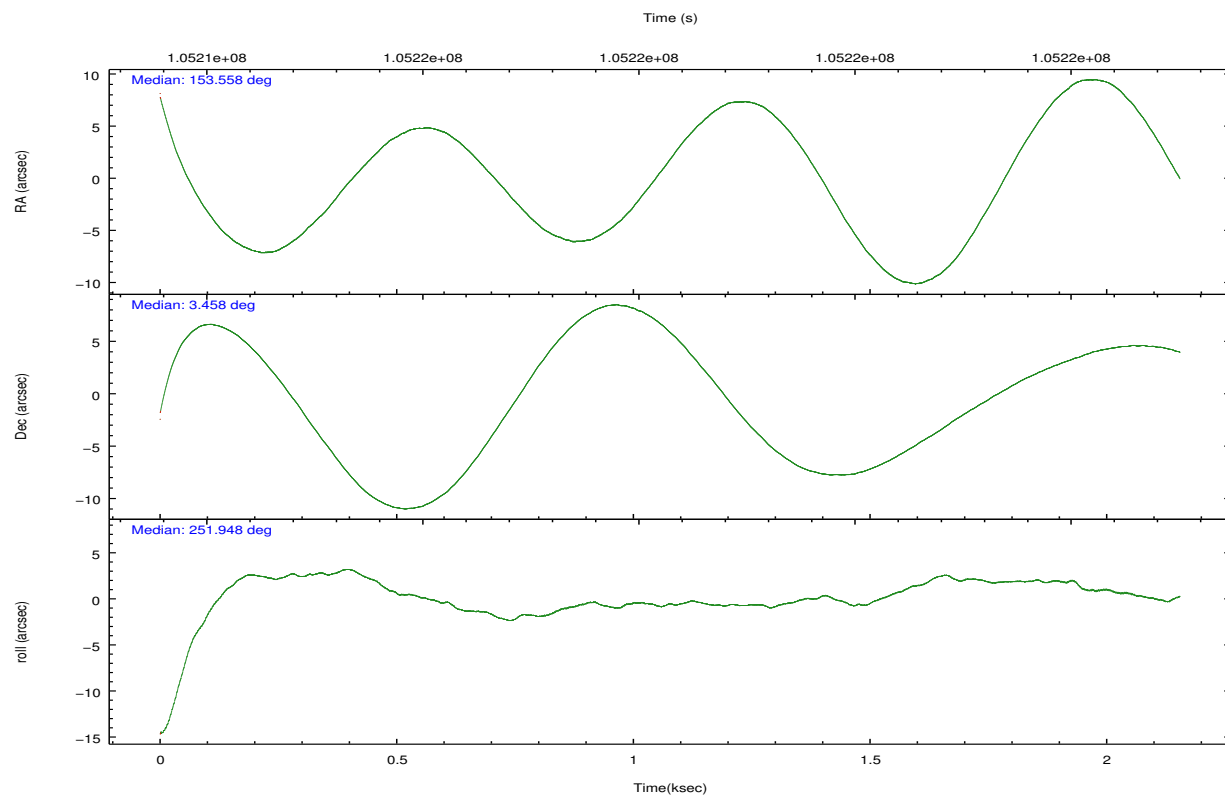
	<b>ccd 7</b>
grade 0 events	239
	6%
grade 1 events	2
	0%
grade 2 events	354
	10%
grade 3 events	229
	6%
grade 4 events	231
	6%
grade 5 events	279
	8%
grade 6 events	751
	21%
grade 7 events	1380
	39%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	153.551924	153.557955787312	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	3.483893	3.457332915326216	Subarray start row	447	447
[deg] Pointing Roll	251.794221	251.9504316794305	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	105214650.184000	105213411.35735			
Observation start date	2001-05-02T18:16:26	2001-05-02T17:56:51			
[s] Observation end time (MET)	105216650.184000	105217465.74501			
Observation end date	2001-05-02T18:49:46	2001-05-02T19:04:25			
Read mode	TIMED	TIMED			

## 2.3 Aspect





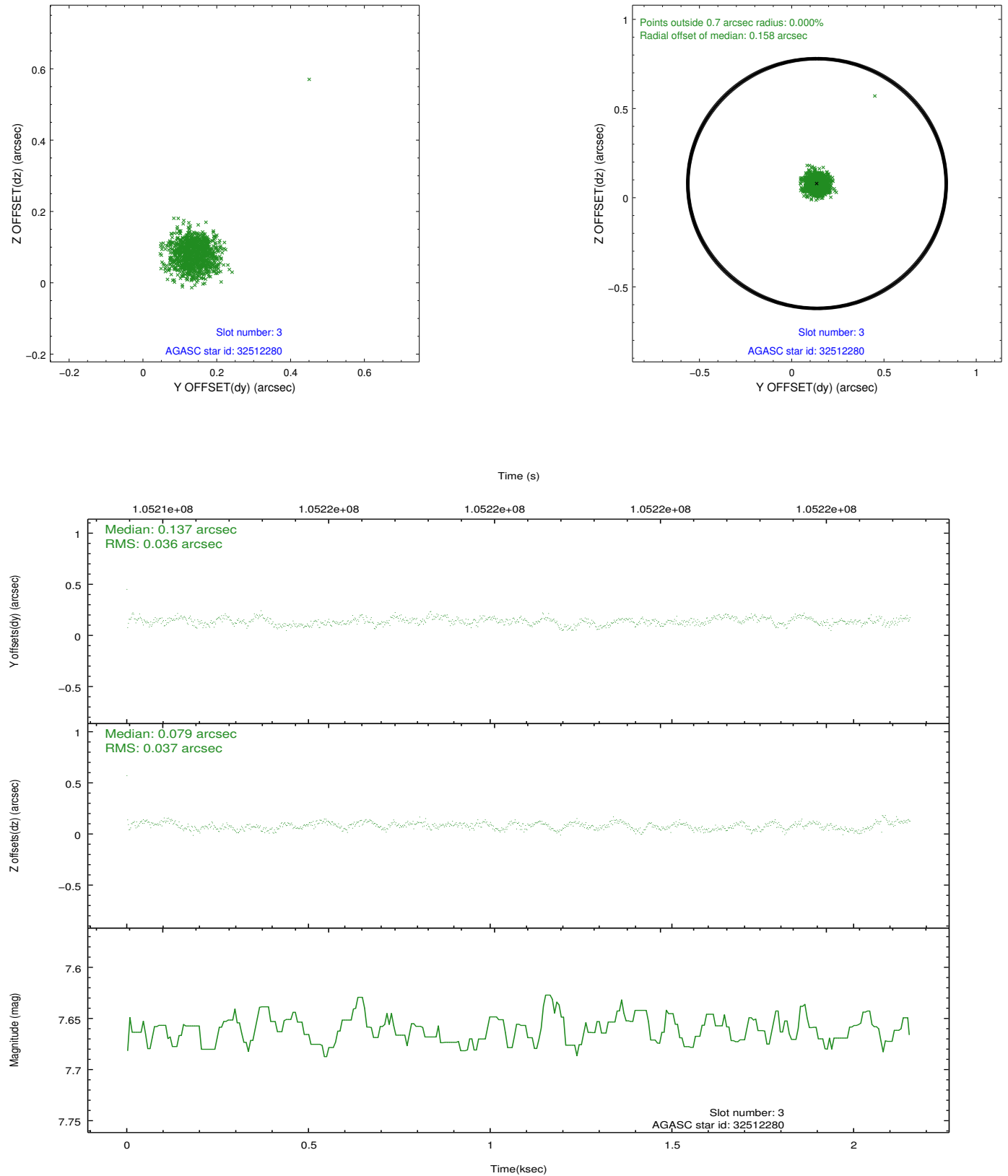
### Slot Statistics

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	526	-0.018	0.003	0.006	0.011	0.000000	0.000000	-755.18	-1727.89
1	FID	ACIS-S-4	7.19	526	-0.043	0.008	0.005	0.009	0.000000	0.000000	2156.68	177.50
2	FID	ACIS-S-5	7.23	526	0.030	-0.002	0.007	0.012	0.000000	0.000000	-1804.10	174.57
3	GUIDE	32512280	7.66	1052	0.137	0.079	0.051	0.081	153.305404	3.072725	1683.85	-379.44
4	GUIDE	32507224	7.81	1052	0.089	-0.057	0.063	0.104	153.534729	3.151296	1159.56	315.40
5	GUIDE	32513256	8.09	1052	0.082	0.068	0.048	0.079	153.261540	3.156817	1446.50	-623.39
6	GUIDE	32518416	9.93	1052	-0.171	-0.046	0.104	0.172	153.076863	3.891454	-859.09	-2080.17
7	GUIDE	32516800	9.41	1051	-0.137	-0.040	0.088	0.139	153.712885	3.923231	-1683.31	52.86

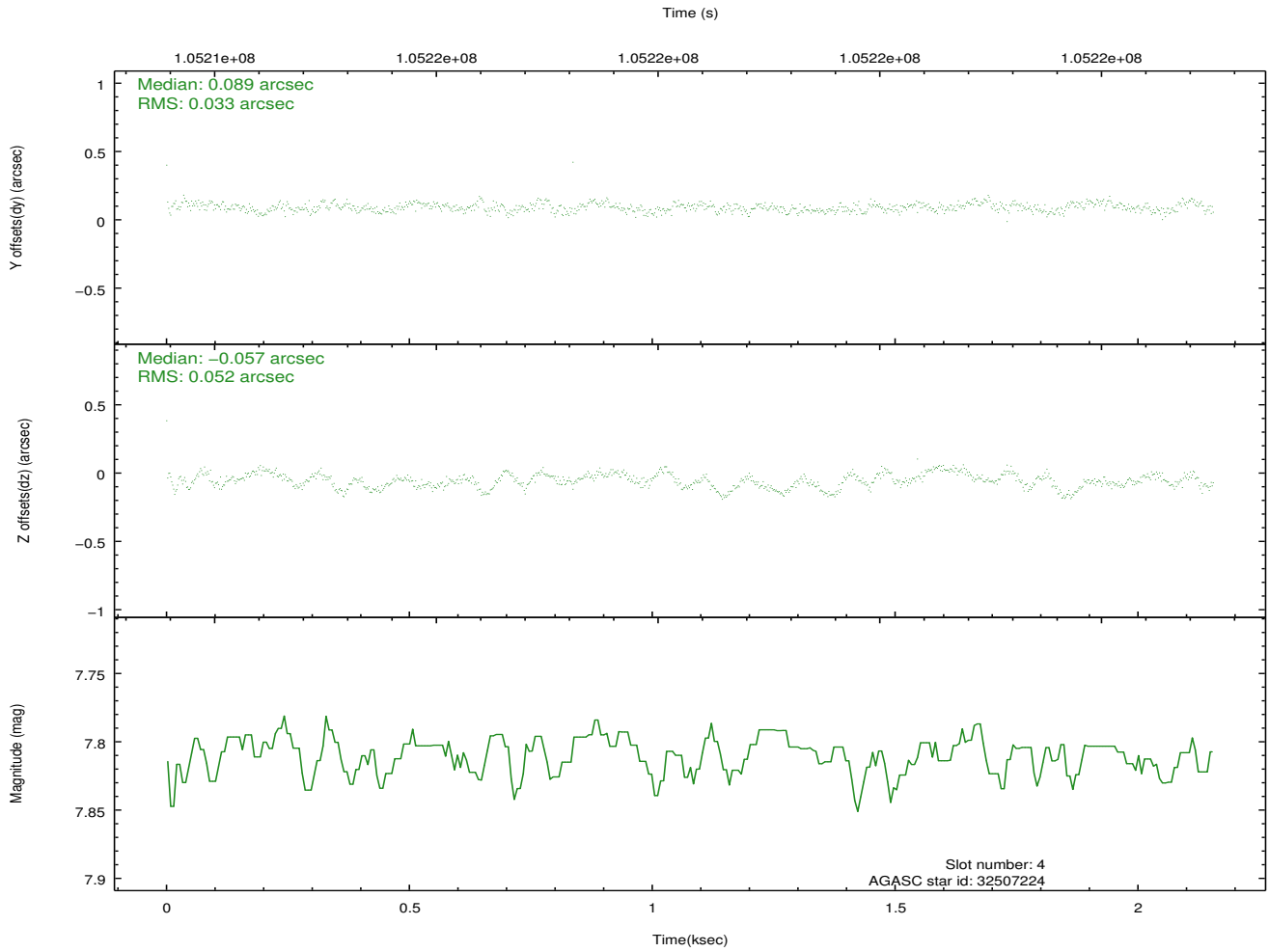
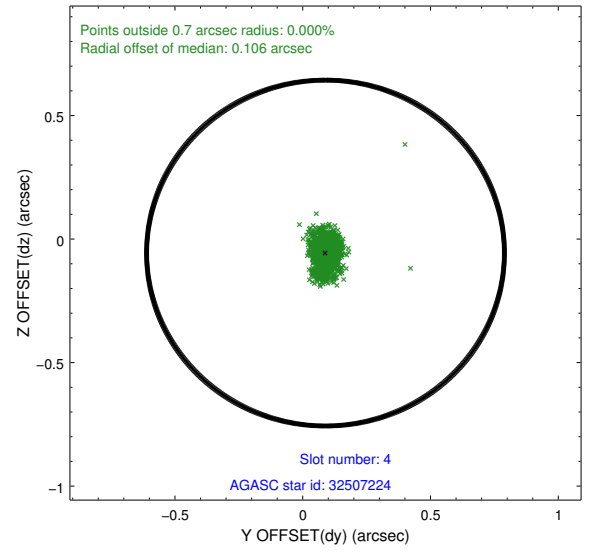
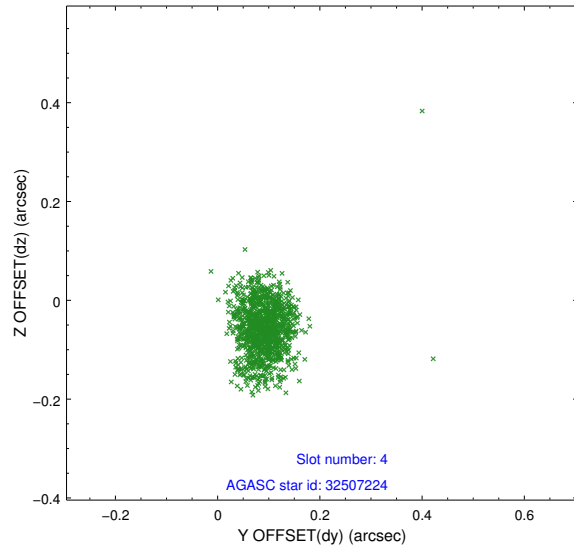


## 2.4 Star Slots

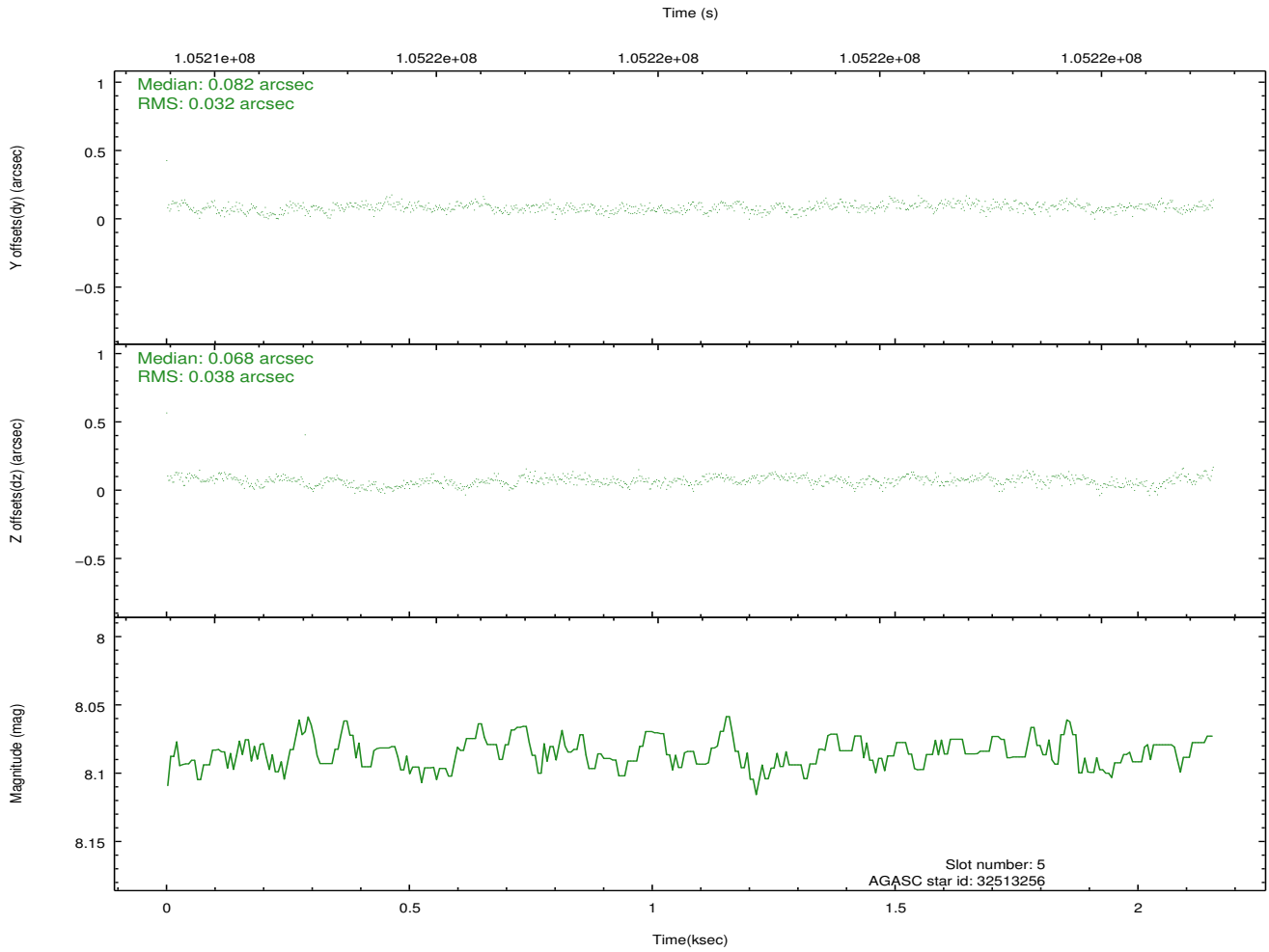
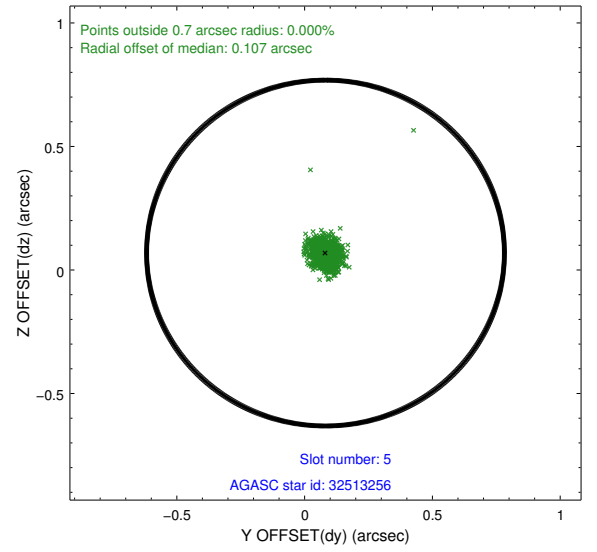
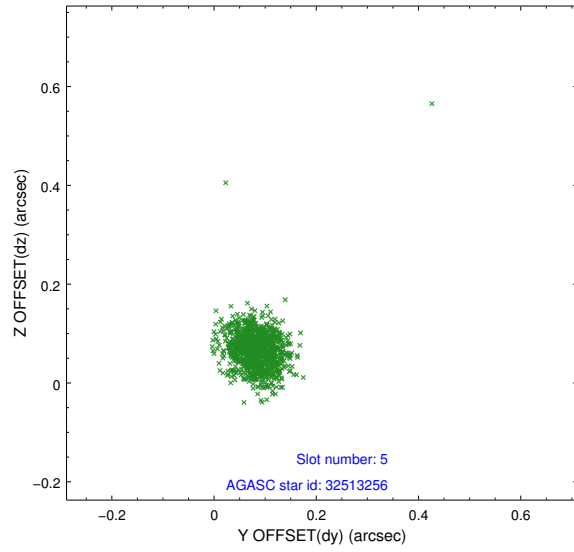
### 2.4.1 Slot 3



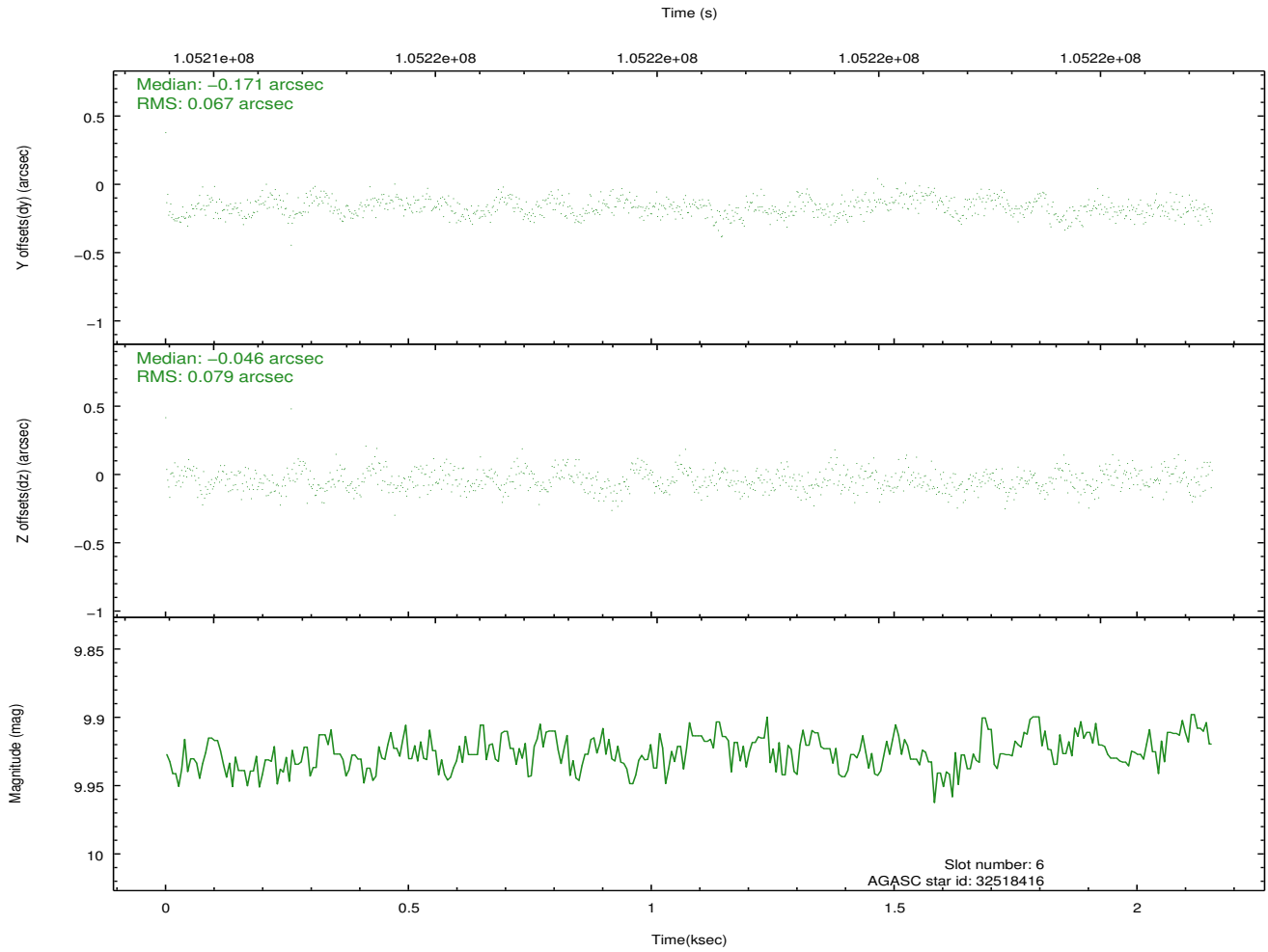
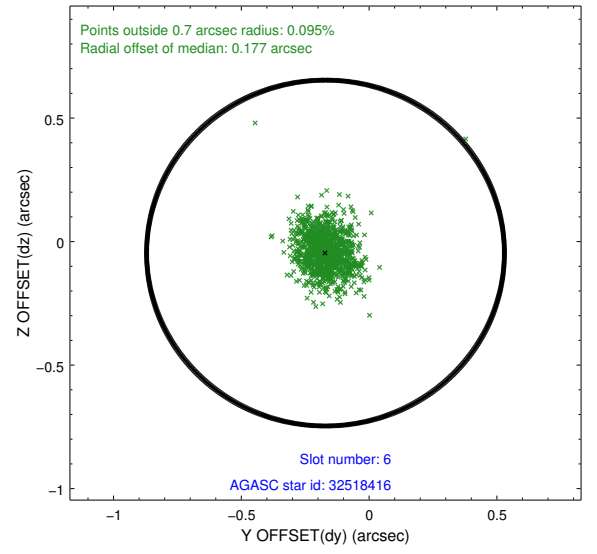
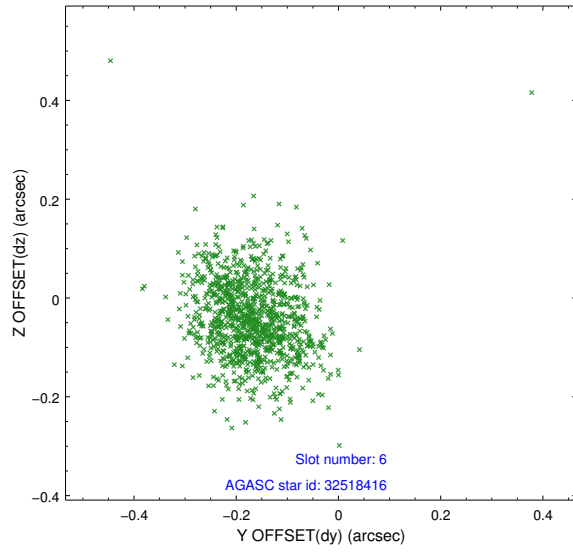
## 2.4.2 Slot 4



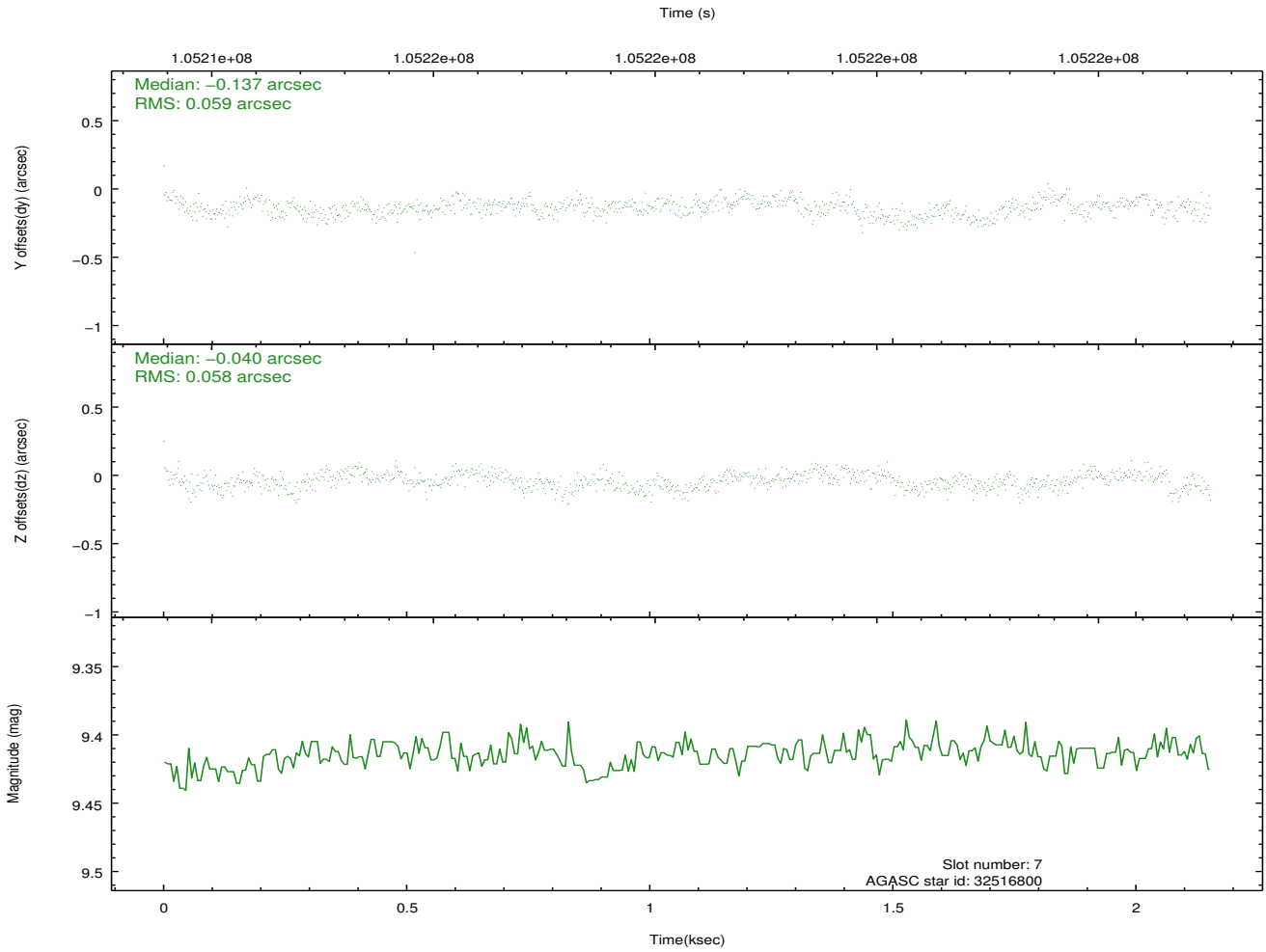
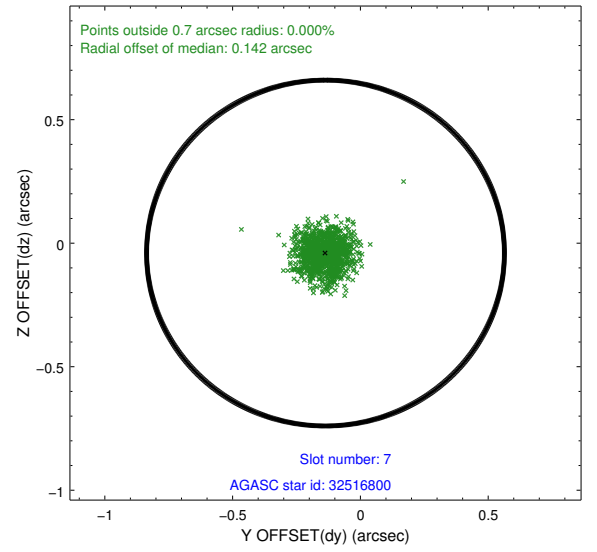
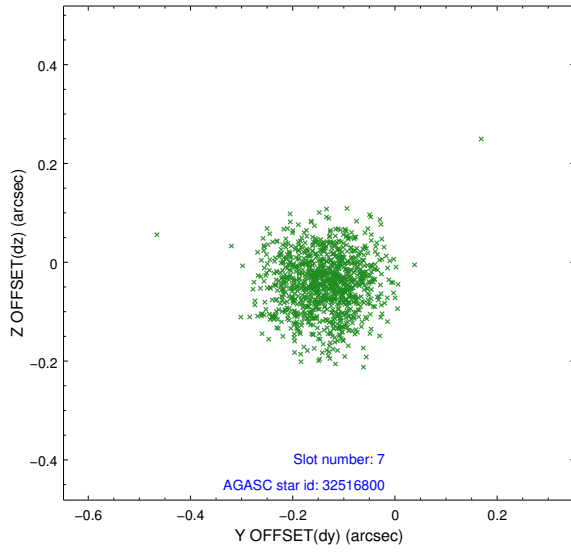
### 2.4.3 Slot 5



## 2.4.4 Slot 6

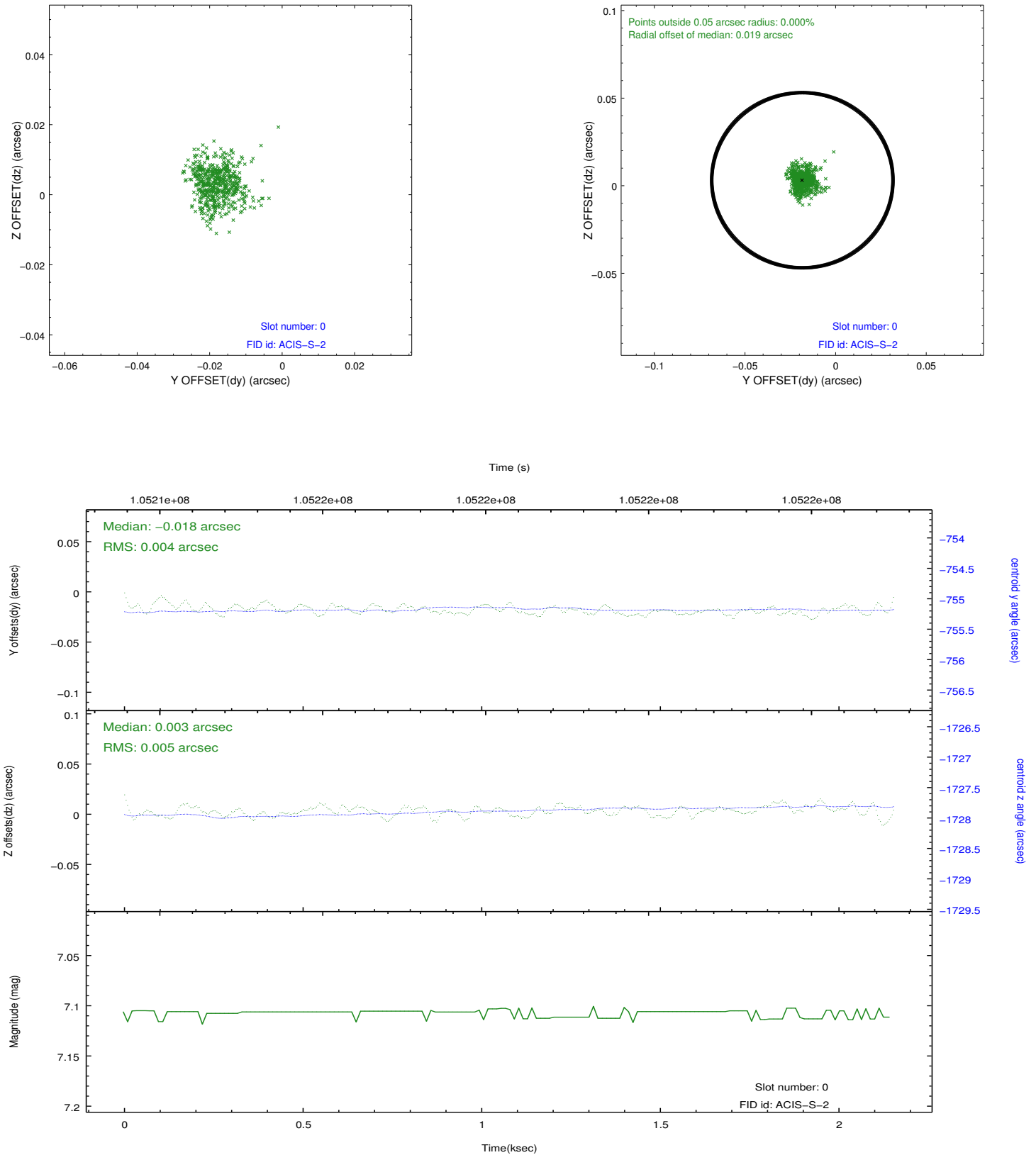


## 2.4.5 Slot 7

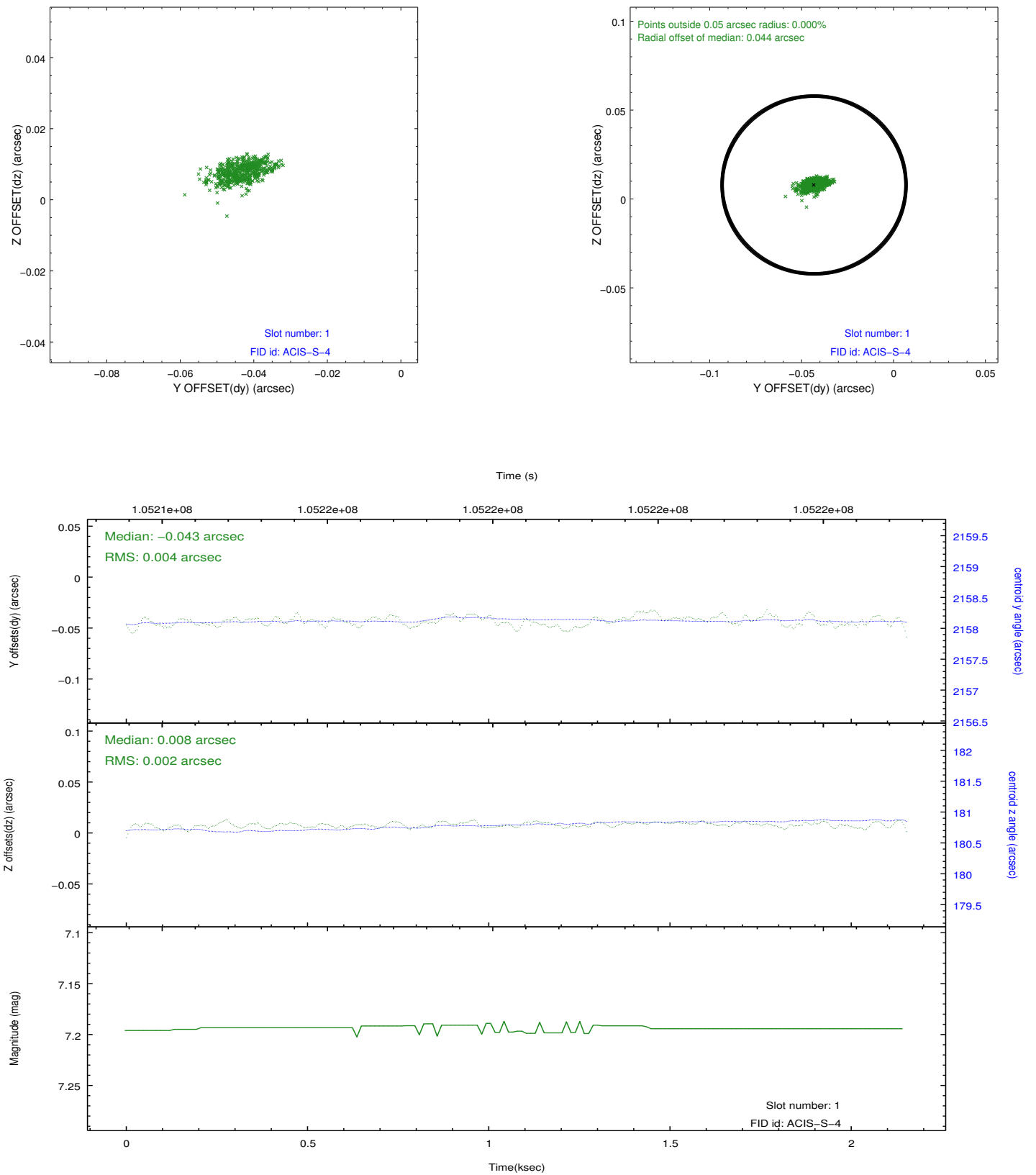


## 2.5 FID Slots

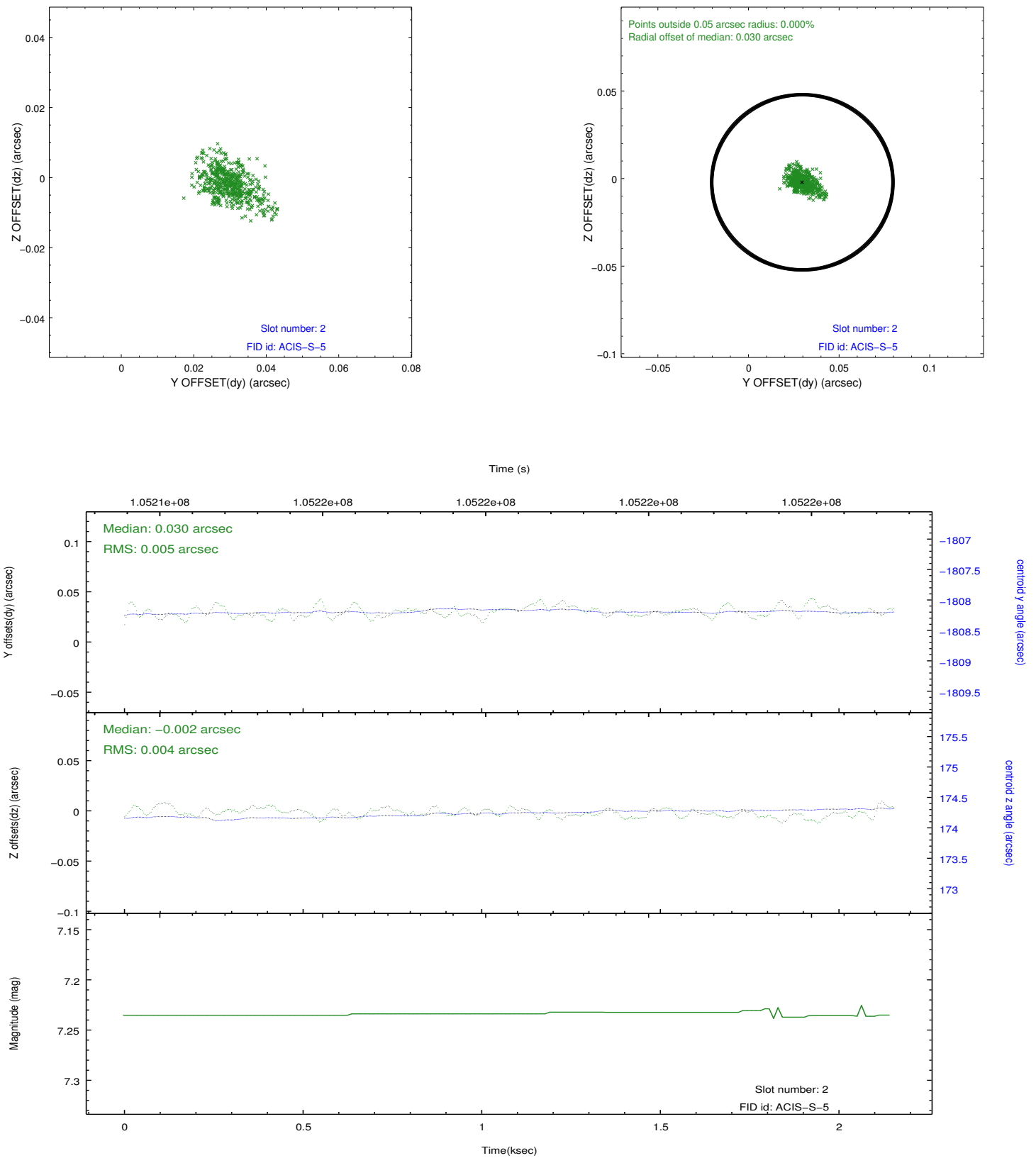
### 2.5.1 Slot 0



## 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)	2012.09.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.153

### A.2 Comments