

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10281 - L2 Version 2  
Chandra X-Ray Center

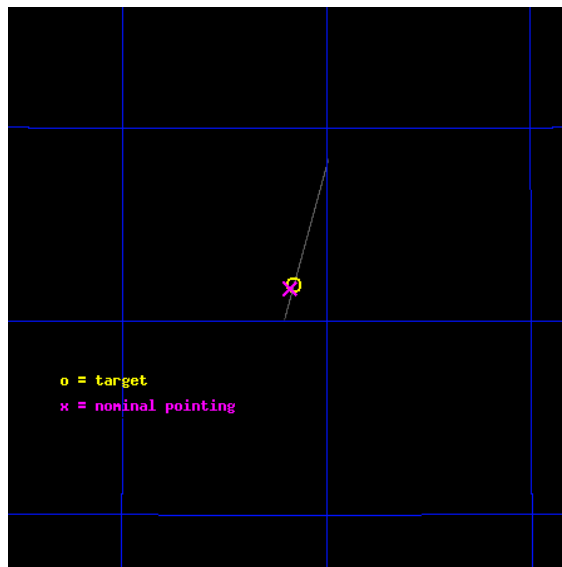
L2 Processing Date : Jun 10 2012

## 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	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>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

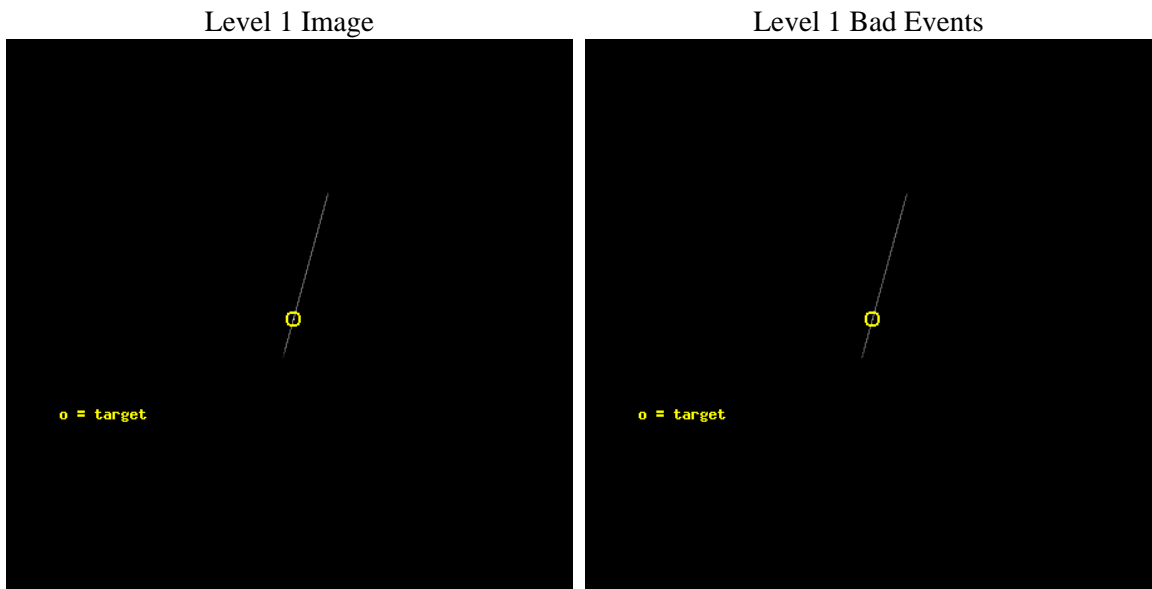
seq_num	701824	Sequence number
obs_id	10281	Observation id
title	The Disk-Jet Connection in Seyfert-1 AGN	Proposal title
observer	Dr Jon Miller	Principal investigator
object	NGC 4051	Source name
ra_targ	180.79	Observer's specified target RA [deg]
dec_targ	44.531333	Observer's specified target Dec [deg]
ra_nom	180.79503051296	Nominal RA [deg]
dec_nom	44.528006191829	Nominal Dec [deg]
roll_nom	285.46911270747	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10182.0	Sum of GTIs [s]
liveltime	10142.2265625	Livetime [s]
ontime7	10182.0	Sum of GTIs [s]
l2events	223823	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	10182.0	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime7	10182.0	Sum of GTIs [s]
date	2012-06-11T01:17:32	Date and time of file creation	l1events	246244	Number of level 1 events
revision	2	Processing version of data			

### 2.1.3 Events

	<b>ccd 7</b>
level 1 events	246244
rejected events	19961
rejected %	8%

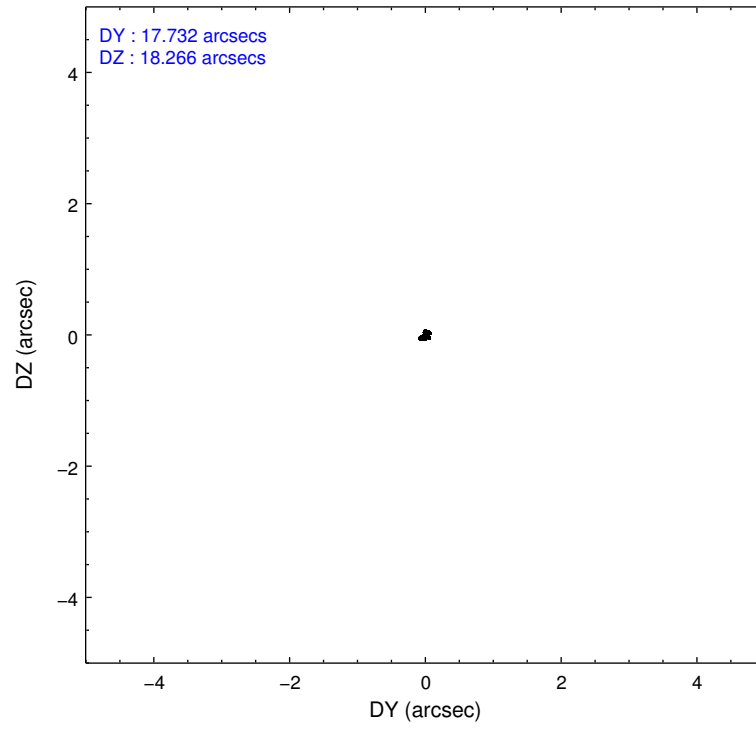
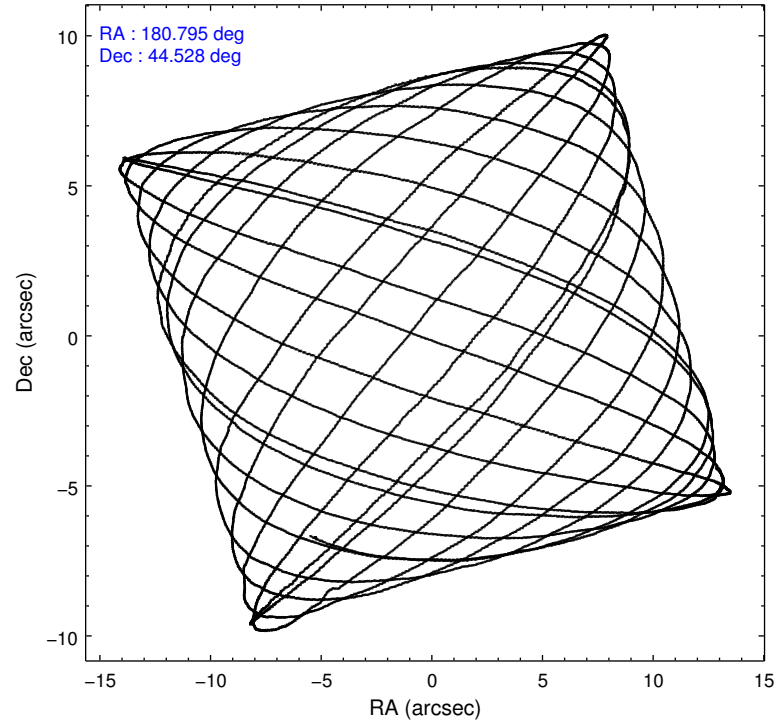
	<b>ccd 7</b>
grade 0 events	62789
	25%
grade 1 events	1306
	0%
grade 2 events	64511
	26%
grade 3 events	17836
	7%
grade 4 events	17440
	7%
grade 5 events	13961
	5%
grade 6 events	68401
	27%
grade 7 events	0
	0%

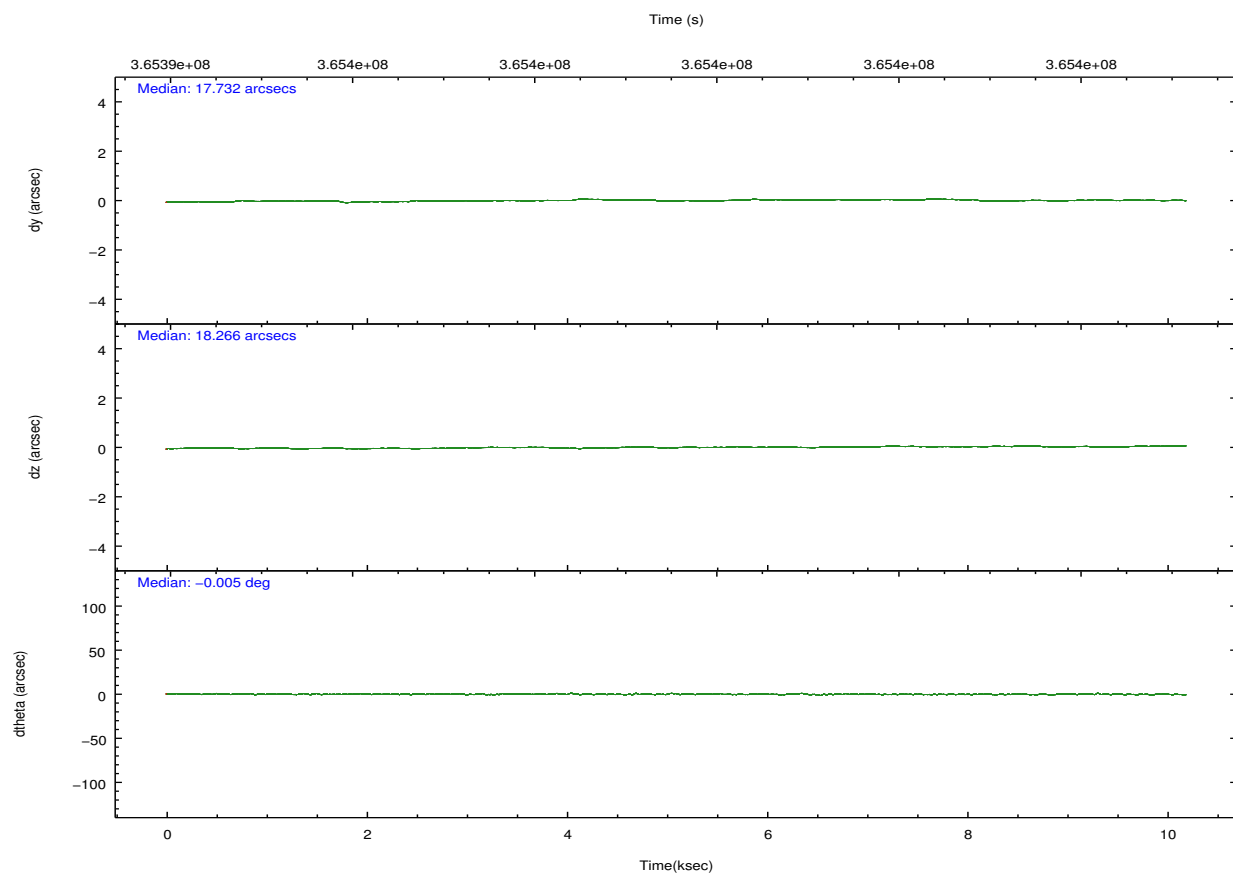
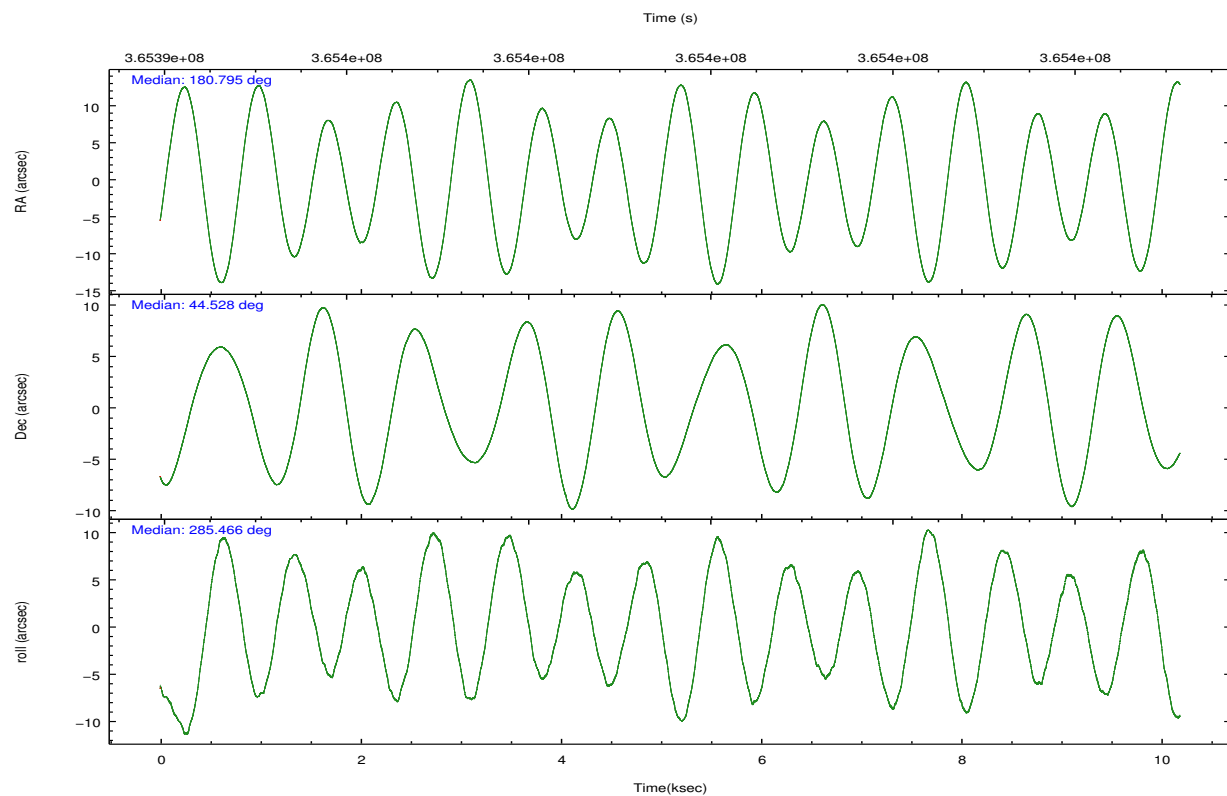


## 2.2 Compared Parameters

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	CC33_GRADED	CC33_GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	180.767268	180.7950305129555	Subarray requested	NONE	NONE
[deg] Pointing Dec	44.546947	44.52800619182923	Alternating exposures requested	N	N
[deg] Pointing Roll	285.331962	285.4691127074682	[s] Primary exposure time	0.000000	0
[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)	365394642.184000	365393921.1928			
Observation start date	2009-07-31T02:29:36	2009-07-31T02:18:41			
[s] Observation end time (MET)	365404642.184000	365405684.60589			
Observation end date	2009-07-31T05:16:16	2009-07-31T05:34:44			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Aspect



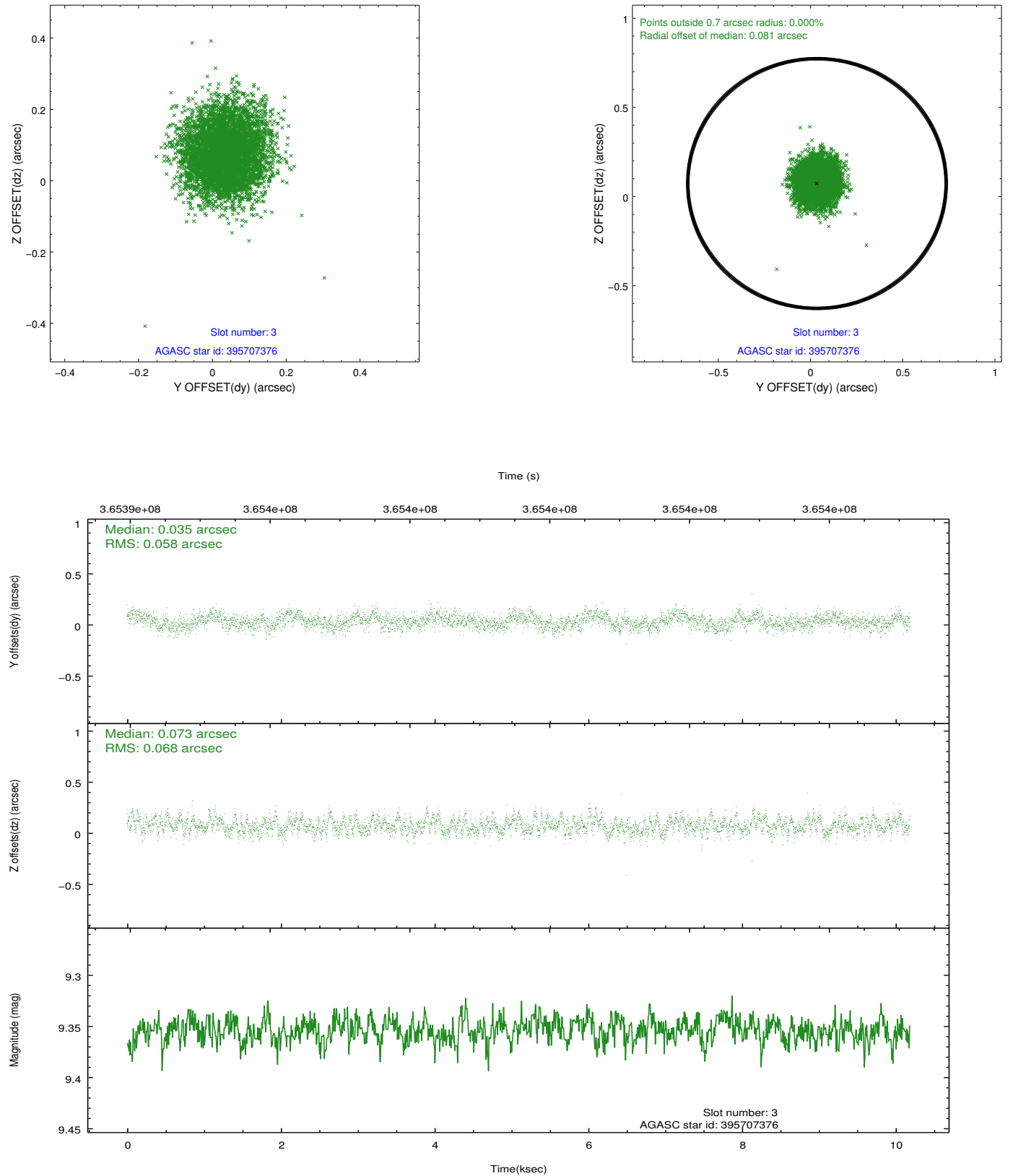


Slot Statistics

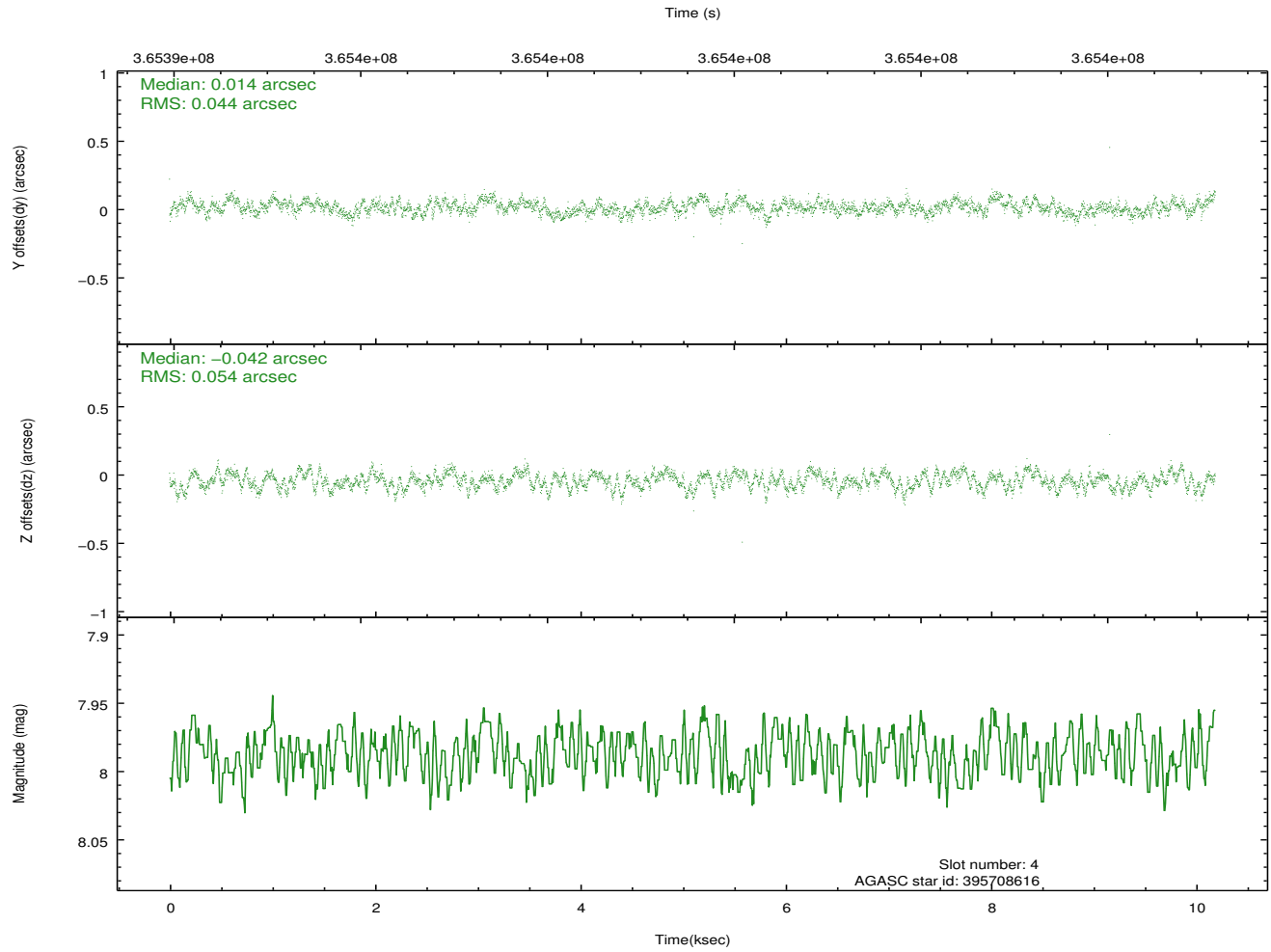
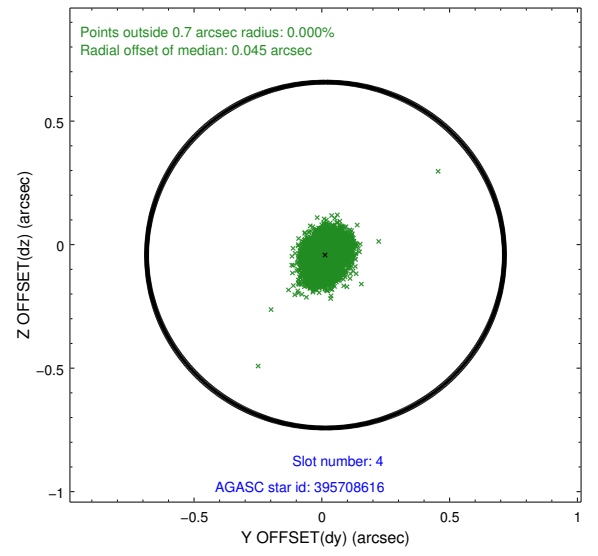
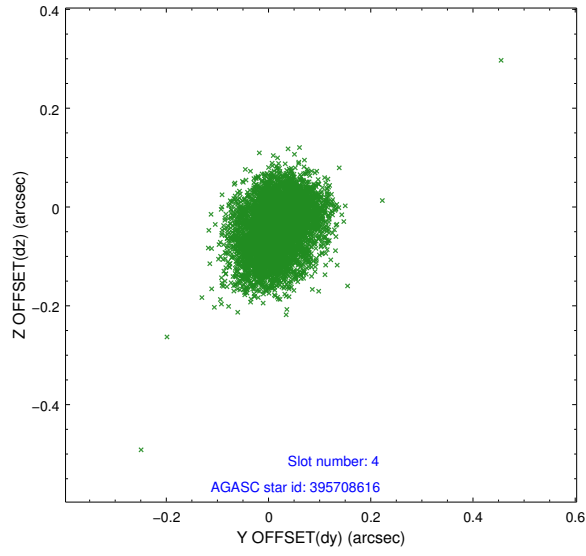
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.94	2486	0.080	0.005	0.007	0.011	0.000000	0.000000	925.31	-1735.37
1	FID	ACIS-S-4	6.94	2486	0.084	-0.037	0.006	0.010	0.000000	0.000000	2143.03	168.19
2	FID	ACIS-S-5	6.98	2486	-0.191	0.045	0.006	0.010	0.000000	0.000000	-1823.15	162.50
3	GUIDE	395707376	9.35	4963	0.035	0.073	0.096	0.152	180.967983	44.858789	-947.30	790.80
4	GUIDE	395708616	7.99	4967	0.014	-0.042	0.075	0.116	180.101872	44.630343	-746.87	-1562.61
5	GUIDE	395708696	8.89	4903	0.017	-0.047	0.094	0.153	180.383726	44.624291	-530.37	-873.95
6	GUIDE	395709608	8.35	4968	-0.102	0.037	0.072	0.114	181.055130	44.450389	529.57	621.80
7	GUIDE	395710032	8.80	4961	0.041	-0.019	0.090	0.141	181.512910	44.376001	1092.67	1690.16

## 2.4 Star Slots

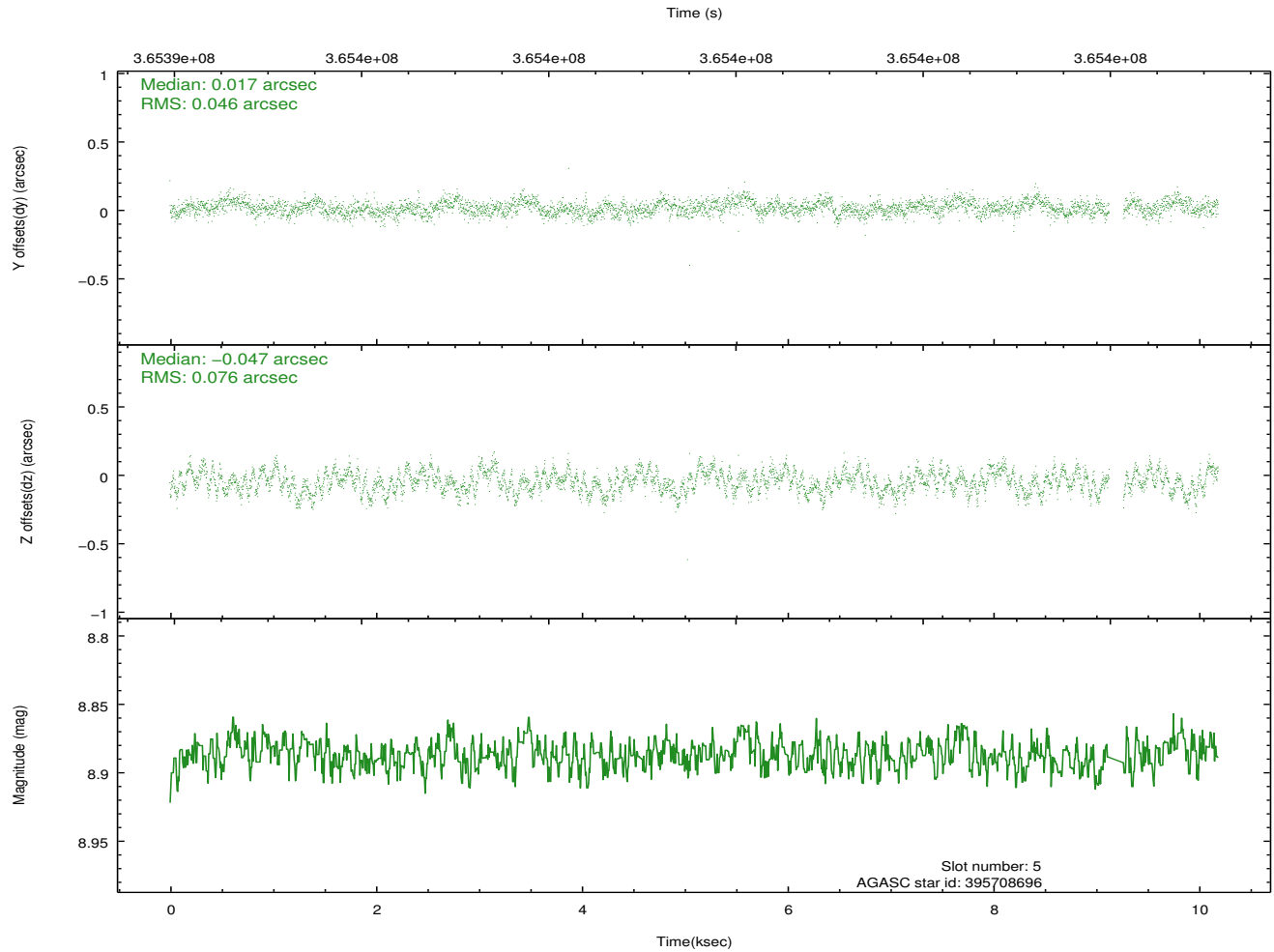
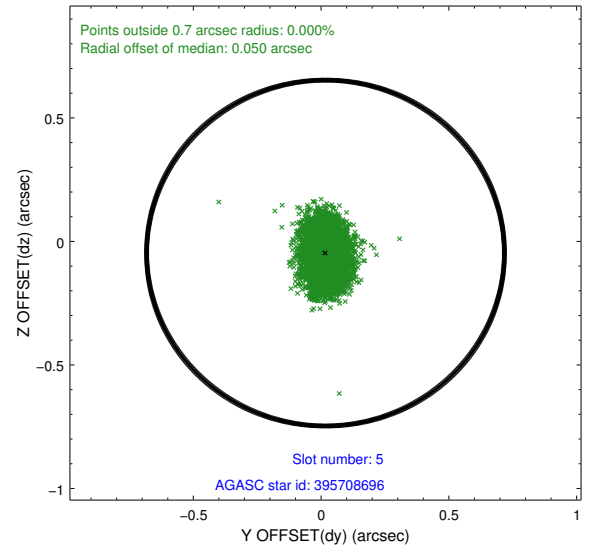
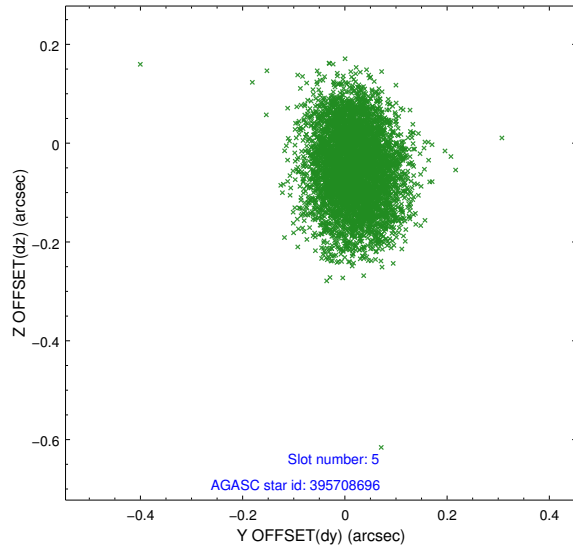
### 2.4.1 Slot 3



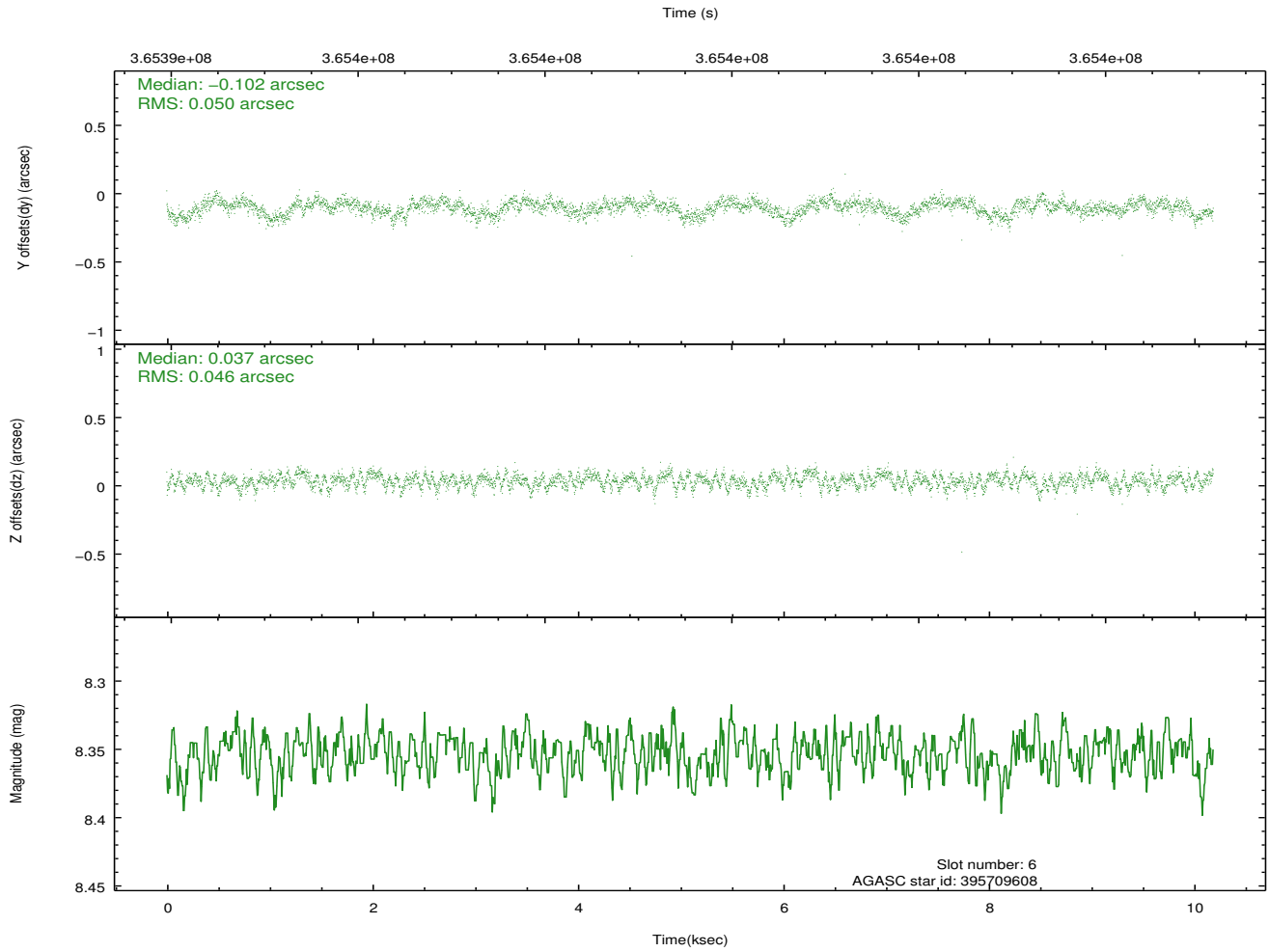
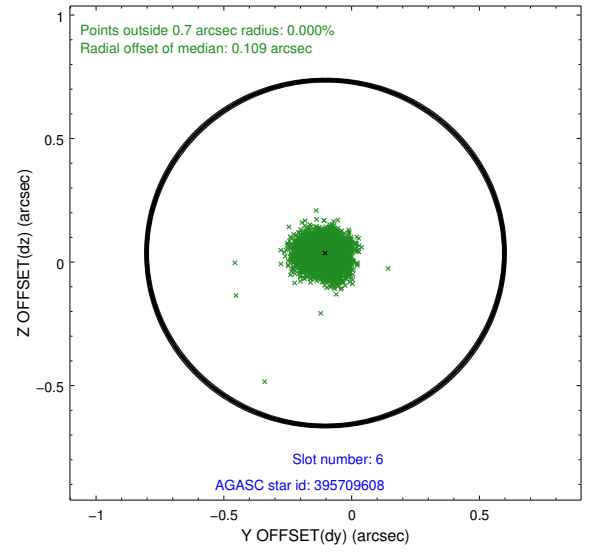
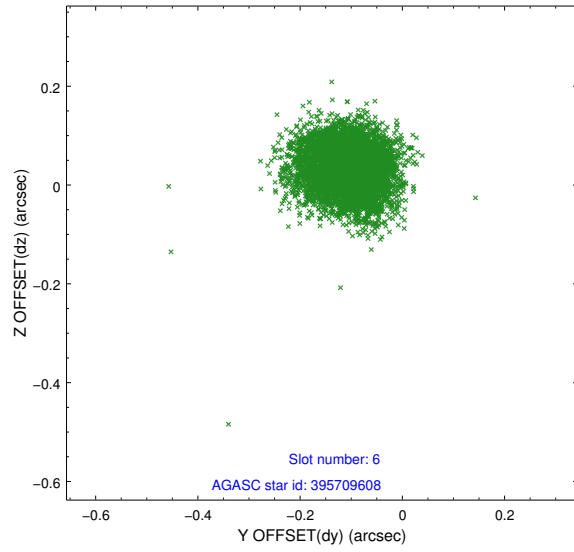
## 2.4.2 Slot 4



### 2.4.3 Slot 5

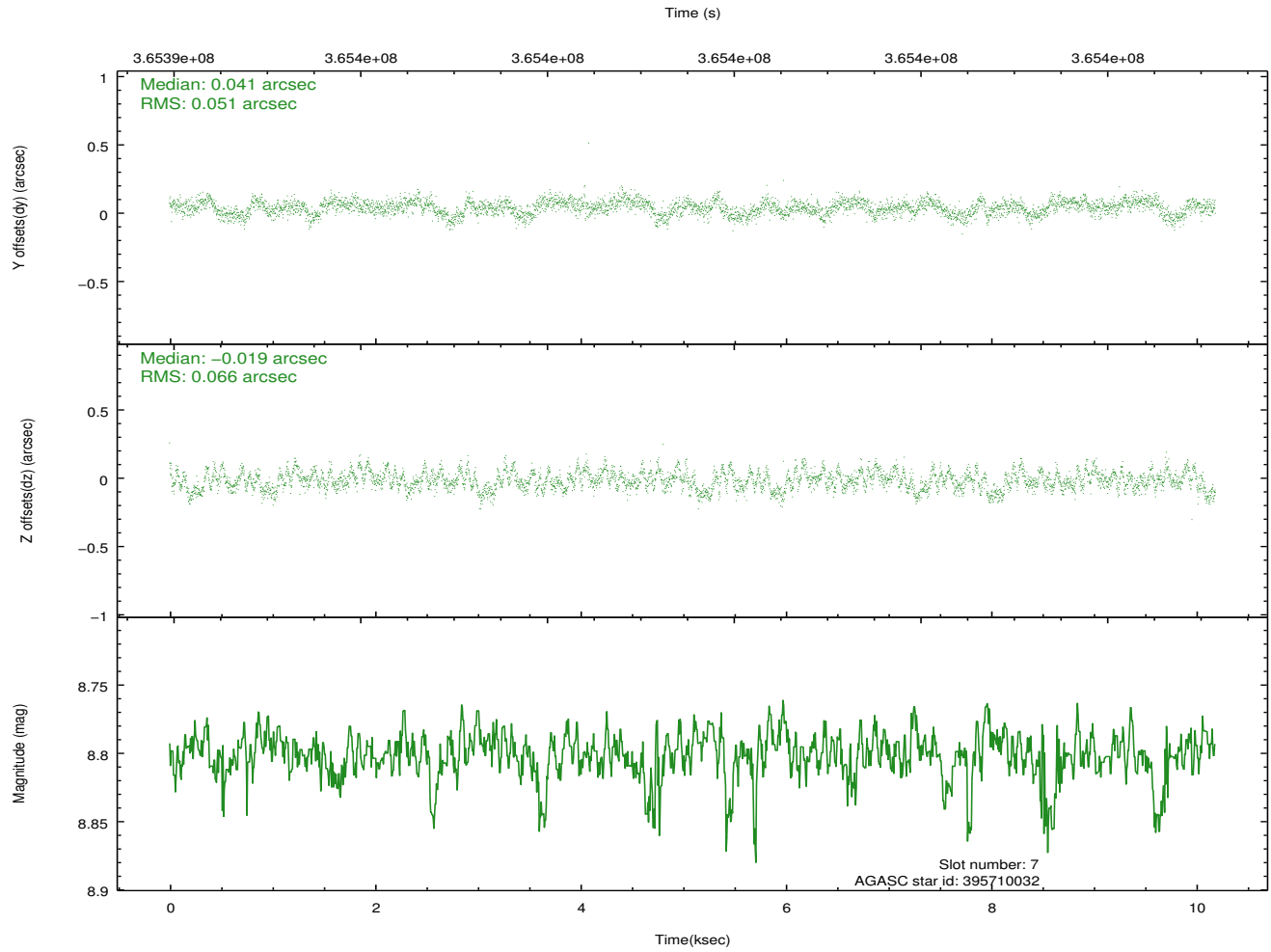
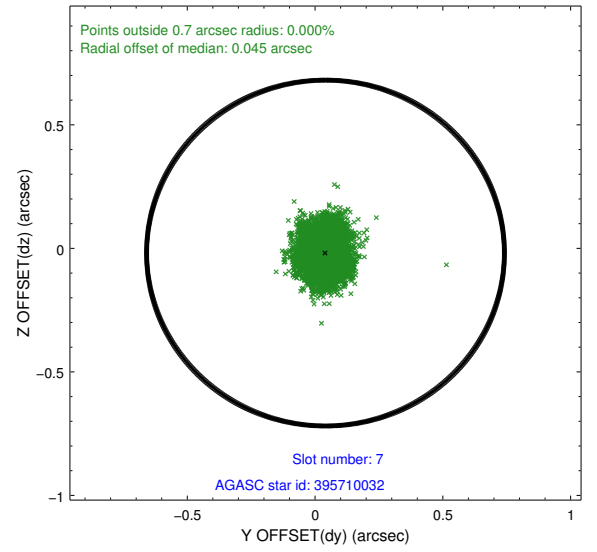
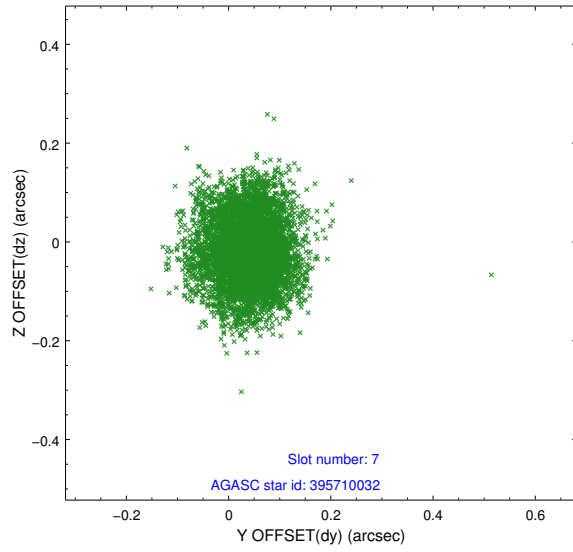


## 2.4.4 Slot 6



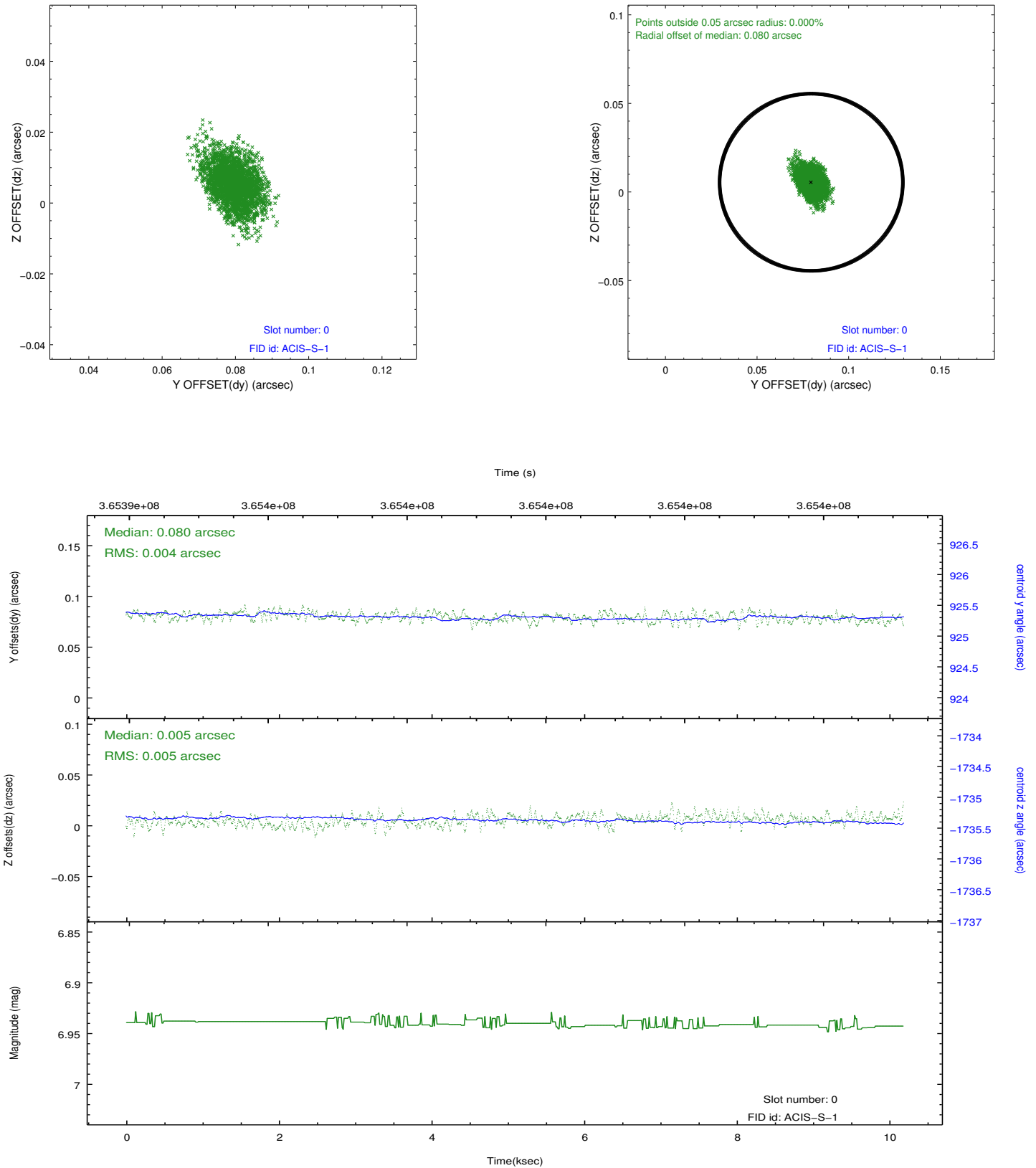


## 2.4.5 Slot 7

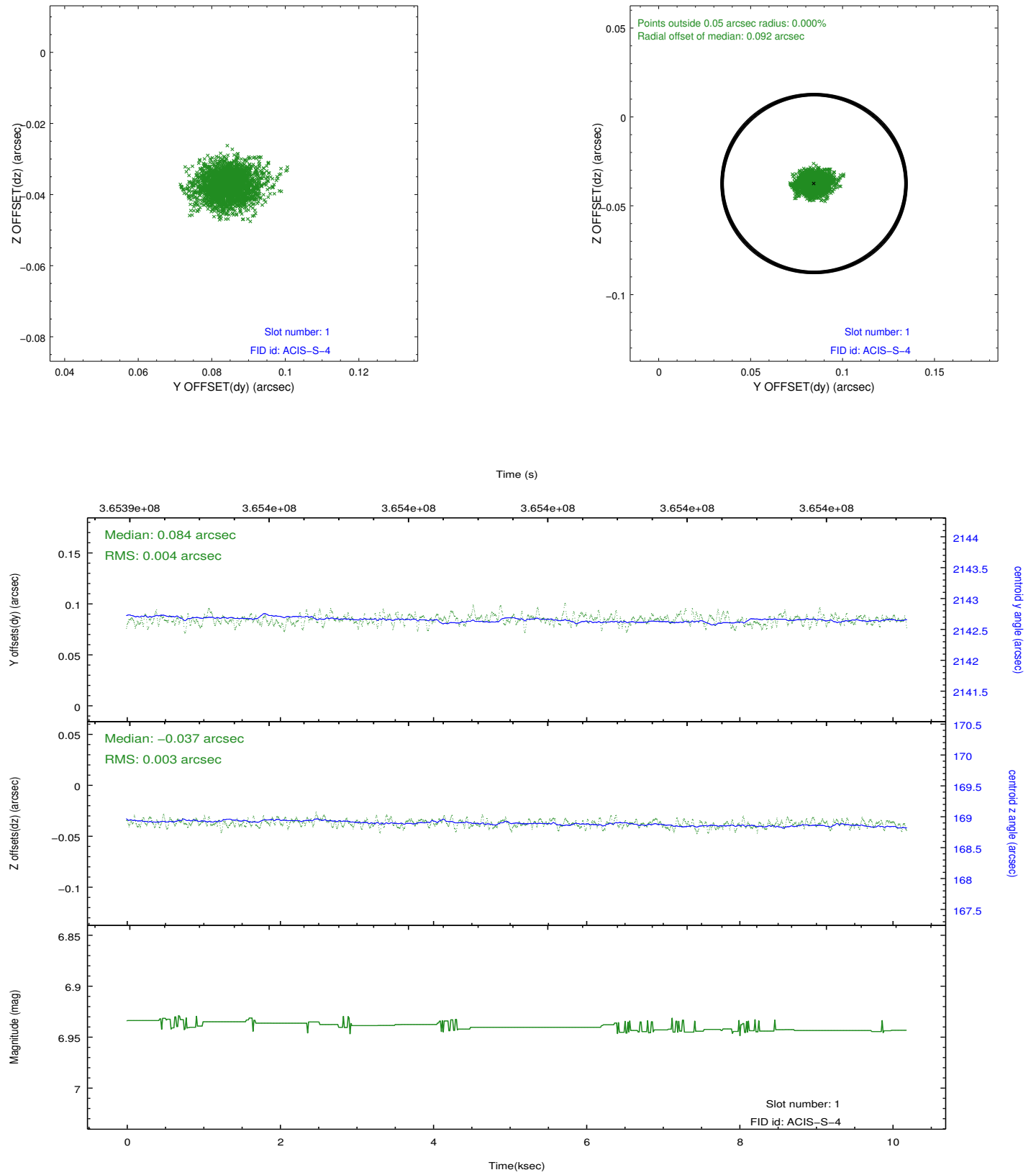


## 2.5 FID Slots

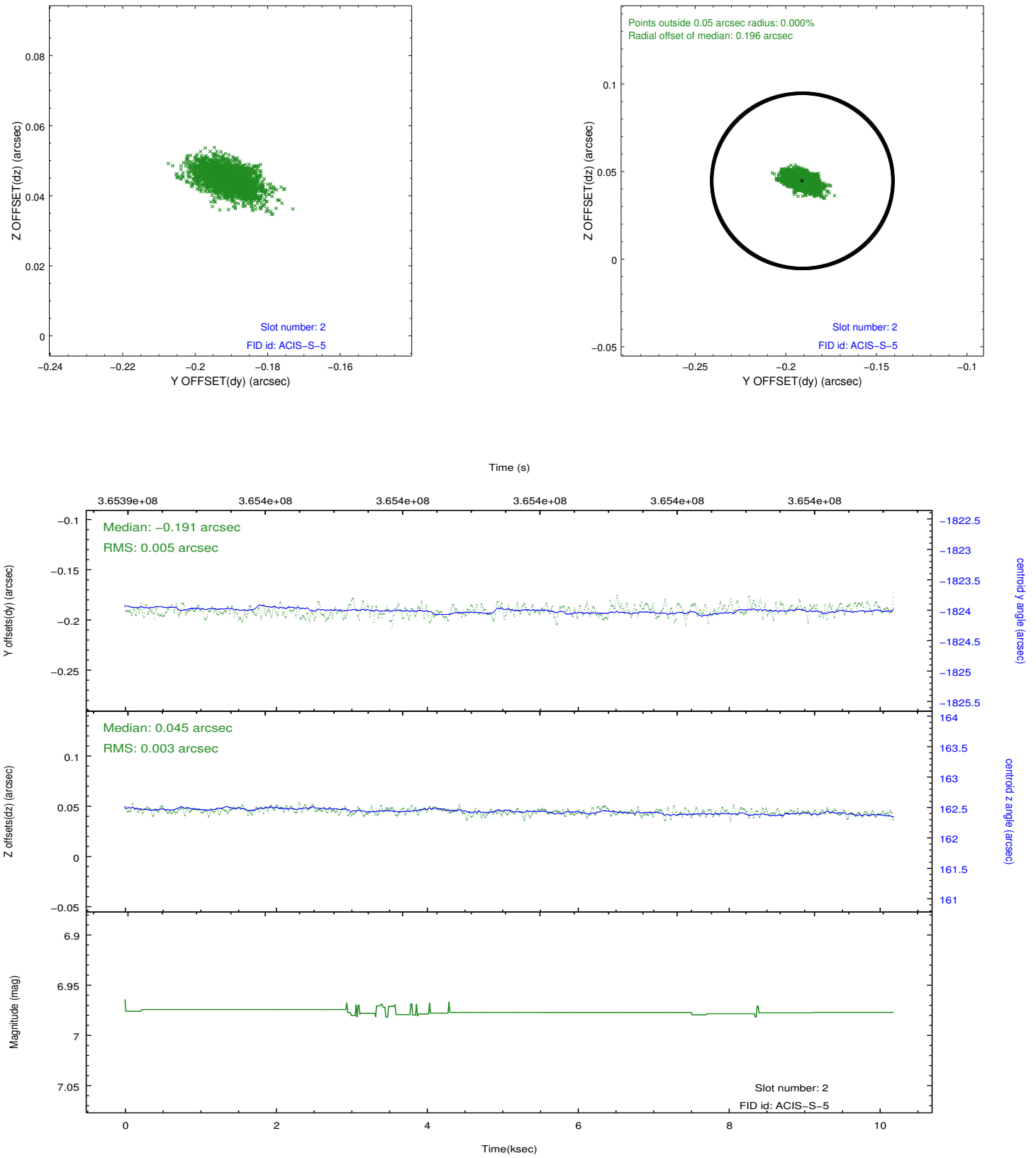
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.182

### A.2 Comments