

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 5650 - L2 Version 2  
Chandra X-Ray Center

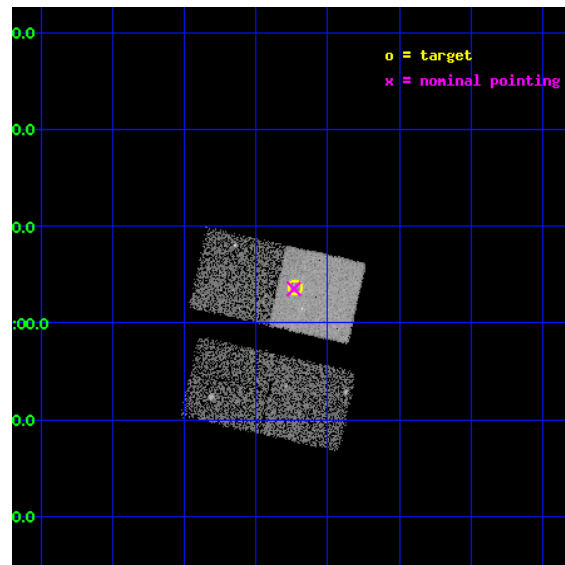
L2 Processing Date : Mar 16 2012

## 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

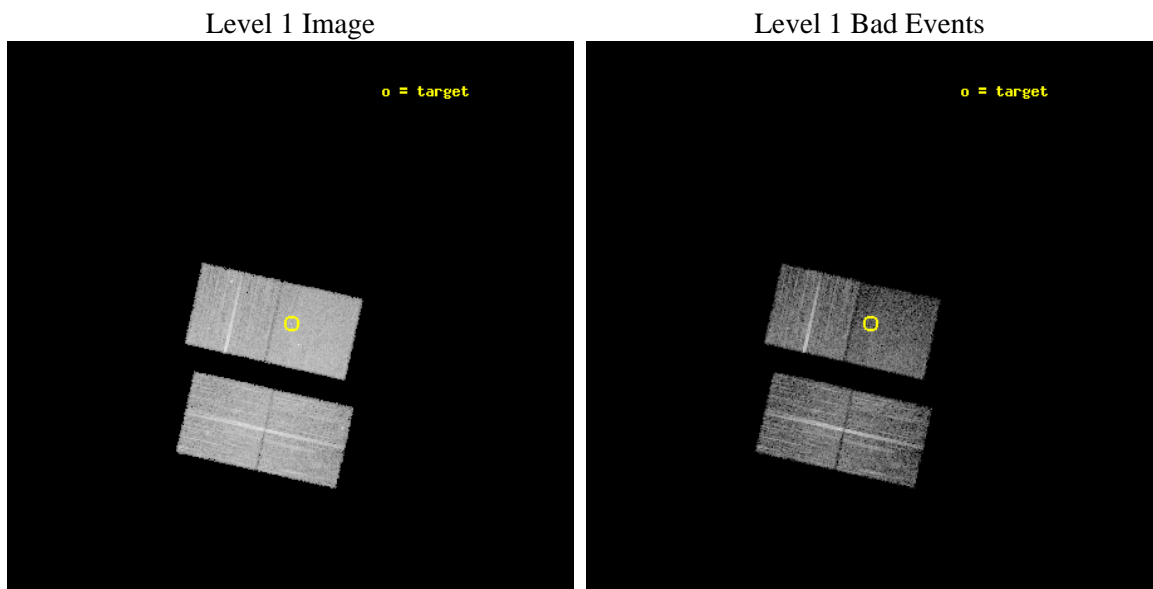
seq_num	701073	Sequence number
obs_id	5650	Observation id
title	The Spectral Energy Distribution and Fe II Emission in Intermediate-Redshift Narrow-line Seyfert 1 Galaxies	Proposal title
observer	Dr. Karen Leighly	Principal investigator
object	SDSS J034313.76+010336.9	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	55.8075	Observer's specified target RA [deg]
dec_targ	1.06025	Observer's specified target Dec [deg]
ra_nom	55.809099207283	Nominal RA [deg]
dec_nom	1.0588655015178	Nominal Dec [deg]
roll_nom	12.633874367789	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8035.1999845207	Sum of GTIs [s]
livetime	7930.2141812947	Livetime [s]
ontime2	8032.0590142608	Sum of GTIs [s]
ontime3	8035.1999845207	Sum of GTIs [s]
ontime6	8032.0589843392	Sum of GTIs [s]
ontime7	8035.1999845207	Sum of GTIs [s]
l2events	40575	Number of level 2 events



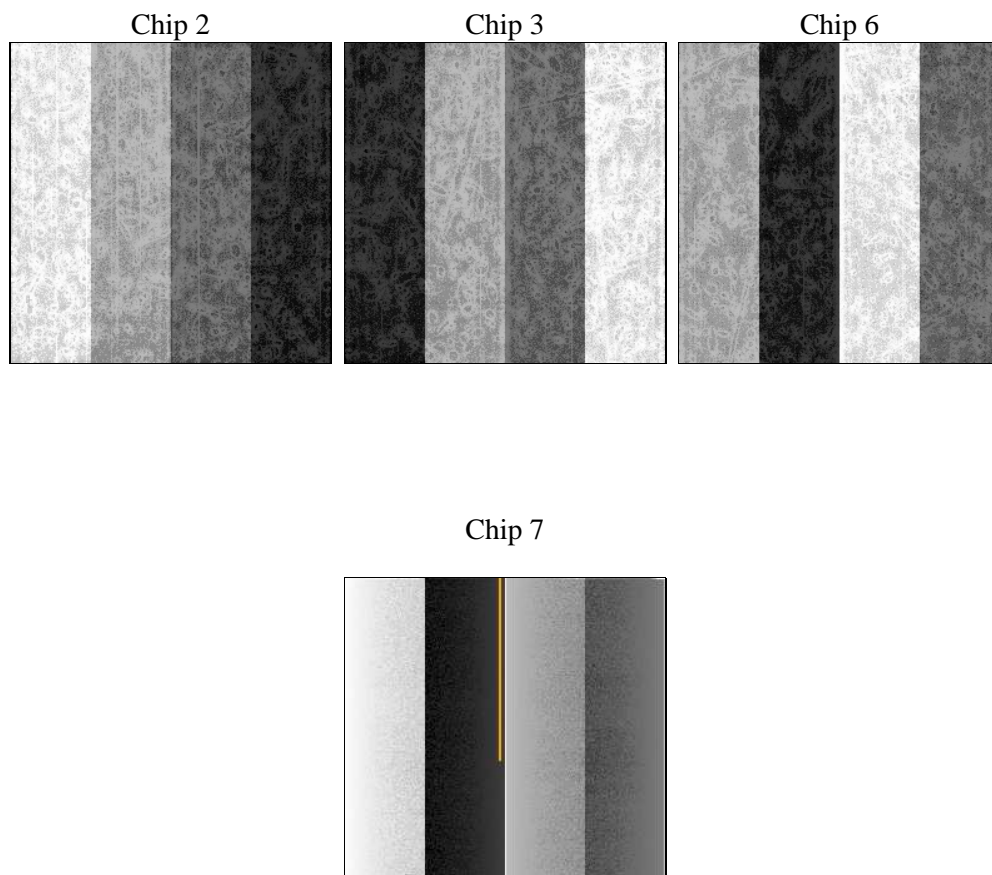
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7900.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	8035.1999845207	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	8032.0590142608	Sum of GTIs [s]
date	2012-03-17T00:53:38	Date and time of file creation	ontime3	8035.1999845207	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8032.0589843392	Sum of GTIs [s]
			ontime7	8035.1999845207	Sum of GTIs [s]
			l1events	251735	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	64673	58416	61619	67027
rejected events	59459	53239	55761	39622
rejected %	91%	91%	90%	59%

	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2186	2133	2337	2696
	3%	3%	3%	4%
grade 1 events	22	34	27	75
	0%	0%	0%	0%
grade 2 events	1357	1184	1374	5987
	2%	2%	2%	8%
grade 3 events	643	646	737	2787
	0%	1%	1%	4%
grade 4 events	639	675	681	2843
	0%	1%	1%	4%
grade 5 events	1802	2433	2551	7053
	2%	4%	4%	10%
grade 6 events	1002	1092	1389	16032
	1%	1%	2%	23%
grade 7 events	57022	50219	52523	29554
	88%	85%	85%	44%

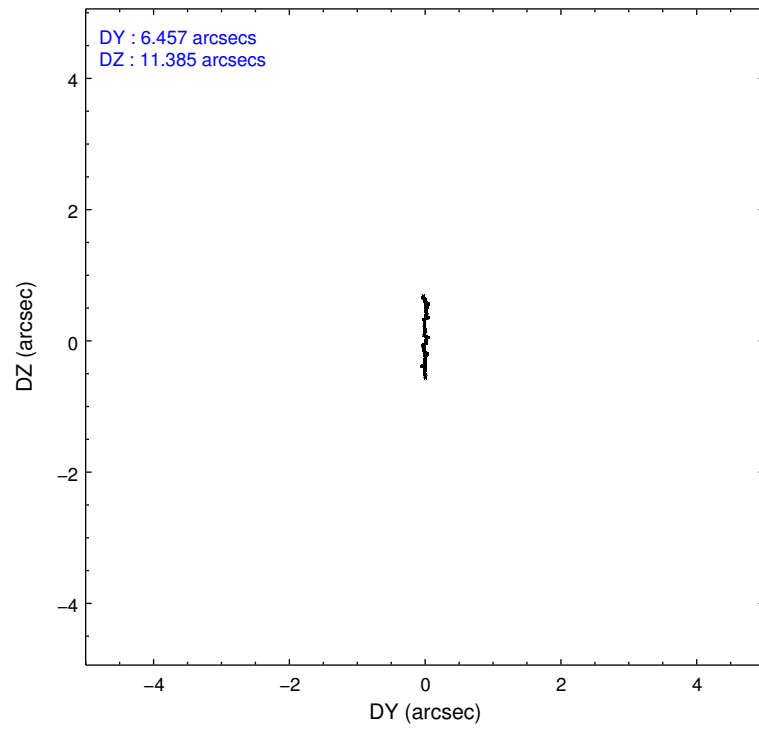
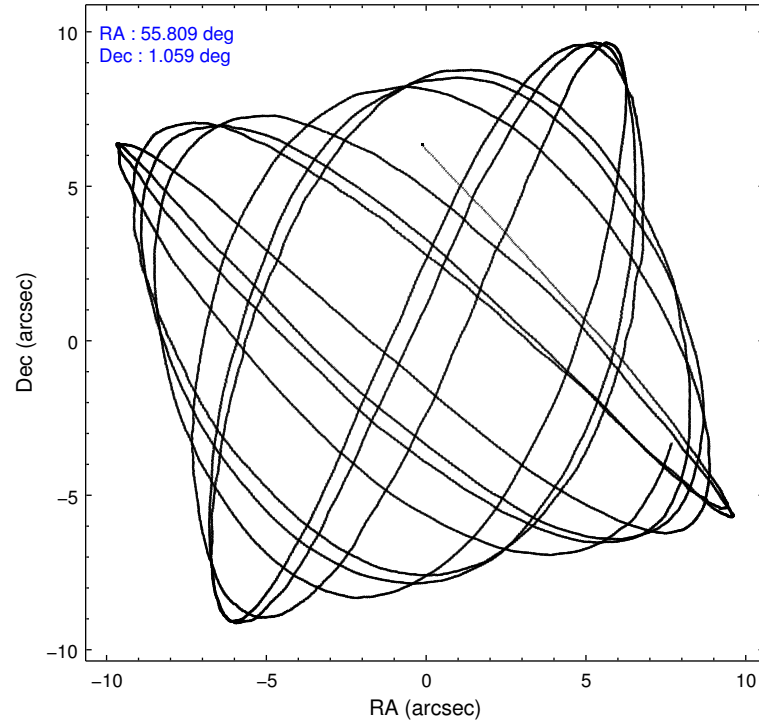


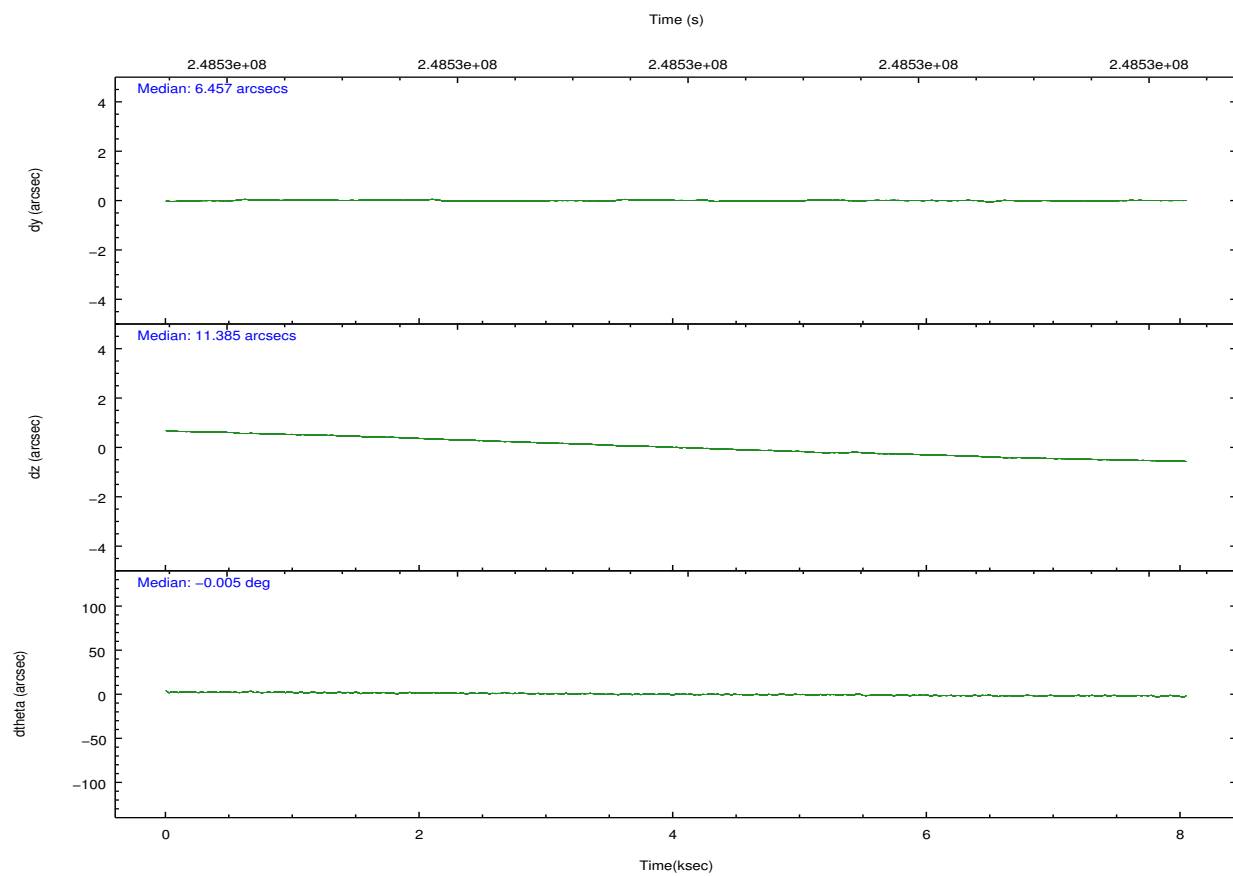
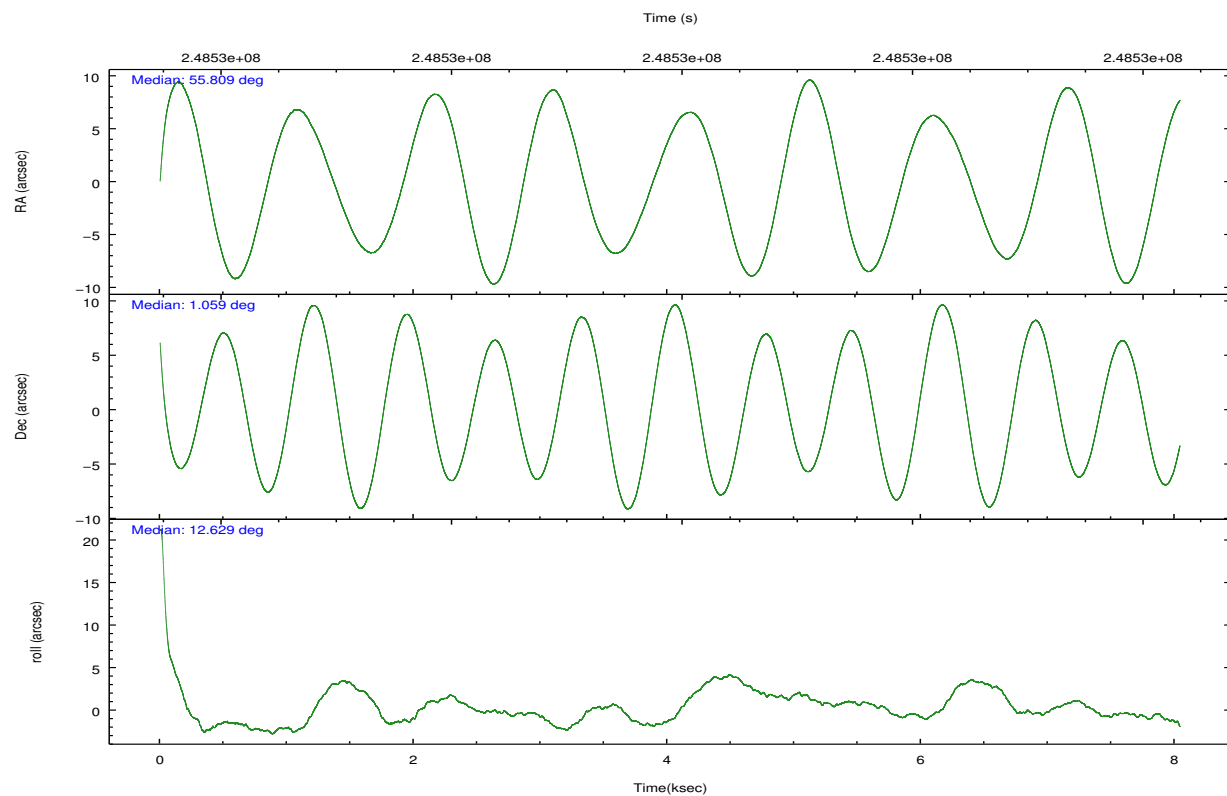
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-2367	ACIS-2367
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	55.789290	55.80909920728315
[deg] Pointing Dec	1.040177	1.058865501517792
[deg] Pointing Roll	12.477571	12.63387436778881
[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)	248526018.184000	248524672.95893
Observation start date	2005-11-16T10:59:14	2005-11-16T10:37:52
[s] Observation end time (MET)	248533918.184000	248534922.9594
Observation end date	2005-11-16T13:10:54	2005-11-16T13:28:42
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	3.1

## 2.3 Aspect



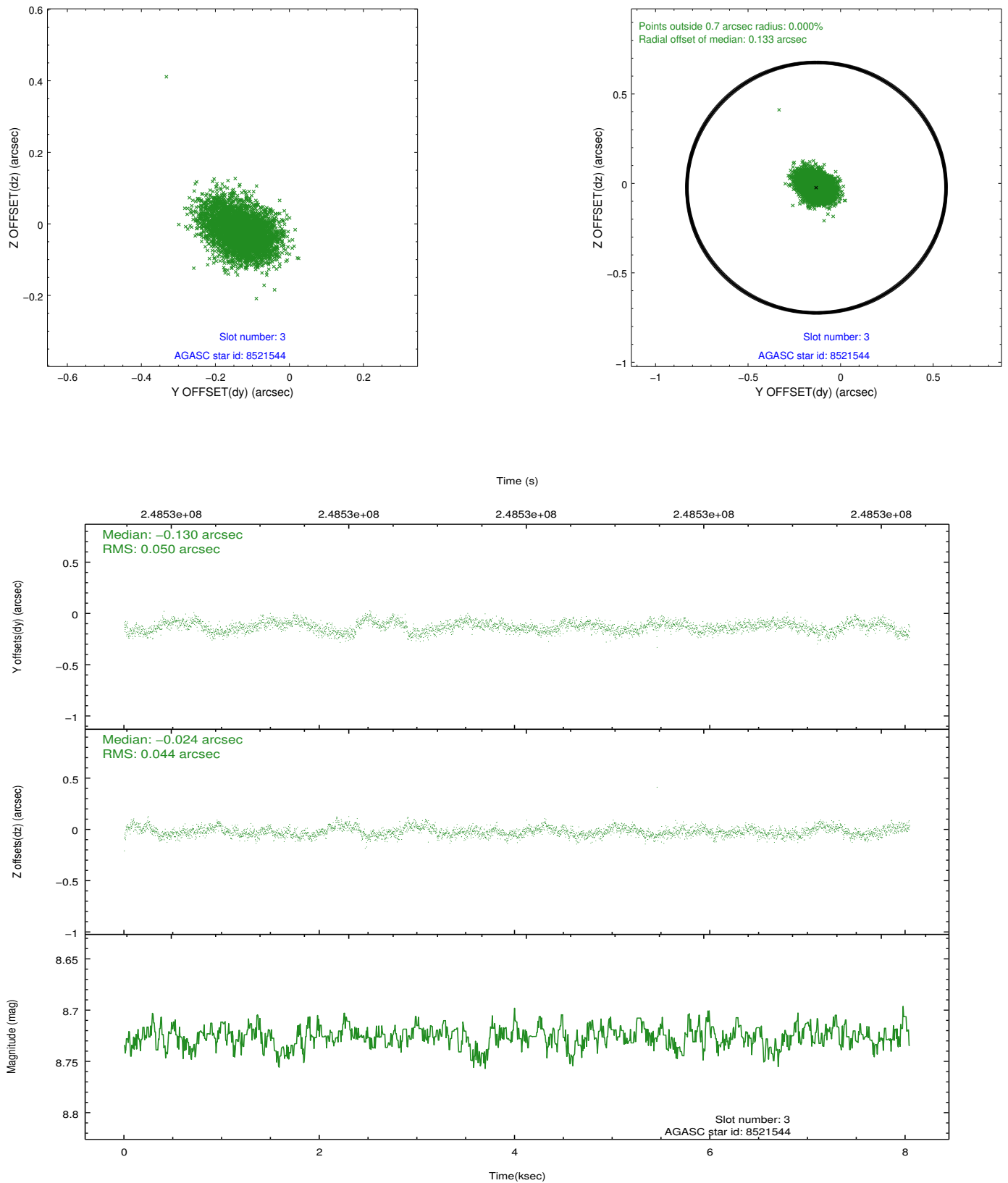


### Slot Statistics

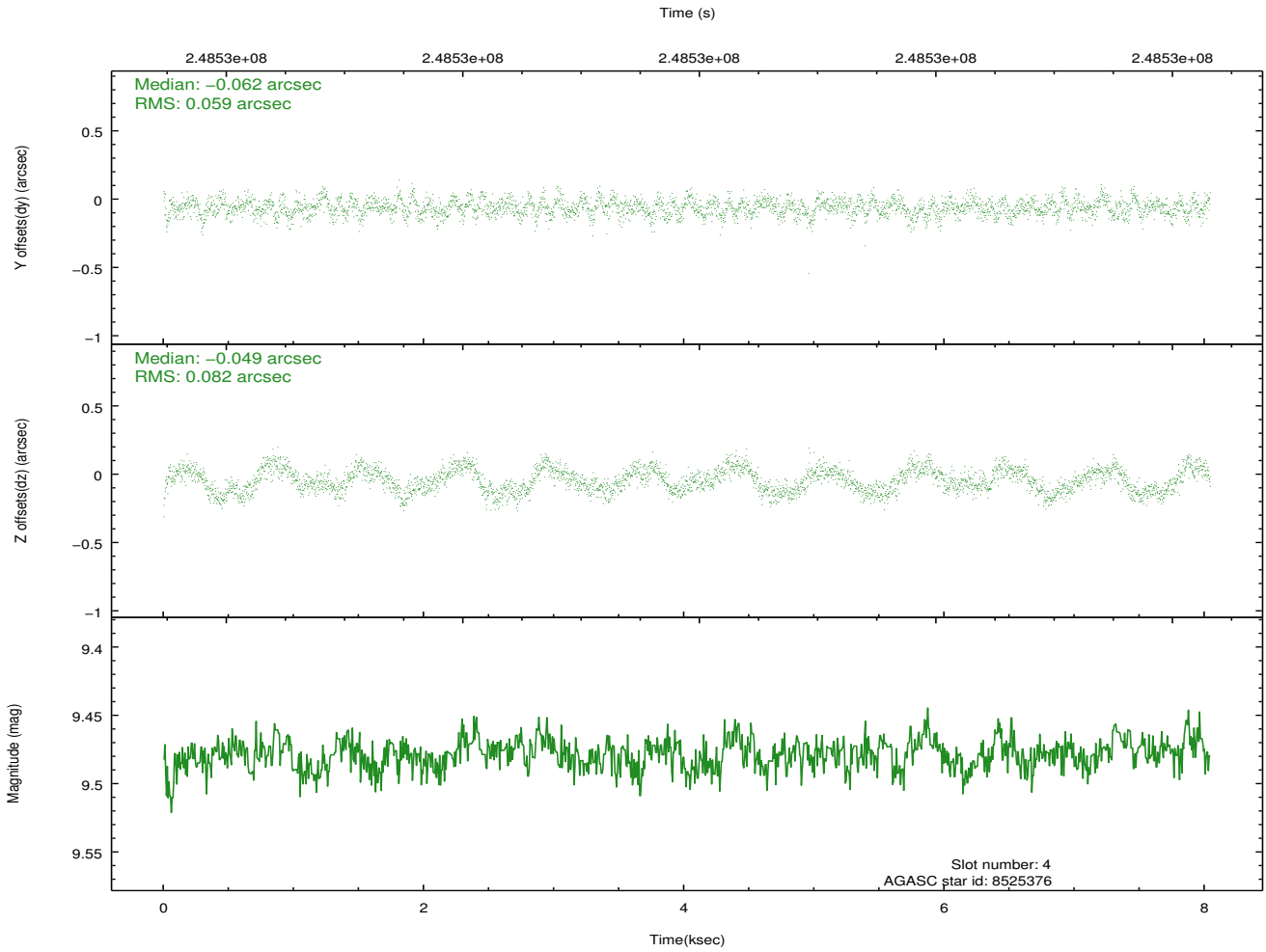
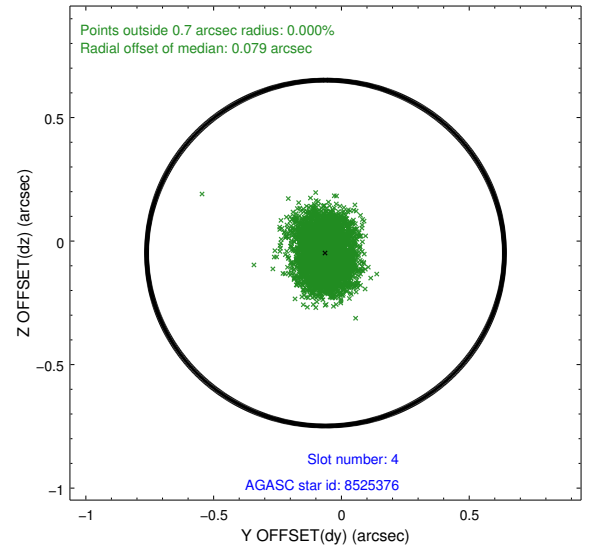
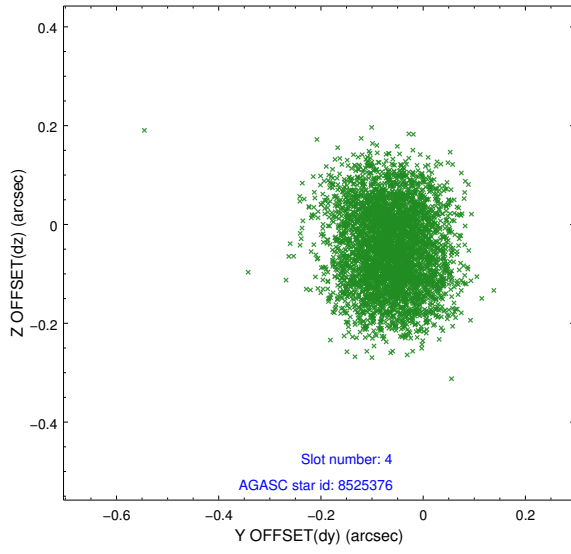
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1962	-0.049	-0.018	0.012	0.019	0.000000	0.000000	-759.23	-1732.66
1	FID	ACIS-S-4	7.21	1962	0.078	0.028	0.008	0.013	0.000000	0.000000	2153.84	175.17
2	FID	ACIS-S-5	7.23	1962	-0.061	-0.002	0.010	0.018	0.000000	0.000000	-1811.20	169.57
3	GUIDE	8521544	8.73	3923	-0.130	-0.024	0.072	0.115	56.309282	1.464759	2157.16	1087.91
4	GUIDE	8525376	9.48	3921	-0.062	-0.049	0.109	0.170	56.244277	1.639952	2065.75	1755.23
5	GUIDE	8526616	8.48	3923	0.019	-0.012	0.084	0.145	56.435556	0.617289	1943.80	-1988.35
6	GUIDE	8529496	9.47	3920	-0.031	-0.135	0.129	0.203	55.404076	1.112738	-1296.71	554.14
7	GUIDE	8529624	9.97	3922	0.210	0.216	0.125	0.208	55.327955	0.845354	-1772.76	-325.56

## 2.4 Star Slots

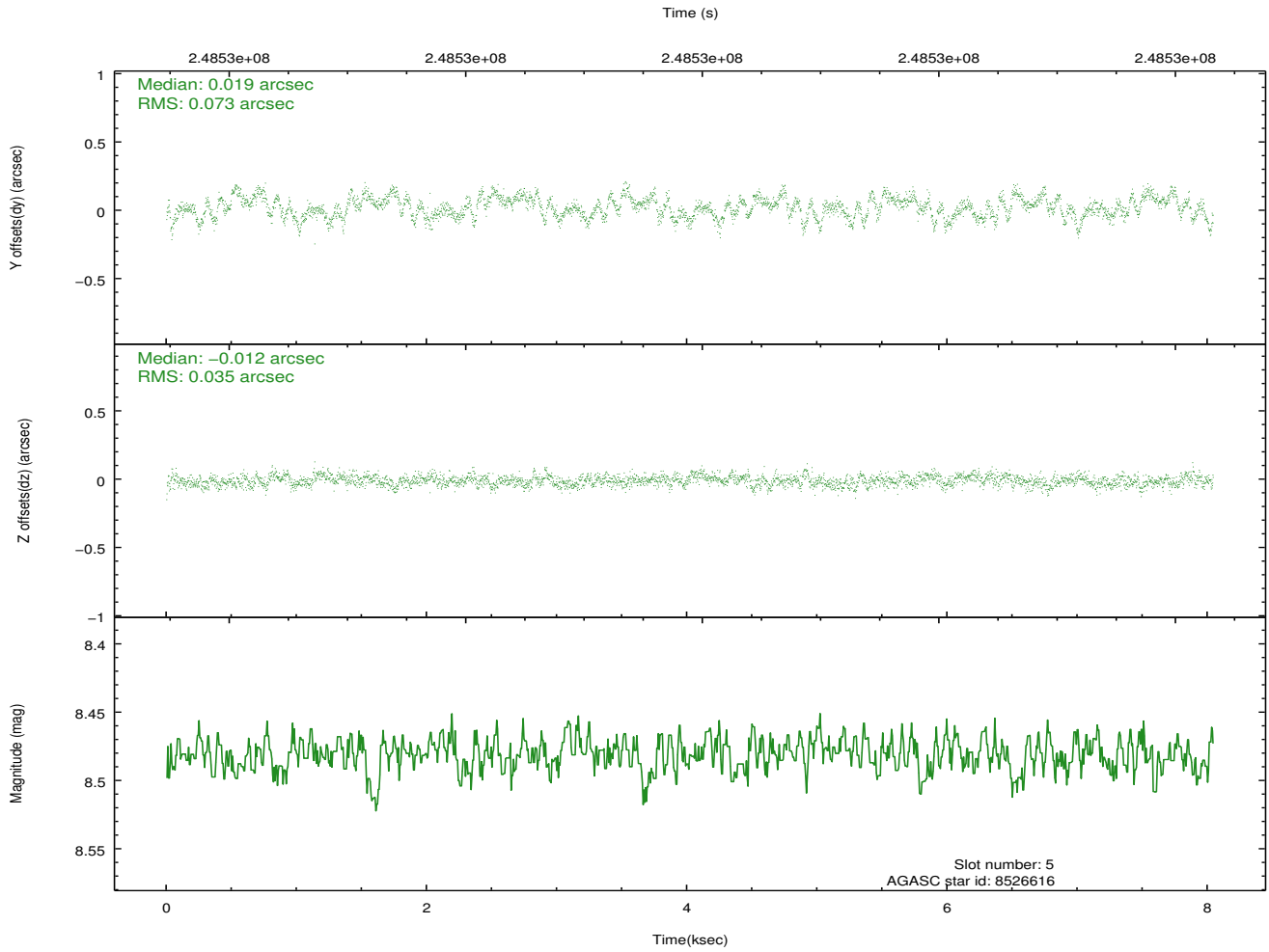
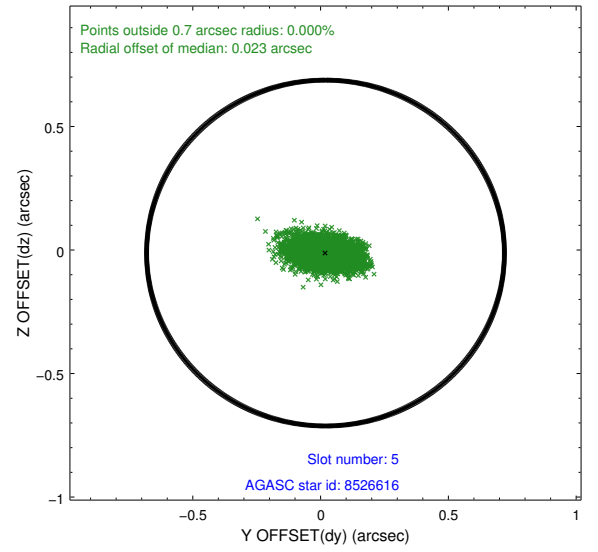
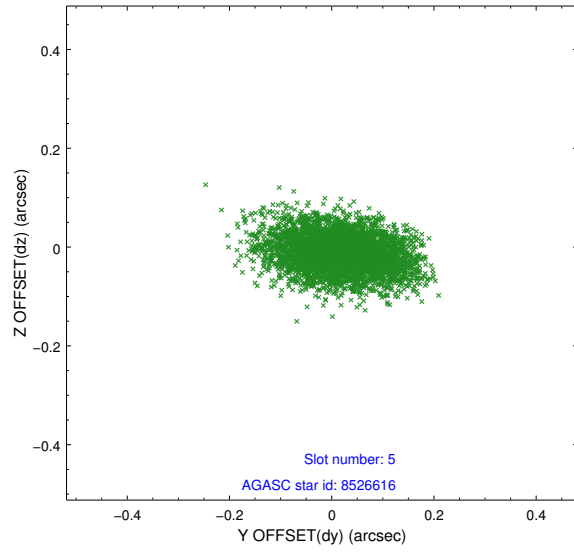
### 2.4.1 Slot 3



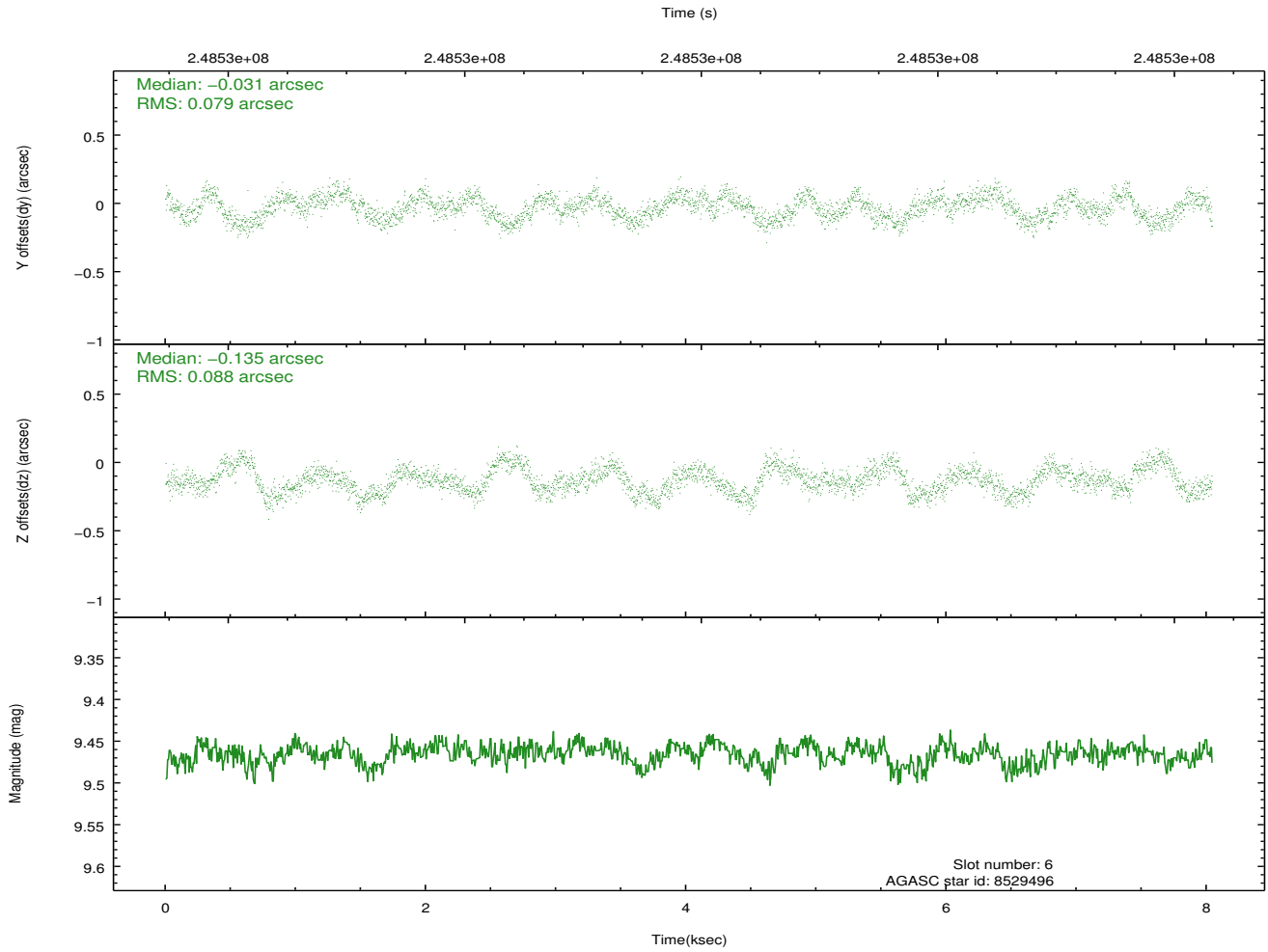
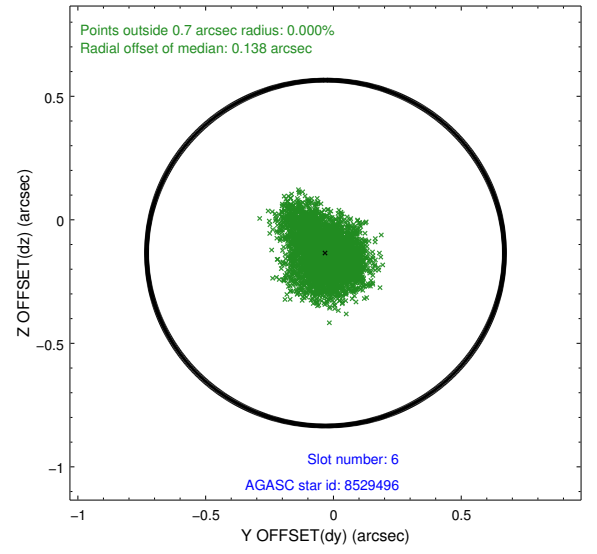
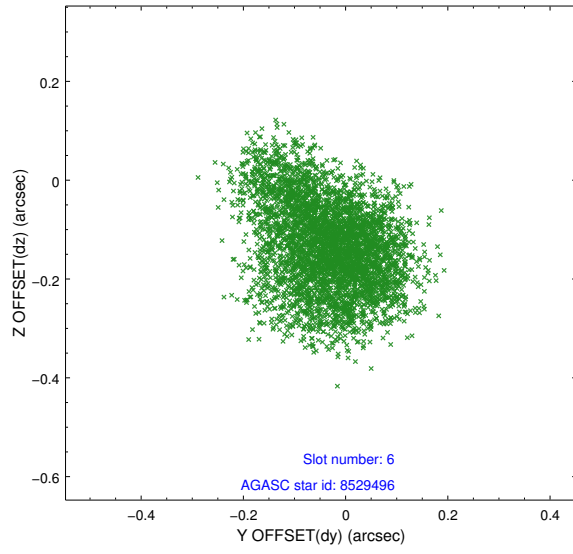
## 2.4.2 Slot 4



### 2.4.3 Slot 5

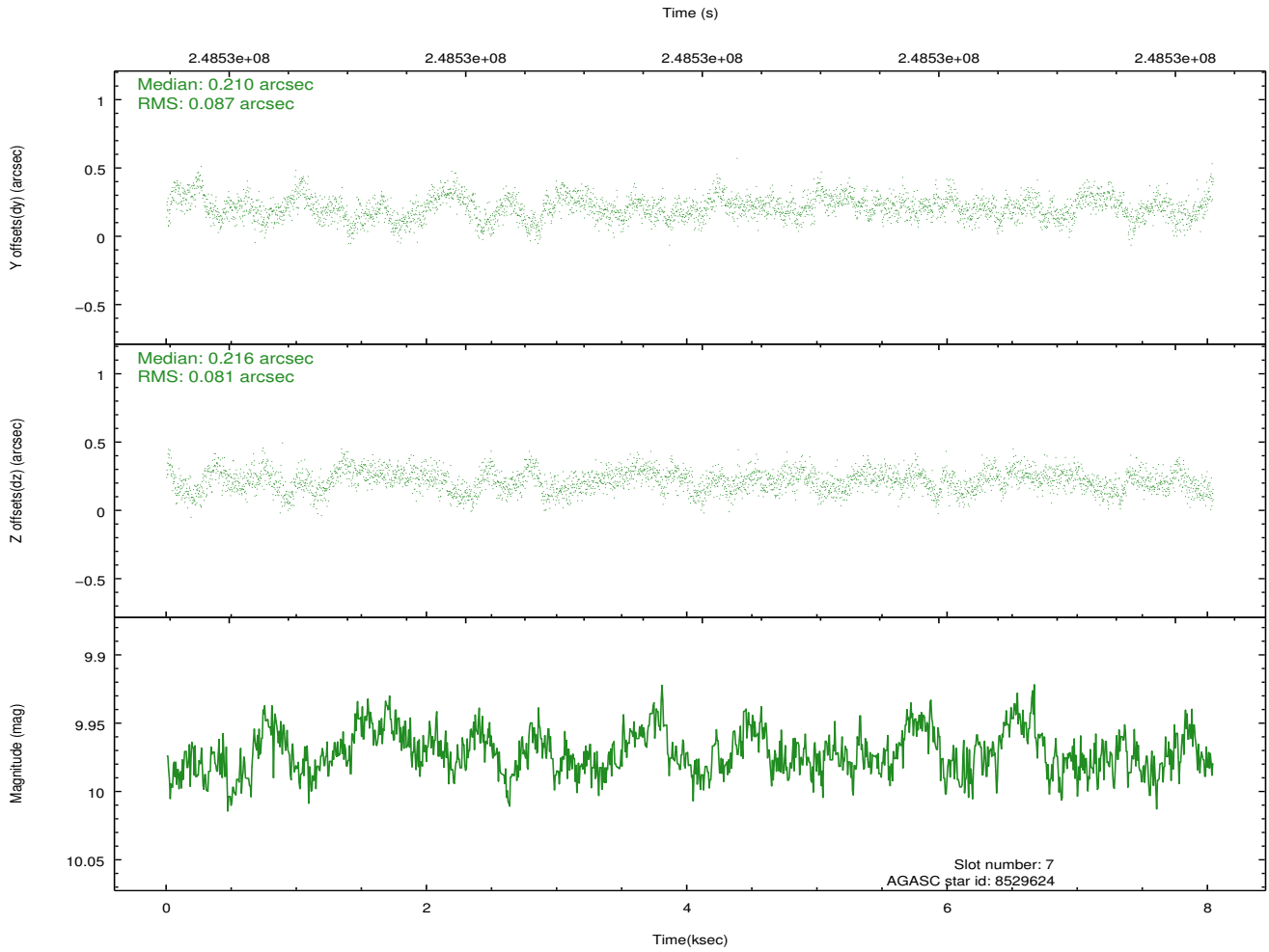
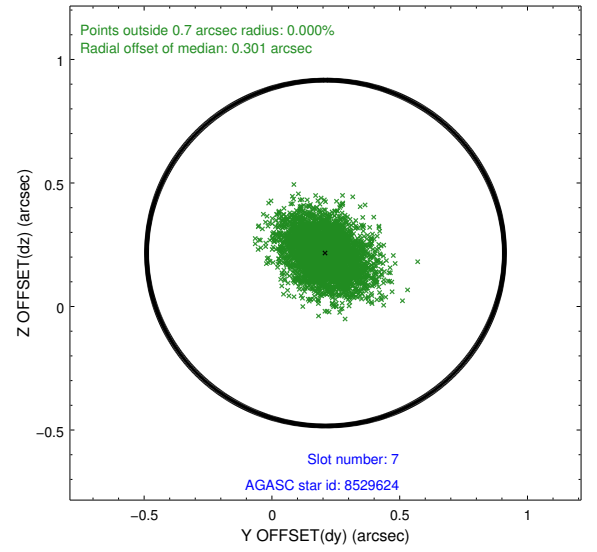
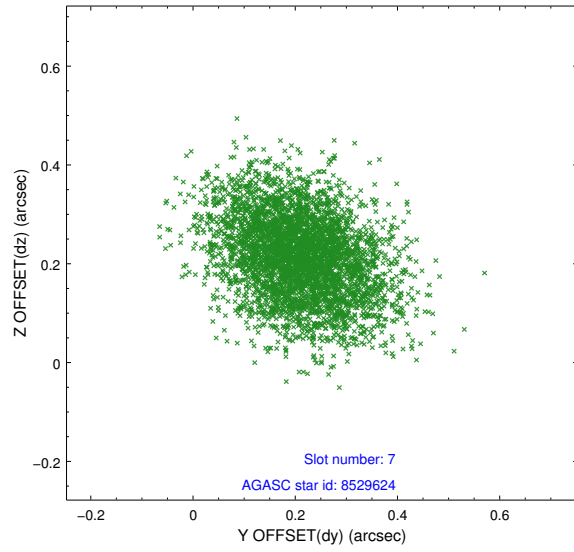


## 2.4.4 Slot 6



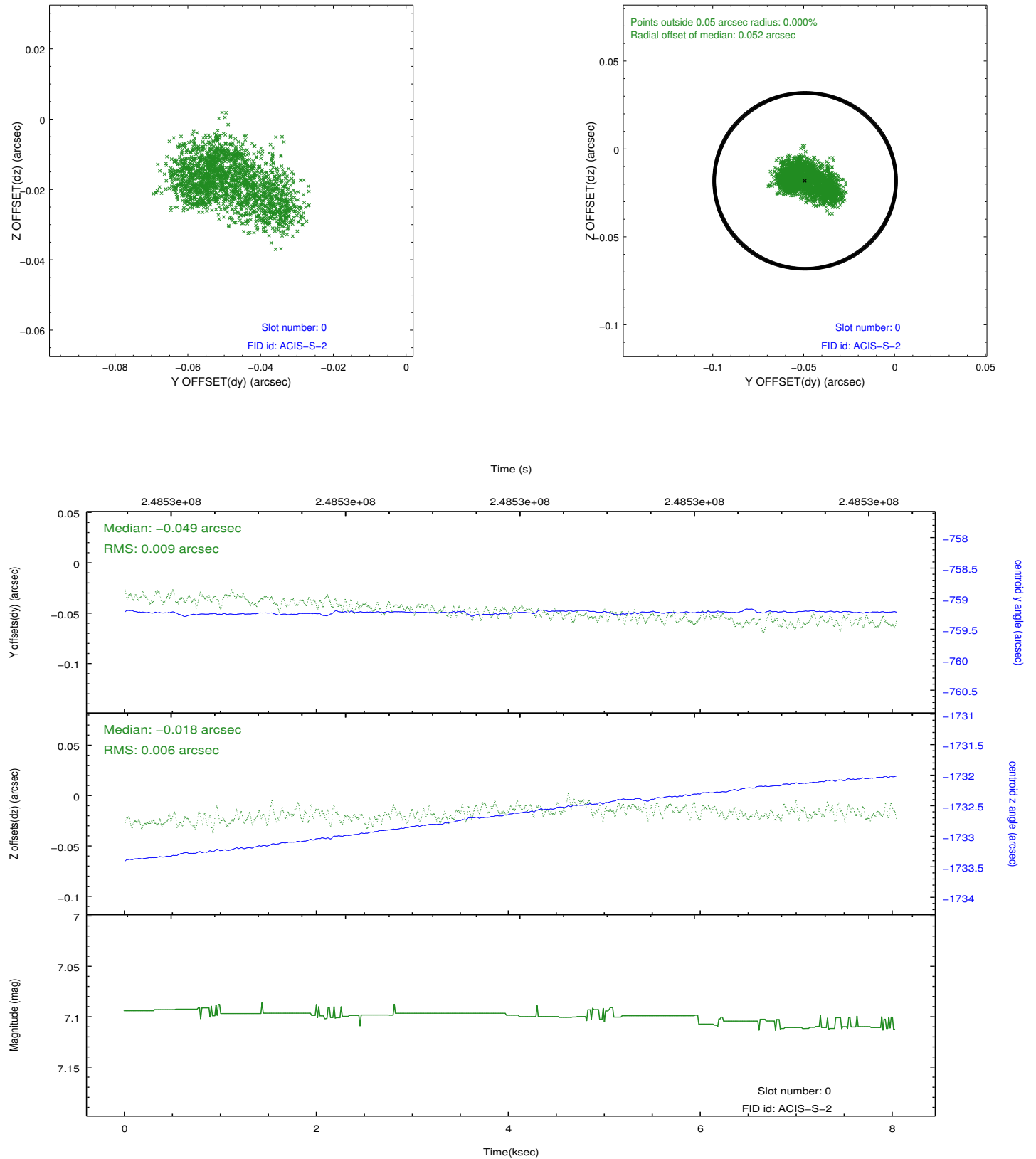


## 2.4.5 Slot 7

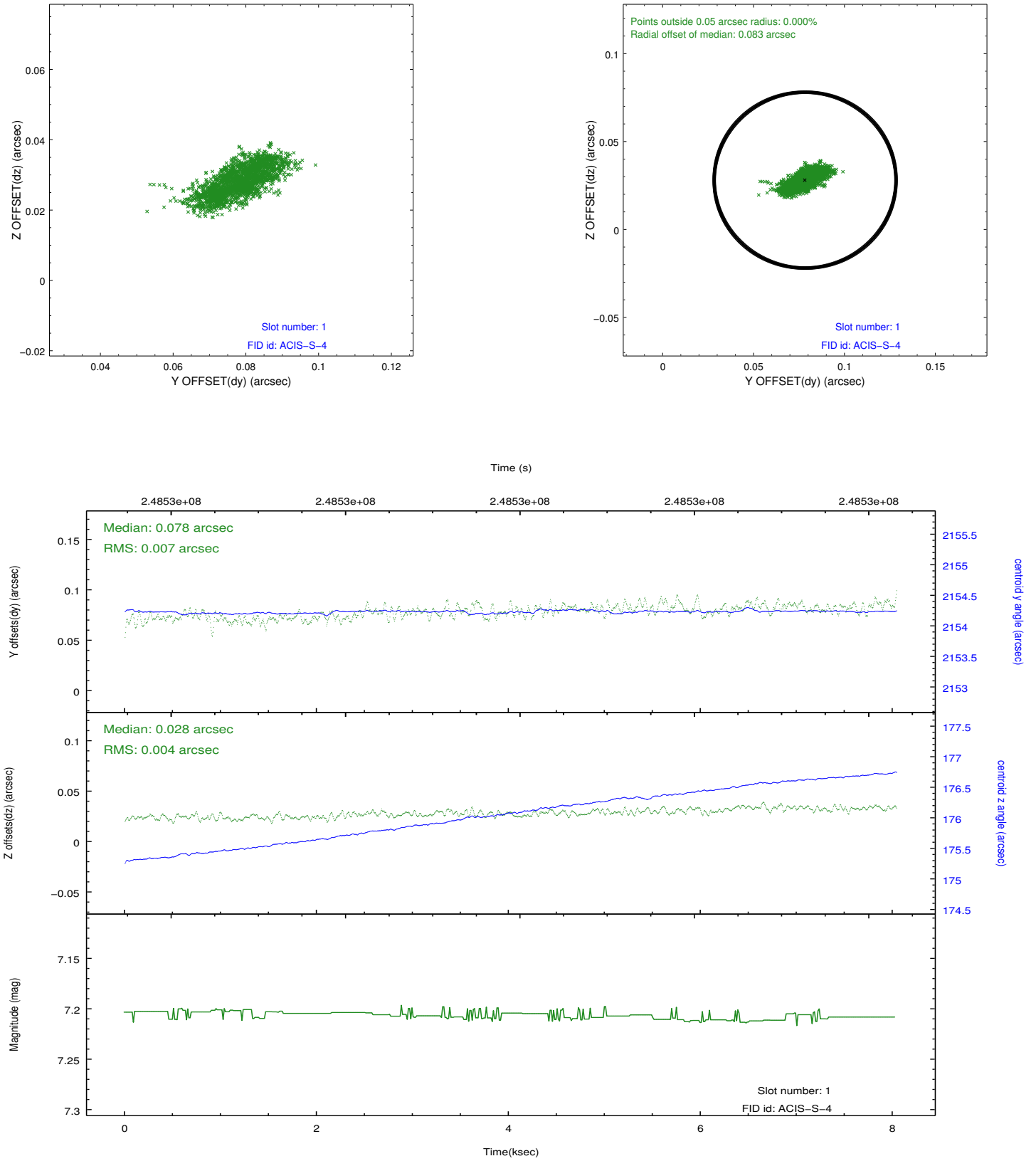


## 2.5 FID Slots

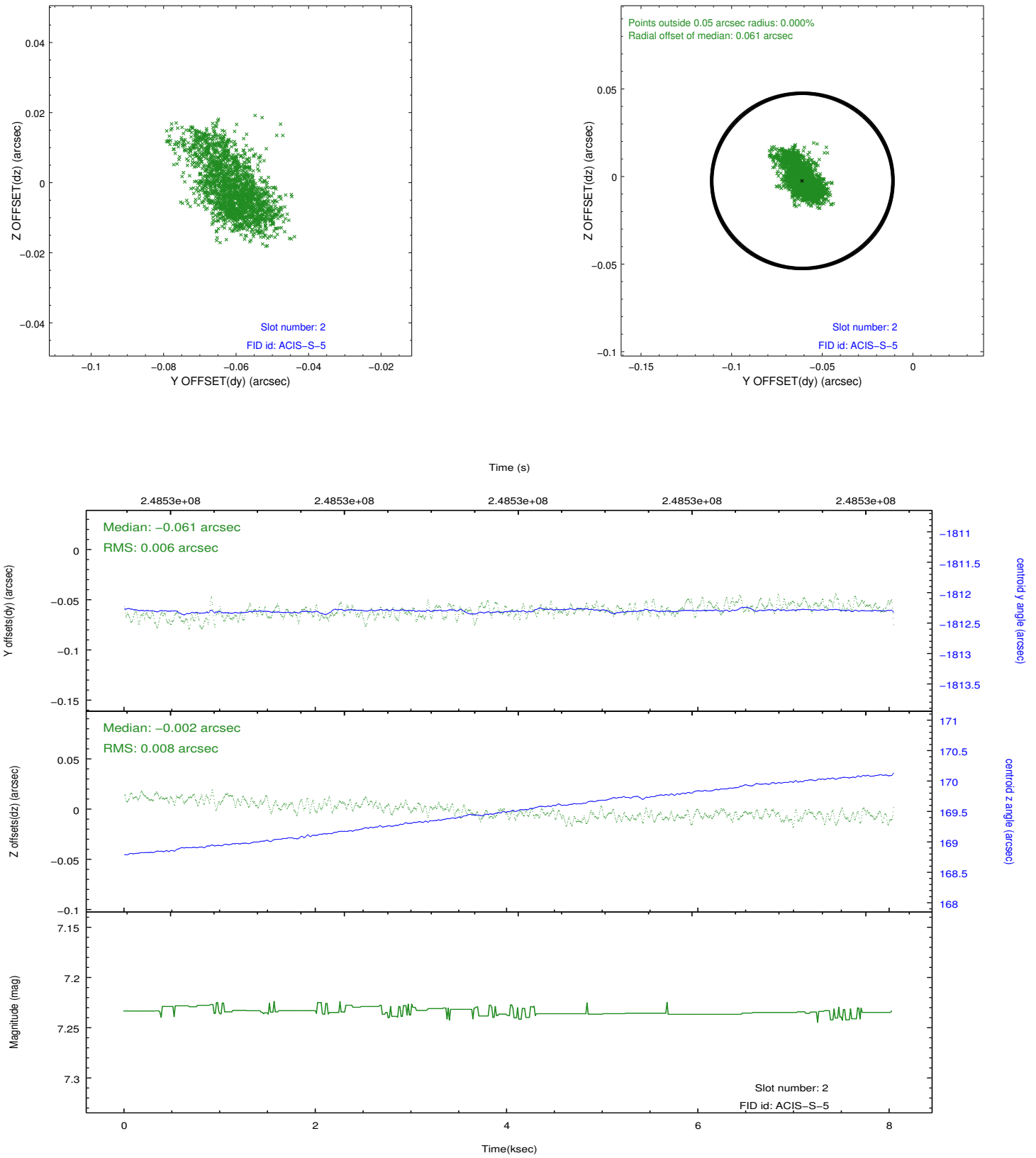
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.03.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.035199

### A.2 Comments