

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 12847 - L2 Version 2  
Chandra X-Ray Center

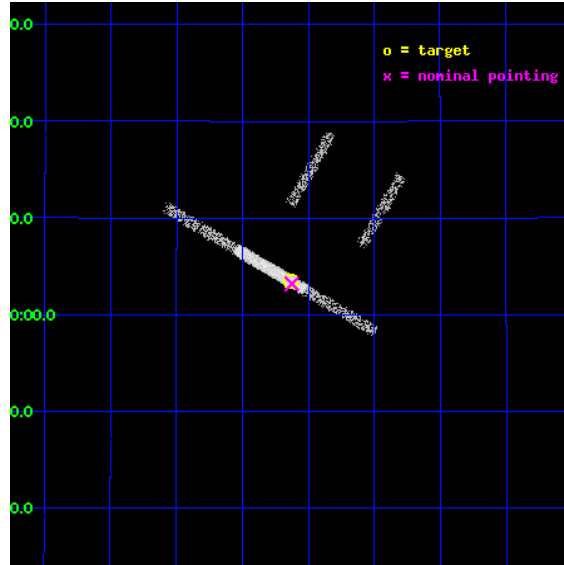
L2 Processing Date : Jul 4 2012

## 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

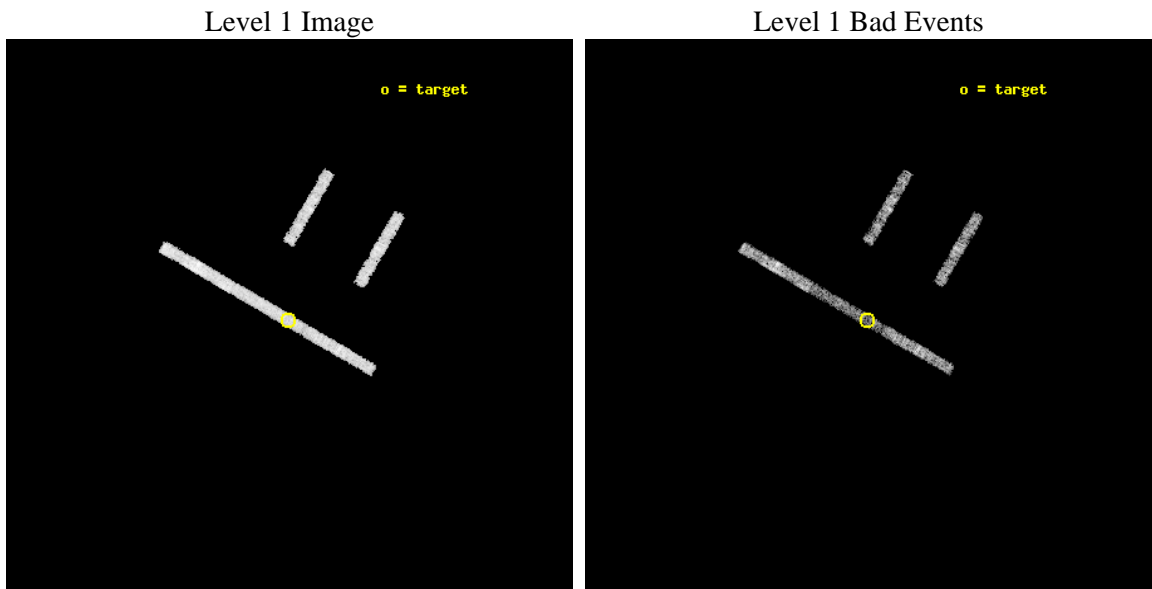
seq_num	702480	Sequence number
obs_id	12847	Observation id
title	X-ray properties of the Youngest Radio Sources	Proposal title
observer	Dr. Aneta Siemiginowska	Principal investigator
object	0035+227	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	9.53375	Observer's specified target RA [deg]
dec_targ	23.057889	Observer's specified target Dec [deg]
ra_nom	9.5312508627752	Nominal RA [deg]
dec_nom	23.05351892773	Nominal Dec [deg]
roll_nom	210.1930287604	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5064.4693866968	Sum of GTIs [s]
livetime	4783.9908381299	Livetime [s]
ontime2	5064.3052266836	Sum of GTIs [s]
ontime3	5064.3873066902	Sum of GTIs [s]
ontime6	5064.4283466935	Sum of GTIs [s]
ontime7	5064.4693866968	Sum of GTIs [s]
ontime8	5064.3462666869	Sum of GTIs [s]
l2events	4903	Number of level 2 events



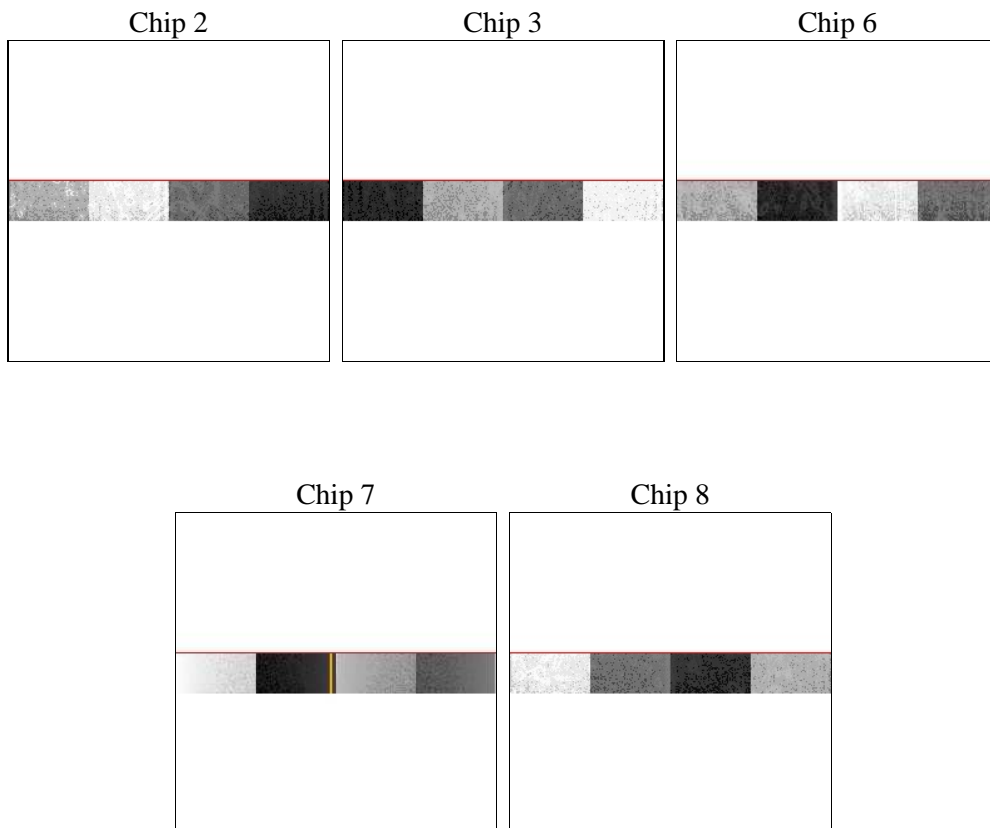
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5064.4693866968	Sum of GTIs [s]
caldbver	4.5.0	&#160	ontime2	5064.3052266836	Sum of GTIs [s]
date	2012-07-04T17:02:32	Date and time of file creation	ontime3	5064.3873066902	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	5064.4283466935	Sum of GTIs [s]
			ontime7	5064.4693866968	Sum of GTIs [s]
			ontime8	5064.3462666869	Sum of GTIs [s]
			l1events	32880	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	5860	5721	6237	6300	8762
rejected events	5262	5151	5557	3356	6908
rejected %	89%	90%	89%	53%	78%

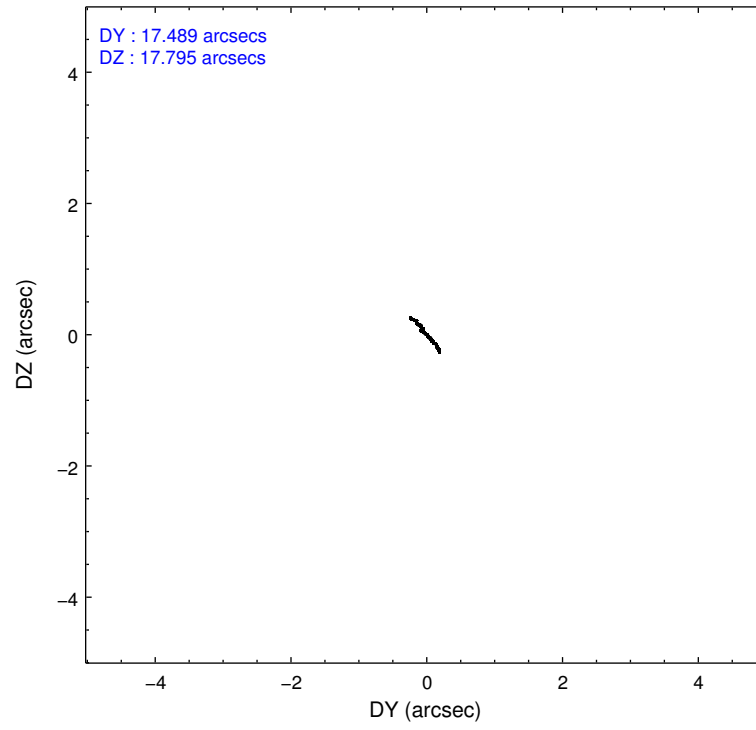
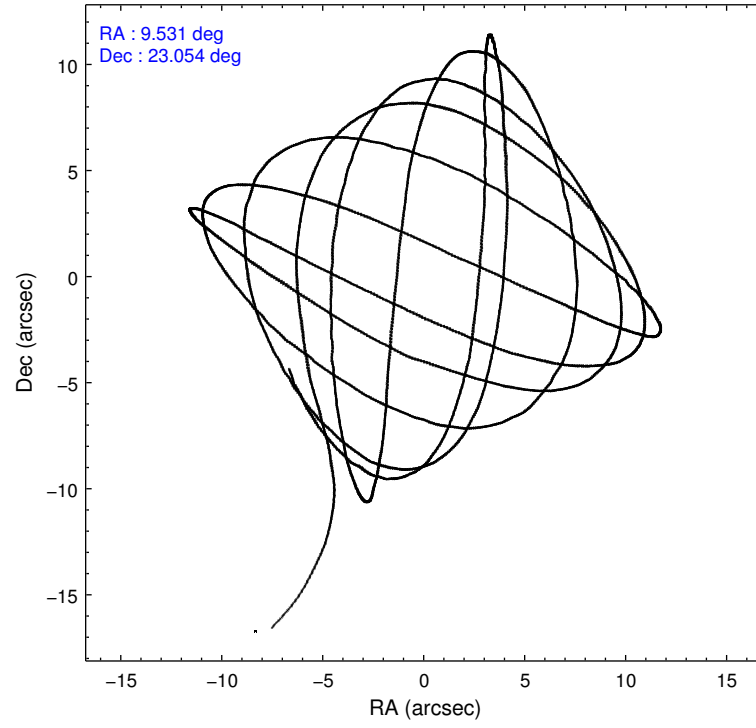
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	172	151	192	290	490
	2%	2%	3%	4%	5%
grade 1 events	4	1	4	5	3
	0%	0%	0%	0%	0%
grade 2 events	115	132	125	612	403
	1%	2%	2%	9%	4%
grade 3 events	106	91	118	336	220
	1%	1%	1%	5%	2%
grade 4 events	107	100	123	323	217
	1%	1%	1%	5%	2%
grade 5 events	155	239	224	682	339
	2%	4%	3%	10%	3%
grade 6 events	98	96	122	1386	524
	1%	1%	1%	22%	5%
grade 7 events	5103	4911	5329	2666	6566
	87%	85%	85%	42%	74%

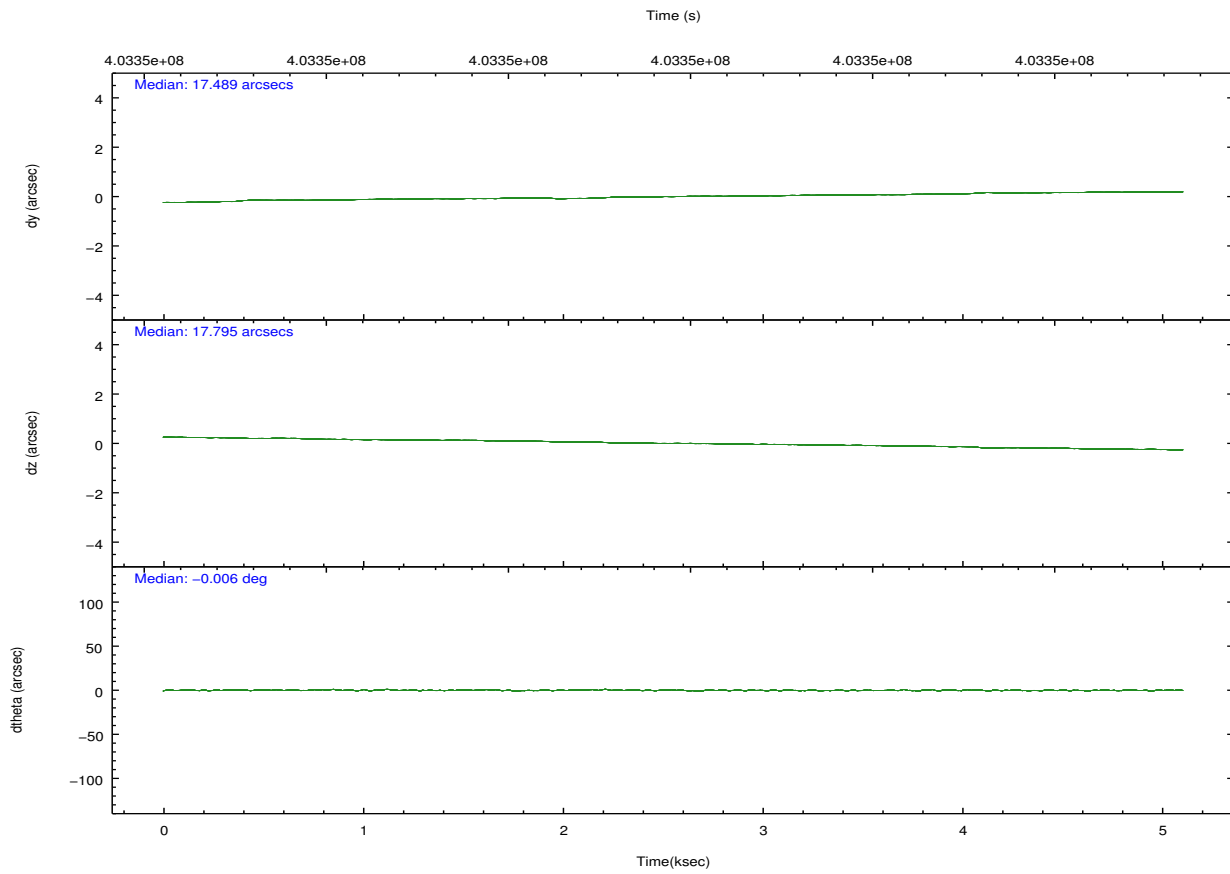
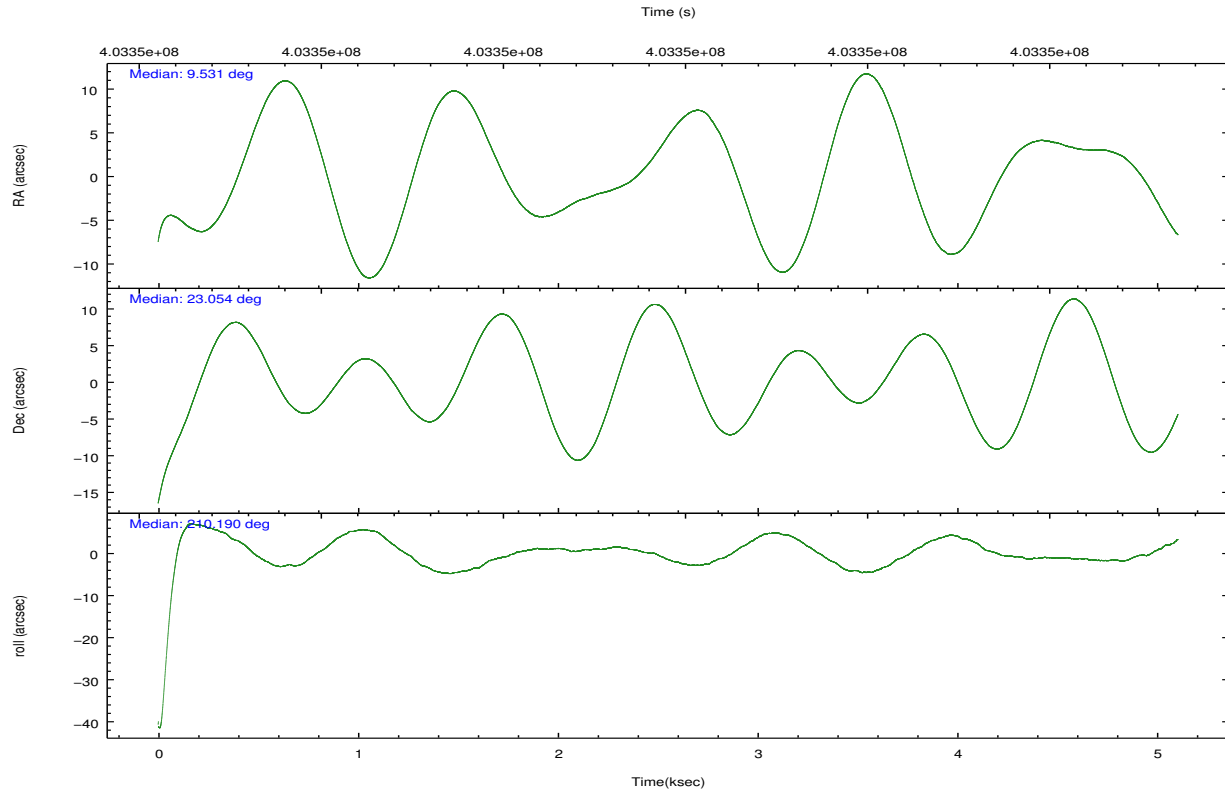


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	9.545688	9.531250862775153	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	23.077524	23.05351892773029	Subarray start row	449	449
[deg] Pointing Roll	210.030868	210.1930287604022	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	0.7
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	403347462.184000	403346301.38049			
Observation start date	2010-10-13T08:56:36	2010-10-13T08:38:21			
[s] Observation end time (MET)	403352462.184000	403352875.73083			
Observation end date	2010-10-13T10:19:56	2010-10-13T10:27:55			
Read mode	TIMED	TIMED			

## 2.3 Aspect



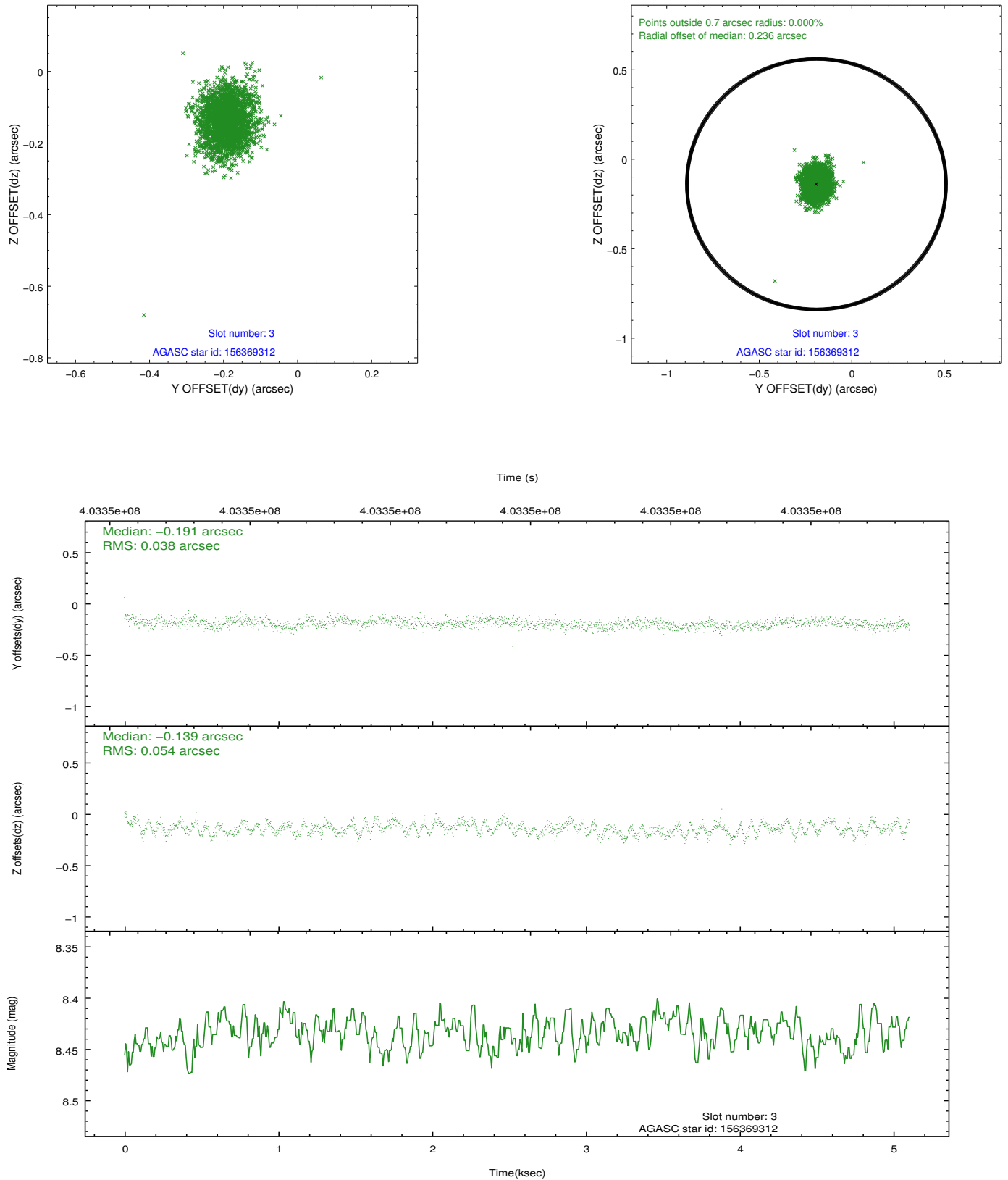


### Slot Statistics

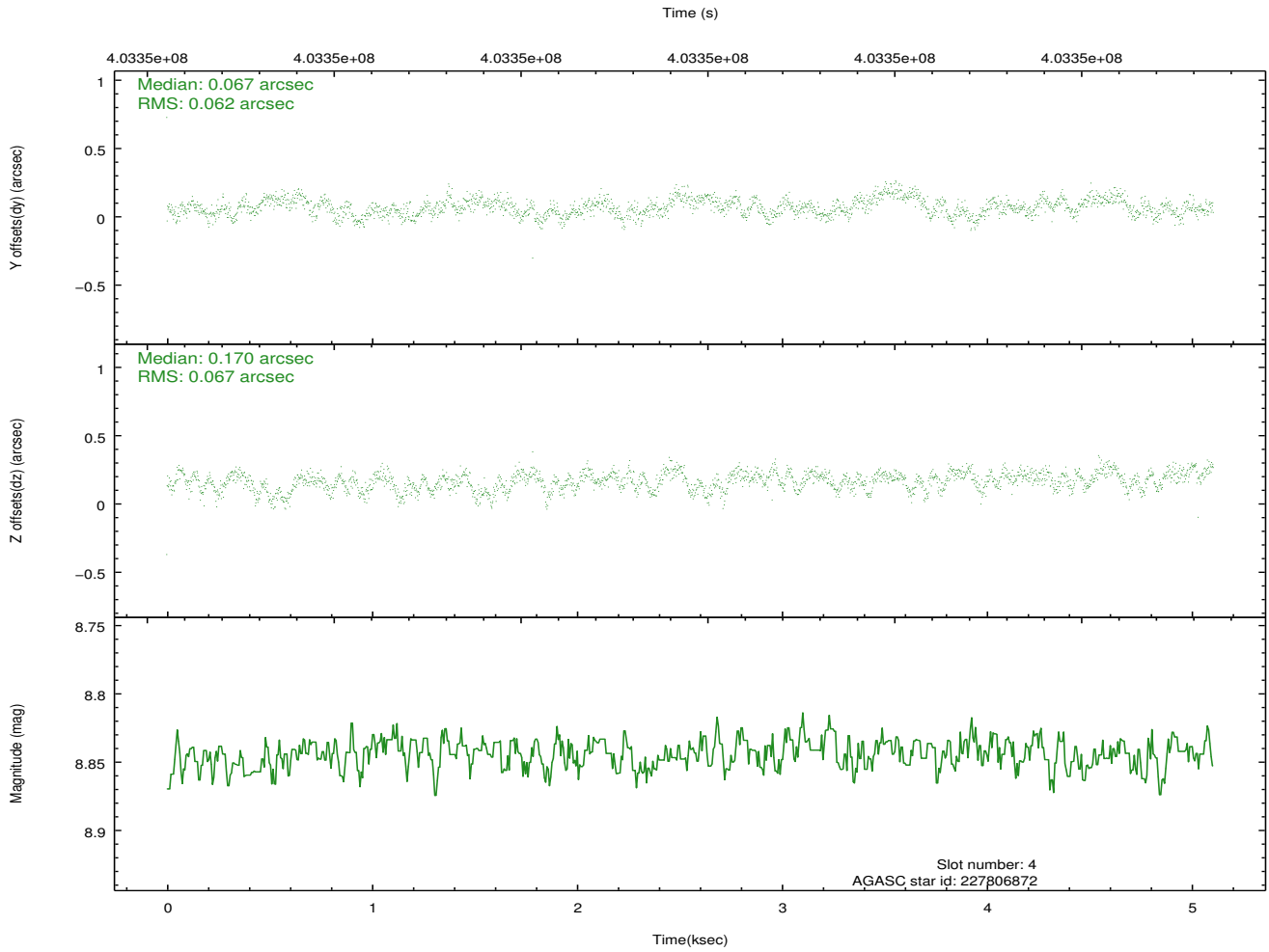
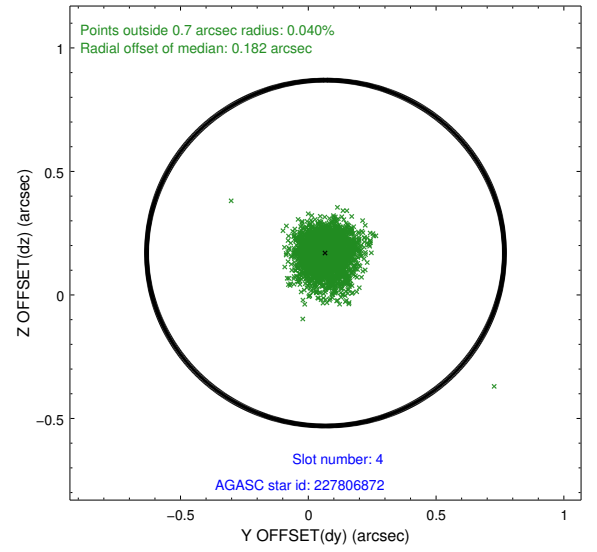
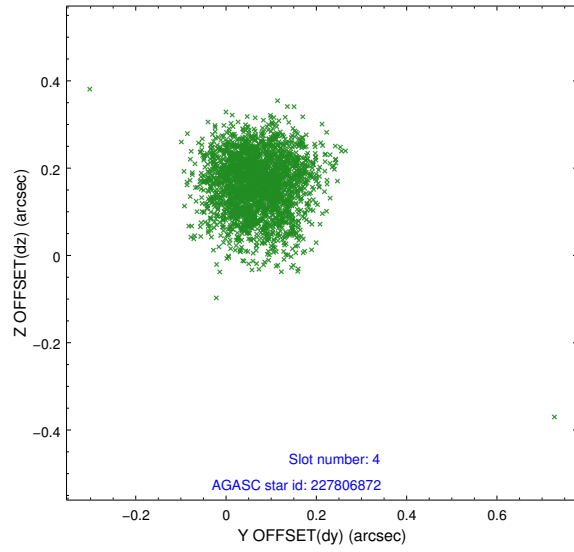
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.97	1246	0.129	-0.083	0.008	0.014	0.000000	0.000000	925.66	-1734.91
1	FID	ACIS-S-5	7.01	1246	-0.144	0.099	0.007	0.013	0.000000	0.000000	-1822.97	161.58
2	FID	ACIS-S-6	7.12	1246	-0.007	-0.005	0.008	0.014	0.000000	0.000000	389.77	806.80
3	GUIDE	156369312	8.43	2492	-0.191	-0.139	0.070	0.111	9.503008	22.496311	1169.75	1740.04
4	GUIDE	227806872	8.84	2488	0.067	0.170	0.097	0.154	9.846435	23.685207	-1953.42	-1397.23
5	GUIDE	227813984	9.51	2486	0.073	0.143	0.112	0.181	9.742302	23.549318	-1412.80	-1146.55
6	GUIDE	156371224	8.94	2490	0.028	-0.020	0.097	0.160	9.232771	22.303569	2295.42	1889.48
7	GUIDE	227815016	9.32	2488	0.020	-0.144	0.111	0.182	10.454217	22.829131	-2165.99	2275.24

## 2.4 Star Slots

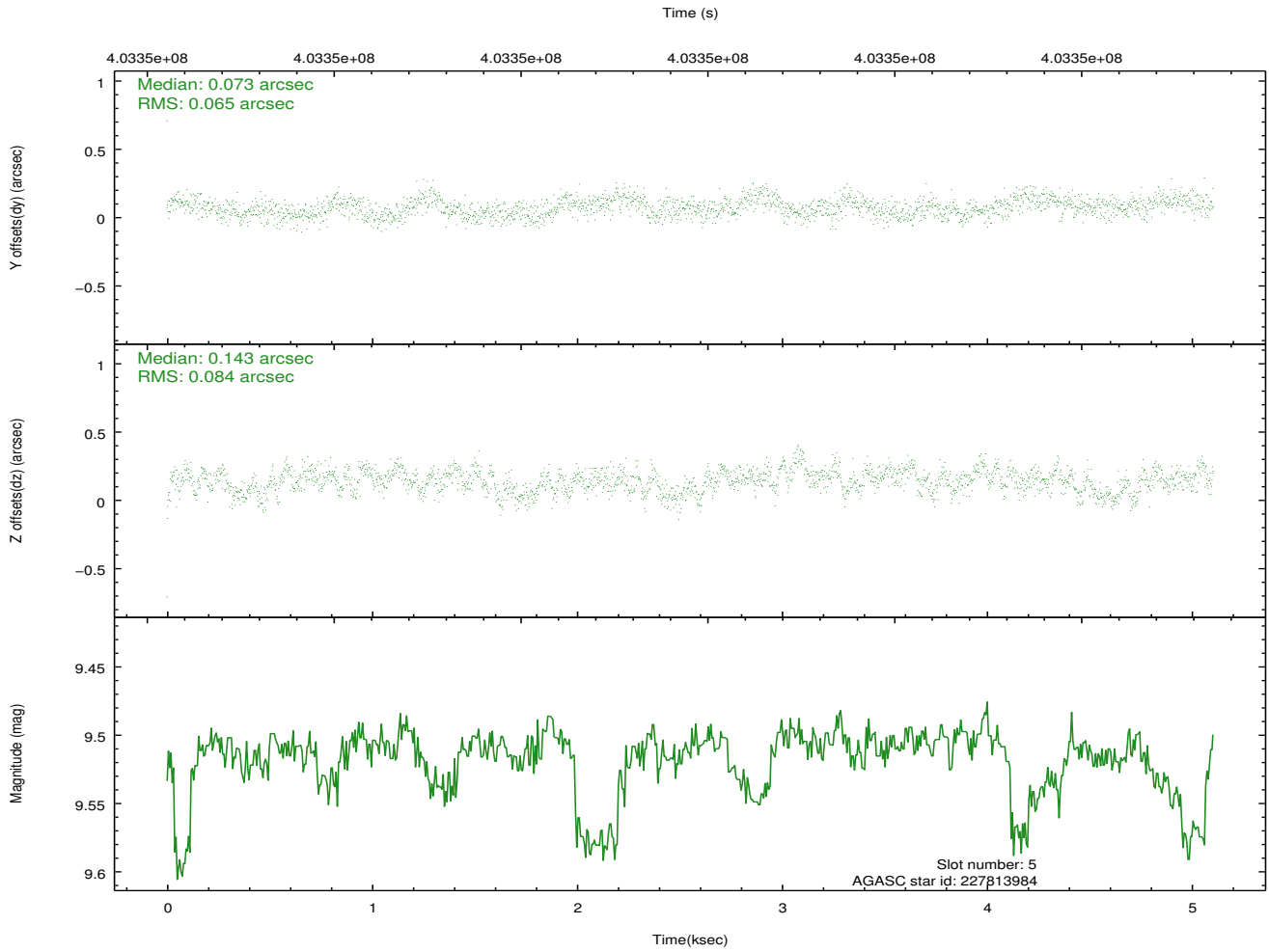
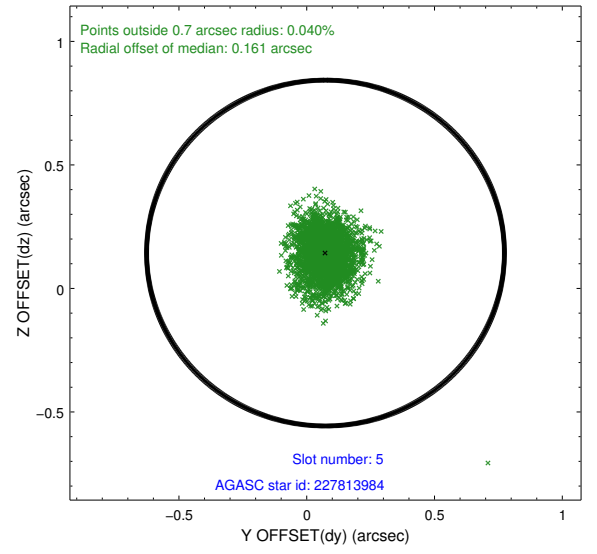
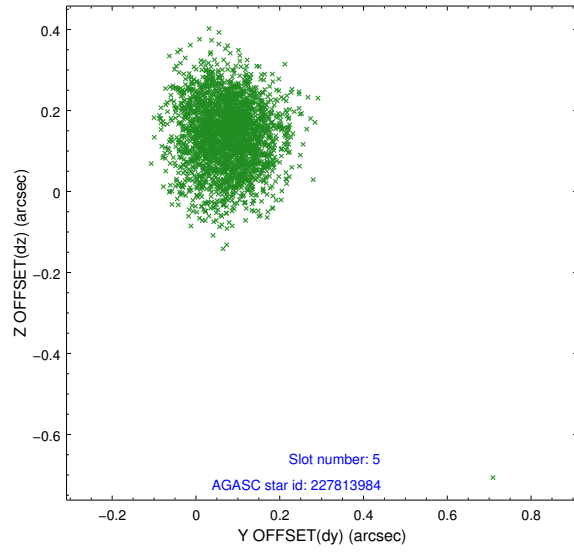
### 2.4.1 Slot 3



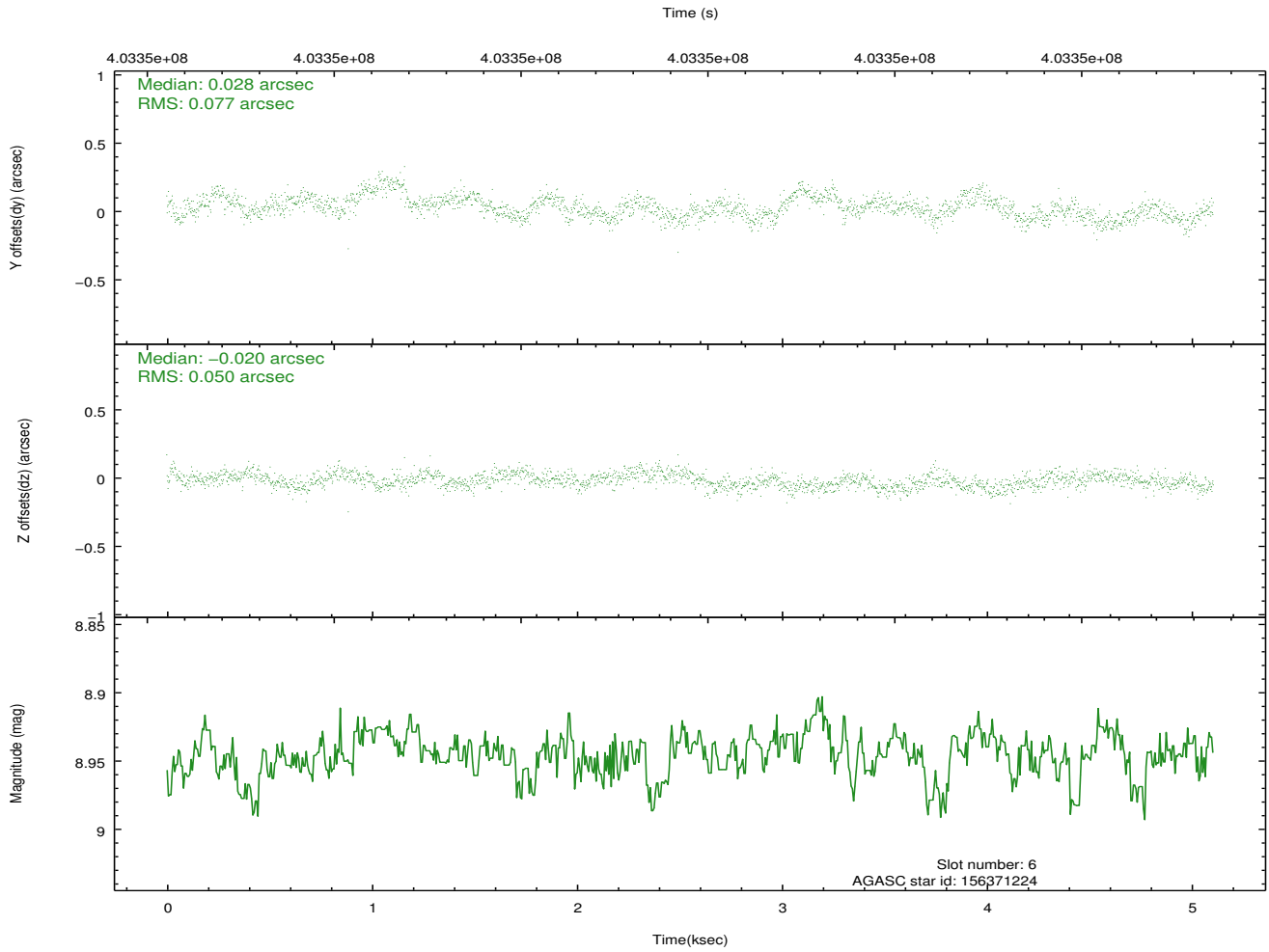
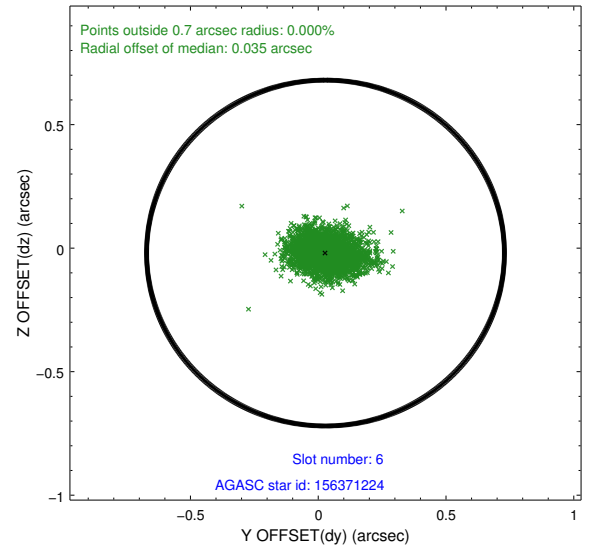
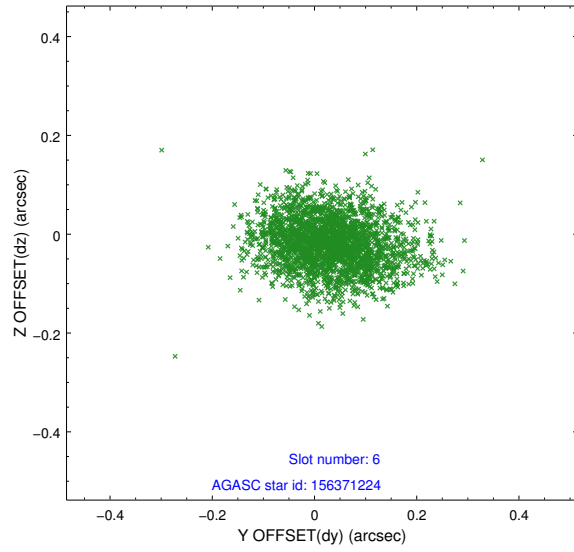
## 2.4.2 Slot 4



### 2.4.3 Slot 5

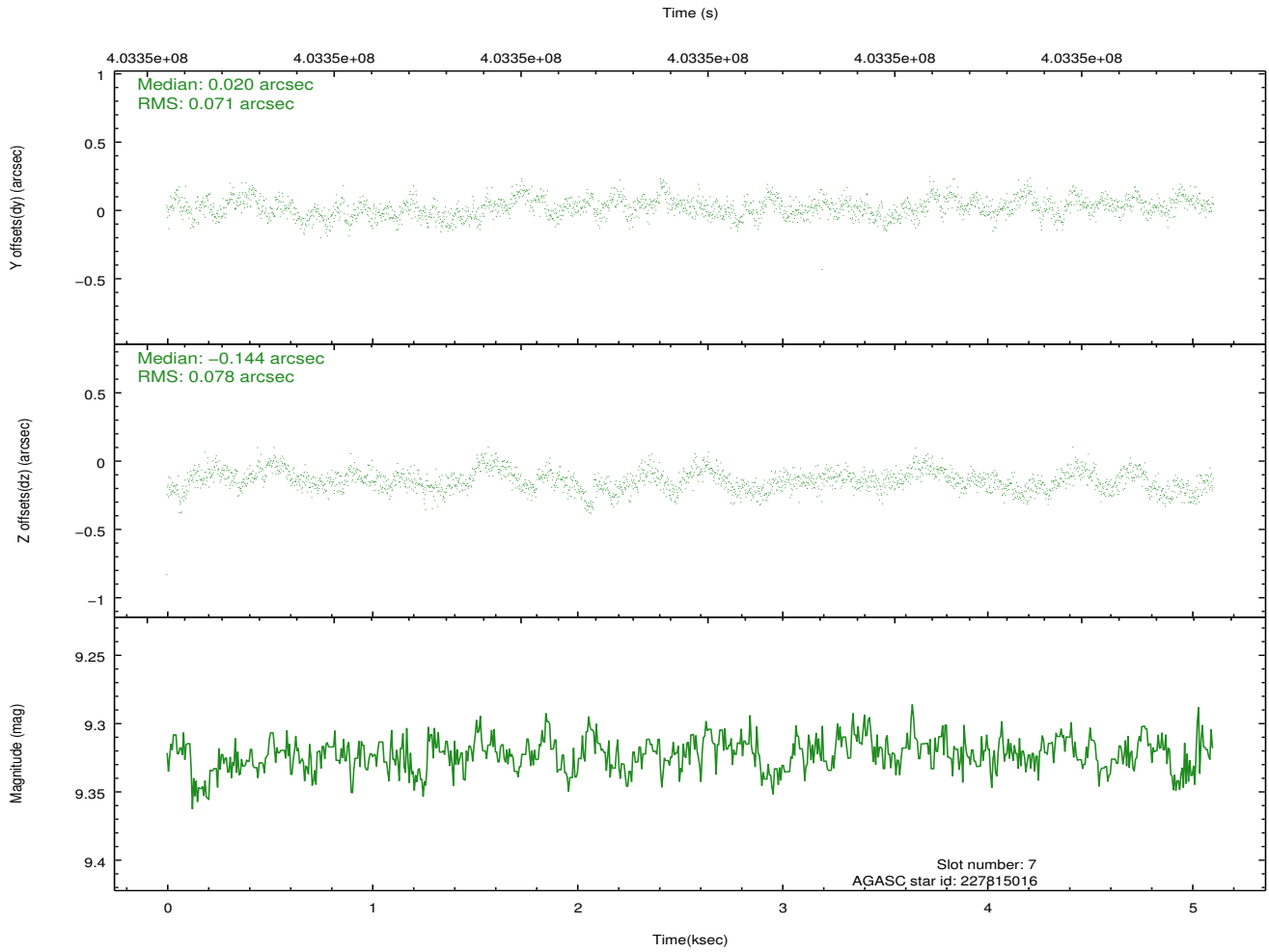
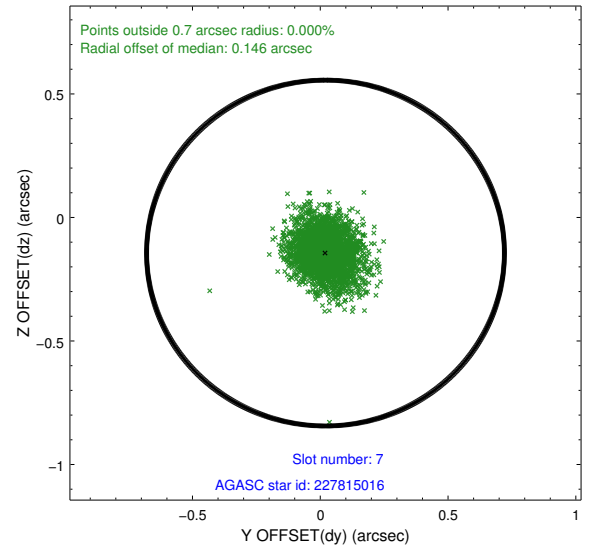
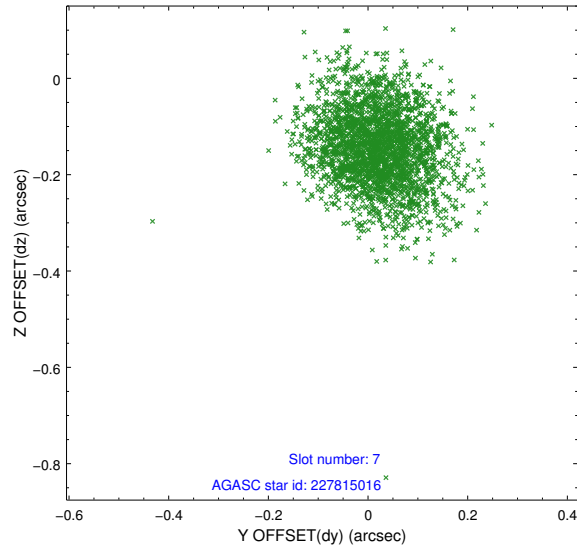


## 2.4.4 Slot 6



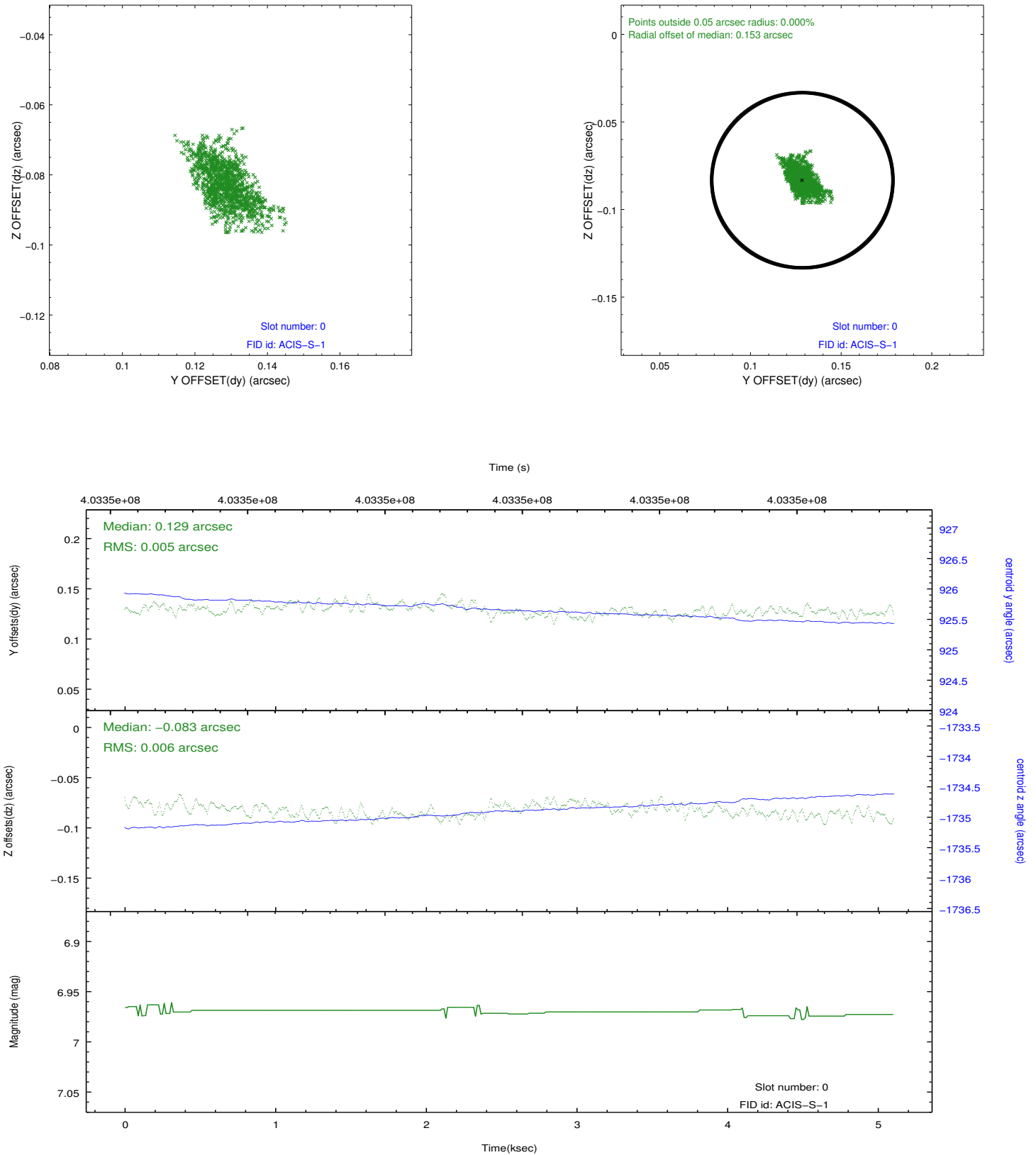


## 2.4.5 Slot 7

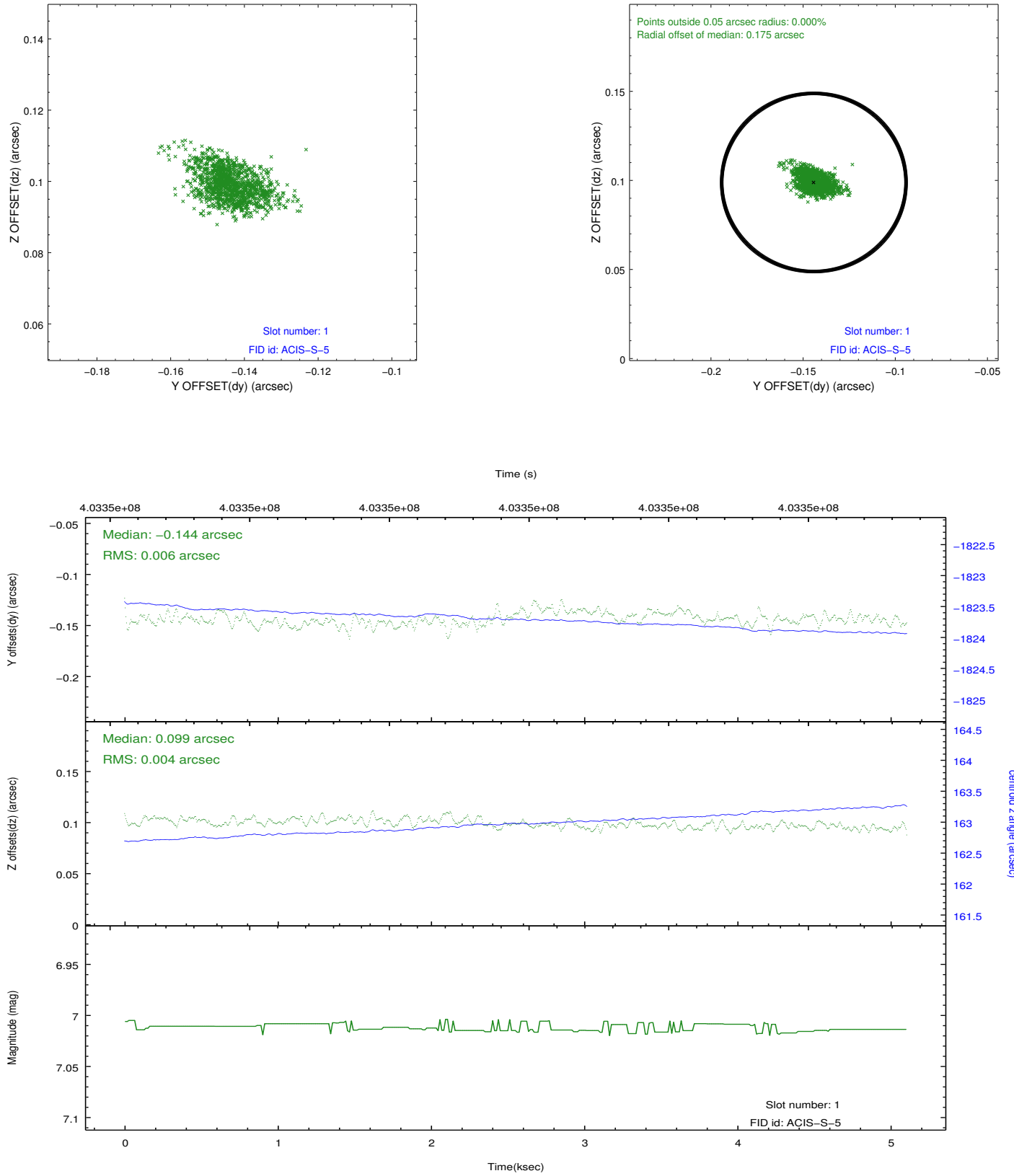


## 2.5 FID Slots

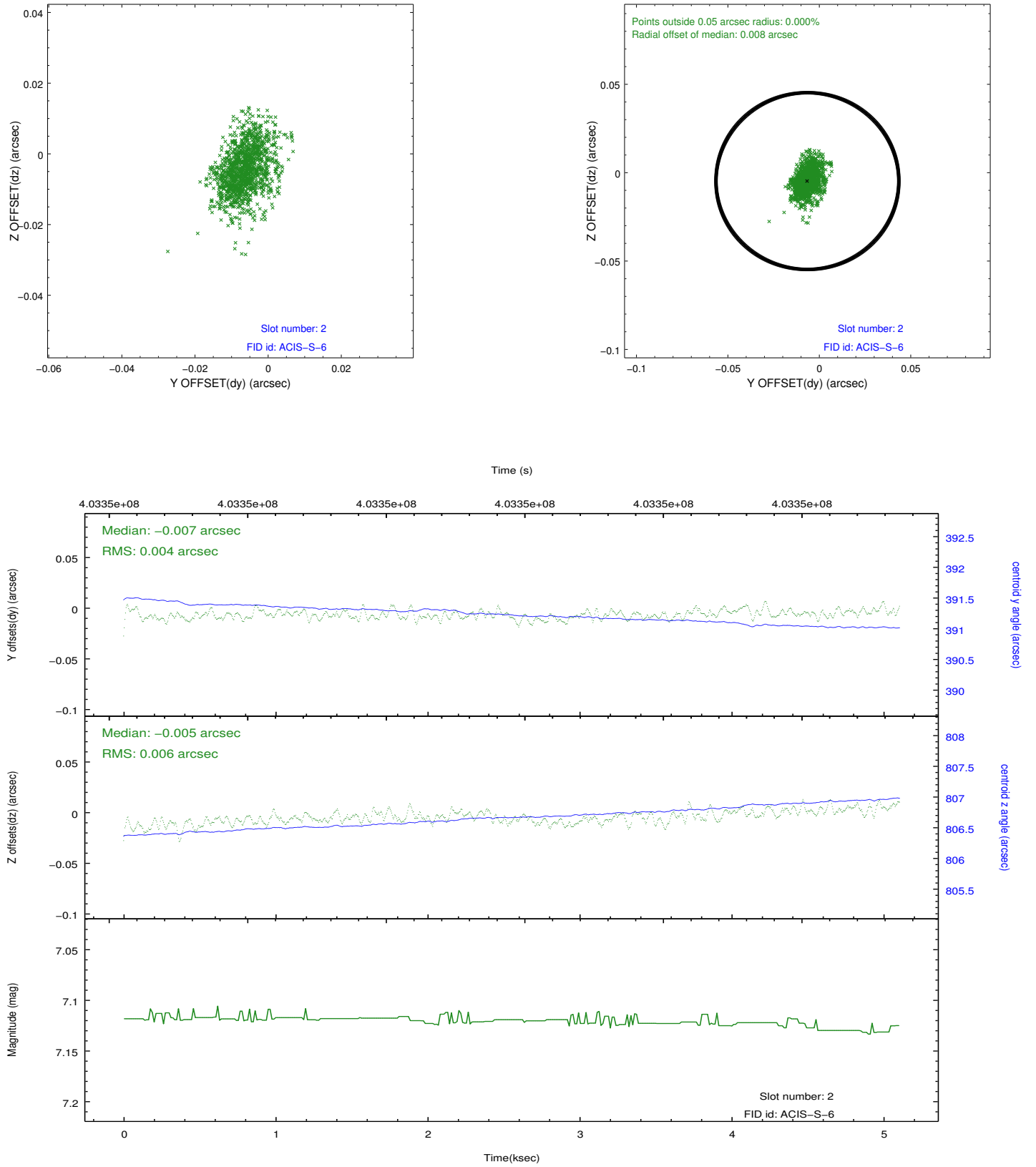
### 2.5.1 Slot 0



## 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)	2012.07.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0644693917036

### **A.2 Comments**