

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 69 - L2 Version 4  
Chandra X-Ray Center

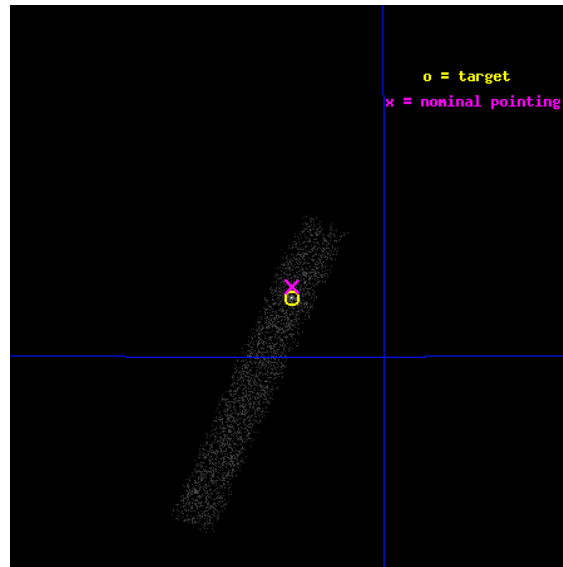
L2 Processing Date : Aug 24 2012

## 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

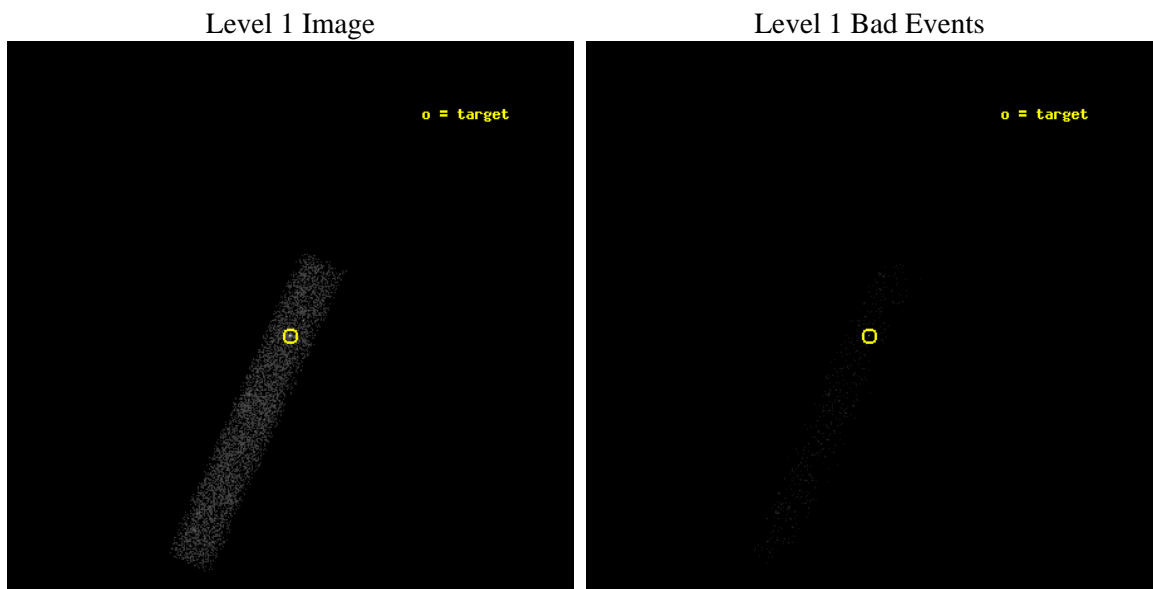
seq_num	790040	Sequence number
obs_id	69	Observation id
title	&#160	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	PG1634+706	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	248.620833	Observer's specified target RA [deg]
dec_targ	70.525556	Observer's specified target Dec [deg]
ra_nom	248.62065057604	Nominal RA [deg]
dec_nom	70.530350657572	Nominal Dec [deg]
roll_nom	114.15464855769	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5357.6000798345	Sum of GTIs [s]
livetime	4859.0604750902	Livetime [s]
ontime7	5357.6000798345	Sum of GTIs [s]
l2events	5189	Number of level 2 events



## 2 OBI

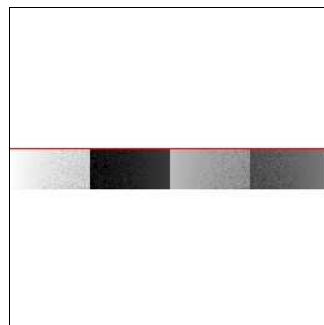
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	5500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5357.6000798345	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime7	5357.6000798345	Sum of GTIs [s]
date	2012-08-24T16:02:19	Date and time of file creation	l1events	8696	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	8696
rejected events	3282
rejected %	37%

	<b>ccd 7</b>
grade 0 events	1056
	12%
grade 1 events	10
	0%
grade 2 events	1171
	13%
grade 3 events	651
	7%
grade 4 events	685
	7%
grade 5 events	596
	6%
grade 6 events	1854
	21%
grade 7 events	2673
	30%

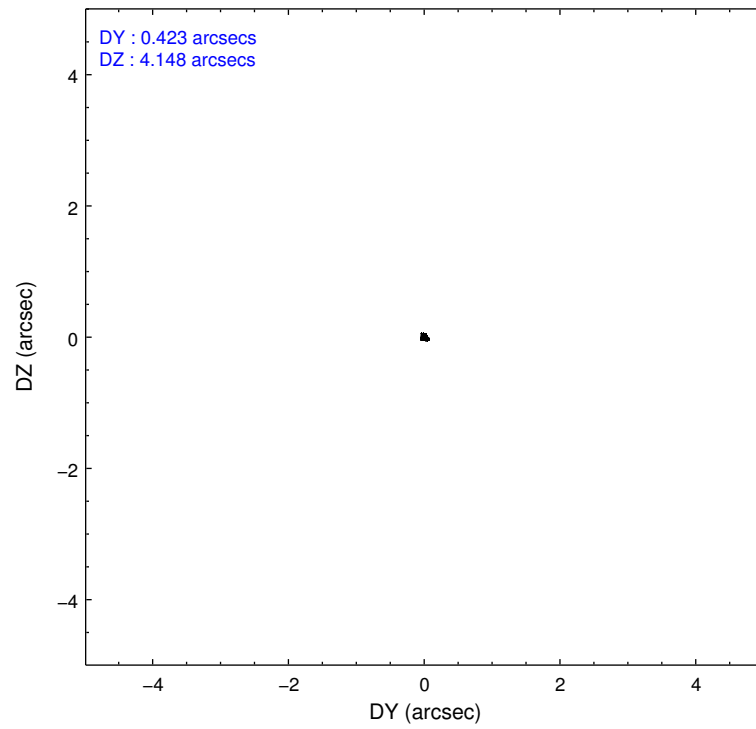
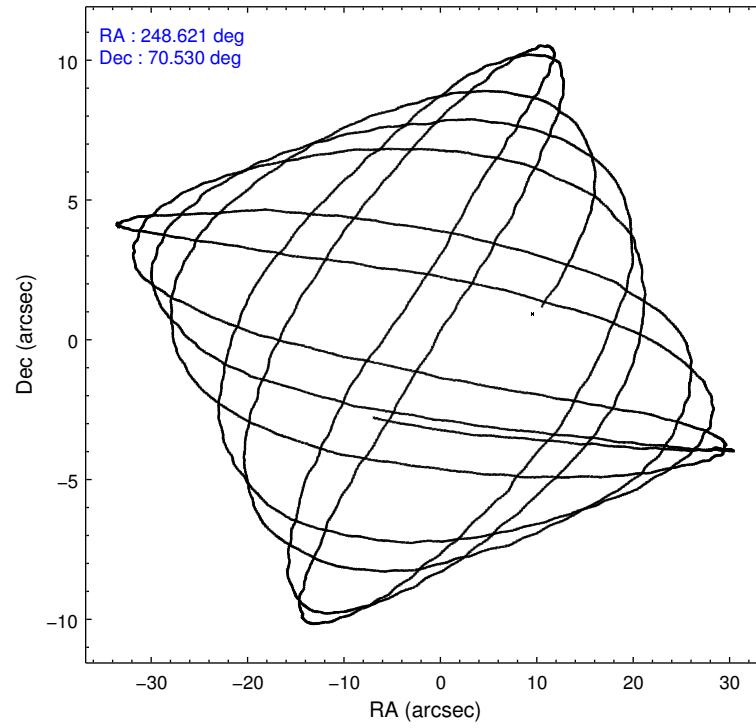


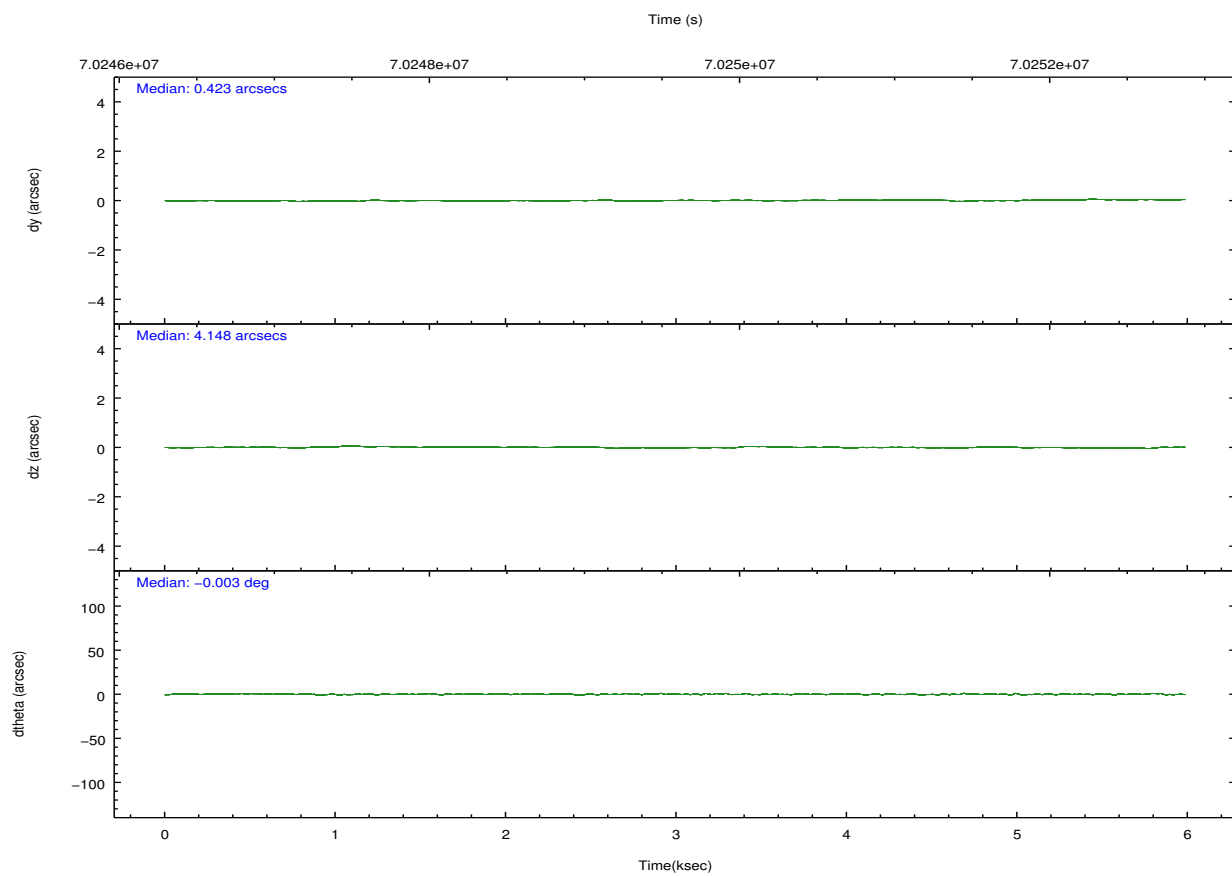
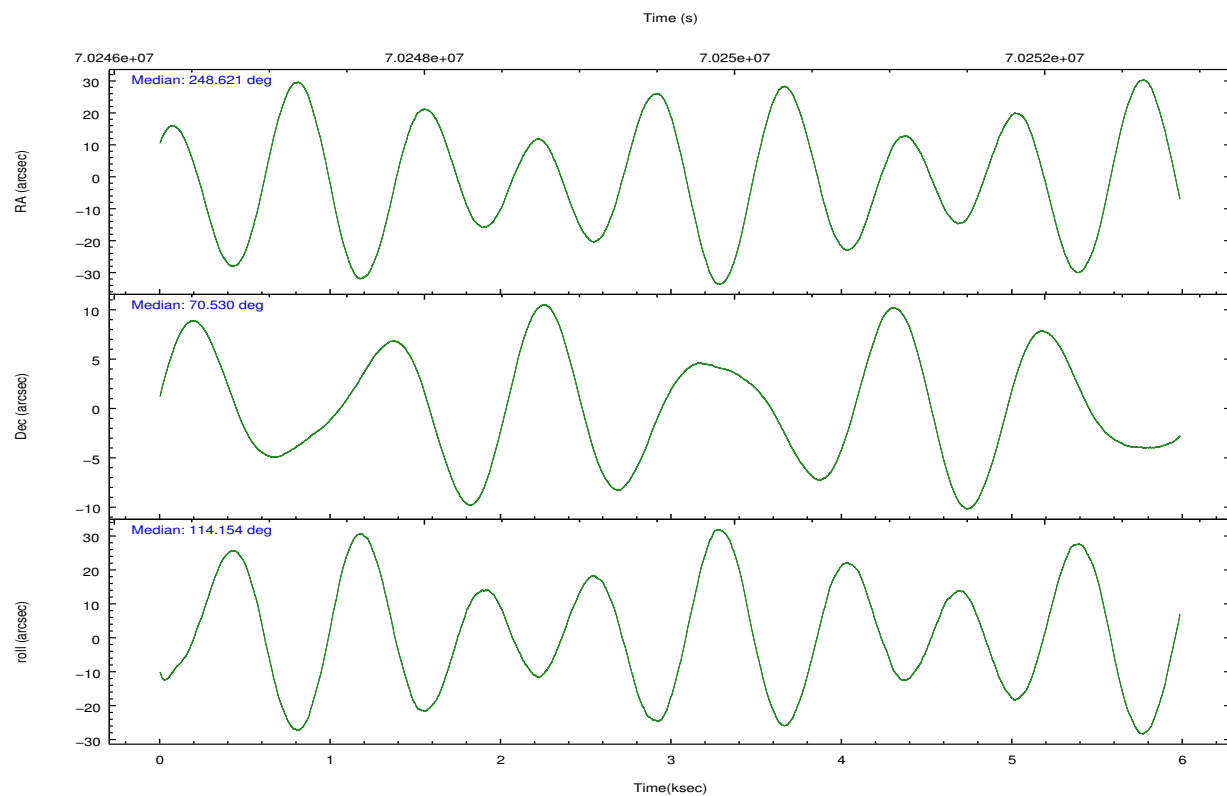
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	248.687307	248.6206505760432
[deg] Pointing Dec	70.514268	70.53035065757177
[deg] Pointing Roll	113.935177	114.1546485576948
[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)	70247079.184000	70246412.950651
Observation start date	2000-03-24T01:03:35	2000-03-24T00:53:32
[s] Observation end time (MET)	70252579.184000	70252713.113381
Observation end date	2000-03-24T02:35:15	2000-03-24T02:38:33
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	CUSTOM	1/8
Subarray start row	447	447
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

## 2.3 Aspect



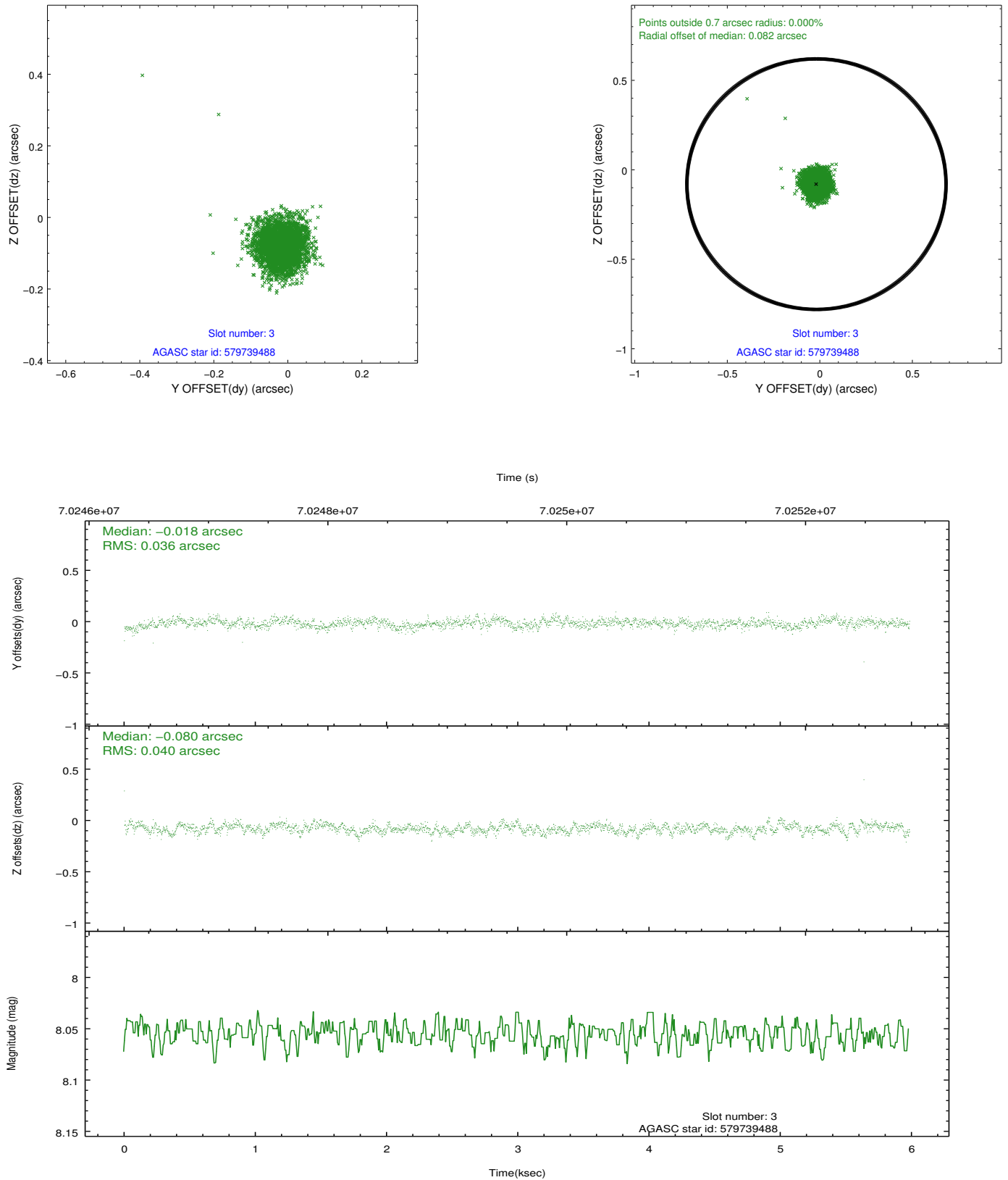


### Slot Statistics

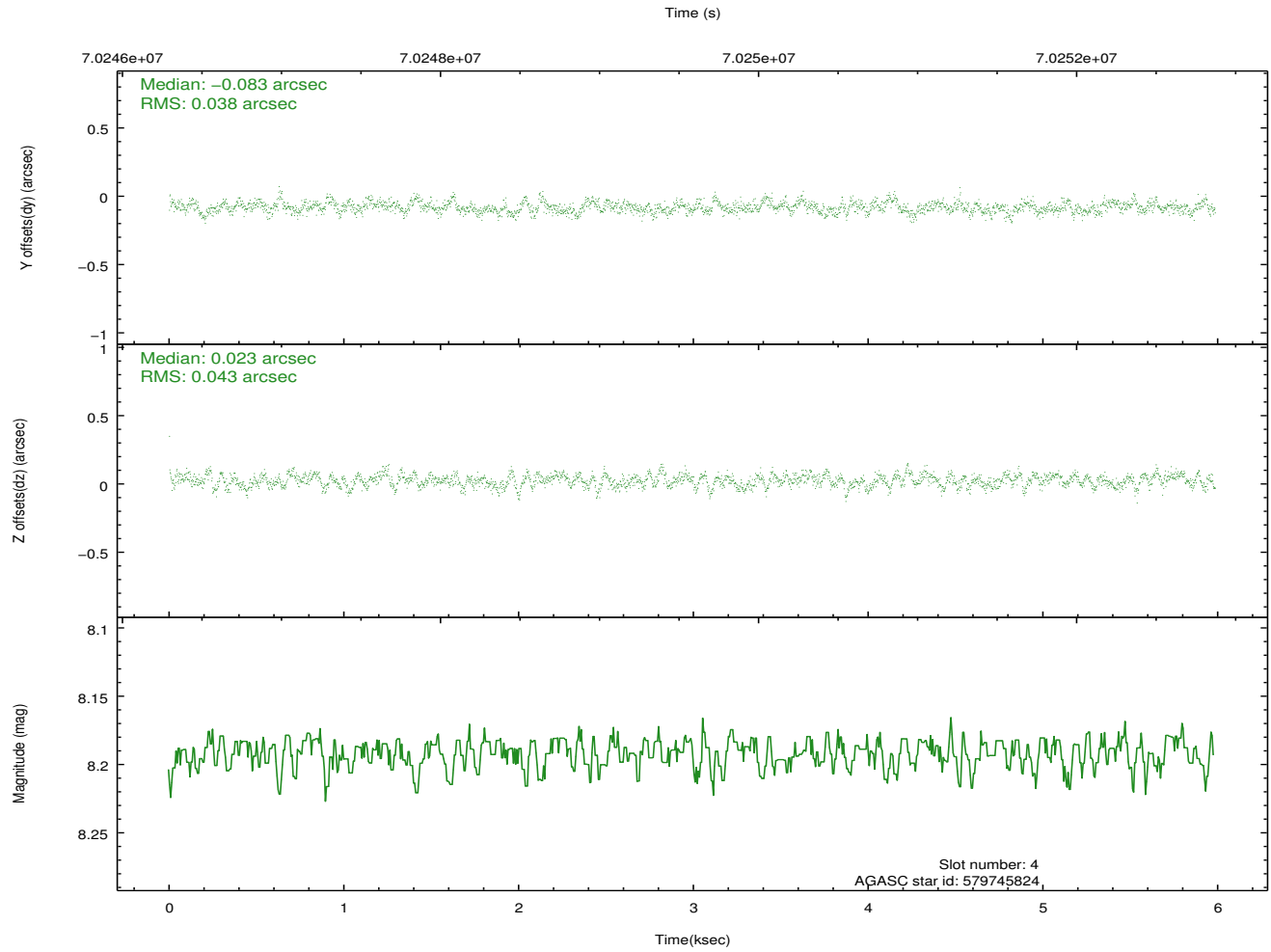
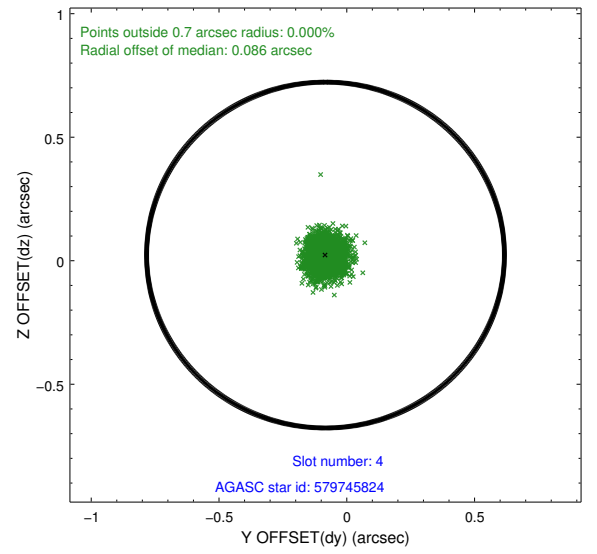
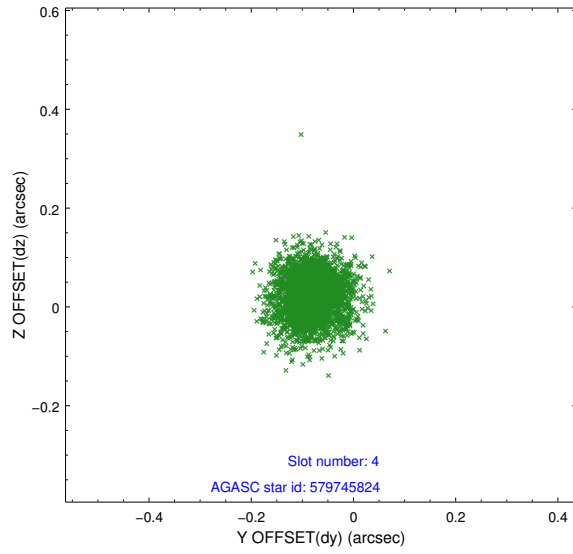
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1460	-0.014	-0.014	0.007	0.011	0.000000	0.000000	-753.04	-1725.18
1	FID	ACIS-S-4	7.21	1460	0.019	0.011	0.006	0.010	0.000000	0.000000	2159.86	182.25
2	FID	ACIS-S-5	7.24	1460	-0.036	0.012	0.007	0.011	0.000000	0.000000	-1804.59	177.12
3	GUIDE	579739488	8.05	2919	-0.018	-0.080	0.055	0.089	248.280801	70.616878	536.20	293.23
4	GUIDE	579745824	8.19	2920	-0.083	0.023	0.061	0.099	250.088877	70.237575	-1584.39	-1163.09
5	GUIDE	579737248	8.22	2920	0.045	-0.103	0.058	0.092	248.298145	70.578372	400.87	330.96
6	GUIDE	579742240	9.57	2856	0.098	0.111	0.104	0.168	248.342106	71.104022	2105.32	-493.65
7	GUIDE	579743712	9.50	2918	-0.039	0.054	0.084	0.134	248.638856	70.070449	-1435.49	702.30

## 2.4 Star Slots

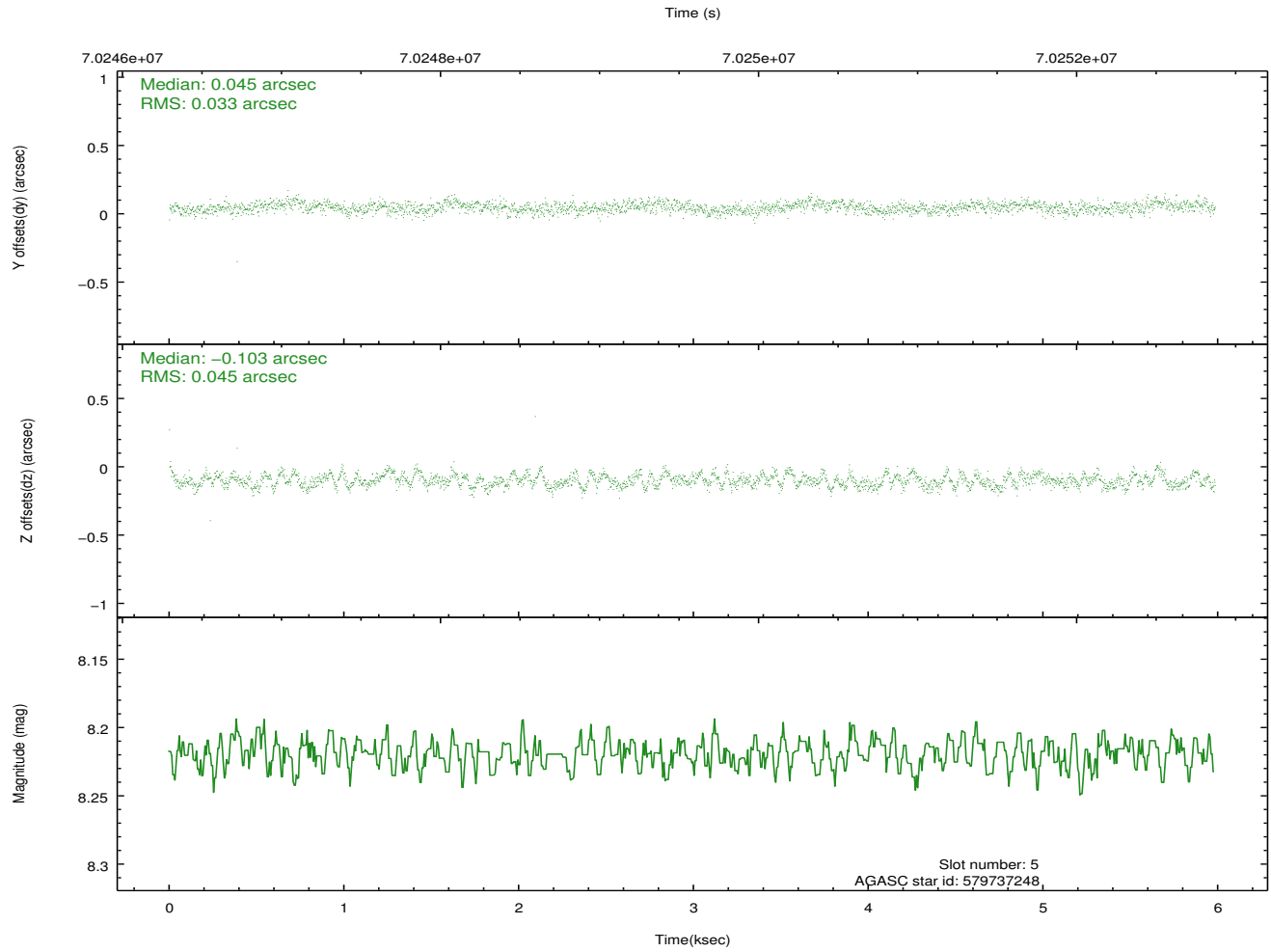
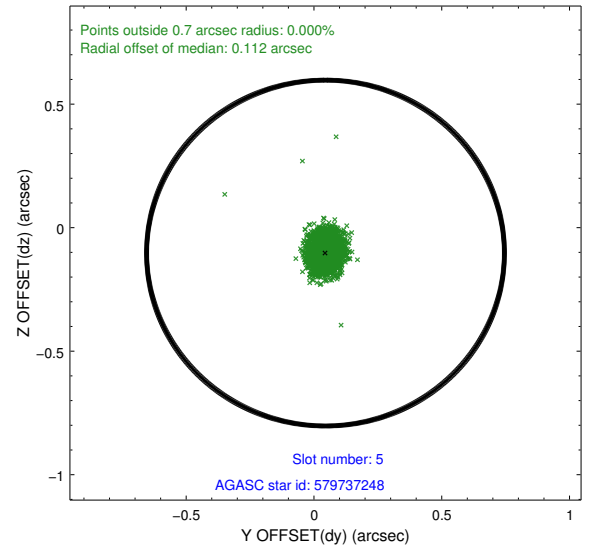
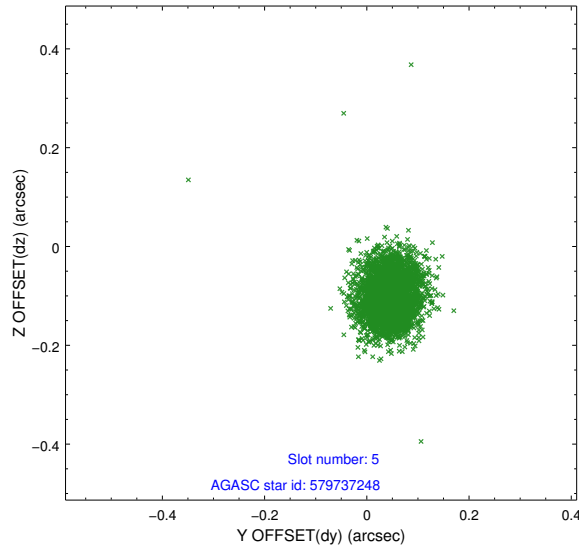
### 2.4.1 Slot 3



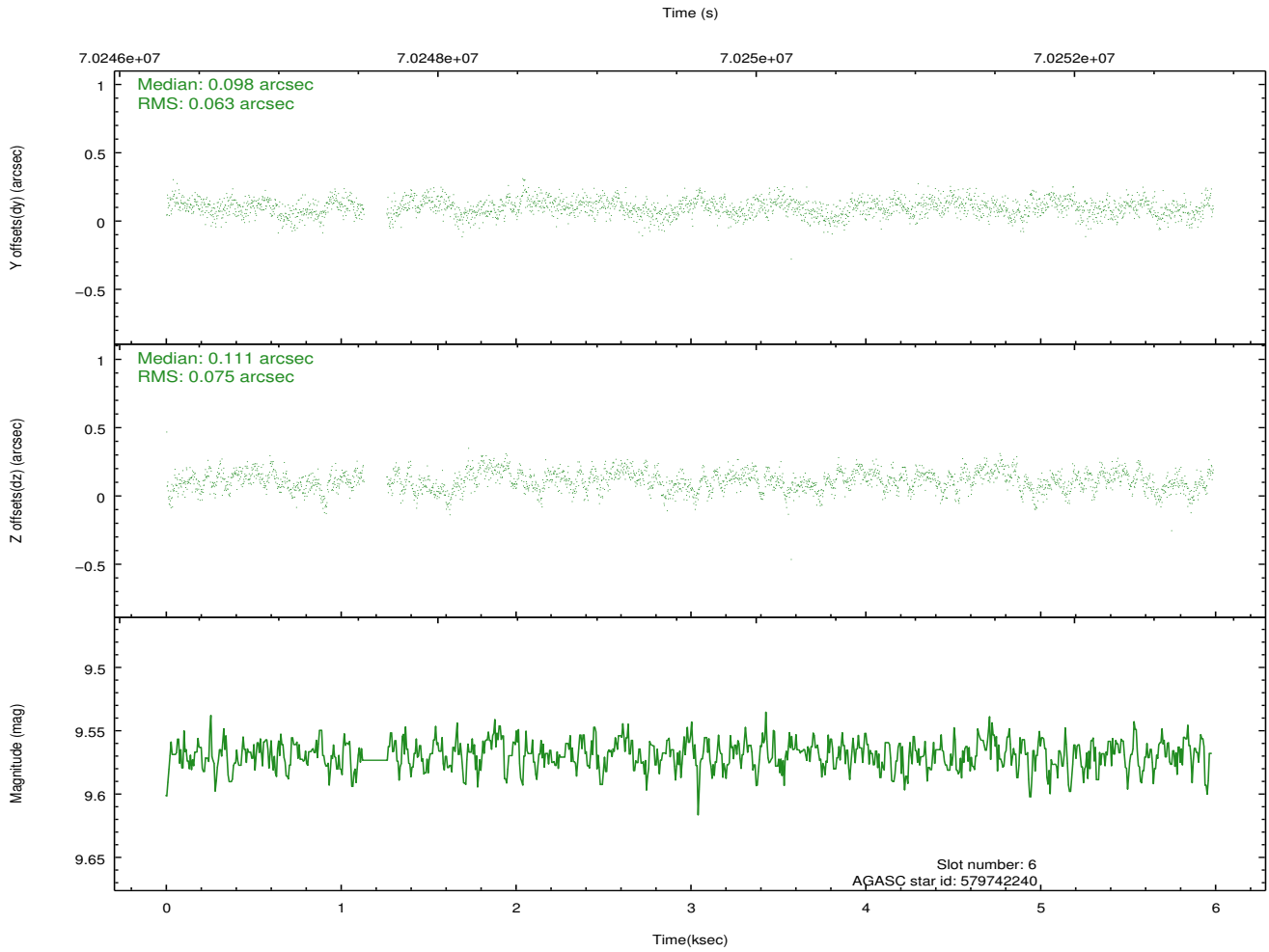
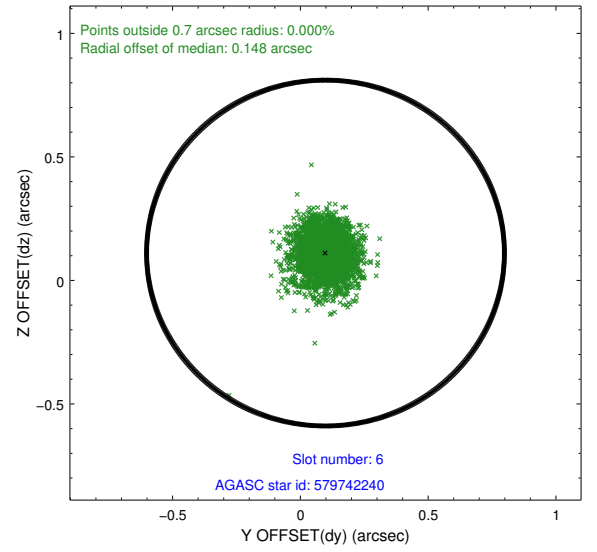
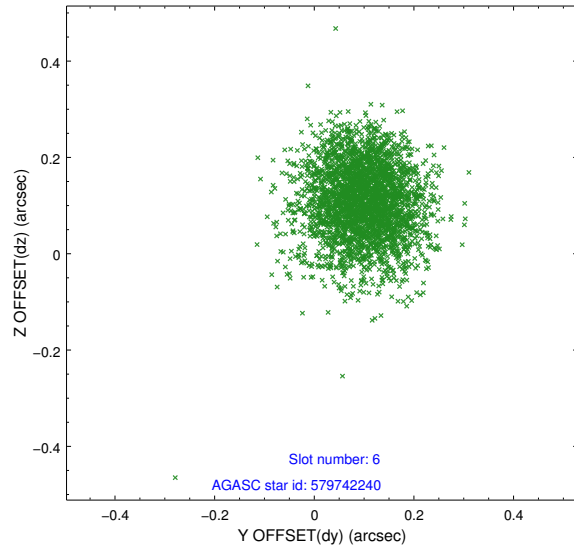
## 2.4.2 Slot 4



### 2.4.3 Slot 5

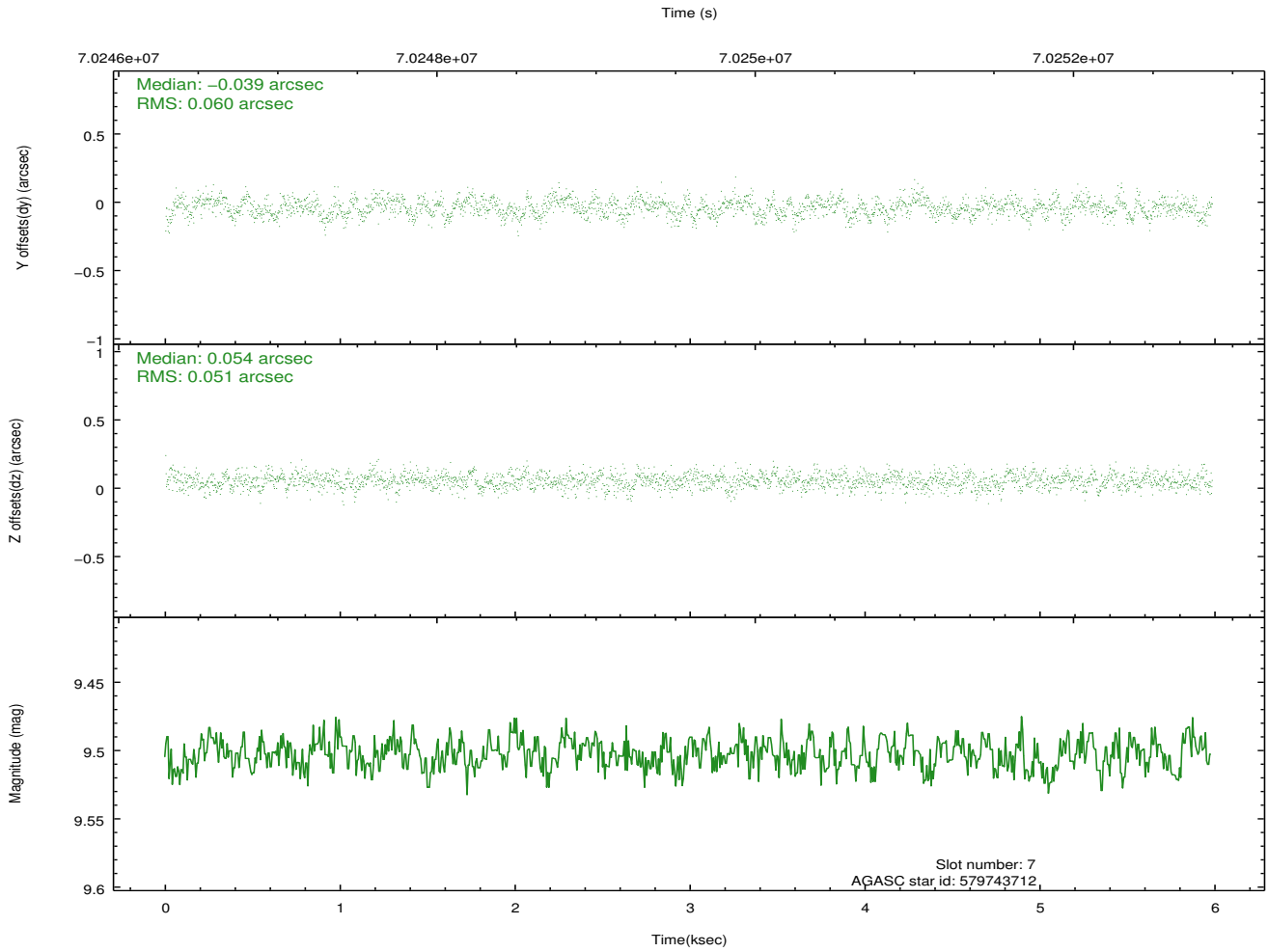
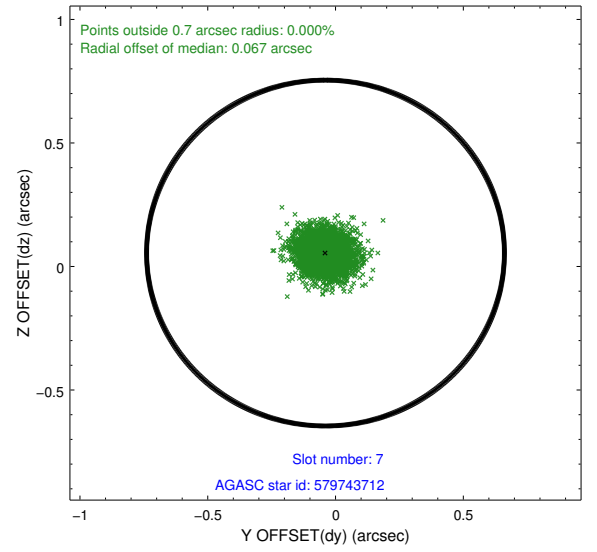
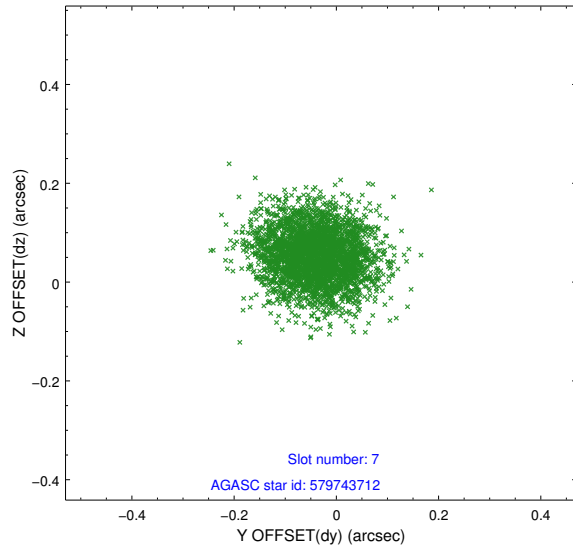


## 2.4.4 Slot 6



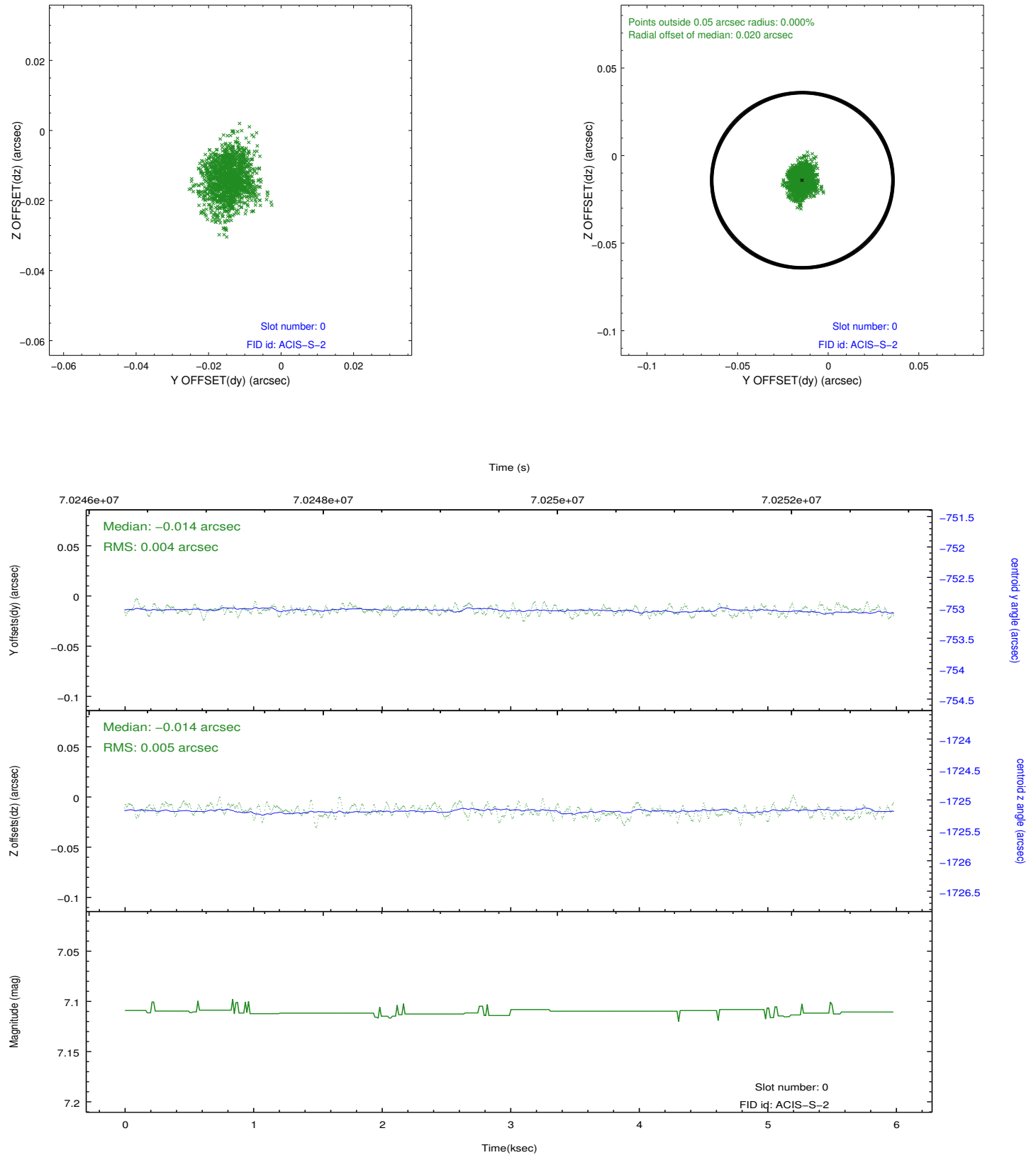


## 2.4.5 Slot 7

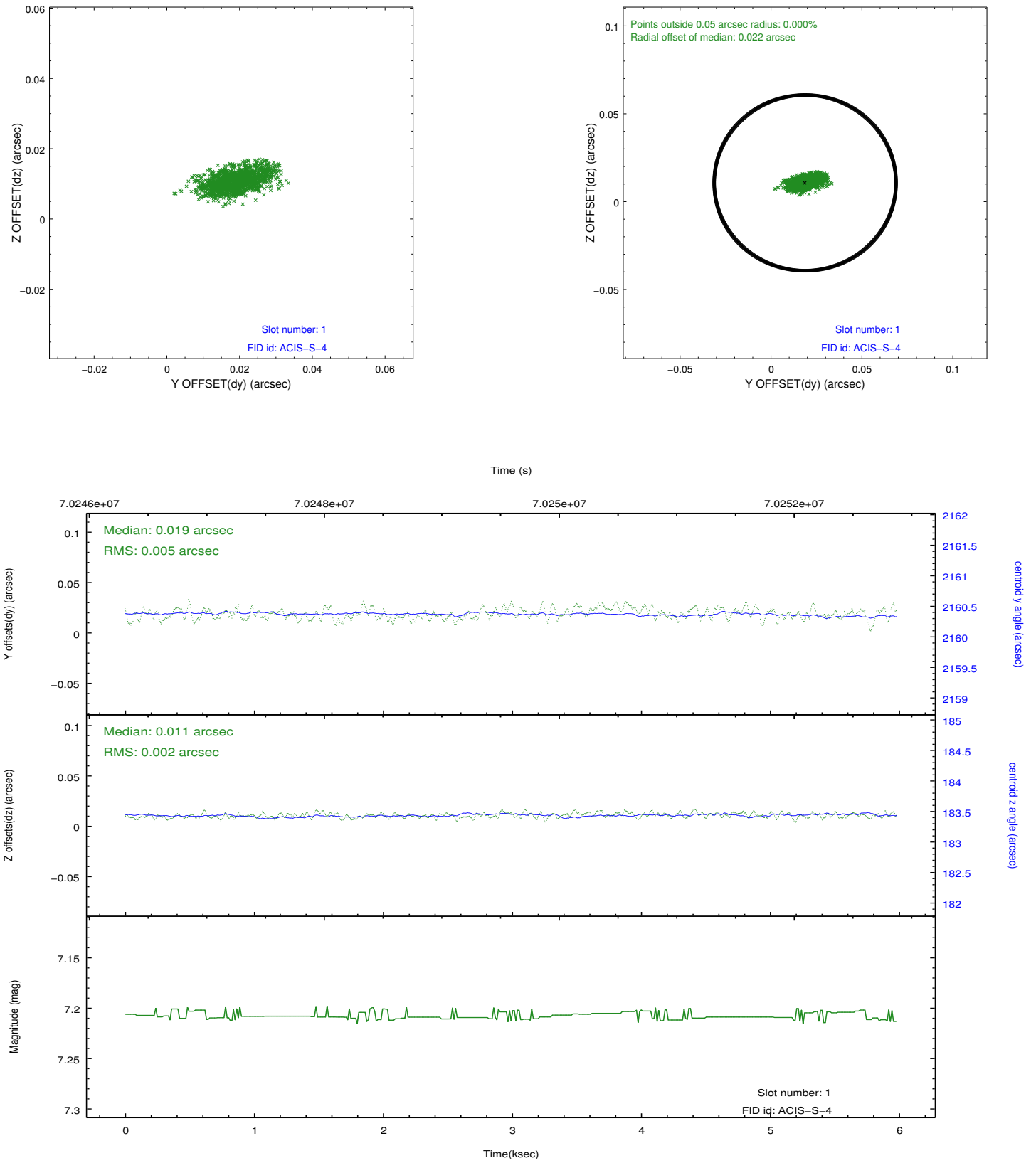


## 2.5 FID Slots

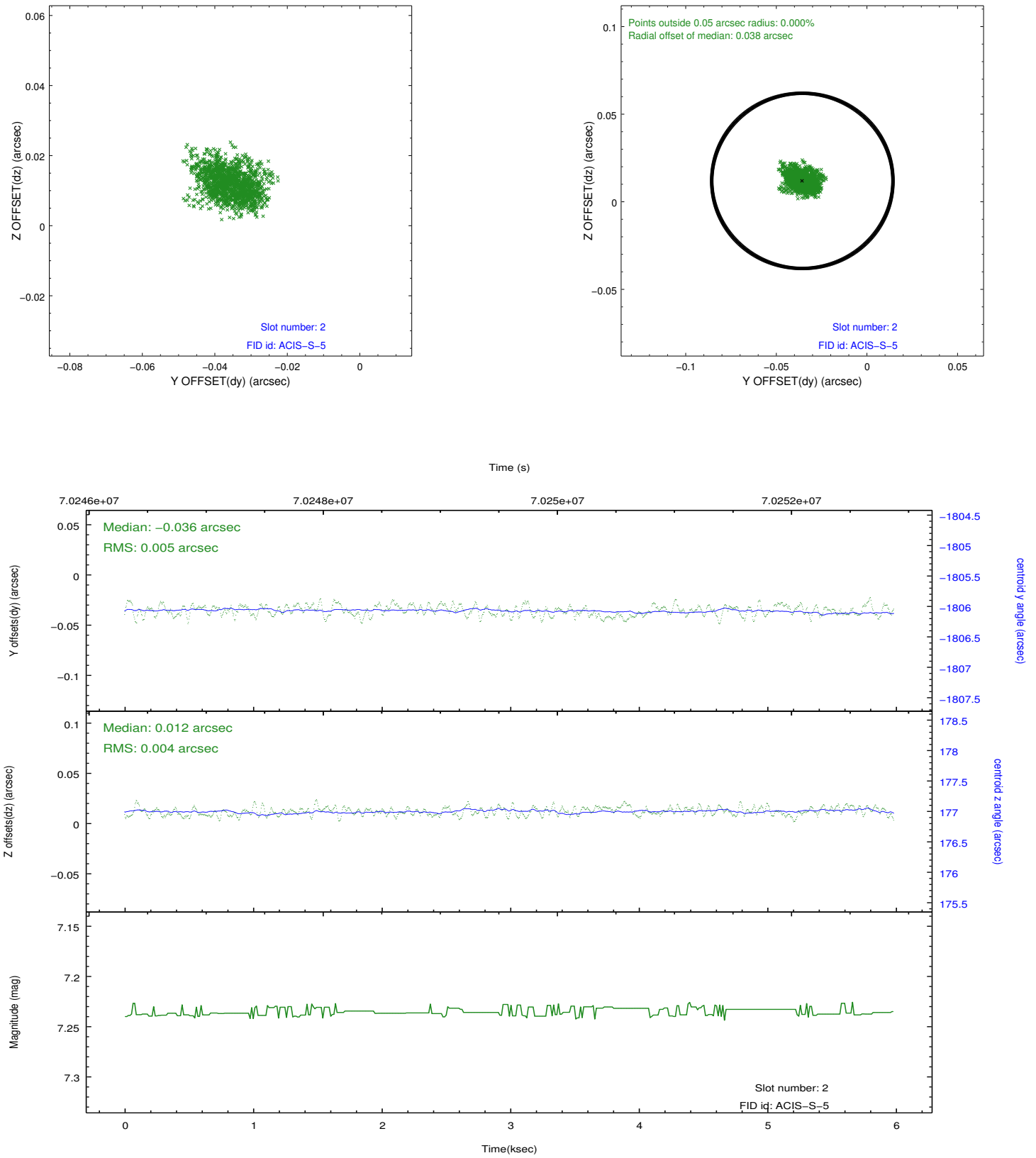
### 2.5.1 Slot 0



## 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)	2012.08.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.358

### A.2 Comments