

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9262 - L2 Version 2  
Chandra X-Ray Center

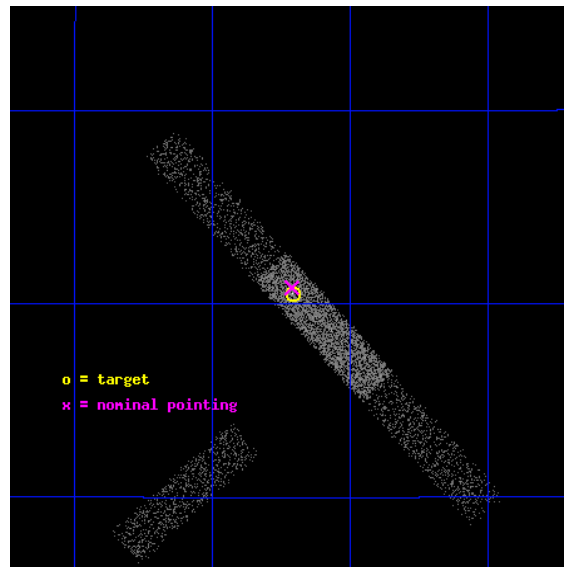
L2 Processing Date : May 8 2012

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# 1 Front

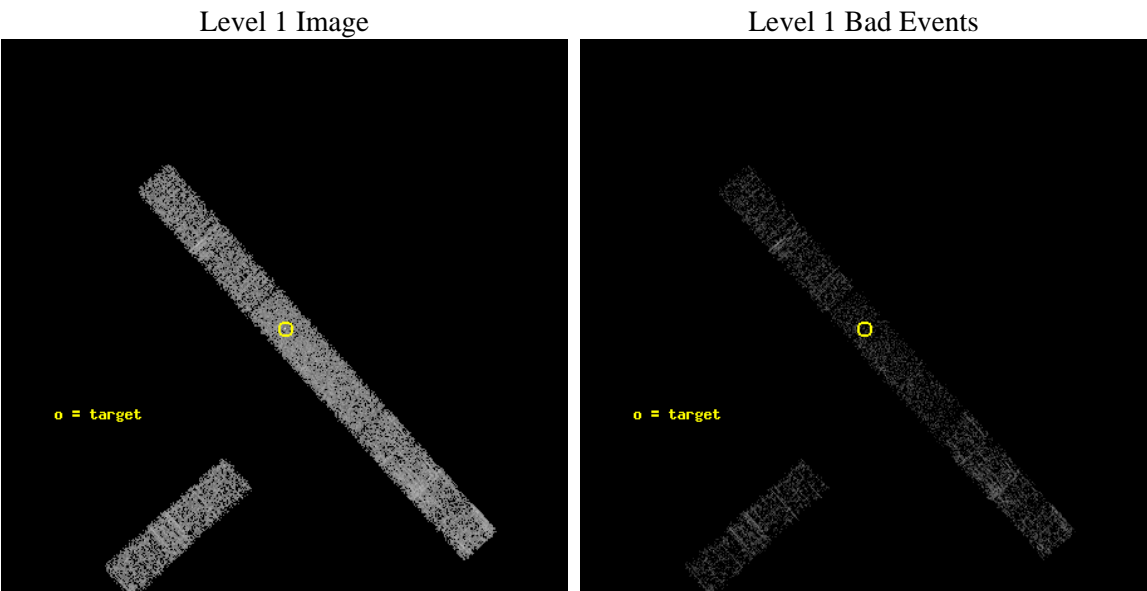
seq_num	701703	Sequence number
obs_id	9262	Observation id
title	Orientation effects in the X-ray and multi-wavelength properties of high-z, 3CRR quasars.	Proposal title
observer	Dr. Belinda Wilkes	Principal investigator
object	4C 16.49	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	263.677083	Observer's specified target RA [deg]
dec_targ	16.008833	Observer's specified target Dec [deg]
ra_nom	263.67804351877	Nominal RA [deg]
dec_nom	16.013688405418	Nominal Dec [deg]
roll_nom	48.02290255769	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3119.0	Sum of GTIs [s]
livetime	2996.0424191194	Livetime [s]
ontime3	3119.0	Sum of GTIs [s]
ontime6	3119.0	Sum of GTIs [s]
ontime7	3119.0	Sum of GTIs [s]
ontime8	3119.0	Sum of GTIs [s]
l2events	7577	Number of level 2 events



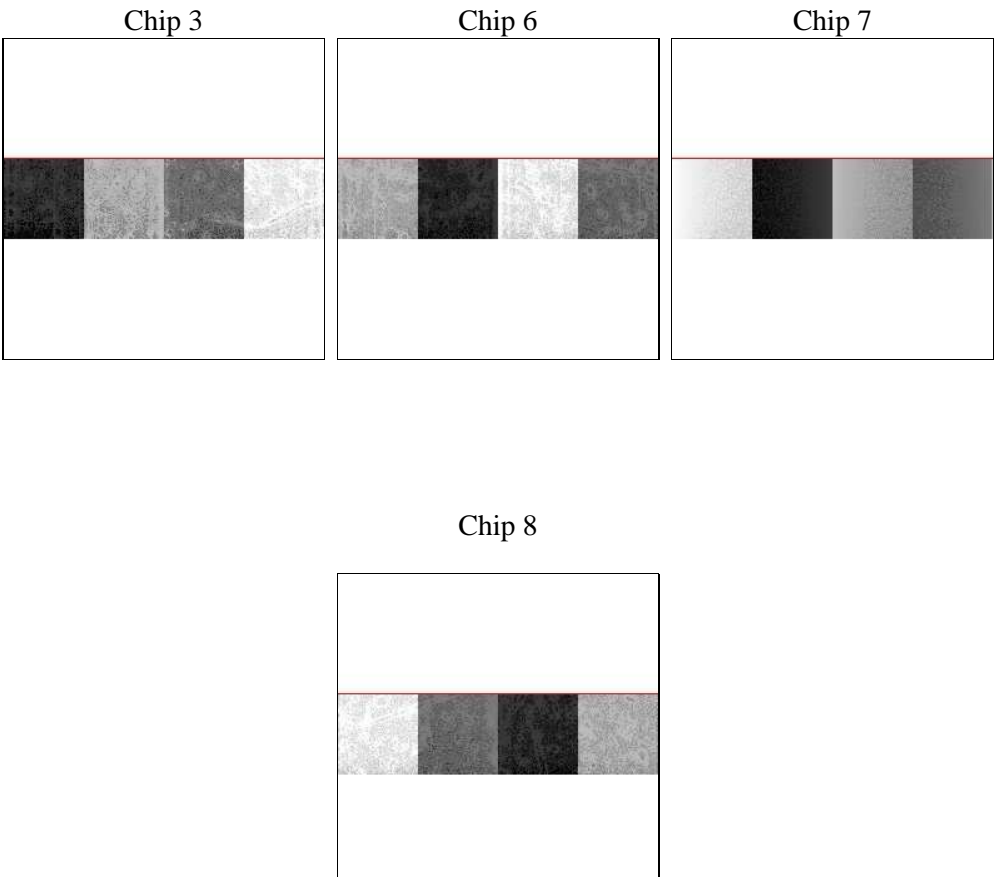
# 2 OBI

## 2.1 OBI

### 2.1.1 Images



### 2.1.2 Bias



Chip 8



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	3119.0	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime3	3119.0	Sum of GTIs [s]
date	2012-05-08T14:12:24	Date and time of file creation	ontime6	3119.0	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	3119.0	Sum of GTIs [s]
			ontime8	3119.0	Sum of GTIs [s]
			l1events	51726	Number of level 1 events

### 2.1.4 Events

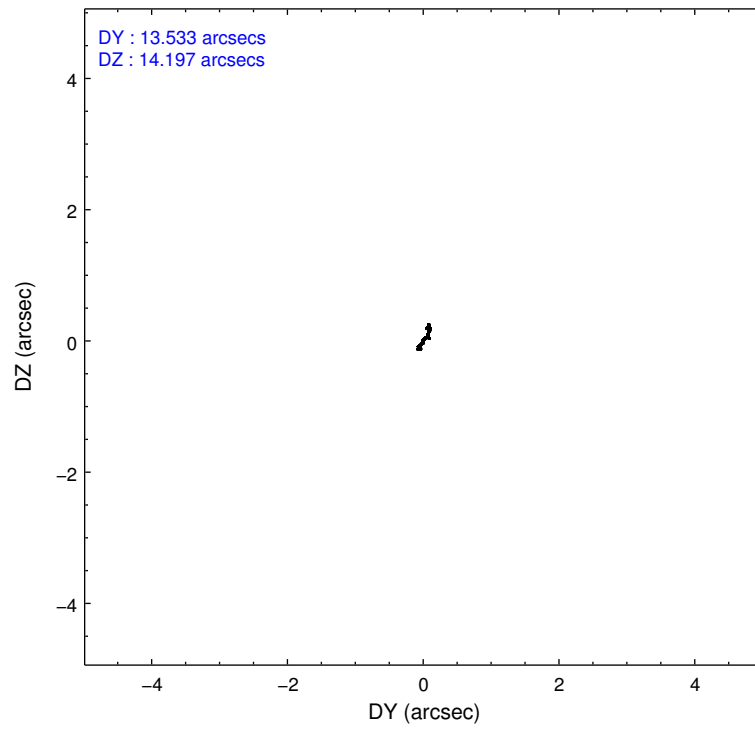
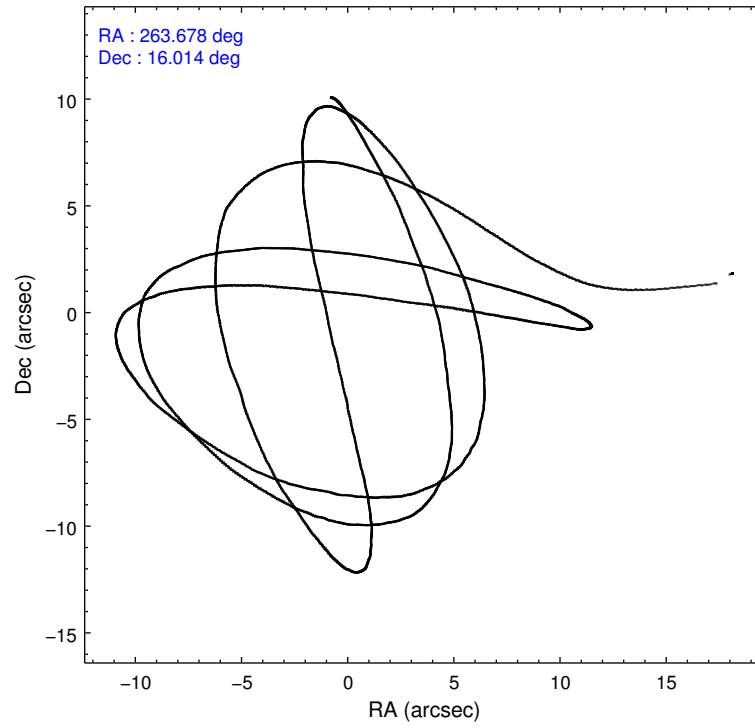
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	10991	11346	14190	15199
rejected events	9924	10256	9211	12634
rejected %	90%	90%	64%	83%

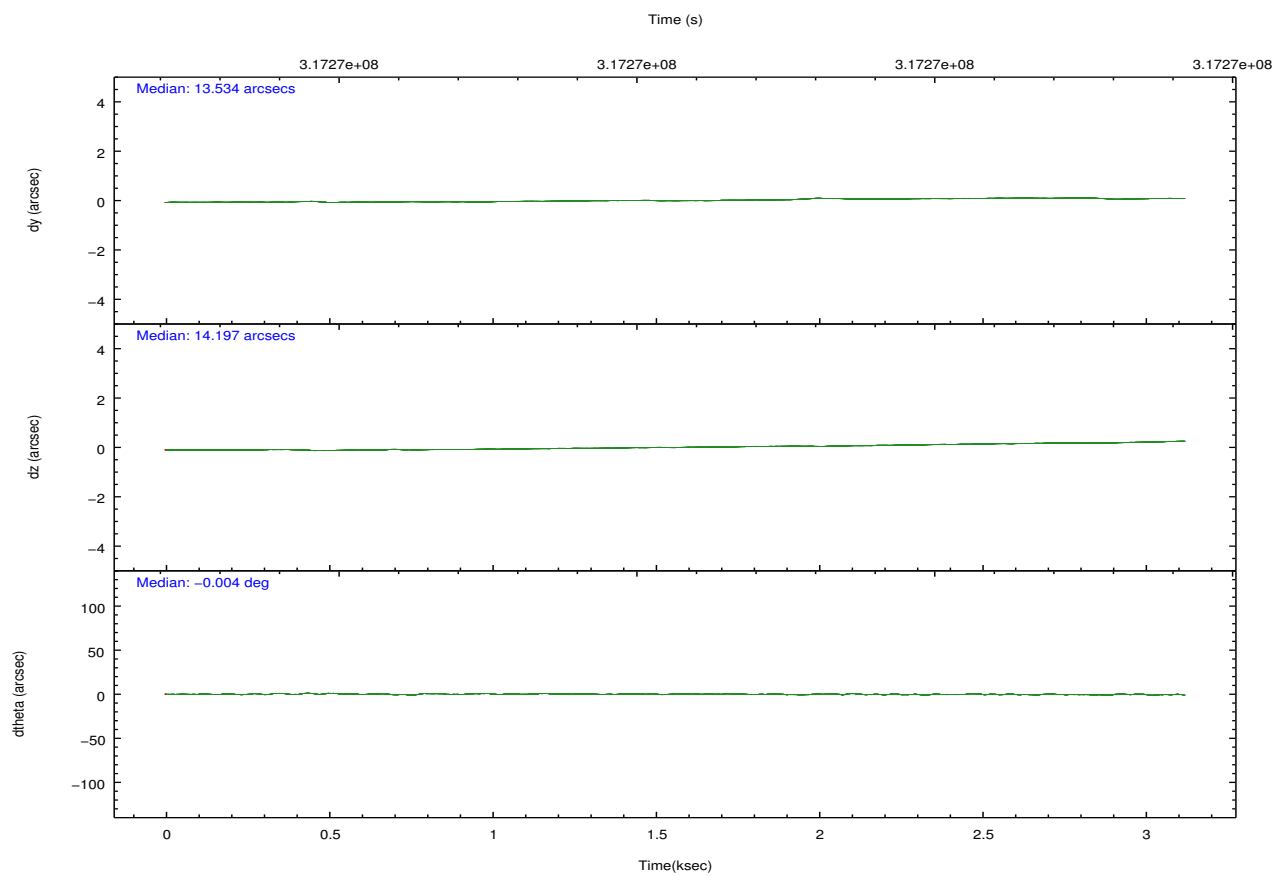
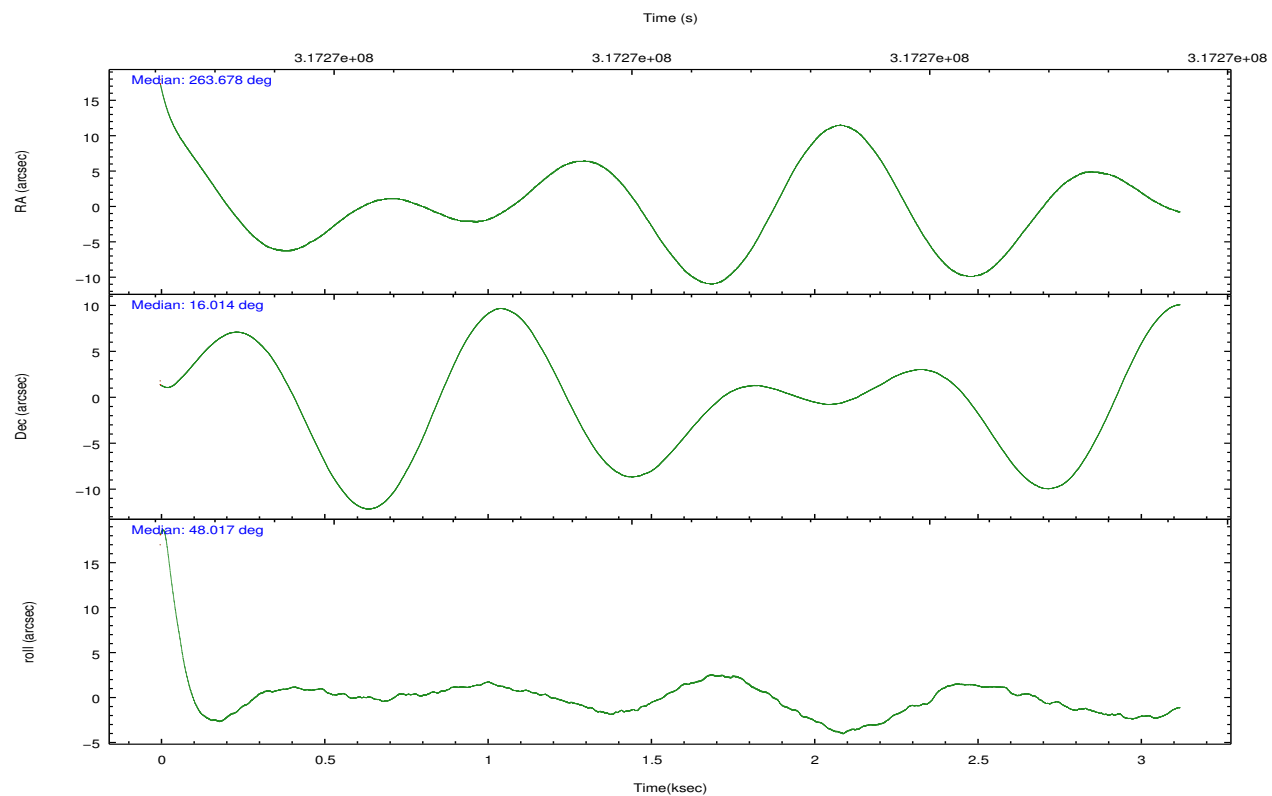
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	538	517	715	834
	4%	4%	5%	5%
grade 1 events	9	8	18	5
	0%	0%	0%	0%
grade 2 events	239	266	1333	732
	2%	2%	9%	4%
grade 3 events	192	193	654	335
	1%	1%	4%	2%
grade 4 events	175	193	650	299
	1%	1%	4%	1%
grade 5 events	460	461	1329	614
	4%	4%	9%	4%
grade 6 events	237	258	2962	1031
	2%	2%	20%	6%
grade 7 events	9141	9450	6529	11349
	83%	83%	46%	74%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	263.672461	263.6780435187654	CCD I2 on	N	N
[deg] Pointing Dec	15.986780	16.01368840541759	CCD I3 on	O1	Y
[deg] Pointing Roll	47.867738	48.02290255769041	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O3	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O2	Y
[s] Observation start time (MET)	317268694.184000	317267550.17441	CCD S5 on	N	N
Observation start date	2008-01-21T02:10:29	2008-01-21T01:52:30	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	317271694.184000	317273154.87469	On-chip summing requested	N	N
Observation end date	2008-01-21T03:00:29	2008-01-21T03:25:54	Subarray requested	CUSTOM	1/4
Read mode	TIMED	TIMED	Subarray start row	385	385
			Subarray row count	256	256
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1

## 2.3 Aspect





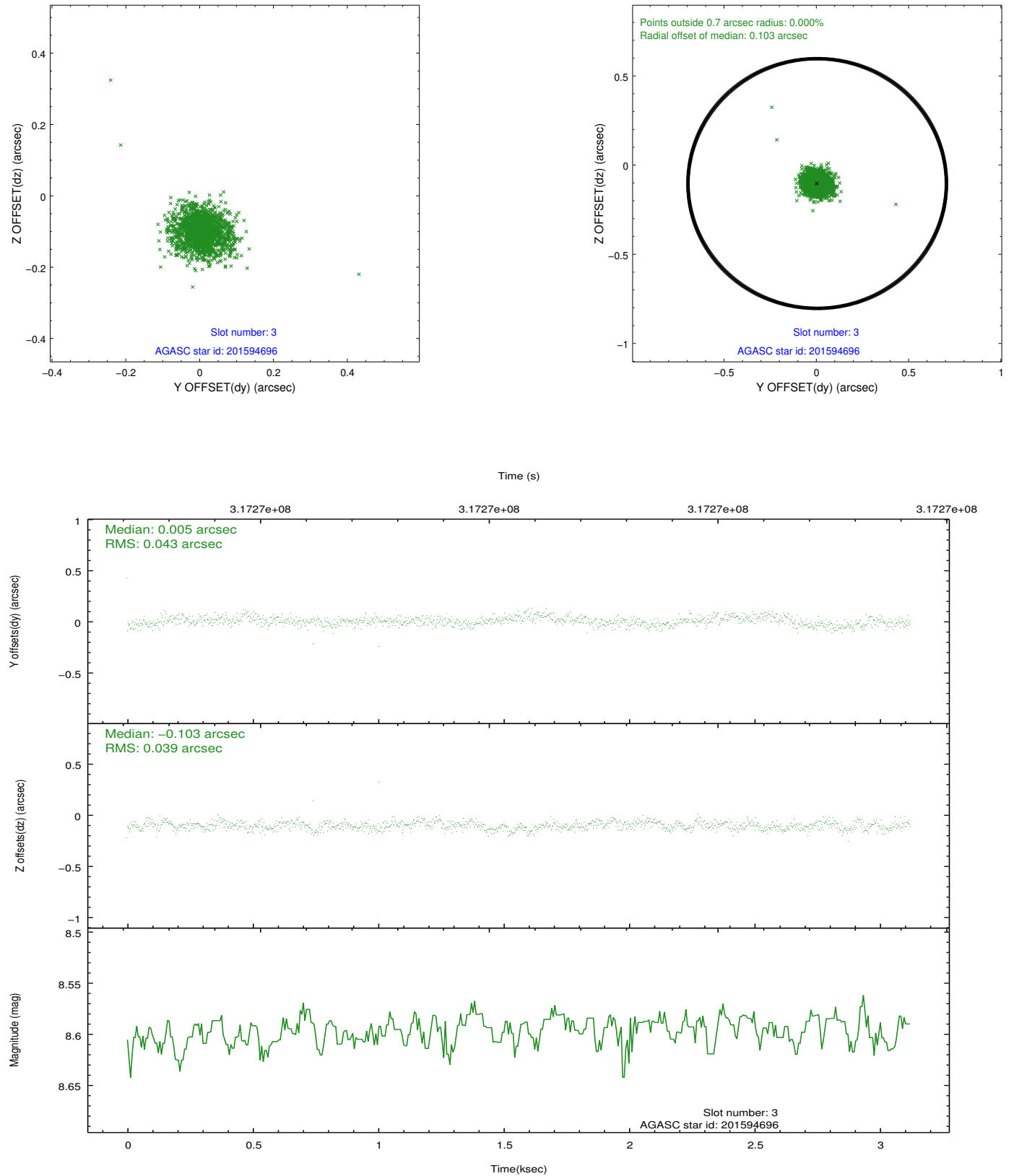
### Slot Statistics

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	762	-0.052	-0.055	0.009	0.015	0.000000	0.000000	-766.51	-1735.63
1	FID	ACIS-S-4	7.19	762	0.179	0.040	0.009	0.015	0.000000	0.000000	2146.05	170.85
2	FID	ACIS-S-5	7.22	762	-0.159	0.024	0.010	0.019	0.000000	0.000000	-1816.86	166.80
3	GUIDE	201594696	8.60	1523	0.005	-0.103	0.059	0.095	263.766451	16.375914	1256.33	699.18
4	GUIDE	201600520	7.18	1524	0.116	-0.042	0.051	0.082	262.822141	15.852025	-2330.40	1862.76
5	GUIDE	201593864	8.52	1524	-0.006	-0.261	0.071	0.115	262.943685	16.182081	-1167.63	2344.19
6	GUIDE	203296056	9.29	1522	0.010	0.340	0.105	0.172	264.080272	15.408198	-594.16	-2443.89
7	GUIDE	203305704	8.07	1522	-0.124	0.065	0.073	0.115	264.149904	16.397993	2204.71	-229.62

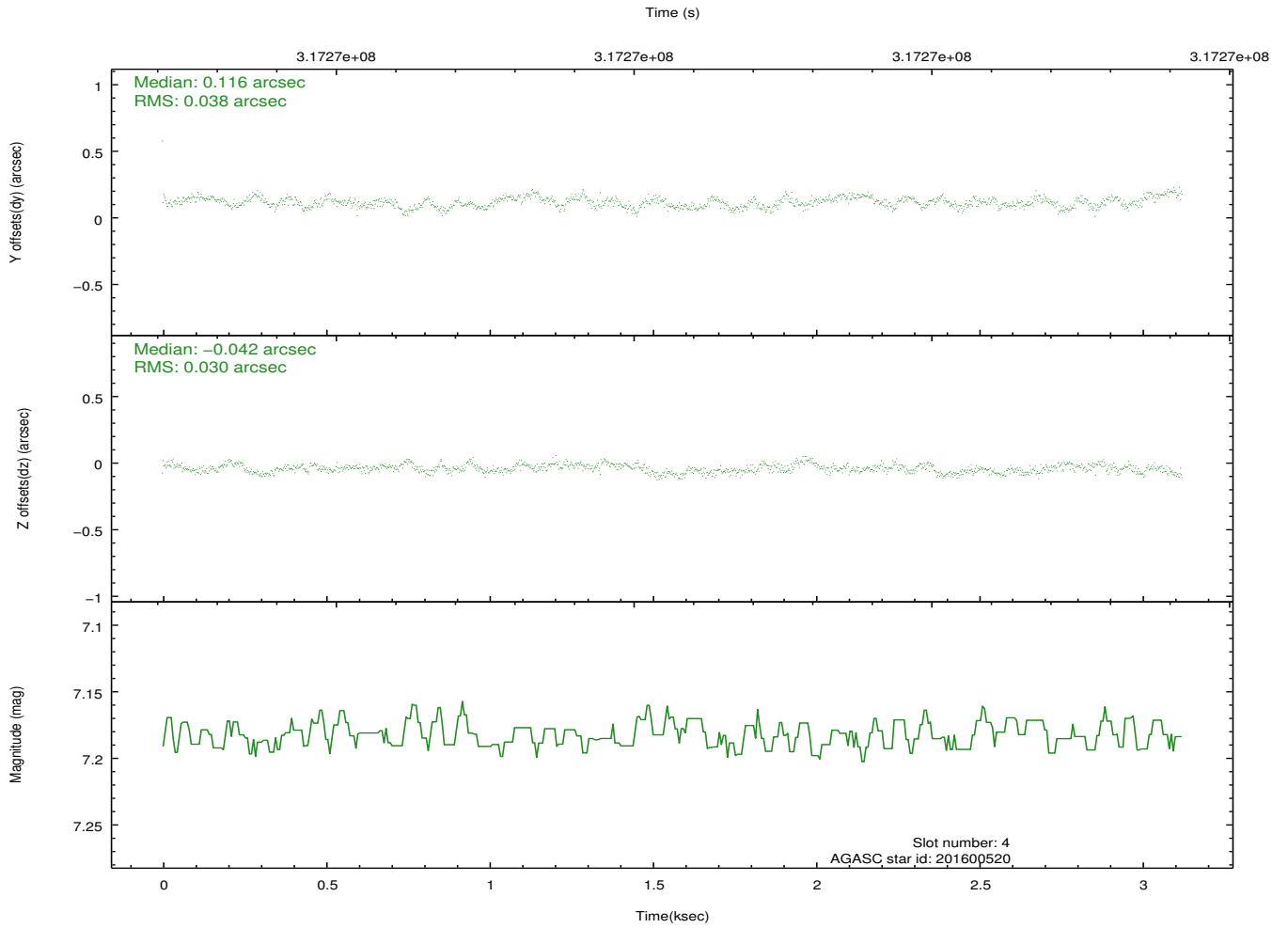
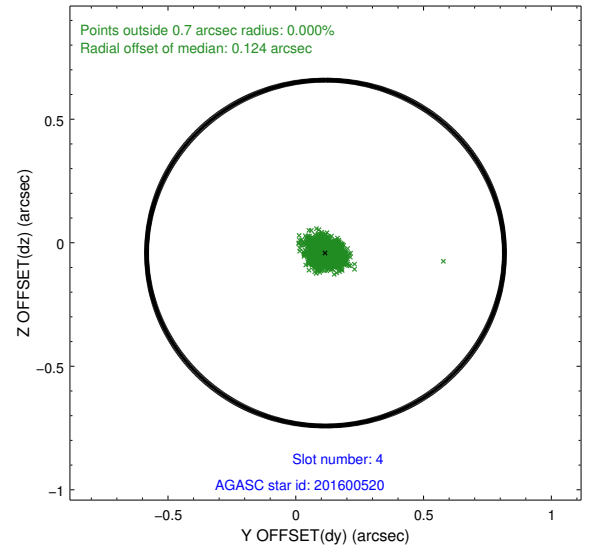
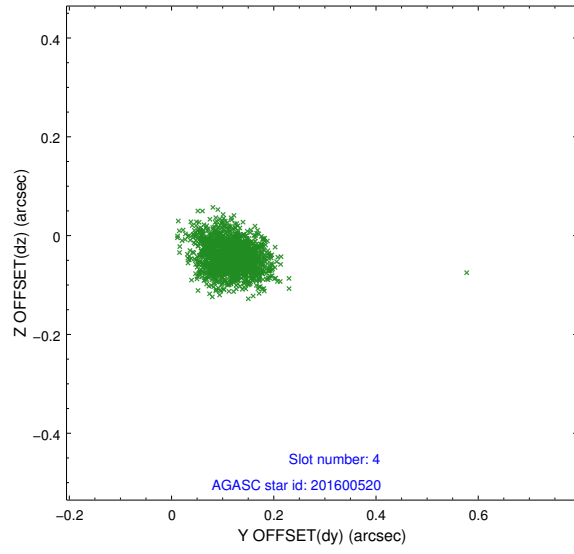


## 2.4 Star Slots

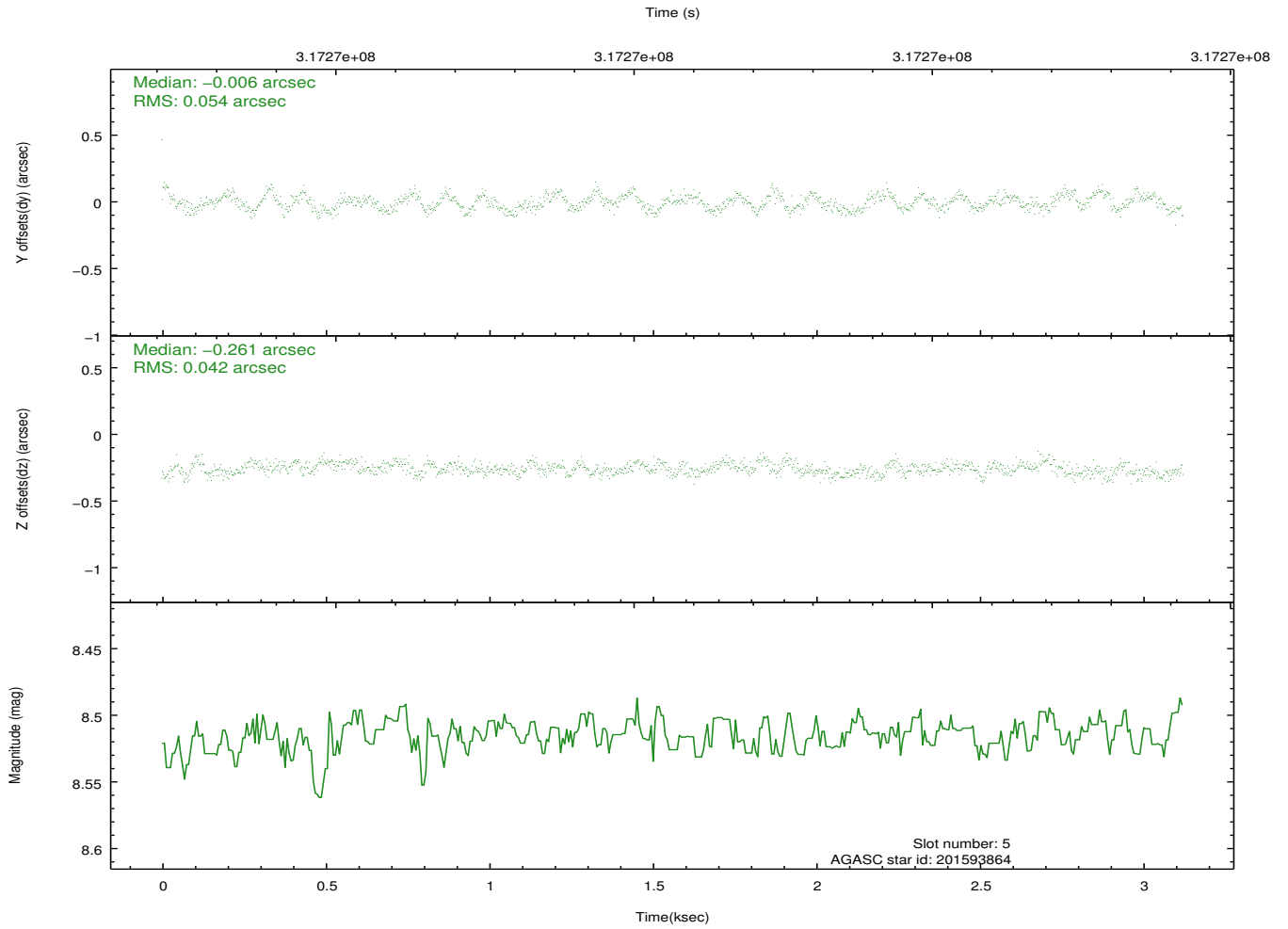
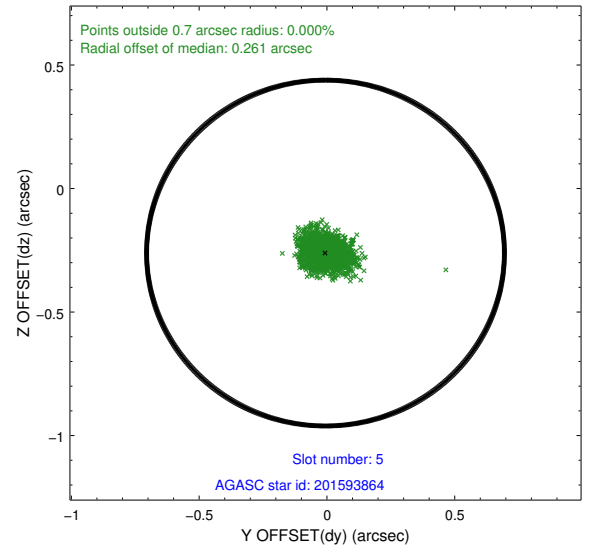
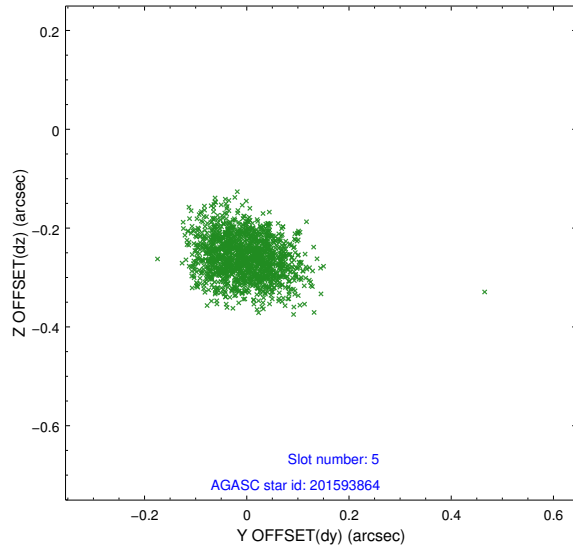
### 2.4.1 Slot 3



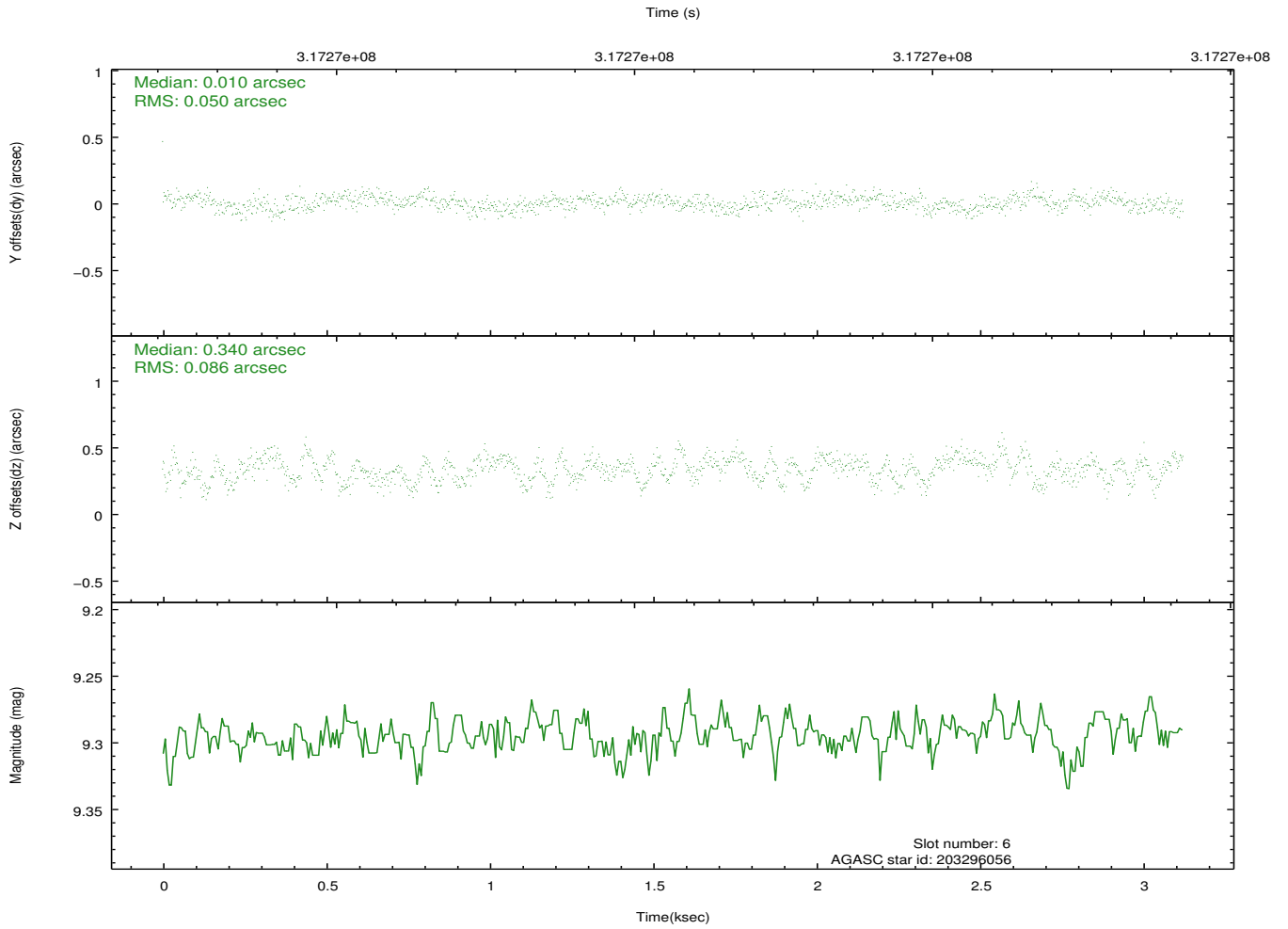
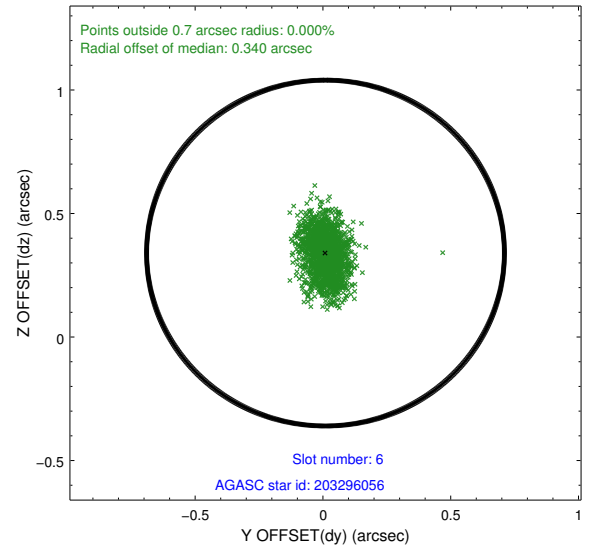
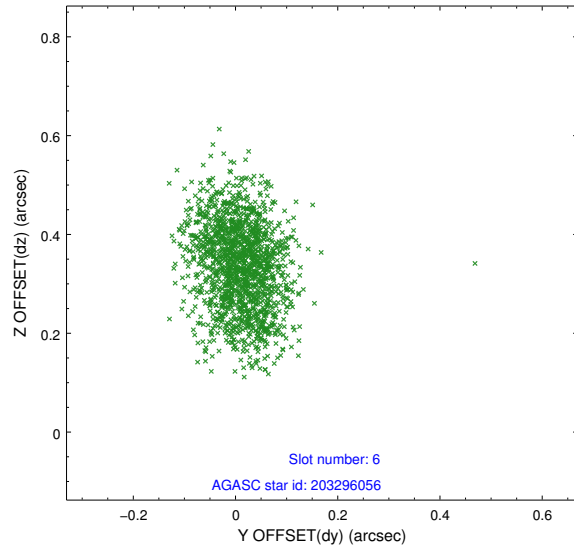
## 2.4.2 Slot 4



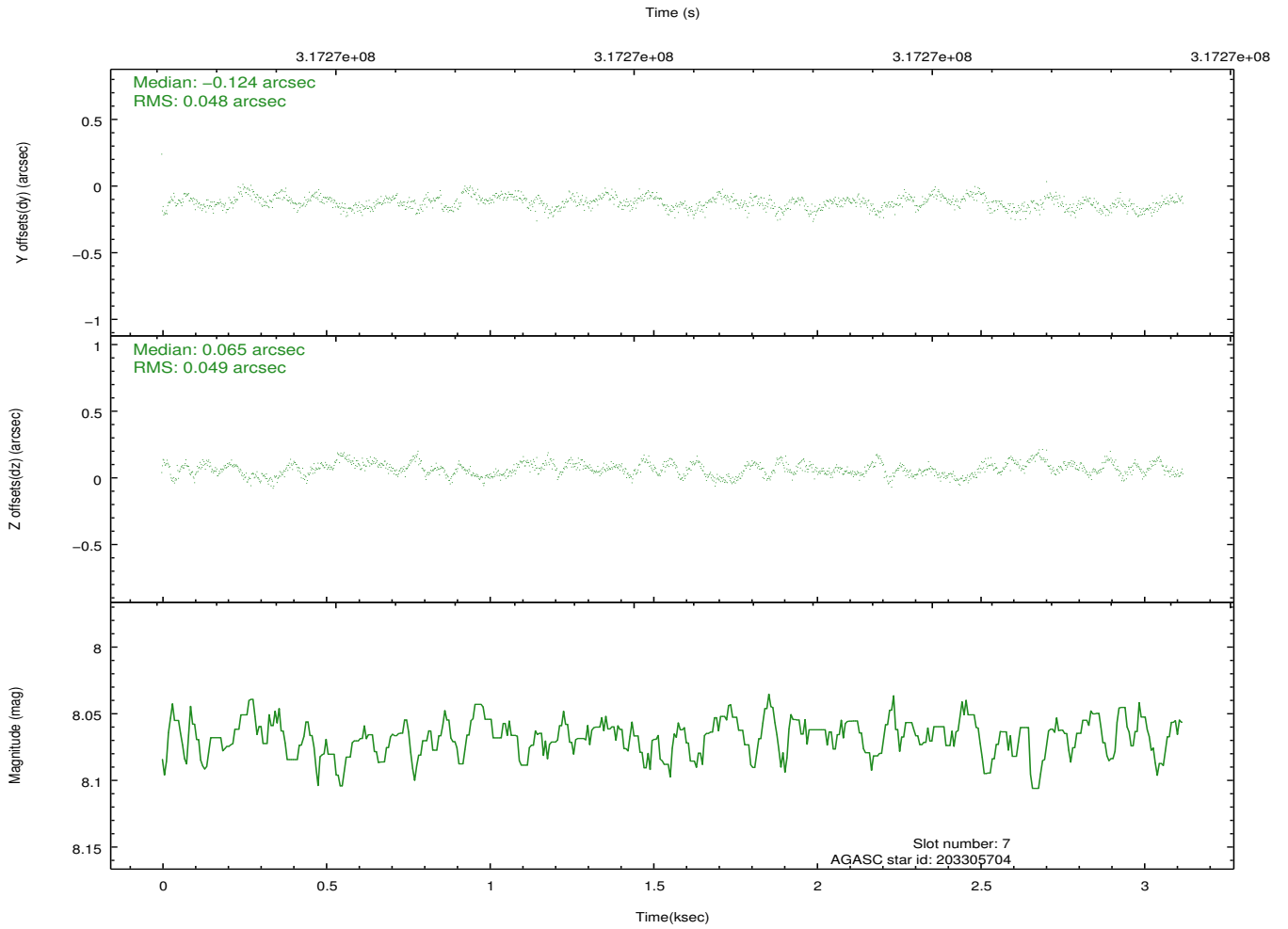
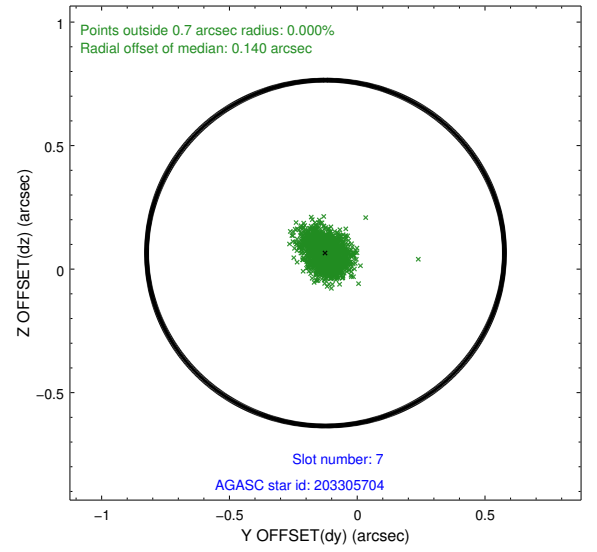
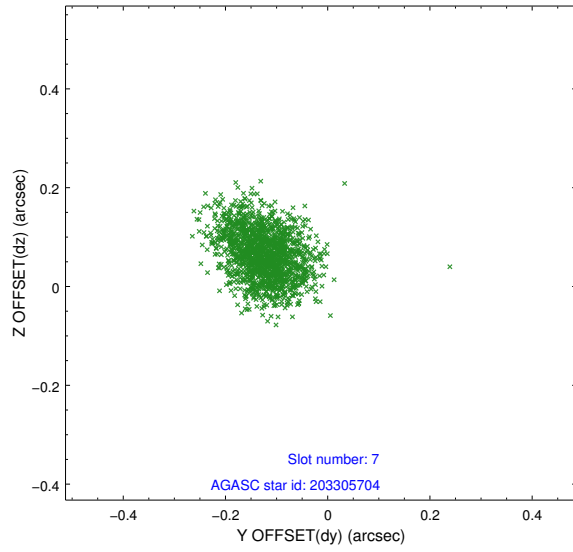
### 2.4.3 Slot 5



## 2.4.4 Slot 6

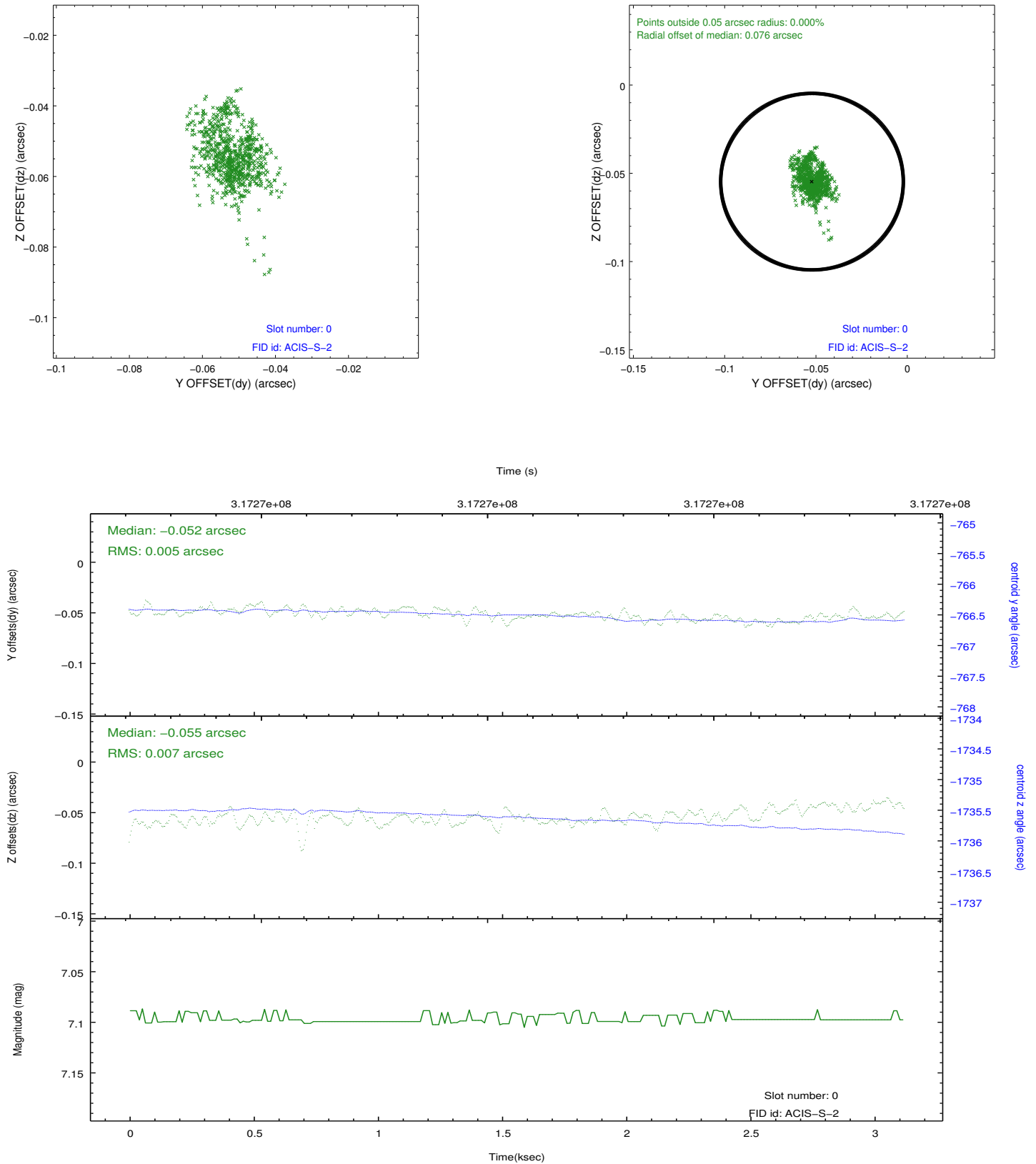


## 2.4.5 Slot 7

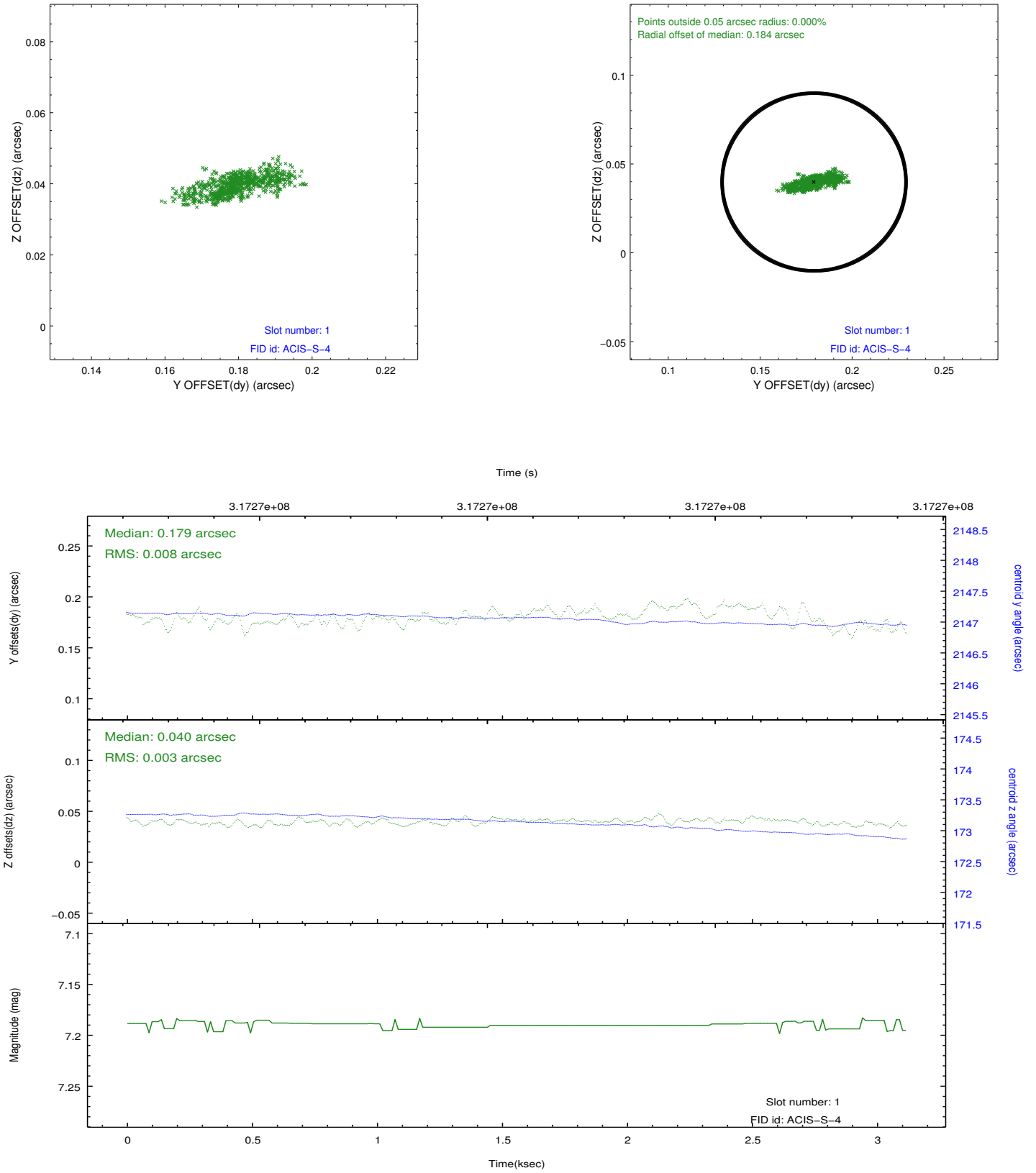


## 2.5 FID Slots

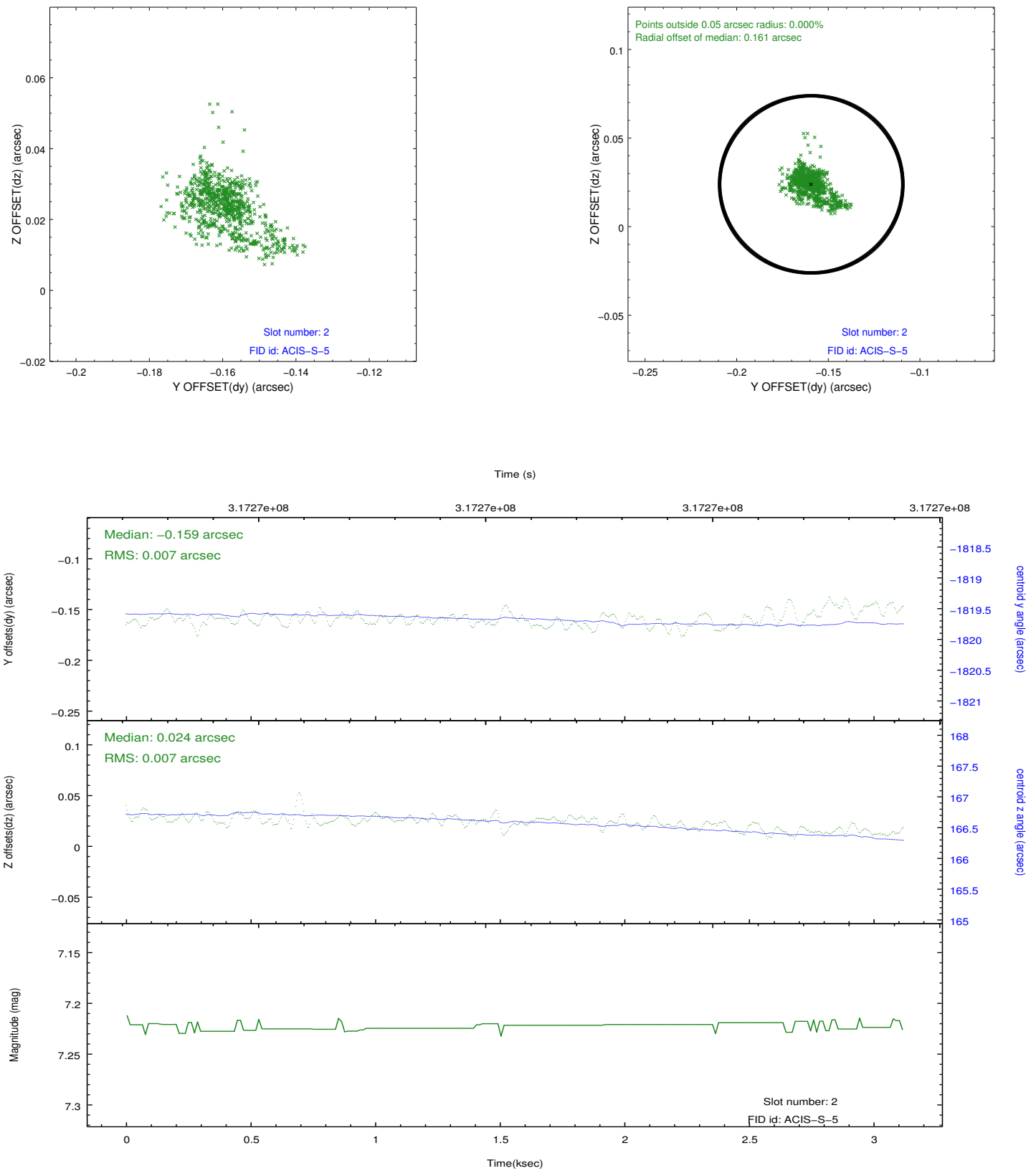
### 2.5.1 Slot 0



## 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)	2012.05.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.119

### **A.2 Comments**