

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3109 - L2 Version 3  
Chandra X-Ray Center

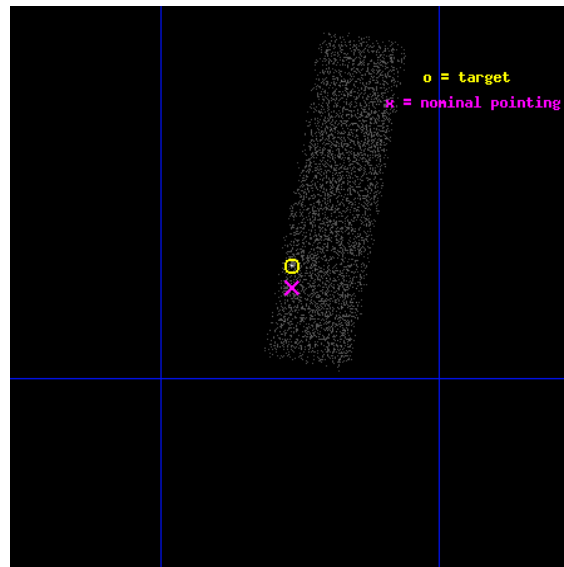
L2 Processing Date : Oct 1 2012

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# 1 Front

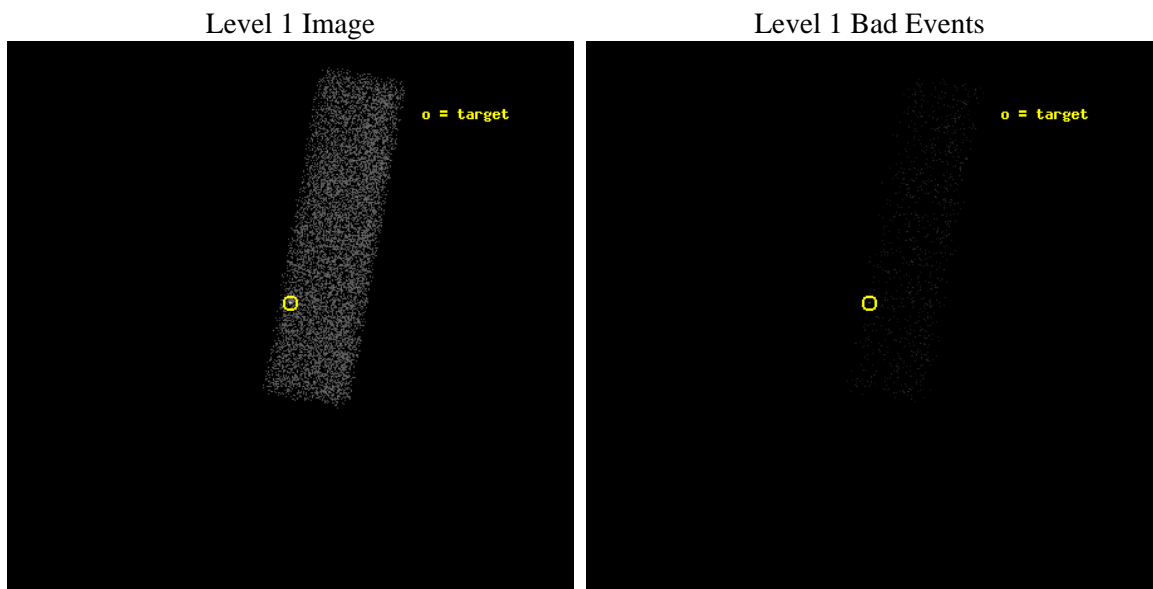
seq_num	700548	Sequence number
obs_id	3109	Observation id
title	A COMPLETE SURVEY FOR X-RAY EMISSION FROM RADIO JETS	Proposal titl
observer	Dr. Herman Marshall	Principal investigator
object	0229+131	Source name
dtycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	37.94125	Observer's specified target RA [deg]
dec_targ	13.381861	Observer's specified target Dec [deg]
ra_nom	37.941242494171	Nominal RA [deg]
dec_nom	13.37219995522	Nominal Dec [deg]
roll_nom	280.15661159832	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5687.9999788254	Sum of GTIs [s]
livetime	5410.4441917868	Livetime [s]
ontime7	5687.9999788254	Sum of GTIs [s]
l2events	5609	Number of level 2 events



## 2 OBI

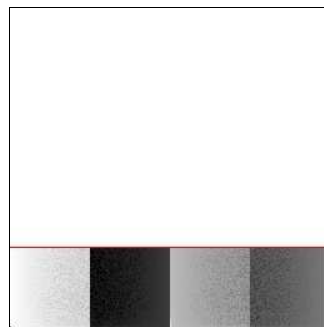
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5687.9999788254	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime7	5687.9999788254	Sum of GTIs [s]
date	2012-10-01T05:49:19	Date and time of file creation	l1events	12245	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	12245
rejected events	6499
rejected %	53%

	<b>ccd 7</b>
grade 0 events	595
	4%
grade 1 events	14
	0%
grade 2 events	1175
	9%
grade 3 events	661
	5%
grade 4 events	624
	5%
grade 5 events	1005
	8%
grade 6 events	2816
	22%
grade 7 events	5355
	43%

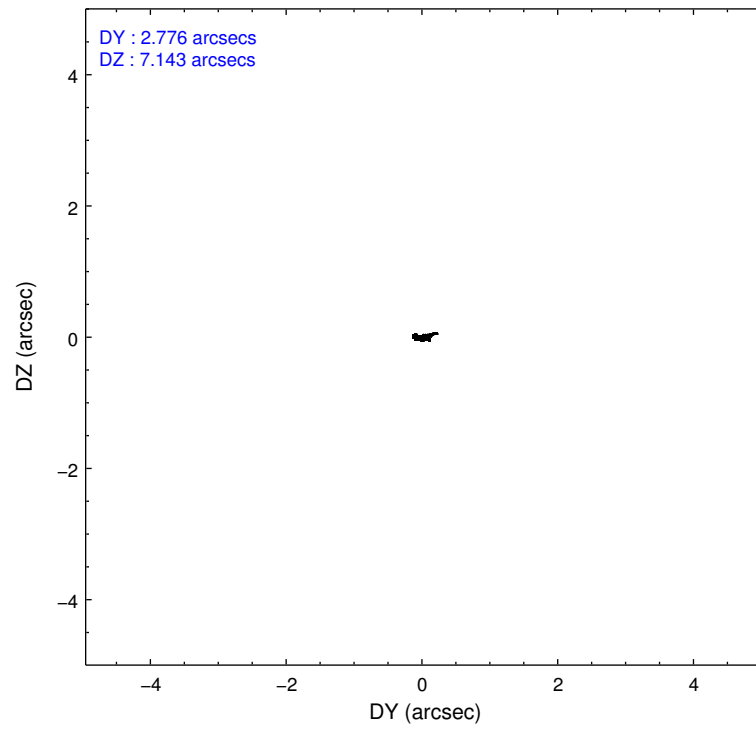
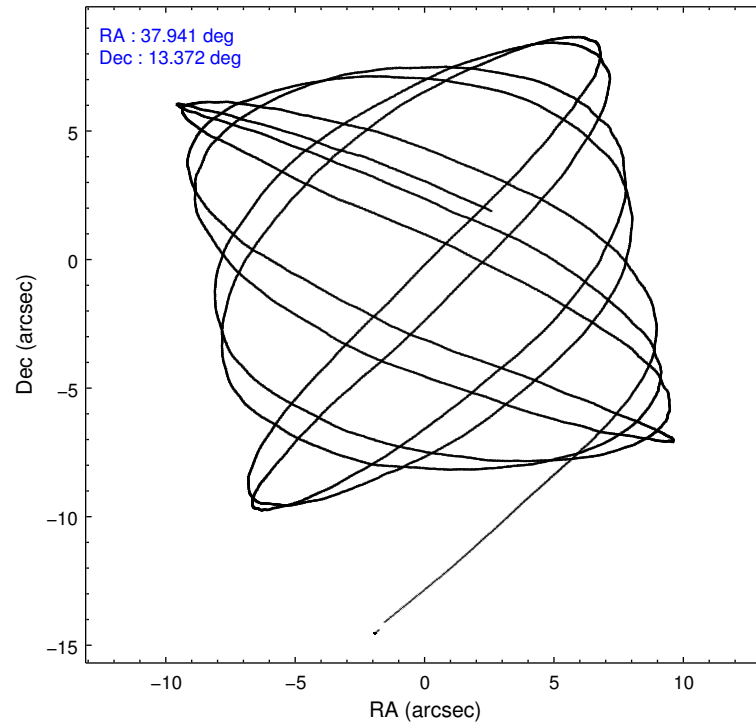


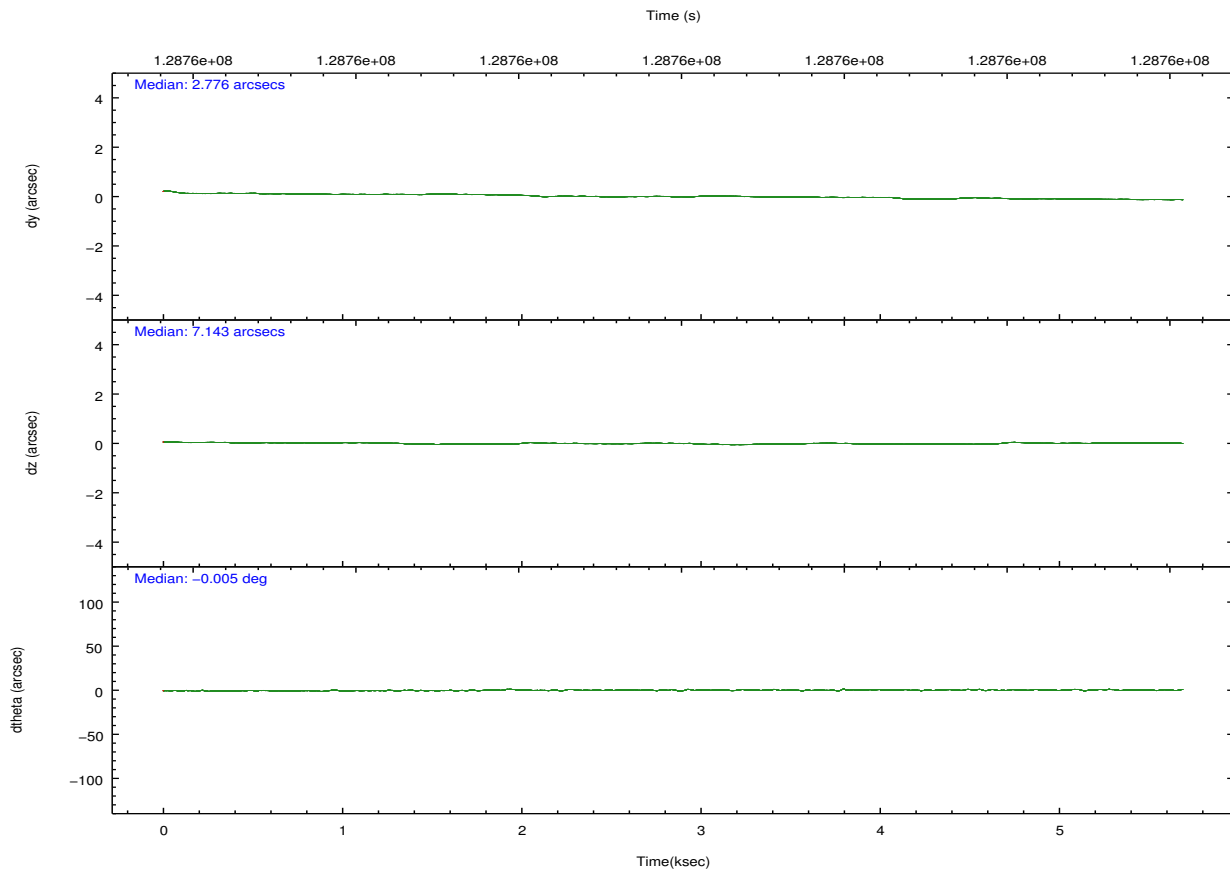
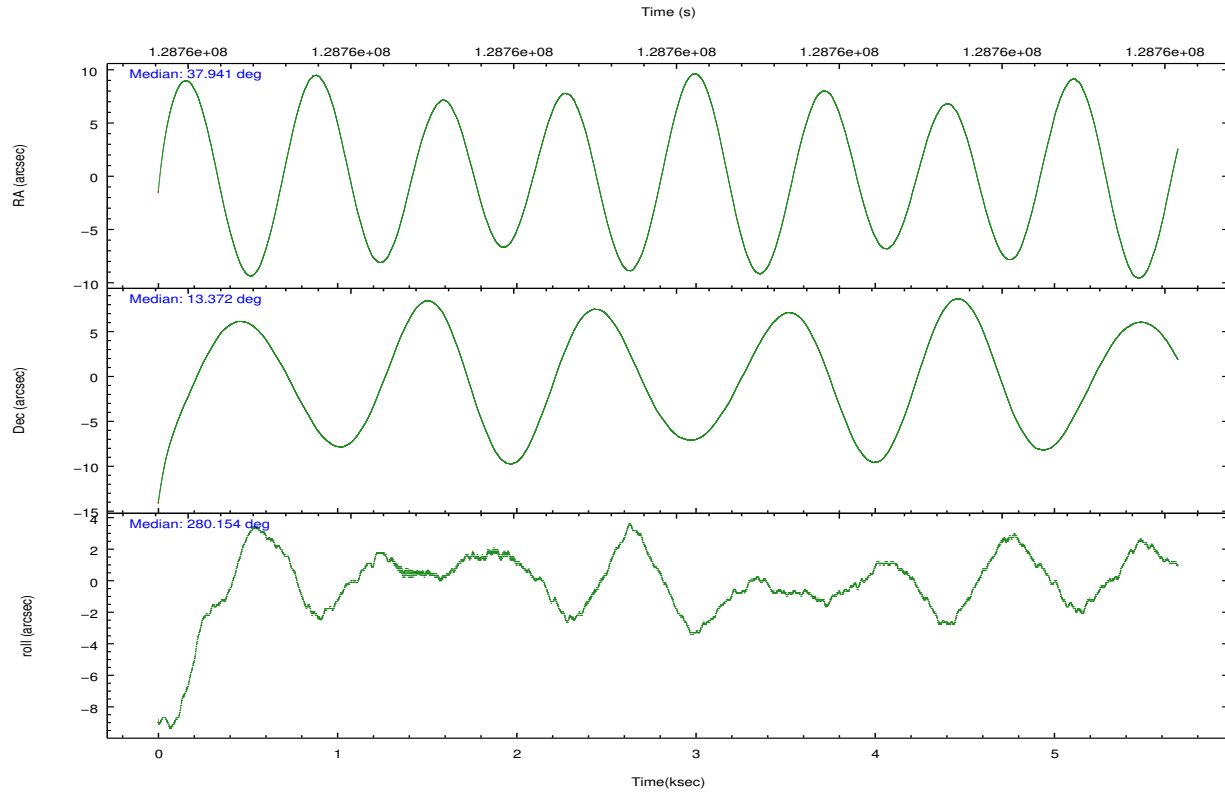
## 2.2 Compared Parameters

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	37.922919	37.94124249417116
[deg] Pointing Dec	13.392759	13.37219995522039
[deg] Pointing Roll	280.004245	280.1566115983183
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-178.632523	-178.6370735452349
[mm] SIM translation stage offset	-11.5	-11.49544903777291
[s] Observation start time (MET)	128755792.184000	128754580.1134
Observation start date	2002-01-30T05:28:48	2002-01-30T05:09:40
[s] Observation end time (MET)	128760792.184000	128761197.51367
Observation end date	2002-01-30T06:52:08	2002-01-30T06:59:57
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	1/4
Subarray start row	1	1
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.8

## 2.3 Aspect



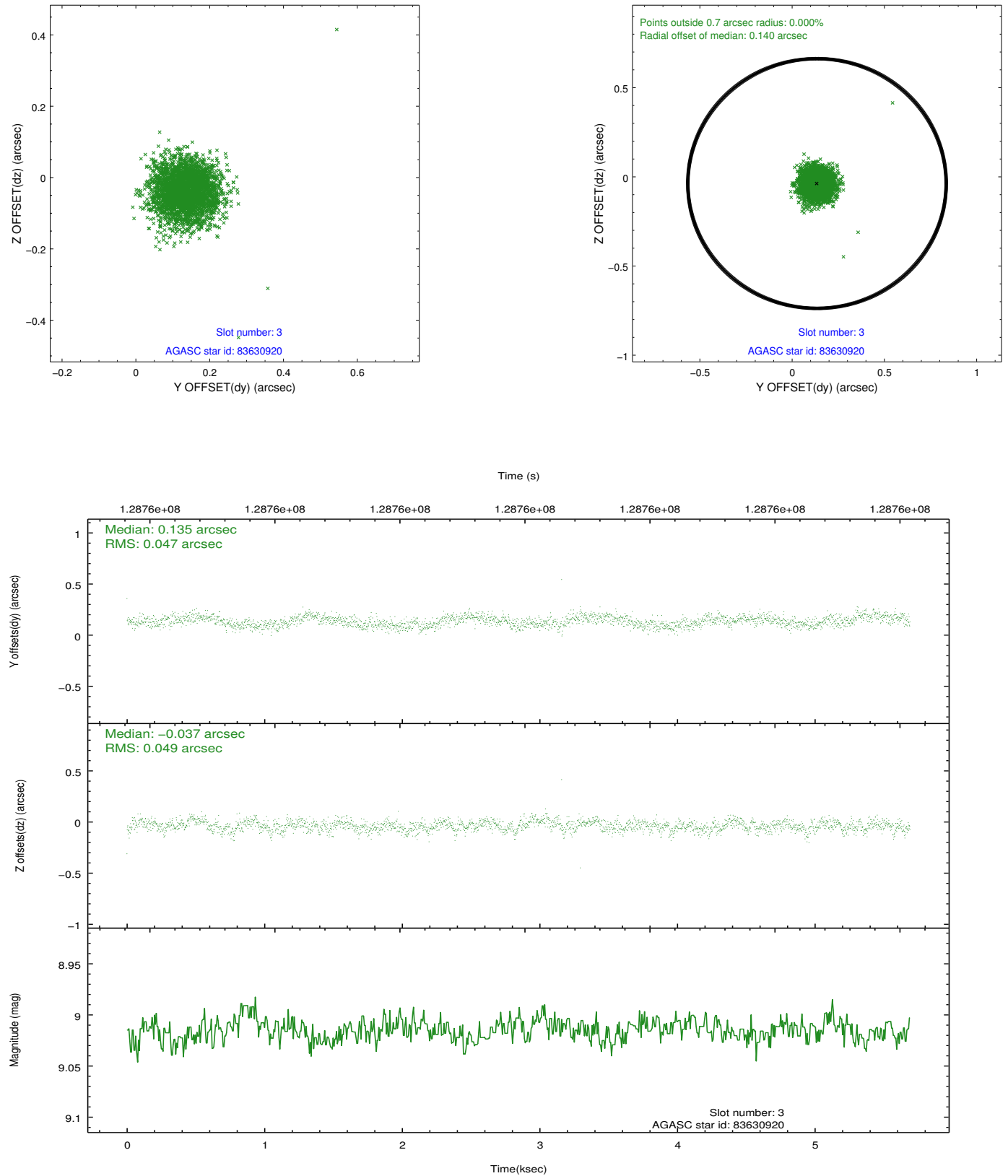


### Slot Statistics

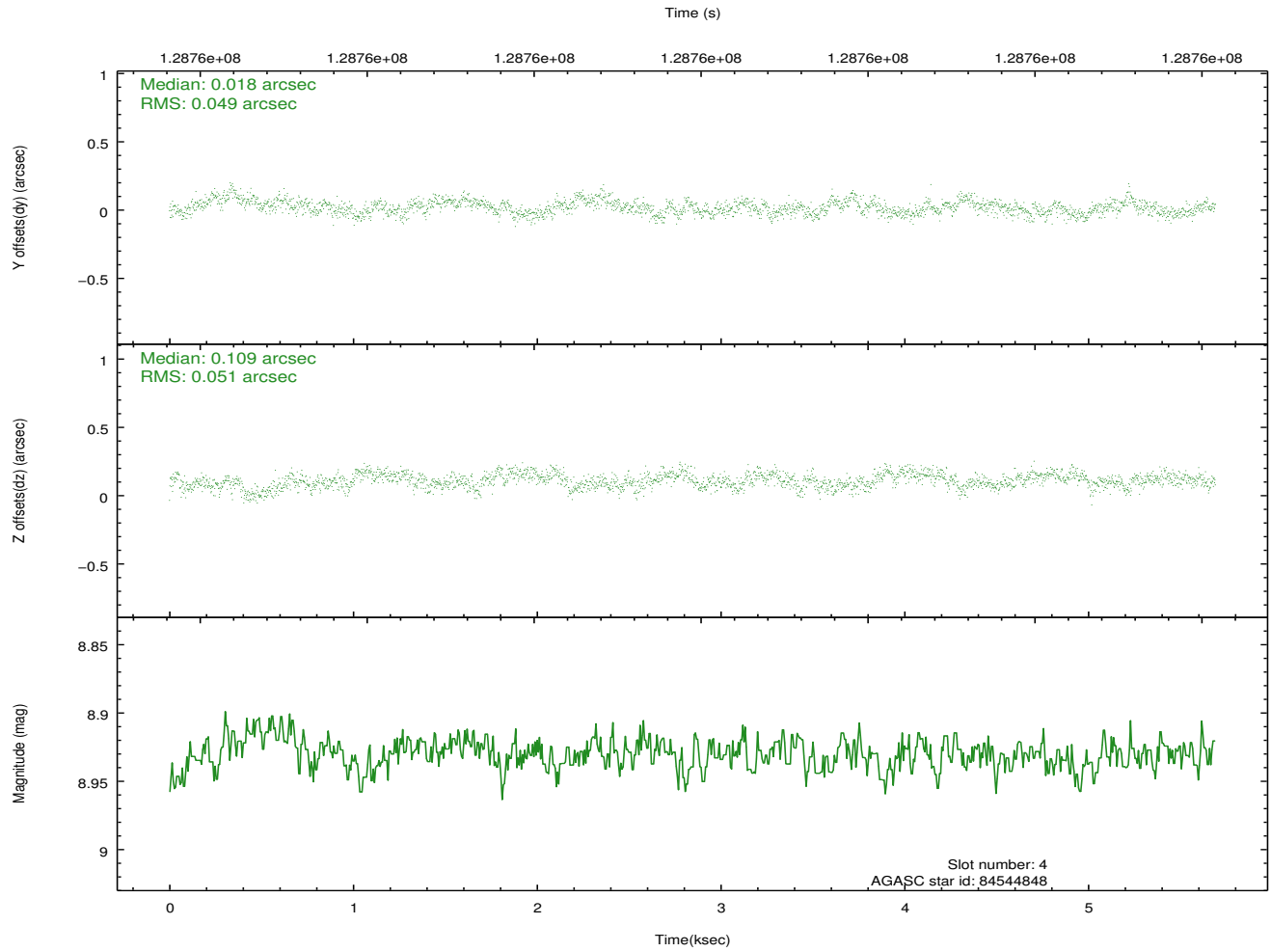
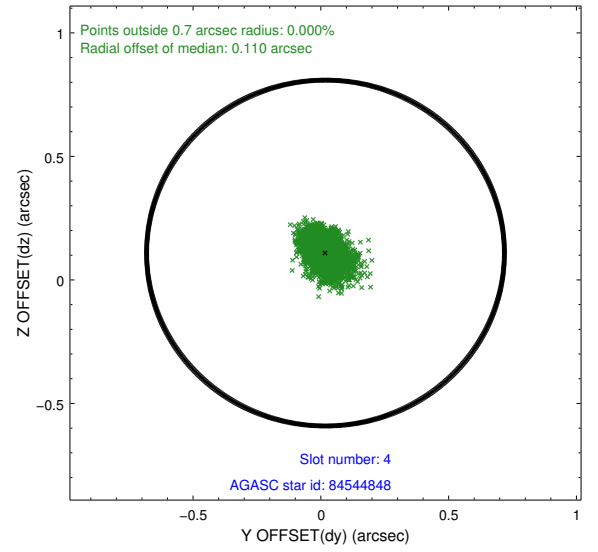
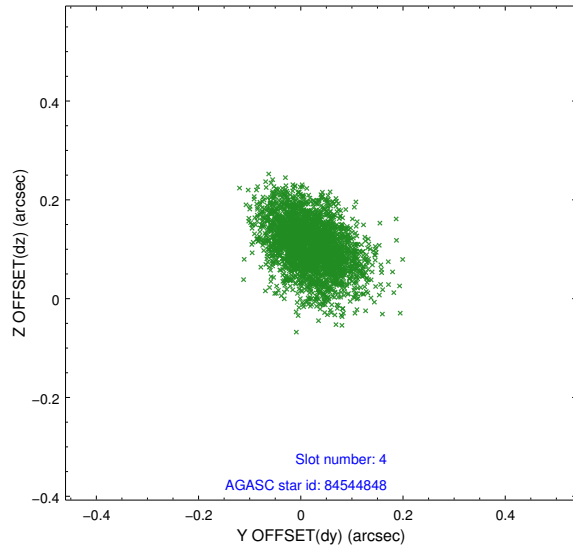
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.08	1389	-0.068	-0.289	0.007	0.011	0.000000	0.000000	-754.61	-1965.25
1	FID	ACIS-S-4	7.17	1389	-0.010	0.110	0.006	0.010	0.000000	0.000000	2158.23	-57.61
2	FID	ACIS-S-5	7.23	1389	0.048	0.187	0.007	0.011	0.000000	0.000000	-1806.01	-62.71
3	GUIDE	83630920	9.02	2776	0.135	-0.037	0.072	0.115	37.699157	13.429672	-266.39	-748.69
4	GUIDE	84544848	8.93	2777	0.018	0.109	0.075	0.122	38.317166	13.594574	-476.44	1484.43
5	GUIDE	84550016	9.36	2776	0.191	0.165	0.115	0.170	38.335552	12.847570	2183.84	1085.95
6	GUIDE	83624968	8.83	2777	-0.280	-0.267	0.086	0.137	37.143249	13.876501	-2191.41	-2380.44
7	GUIDE	83630888	9.03	2776	-0.064	0.038	0.068	0.110	37.731591	13.959681	-2126.51	-305.08

## 2.4 Star Slots

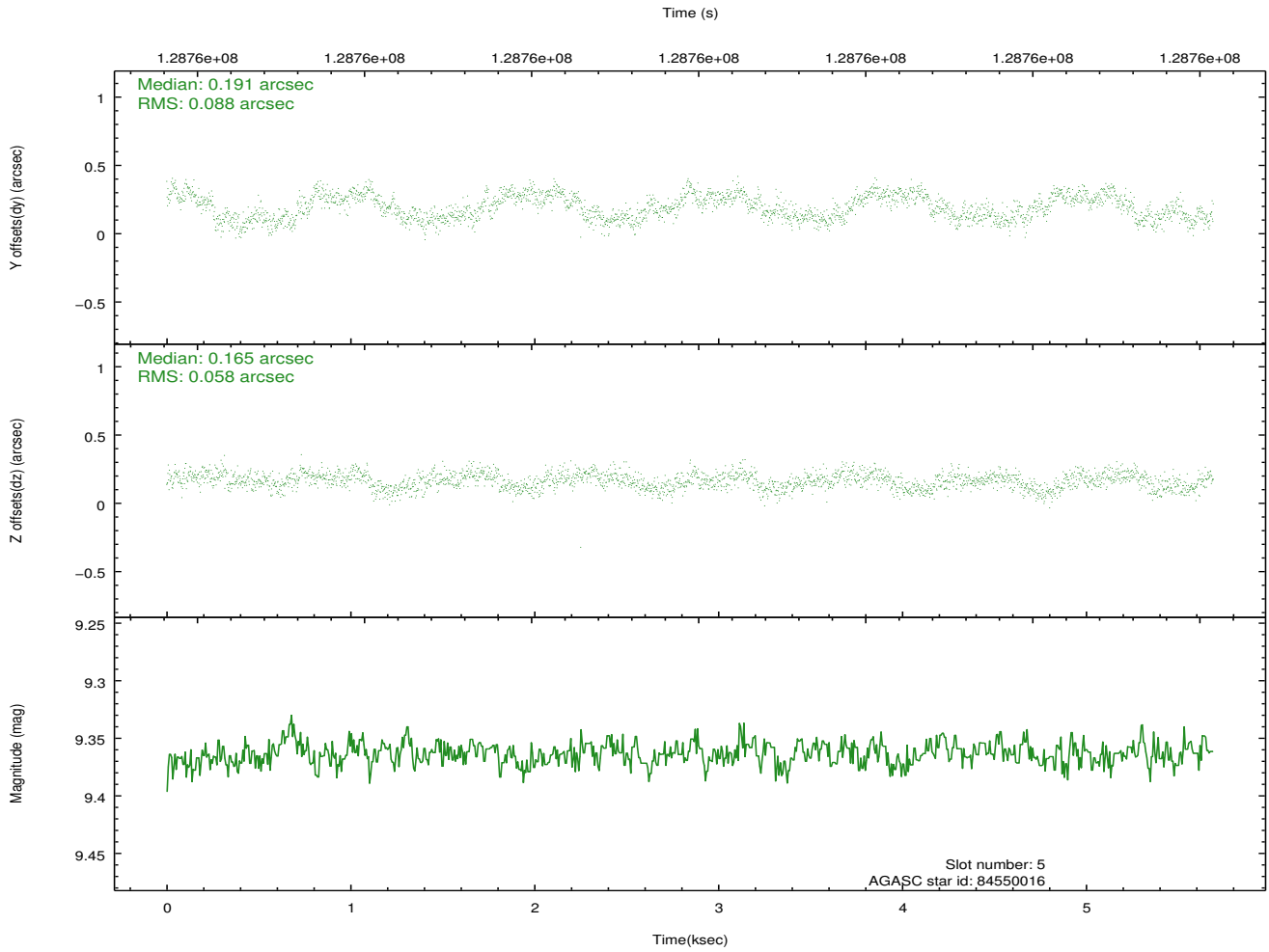
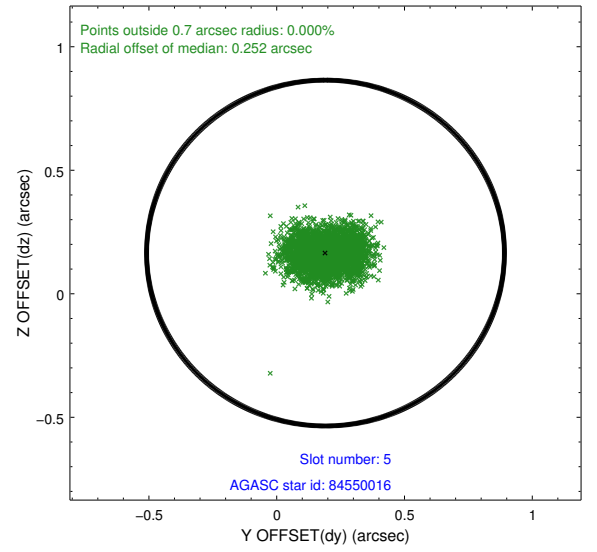
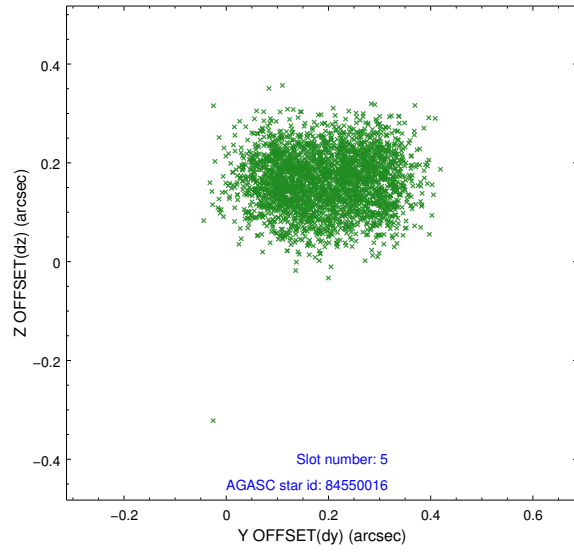
### 2.4.1 Slot 3



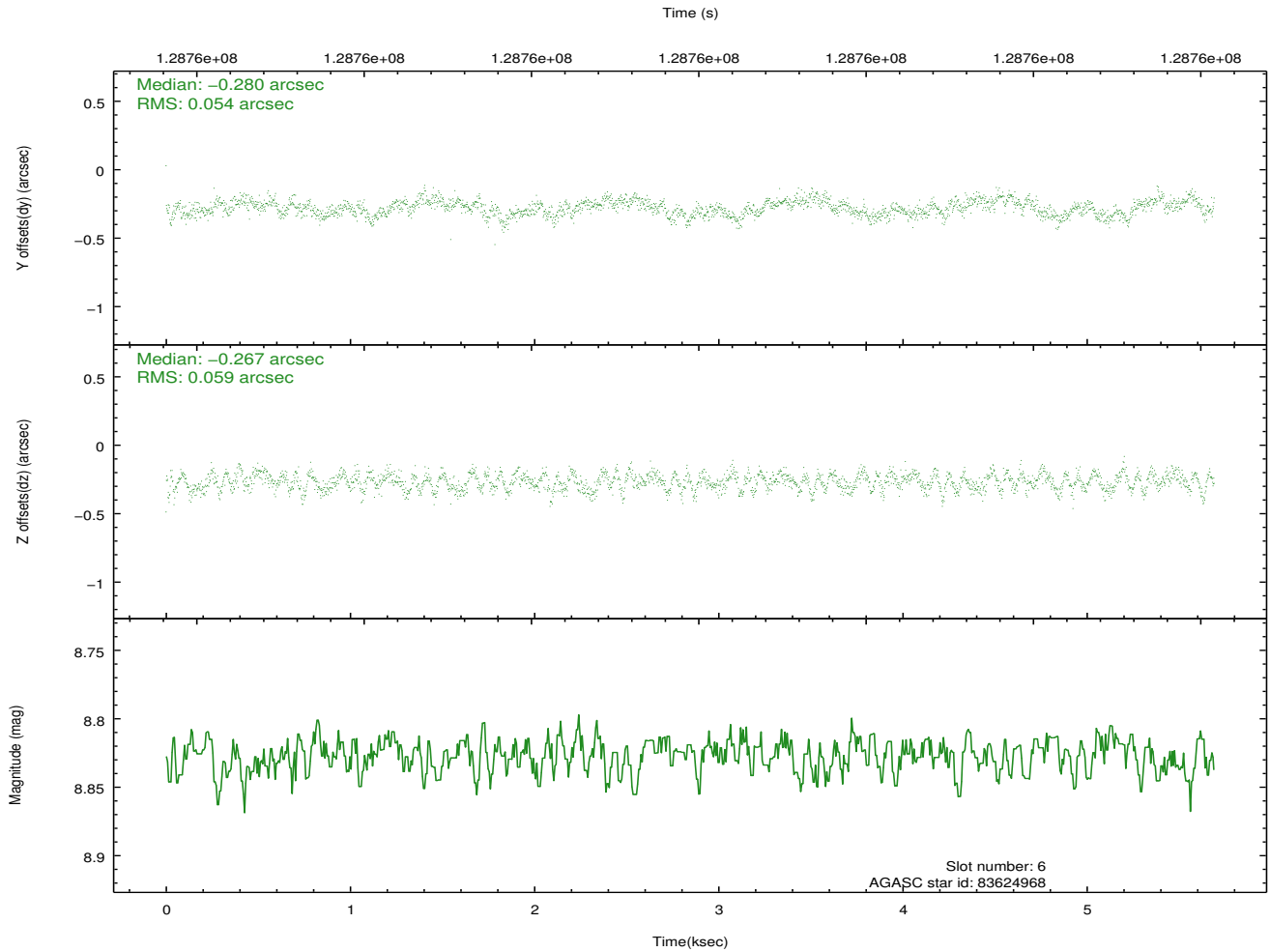
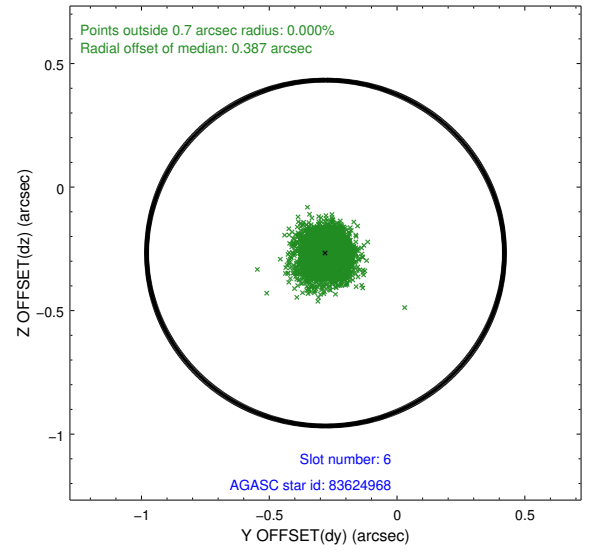
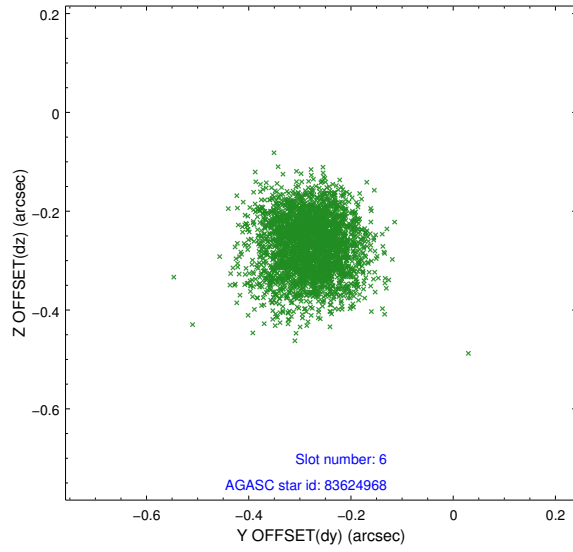
## 2.4.2 Slot 4



### 2.4.3 Slot 5

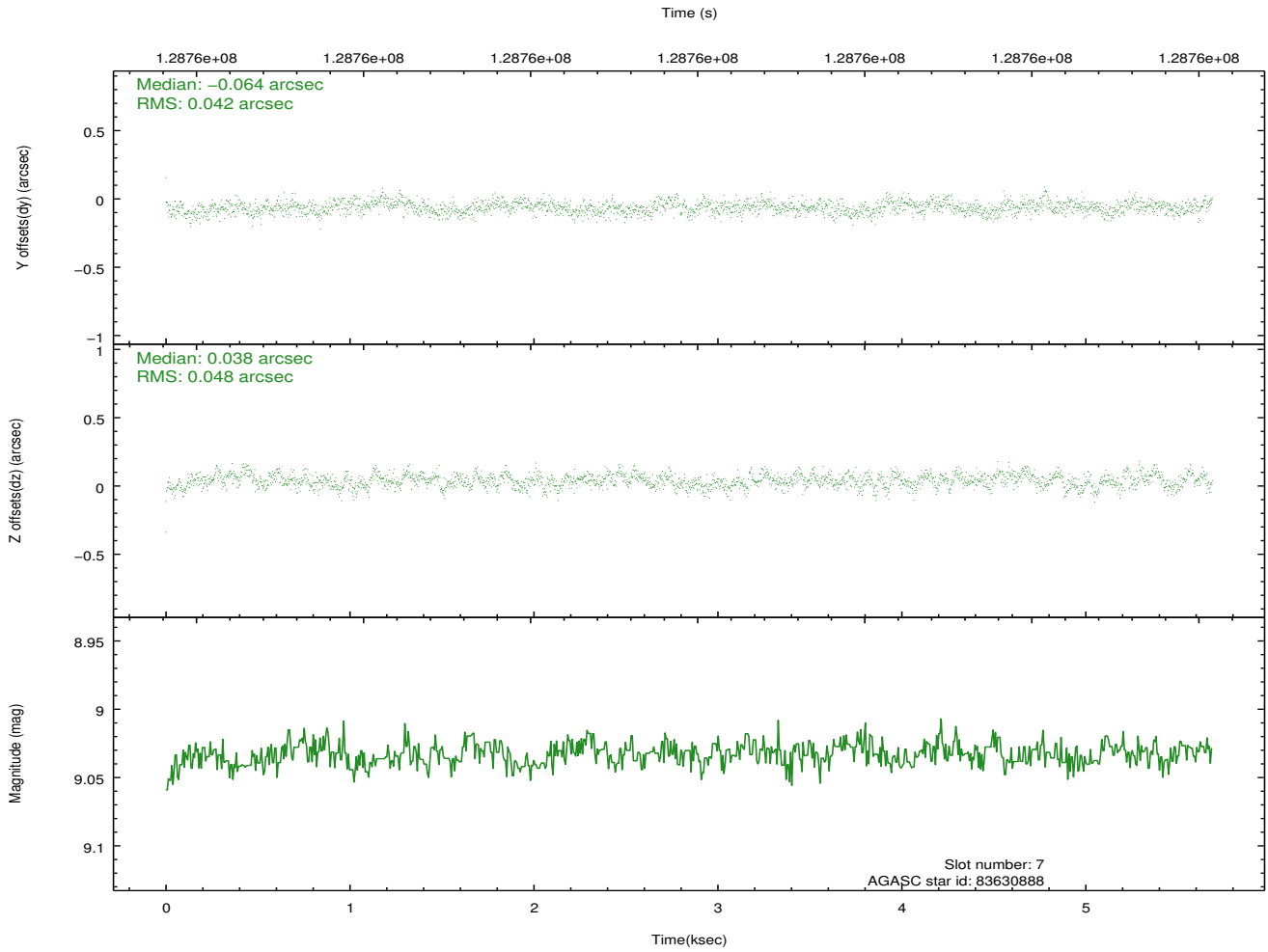
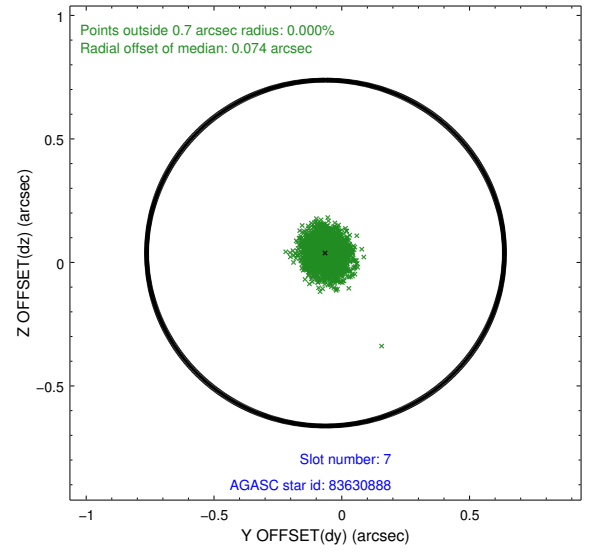
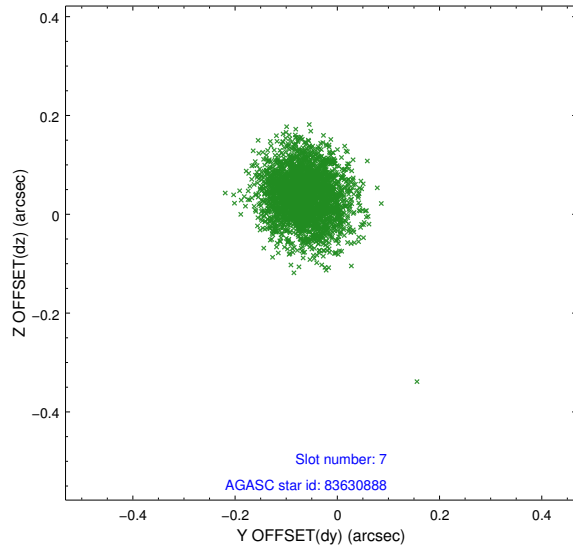


## 2.4.4 Slot 6



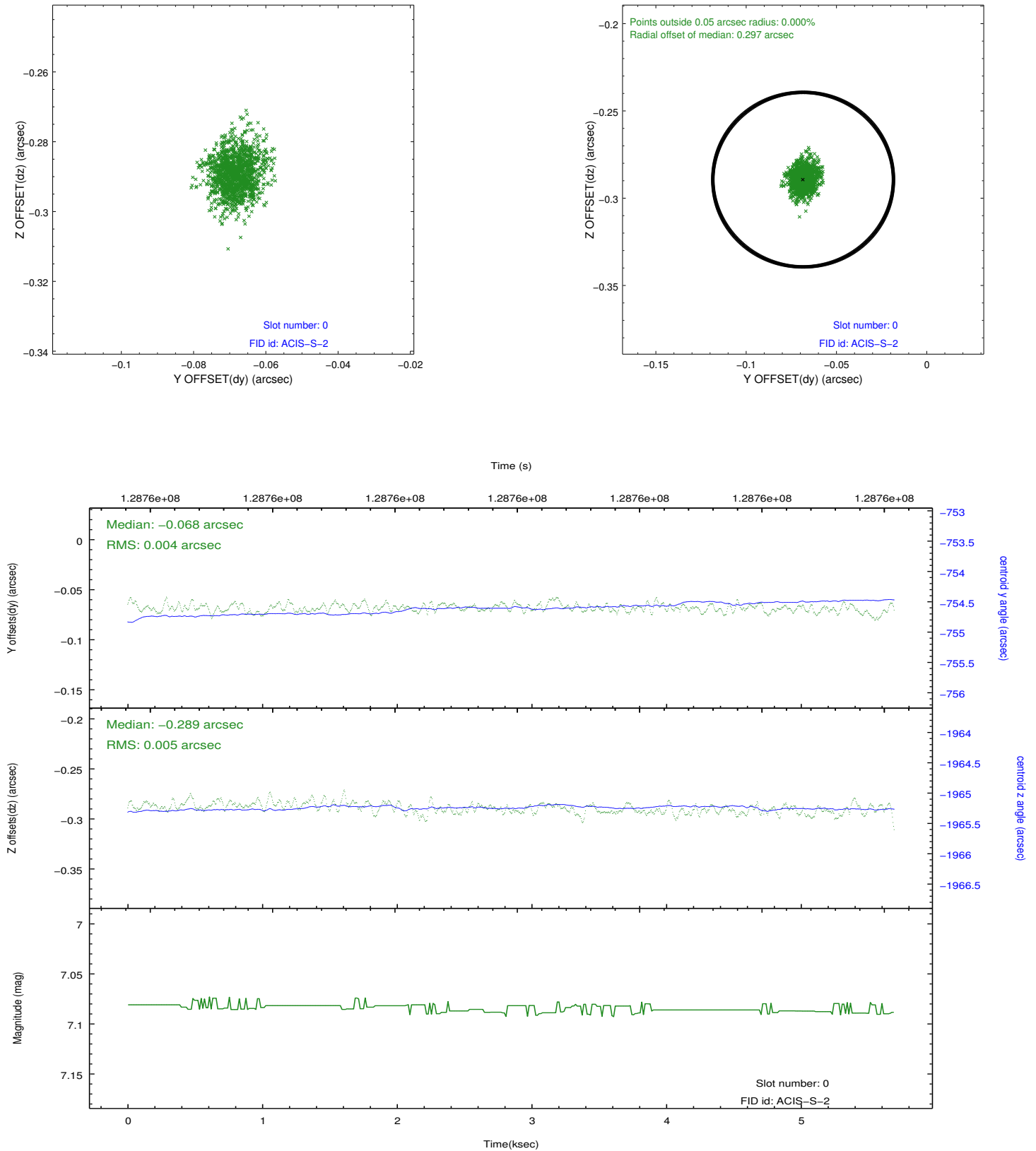


## 2.4.5 Slot 7

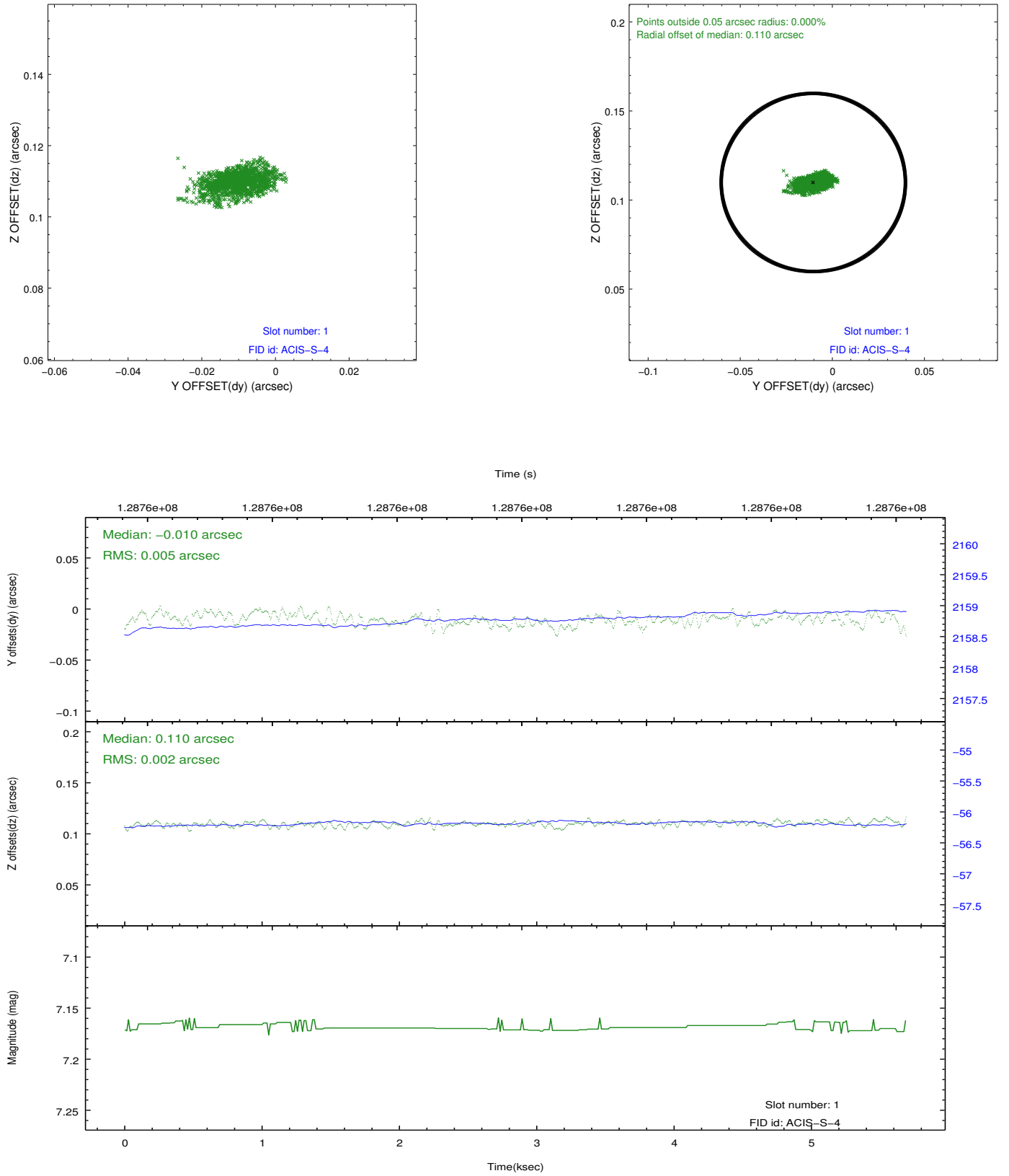


## 2.5 FID Slots

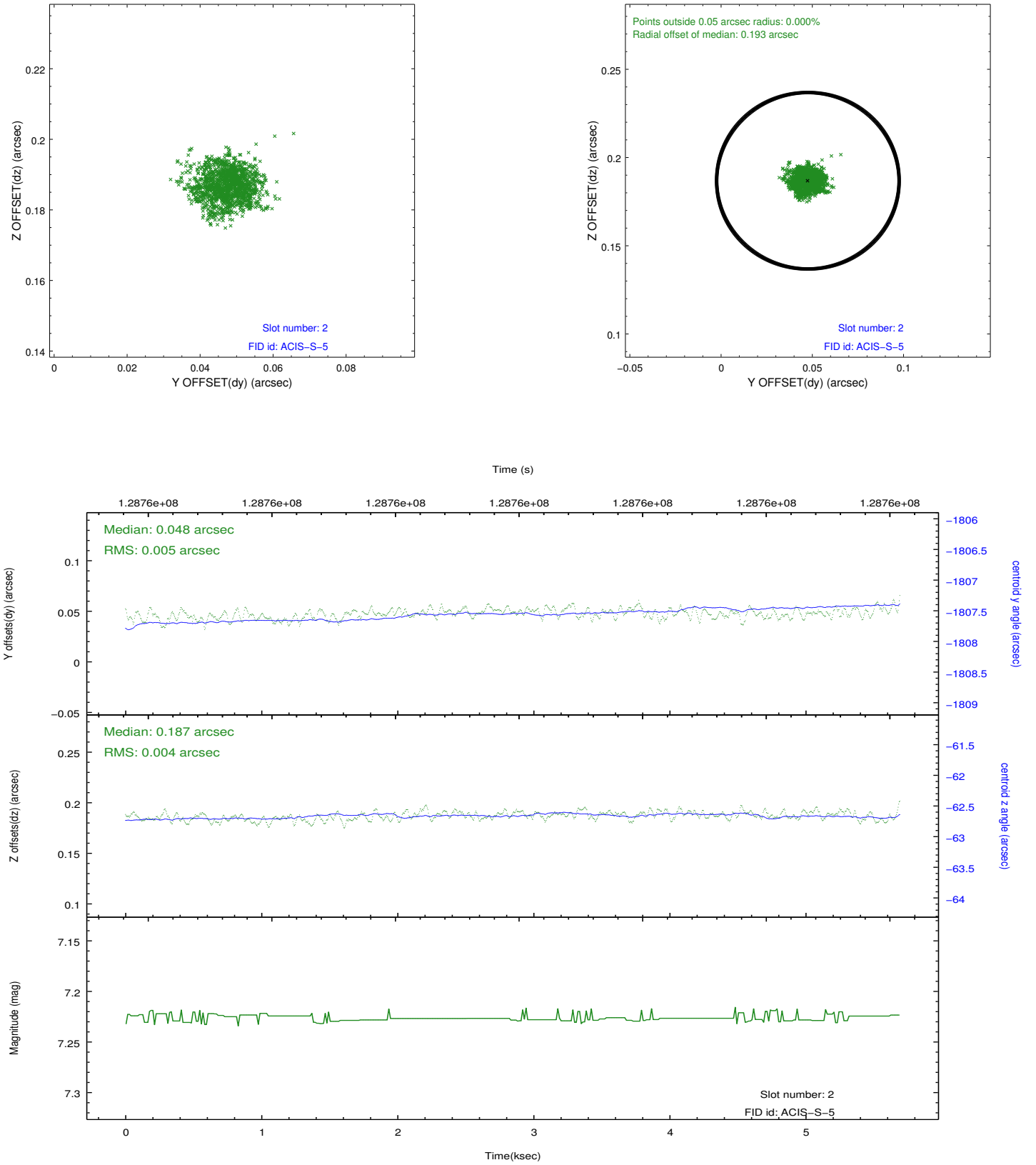
### 2.5.1 Slot 0



## 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)	2012.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.687

### A.2 Comments

Roll preference not met, just outside the 210+/- 70 degree range.