

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2139 - L2 Version 3  
Chandra X-Ray Center

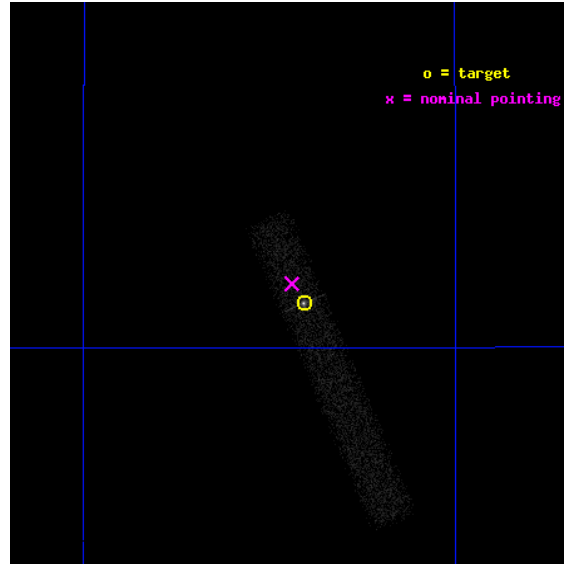
L2 Processing Date : Sep 4 2012

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# 1 Front

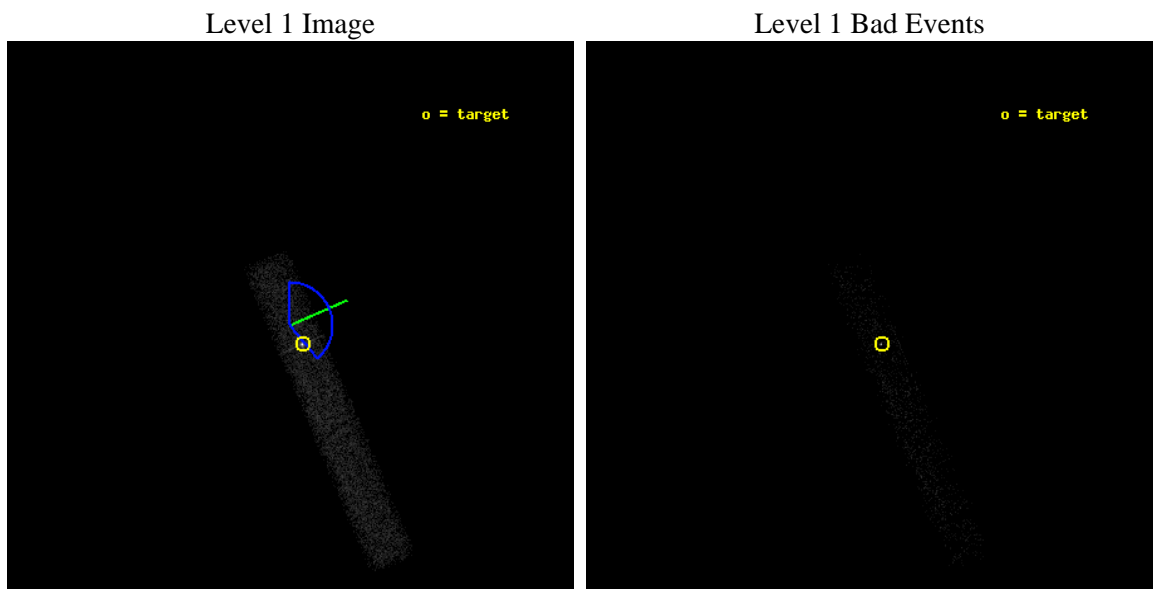
seq_num	700329	Sequence number
obs_id	2139	Observation id
title	AN UNBIASED SURVEY OF X-RAY AND OPTICAL EMISSION FROM EXTENDED RADIO JETS IN AGN	Proposal title
observer	Dr. Rita Sambruna	Principal investigator
object	1150+497	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	178.351667	Observer's specified target RA [deg]
dec_targ	49.519167	Observer's specified target Dec [deg]
ra_nom	178.35991472139	Nominal RA [deg]
dec_nom	49.527388093276	Nominal Dec [deg]
roll_nom	66.956449590391	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10247.200152695	Sum of GTIs [s]
livetime	9293.6696469211	Livetime [s]
ontime7	10247.200152695	Sum of GTIs [s]
l2events	14375	Number of level 2 events



## 2 OBI

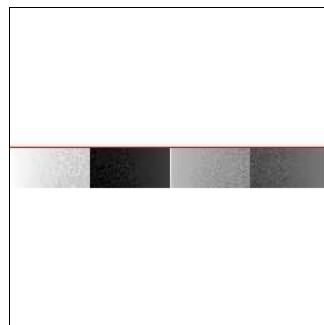
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	10247.200152695	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime7	10247.200152695	Sum of GTIs [s]
date	2012-09-04T06:11:36	Date and time of file creation	l1events	23127	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	23127
rejected events	8541
rejected %	36%

	<b>ccd 7</b>
grade 0 events	4112
	17%
grade 1 events	85
	0%
grade 2 events	3538
	15%
grade 3 events	1936
	8%
grade 4 events	1897
	8%
grade 5 events	1322
	5%
grade 6 events	5021
	21%
grade 7 events	5216
	22%

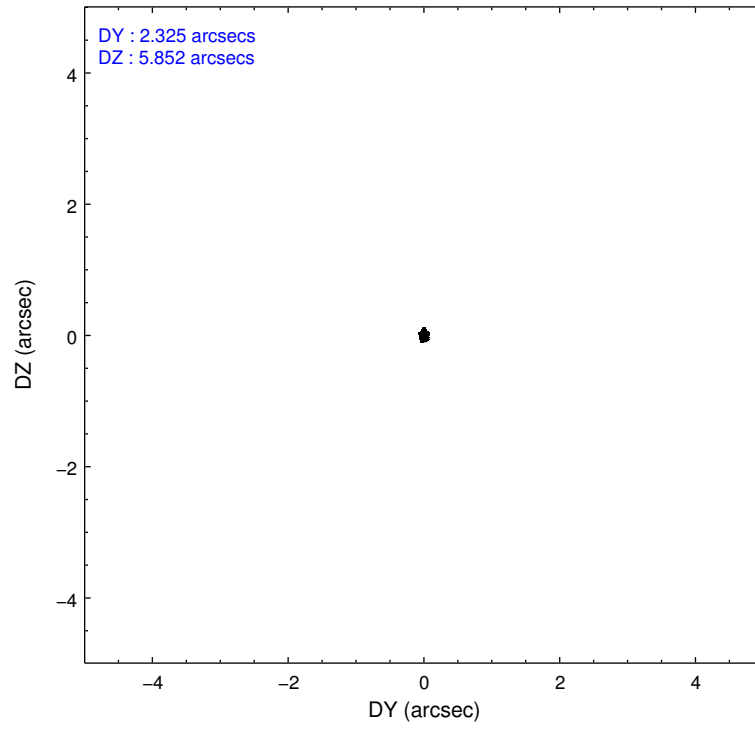
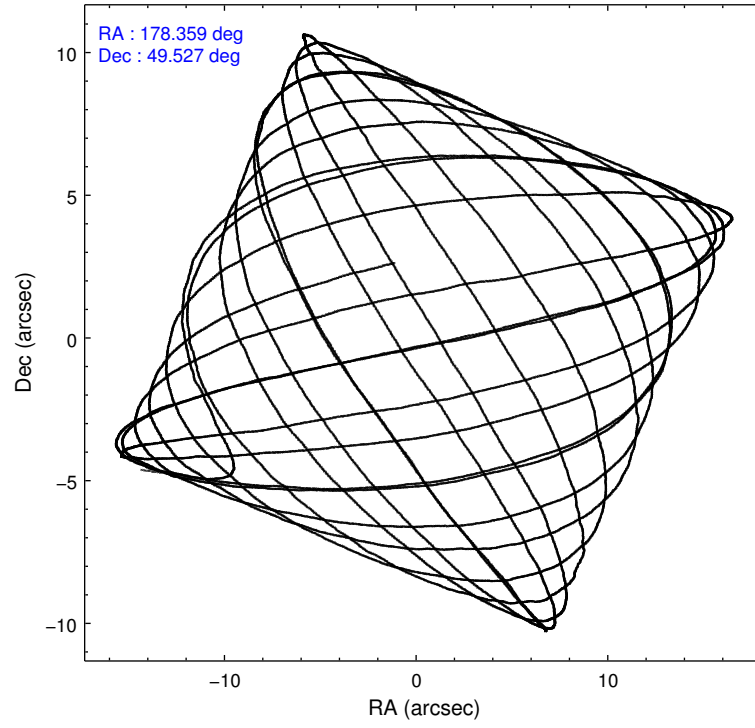


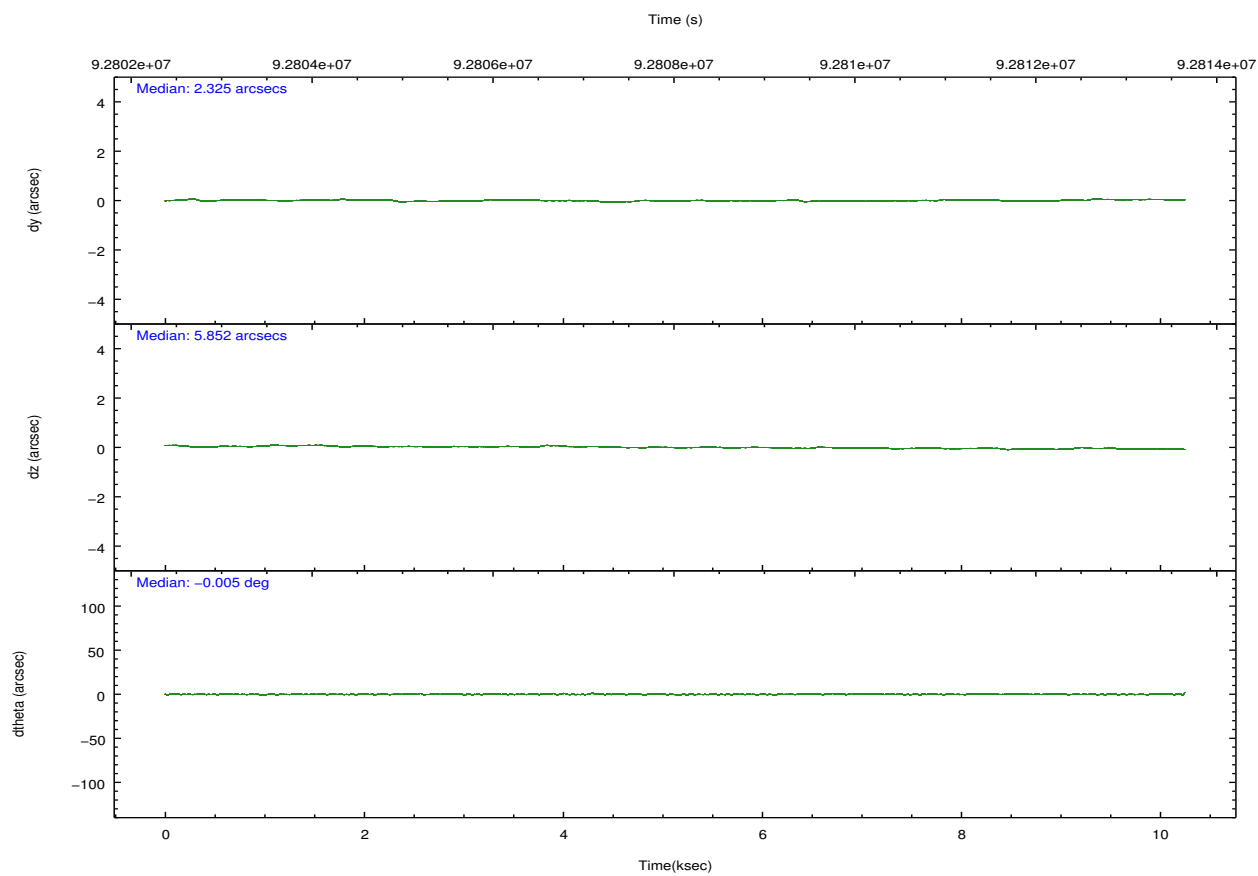
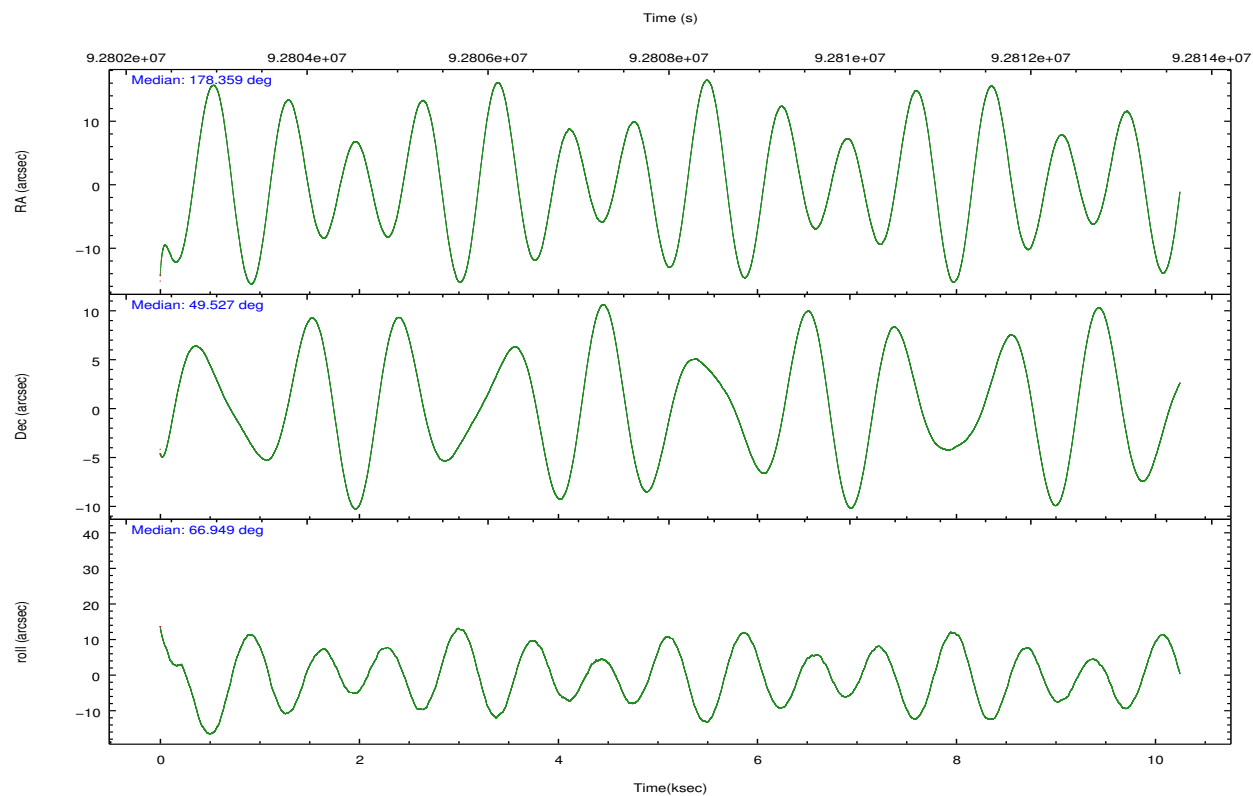
## 2.2 Compared Parameters

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	178.365455	178.359914721392
[deg] Pointing Dec	49.500282	49.52738809327625
[deg] Pointing Roll	66.795602	66.95644959039109
[deg] Roll angle	70.000000	70.000000
[deg] Roll tolerance	70.000000	70.000000
Roll constraint allows 180D rotation	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	92803134.184000	92802139.953876
Observation start date	2000-12-10T02:37:50	2000-12-10T02:22:19
[s] Observation end time (MET)	92813134.184000	92814394.854344
Observation end date	2000-12-10T05:24:30	2000-12-10T05:46:34
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	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

## 2.3 Aspect



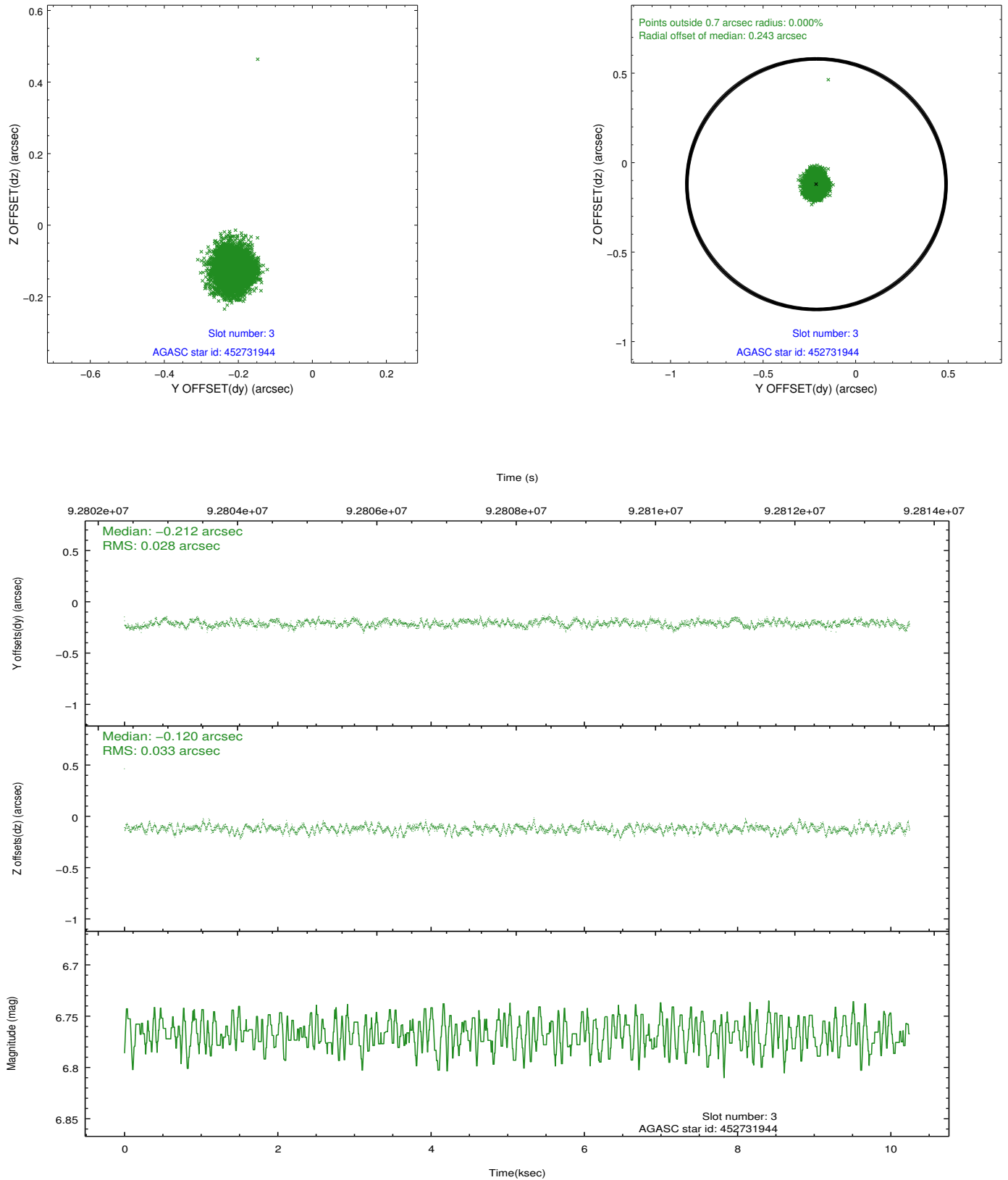


### Slot Statistics

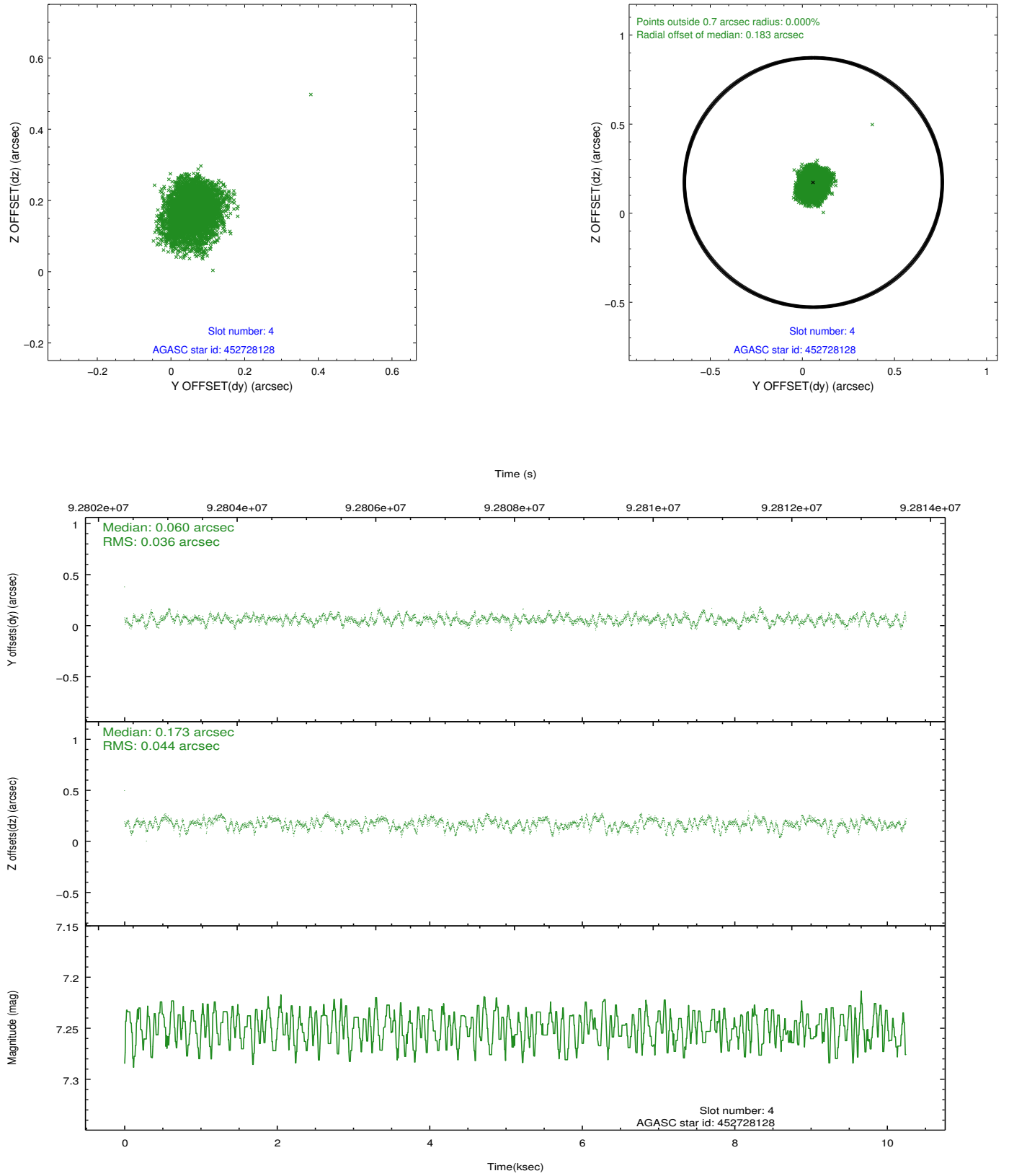
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2500	-0.044	-0.000	0.006	0.010	0.000000	0.000000	-754.96	-1727.00
1	FID	ACIS-S-4	7.21	2499	-0.006	0.021	0.005	0.010	0.000000	0.000000	2158.09	181.02
2	FID	ACIS-S-5	7.24	2500	0.018	-0.012	0.006	0.011	0.000000	0.000000	-1807.11	175.18
3	GUIDE	452731944	6.77	5000	-0.212	-0.120	0.046	0.072	178.059893	49.931691	1150.77	1262.36
4	GUIDE	452728128	7.25	4999	0.060	0.173	0.061	0.099	178.666422	48.933126	-1593.12	-1458.92
5	GUIDE	452730840	8.65	5000	0.187	-0.096	0.069	0.112	177.454175	49.232184	-1718.33	1592.27
6	GUIDE	452729664	9.23	4997	0.074	-0.091	0.080	0.126	178.225787	49.395908	-472.94	151.94
7	GUIDE	452731456	9.09	4998	-0.108	0.139	0.097	0.151	179.499520	49.911597	2416.53	-1825.67

## 2.4 Star Slots

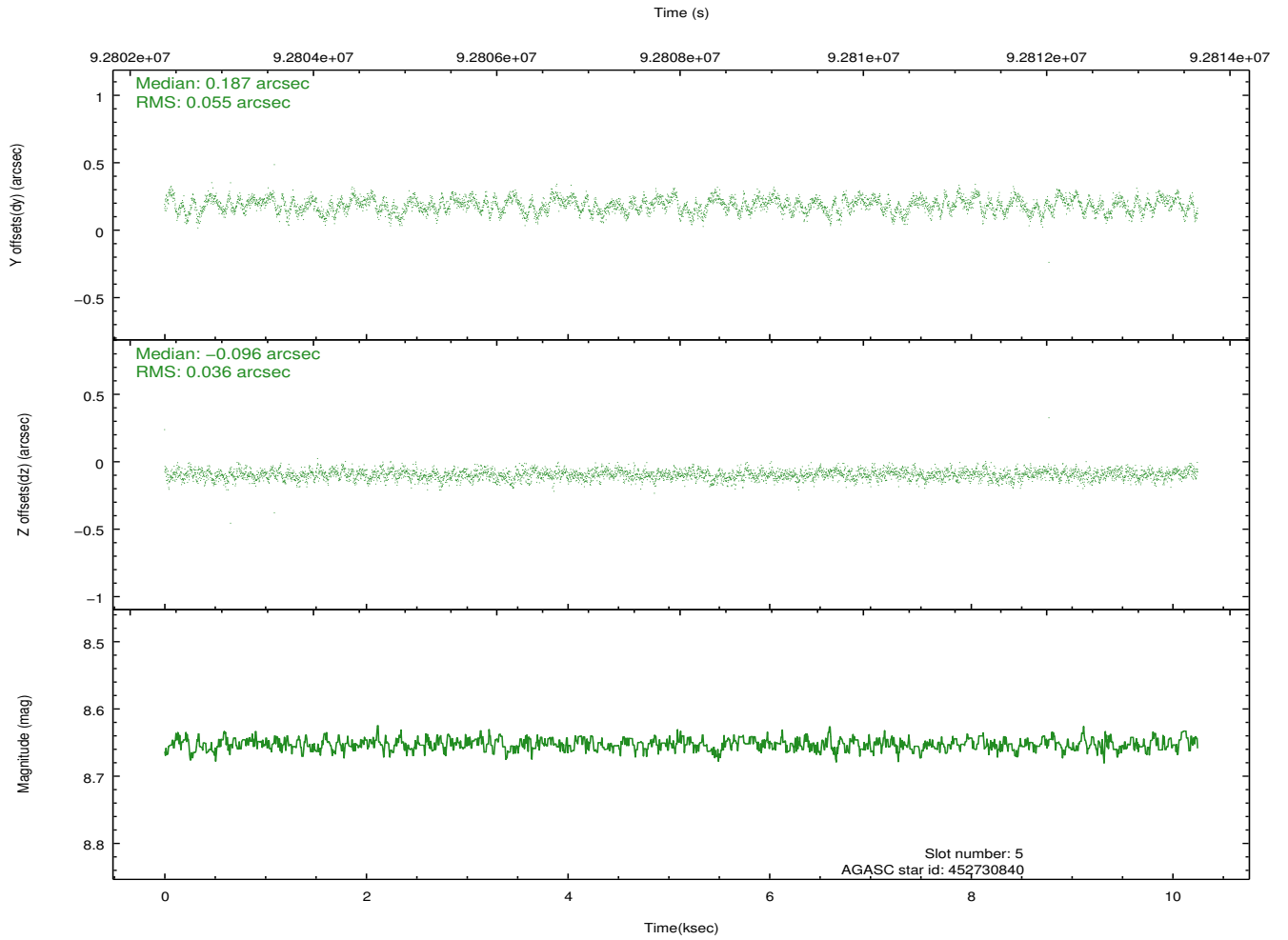
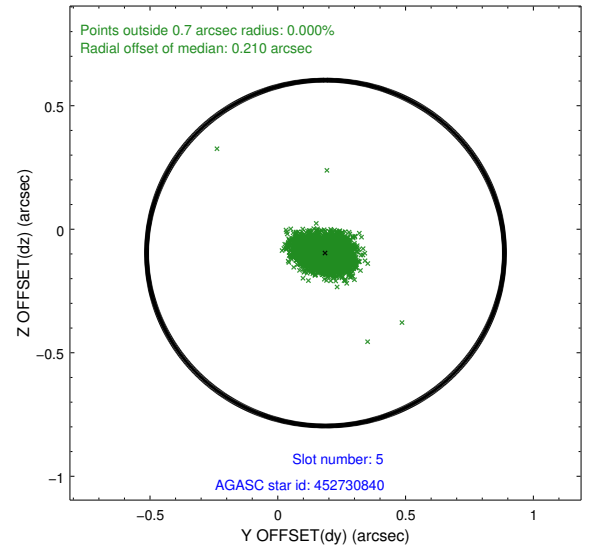
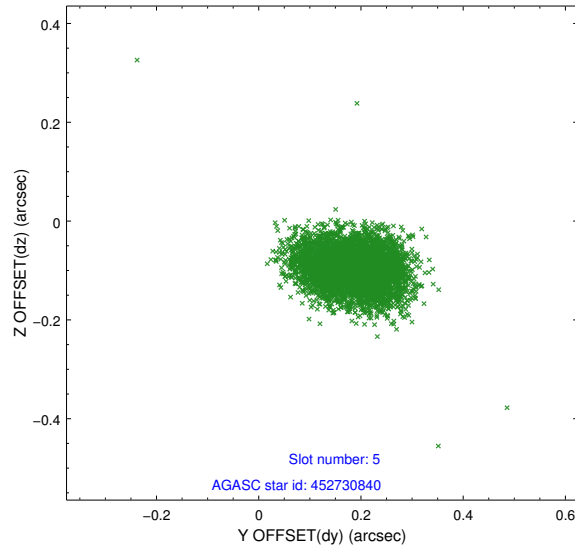
### 2.4.1 Slot 3



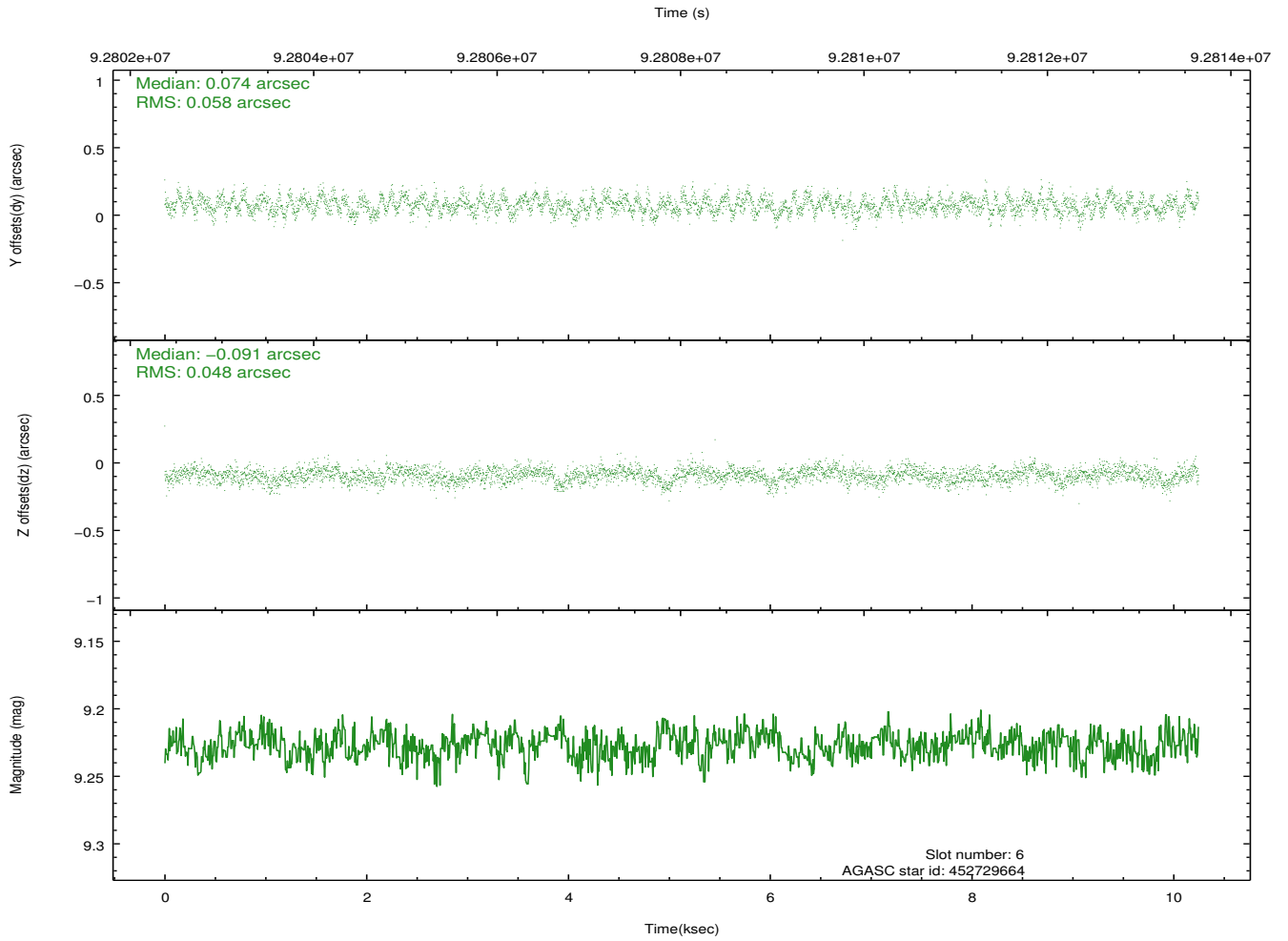
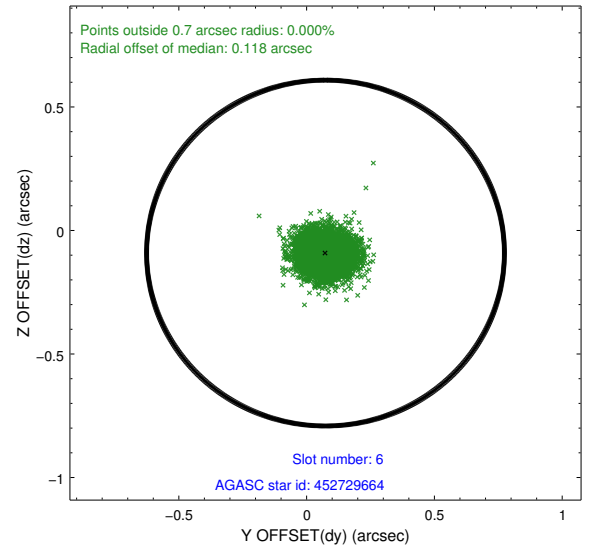
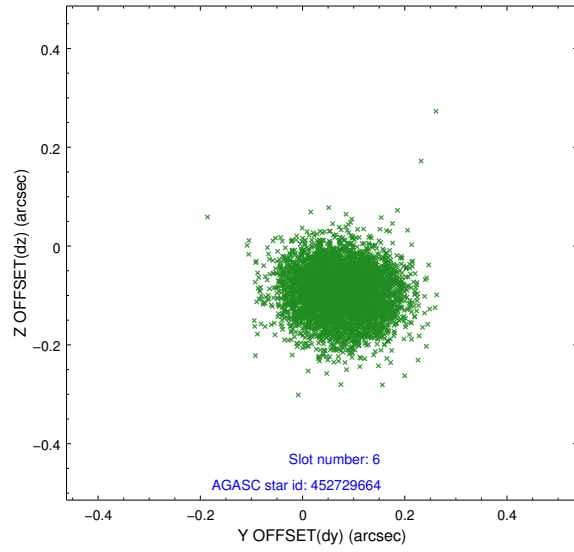
## 2.4.2 Slot 4



### 2.4.3 Slot 5

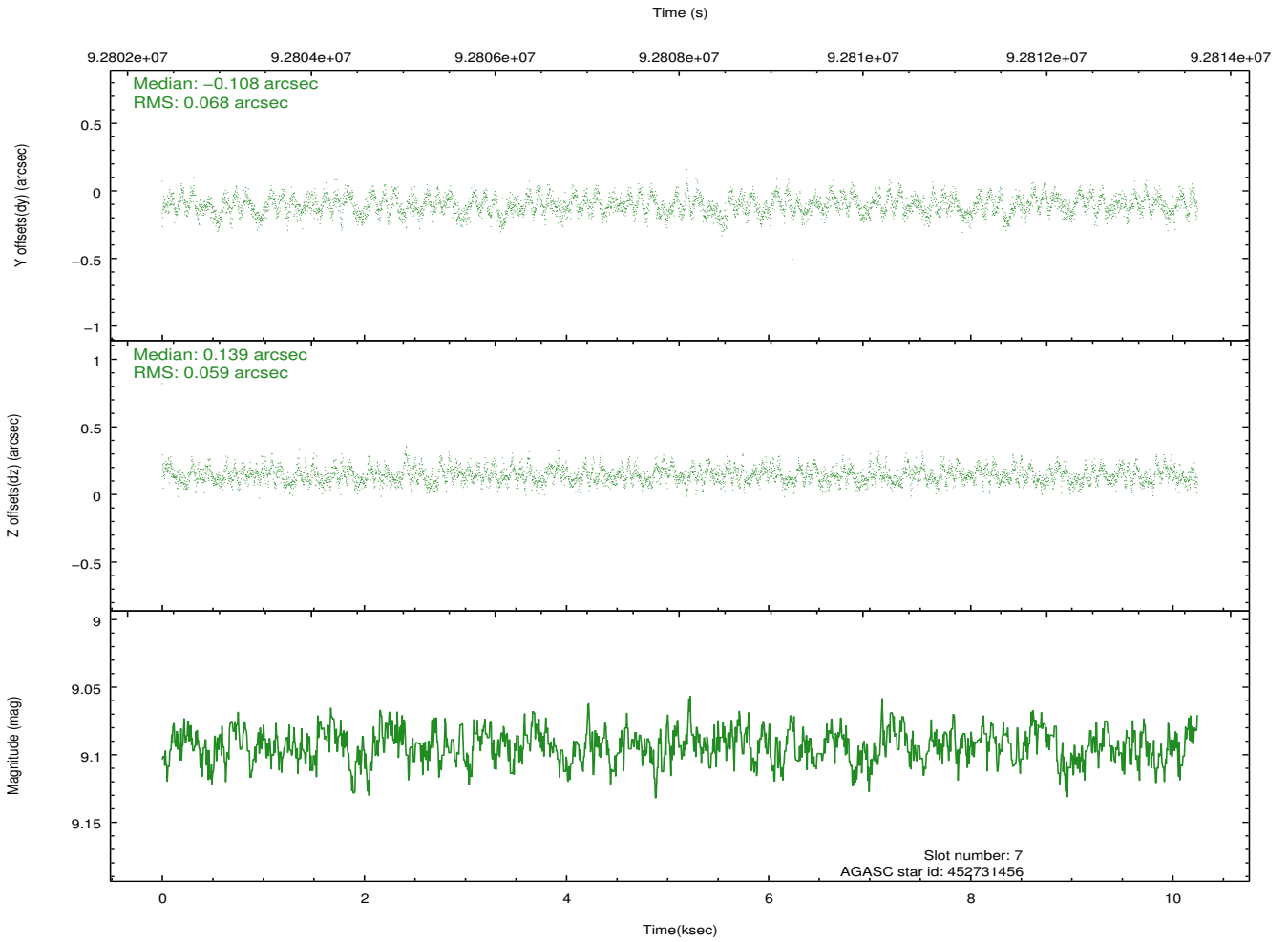
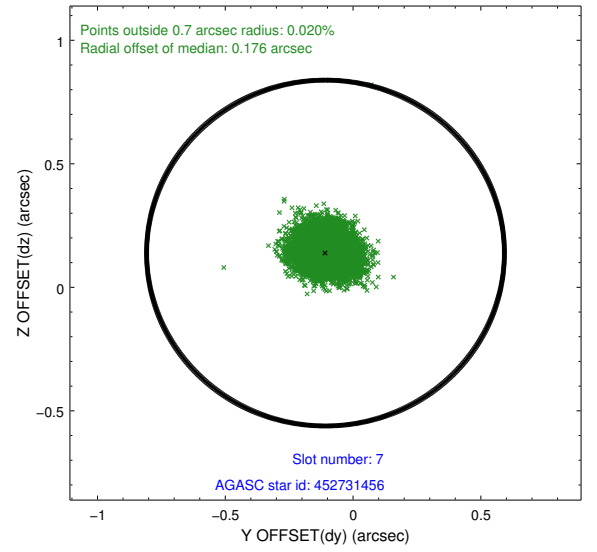
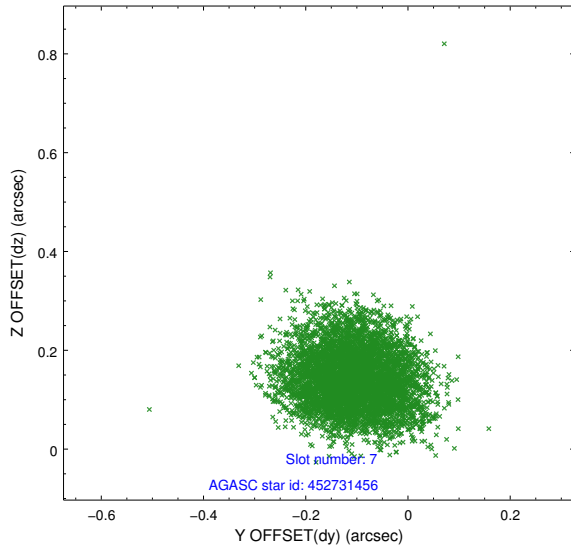


## 2.4.4 Slot 6



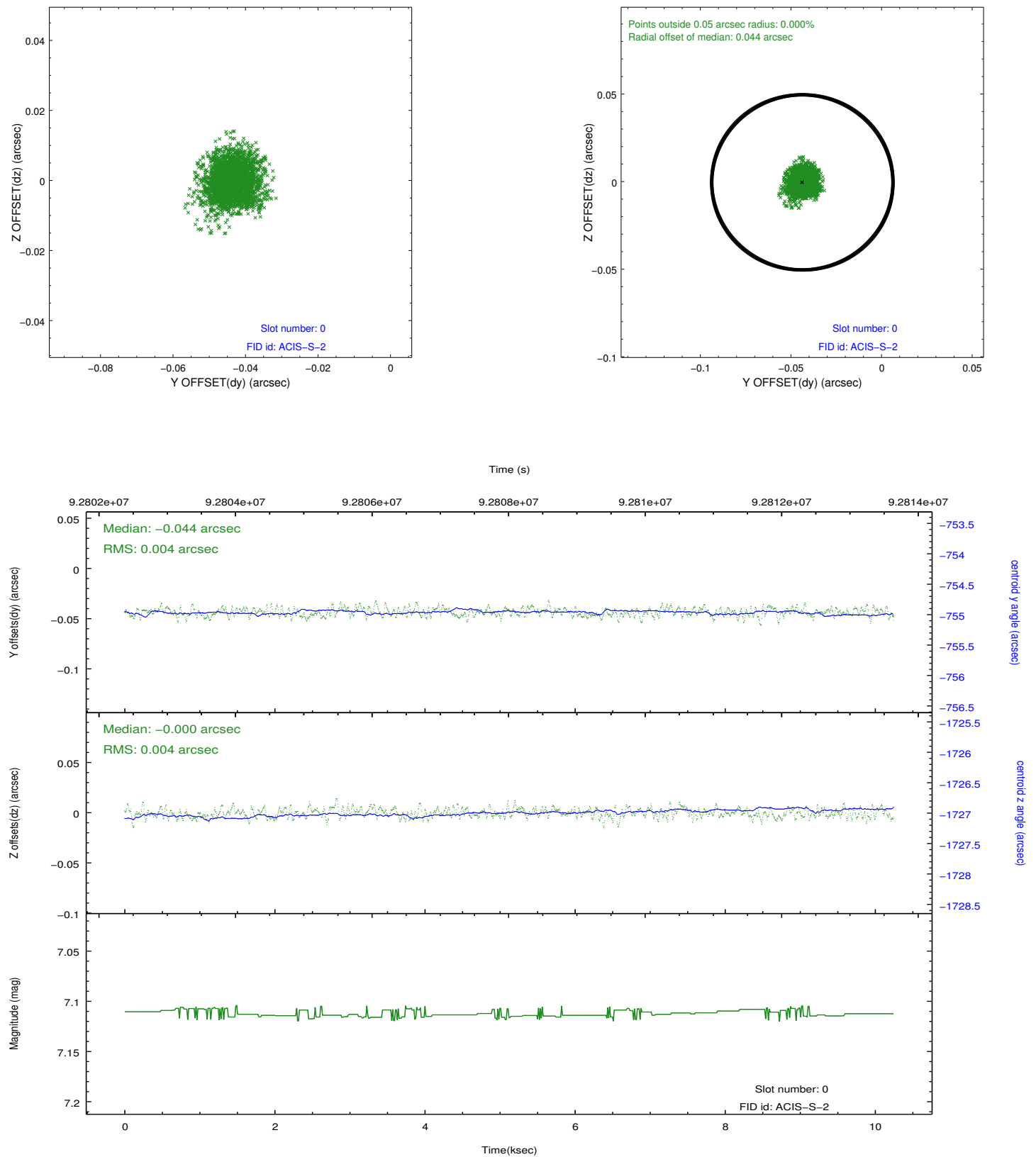


## 2.4.5 Slot 7

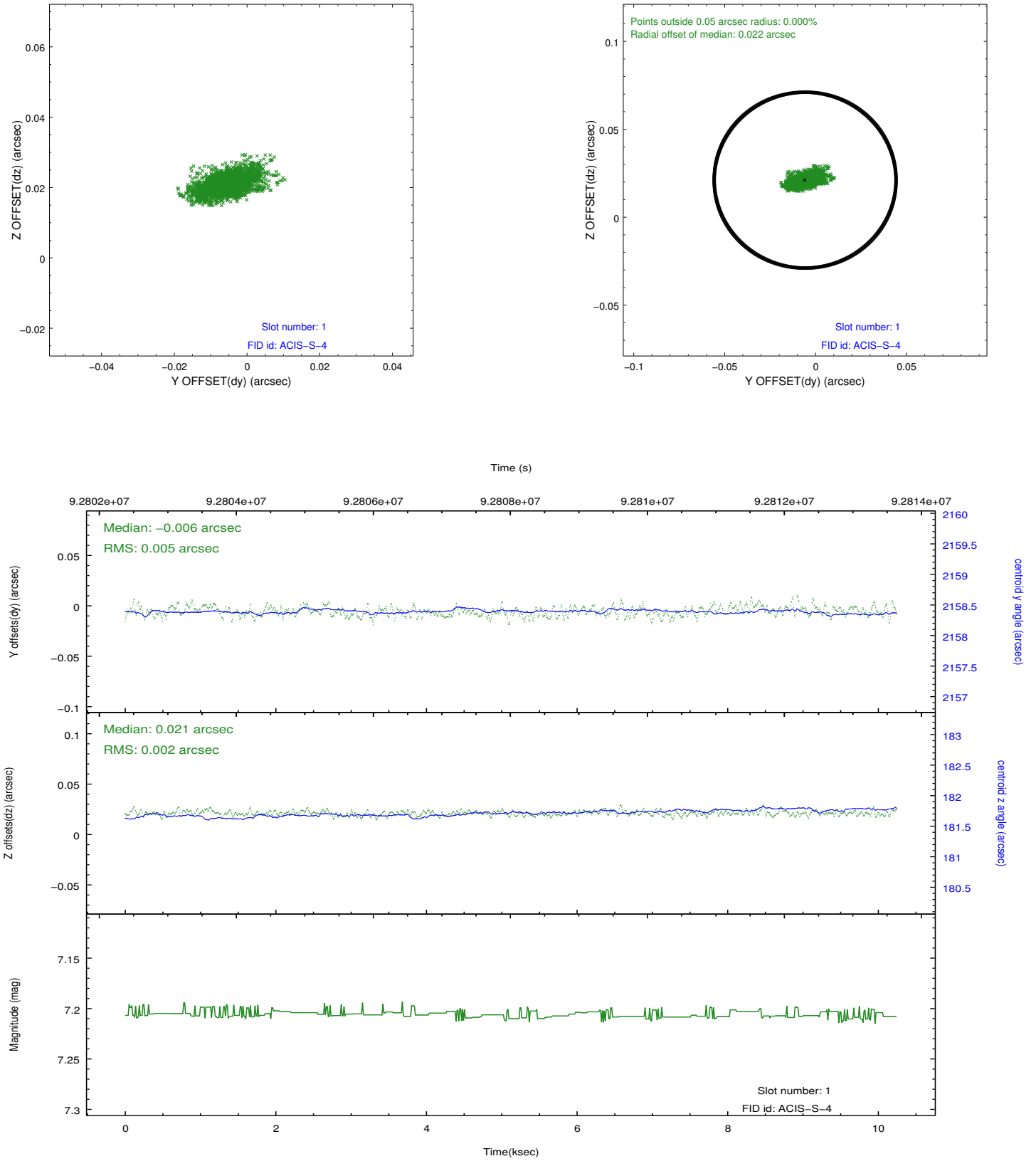


## 2.5 FID Slots

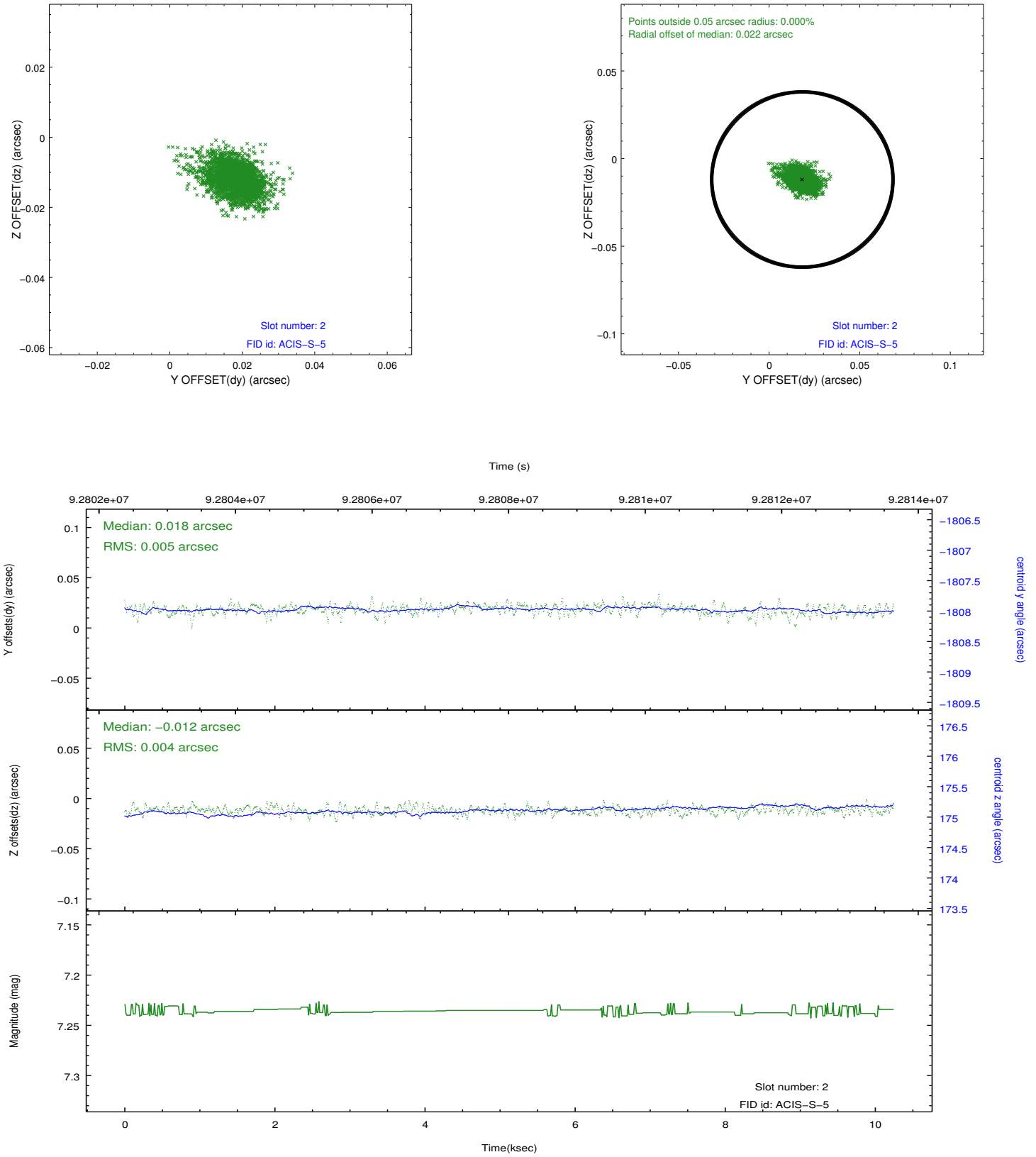
### 2.5.1 Slot 0



## 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)	2012.09.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.247

### A.2 Comments

Roll preference met.