

# V&V Reference Report

## L2 ASCDS Version : 10.4

Observation 17042 - L2 Version 1  
Chandra X-Ray Center

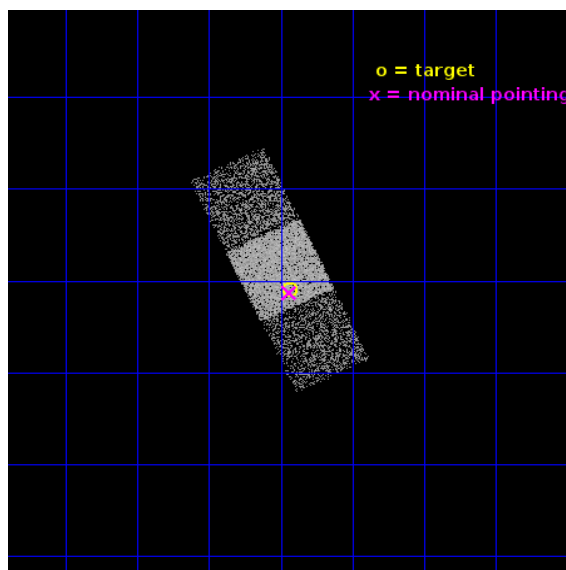
L2 Processing Date : Jul 3 2015

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# 1 Front

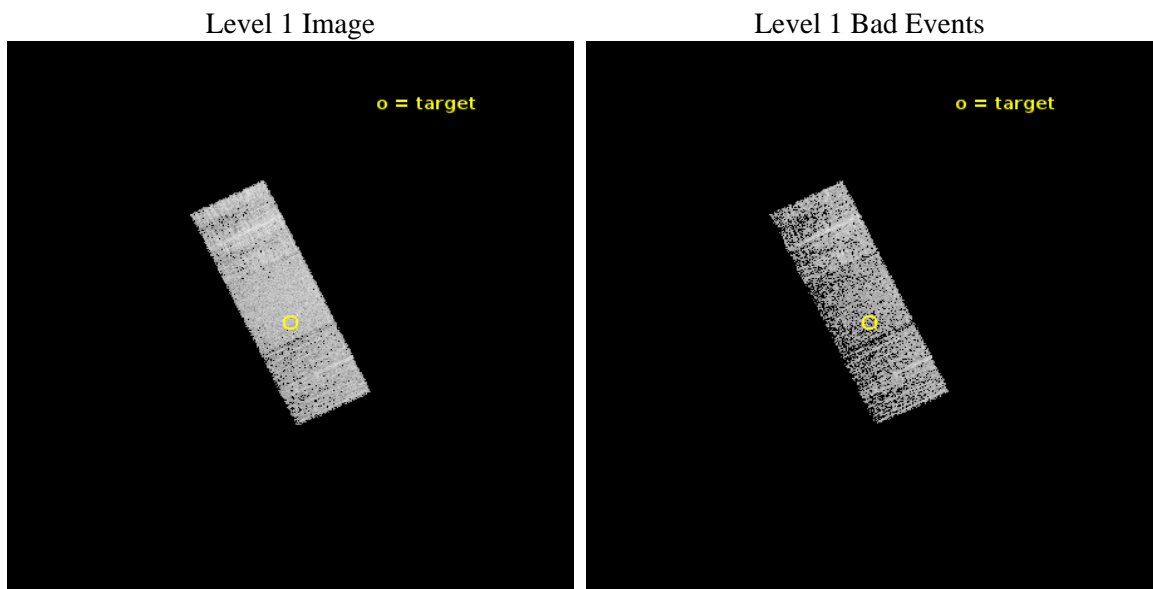
seq_num	703046	Sequence number
obs_id	17042	Observation id
title	The Nature of Quasars with Redshifted Broad Absorption Lines	Propo
observer	Prof. William Brandt	Principal investigator
object	SDSS J1125+0029	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	171.35875	Observer's specified target RA [deg]
dec_targ	0.483694	Observer's specified target Dec [deg]
ra_nom	171.35989425167	Nominal RA [deg]
dec_nom	0.47839333639291	Nominal Dec [deg]
roll_nom	244.15665791057	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3813.0000294447	Sum of GTIs [s]
livetime	3763.1803769702	Livetime [s]
ontime6	3813.0000294447	Sum of GTIs [s]
ontime7	3813.0000294447	Sum of GTIs [s]
ontime8	3813.0000294447	Sum of GTIs [s]
l2events	15429	Number of level 2 events



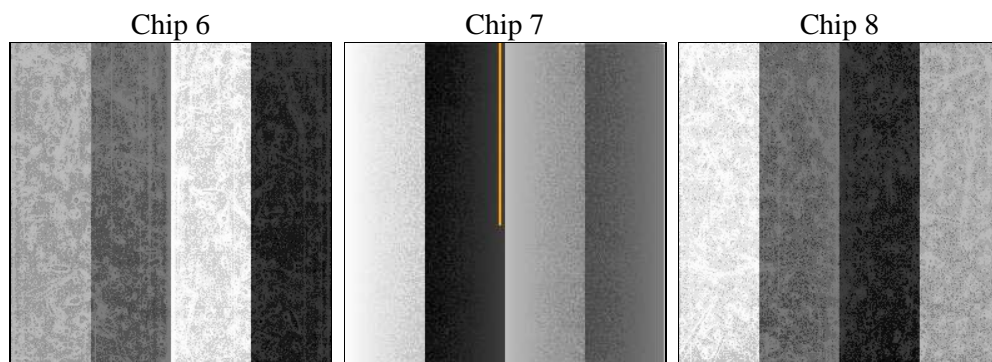
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3700.000000	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	3813.0000294447	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime6	3813.0000294447	Sum of GTIs [s]
date	2015-07-03T19:16:07	Date and time of file creation	ontime7	3813.0000294447	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	3813.0000294447	Sum of GTIs [s]
			l1events	72441	Number of level 1 events

### 2.1.4 Events

	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
level 1 events	18099	25571	28771
rejected events	15736	14503	20361
rejected %	86%	56%	70%

	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
grade 0 events	772	1005	2423
	4%	3%	8%
grade 1 events	6	30	30
	0%	0%	0%
grade 2 events	578	2354	1805
	3%	9%	6%
grade 3 events	237	901	1048
	1%	3%	3%
grade 4 events	220	996	928
	1%	3%	3%
grade 5 events	1038	2668	1496
	5%	10%	5%
grade 6 events	559	5824	2227
	3%	22%	7%
grade 7 events	14689	11793	18814
	81%	46%	65%

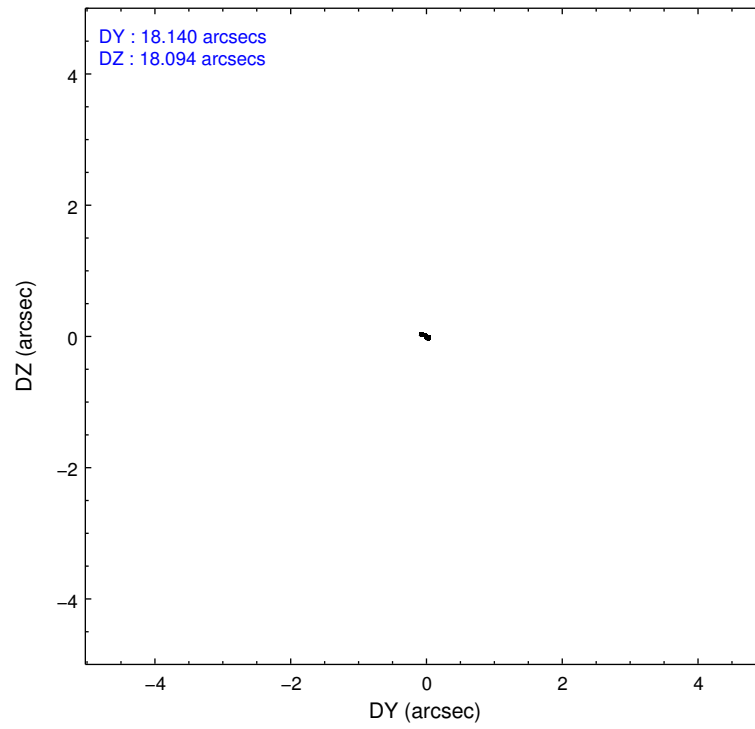
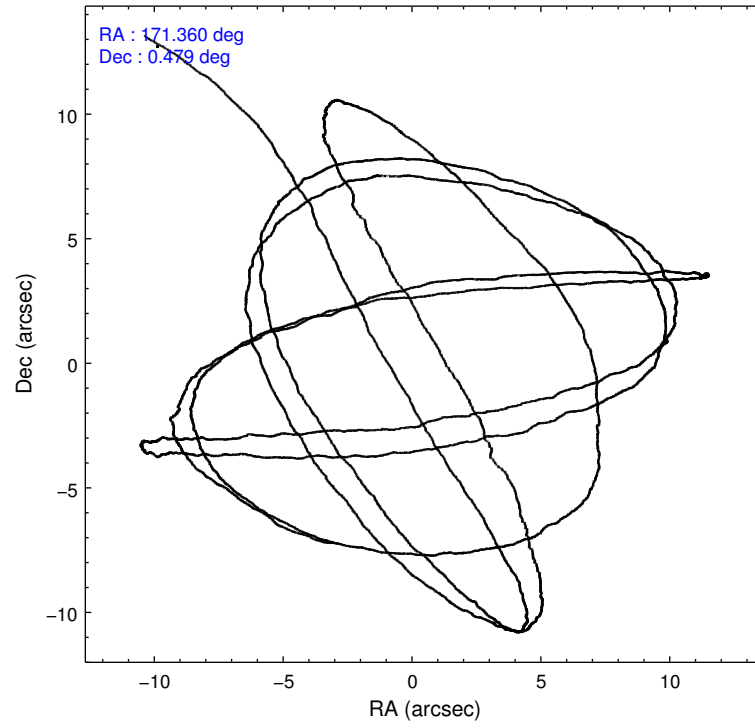


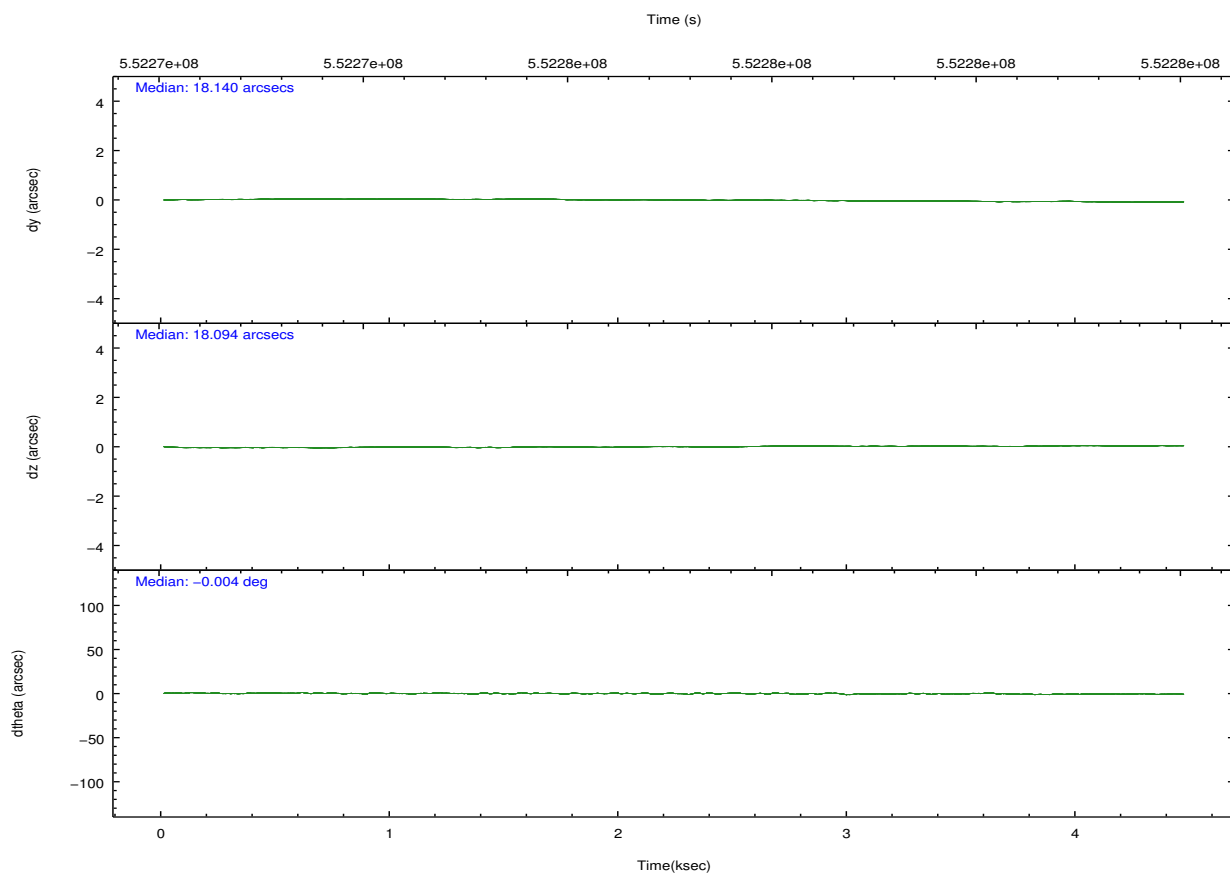
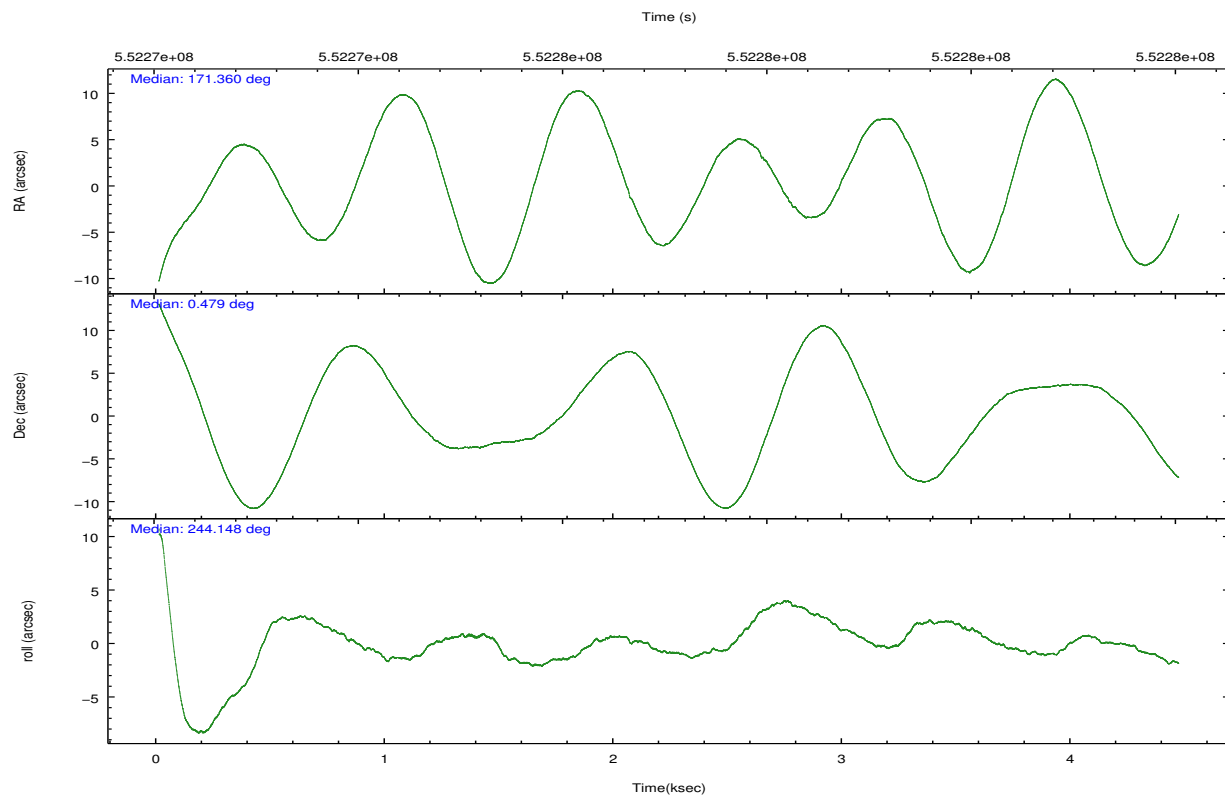
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	171.357642	171.3598942516679
[deg] Pointing Dec	0.505747	0.4783933363929115
[deg] Pointing Roll	244.000011	244.1566579105737
[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)	552274058.184000	552272648.5750901
Observation start date	2015-07-03T01:26:30	2015-07-03T01:04:08
[s] Observation end time (MET)	552277758.184000	552278745.27543
Observation end date	2015-07-03T02:28:10	2015-07-03T02:45:45
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	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



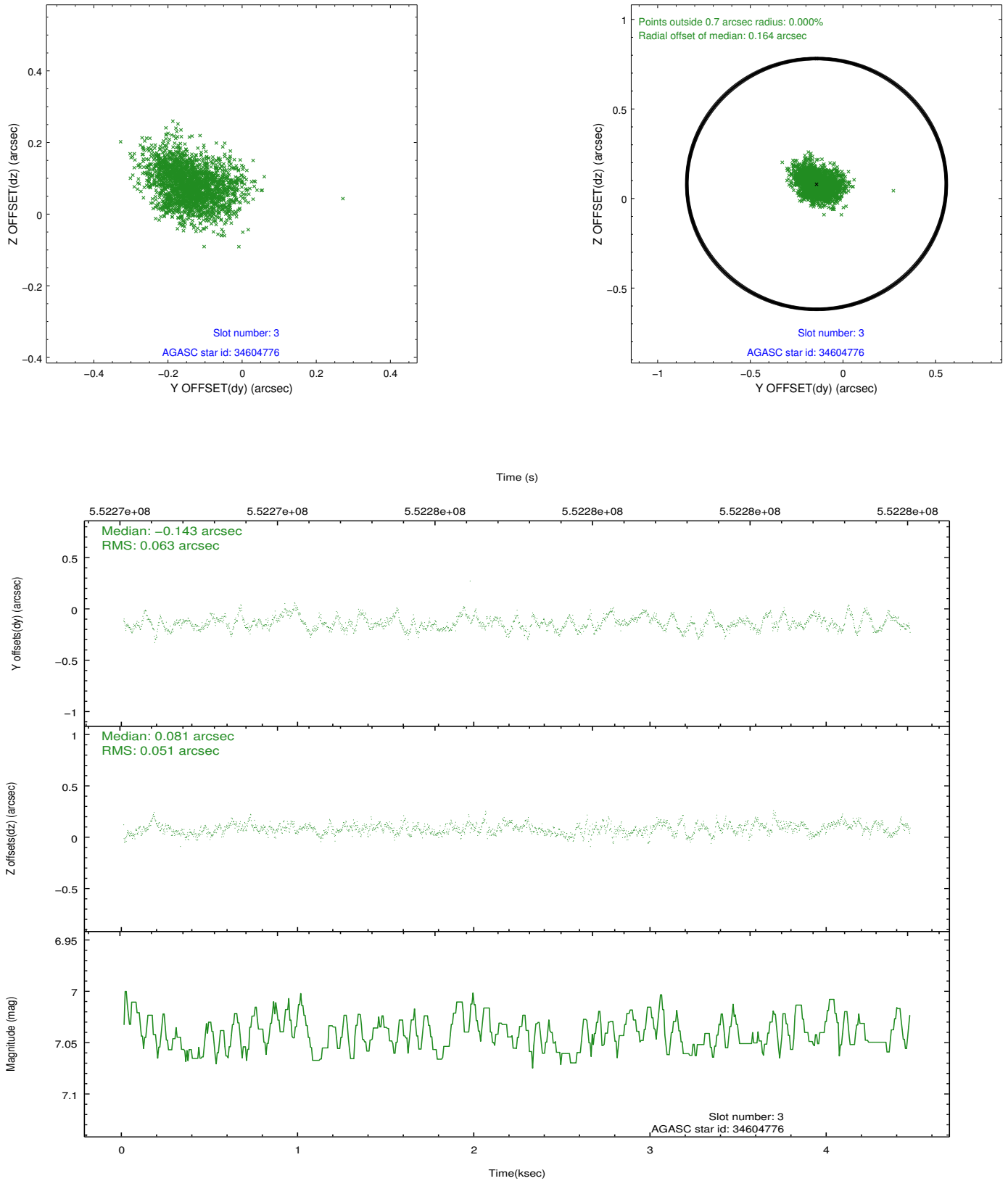


### Slot Statistics

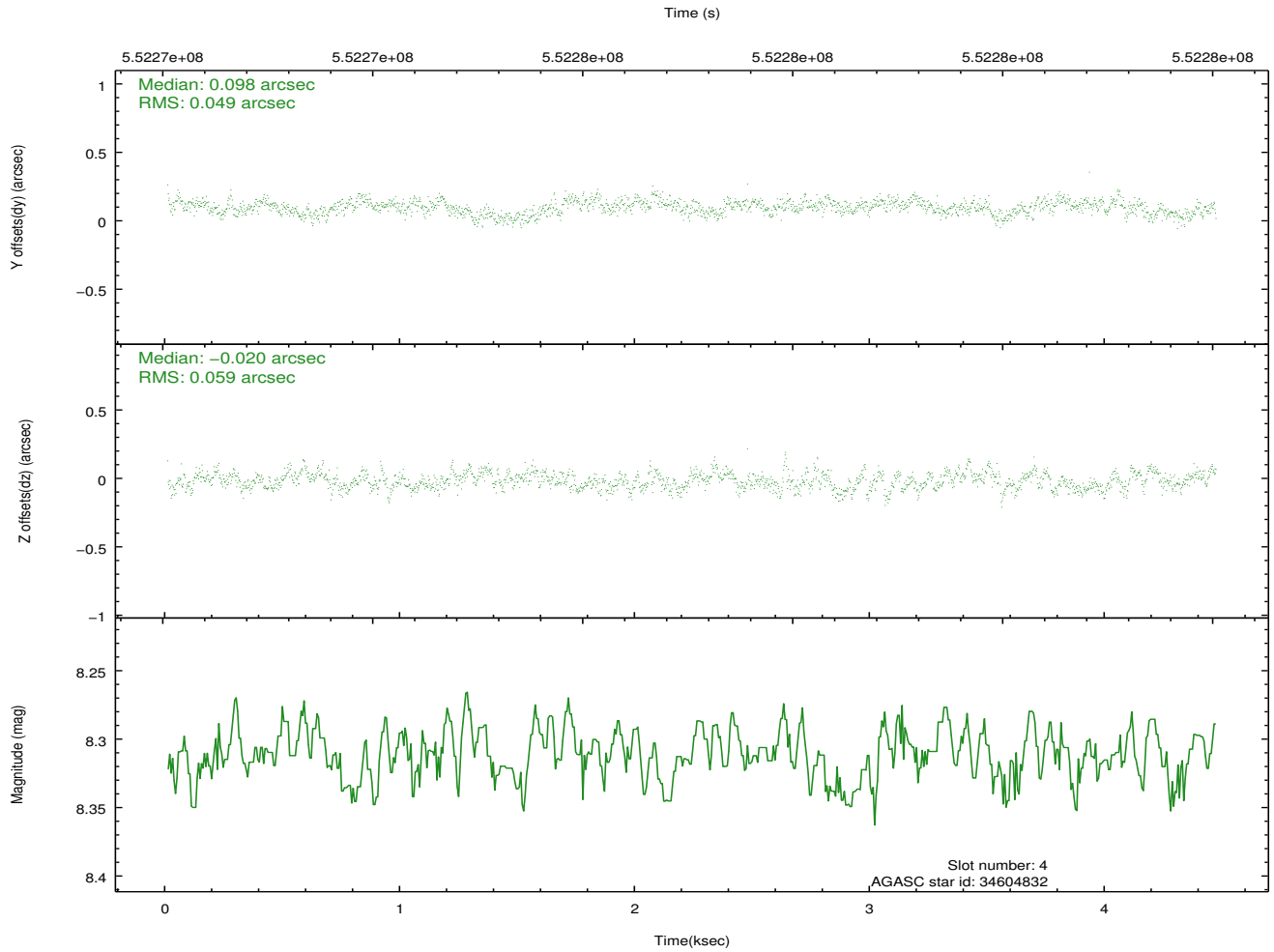
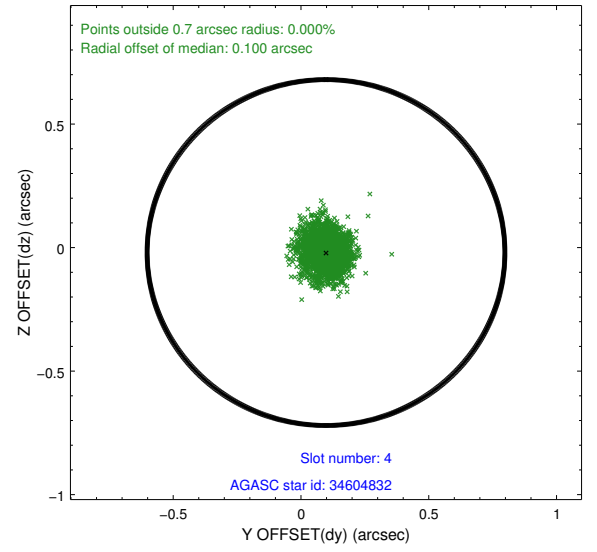
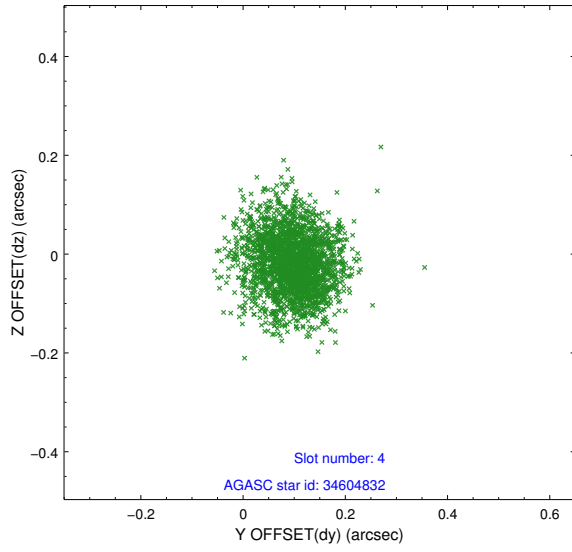
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.84	1089	-0.102	-0.065	0.006	0.010	0.000000	0.000000	-771.30	-1739.61
1	FID		ACIS-S-4	6.93	1089	0.322	0.066	0.006	0.012	0.000000	0.000000	2141.78	167.54
2	FID		ACIS-S-5	6.95	1089	-0.252	0.008	0.007	0.012	0.000000	0.000000	-1822.51	162.76
3	GUIDE	used	34604776	7.04	2178	-0.143	0.081	0.087	0.142	171.891747	0.956159	-2299.25	1018.41
4	GUIDE	used	34604832	8.31	2178	0.098	-0.020	0.081	0.130	171.211441	1.245888	-2164.88	-1640.12
5	GUIDE	used	34605648	9.01	2176	0.081	-0.156	0.108	0.173	170.878184	0.460021	904.03	-1478.76
6	GUIDE	used	34607376	8.55	2178	-0.054	-0.047	0.091	0.145	171.651169	1.055232	-2240.22	81.72
7	GUIDE	used	34607832	8.54	2175	0.019	0.143	0.087	0.146	171.412630	1.023891	-1764.18	-639.09

## 2.4 Star Slots

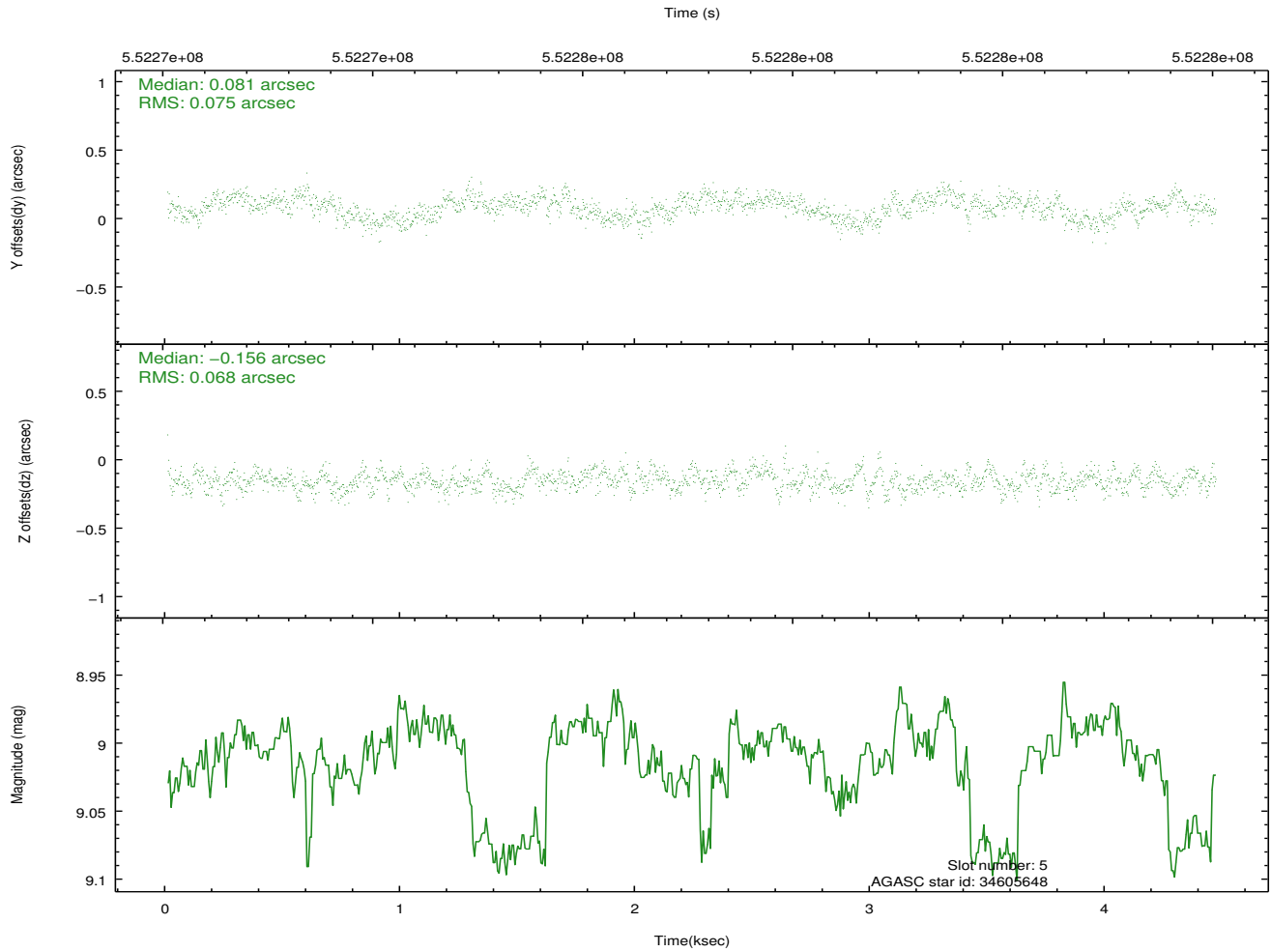
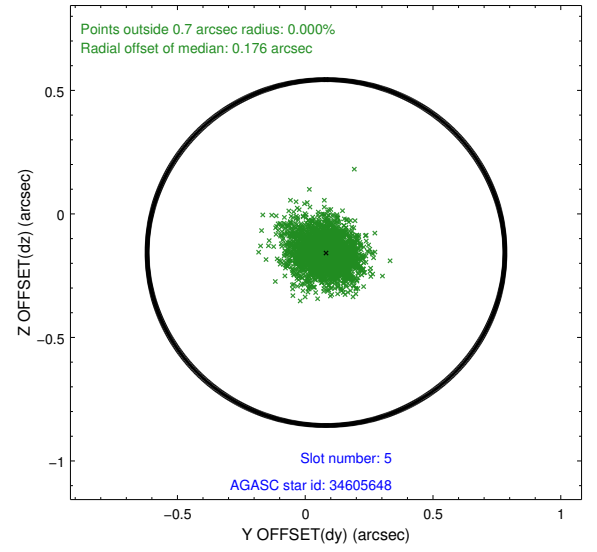
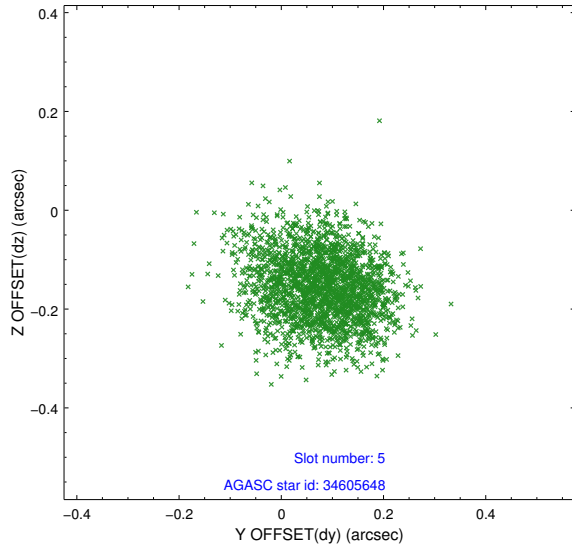
### 2.4.1 Slot 3



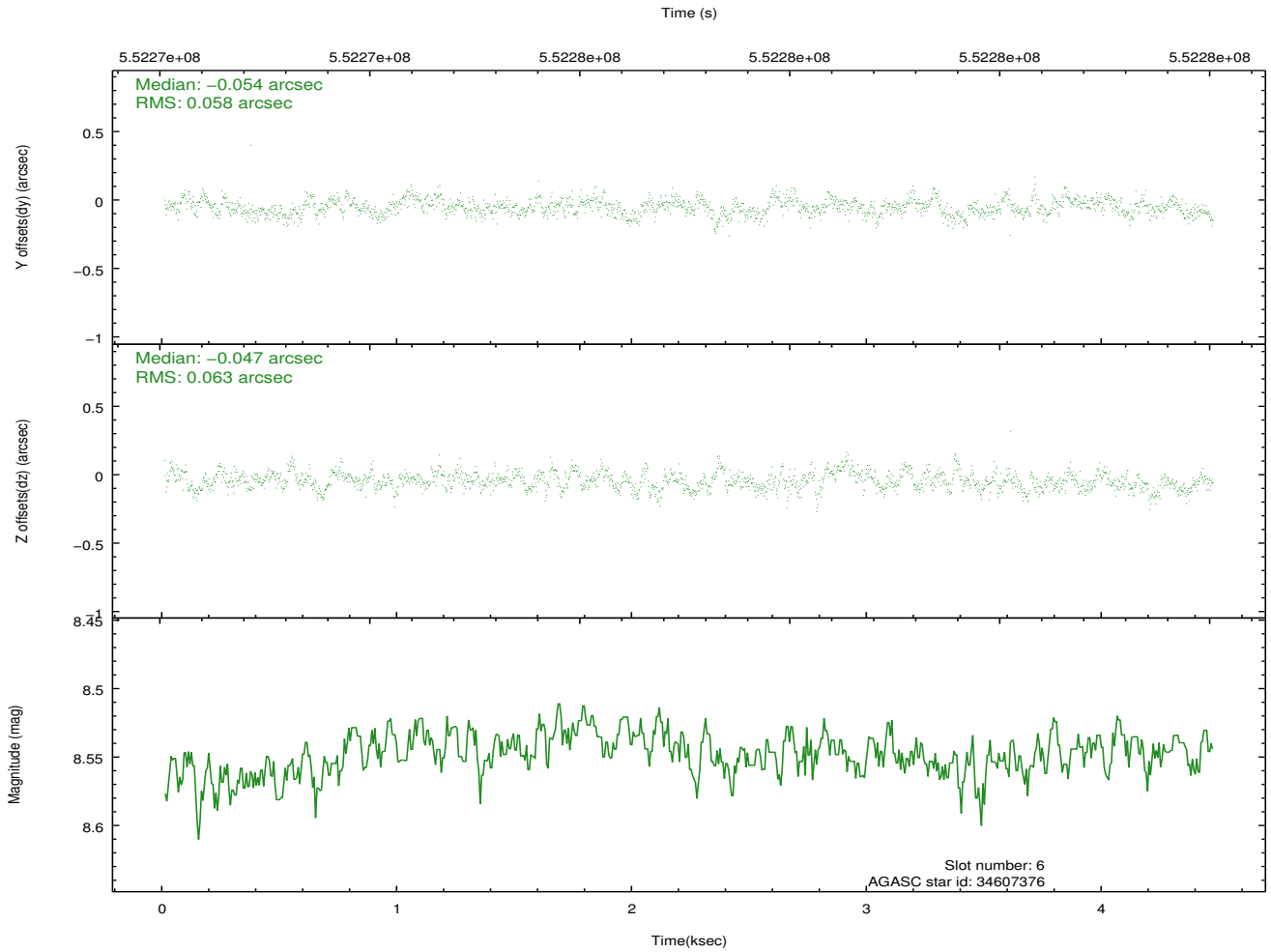
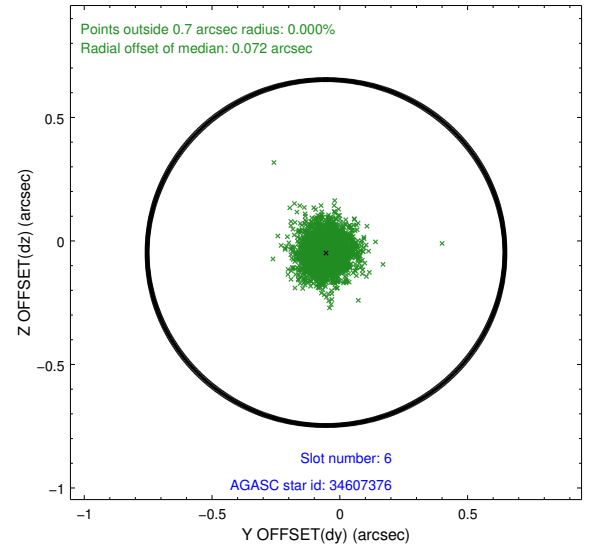
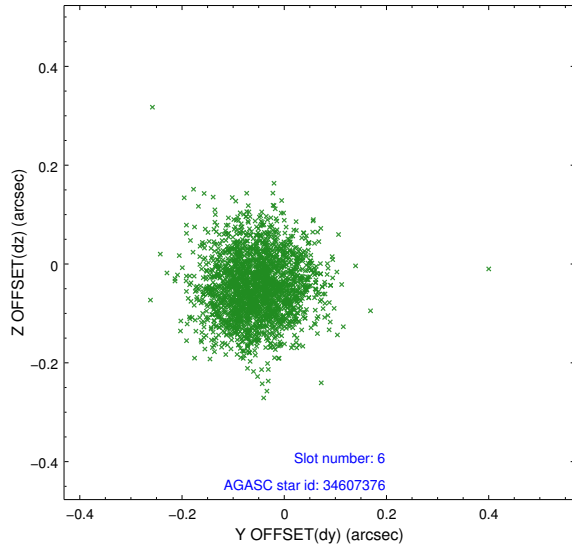
## 2.4.2 Slot 4



### 2.4.3 Slot 5

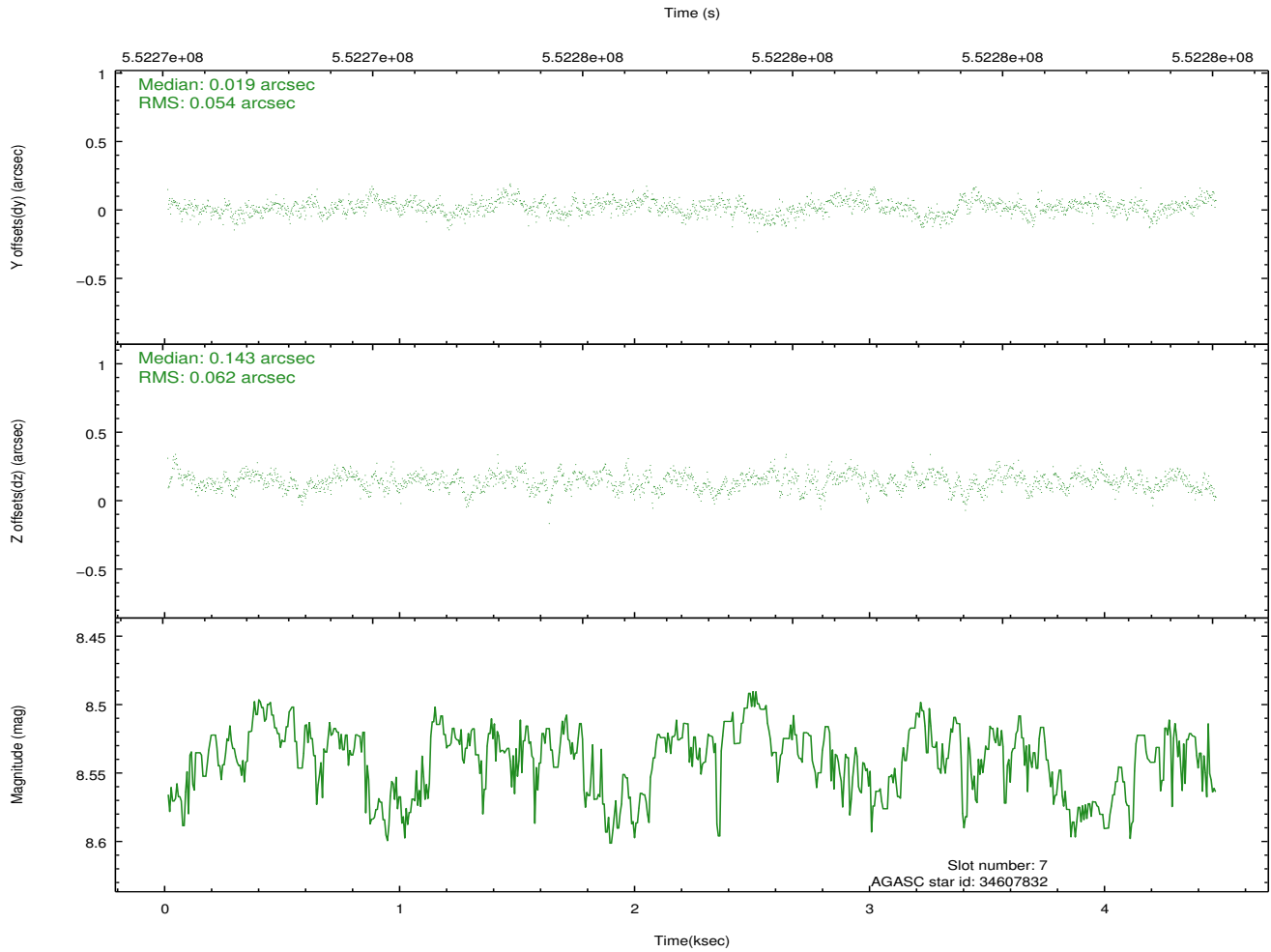
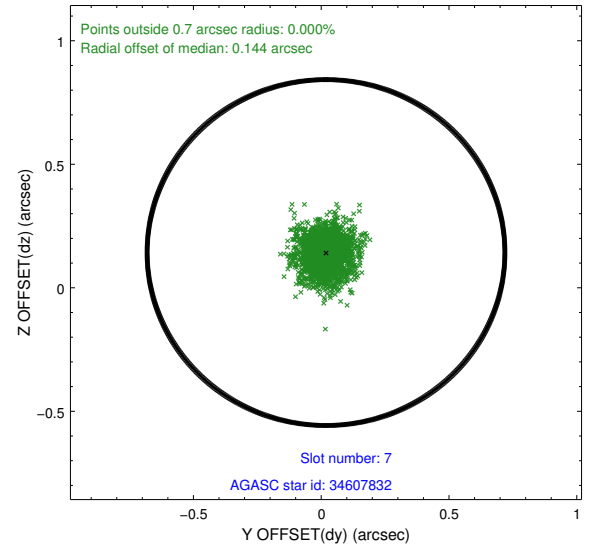
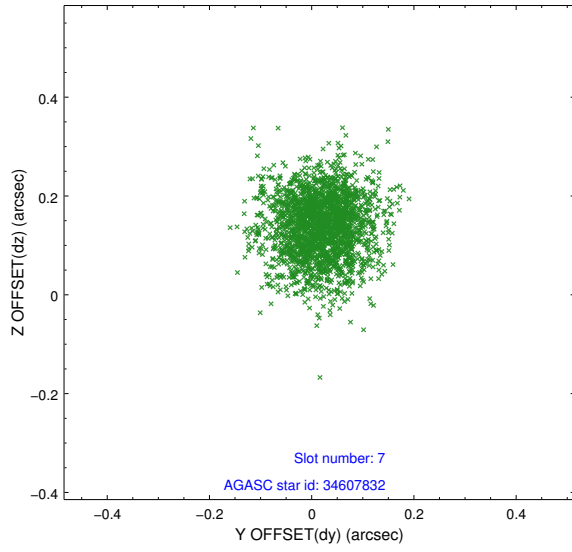


## 2.4.4 Slot 6



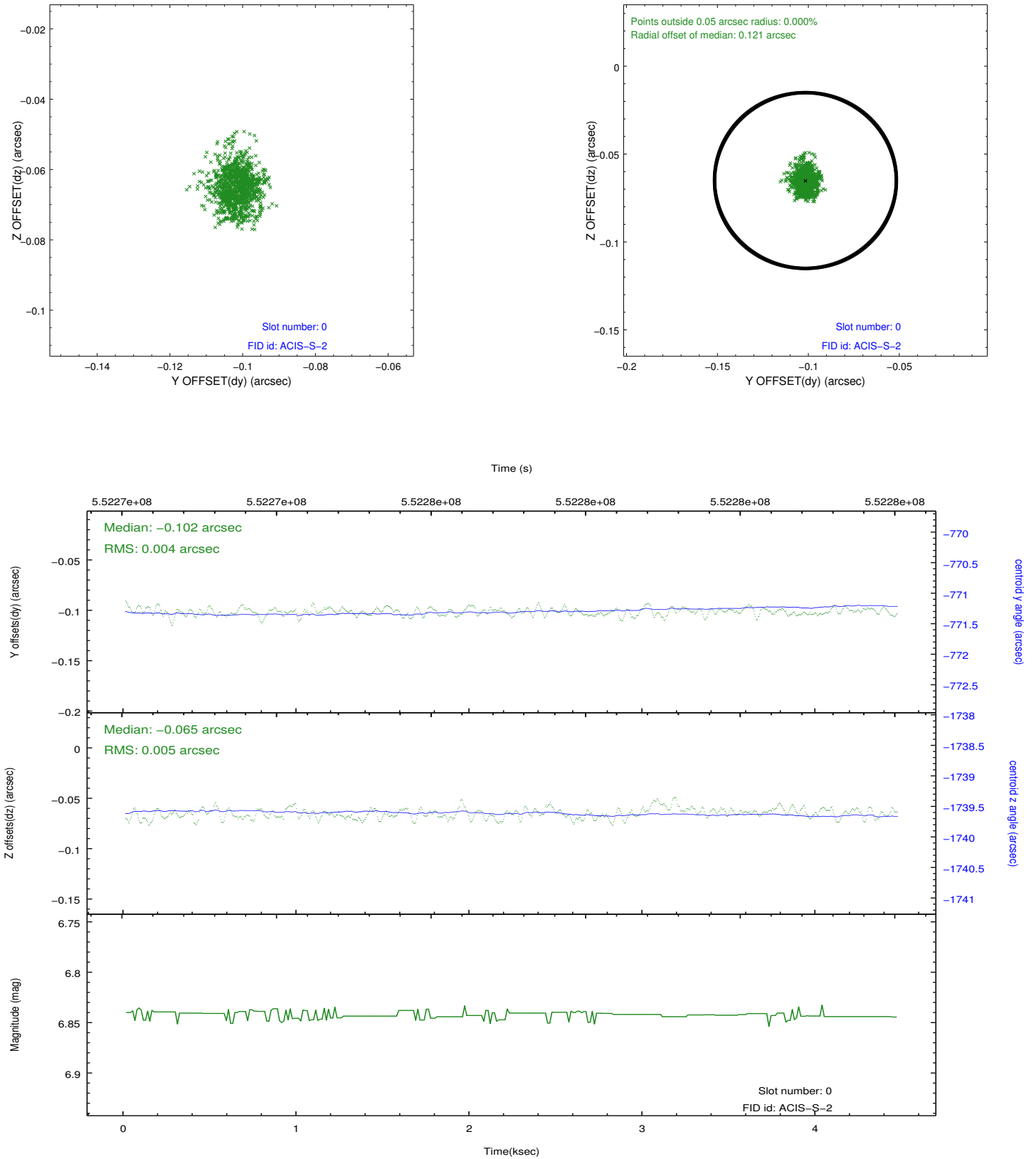


## 2.4.5 Slot 7

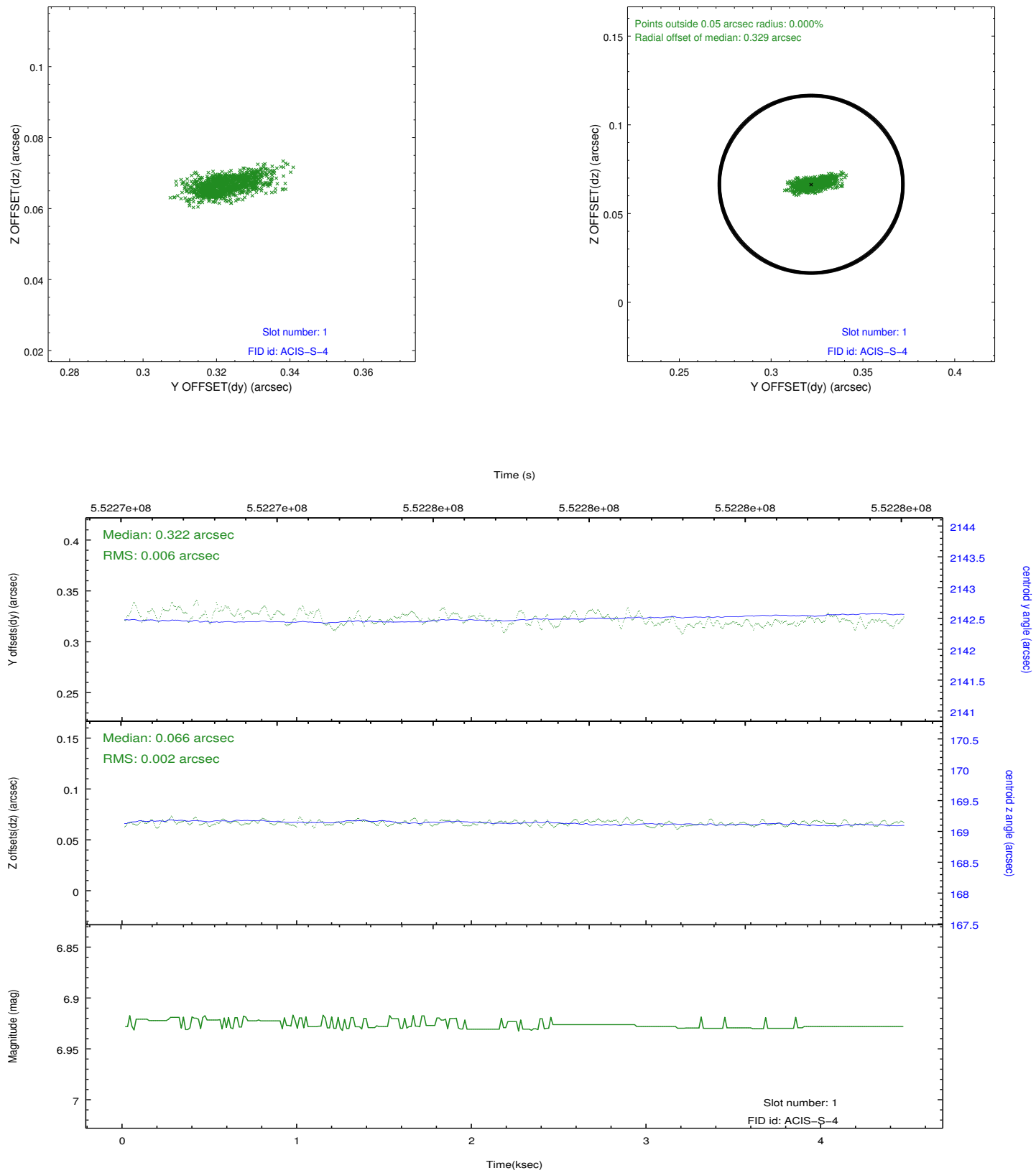


## 2.5 FID Slots

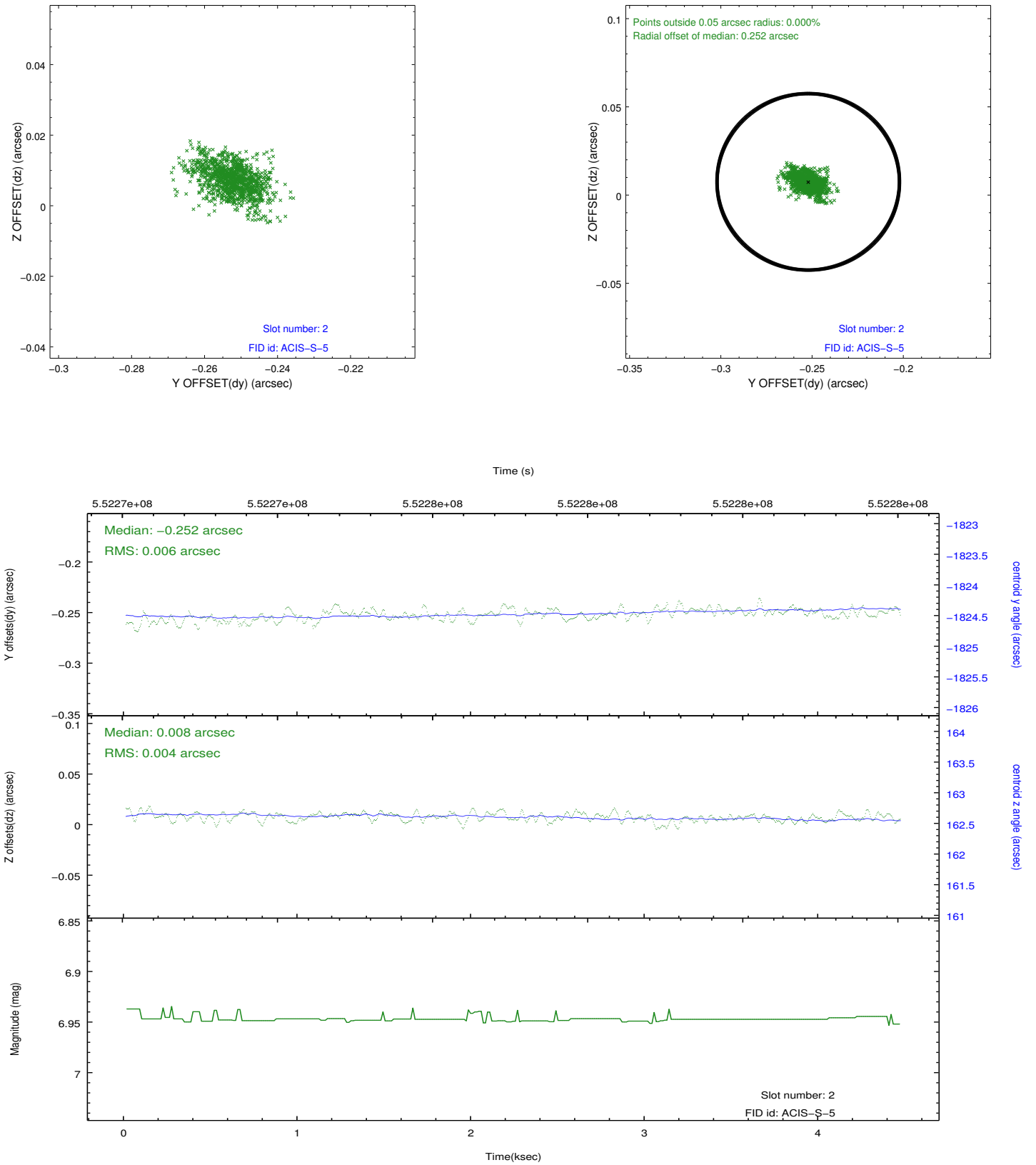
### 2.5.1 Slot 0



## 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)	2015.07.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.8130000294447

### A.2 Comments