

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 16164 - L2 Version 1  
Chandra X-Ray Center

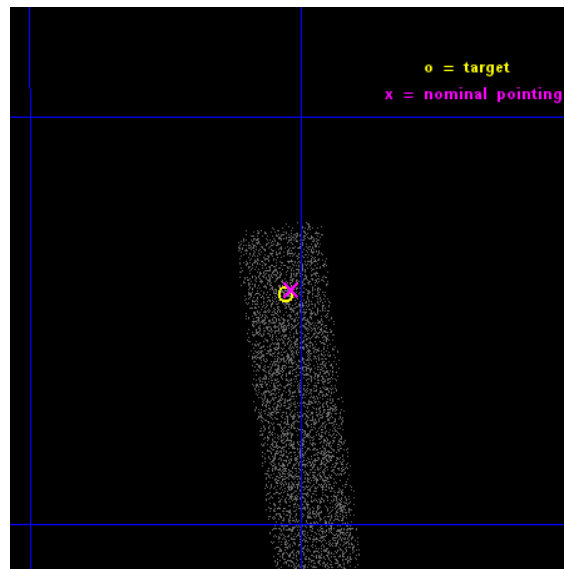
L2 Processing Date : Jan 31 2015

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# 1 Front

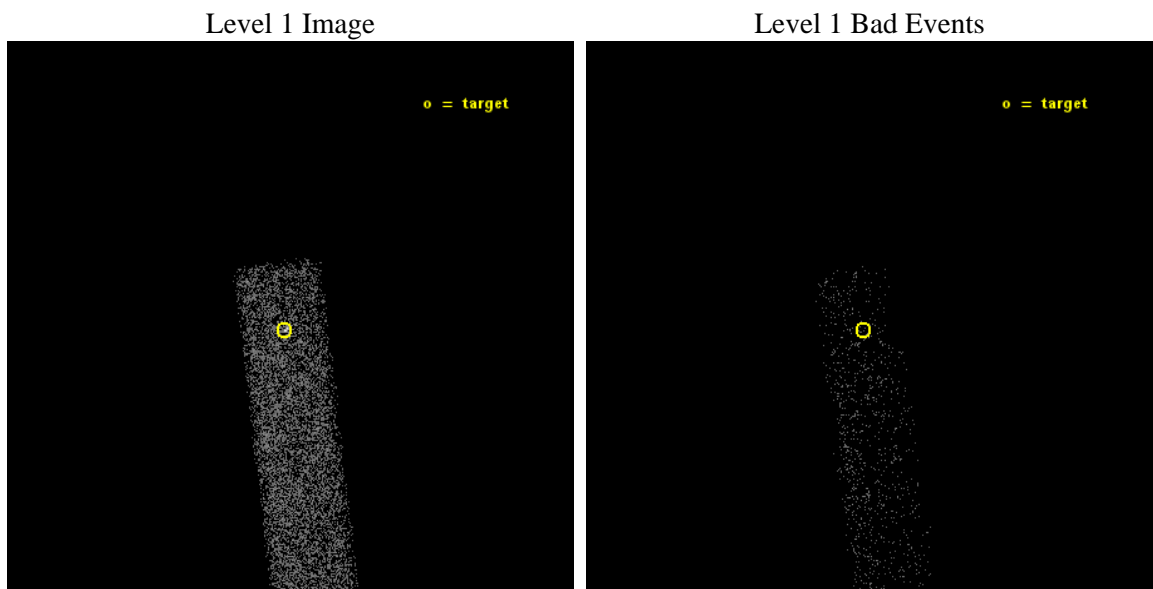
seq_num	901104	Sequence number
obs_id	16164	Observation id
title	Chandra Studies of Unidentified X-ray Sources in the Galactic Bulge	&#160
observer	Dr. Hideyuki Mori	Principal investigator
object	1RXS J172231.6-190422	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	260.631667	Observer's specified target RA [deg]
dec_targ	-19.072778	Observer's specified target Dec [deg]
ra_nom	260.62917235788	Nominal RA [deg]
dec_nom	-19.070789394892	Nominal Dec [deg]
roll_nom	82.897342788789	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7060.7753920555	Sum of GTIs [s]
livetime	6716.2326567636	Livetime [s]
ontime7	7060.7753920555	Sum of GTIs [s]
l2events	6125	Number of level 2 events



## 2 OBI

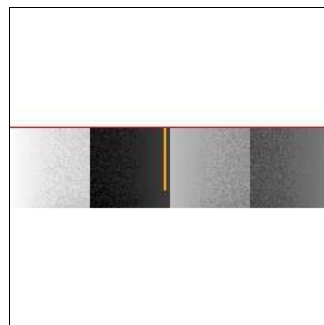
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	7060.7753920555	Sum of GTIs [s]
caldsver	4.6.6	&#160	ontime7	7060.7753920555	Sum of GTIs [s]
date	2015-01-31T05:48:22	Date and time of file creation	l1events	12110	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	12110
rejected events	5816
rejected %	48%

	<b>ccd 7</b>
grade 0 events	882
	7%
grade 1 events	9
	0%
grade 2 events	1322
	10%
grade 3 events	727
	6%
grade 4 events	643
	5%
grade 5 events	1186
	9%
grade 6 events	2721
	22%
grade 7 events	4620
	38%

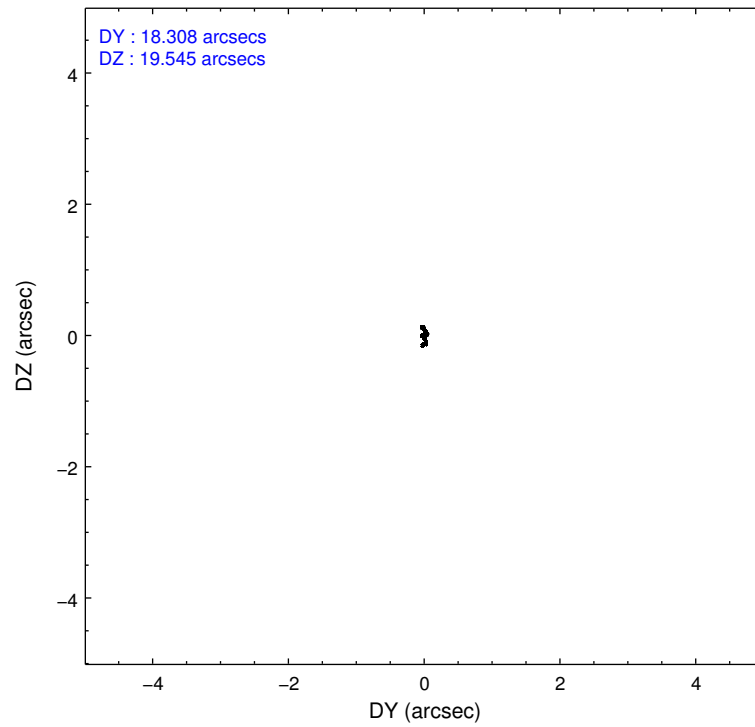
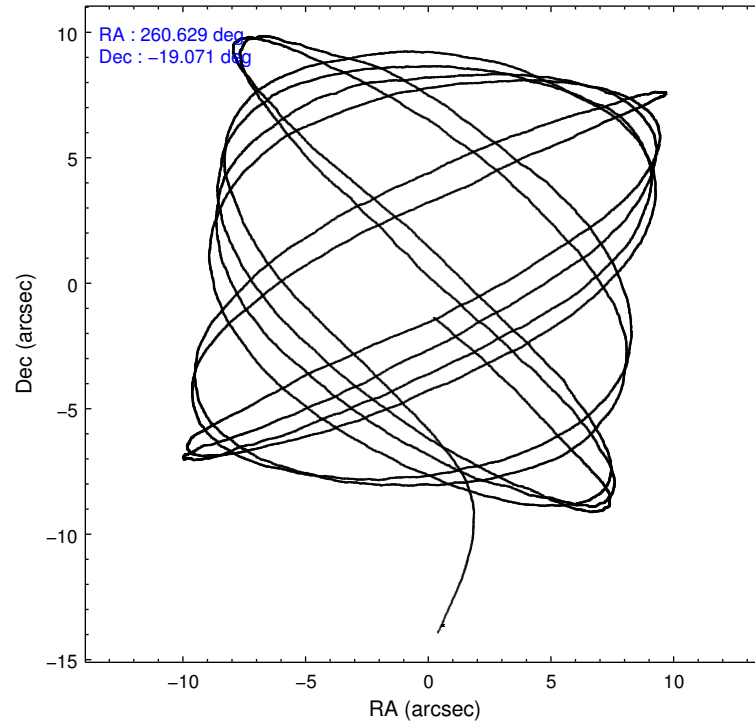


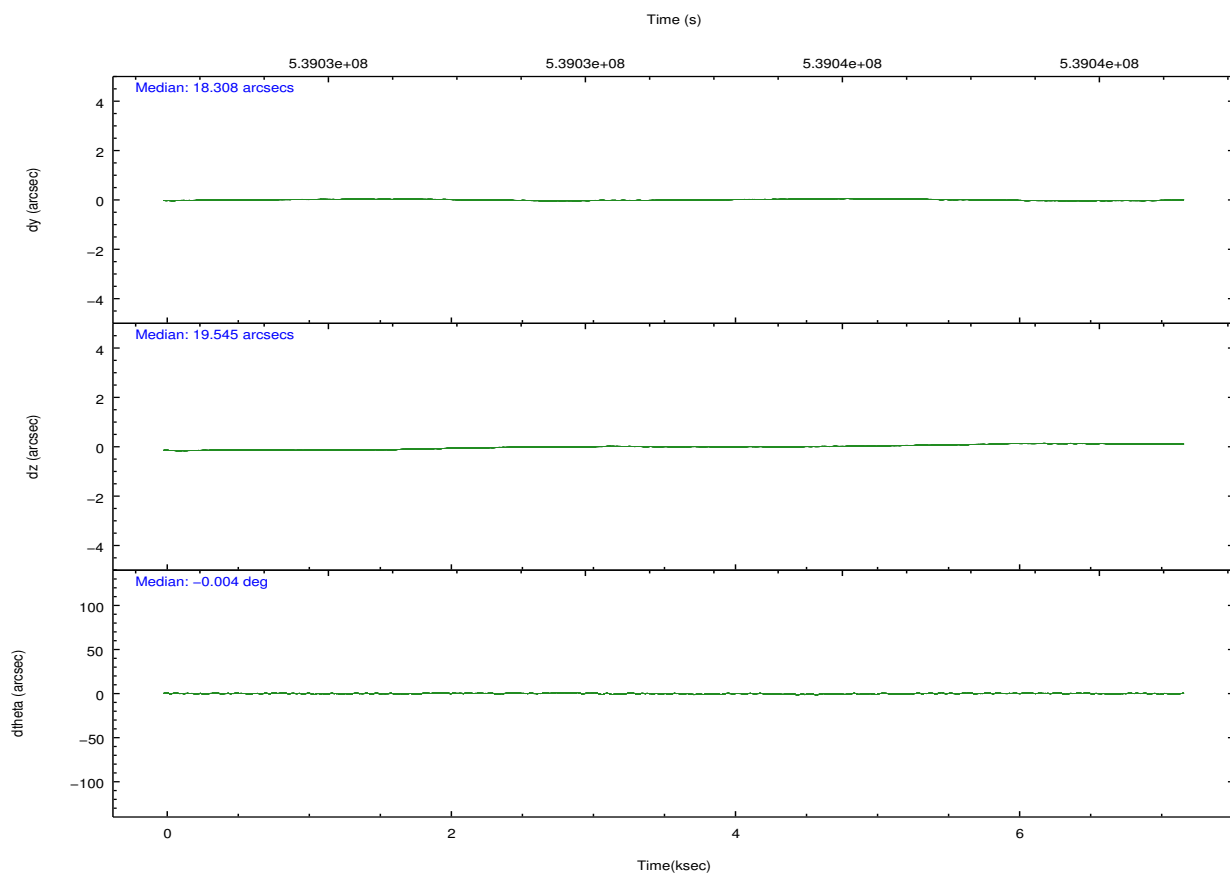
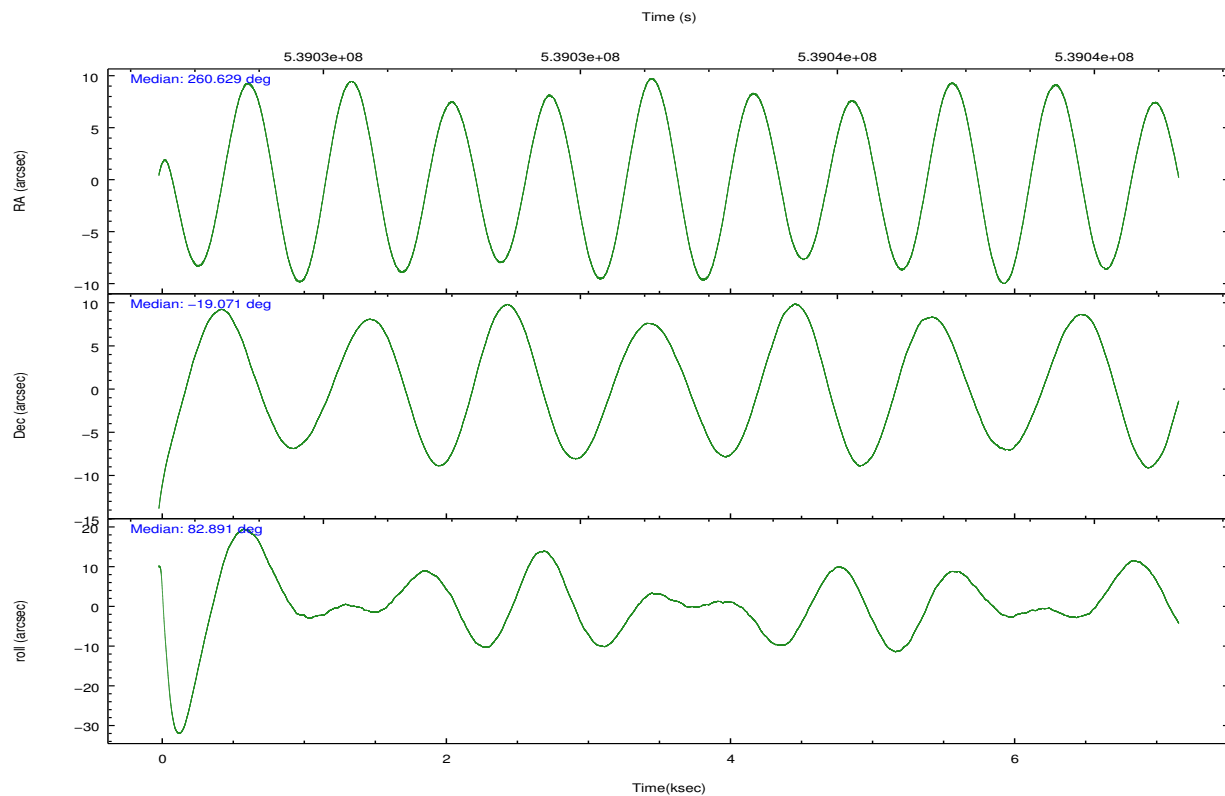
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	260.640818	260.6291723578846
[deg] Pointing Dec	-19.095890	-19.07078939489248
[deg] Pointing Roll	82.744440	82.89734278878896
[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)	539031260.184000	539029832.33306
Observation start date	2015-01-30T18:53:13	2015-01-30T18:30:32
[s] Observation end time (MET)	539038260.184000	539039214.1585799
Observation end date	2015-01-30T20:49:53	2015-01-30T21:06:54
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	385	385
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.8

## 2.3 Aspect



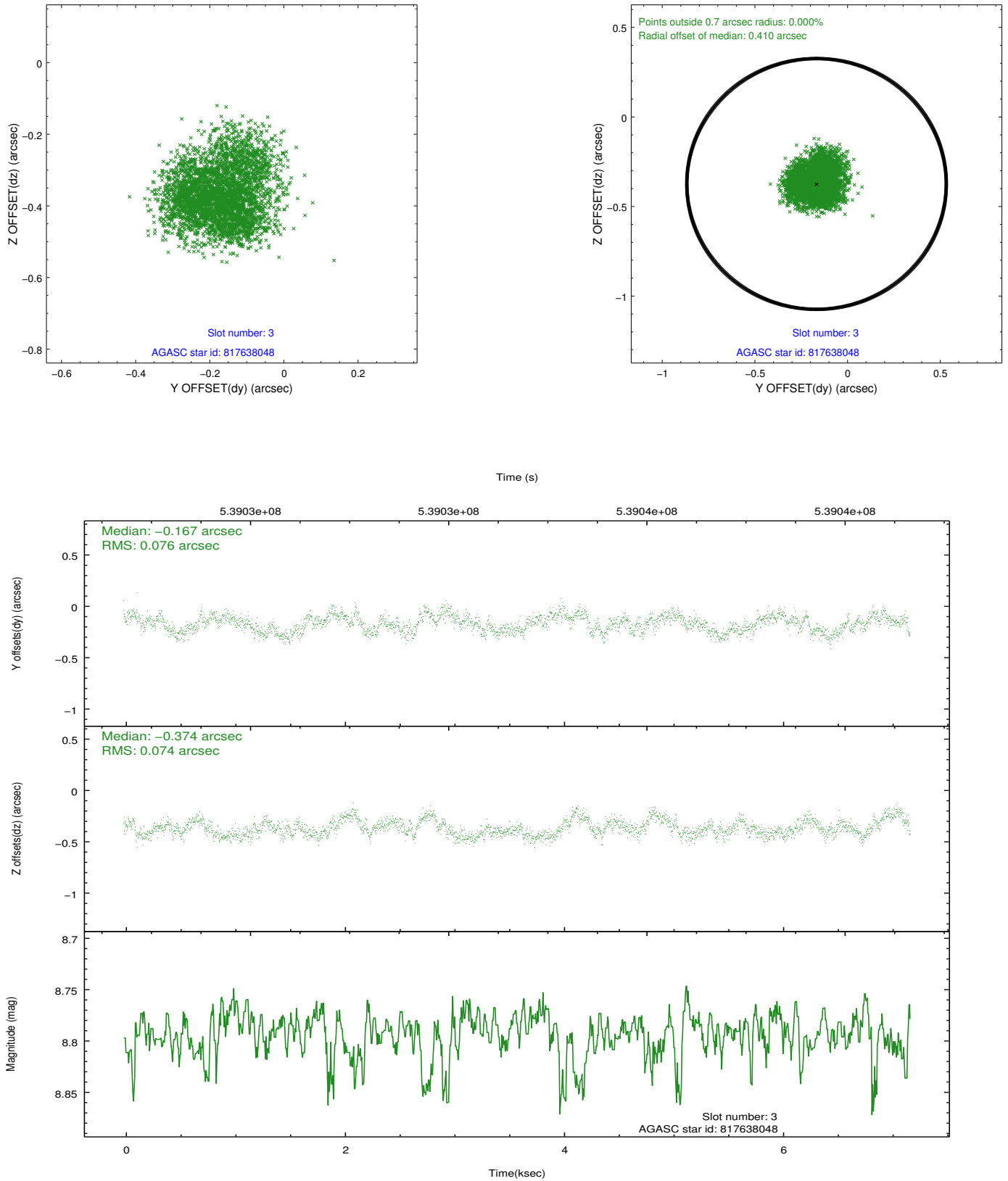


### Slot Statistics

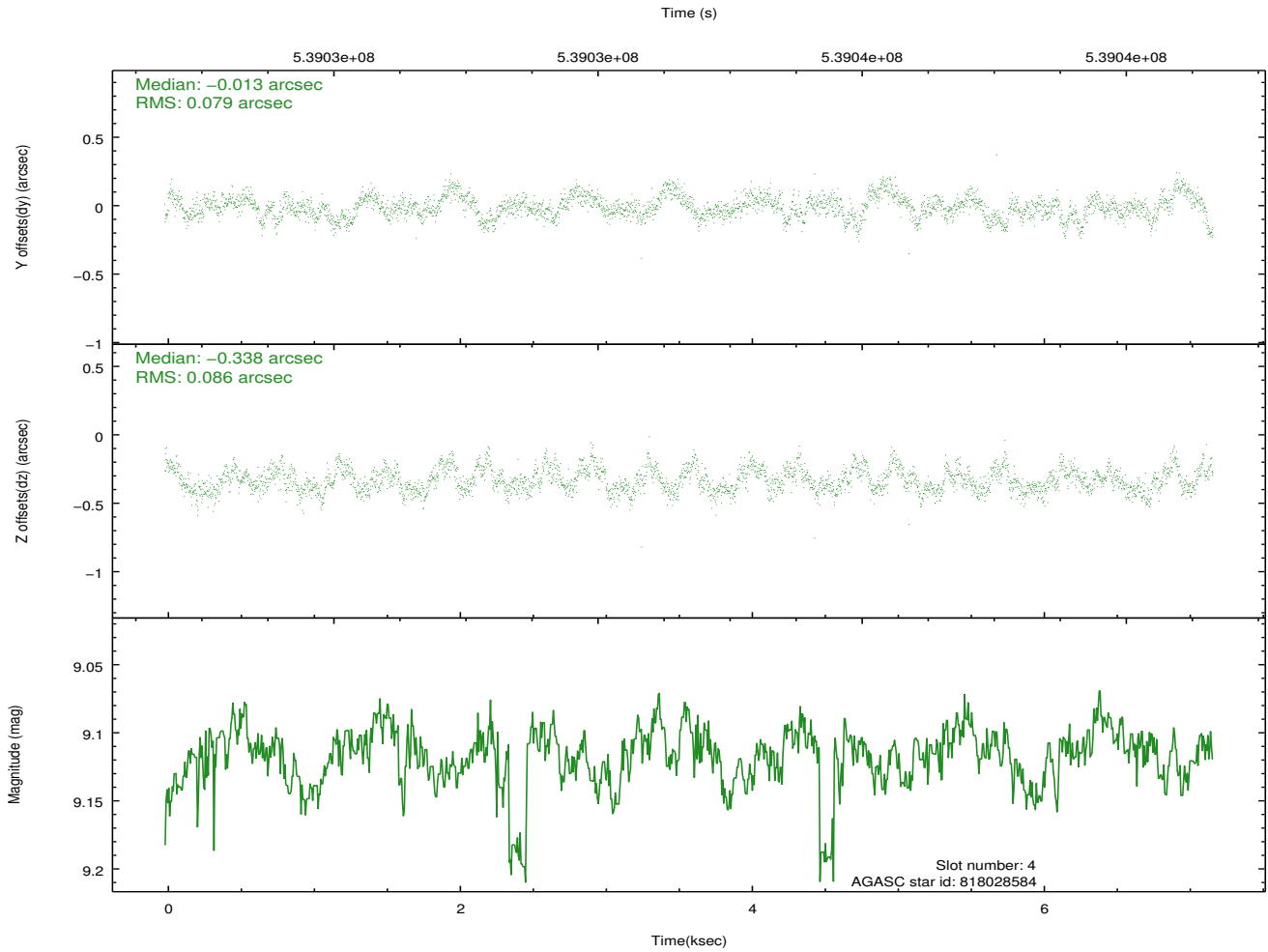
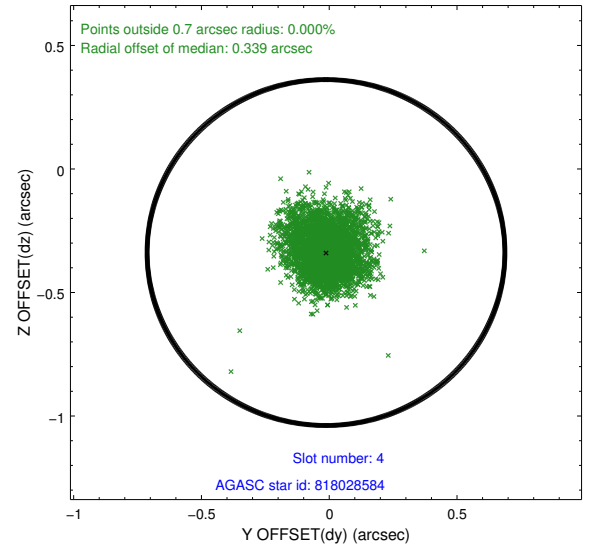
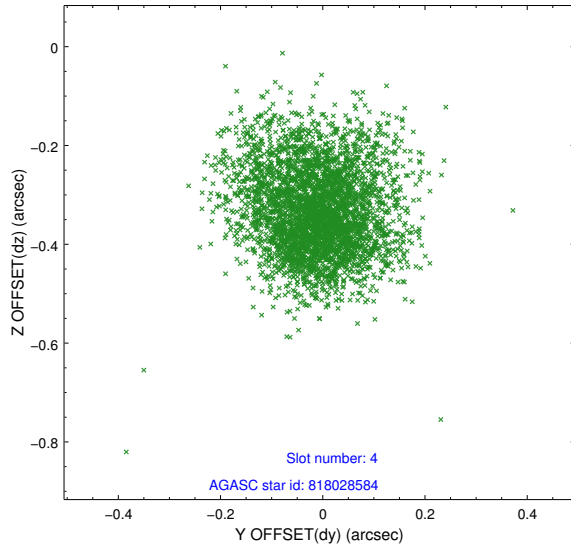
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.91	1750	-0.115	-0.049	0.007	0.012	0.000000	0.000000	-771.47	-1741.09
1	FID		ACIS-S-4	7.00	1751	0.339	0.069	0.005	0.009	0.000000	0.000000	2141.88	166.69
2	FID		ACIS-S-5	7.01	1751	-0.255	-0.011	0.007	0.012	0.000000	0.000000	-1823.44	161.17
3	GUIDE	used	817638048	8.79	3502	-0.167	-0.374	0.115	0.176	260.403238	-18.657756	1462.03	1002.65
4	GUIDE	used	818028584	9.12	3499	-0.013	-0.338	0.123	0.204	259.974300	-19.091623	-275.05	2251.31
5	GUIDE	used	818152760	9.26	3503	0.019	0.225	0.302	0.423	261.119059	-18.847179	1092.27	-1502.60
6	GUIDE	used	818152984	9.09	3499	0.269	0.119	0.116	0.178	260.544262	-19.517995	-1548.41	132.48
7	GUIDE	used	818155032	8.63	3500	-0.091	0.358	0.108	0.184	261.217663	-18.859223	1089.91	-1841.86

## 2.4 Star Slots

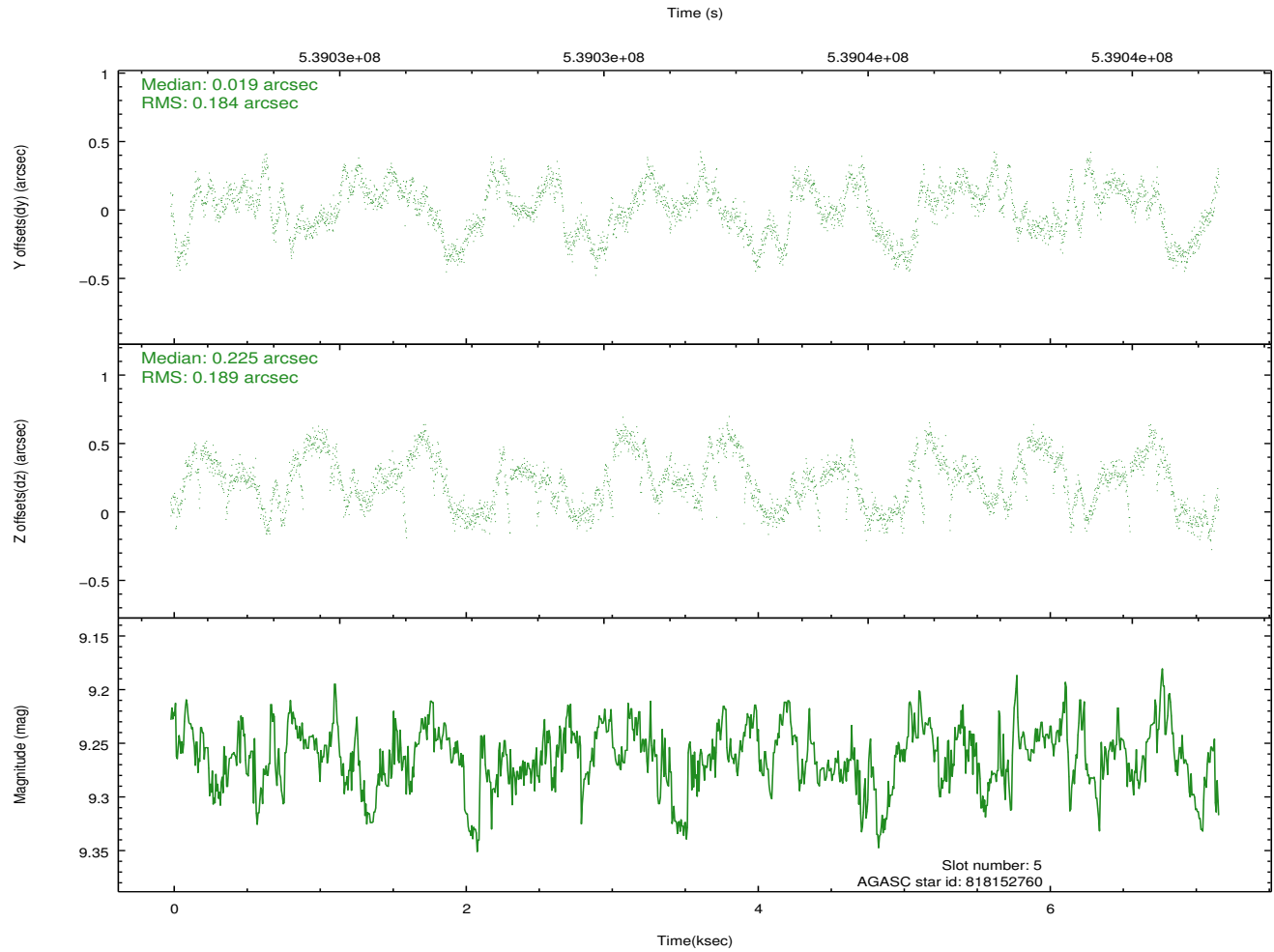
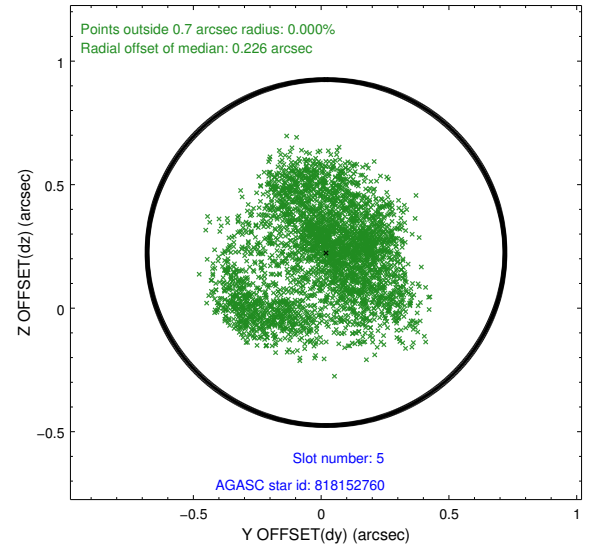
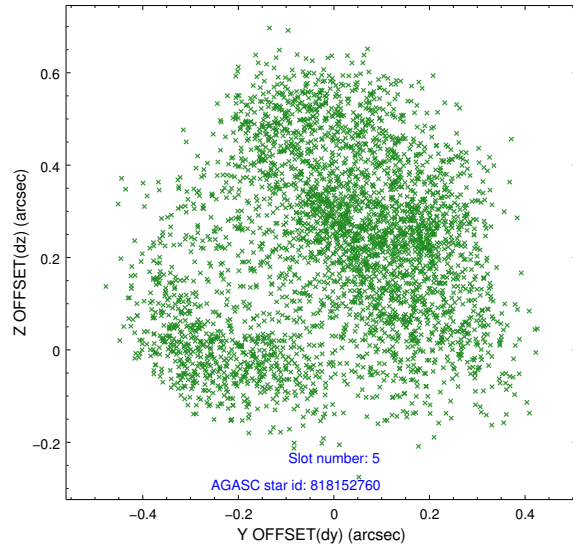
### 2.4.1 Slot 3



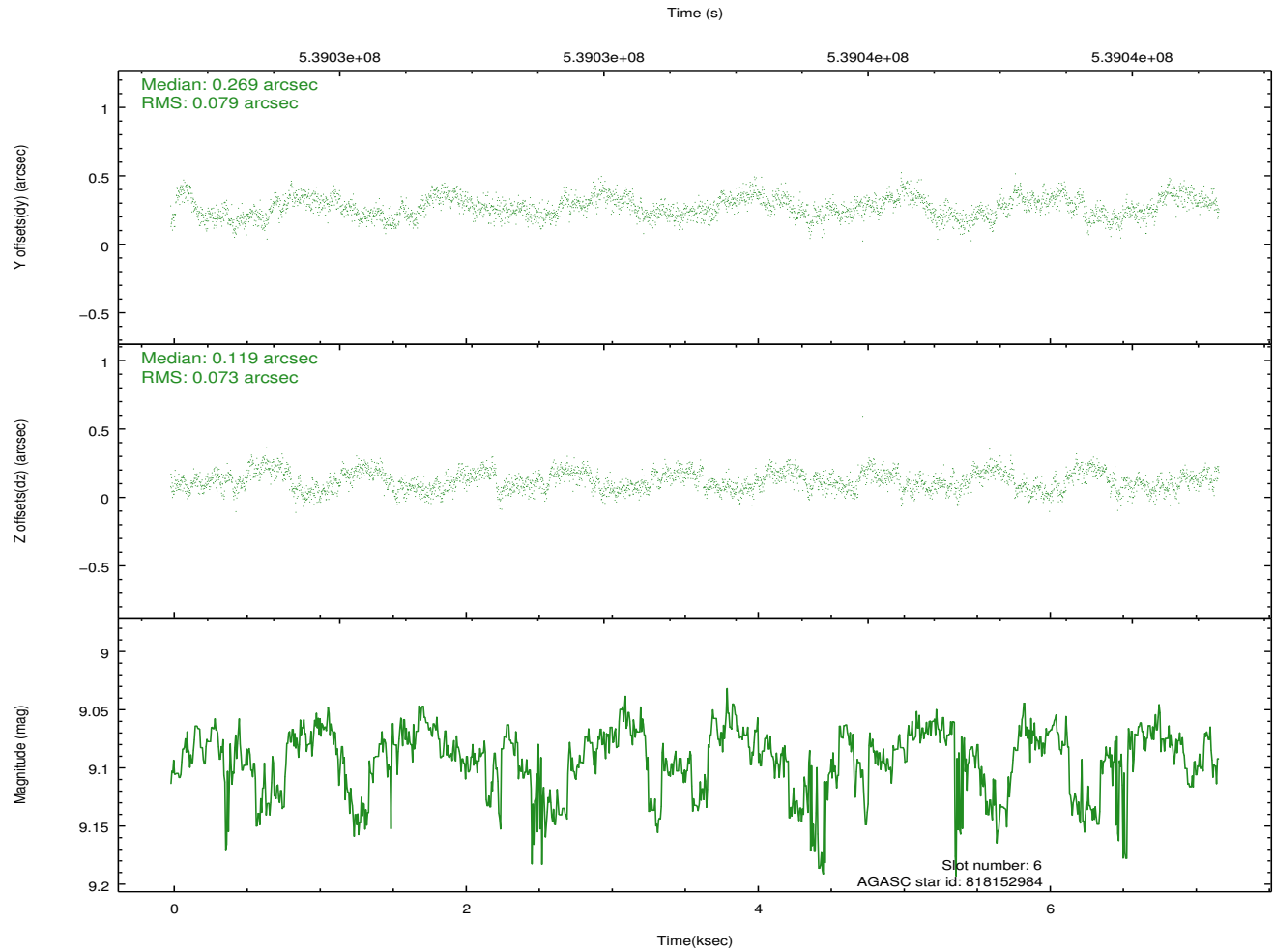
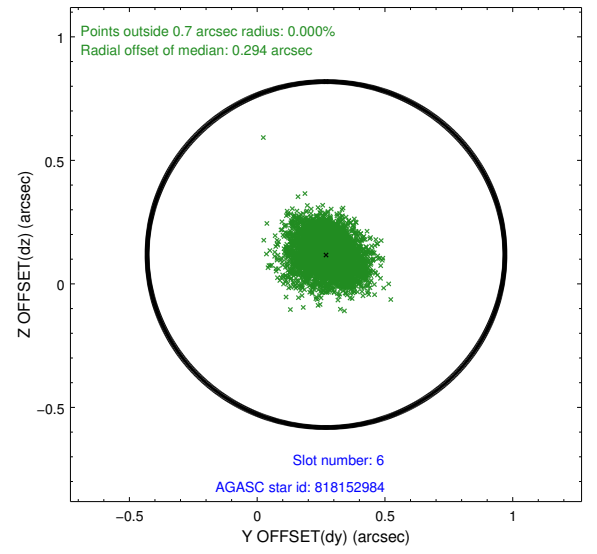
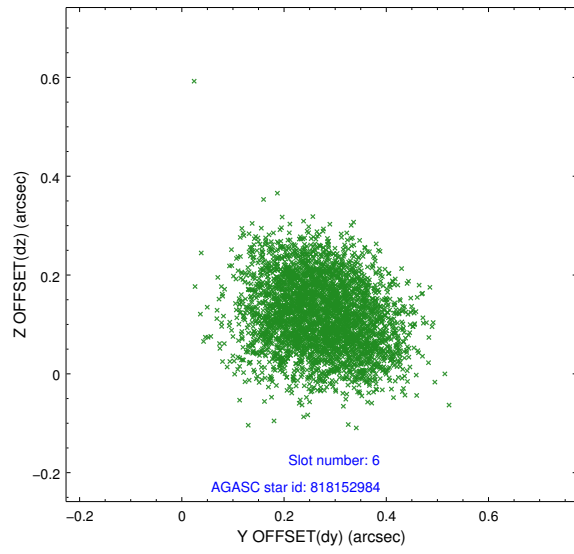
## 2.4.2 Slot 4



### 2.4.3 Slot 5

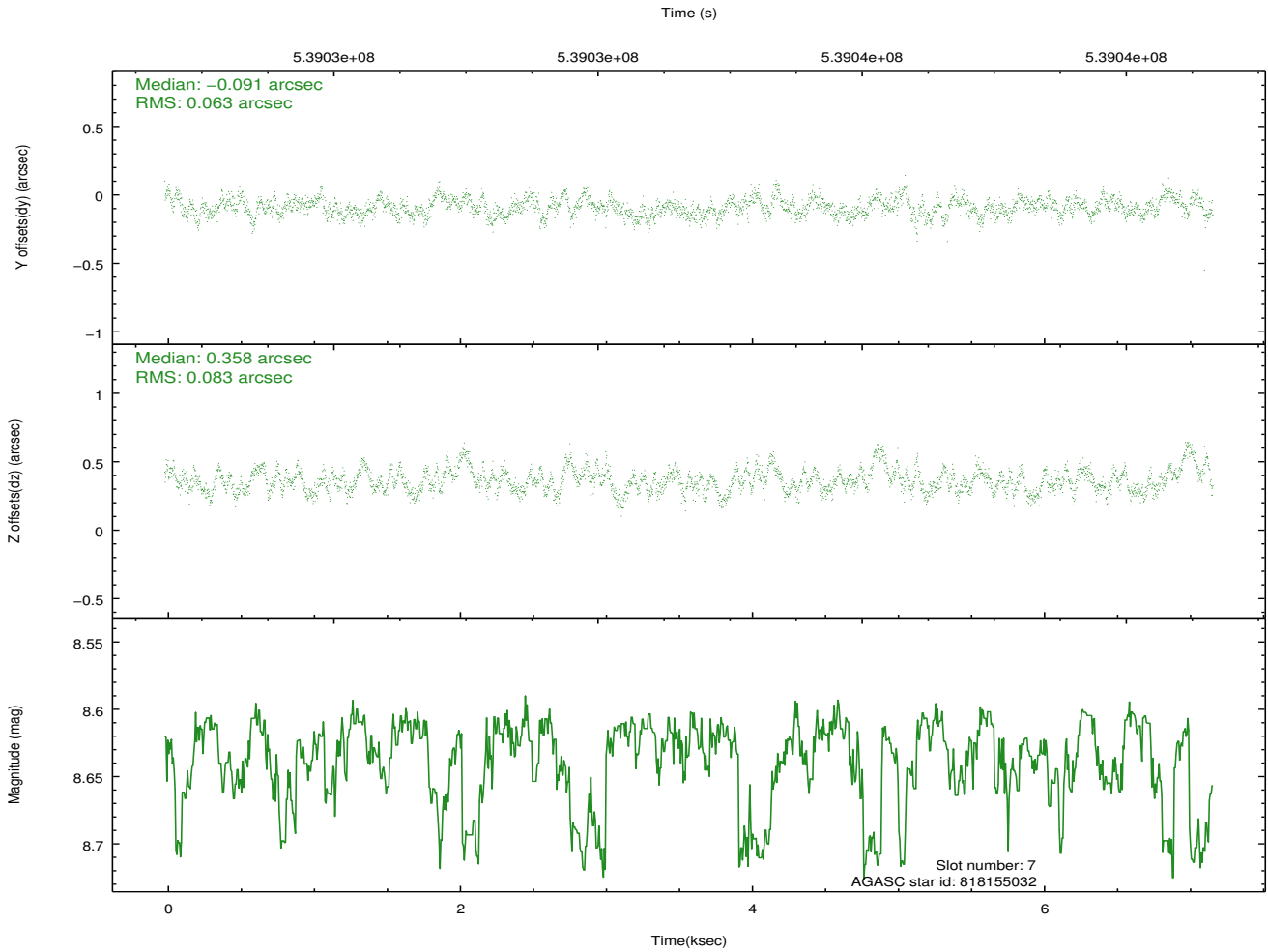
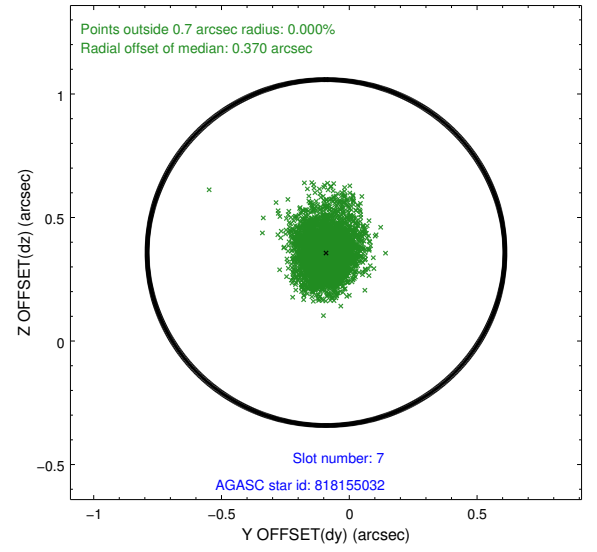
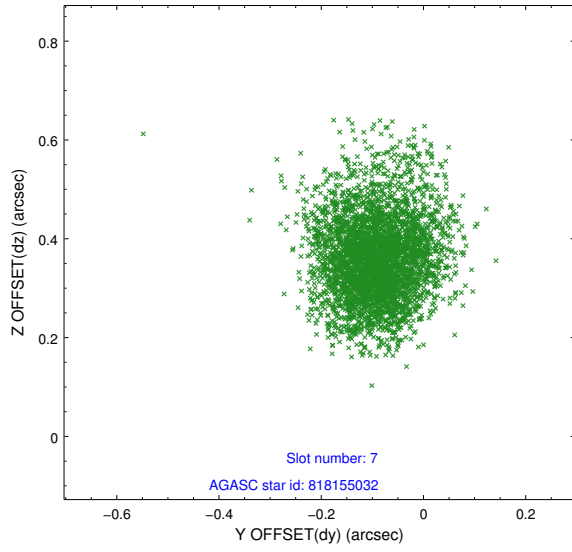


## 2.4.4 Slot 6



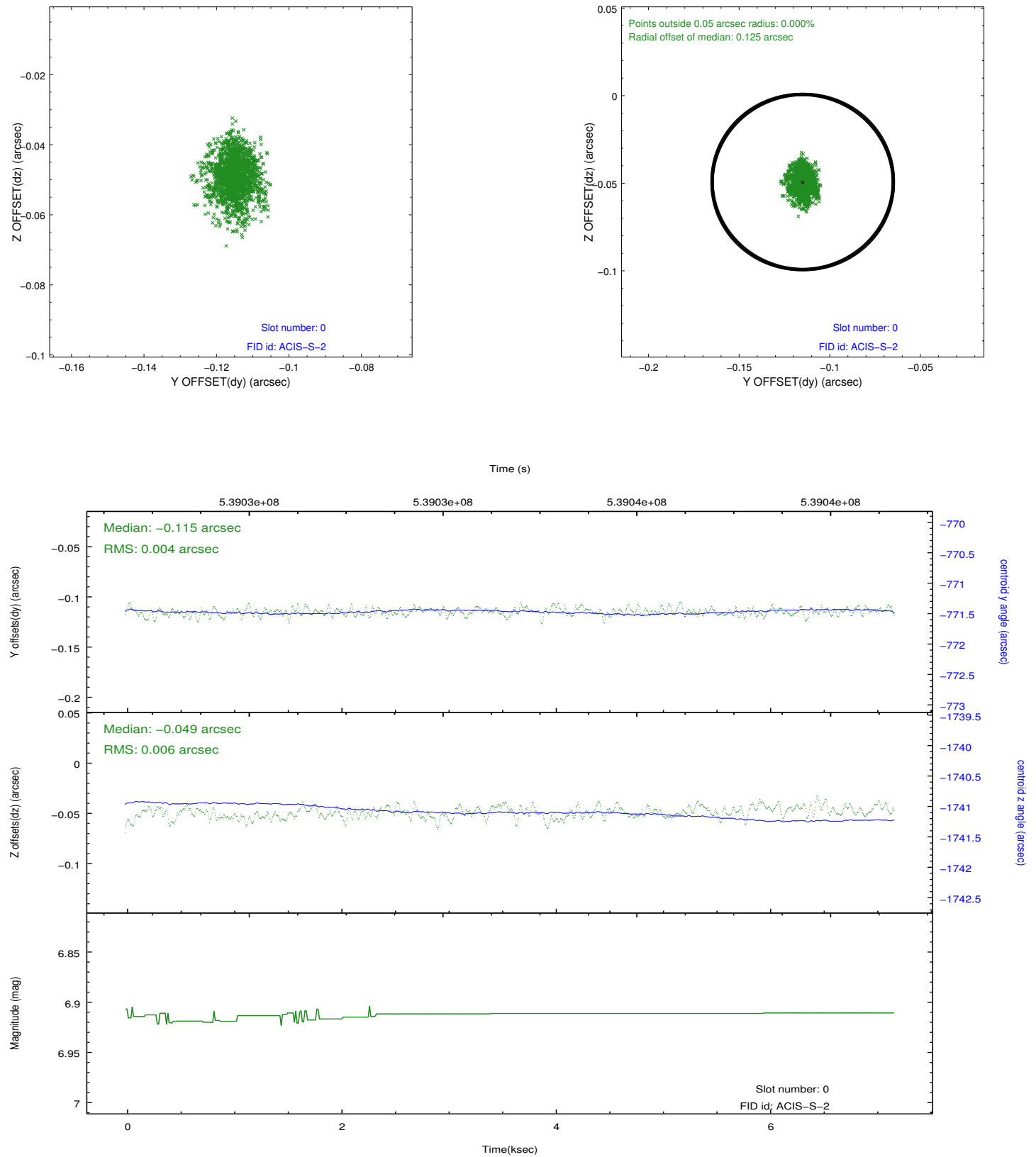


## 2.4.5 Slot 7

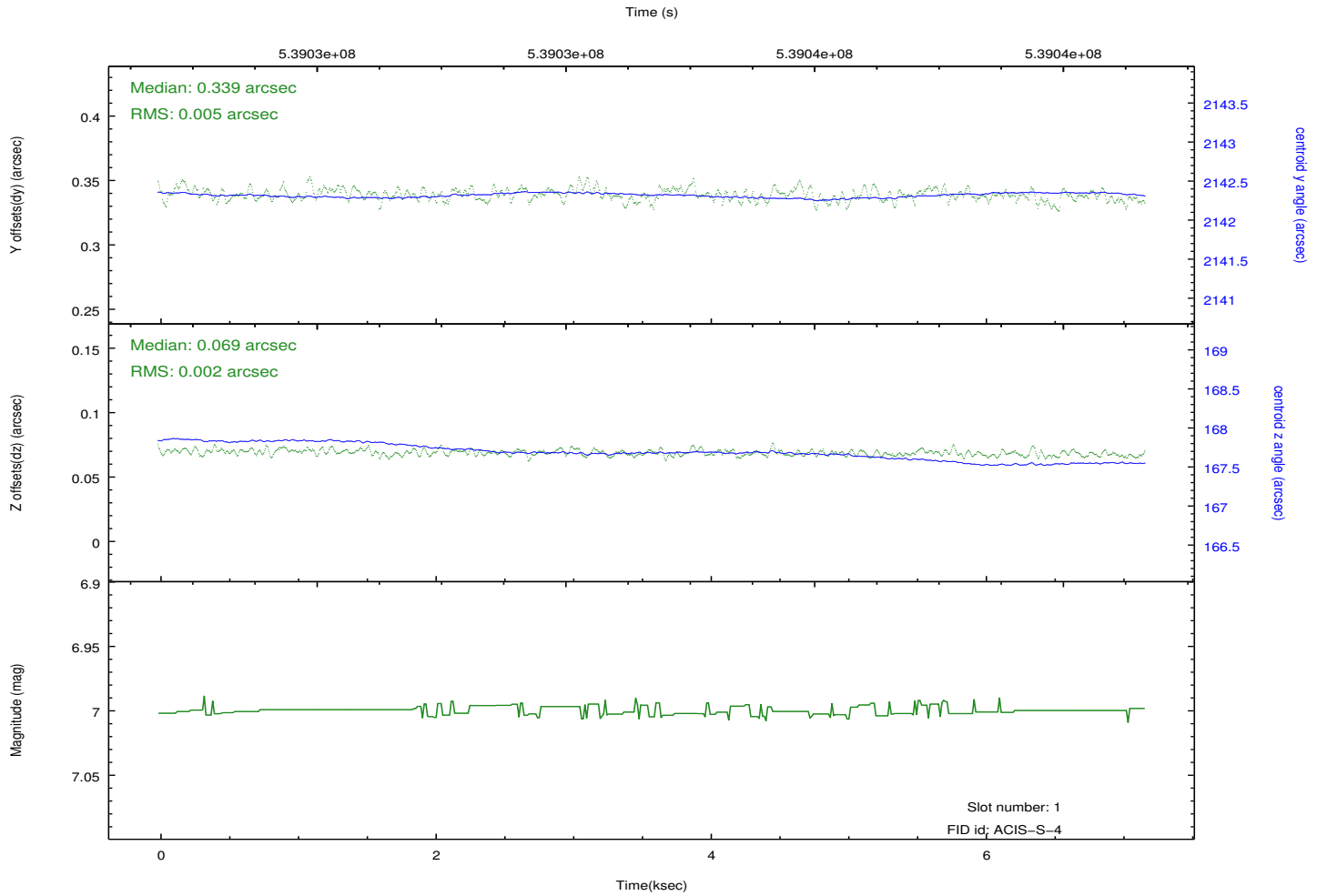
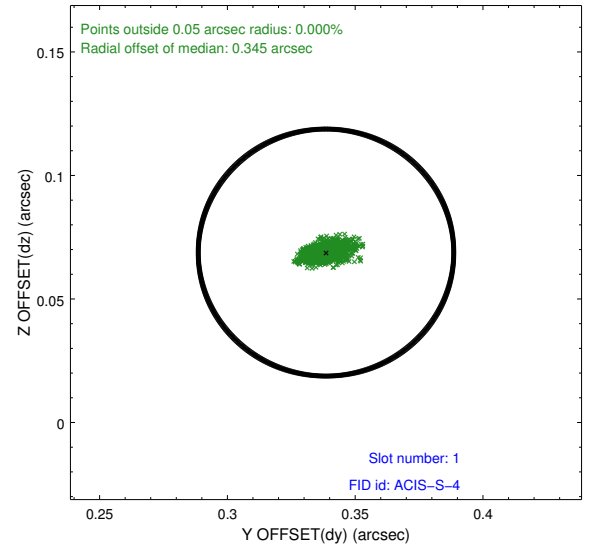
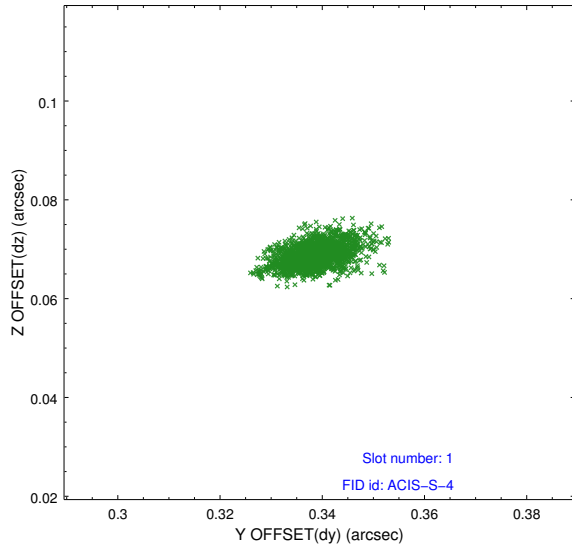


## 2.5 FID Slots

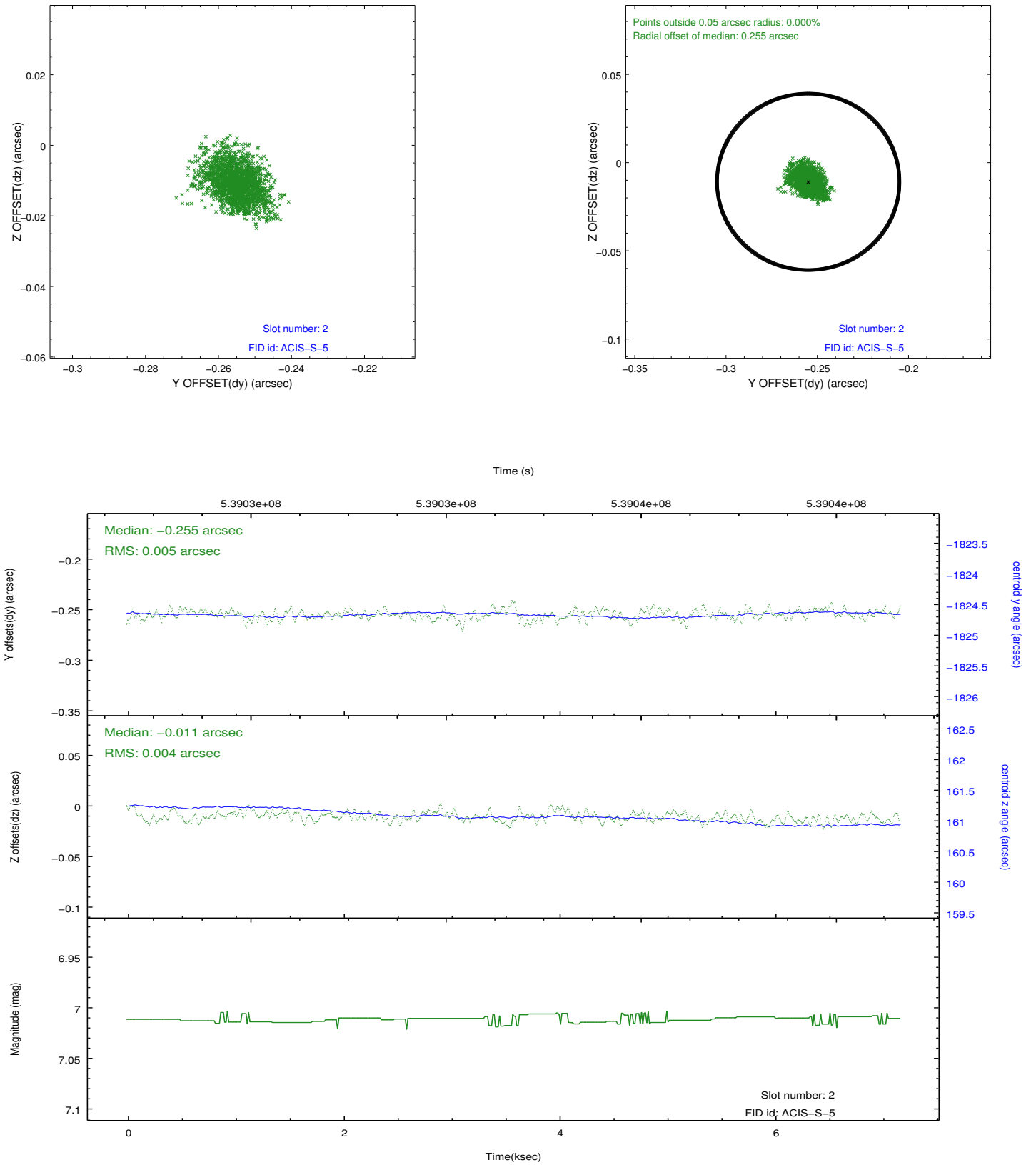
### 2.5.1 Slot 0



## 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)	2015.01.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.0607753920555

### A.2 Comments