

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 17179 - L2 Version 2  
Chandra X-Ray Center

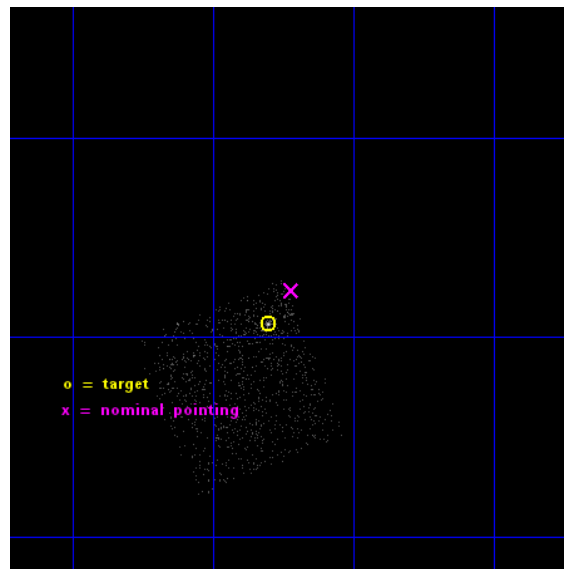
L2 Processing Date : Apr 27 2015

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# 1 Front

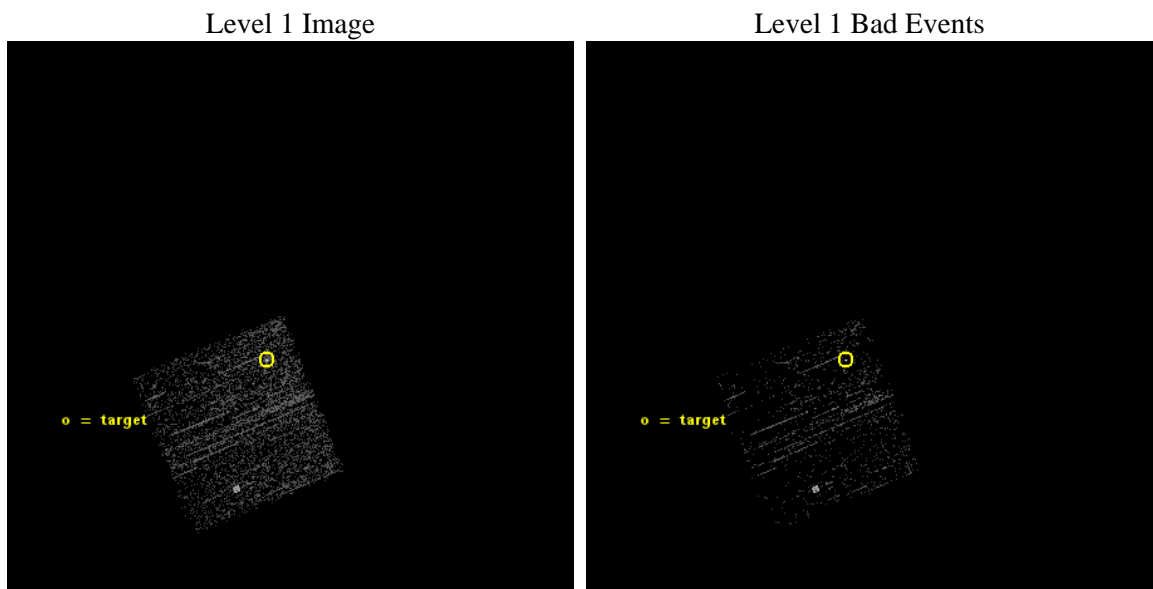
seq_num	801462	Sequence number
obs_id	17179	Observation id
title	UNMASKING GALAXY CLUSTERS MASQUERADING AS QUASARS	Proposal title
observer	Dr Megan Donahue	Principal investigator
object	RXCJ144248.5+120042	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	220.70125	Observer's specified target RA [deg]
dec_targ	12.011194	Observer's specified target Dec [deg]
ra_nom	220.68021934271	Nominal RA [deg]
dec_nom	12.039242008038	Nominal Dec [deg]
roll_nom	158.21325263374	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2118.0	Sum of GTIs [s]
livetime	2089.4167784705	Livetime [s]
ontime3	2118.0	Sum of GTIs [s]
l2events	1762	Number of level 2 events



## 2 OBI

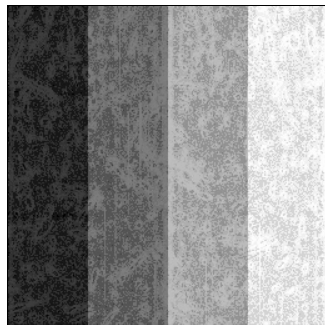
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 3



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	2118.0	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime3	2118.0	Sum of GTIs [s]
date	2015-04-27T21:15:36	Date and time of file creation	l1events	10446	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

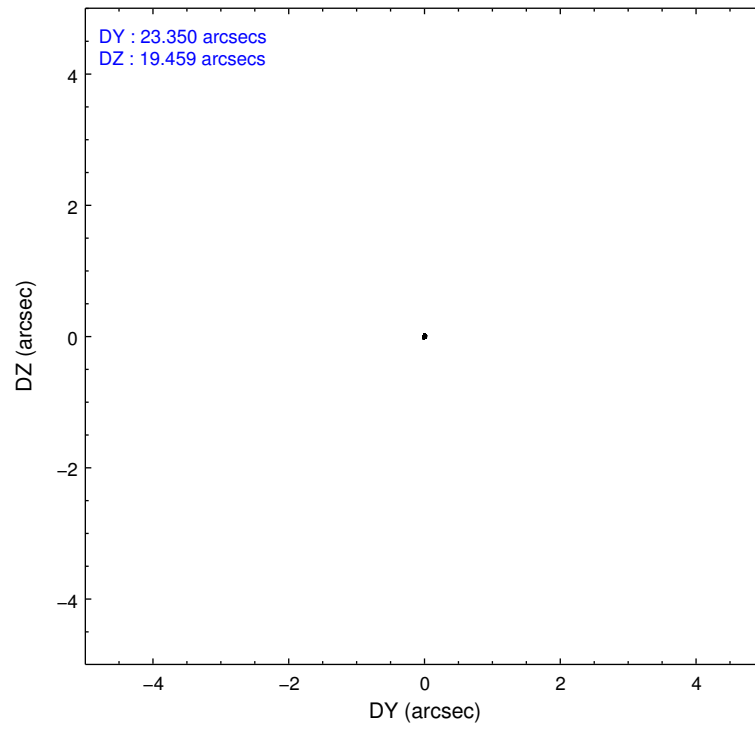
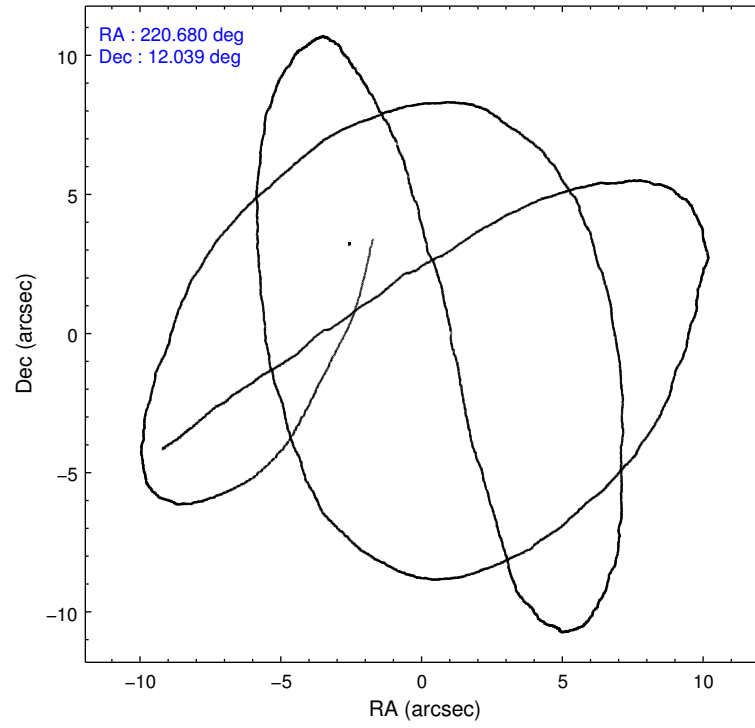
	<b>ccd 3</b>
level 1 events	10446
rejected events	8585
rejected %	82%

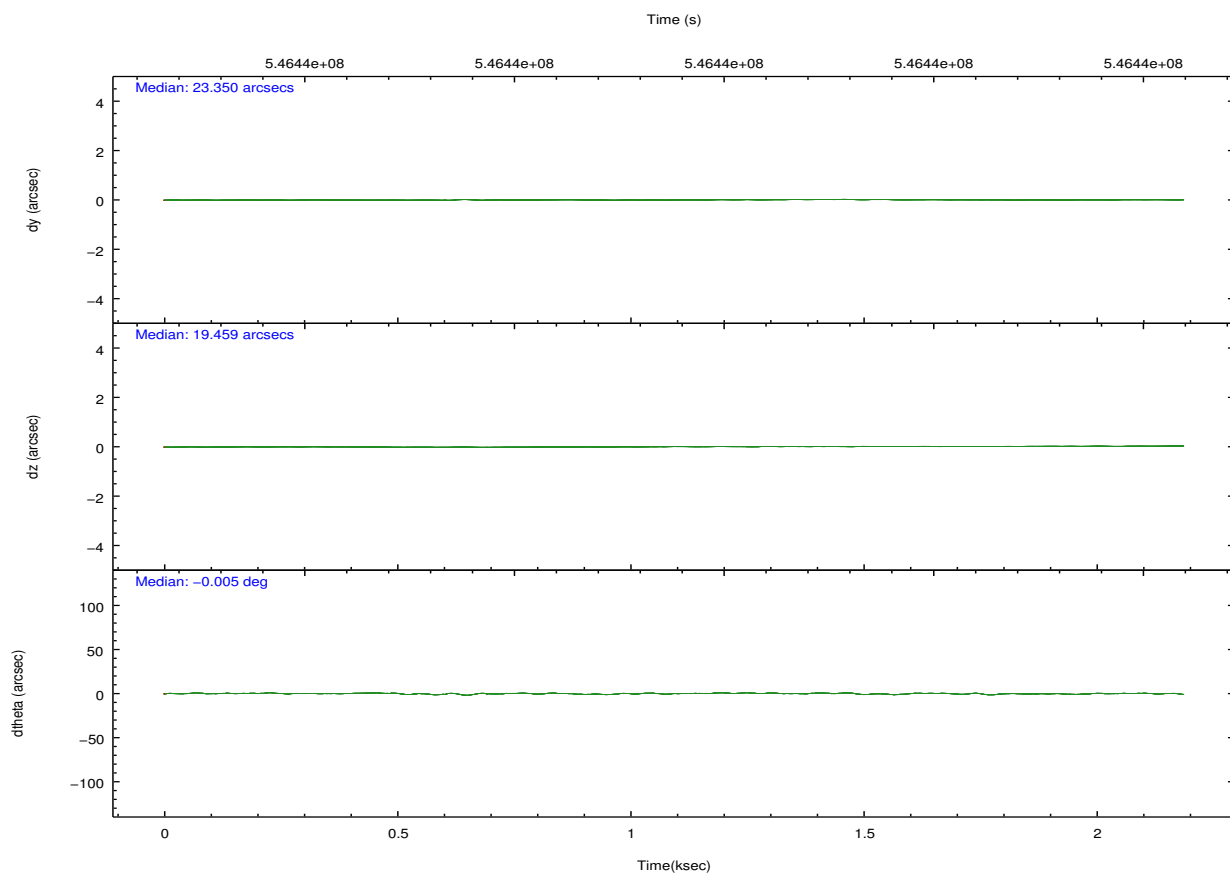
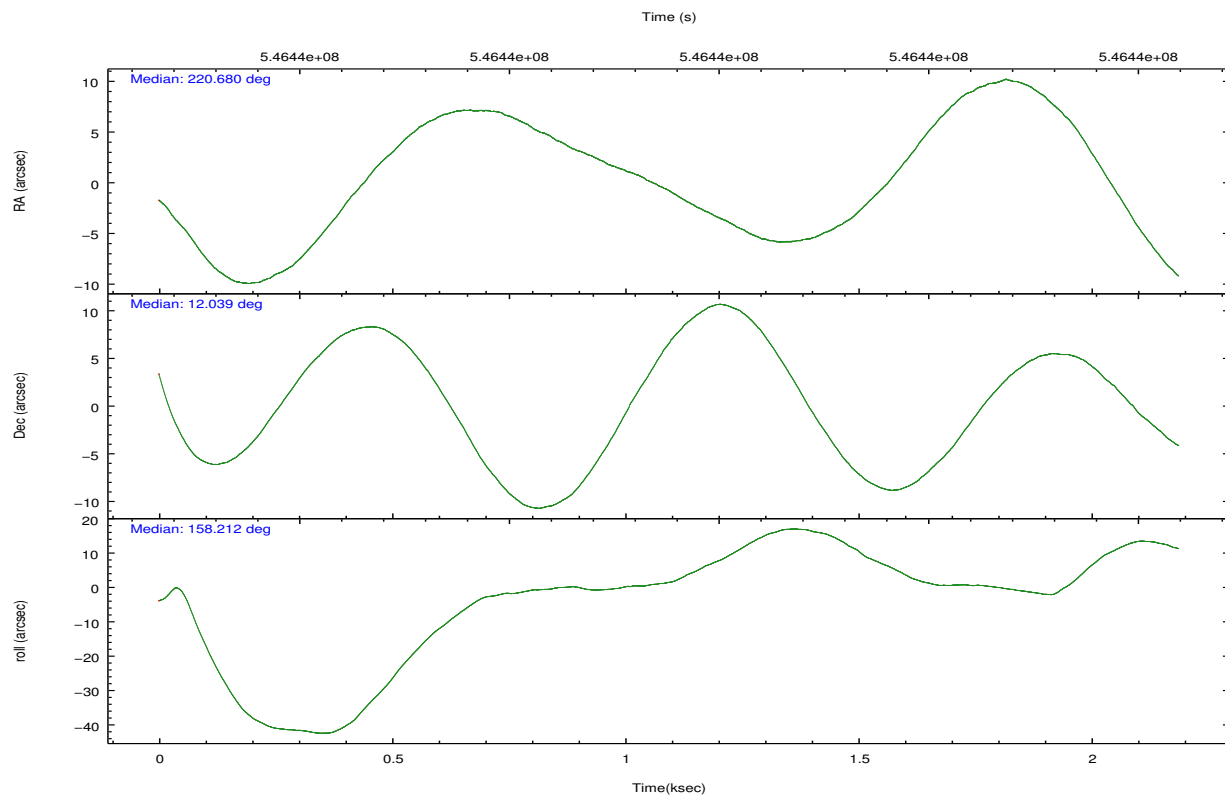
	<b>ccd 3</b>
grade 0 events	876
	8%
grade 1 events	824
	7%
grade 2 events	364
	3%
grade 3 events	157
	1%
grade 4 events	174
	1%
grade 5 events	537
	5%
grade 6 events	292
	2%
grade 7 events	7222
	69%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3	ACIS-3	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	220.708263	220.6802193427098	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.043291	12.03924200803829	Alternating exposures requested	N	N
[deg] Pointing Roll	157.998532	158.2132526337427	[s] Primary exposure time	0.000000	3
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	546441977.184000	546440741.11017			
Observation start date	2015-04-26T13:25:10	2015-04-26T13:05:41			
[s] Observation end time (MET)	546443977.184000	546444537.19788			
Observation end date	2015-04-26T13:58:30	2015-04-26T14:08:57			
Read mode	TIMED	TIMED			

## 2.3 Aspect





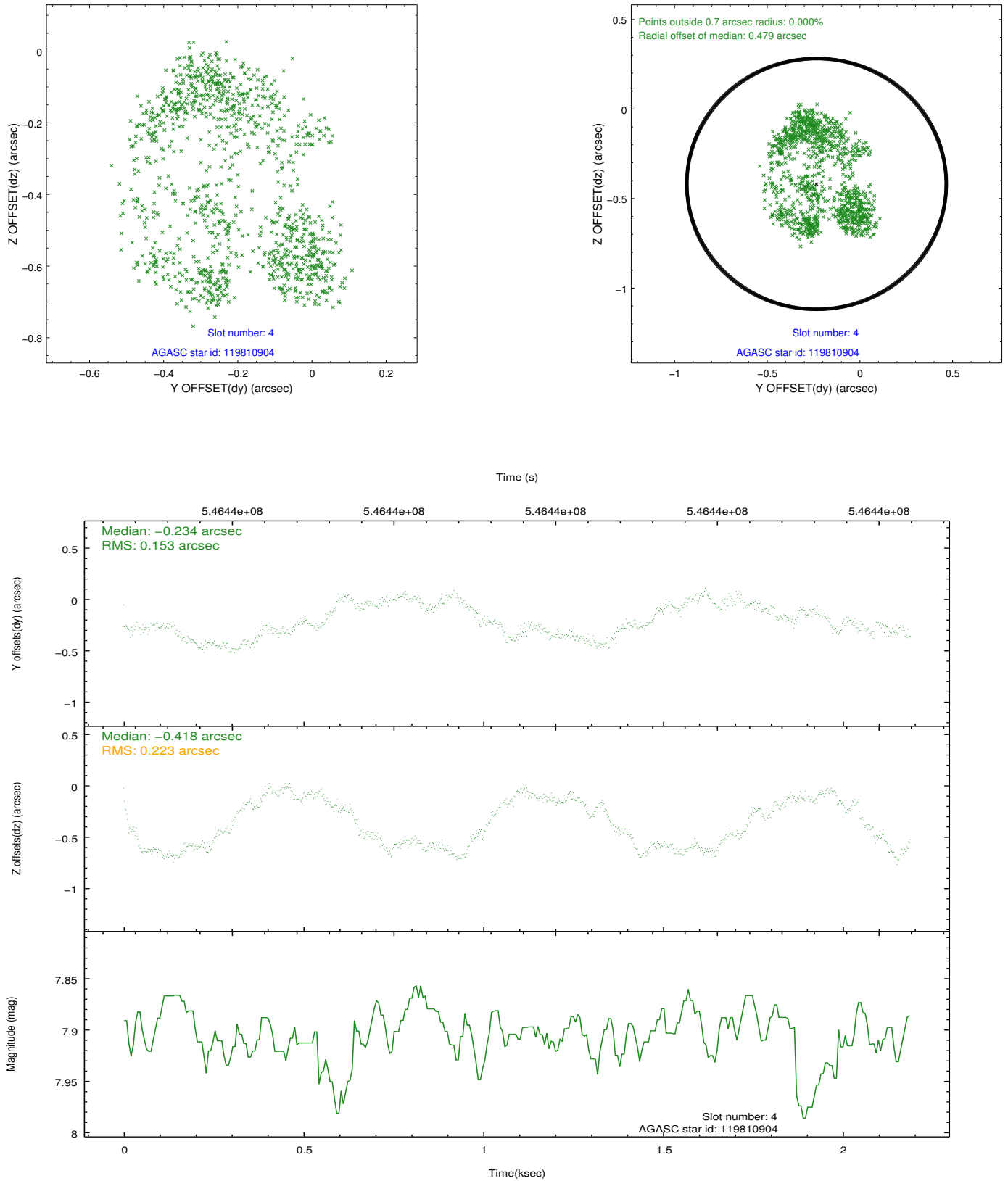
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.18	534	0.066	-0.014	0.007	0.012	0.000000	0.000000	915.99	-843.14
1	FID		ACIS-I-5	7.17	534	-0.354	0.032	0.007	0.011	0.000000	0.000000	-1831.01	1052.75
2	FID		ACIS-I-6	7.18	534	0.197	0.051	0.008	0.014	0.000000	0.000000	378.27	1700.76
3	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
4	GUIDE	used	119810904	7.90	1068	-0.234	-0.418	0.301	0.377	220.280633	12.109988	1485.76	339.98
5	GUIDE	used	119811968	9.50	1066	-0.009	-0.023	0.172	0.276	220.323303	12.325239	1637.02	-433.30
6	GUIDE	used	120200320	10.05	1058	0.331	0.353	0.322	0.480	221.015643	12.561401	-299.70	-2134.55
7	GUIDE	used	120203656	9.46	1066	-0.090	0.086	0.182	0.308	220.472318	12.627264	1556.19	-1640.81

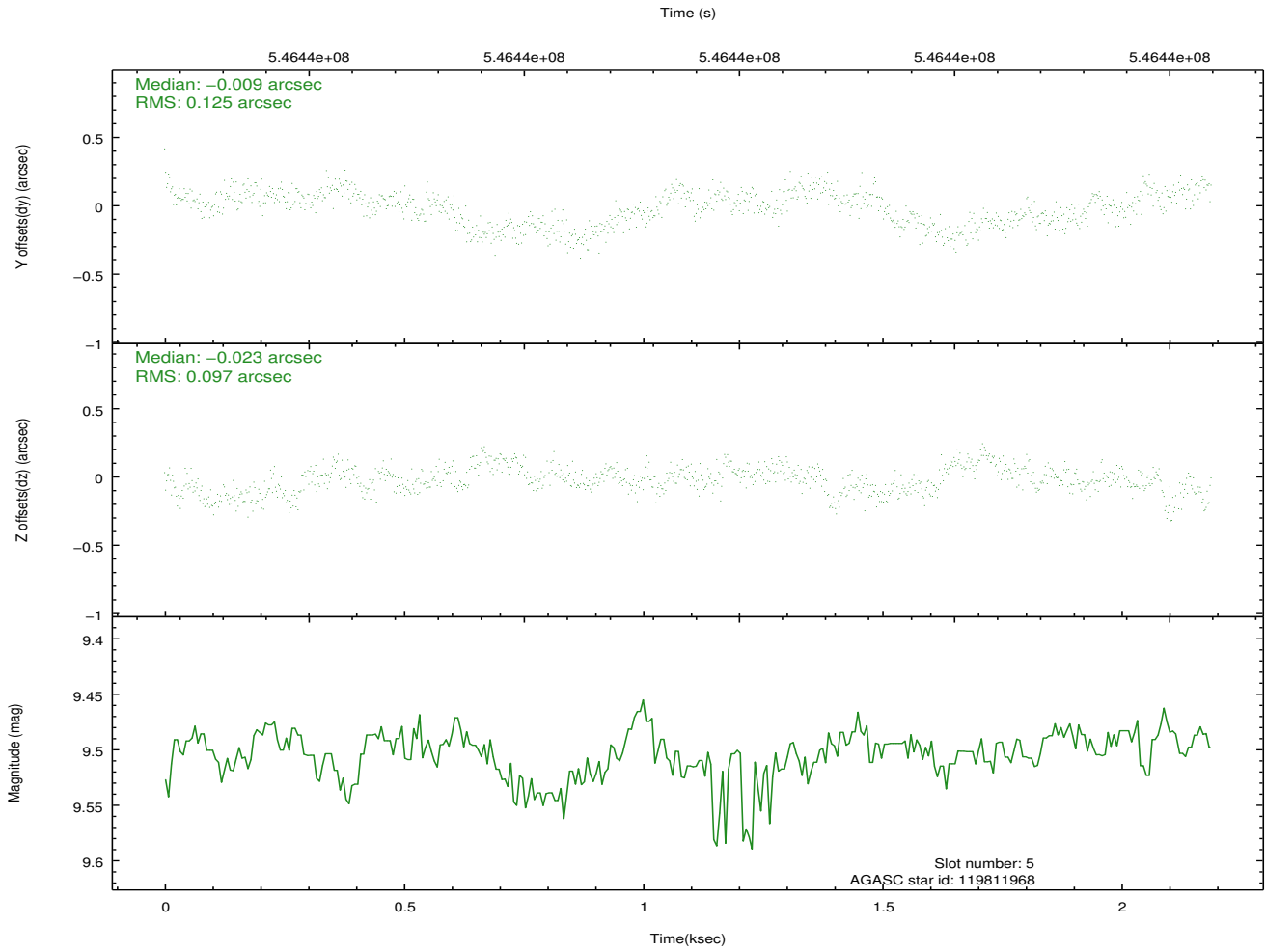
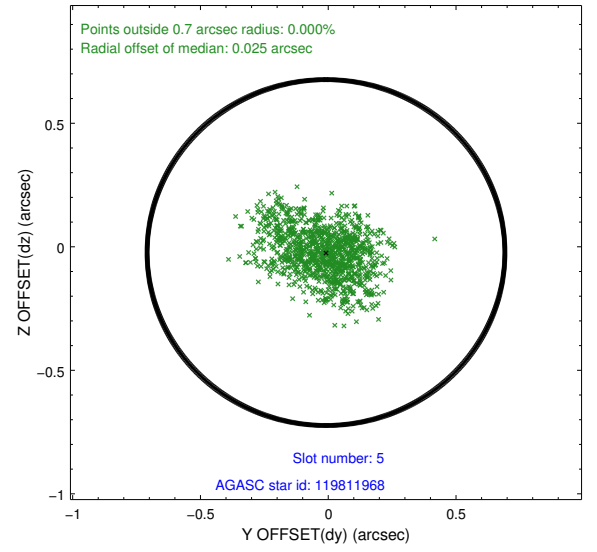
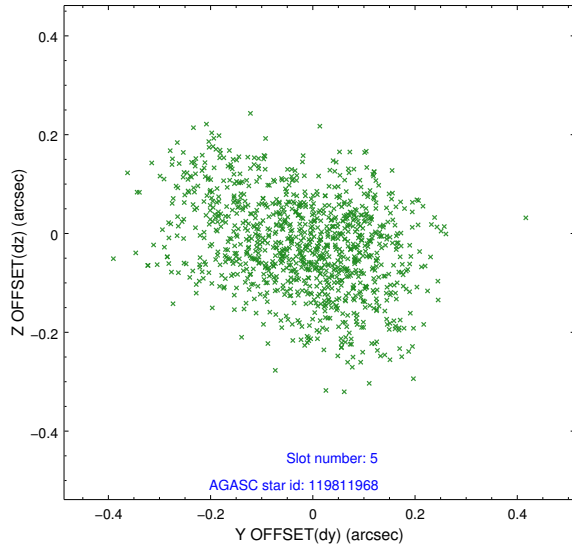


## 2.4 Star Slots

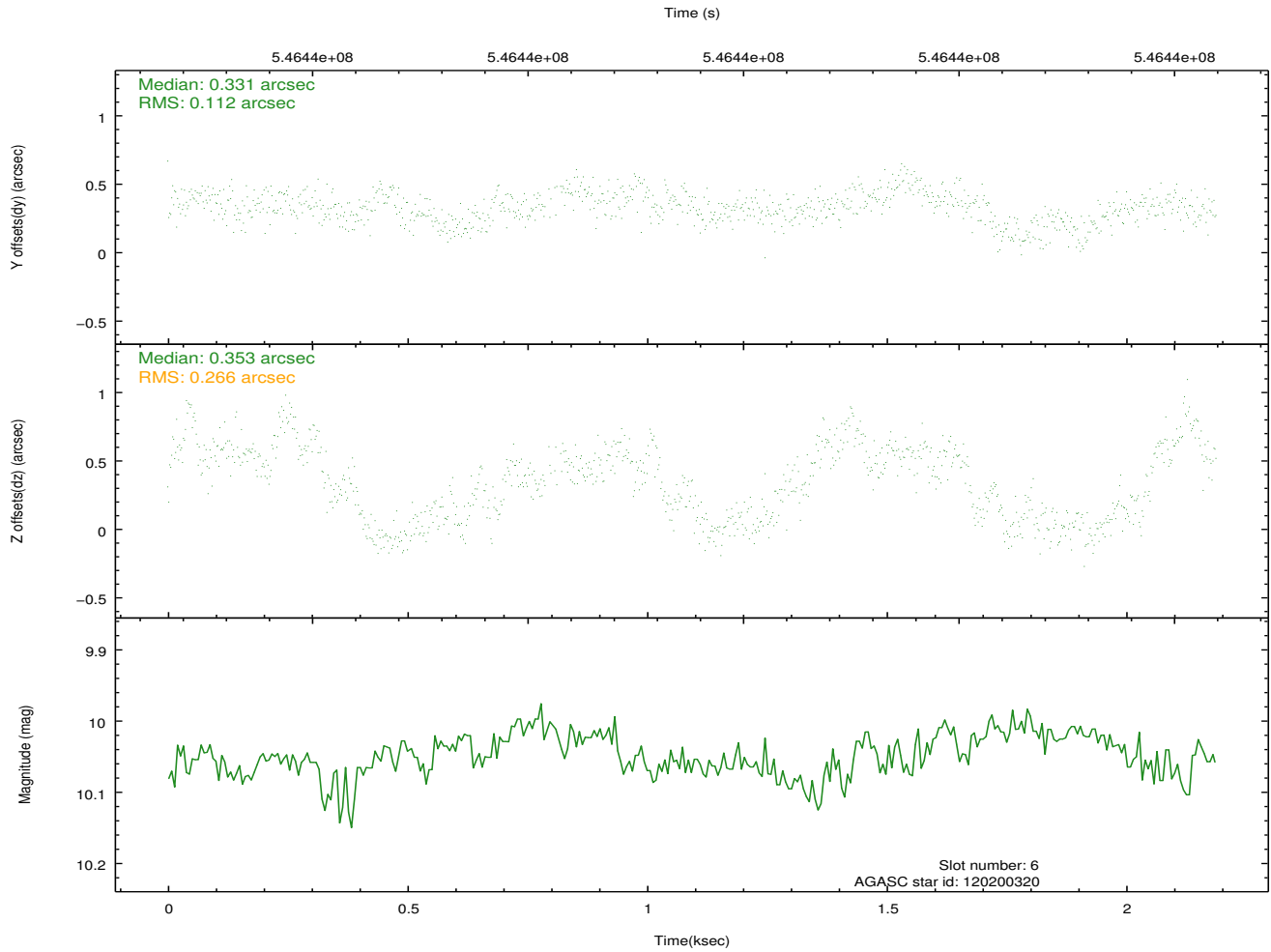
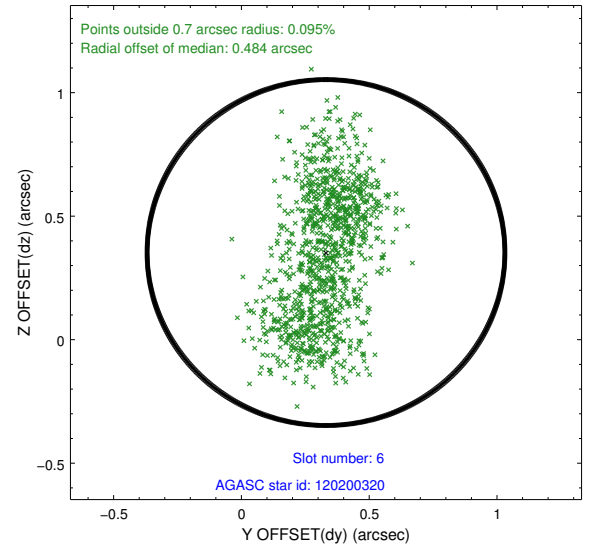
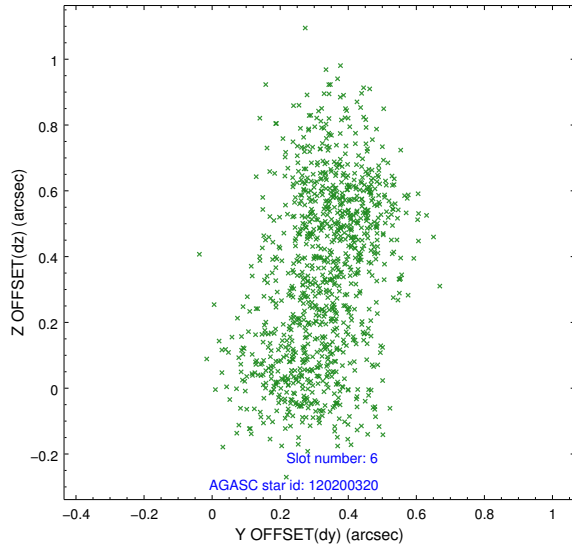
### 2.4.1 Slot 4



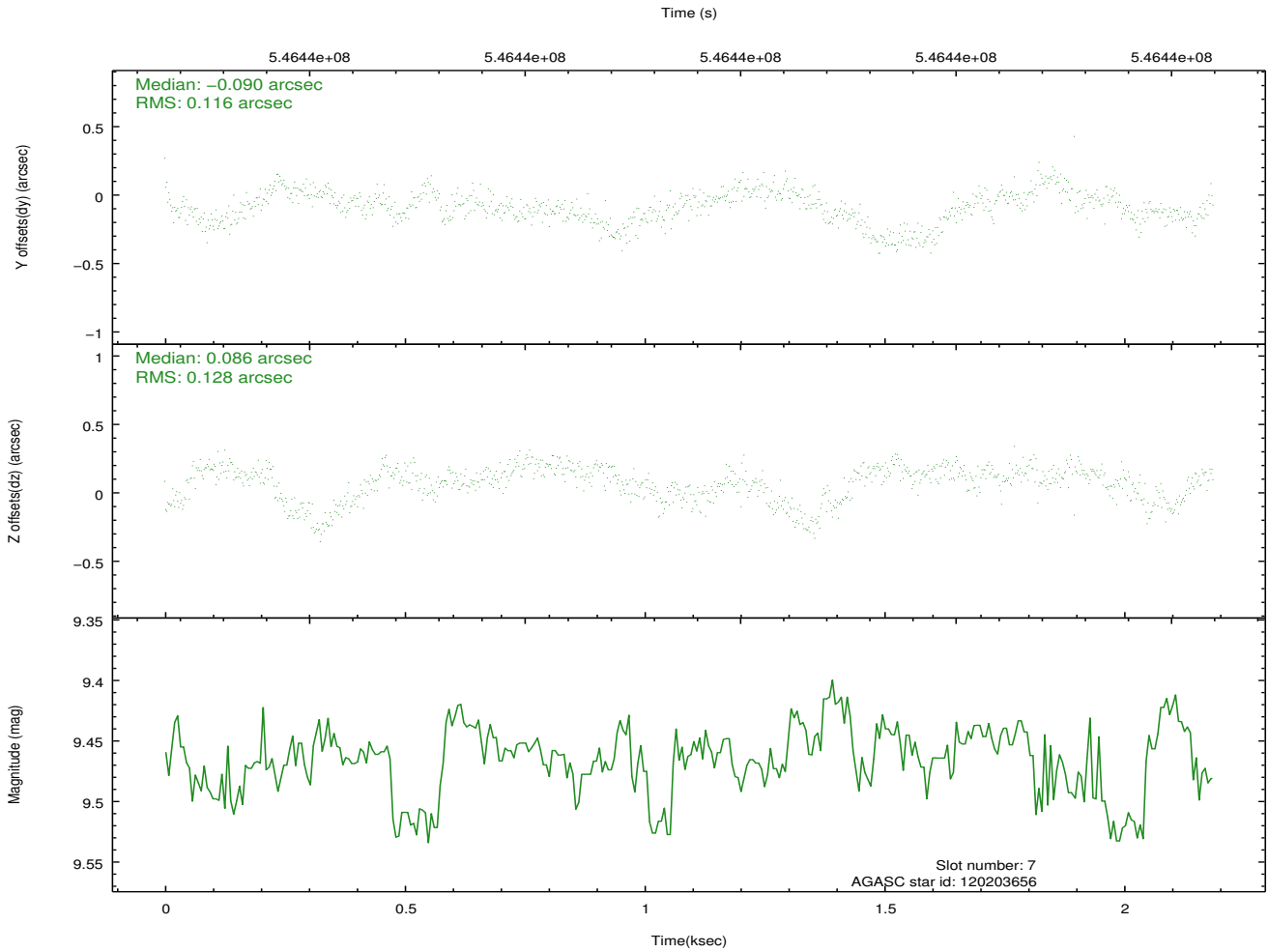
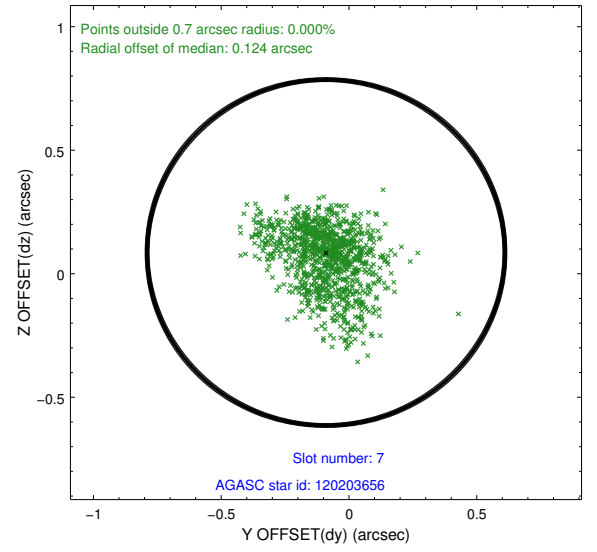
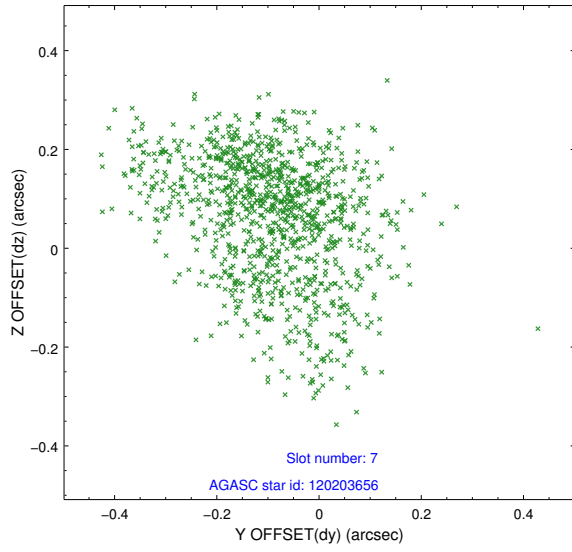
## 2.4.2 Slot 5



### 2.4.3 Slot 6

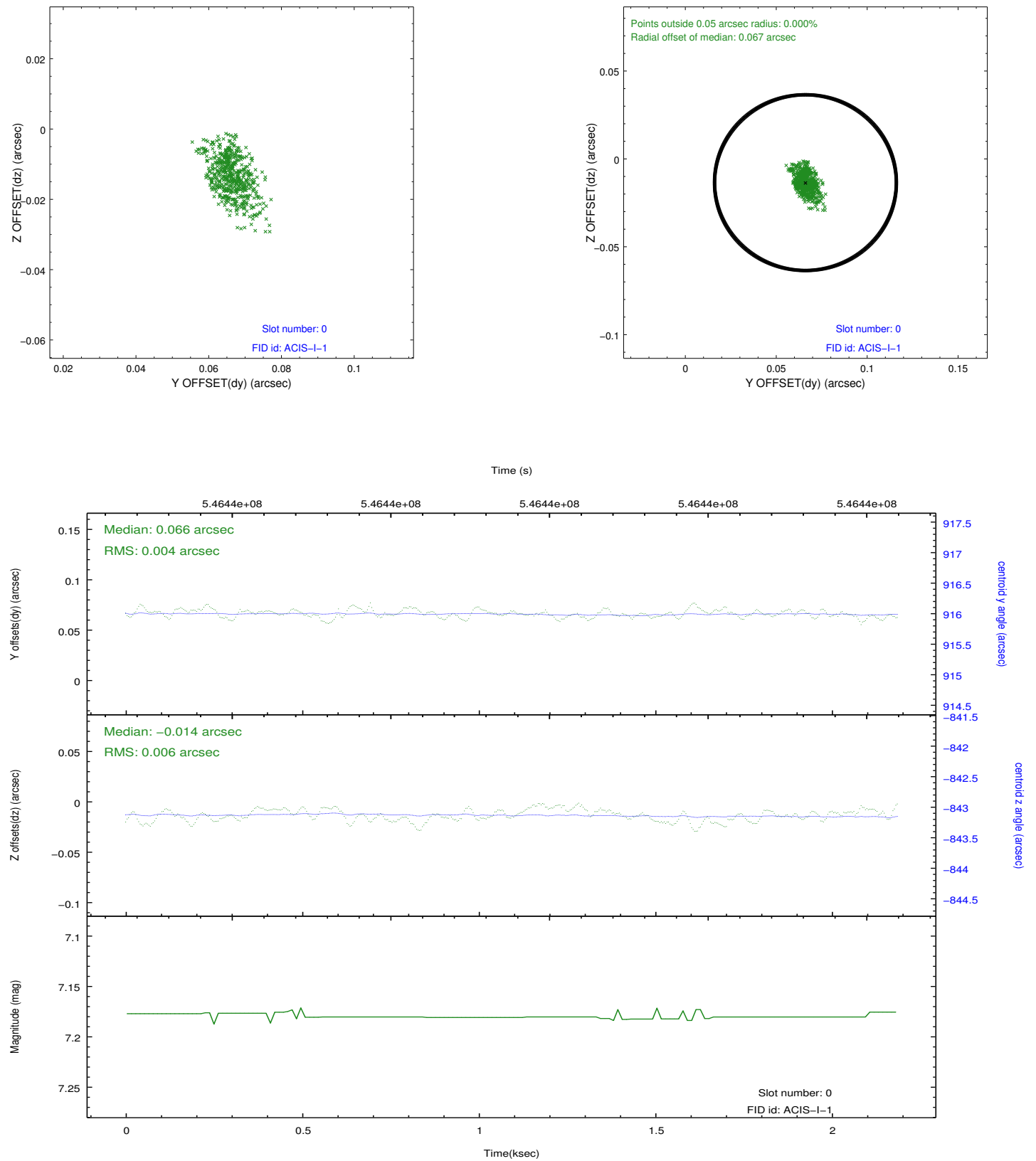


## 2.4.4 Slot 7

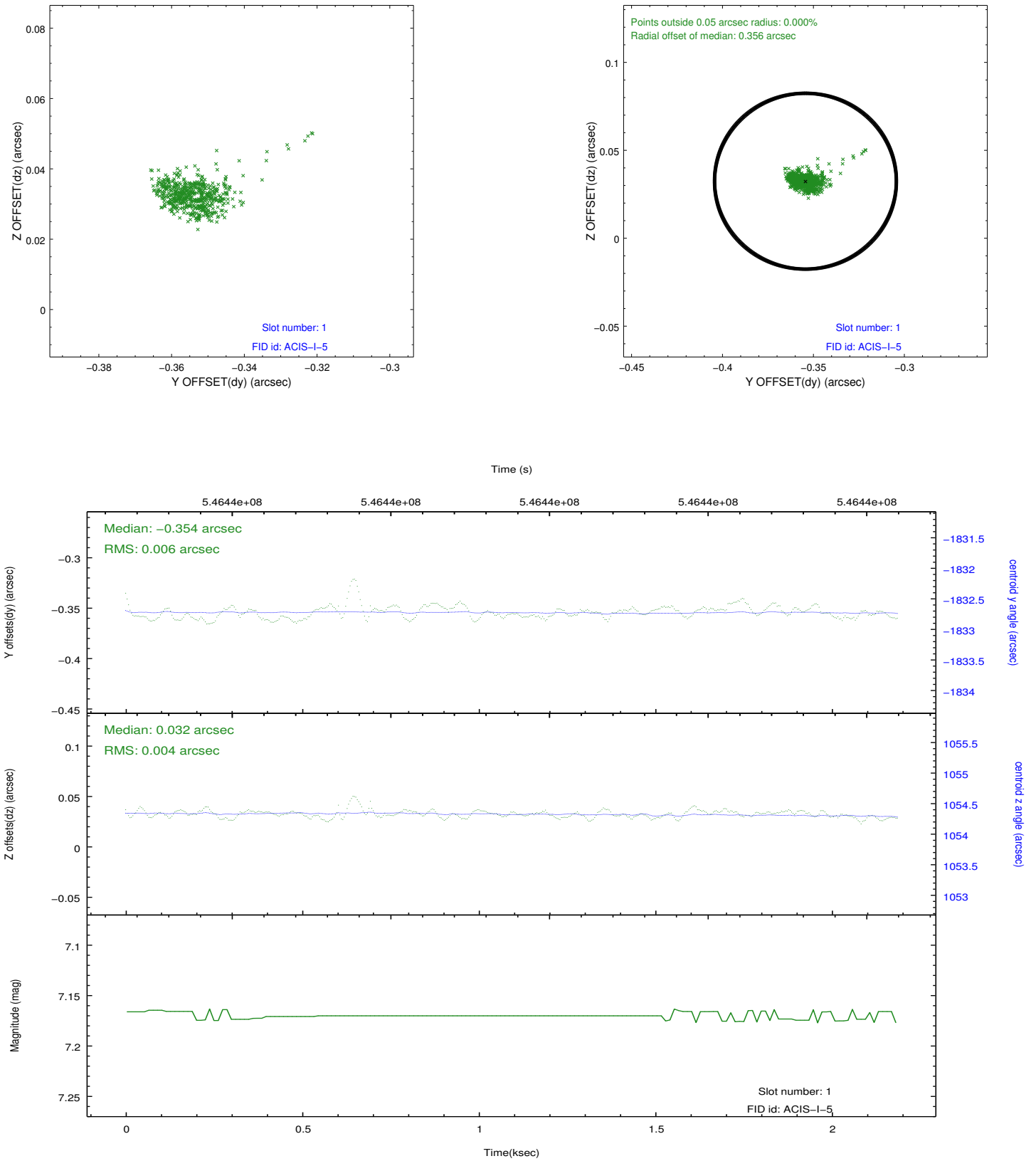


## 2.5 FID Slots

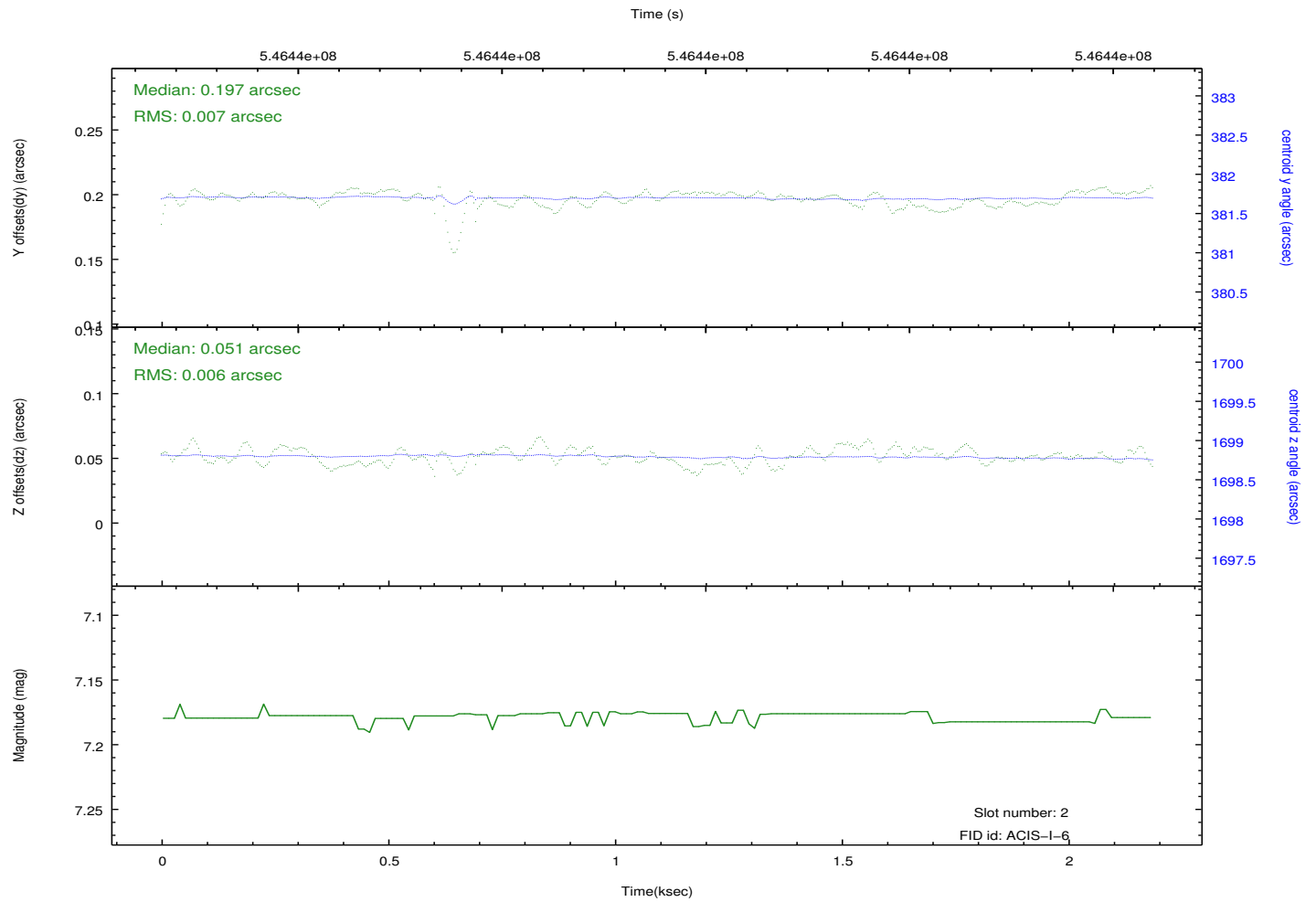
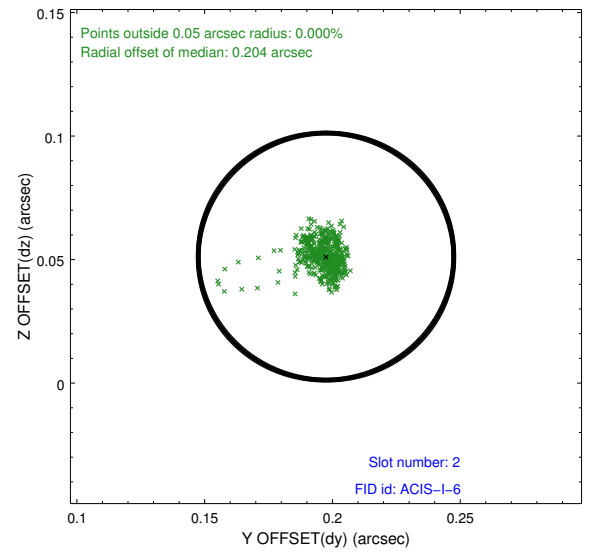
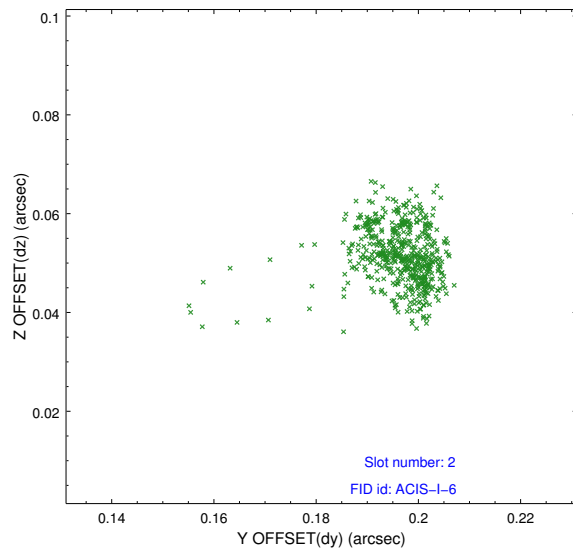
### 2.5.1 Slot 0



## 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)	2015.04.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.118

## A.2 Comments

The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.