

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13347 - L2 Version 2  
Chandra X-Ray Center

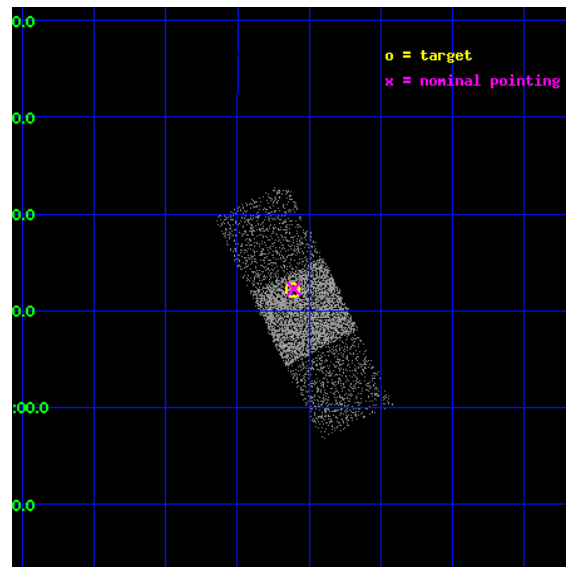
L2 Processing Date : Feb 28 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

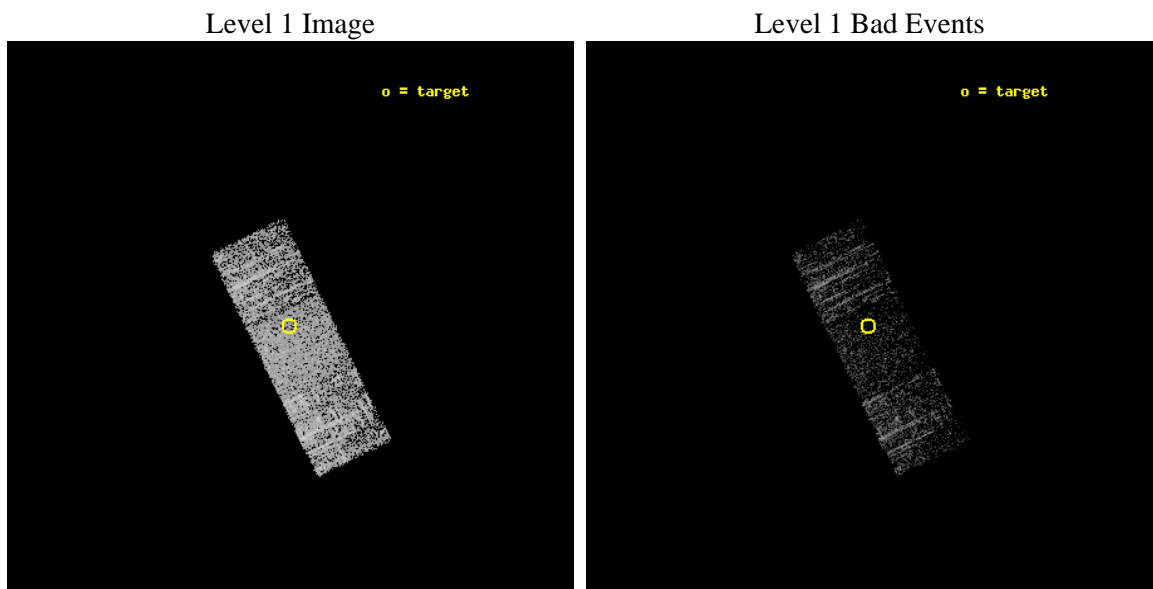
seq_num	702554	Sequence number
obs_id	13347	Observation id
title	A Large, Economical Snapshot Survey of the Most-Luminous Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Prof. Gordon Garmire	Principal investigator
object	SDSS J0841+0312	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	130.278333	Observer's specified target RA [deg]
dec_targ	3.201889	Observer's specified target Dec [deg]
ra_nom	130.27647869439	Nominal RA [deg]
dec_nom	3.2045232430165	Nominal Dec [deg]
roll_nom	63.90479002273	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1559.3000119925	Sum of GTIs [s]
livetime	1538.9266093958	Livetime [s]
ontime6	1556.1589615941	Sum of GTIs [s]
ontime7	1559.3000119925	Sum of GTIs [s]
ontime8	1559.3000119925	Sum of GTIs [s]
l2events	6661	Number of level 2 events



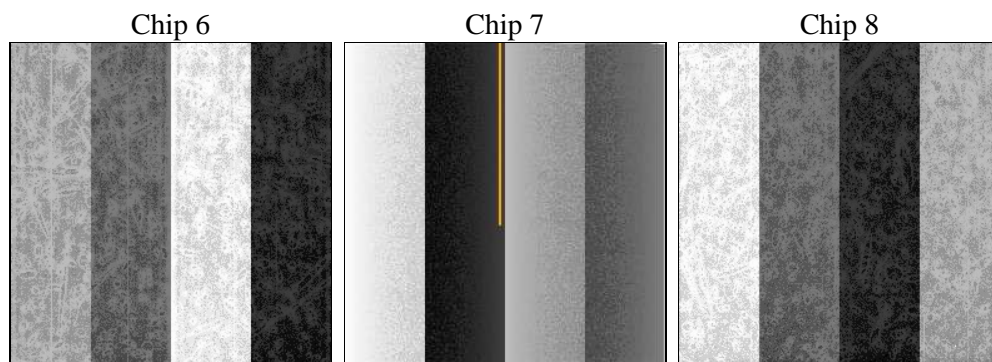
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	1559.3000119925	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime6	1556.1589615941	Sum of GTIs [s]
date	2012-02-28T15:43:49	Date and time of file creation	ontime7	1559.3000119925	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	1559.3000119925	Sum of GTIs [s]
			l1events	31250	Number of level 1 events

### 2.1.4 Events

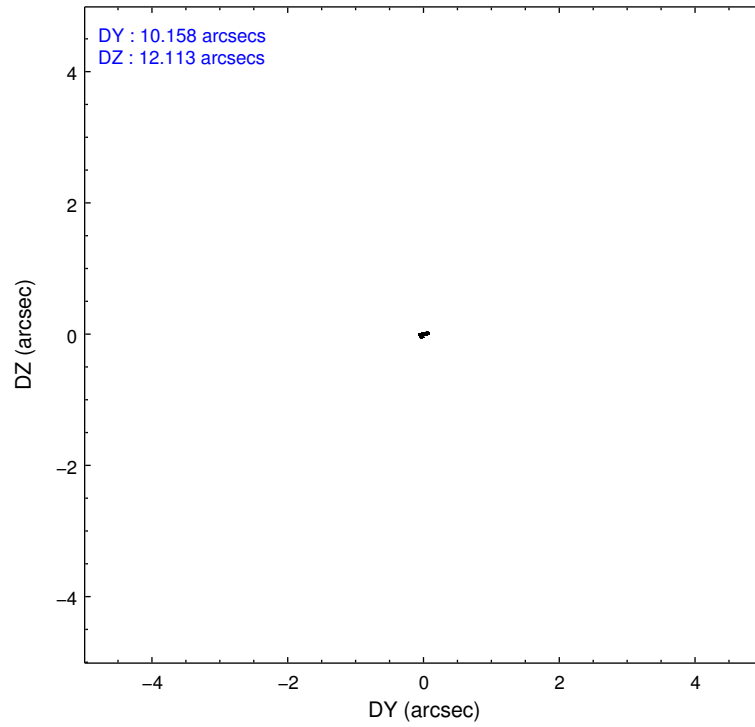
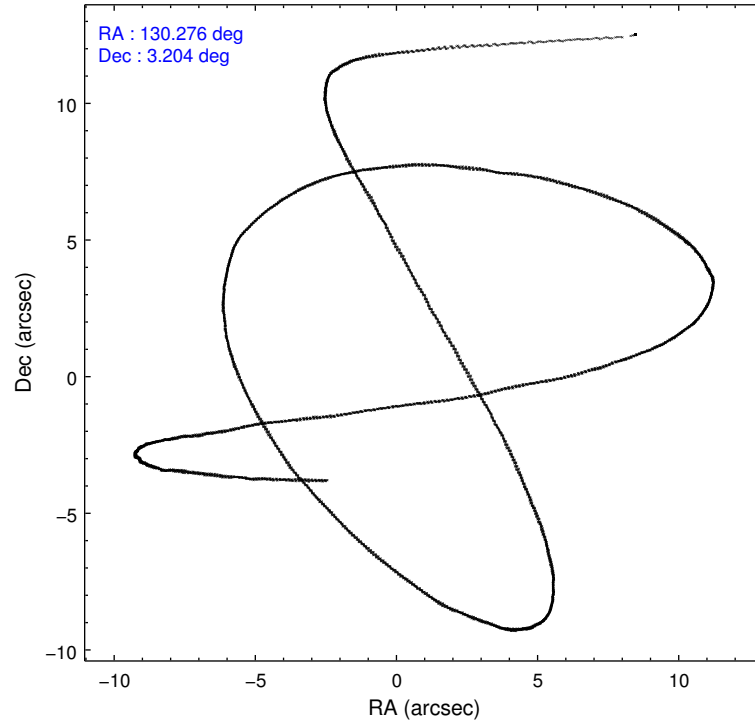
	ccd 6	ccd 7	ccd 8
level 1 events	9149	10268	11833
rejected events	8156	5270	8615
rejected %	89%	51%	72%

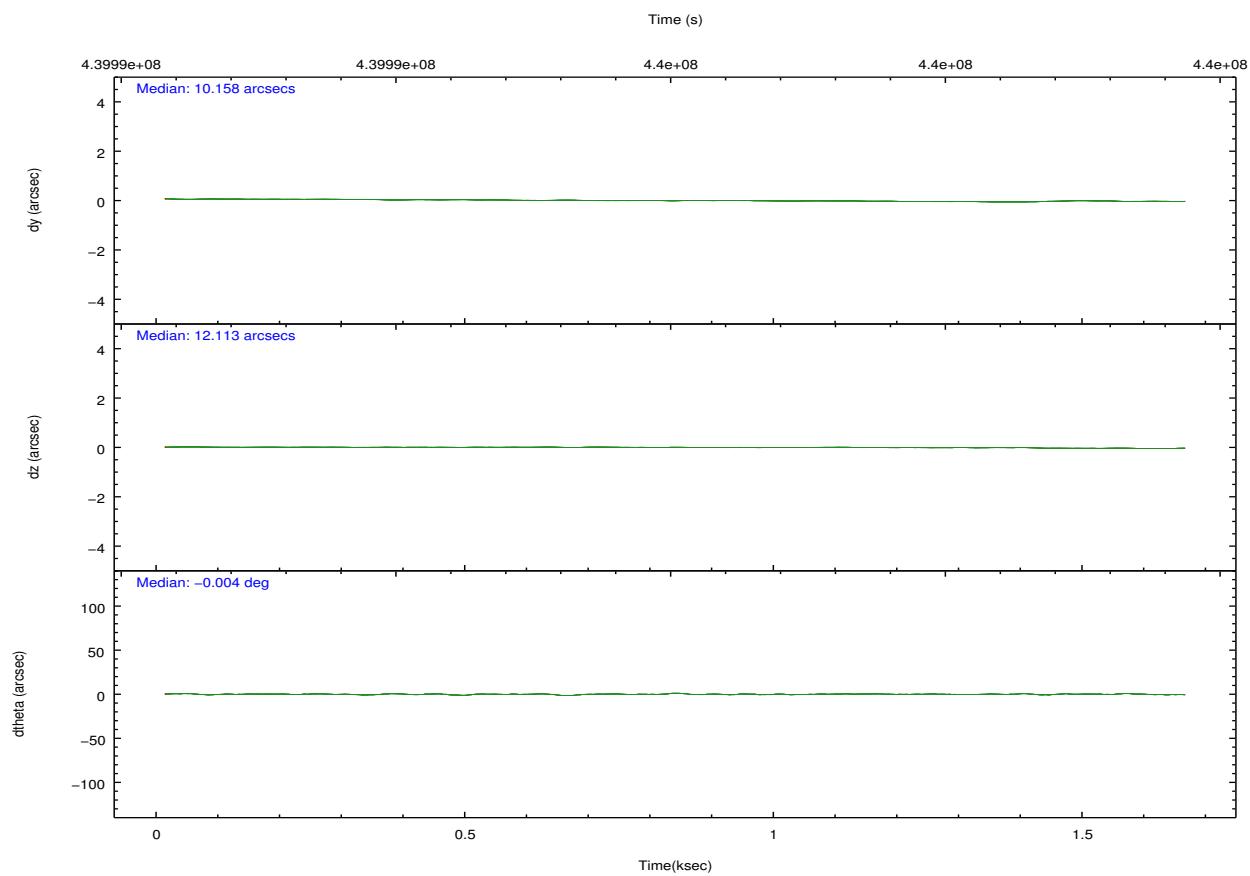
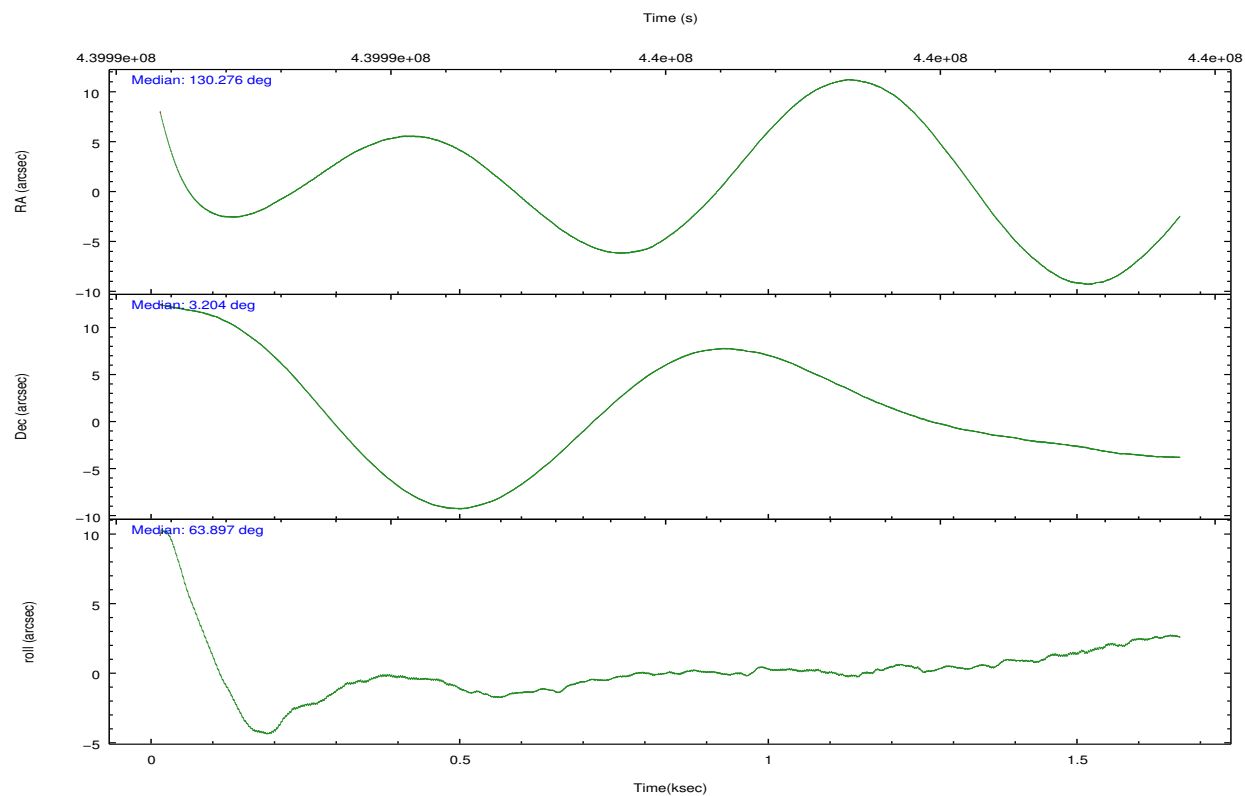
	ccd 6	ccd 7	ccd 8
grade 0 events	371	509	1001
	4%	4%	8%
grade 1 events	4	9	8
	0%	0%	0%
grade 2 events	224	1088	743
	2%	10%	6%
grade 3 events	111	460	386
	1%	4%	3%
grade 4 events	83	450	346
	0%	4%	2%
grade 5 events	361	1132	591
	3%	11%	4%
grade 6 events	205	2510	746
	2%	24%	6%
grade 7 events	7790	4110	8012
	85%	40%	67%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	130.278990	130.2764786943851	Subarray requested	NONE	NONE
[deg] Pointing Dec	3.177225	3.204523243016502	Alternating exposures requested	N	N
[deg] Pointing Roll	63.747950	63.90479002272996	[s] Primary exposure time	0.000000	3.1
[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)	439994343.184000	439993331.67736			
Observation start date	2011-12-11T12:37:57	2011-12-11T12:22:11			
[s] Observation end time (MET)	439995843.184000	439997240.51507			
Observation end date	2011-12-11T13:02:57	2011-12-11T13:27:20			
Read mode	TIMED	TIMED			

## 2.3 Aspect





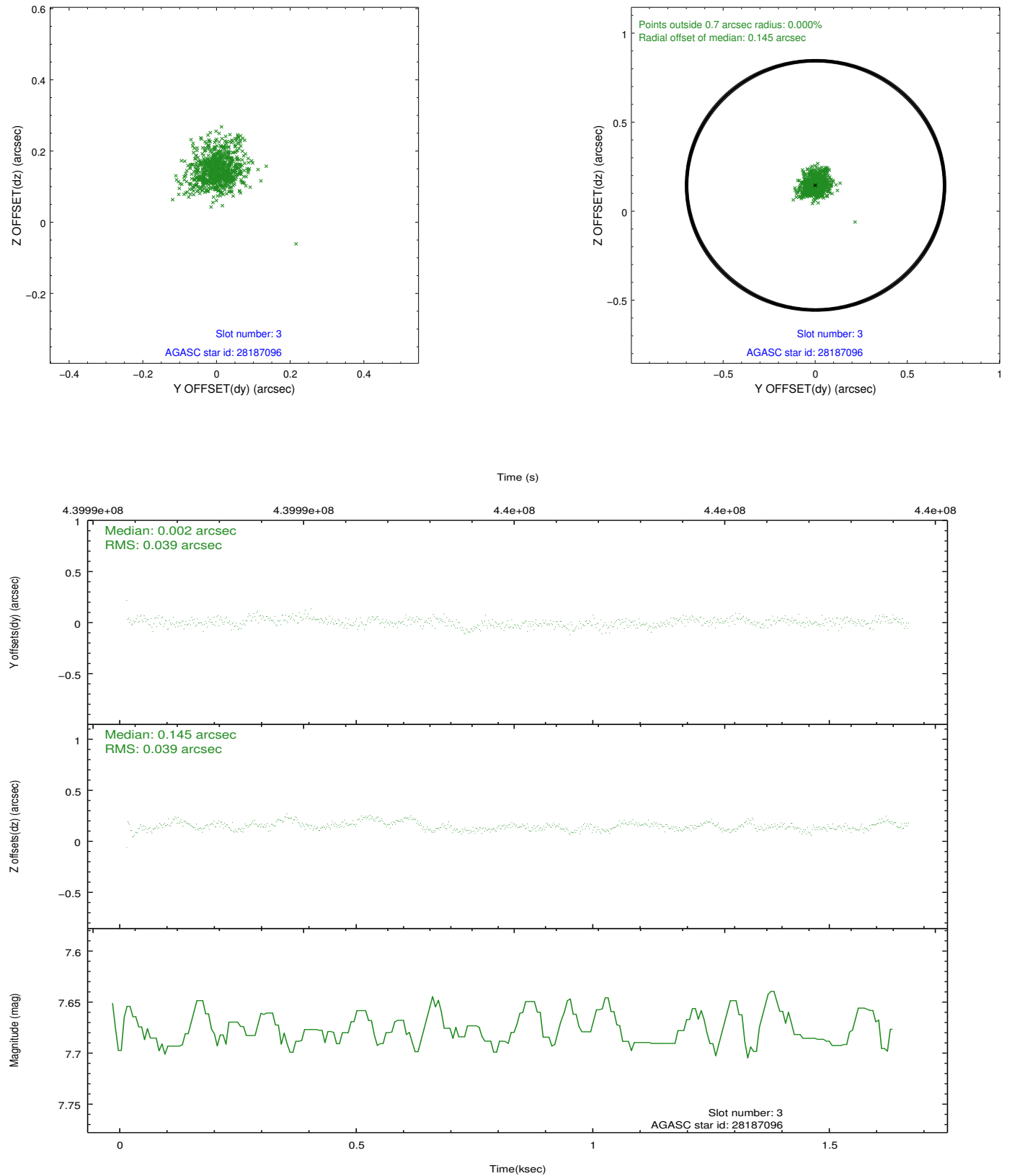
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.10	403	0.158	-0.090	0.007	0.012	0.000000	0.000000	933.16	-1729.15
1	FID	ACIS-S-2	7.02	404	-0.041	0.004	0.007	0.010	0.000000	0.000000	-760.72	-1737.69
2	FID	ACIS-S-5	7.15	404	-0.141	0.092	0.006	0.011	0.000000	0.000000	-1818.07	164.51
3	GUIDE	28187096	7.68	806	0.002	0.145	0.056	0.099	130.371789	2.608717	-1687.33	-1205.19
4	GUIDE	28190576	7.89	806	-0.331	-0.455	0.086	0.131	129.942175	3.544946	649.93	1668.52
5	GUIDE	28190152	9.35	806	0.069	-0.117	0.095	0.170	129.705709	2.739266	-2324.25	1152.77
6	GUIDE	28185448	9.20	807	0.165	0.125	0.105	0.173	130.462821	2.371545	-2310.88	-1875.42
7	GUIDE	28188560	9.42	805	0.103	0.302	0.145	0.232	130.693964	2.500218	-1527.65	-2419.35

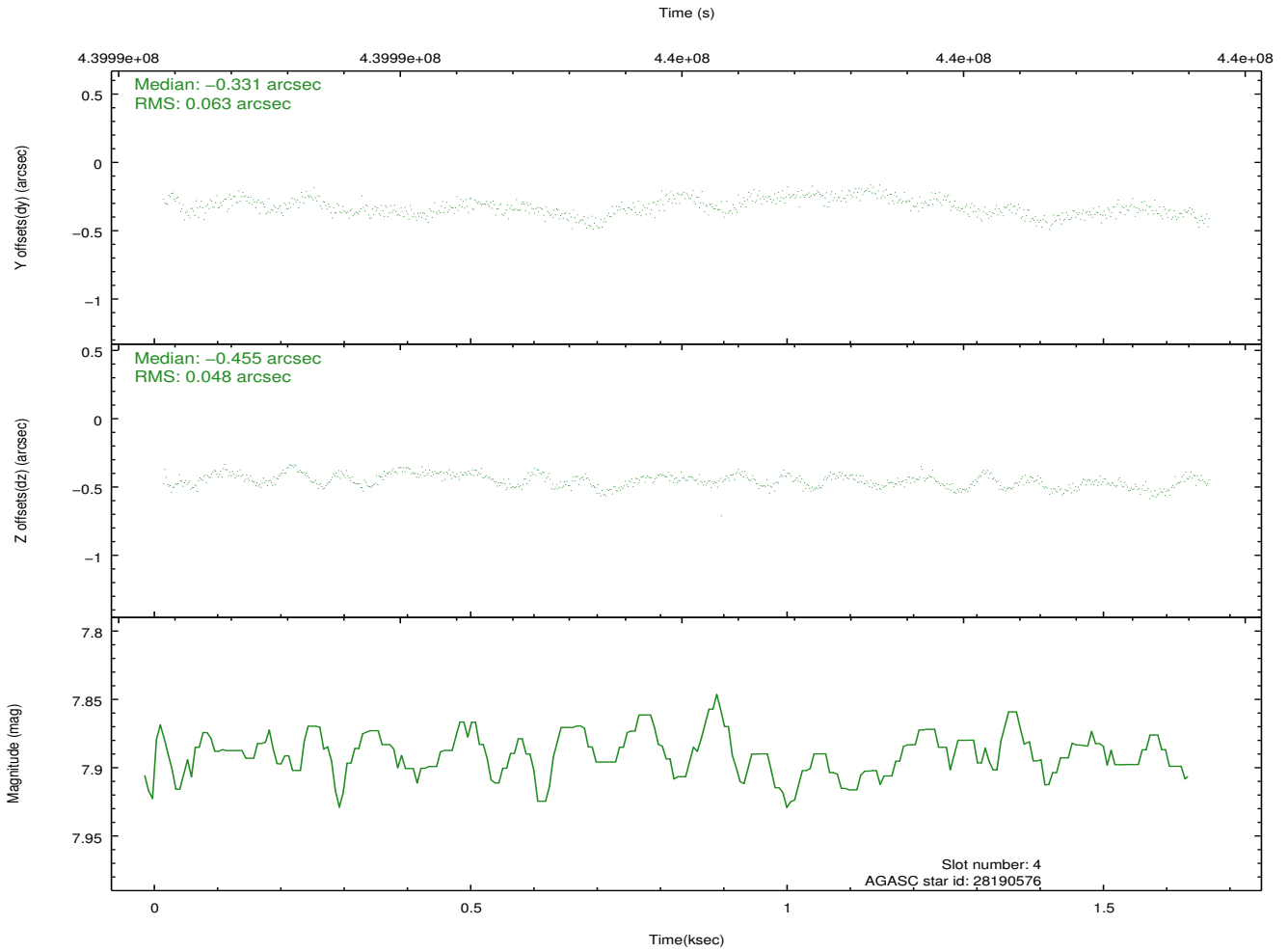
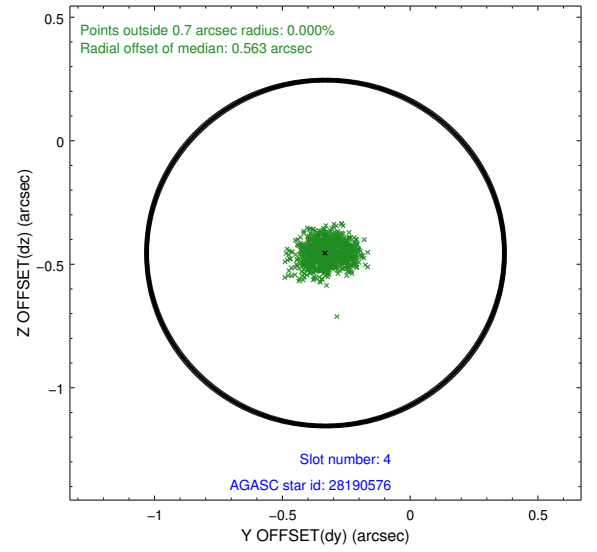
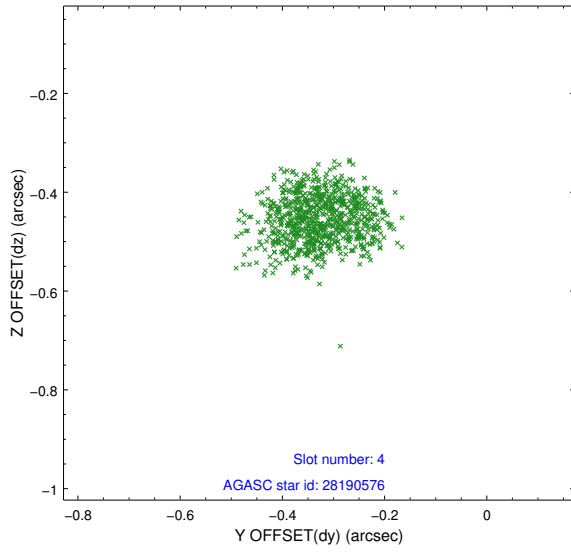


## 2.4 Star Slots

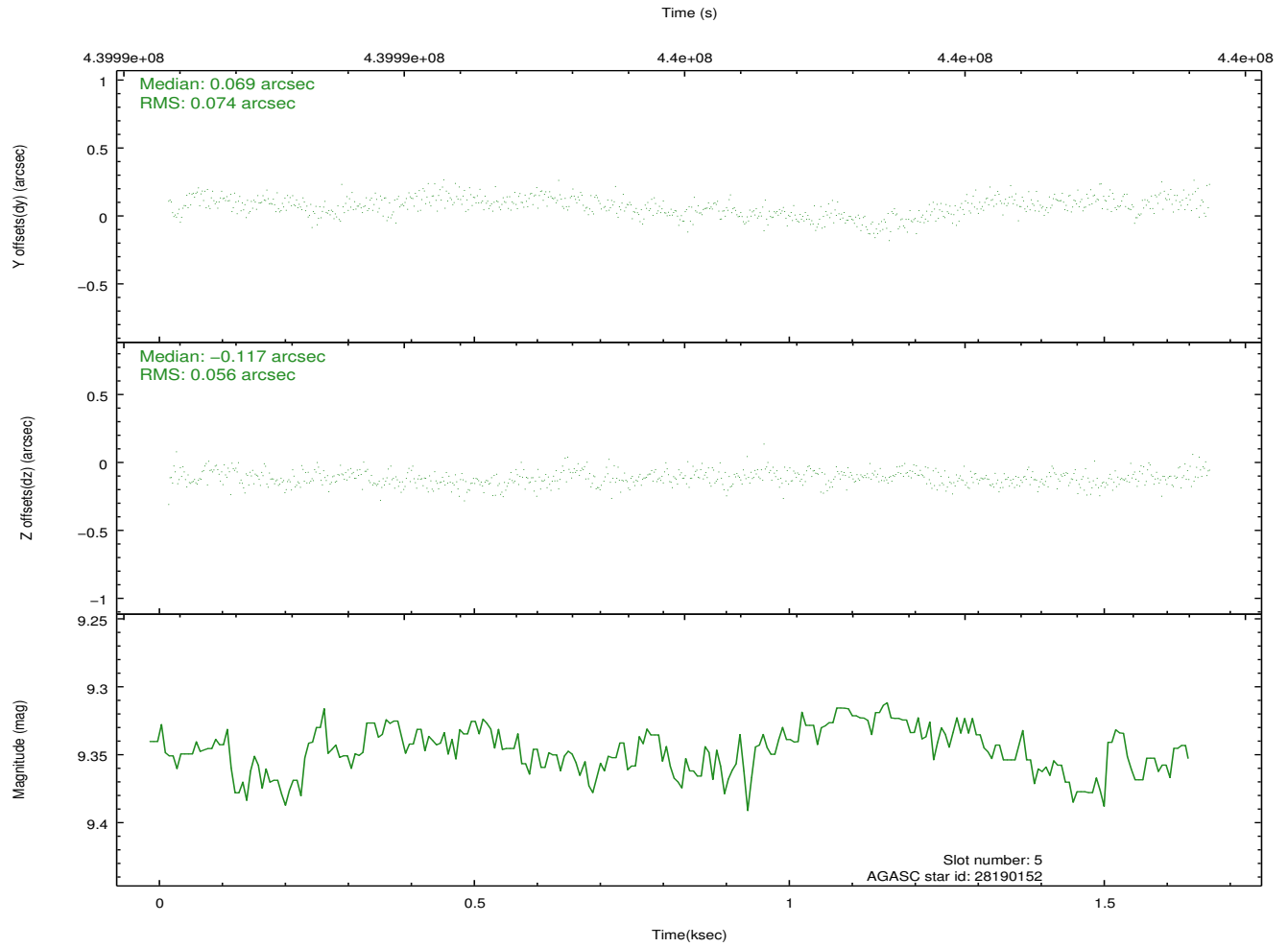
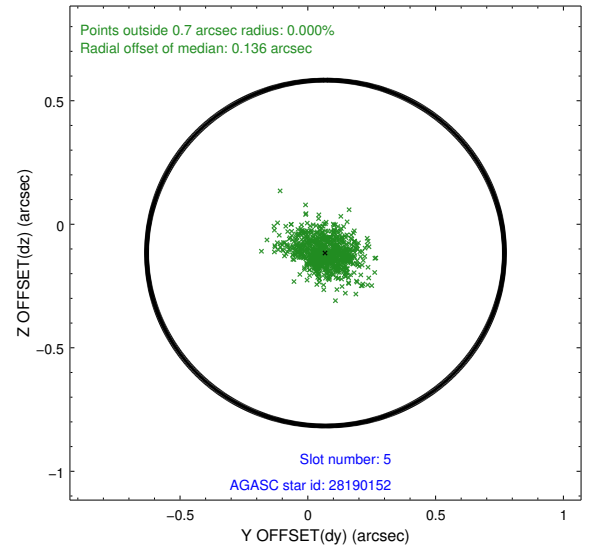
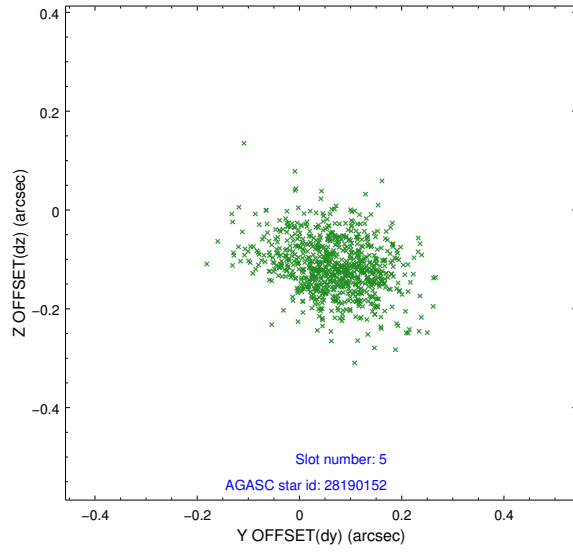
### 2.4.1 Slot 3



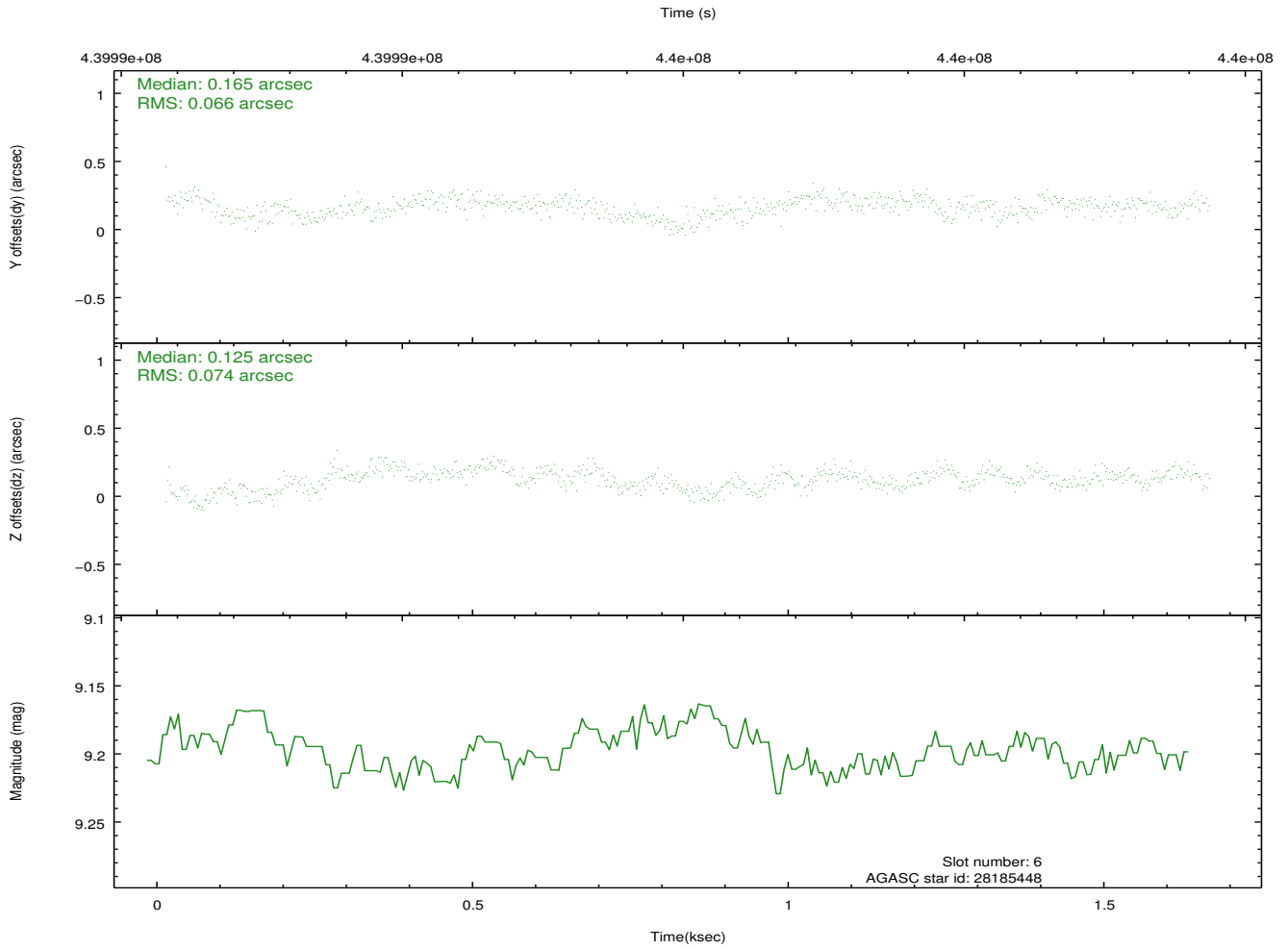
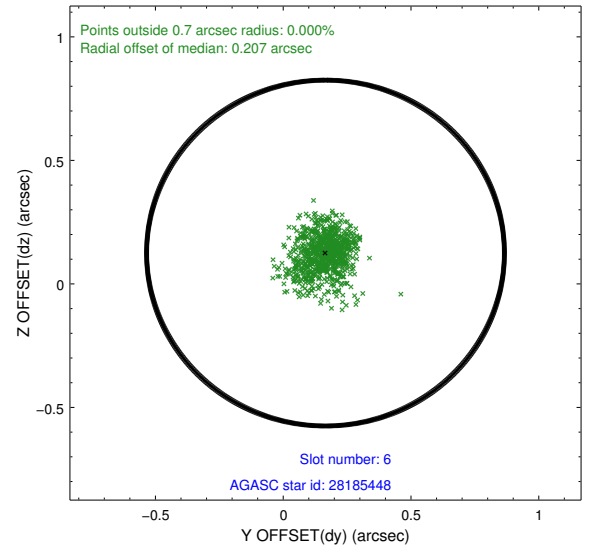
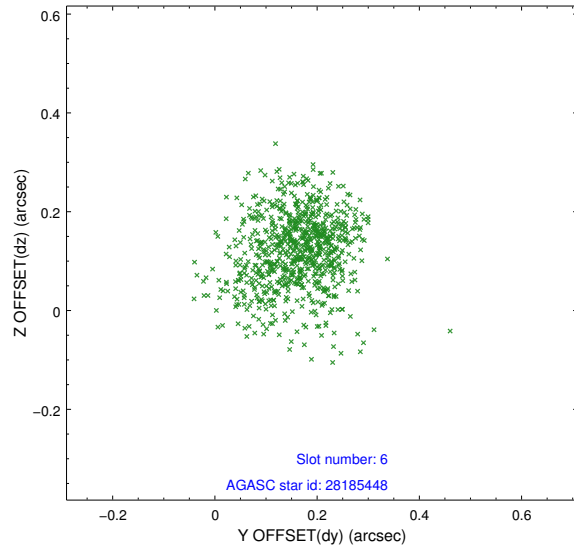
## 2.4.2 Slot 4



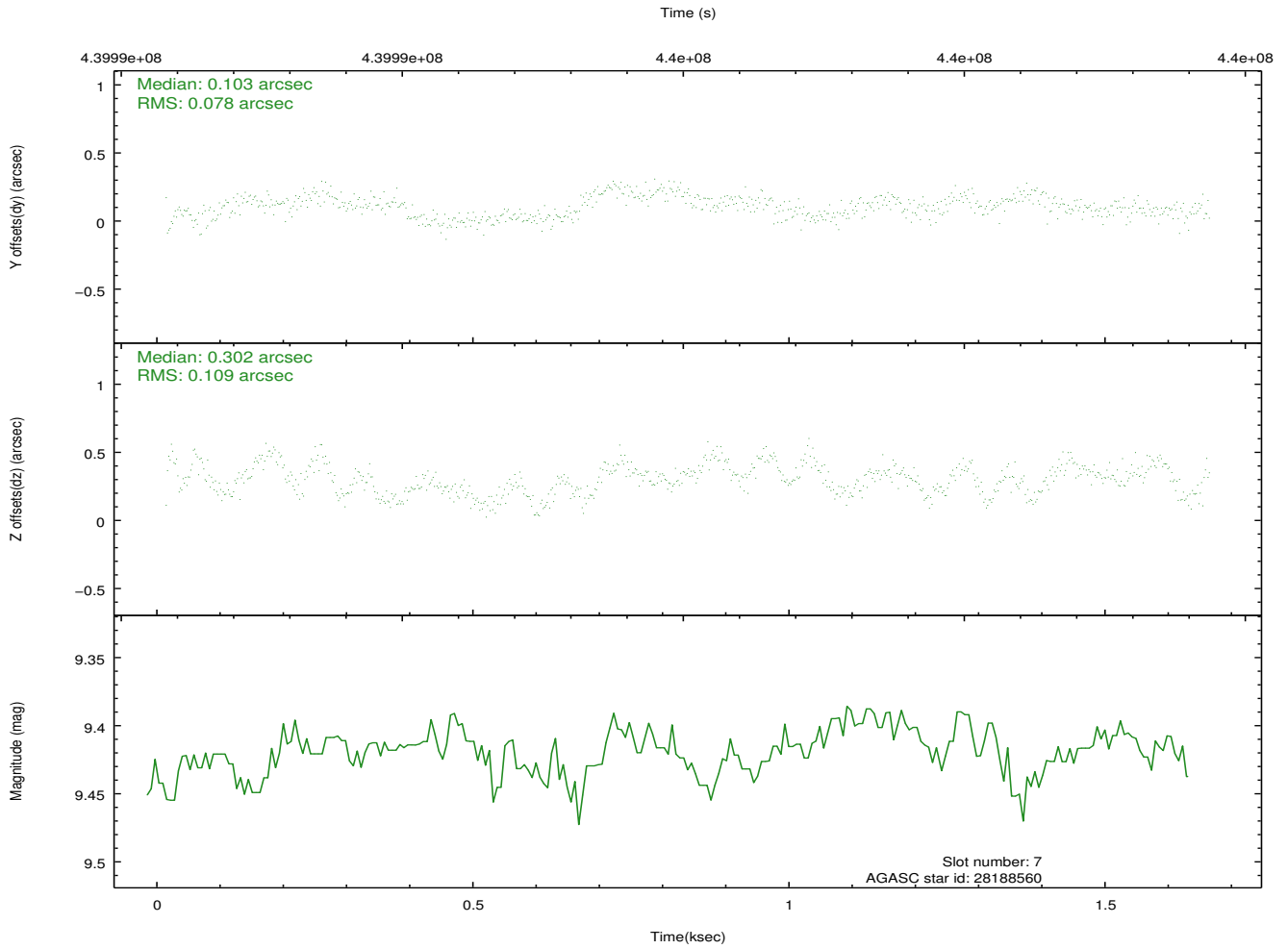
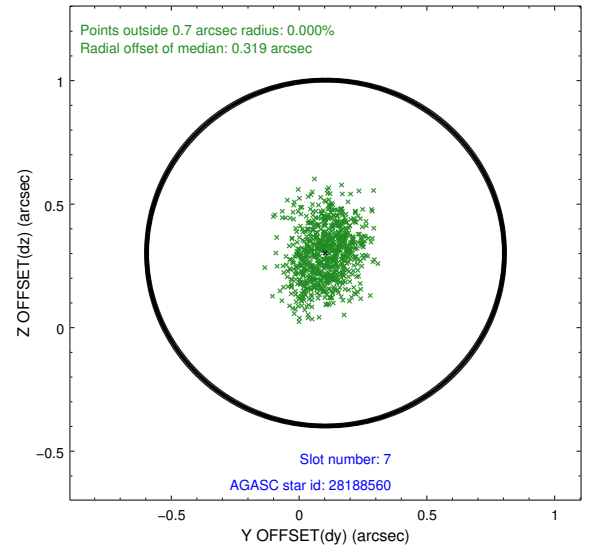
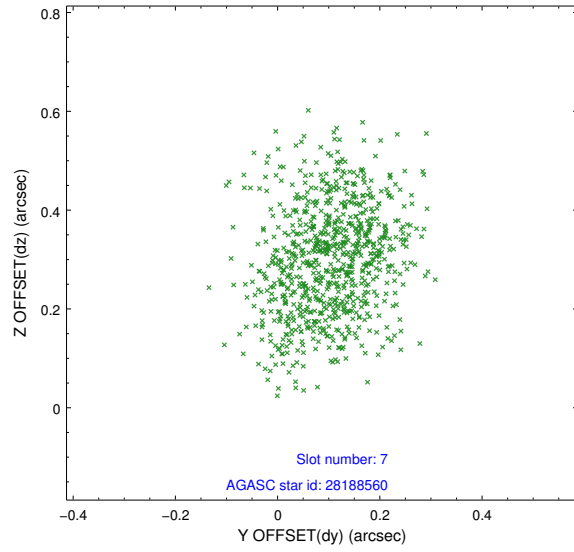
### 2.4.3 Slot 5



## 2.4.4 Slot 6

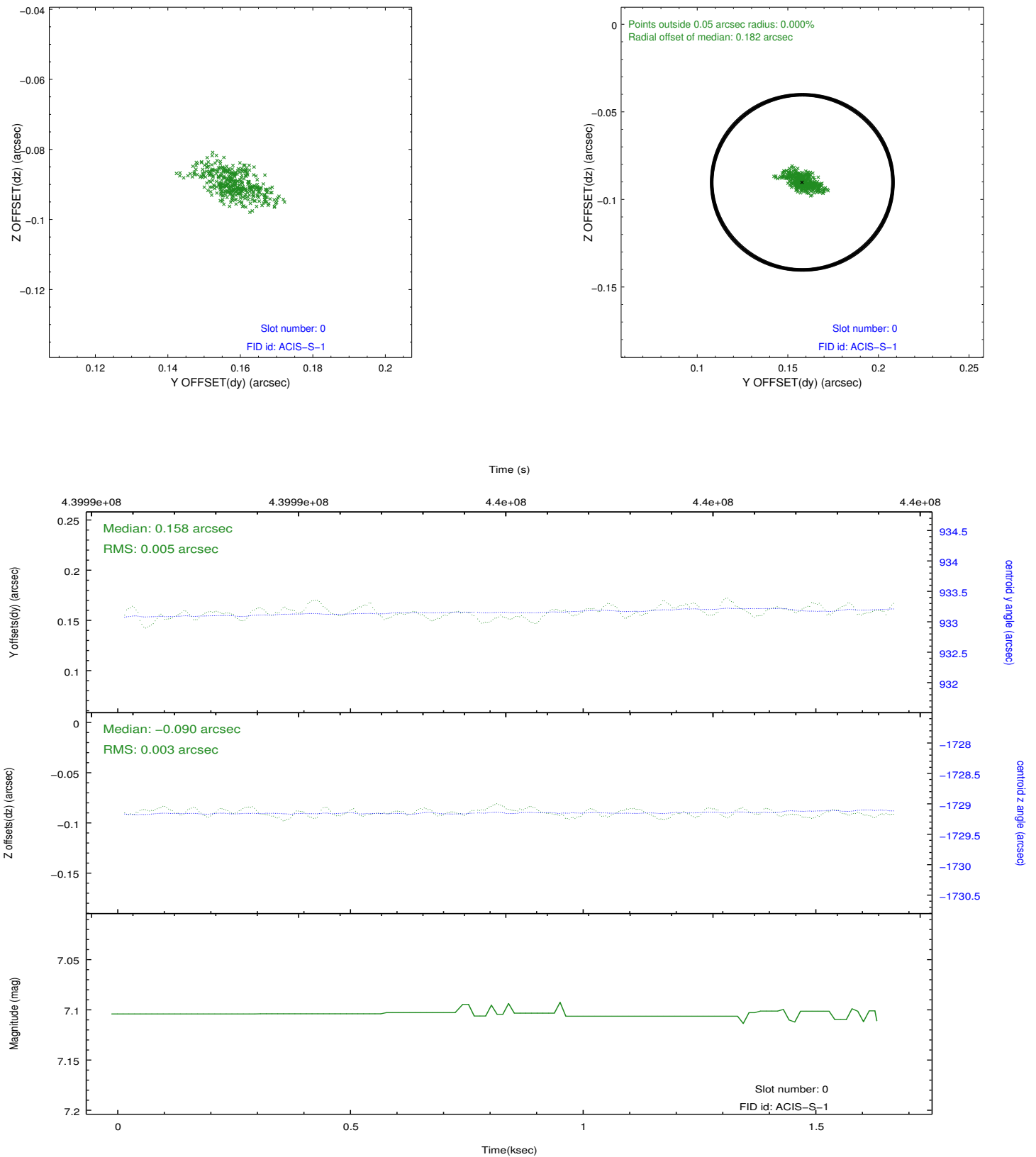


## 2.4.5 Slot 7

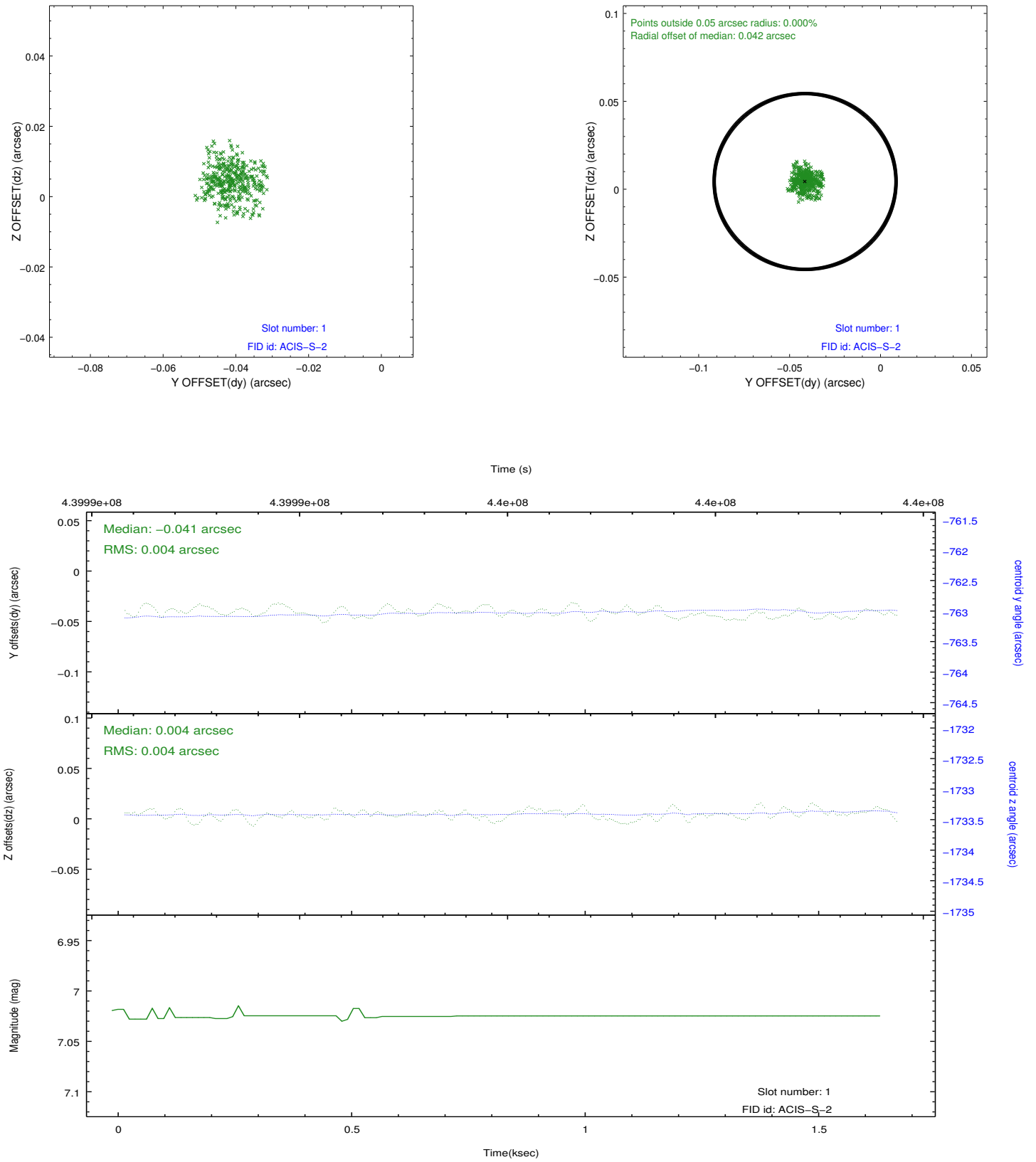


## 2.5 FID Slots

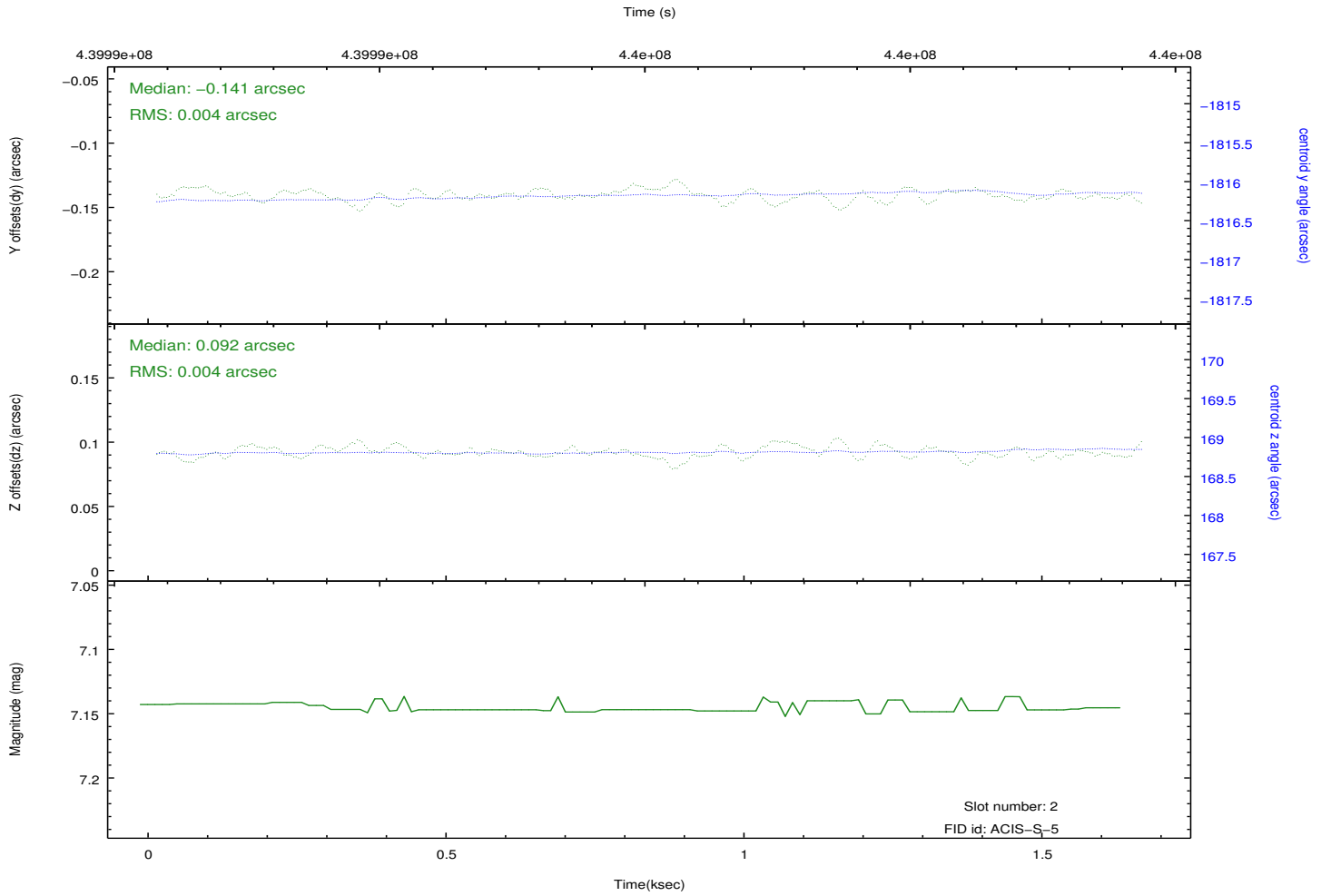
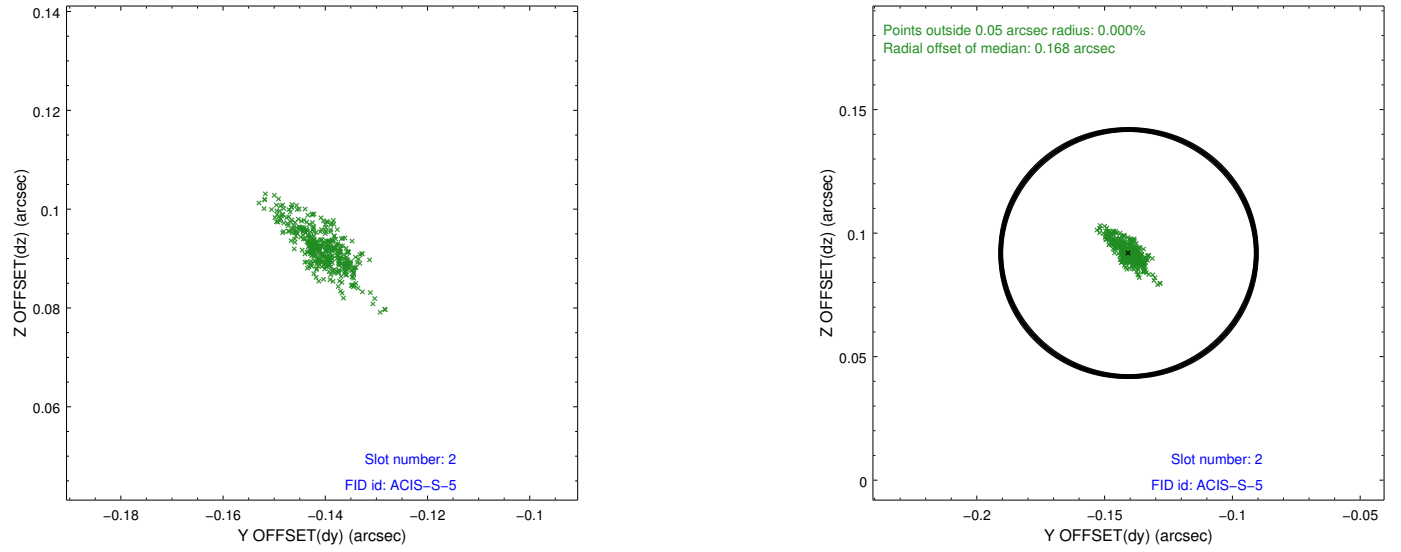
### 2.5.1 Slot 0



## 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)	2012.02.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.5593000119925

### A.2 Comments