

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2106 - L2 Version 3  
Chandra X-Ray Center

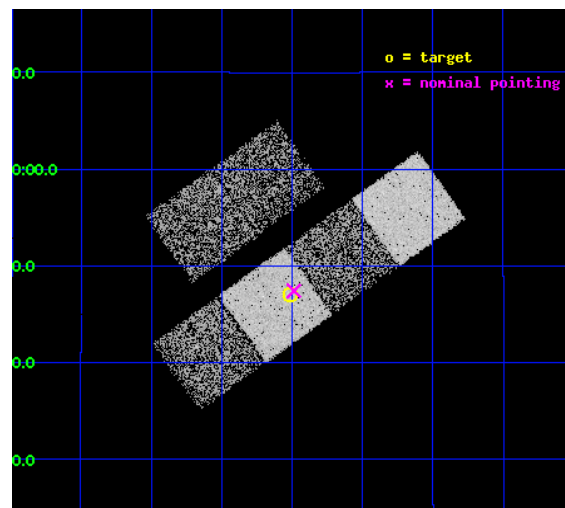
L2 Processing Date : Sep 14 2012

## 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

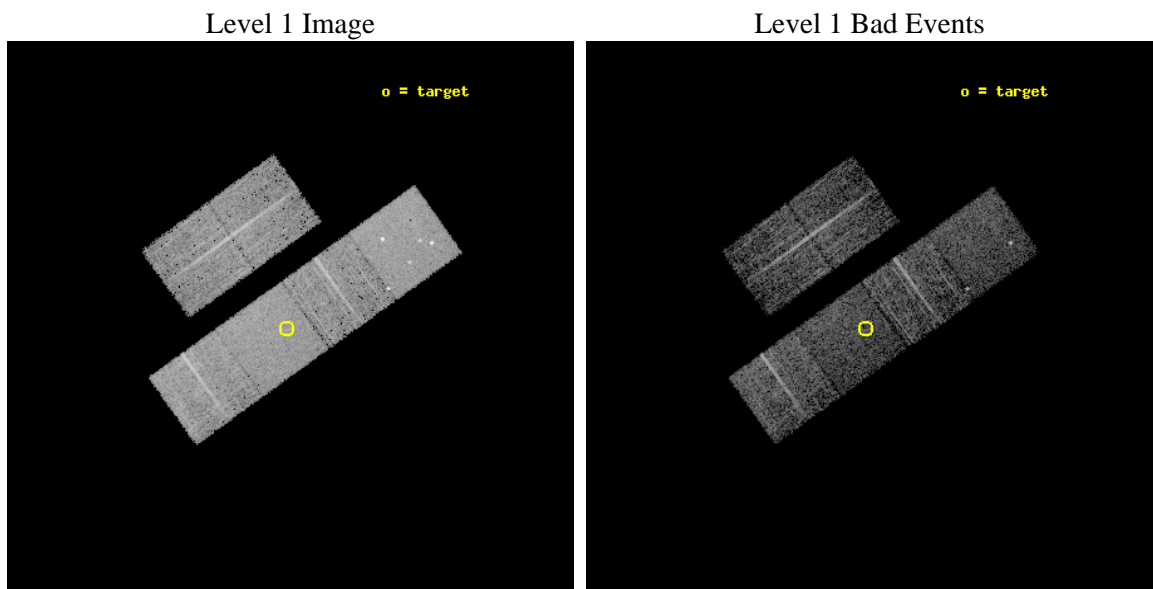
seq_num	700296	Sequence number
obs_id	2106	Observation id
title	PUBLIC OBSERVATIONS OF A WELL-DEFINED SAMPLE OF BAL QSOS FROM THE LARGE BRIGHT QUASAR SURVEY: REMOVING THE BARRIERS	Proposal title
observer	Prof. William Brandt	Principal investigator
object	LBQS 1216+1103	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	184.87875	Observer's specified target RA [deg]
dec_targ	10.783528	Observer's specified target Dec [deg]
ra_nom	184.87186244228	Nominal RA [deg]
dec_nom	10.790504766124	Nominal Dec [deg]
roll_nom	144.4054461492	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4694.4000043571	Sum of GTIs [s]
livetime	4634.9566848736	Livetime [s]
ontime2	4694.4000043571	Sum of GTIs [s]
ontime3	4694.4000043571	Sum of GTIs [s]
ontime5	4694.4000043571	Sum of GTIs [s]
ontime6	4694.4000043571	Sum of GTIs [s]
ontime7	4694.4000043571	Sum of GTIs [s]
ontime8	4691.1591537148	Sum of GTIs [s]
l2events	47721	Number of level 2 events



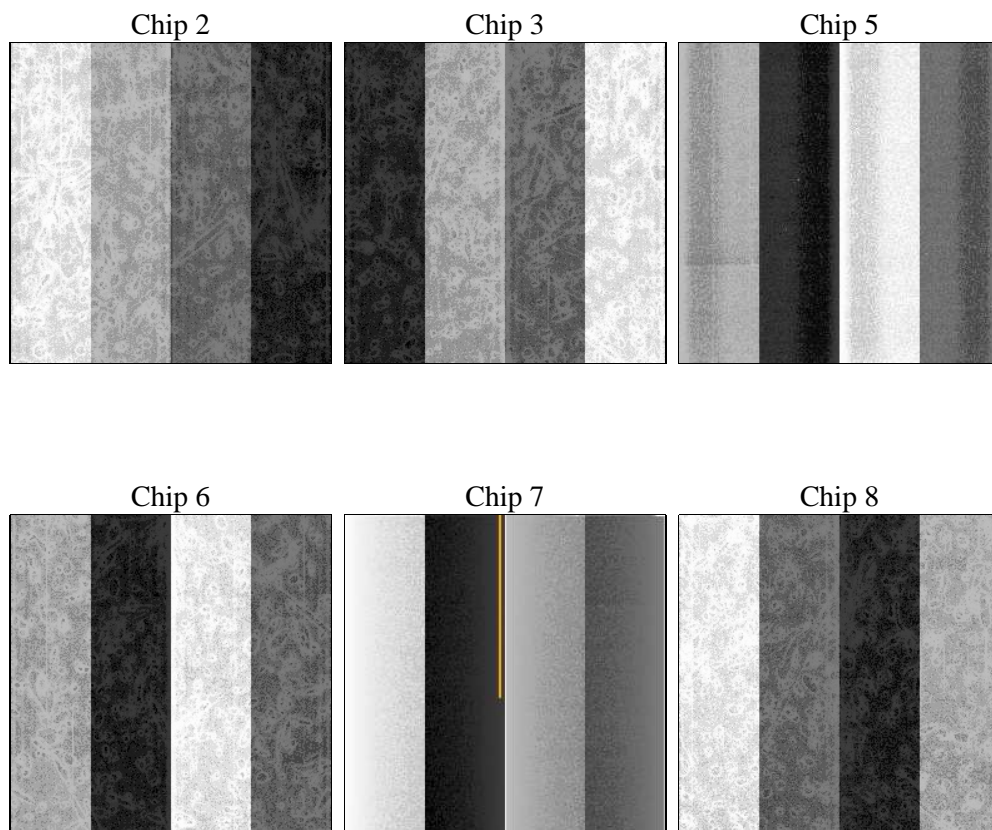
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4995.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4694.4000043571	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	4694.4000043571	Sum of GTIs [s]
date	2012-09-14T04:12:26	Date and time of file creation	ontime3	4694.4000043571	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4694.4000043571	Sum of GTIs [s]
			ontime6	4694.4000043571	Sum of GTIs [s]
			ontime7	4694.4000043571	Sum of GTIs [s]
			ontime8	4691.1591537148	Sum of GTIs [s]
			l1events	222567	Number of level 1 events

### 2.1.4 Events

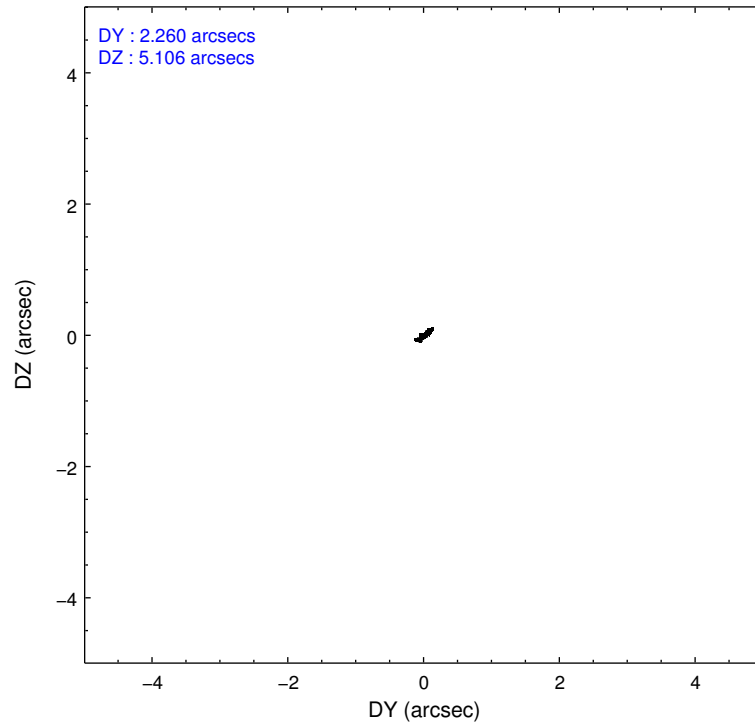
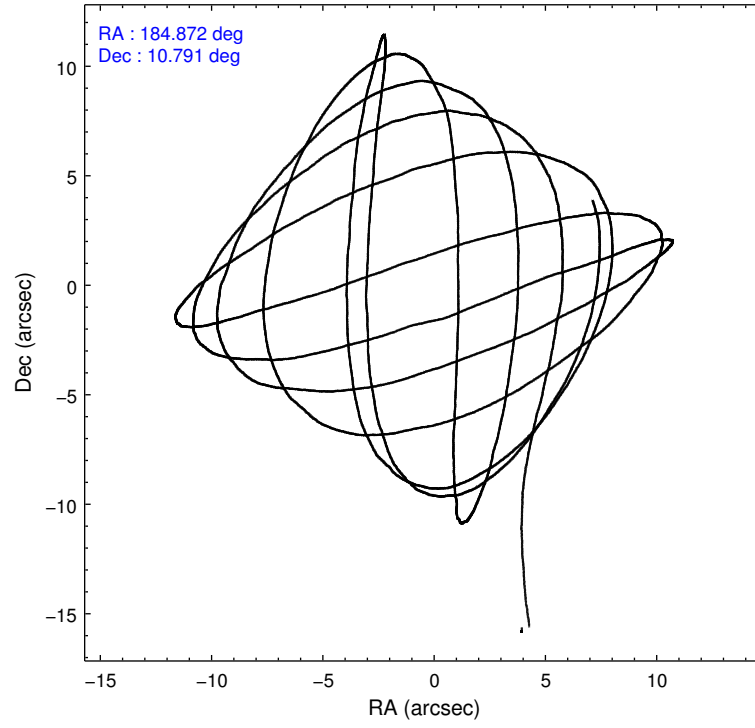
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	30582	30847	46131	33258	40051	41698	grade 0 events	1405	1534	3599	1708	1561	2647
rejected events	27152	27266	24127	29281	23382	33761		4%	4%	7%	5%	3%	6%
rejected %	88%	88%	52%	88%	58%	80%	grade 1 events	10	14	198	18	37	23
								0%	0%	0%	0%	0%	0%
							grade 2 events	720	689	6190	776	3291	1673
								2%	2%	13%	2%	8%	4%
							grade 3 events	327	359	868	386	1550	838
								1%	1%	1%	1%	3%	2%
							grade 4 events	324	347	813	369	1497	819
								1%	1%	1%	1%	3%	1%
							grade 5 events	1067	1129	3445	1194	3767	1574
								3%	3%	7%	3%	9%	3%
							grade 6 events	656	652	10544	739	8785	1962
								2%	2%	22%	2%	21%	4%
							grade 7 events	26073	26123	20474	28068	19563	32162
								85%	84%	44%	84%	48%	77%

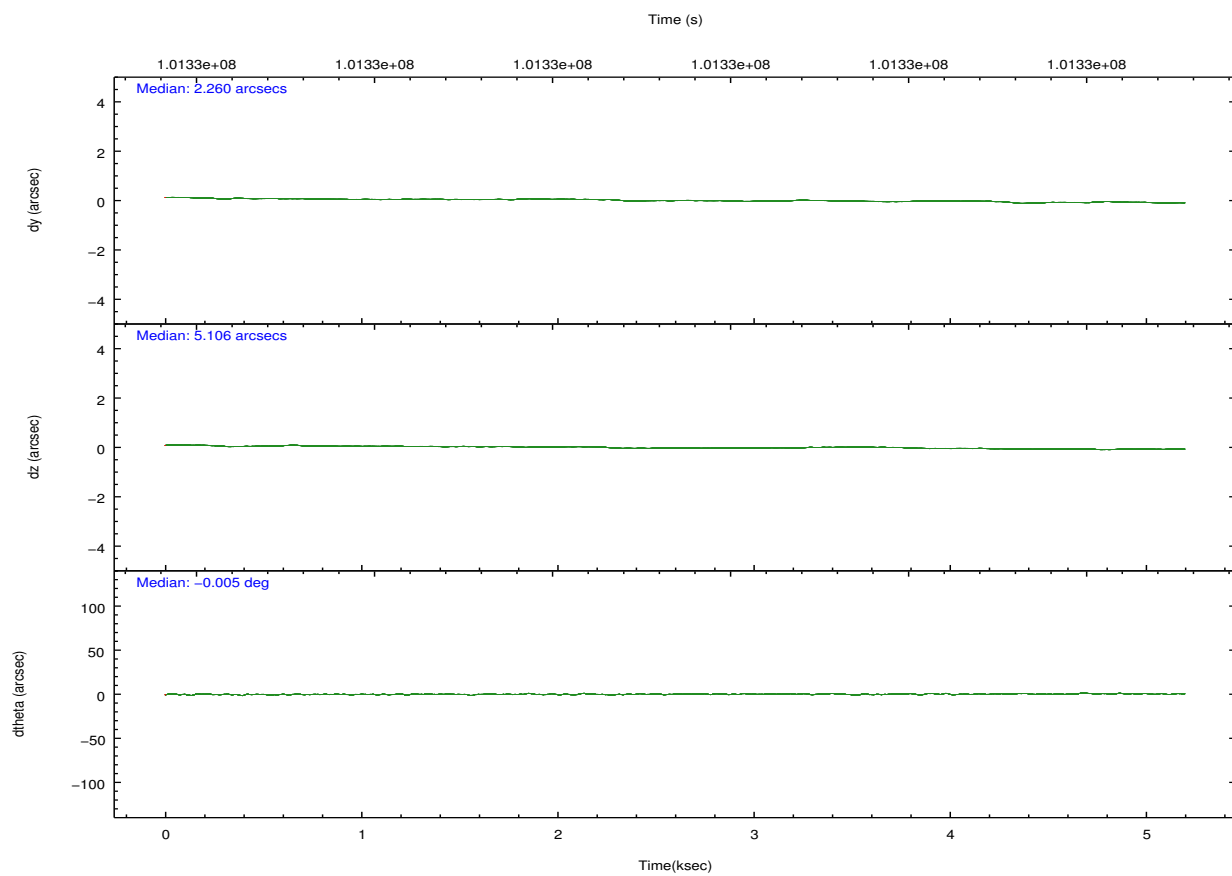
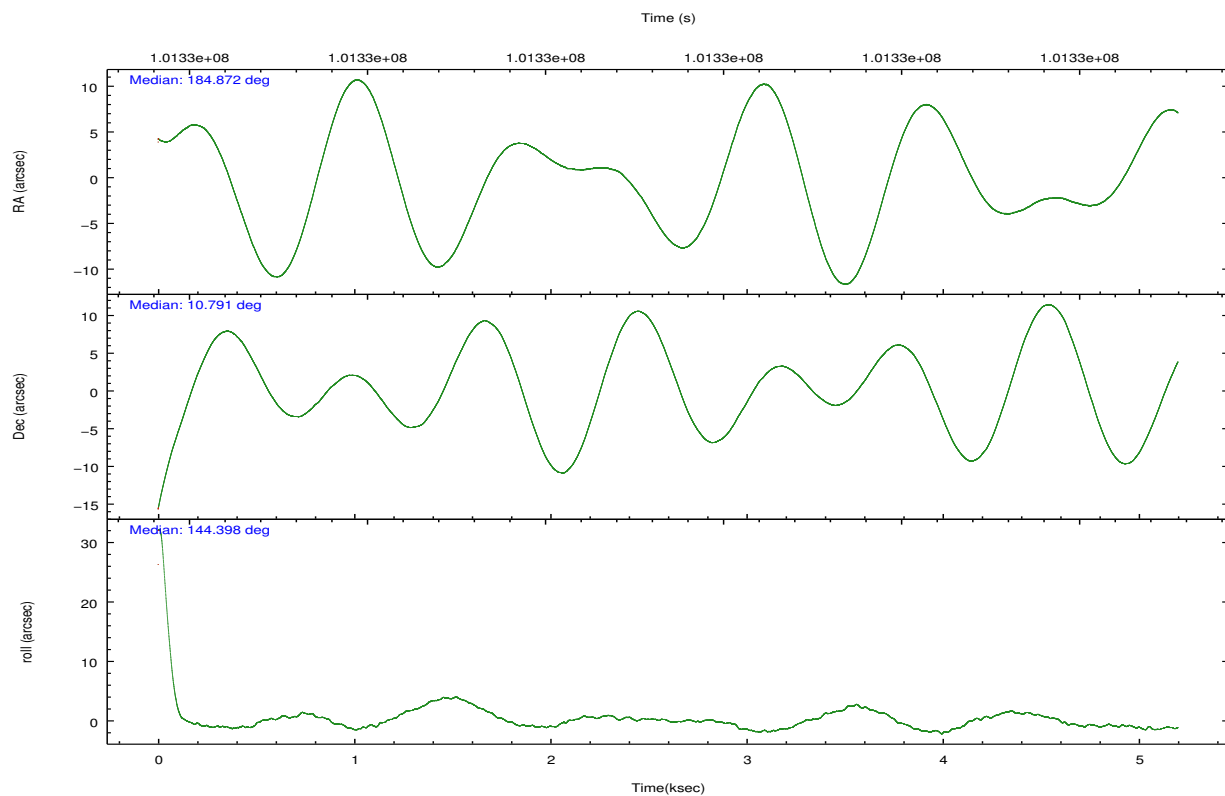


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	184.899500	184.8718624422778	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.788160	10.79050476612353	Alternating exposures requested	N	N
[deg] Pointing Roll	144.243561	144.4054461492022	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	101328287.184000	101327606.48175			
Observation start date	2001-03-18T18:43:43	2001-03-18T18:33:26			
[s] Observation end time (MET)	101333282.184000	101333754.43199			
Observation end date	2001-03-18T20:06:58	2001-03-18T20:15:54			
Read mode	TIMED	TIMED			

## 2.3 Aspect



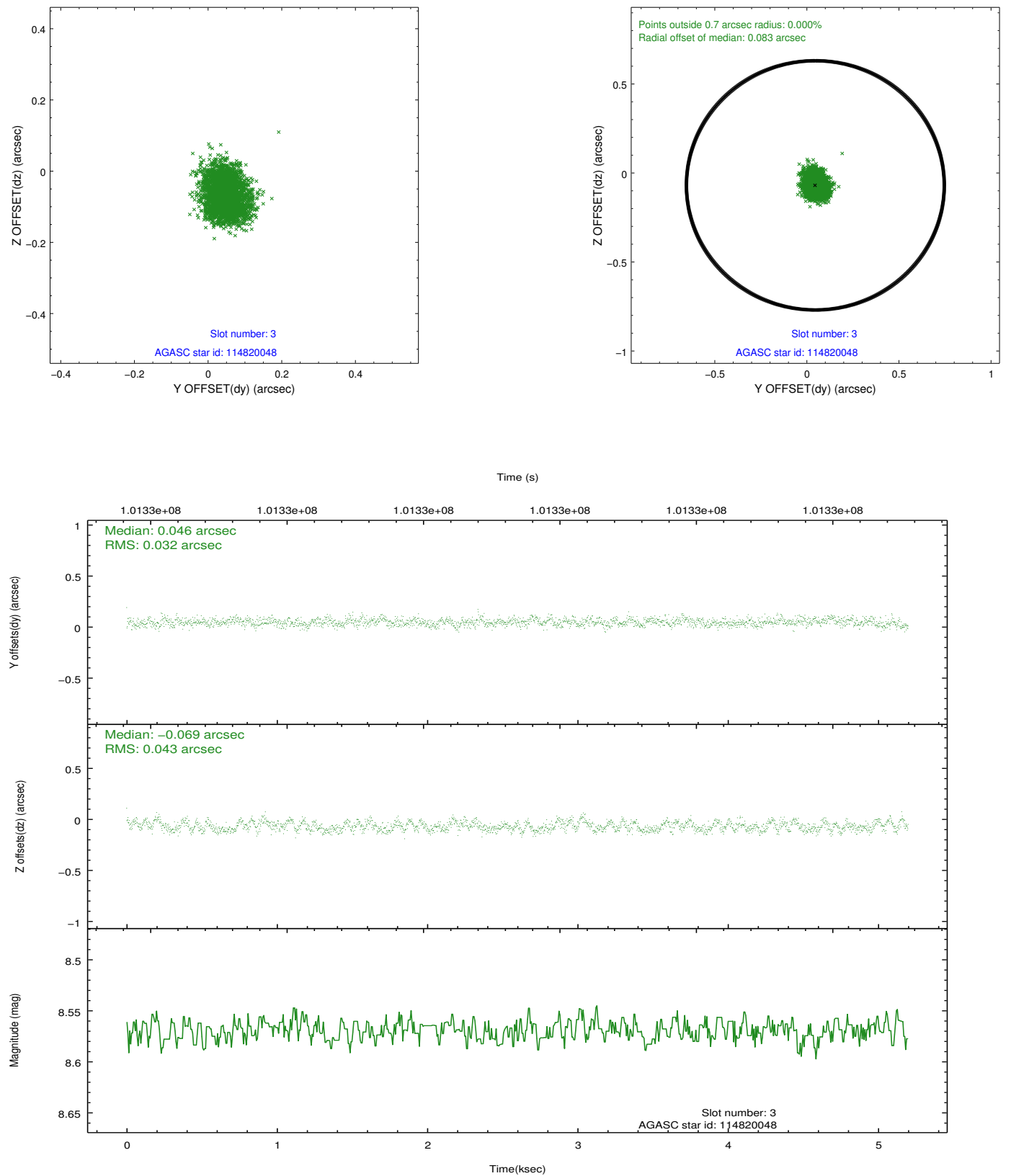


### Slot Statistics

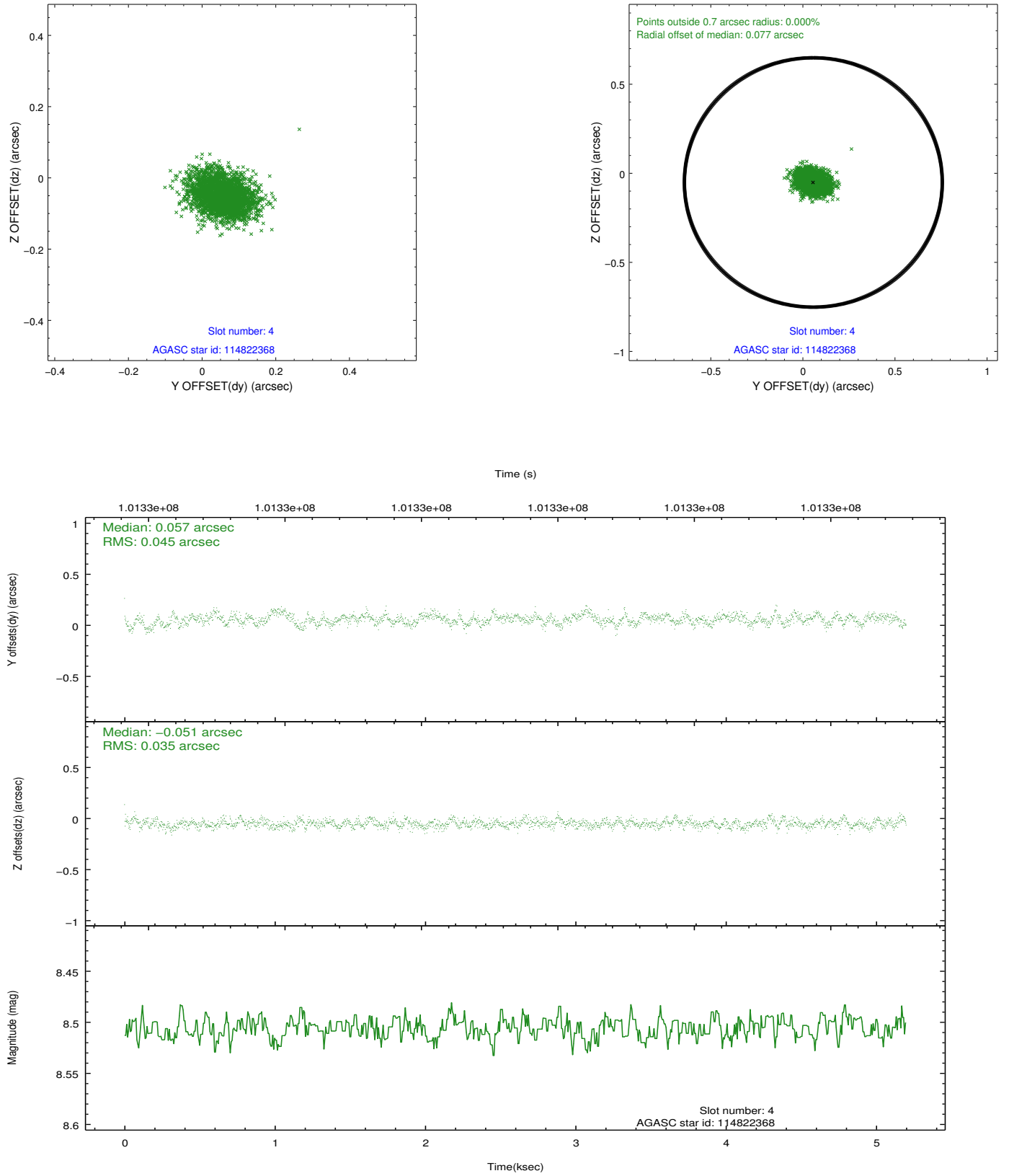
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1269	-0.032	-0.005	0.006	0.010	0.000000	0.000000	-754.88	-1726.19
1	FID	ACIS-S-4	7.20	1269	-0.029	0.017	0.005	0.009	0.000000	0.000000	2157.83	181.18
2	FID	ACIS-S-5	7.24	1269	0.030	-0.003	0.006	0.011	0.000000	0.000000	-1806.20	176.07
3	GUIDE	114820048	8.57	2536	0.046	-0.069	0.059	0.090	184.777986	10.593434	-60.41	819.95
4	GUIDE	114822368	8.51	2536	0.057	-0.051	0.060	0.100	184.977820	10.484355	-863.91	725.67
5	GUIDE	114819552	8.95	2536	-0.157	0.084	0.082	0.133	185.130690	11.375327	573.27	-2192.00
6	GUIDE	114824808	8.96	2534	0.015	0.114	0.073	0.120	184.408420	11.215424	2307.42	-236.52
7	GUIDE	114823888	8.88	2534	0.032	-0.078	0.096	0.140	184.917671	10.024564	-1657.73	2192.85

## 2.4 Star Slots

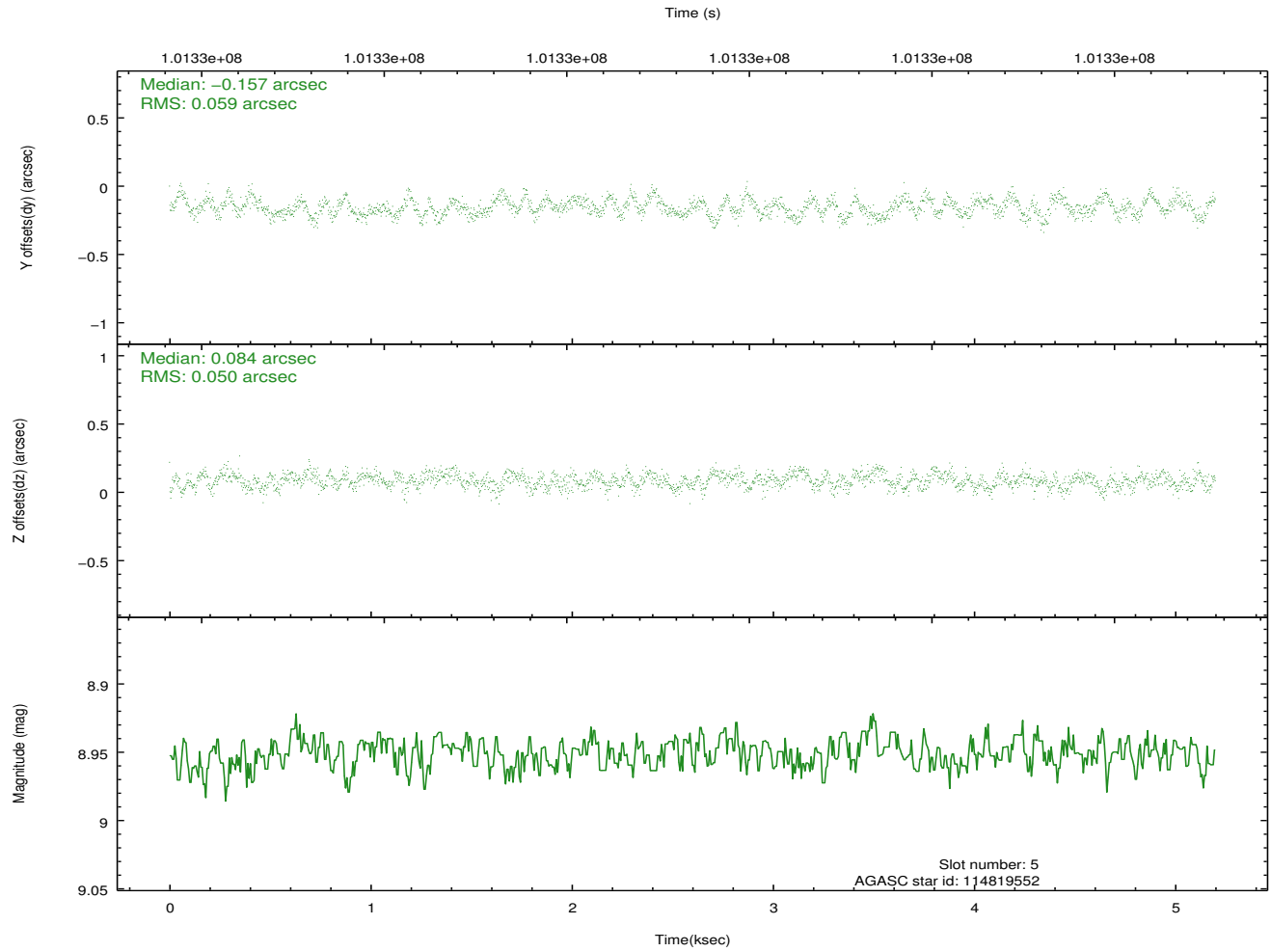
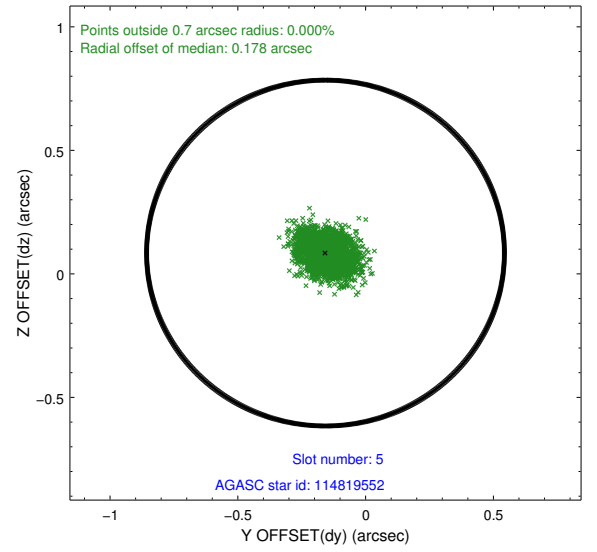
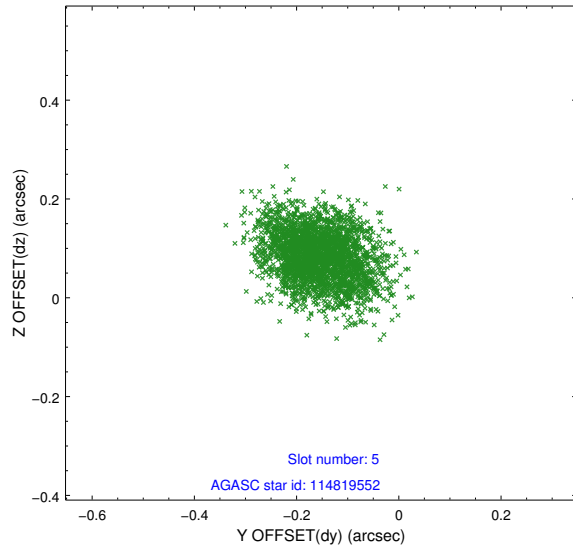
### 2.4.1 Slot 3



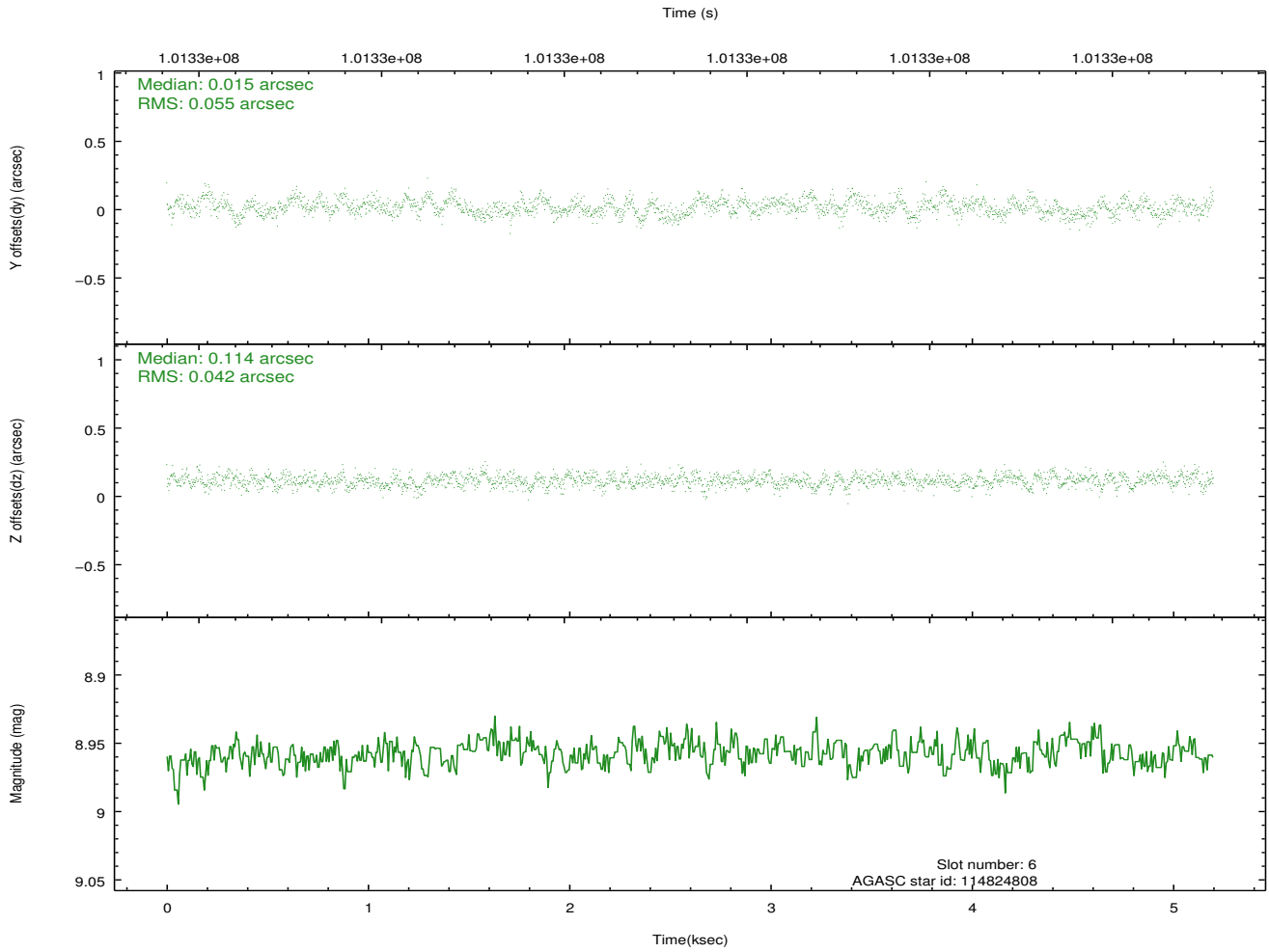
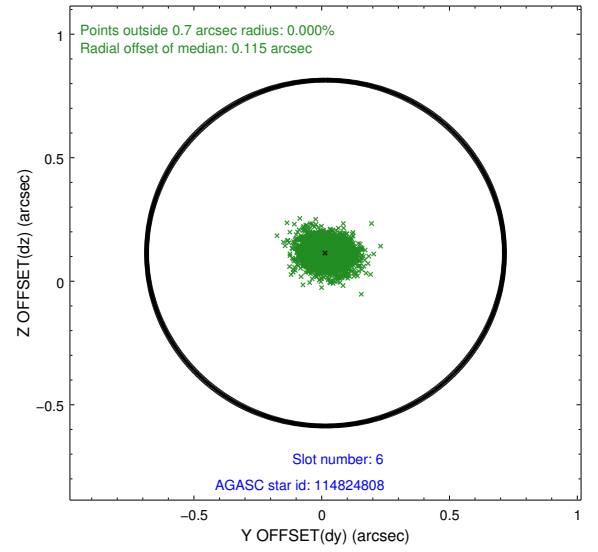
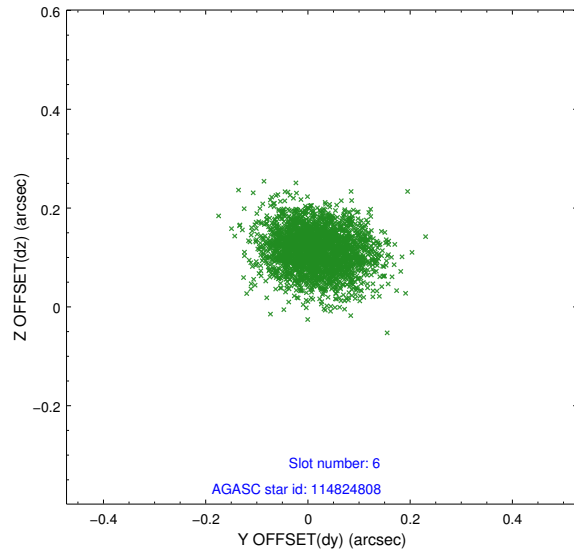
## 2.4.2 Slot 4



### 2.4.3 Slot 5

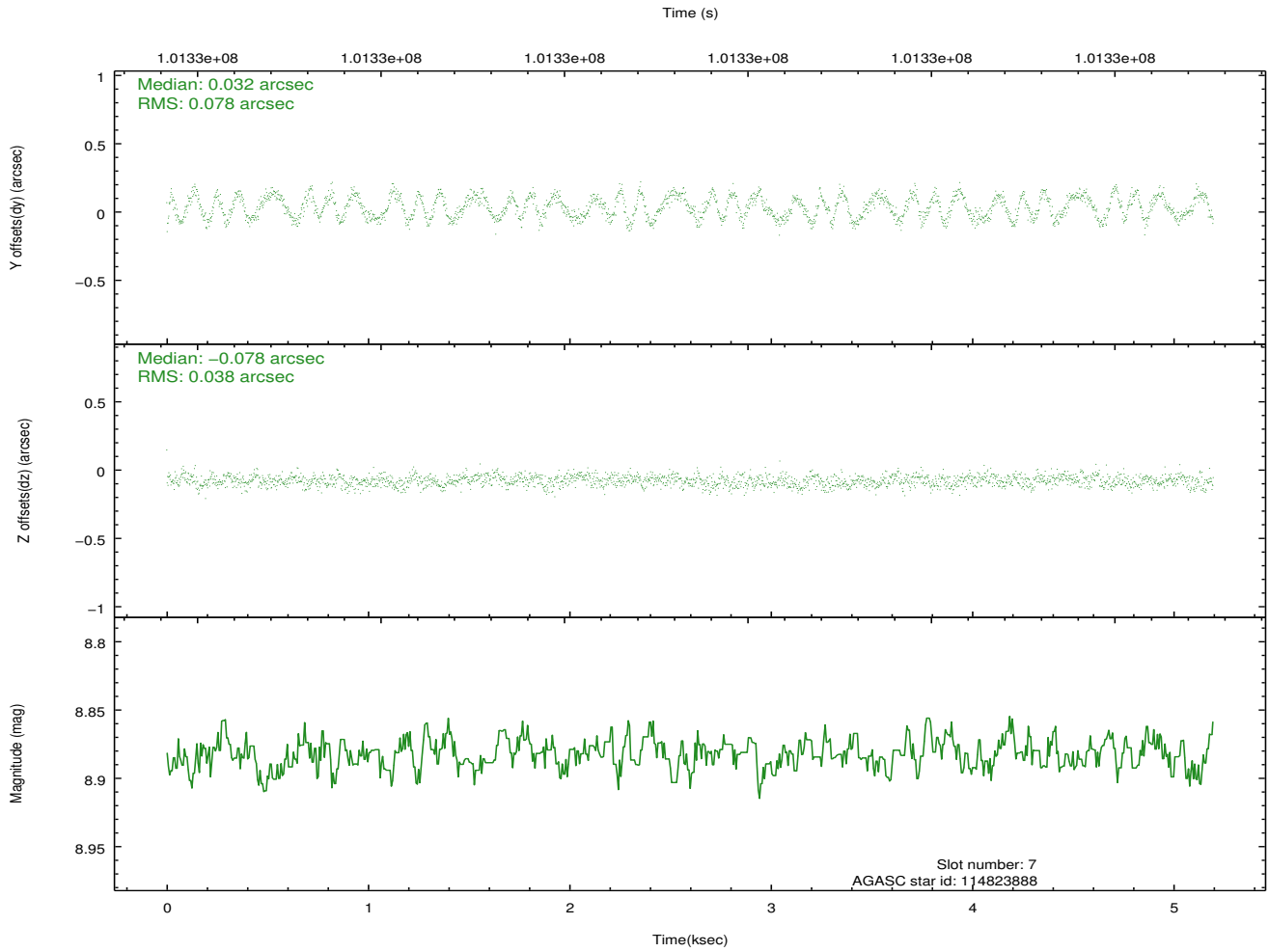
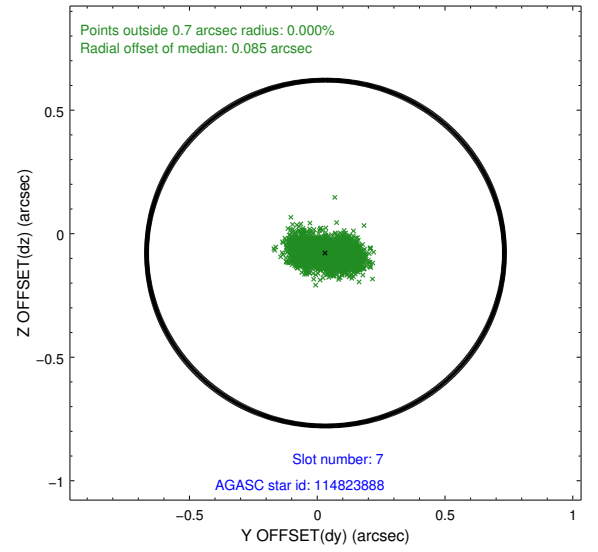
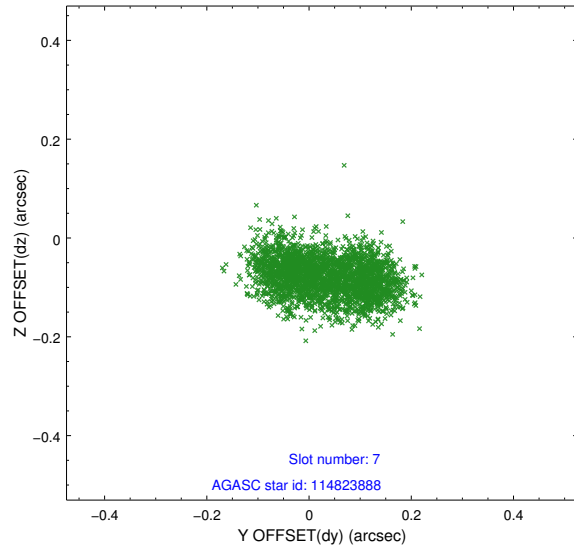


## 2.4.4 Slot 6



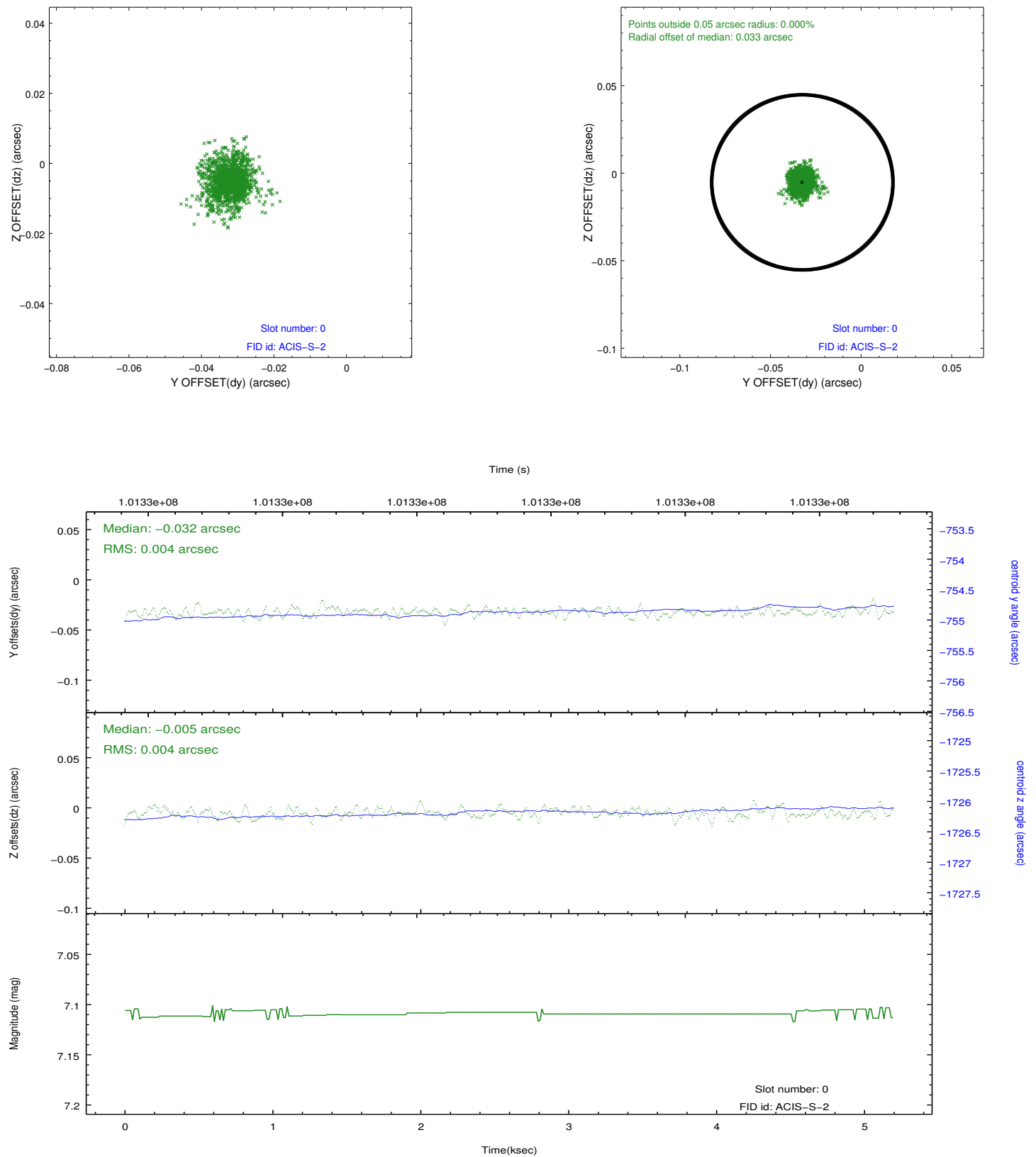


## 2.4.5 Slot 7

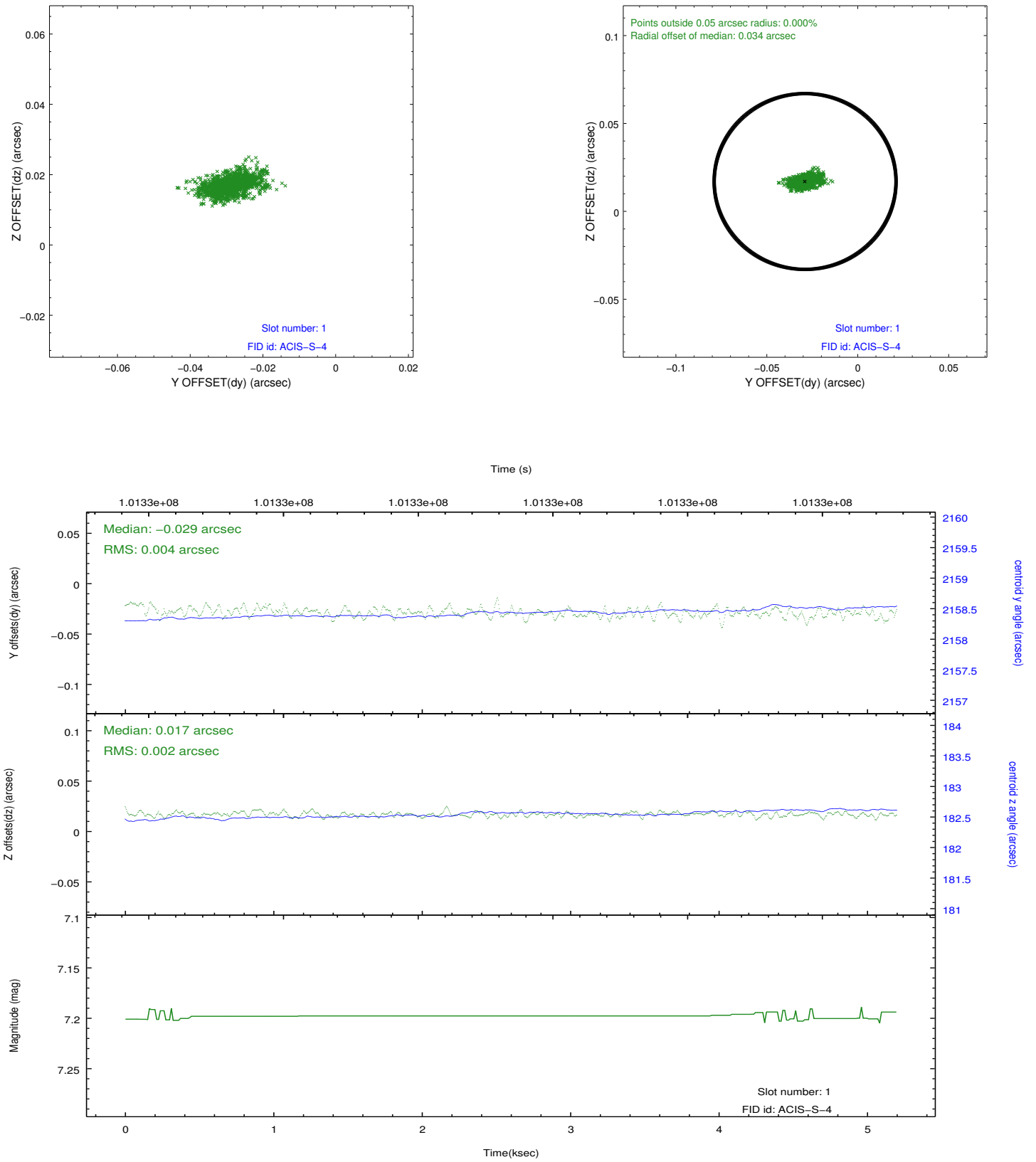


## 2.5 FID Slots

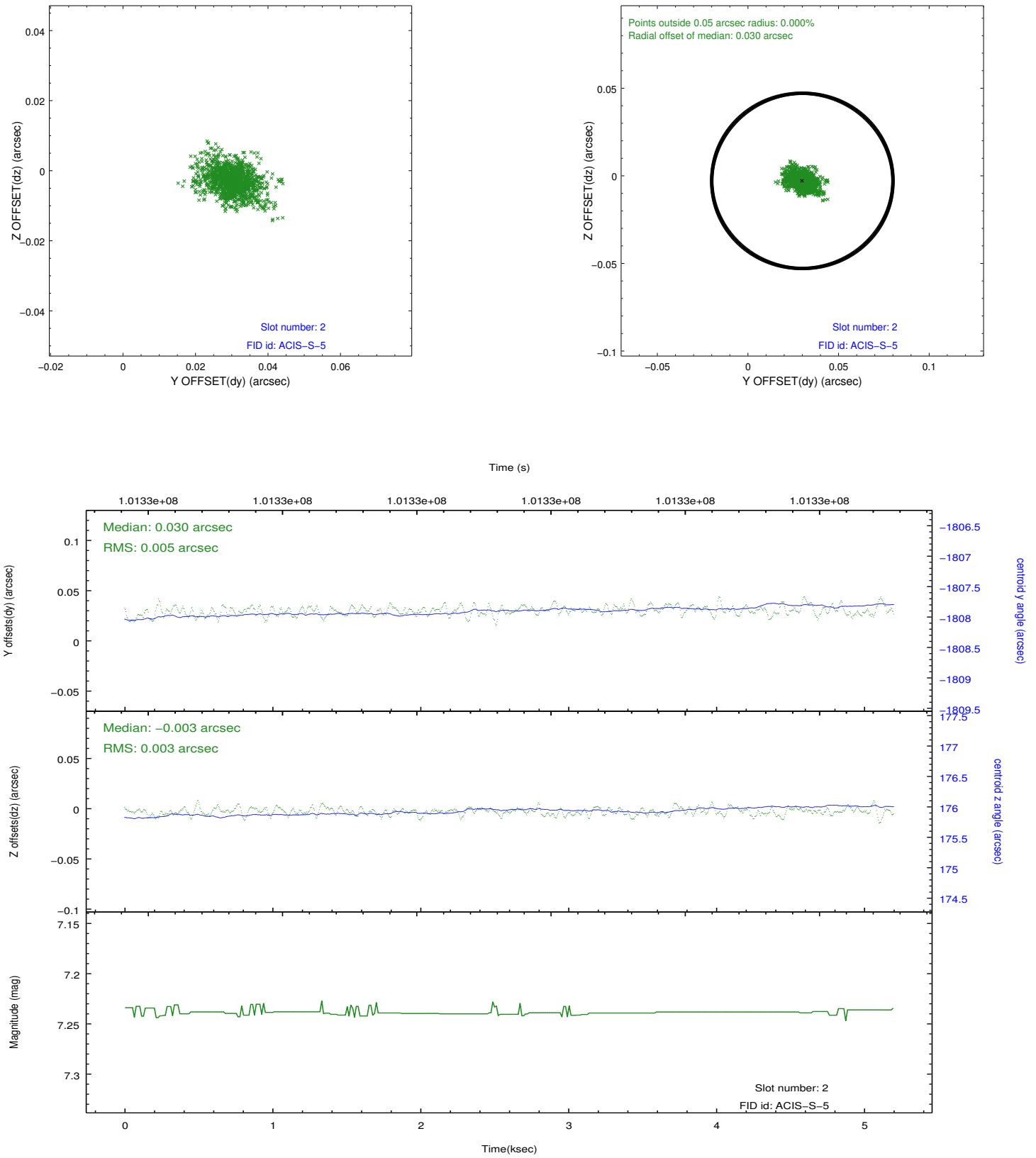
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.7

### A.2 Comments