

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10153 - L2 Version 2  
Chandra X-Ray Center

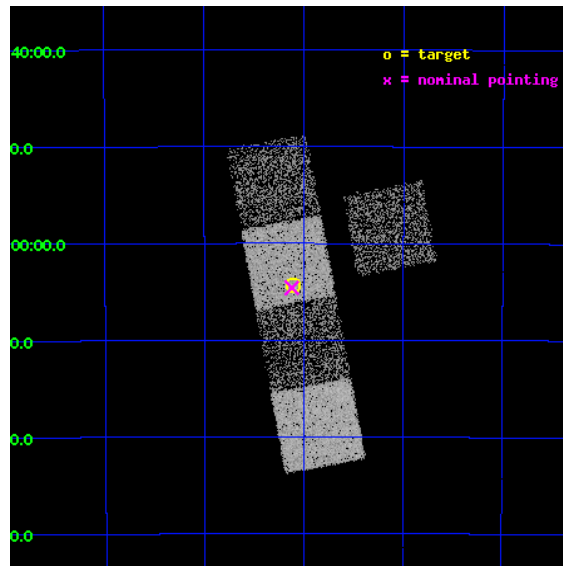
L2 Processing Date : Jun 1 2012

## 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

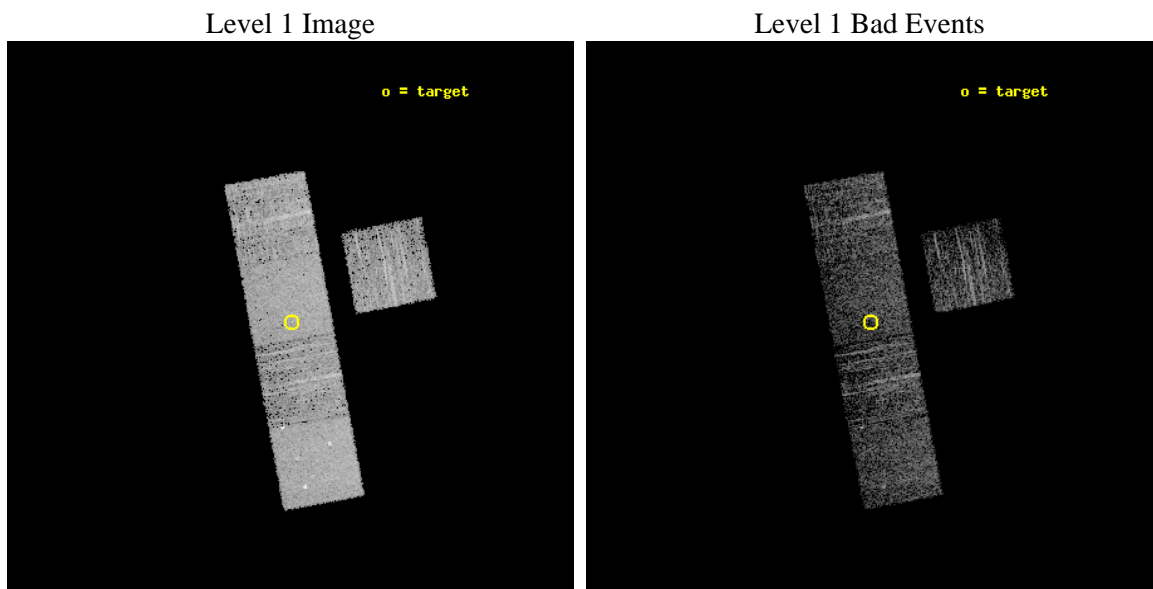
seq_num	501080	Sequence number
obs_id	10153	Observation id
title	Identifying the Nearest and Brightest Neutron Stars	Proposal title
observer	Prof. Derek Fox	Principal investigator
object	1RXSJ005807.5-460420	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	14.5275	Observer's specified target RA [deg]
dec_targ	-46.071889	Observer's specified target Dec [deg]
ra_nom	14.529976791698	Nominal RA [deg]
dec_nom	-46.076614524449	Nominal Dec [deg]
roll_nom	259.45412878594	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2033.6000156403	Sum of GTIs [s]
livetime	2007.0295343214	Livetime [s]
ontime3	2033.6000156403	Sum of GTIs [s]
ontime5	2033.6000156403	Sum of GTIs [s]
ontime6	2033.6000156403	Sum of GTIs [s]
ontime7	2033.6000156403	Sum of GTIs [s]
ontime8	2033.6000156403	Sum of GTIs [s]
l2events	33270	Number of level 2 events



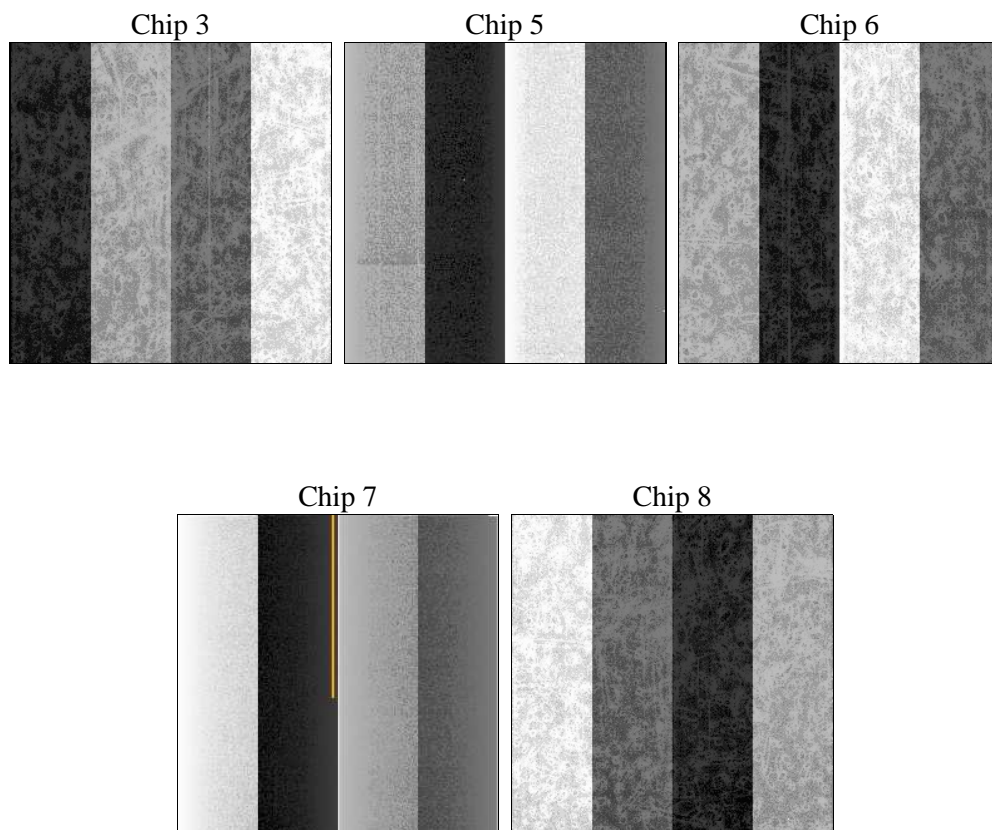
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2033.6000156403	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime3	2033.6000156403	Sum of GTIs [s]
date	2012-06-01T05:48:59	Date and time of file creation	ontime5	2033.6000156403	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	2033.6000156403	Sum of GTIs [s]
			ontime7	2033.6000156403	Sum of GTIs [s]
			ontime8	2033.6000156403	Sum of GTIs [s]
			l1events	134046	Number of level 1 events

### 2.1.4 Events

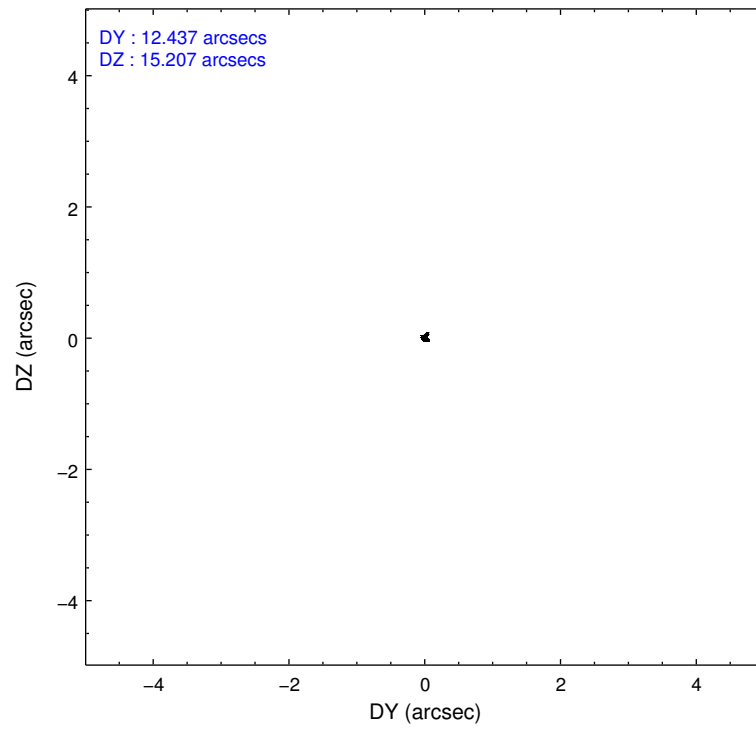
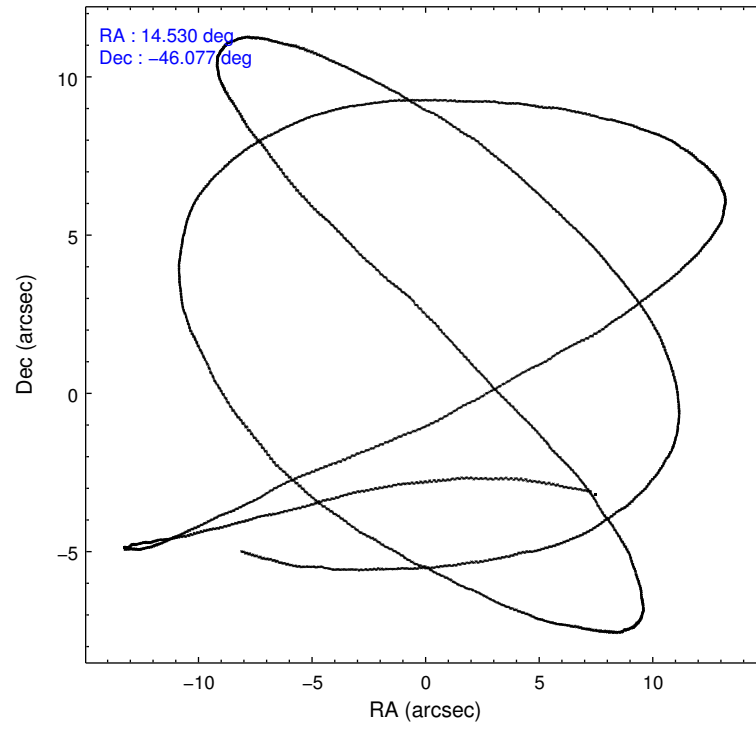
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	21657	34149	21986	29366	26888
rejected events	19170	18256	19327	17224	20729
rejected %	88%	53%	87%	58%	77%

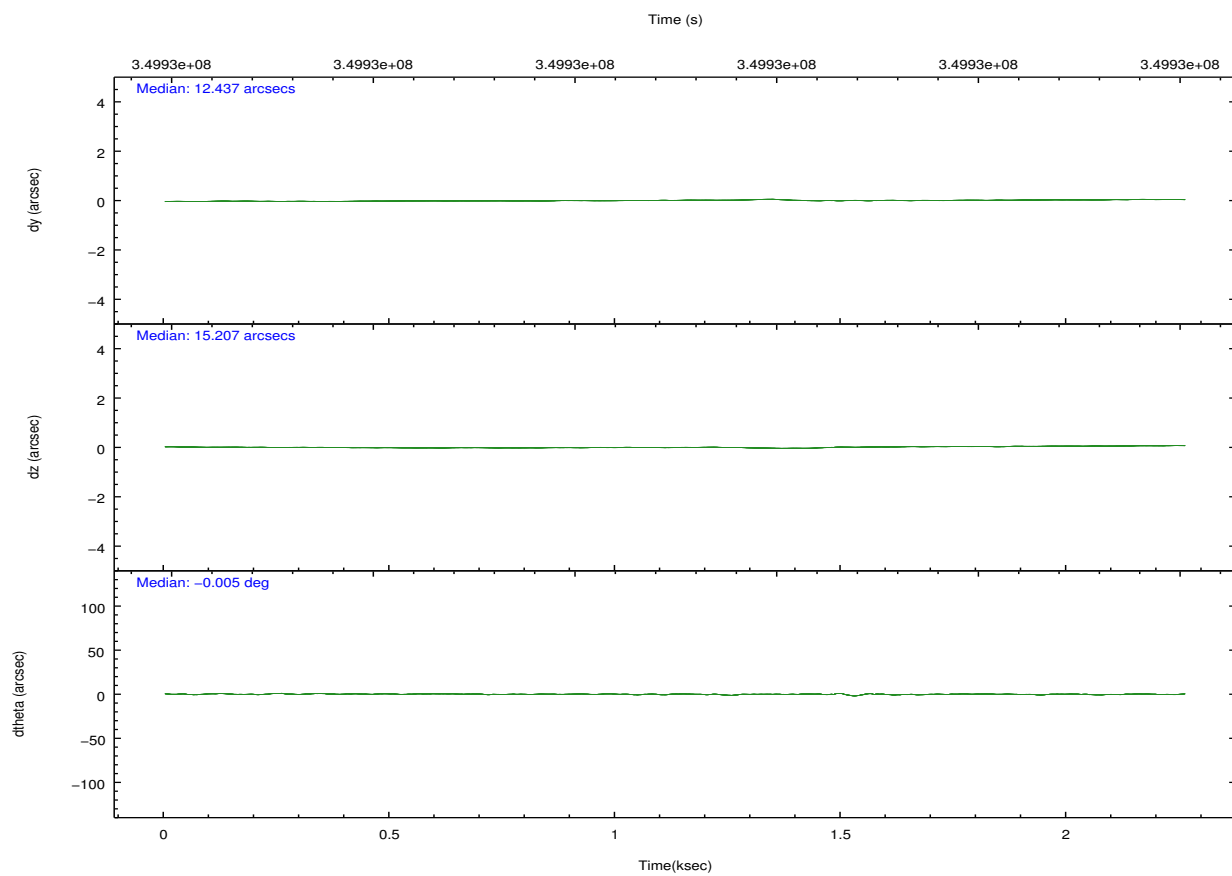
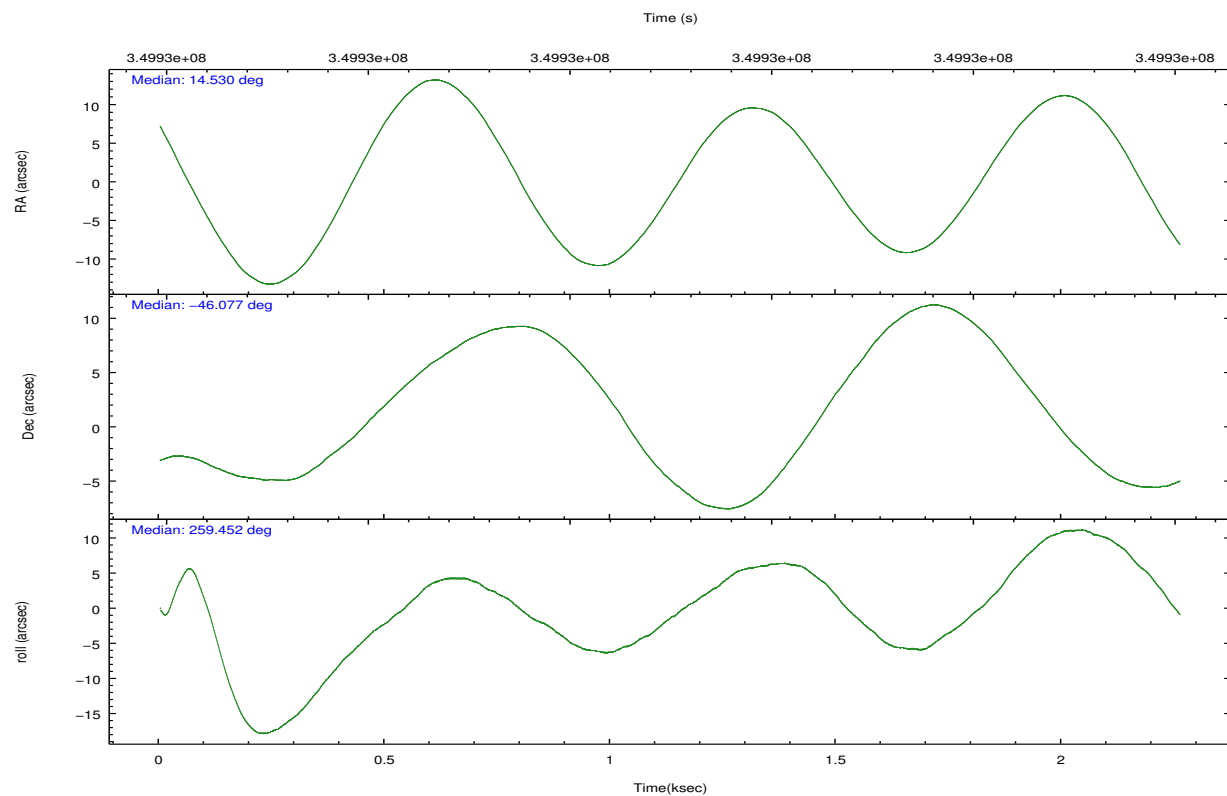
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1093	1732	1024	1027	1843
	5%	5%	4%	3%	6%
grade 1 events	22	204	9	31	23
	0%	0%	0%	0%	0%
grade 2 events	484	4904	569	2505	1464
	2%	14%	2%	8%	5%
grade 3 events	250	559	257	1015	656
	1%	1%	1%	3%	2%
grade 4 events	244	524	263	1014	575
	1%	1%	1%	3%	2%
grade 5 events	961	2369	987	2703	1304
	4%	6%	4%	9%	4%
grade 6 events	419	8198	551	6611	1634
	1%	24%	2%	22%	6%
grade 7 events	18184	15659	18326	14460	19389
	83%	45%	83%	49%	72%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	14.516394	14.52997679169836	CCD I2 on	N	N
[deg] Pointing Dec	-46.050765	-46.07661452444949	CCD I3 on	Y	Y
[deg] Pointing Roll	259.287825	259.4541287859378	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	349926377.184000	349925408.13478	CCD S5 on	N	N
Observation start date	2009-02-02T01:45:11	2009-02-02T01:30:08	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	349928377.184000	349929684.94749	On-chip summing requested	N	N
Observation end date	2009-02-02T02:18:31	2009-02-02T02:41:24	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





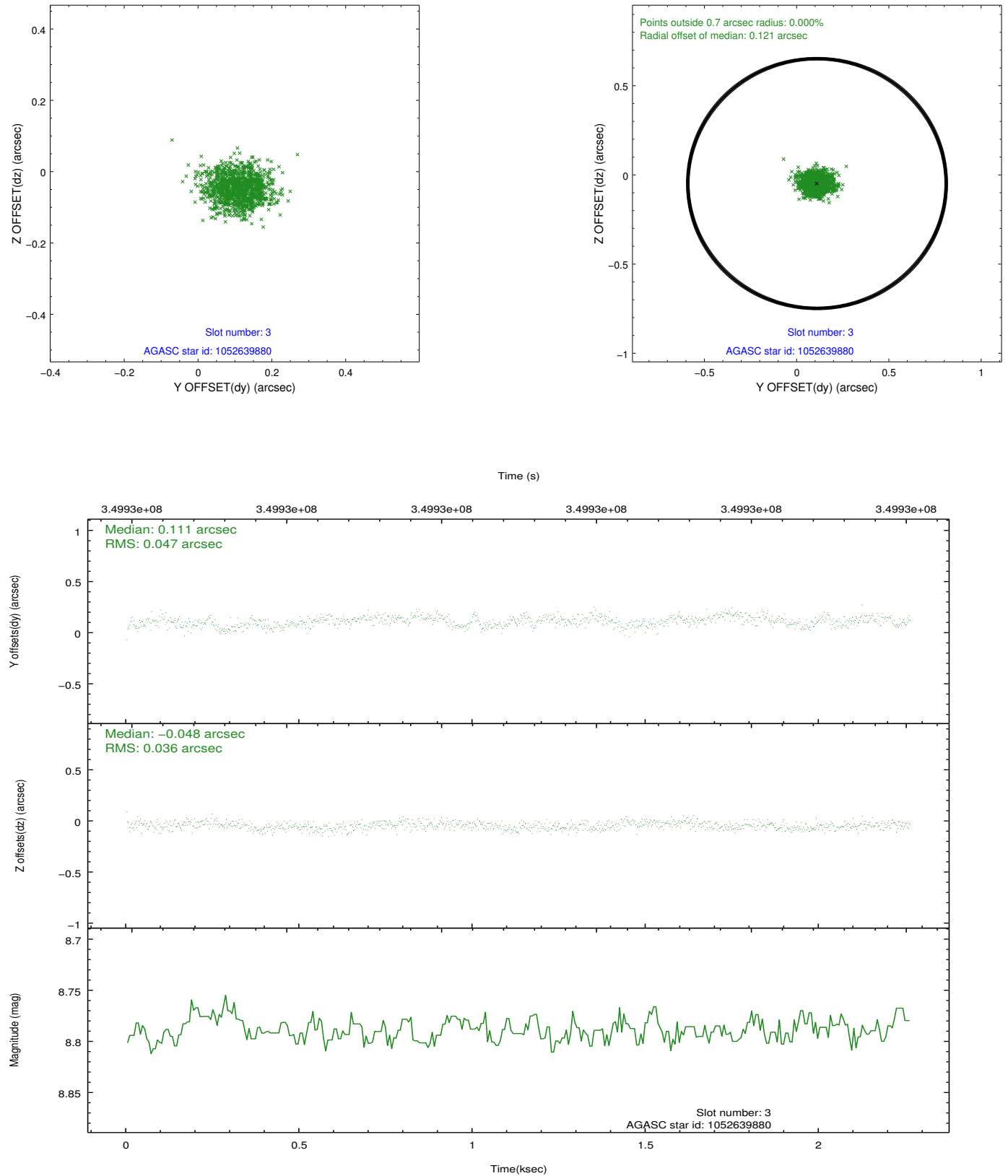
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.90	552	-0.045	-0.011	0.006	0.009	0.000000	0.000000	-765.35	-1736.57
1	FID	ACIS-S-4	6.99	551	0.134	0.025	0.005	0.009	0.000000	0.000000	2146.75	169.00
2	FID	ACIS-S-5	7.02	552	-0.120	-0.005	0.006	0.011	0.000000	0.000000	-1814.61	165.86
3	GUIDE	1052639880	8.79	1104	0.111	-0.048	0.063	0.100	14.870716	-46.613354	1828.57	1237.80
4	GUIDE	1052644392	8.91	1103	0.169	0.040	0.079	0.128	14.725996	-46.516744	1553.43	823.66
5	GUIDE	1052777944	9.47	1101	-0.073	0.090	0.107	0.177	15.164243	-45.556473	-2045.22	1276.21
6	GUIDE	1052779560	7.80	1104	-0.121	-0.032	0.063	0.100	15.254583	-46.343207	699.33	2000.82
7	GUIDE	1052777664	8.13	1103	-0.082	-0.047	0.074	0.119	15.429465	-46.215613	172.96	2349.42

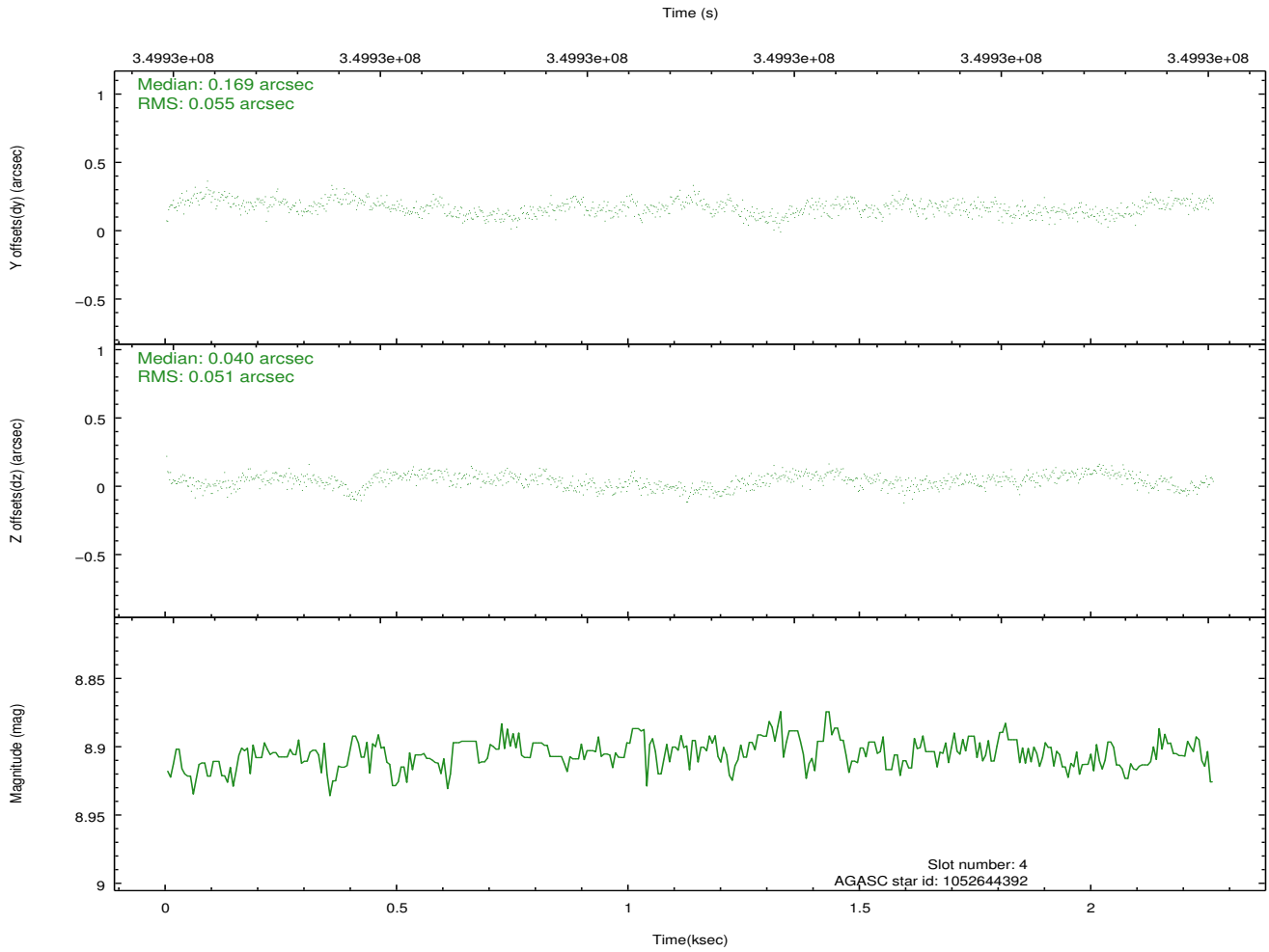
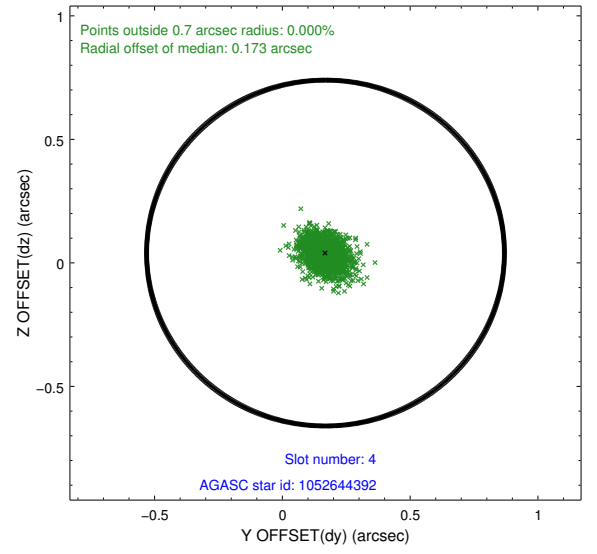
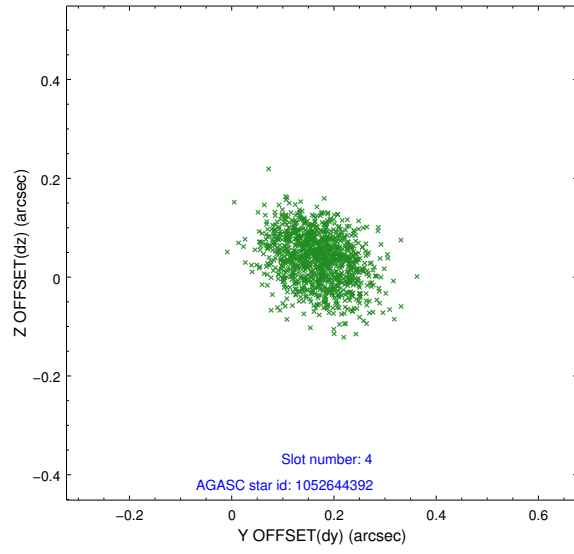


## 2.4 Star Slots

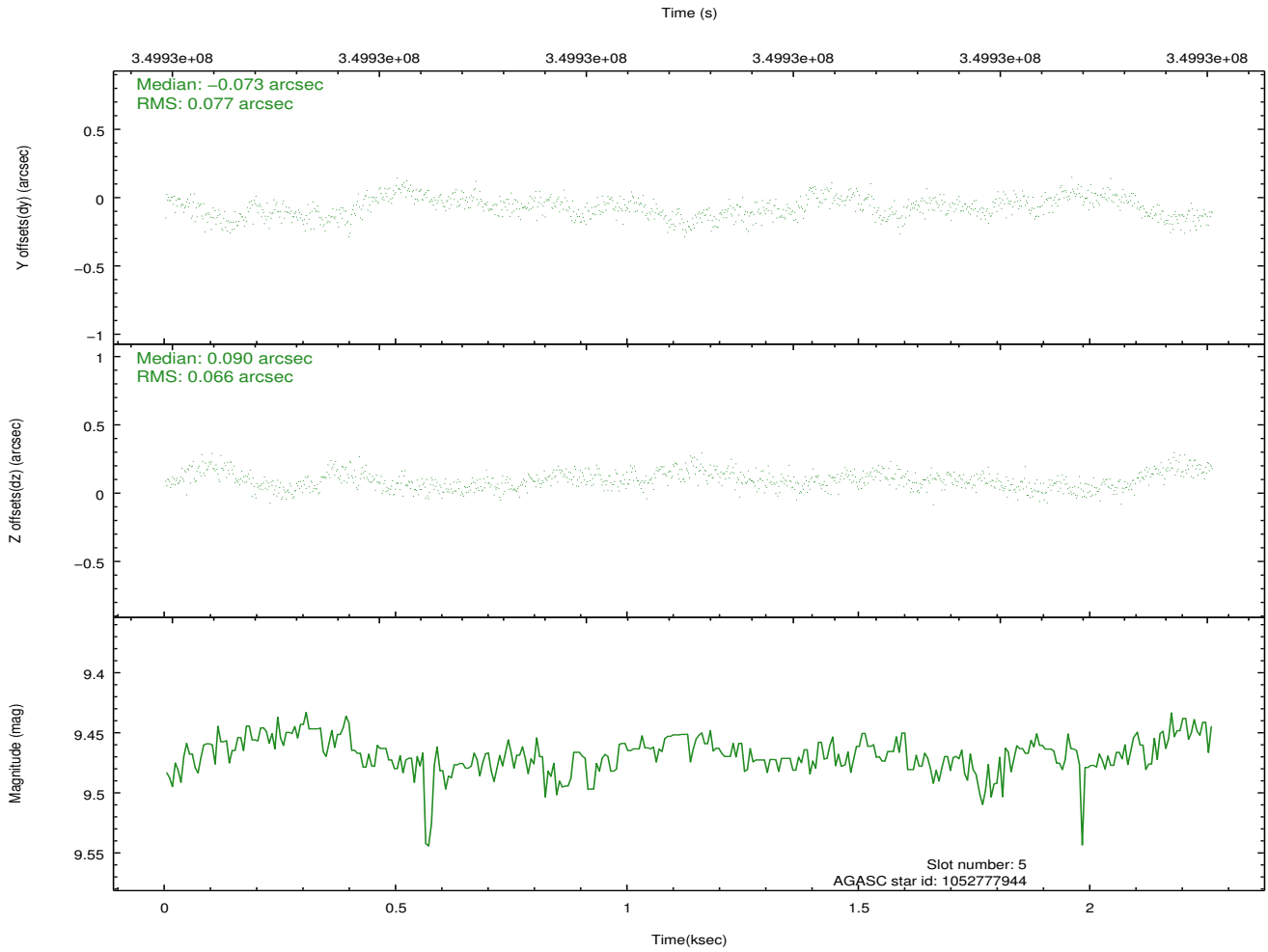
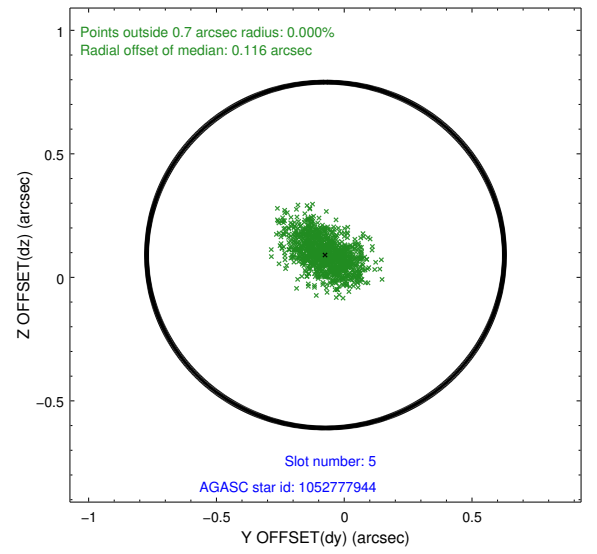
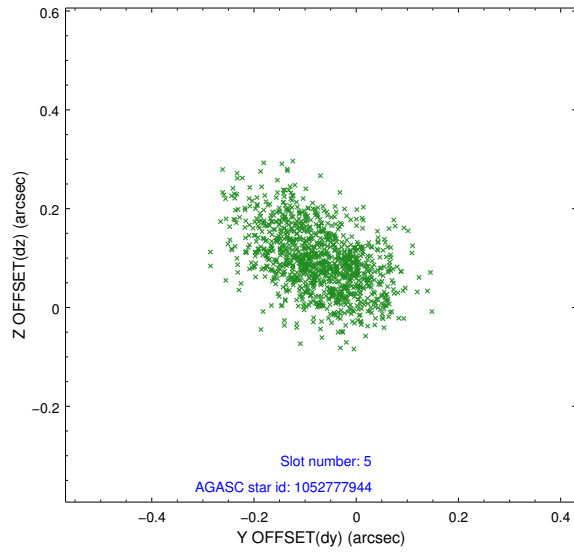
### 2.4.1 Slot 3



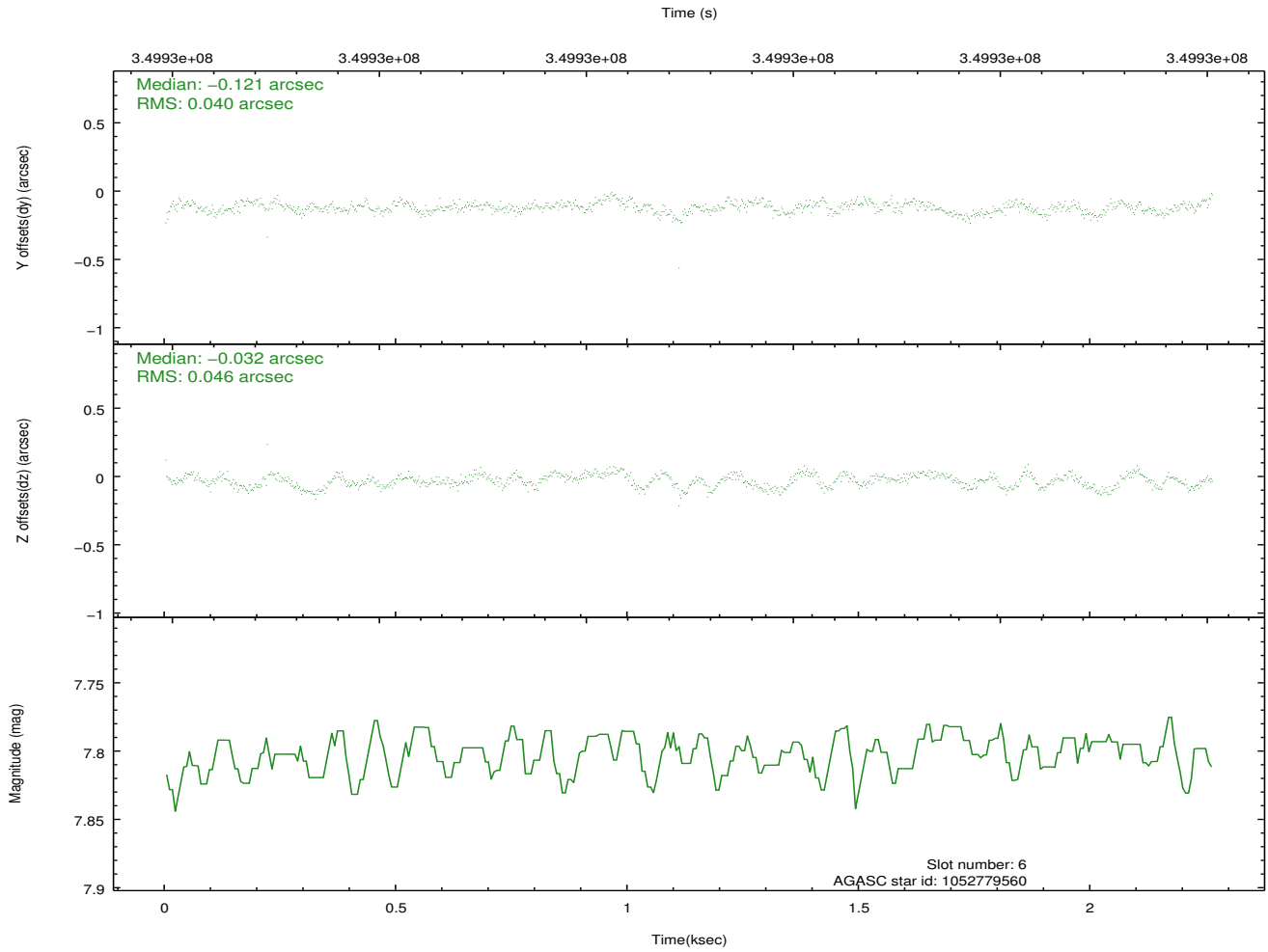
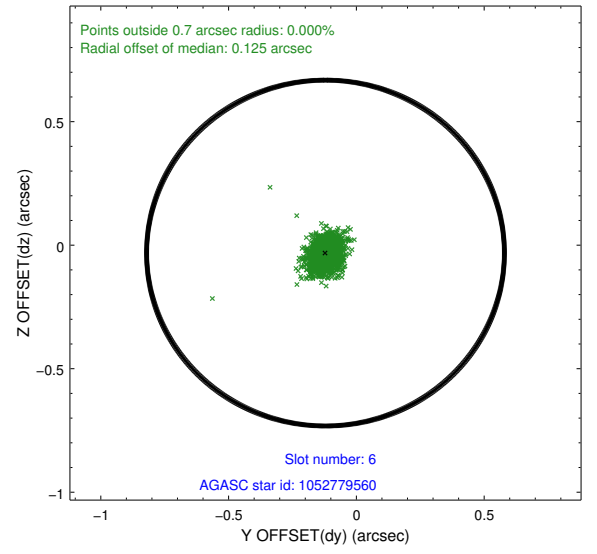
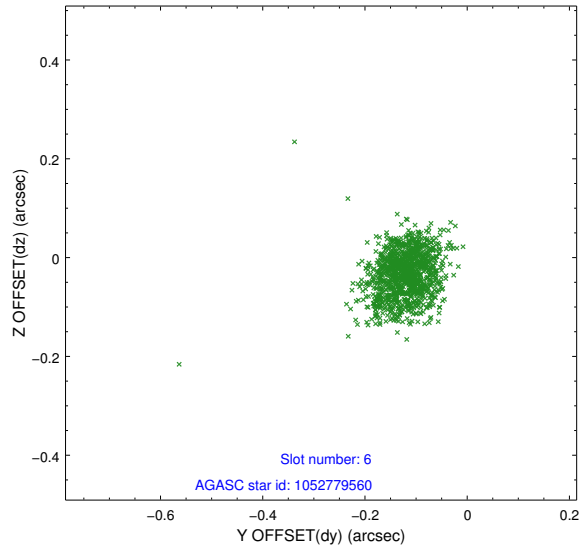
## 2.4.2 Slot 4



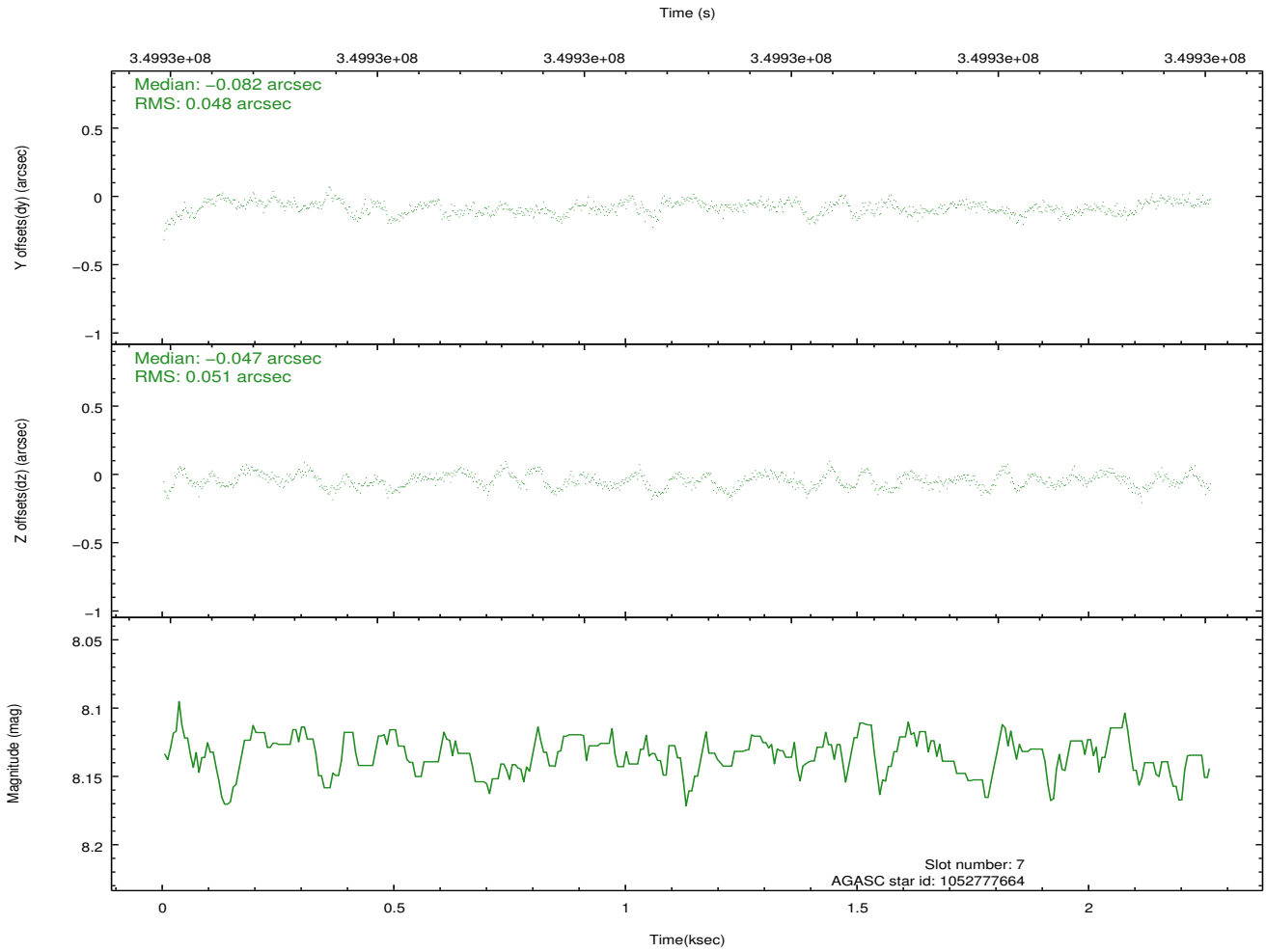
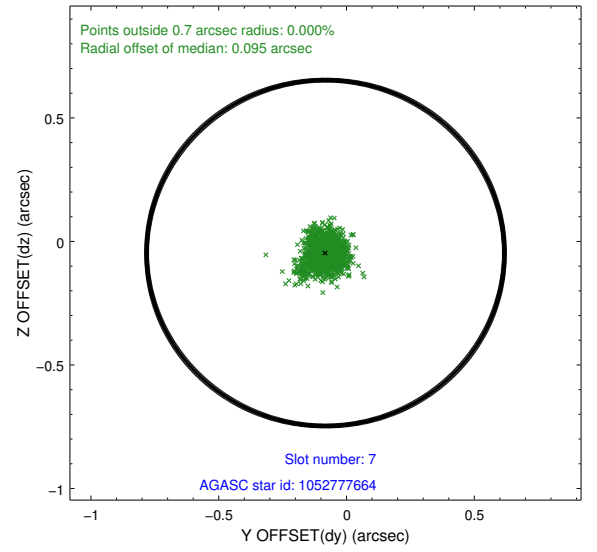
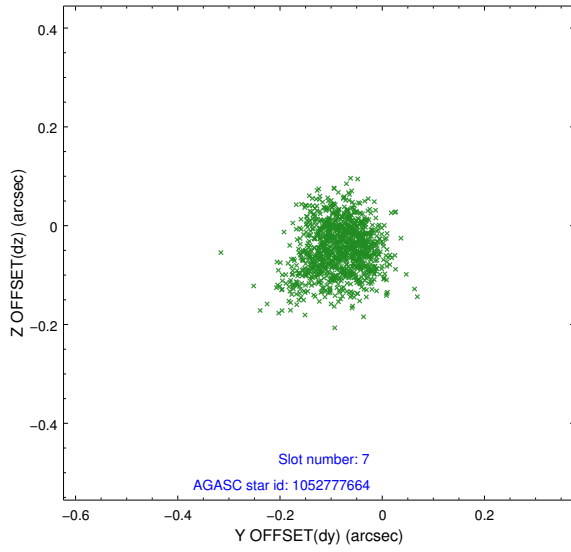
### 2.4.3 Slot 5



## 2.4.4 Slot 6

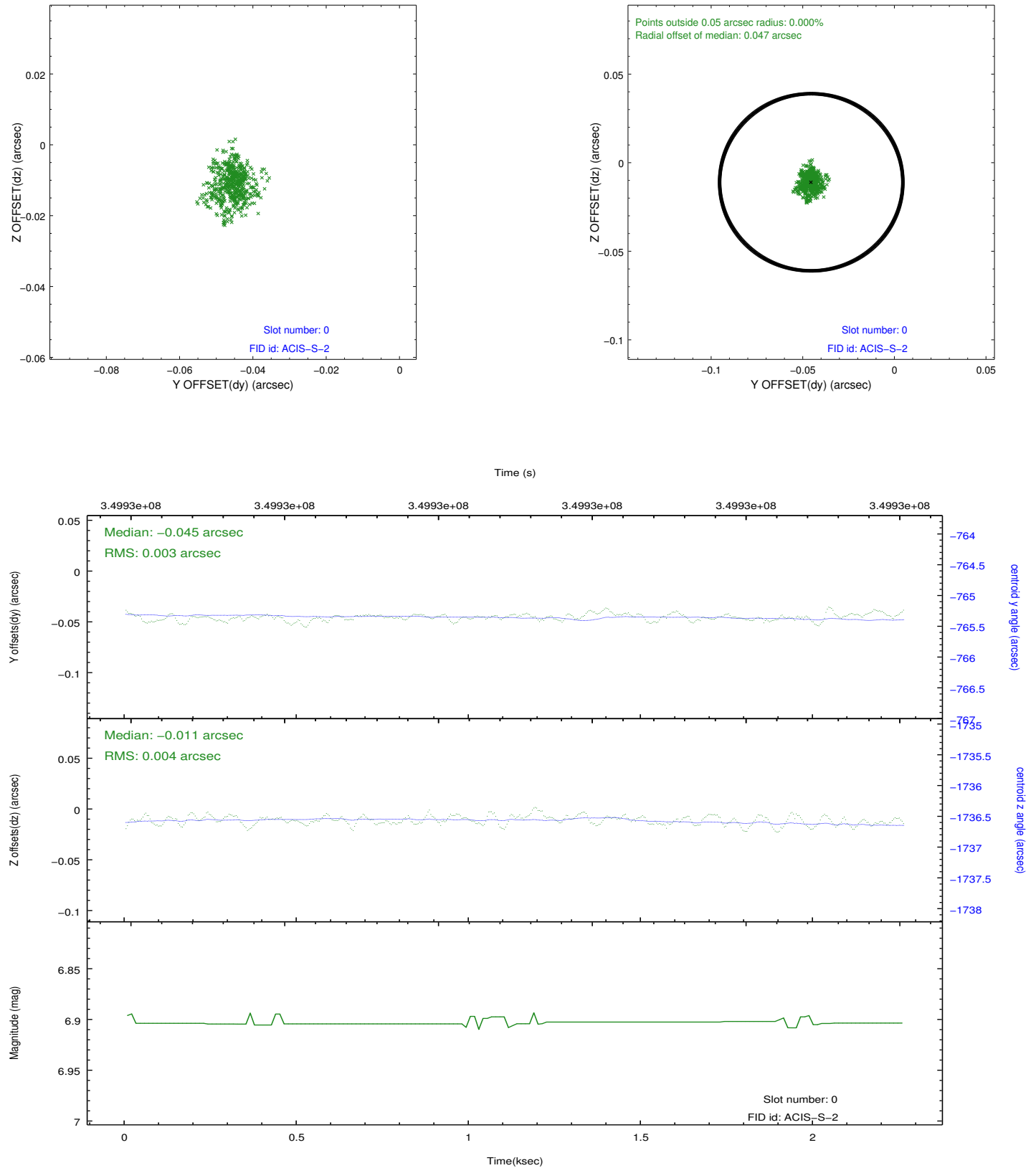


## 2.4.5 Slot 7

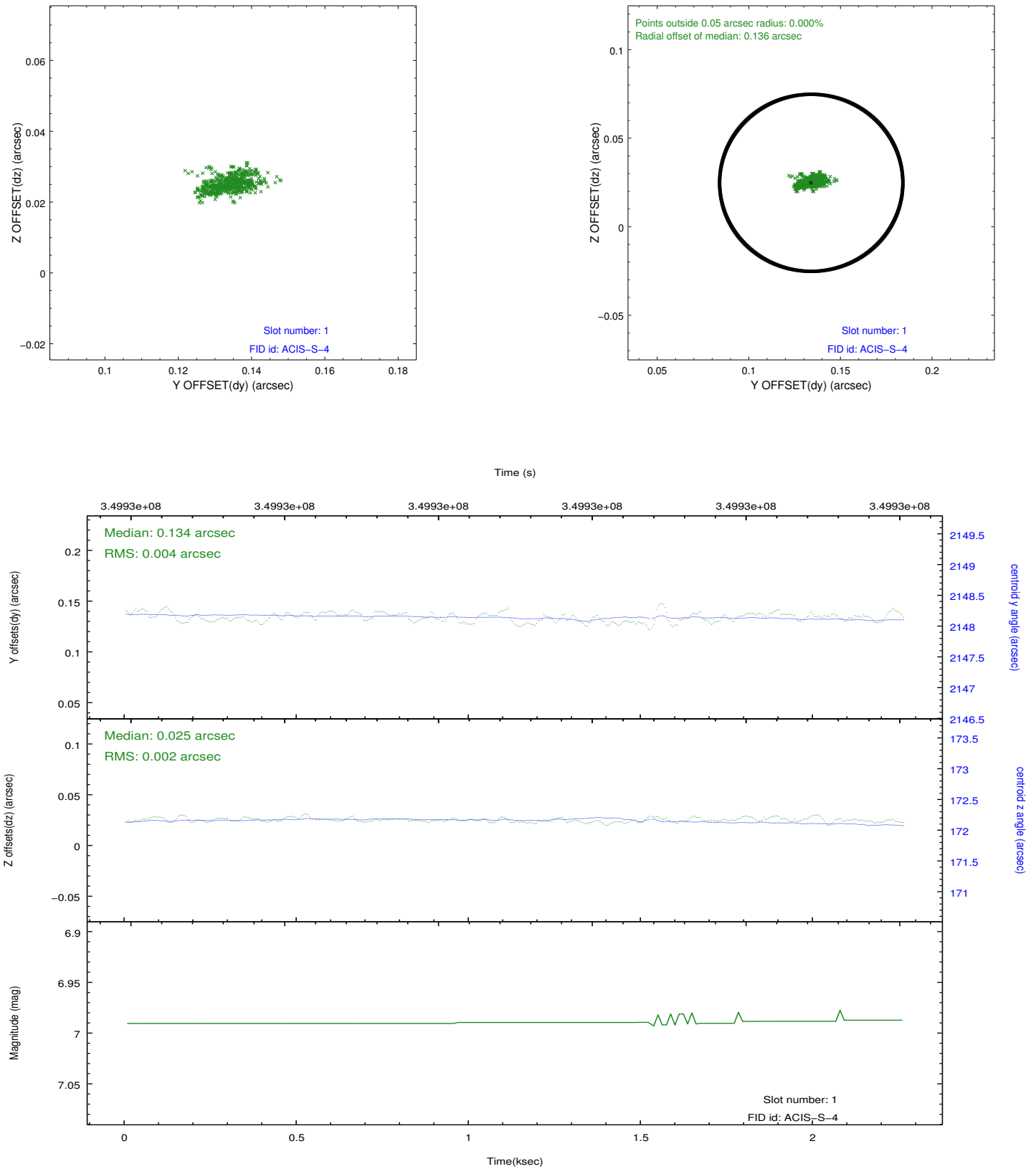


## 2.5 FID Slots

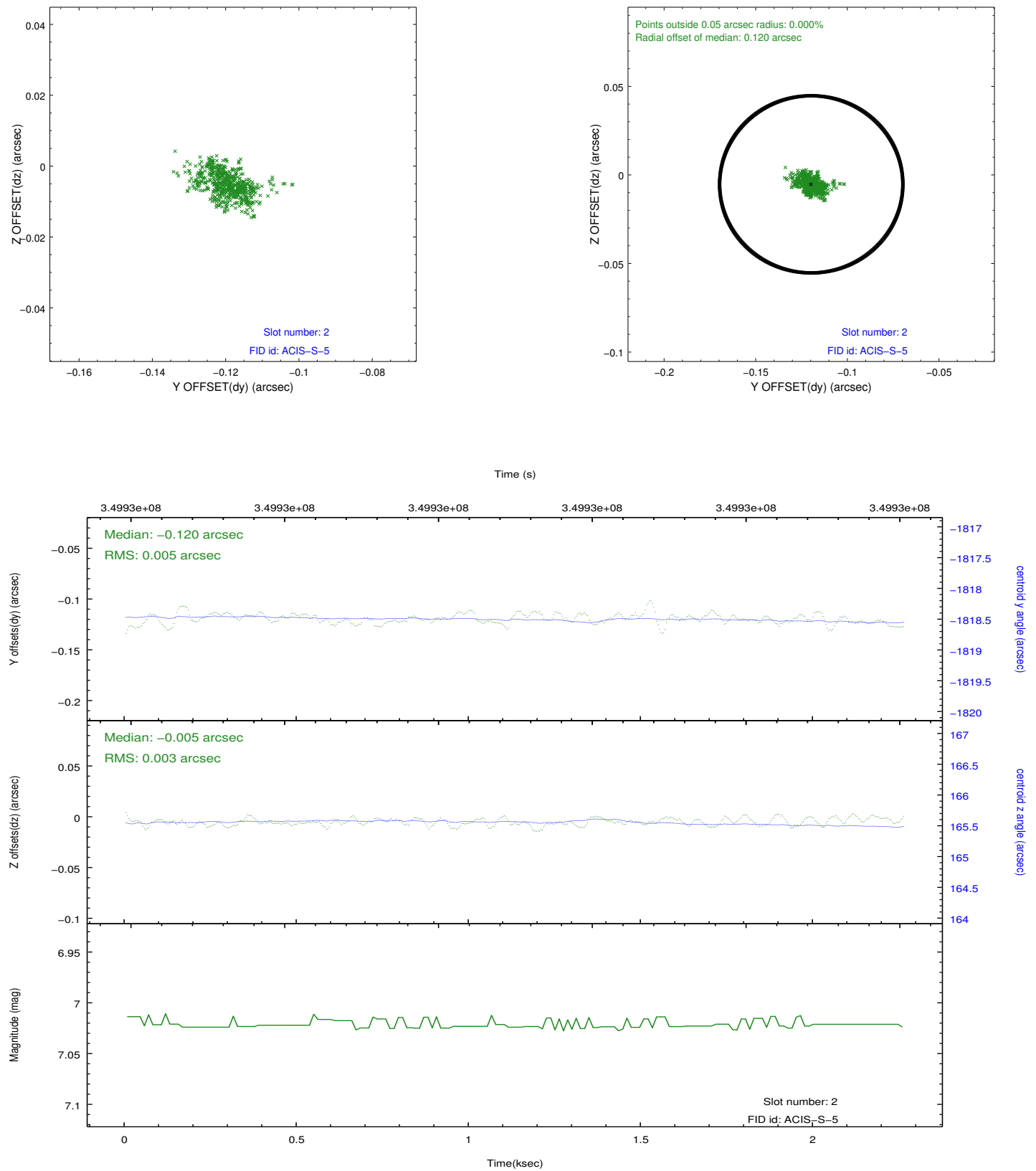
### 2.5.1 Slot 0



## 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)	2012.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.03360001

### A.2 Comments