

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2057 - L2 Version 3  
Chandra X-Ray Center

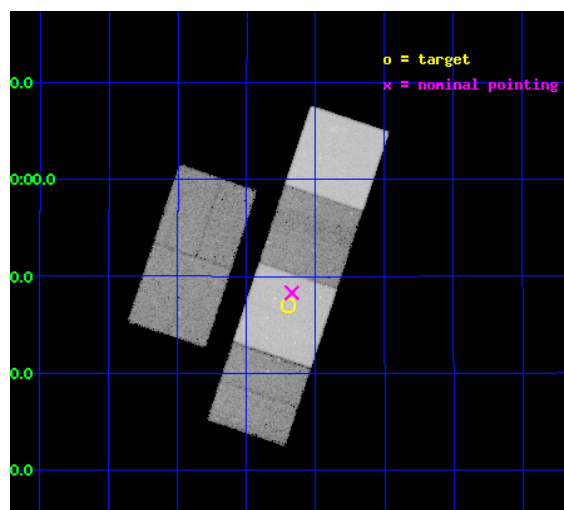
L2 Processing Date : Sep 20 2012

## 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

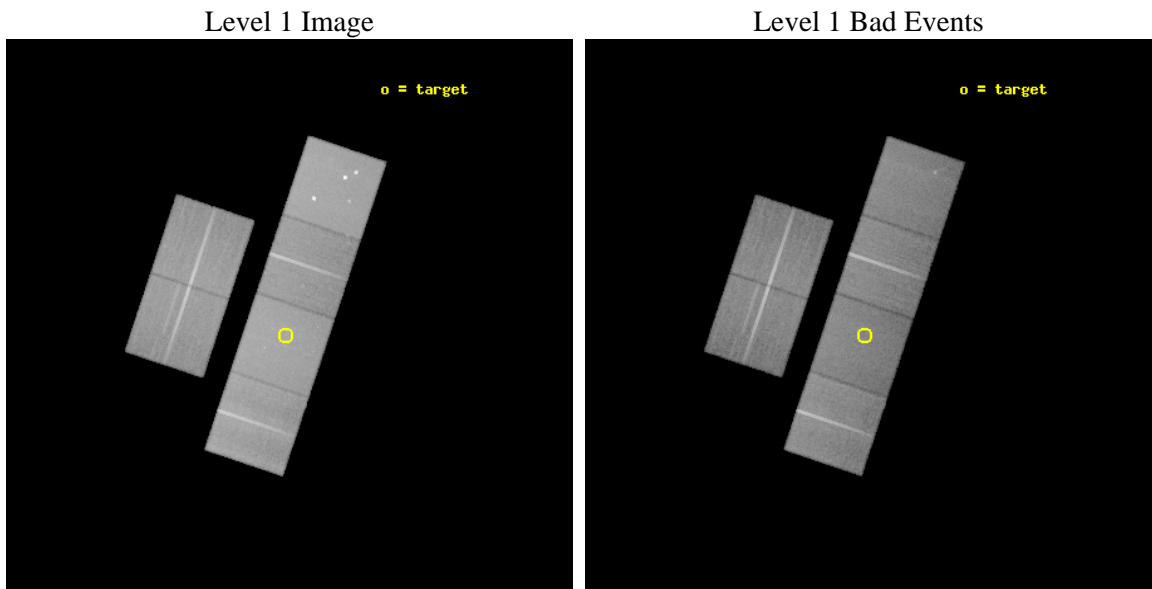
seq_num	600191	Sequence number
obs_id	2057	Observation id
title	THE X-RAY POINT SOURCE POPULATION IN SPIRAL GALAXIES	Proposal titl
observer	Dr Andrea Prestwich	Principal investigator
object	NGC 628	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	24.17375	Observer's specified target RA [deg]
dec_targ	15.783056	Observer's specified target Dec [deg]
ra_nom	24.168107747262	Nominal RA [deg]
dec_nom	15.804910129125	Nominal Dec [deg]
roll_nom	108.47164645114	Nominal Roll [deg]
revision	3	Processing version of data
ontime	46950.400043711	Sum of GTIs [s]
livetime	46355.885808221	Livetime [s]
ontime2	46950.400043711	Sum of GTIs [s]
ontime3	46950.400043711	Sum of GTIs [s]
ontime5	46950.400043711	Sum of GTIs [s]
ontime6	46943.918093294	Sum of GTIs [s]
ontime7	46950.400043711	Sum of GTIs [s]
ontime8	46950.400043711	Sum of GTIs [s]
l2events	471858	Number of level 2 events



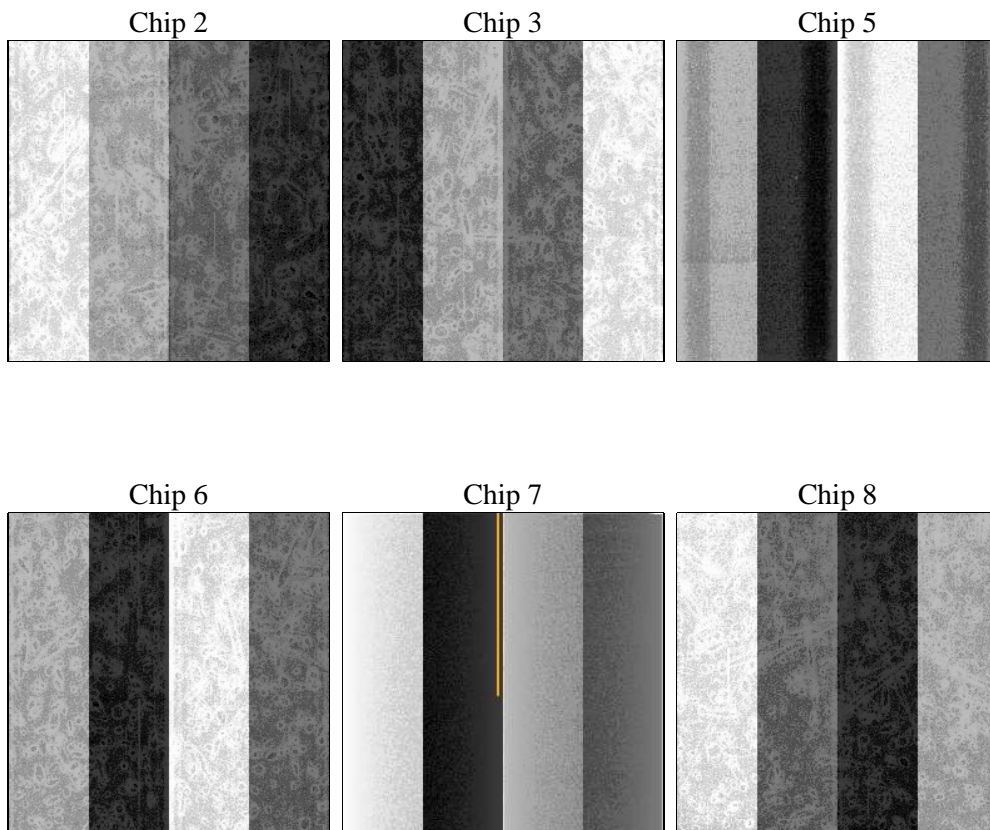
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	47000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	46950.400043711	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime2	46950.400043711	Sum of GTIs [s]
date	2012-09-20T05:54:15	Date and time of file creation	ontime3	46950.400043711	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	46950.400043711	Sum of GTIs [s]
			ontime6	46943.918093294	Sum of GTIs [s]
			ontime7	46950.400043711	Sum of GTIs [s]
			ontime8	46950.400043711	Sum of GTIs [s]
			l1events	2149399	Number of level 1 events

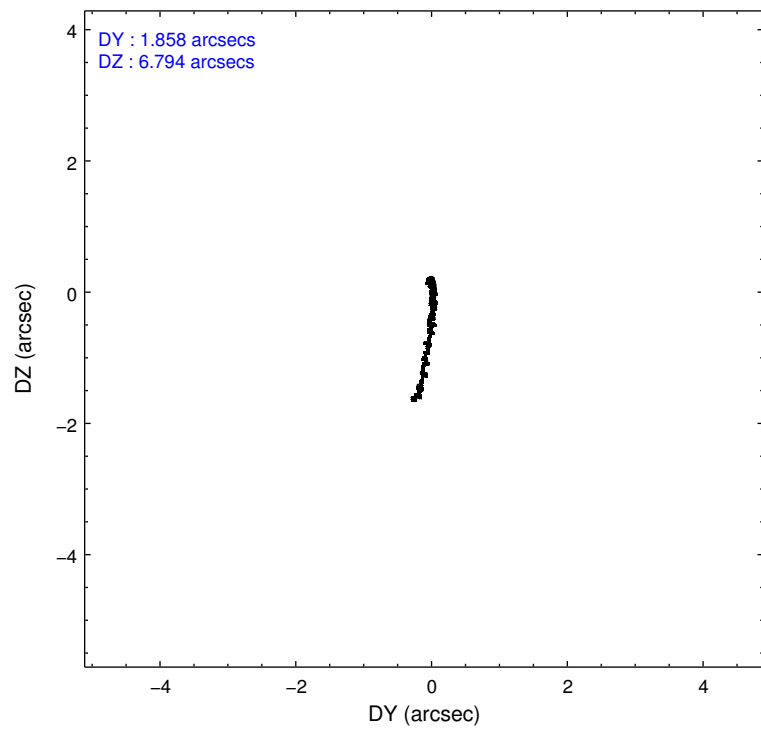
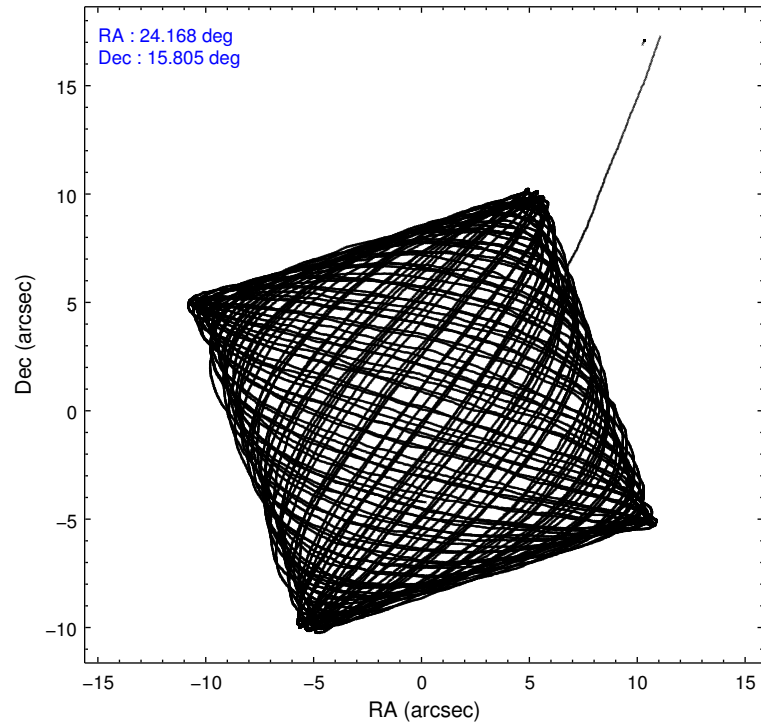
### 2.1.4 Events

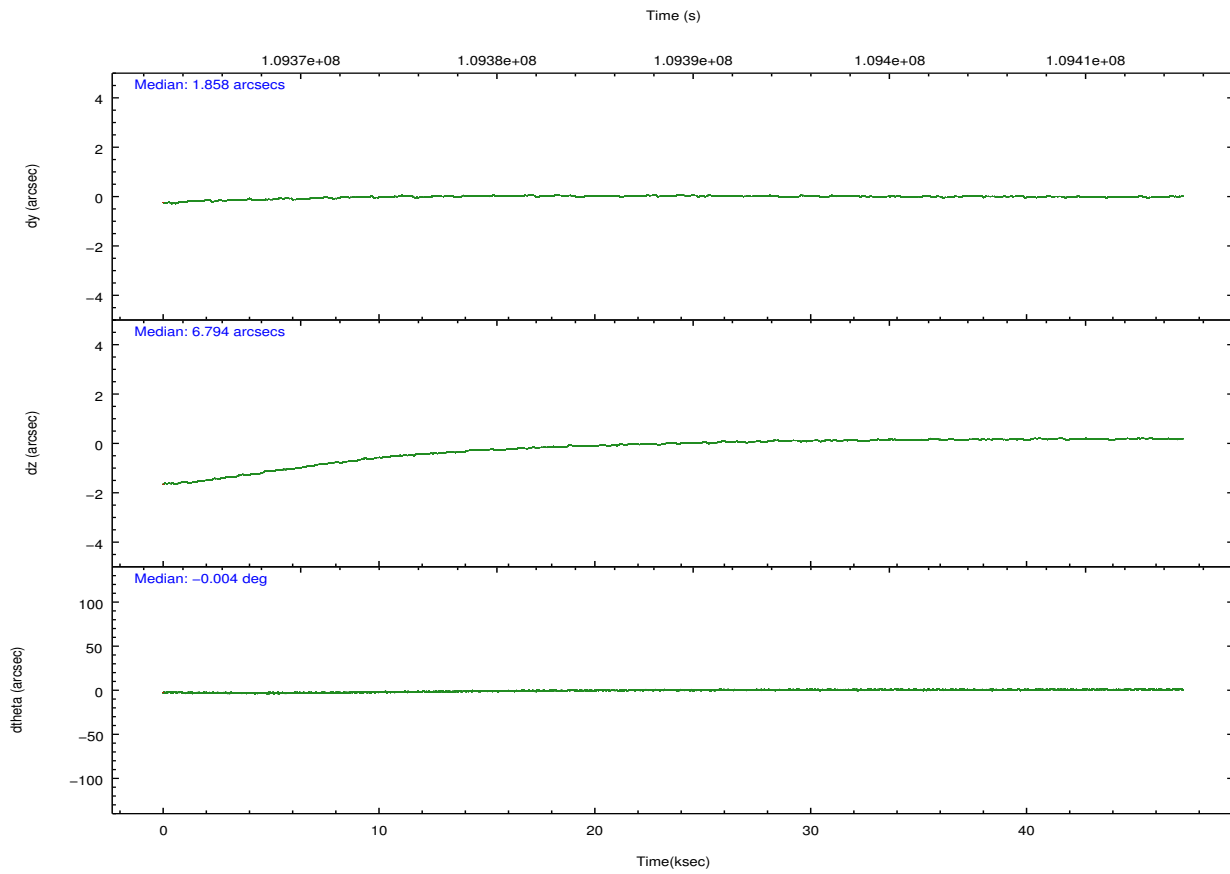
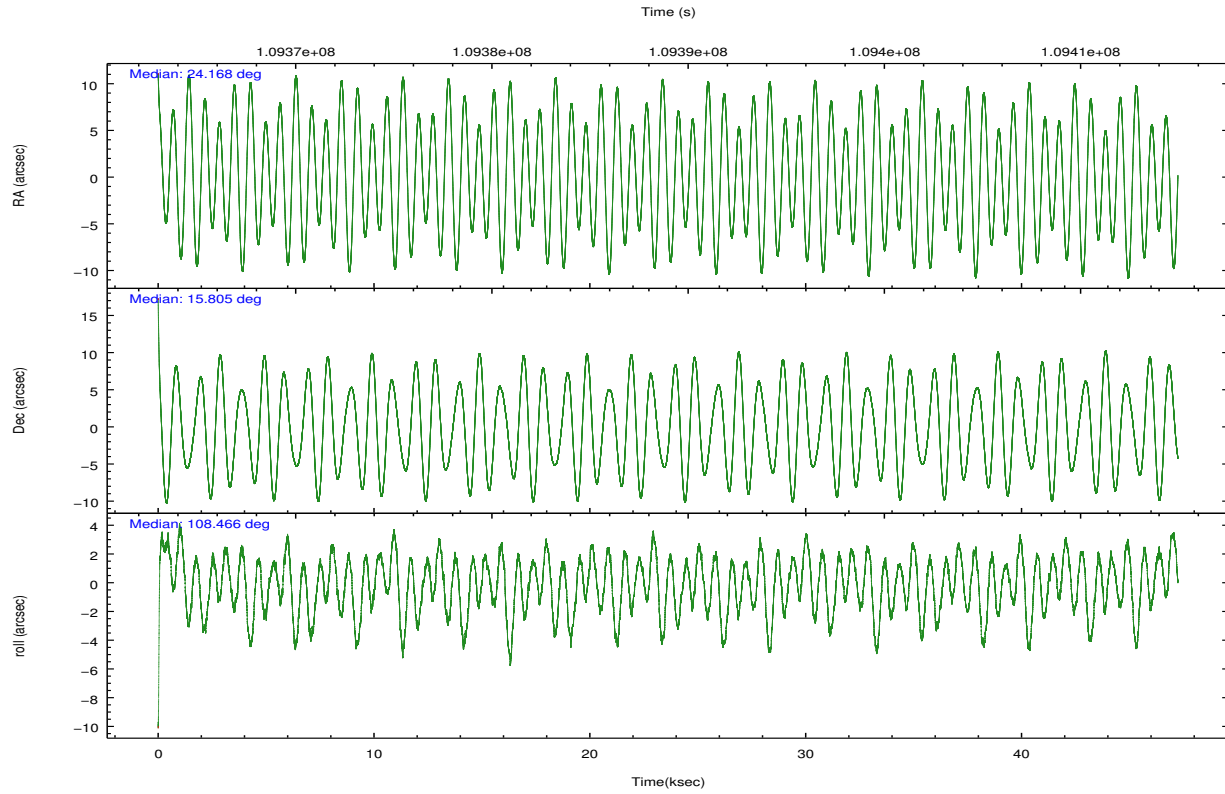
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	312535	302047	451774	309830	393945	379268	grade 0 events	14976	14847	43835	15023	16292	24428
rejected events	277628	267778	231979	274090	227006	303610		4%	4%	9%	4%	4%	6%
rejected %	88%	88%	51%	88%	57%	80%	grade 1 events	156	120	1244	167	365	232
								0%	0%	0%	0%	0%	0%
							grade 2 events	7429	6799	56292	6988	33041	16465
								2%	2%	12%	2%	8%	4%
							grade 3 events	3260	3265	8710	3475	15187	7977
								1%	1%	1%	1%	3%	2%
							grade 4 events	3235	3292	8620	3359	15072	7349
								1%	1%	1%	1%	3%	1%
							grade 5 events	10590	11599	32635	13096	37217	16109
								3%	3%	7%	4%	9%	4%
							grade 6 events	6012	6070	102359	6897	87361	19441
								1%	2%	22%	2%	22%	5%
							grade 7 events	266877	256055	198079	260825	189410	287267
								85%	84%	43%	84%	48%	75%

## 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	24.189534	24.16810774726175	Subarray requested	NONE	NONE
[deg] Pointing Dec	15.787031	15.80491012912495	Alternating exposures requested	N	N
[deg] Pointing Roll	108.309185	108.4716464511398	[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)	109365596.184000	109364589.76889			
Observation start date	2001-06-19T19:18:52	2001-06-19T19:03:09			
[s] Observation end time (MET)	109412596.184000	109413069.19578			
Observation end date	2001-06-20T08:22:12	2001-06-20T08:31:09			
Read mode	TIMED	TIMED			

## 2.3 Aspect



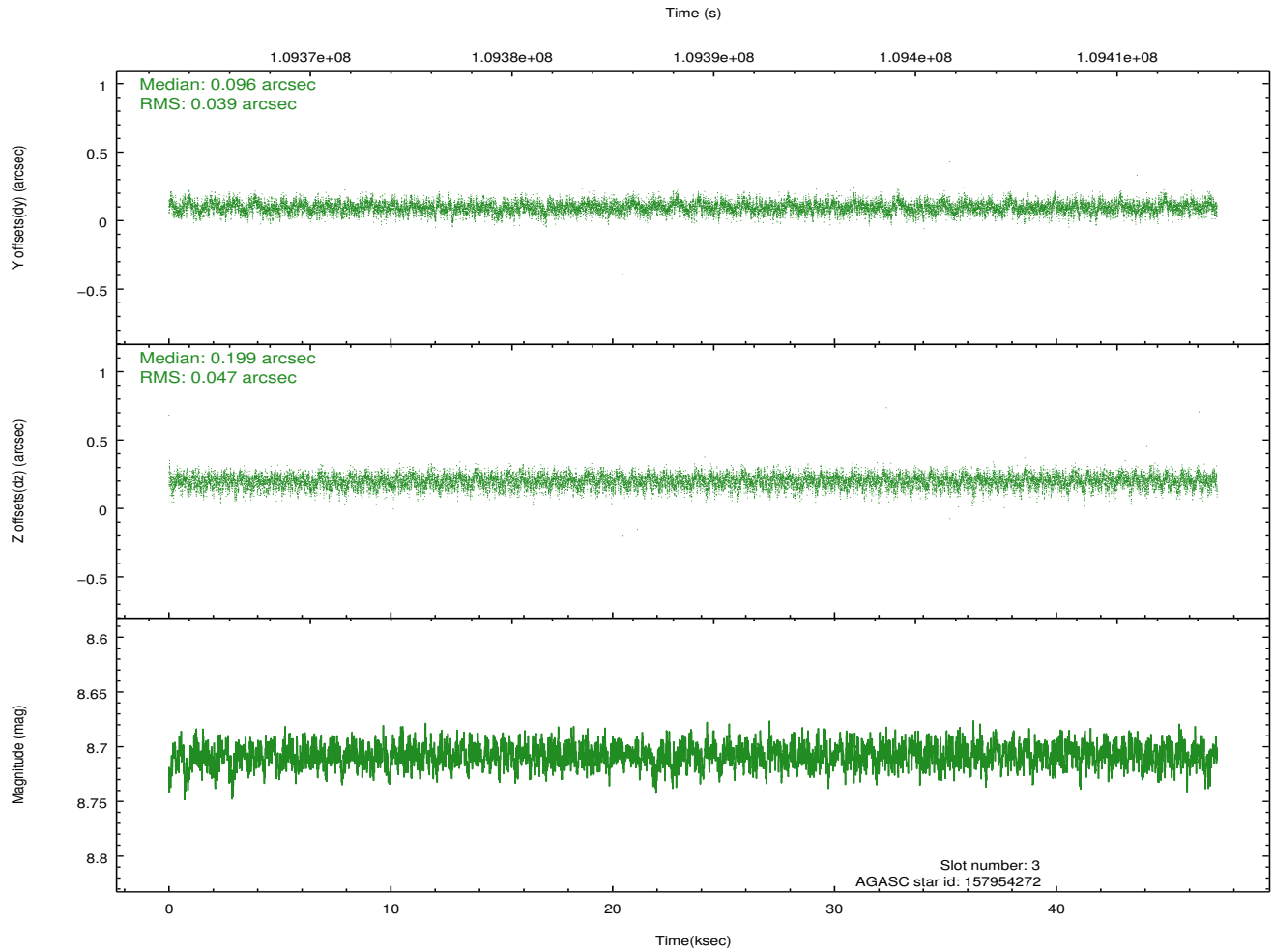
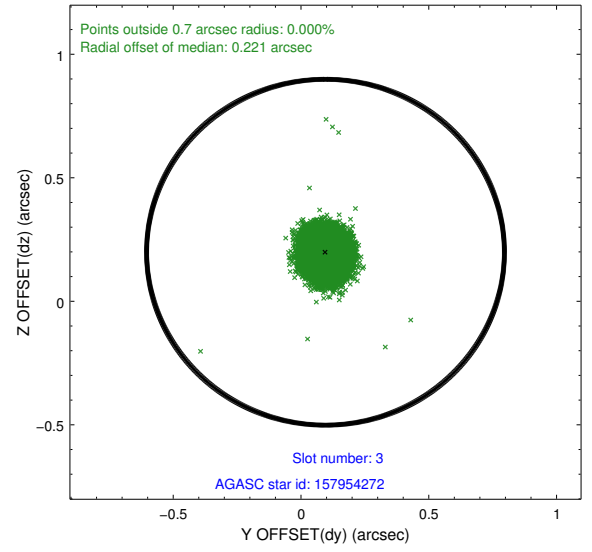
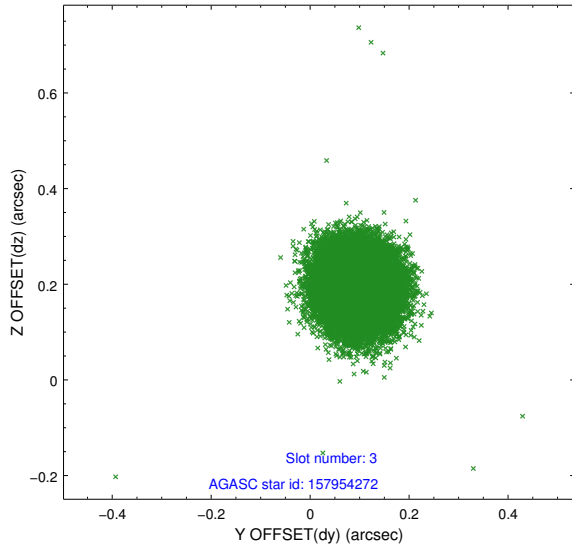


### Slot Statistics

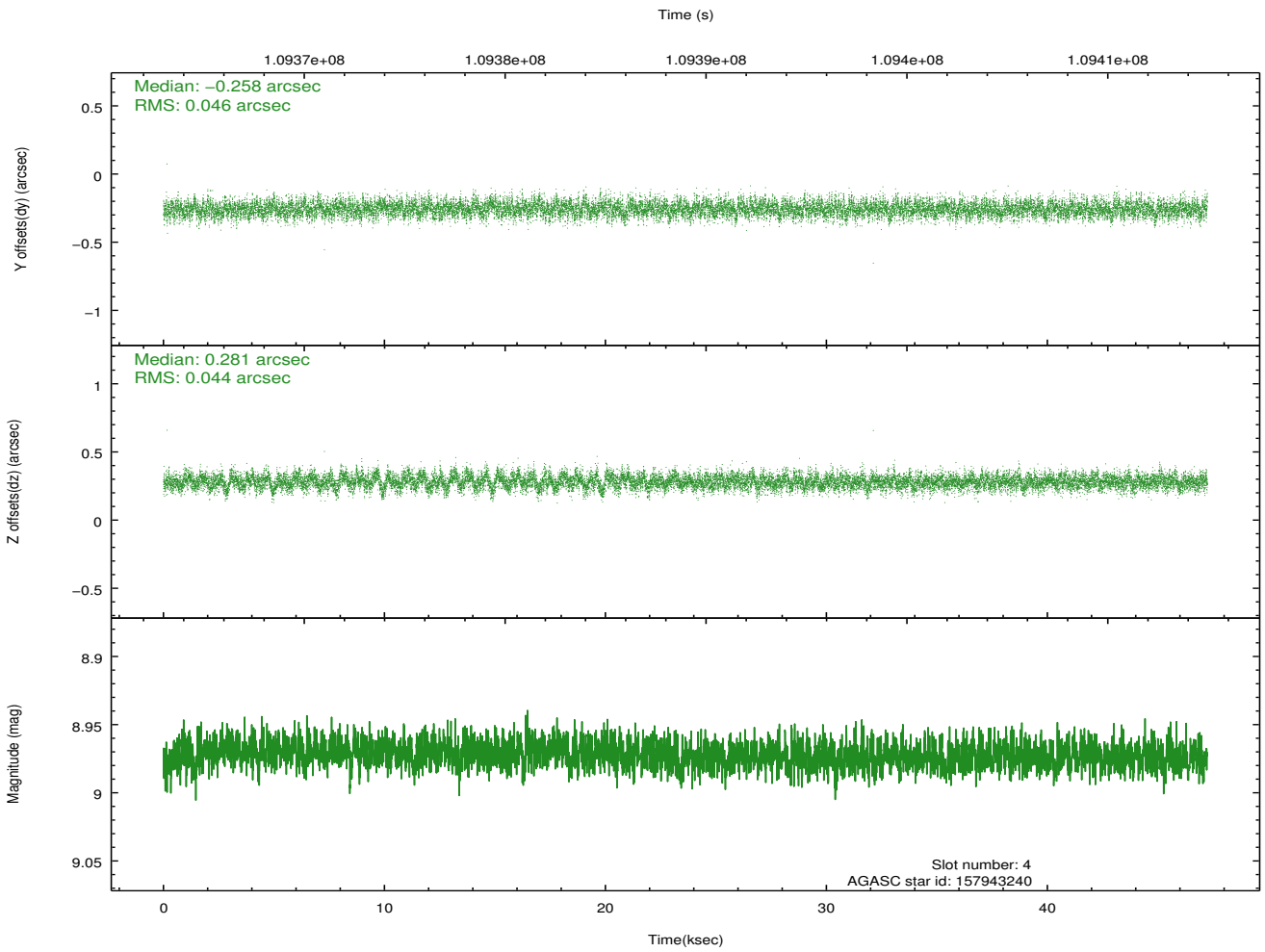
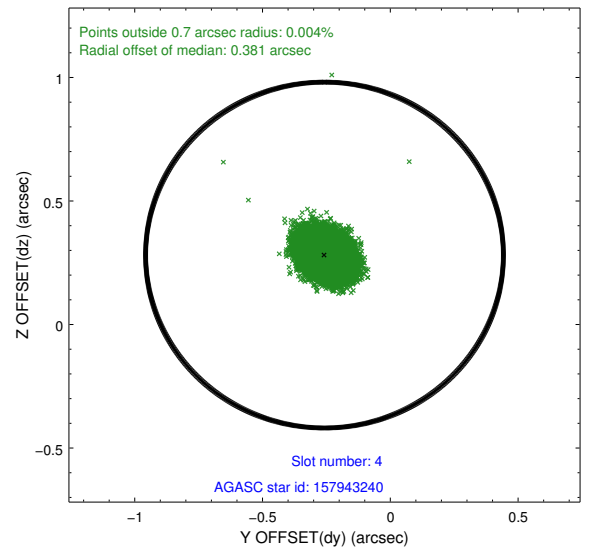
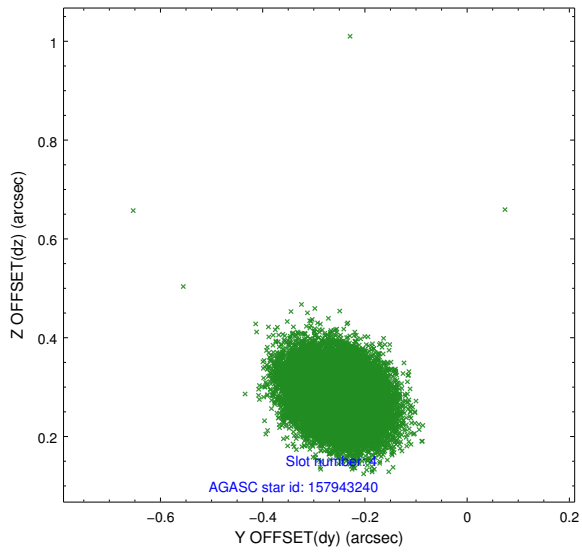
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	11522	-0.024	0.008	0.010	0.017	0.000000	0.000000	-754.46	-1727.66
1	FID	ACIS-S-4	7.20	11518	-0.059	0.010	0.011	0.020	0.000000	0.000000	2158.77	180.87
2	FID	ACIS-S-5	7.24	11521	0.053	-0.009	0.009	0.013	0.000000	0.000000	-1807.25	174.47
3	GUIDE	157954272	8.71	23043	0.096	0.199	0.065	0.104	24.932144	15.423798	-2047.20	-2037.32
4	GUIDE	157943240	8.97	23034	-0.258	0.281	0.068	0.111	24.500363	16.361777	1627.02	-1669.28
5	GUIDE	157036752	9.08	23037	-0.098	-0.126	0.090	0.152	23.400830	16.130370	2034.35	2199.67
6	GUIDE	157029352	9.06	23039	0.089	-0.274	0.087	0.147	23.764744	15.271289	-1298.54	1983.05
7	GUIDE	157953216	9.37	23030	0.172	-0.076	0.079	0.131	24.189817	15.248642	-1840.97	607.79

## 2.4 Star Slots

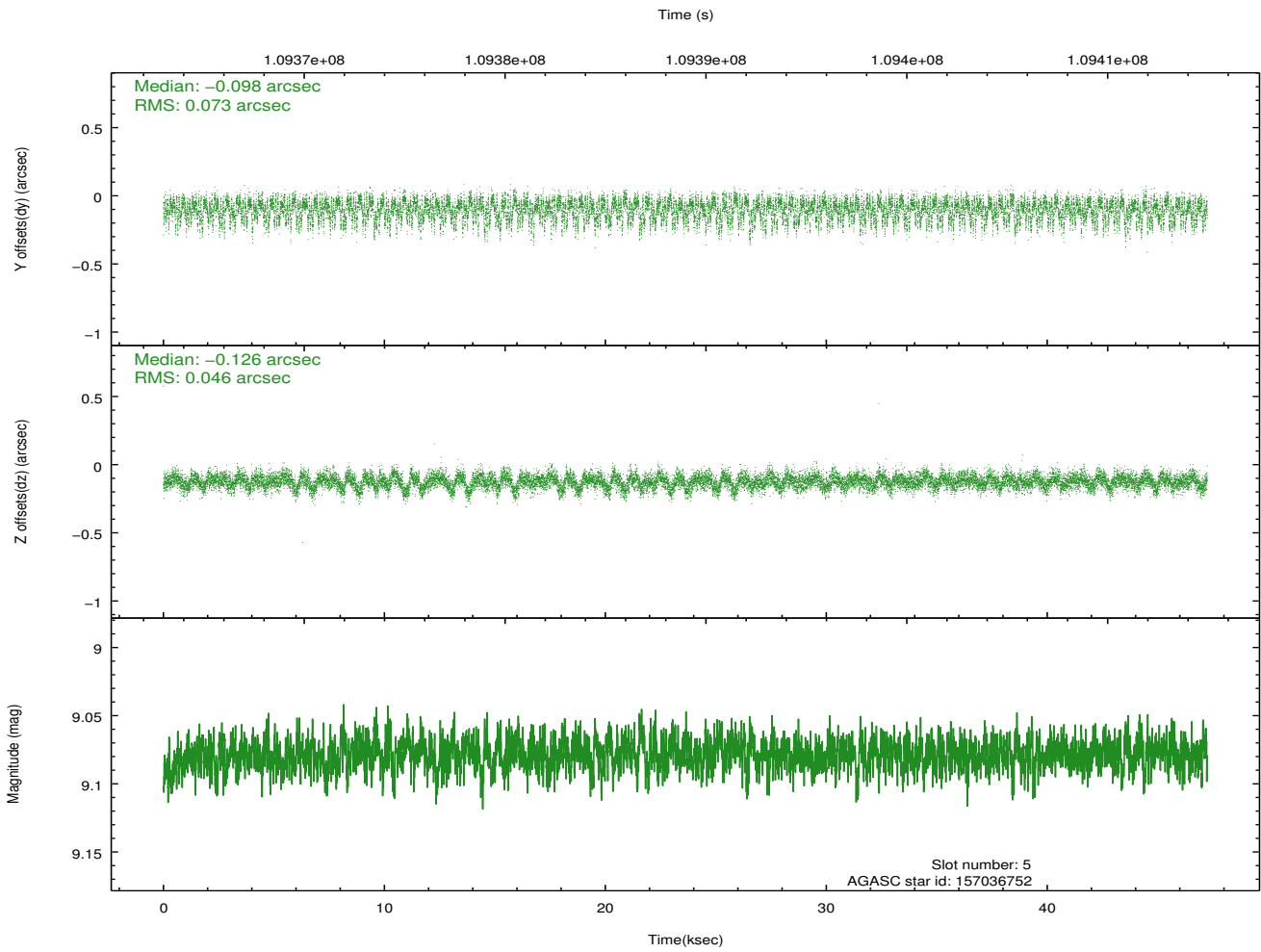
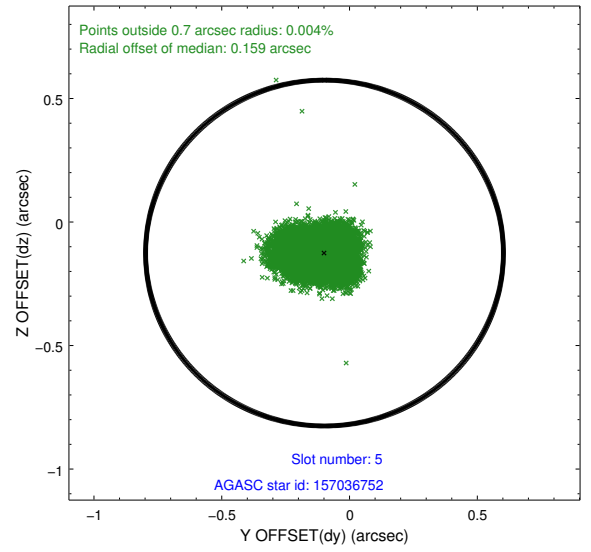
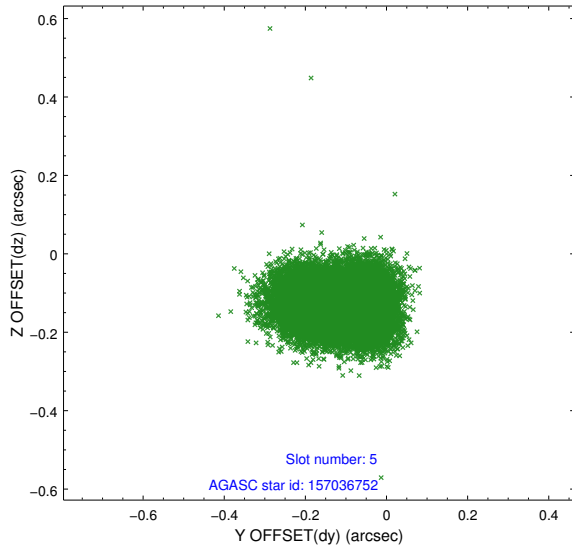
### 2.4.1 Slot 3



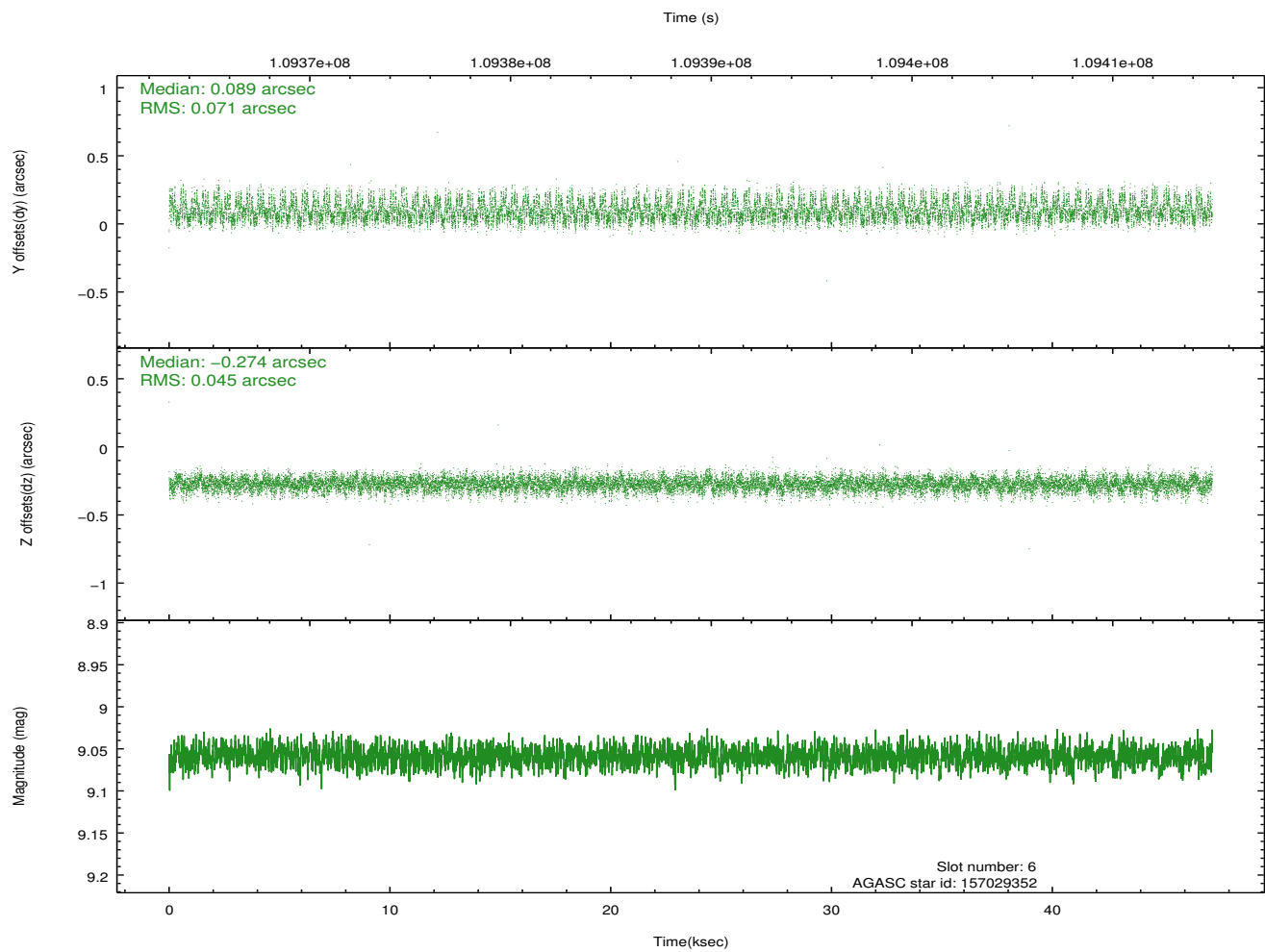
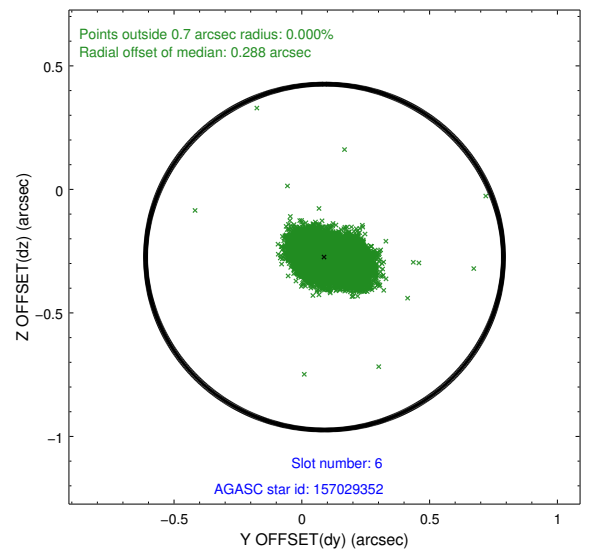
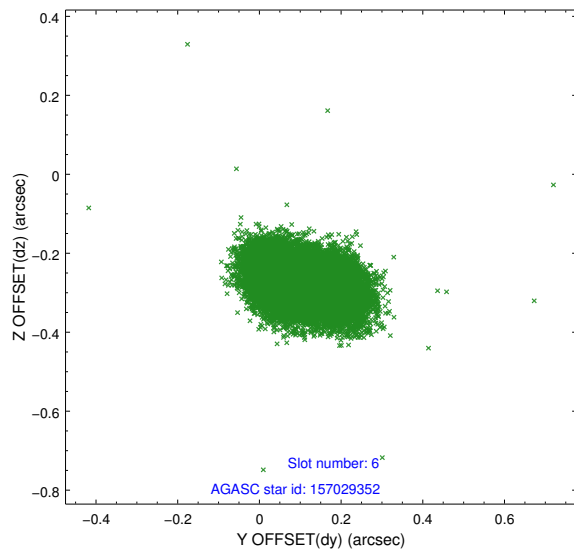
### 2.4.2 Slot 4



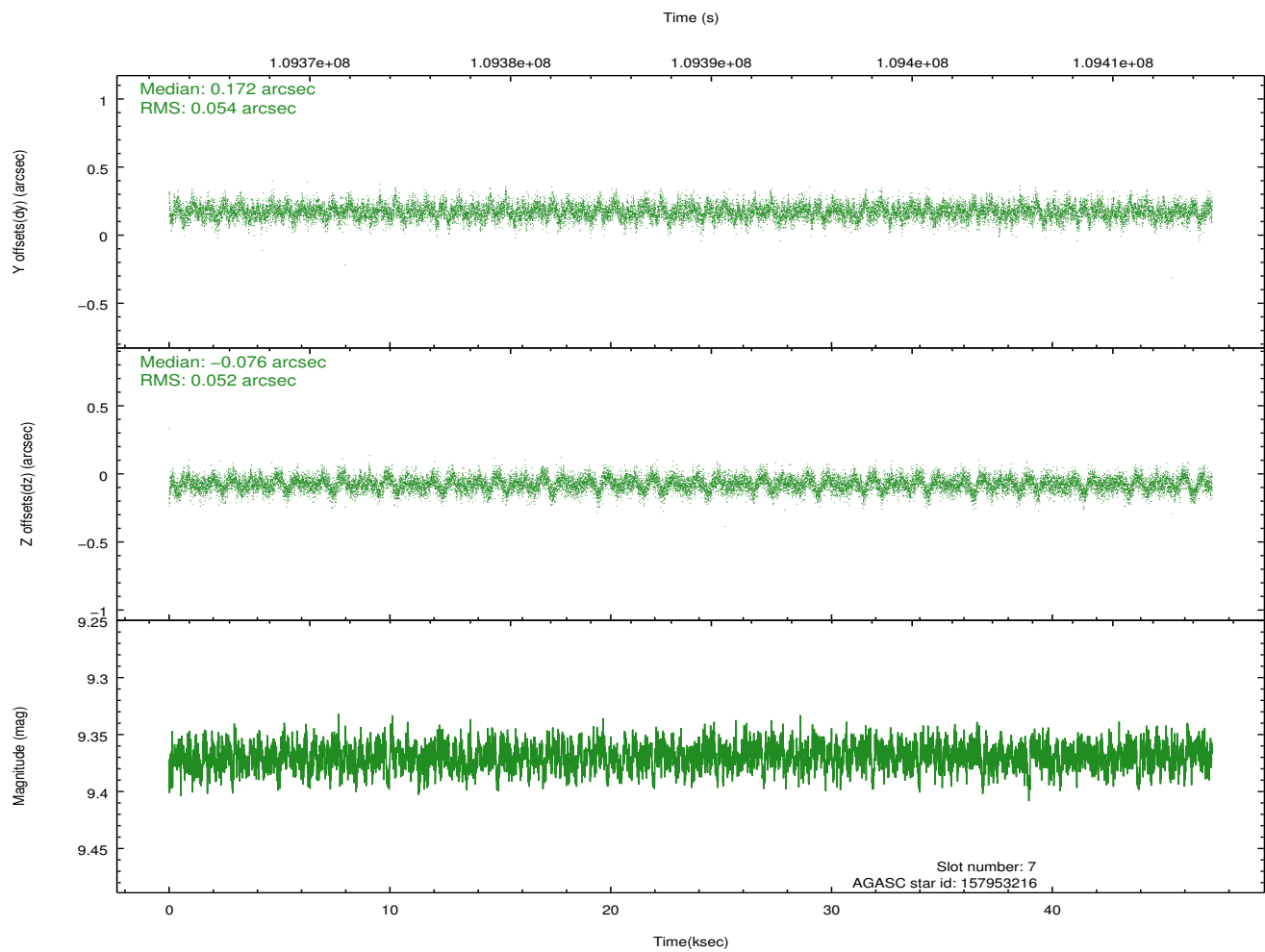
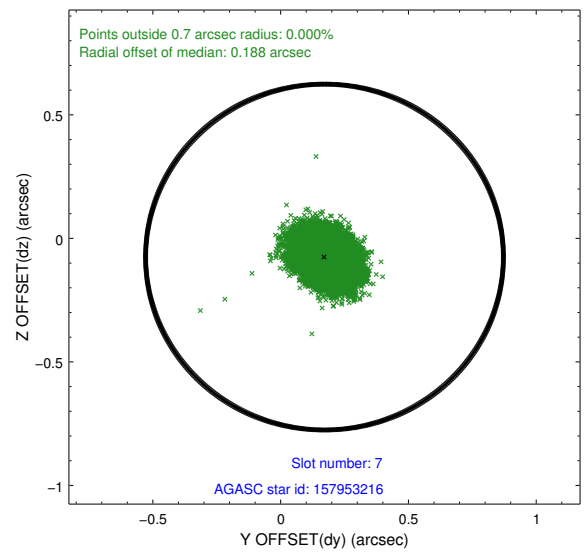
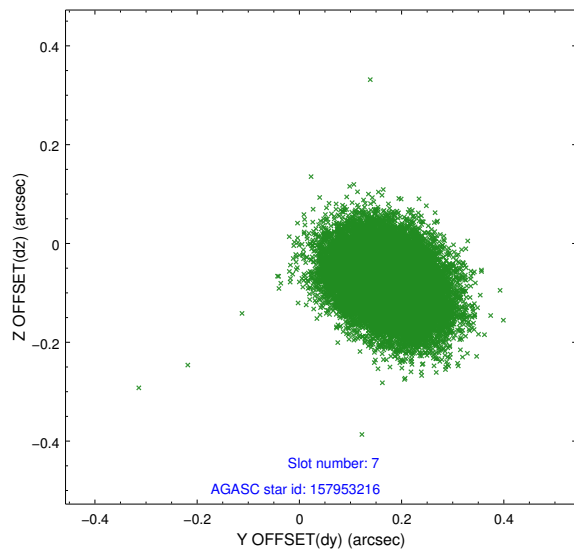
### 2.4.3 Slot 5



## 2.4.4 Slot 6

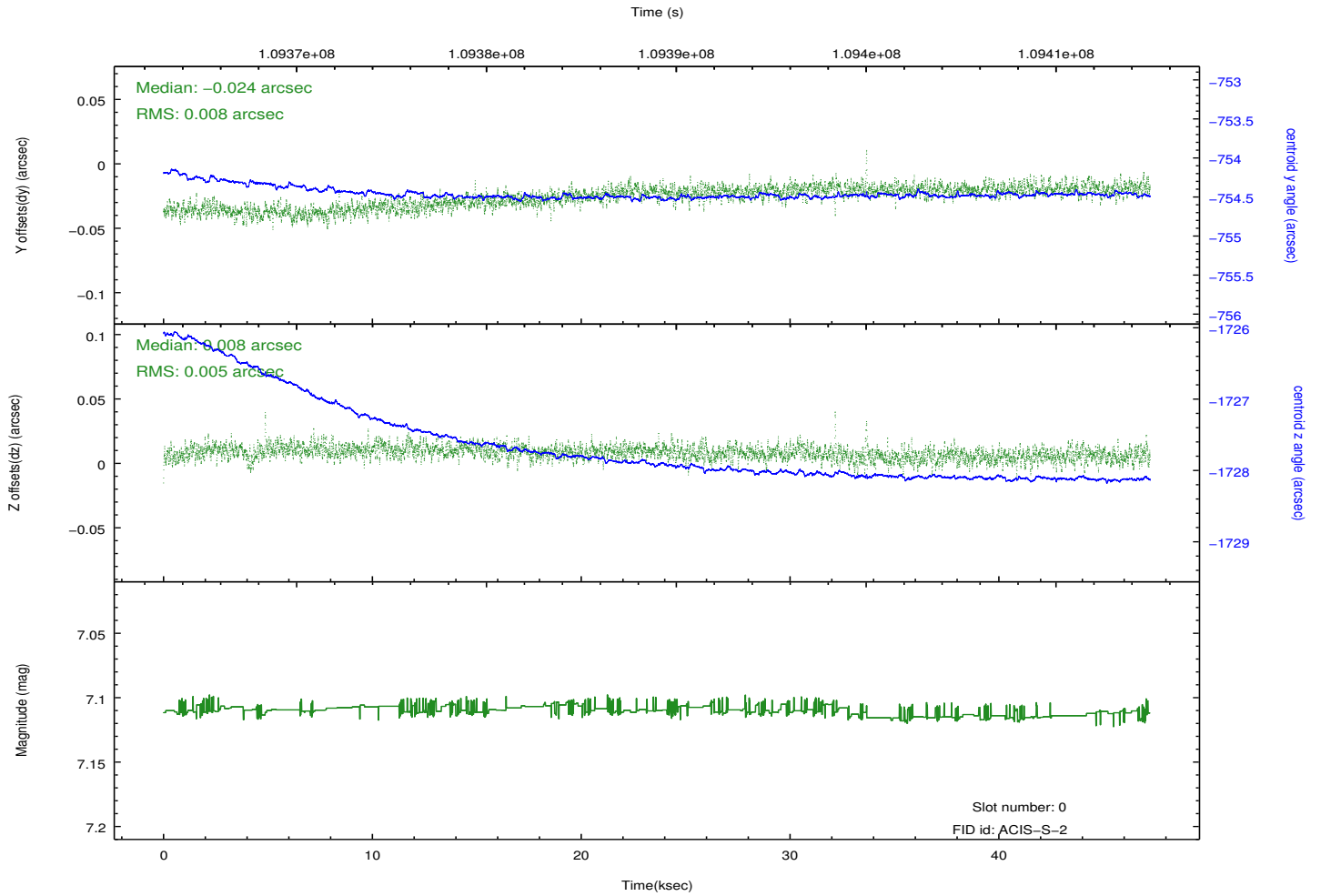
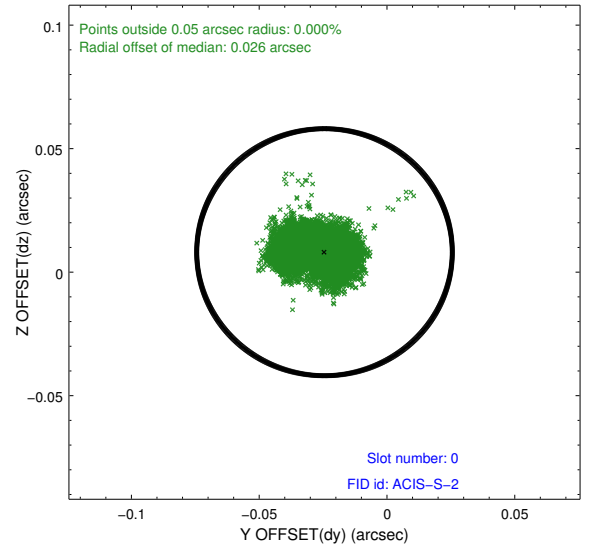
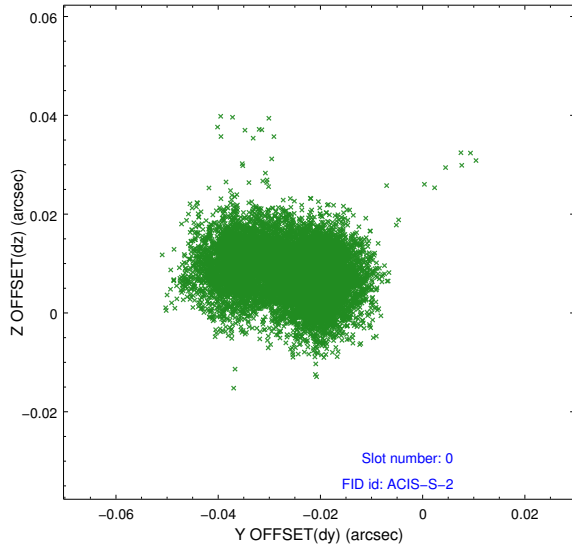


## 2.4.5 Slot 7

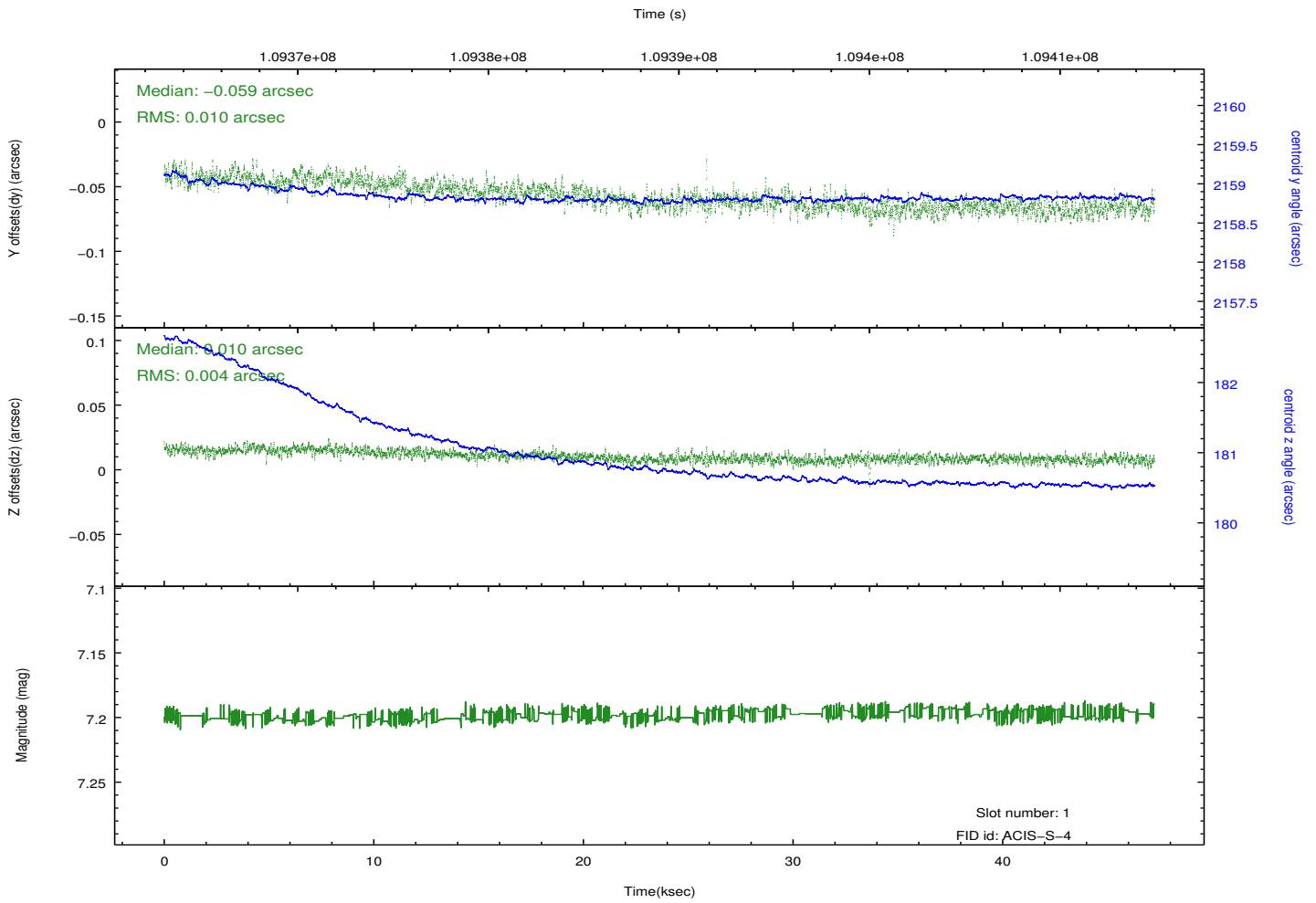
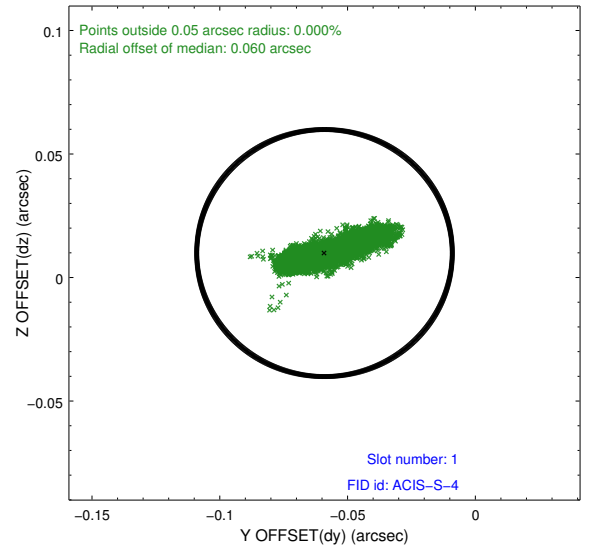
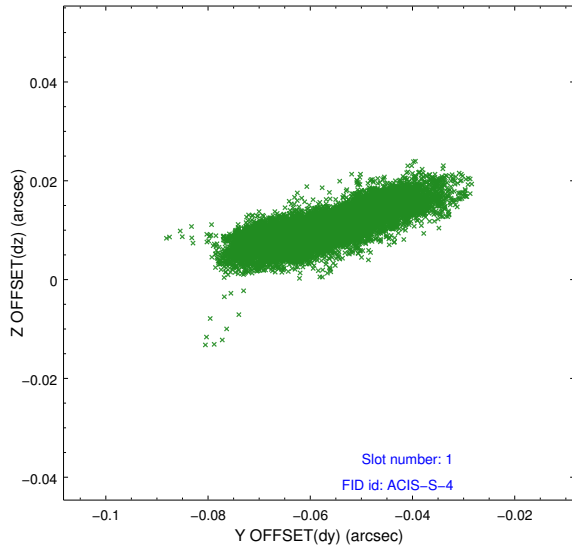


## 2.5 FID Slots

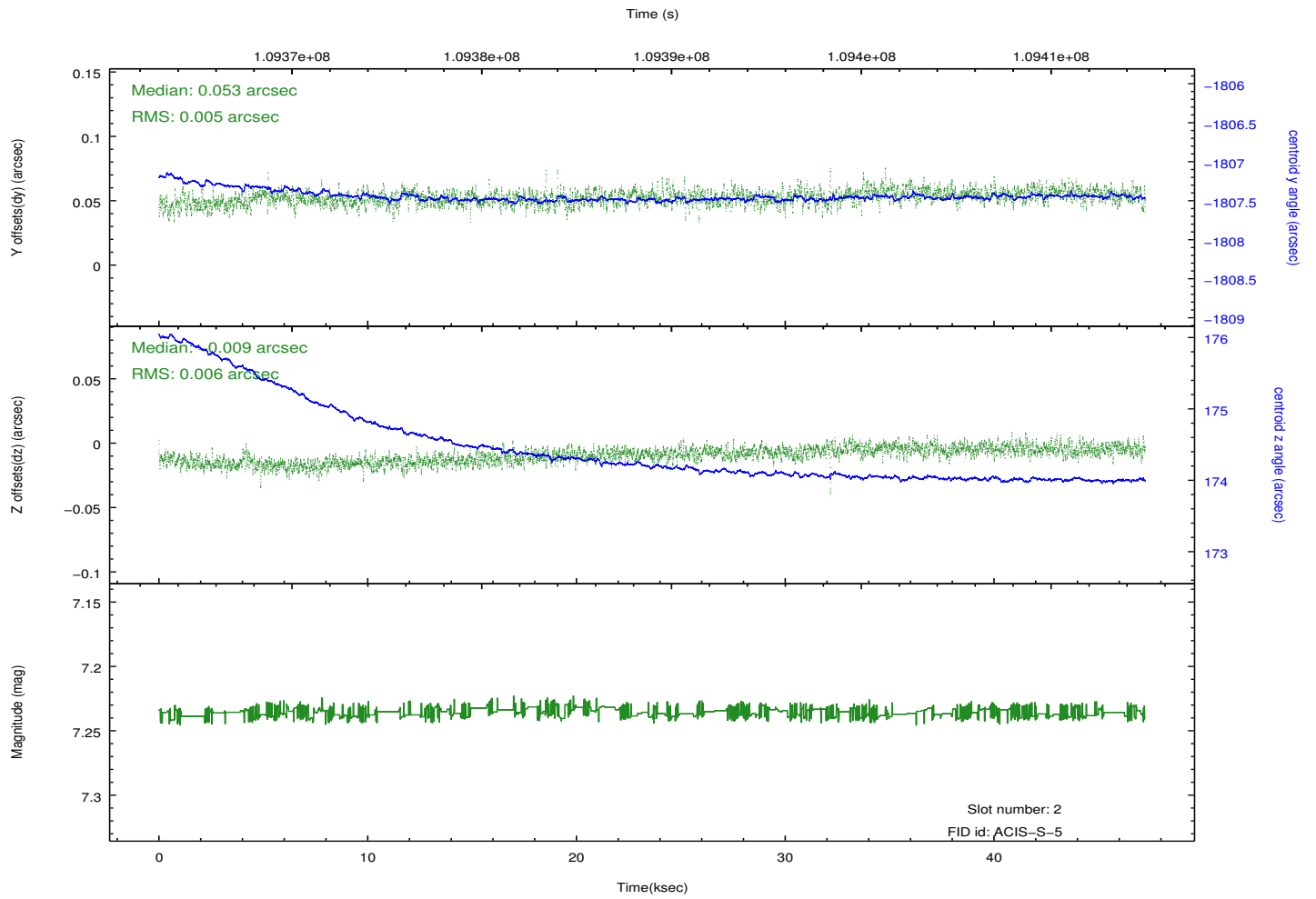
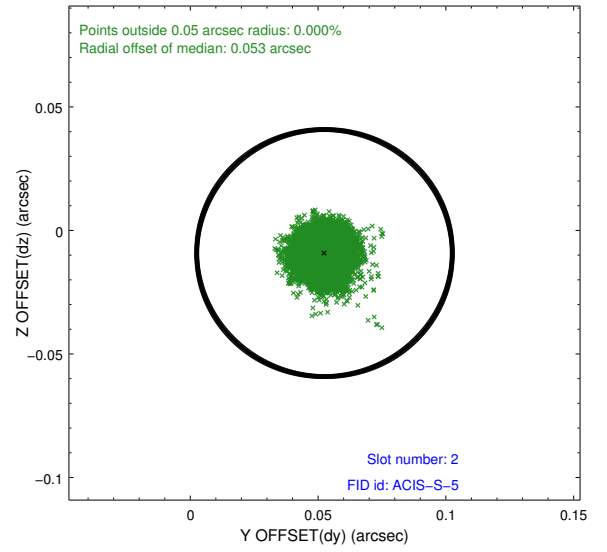
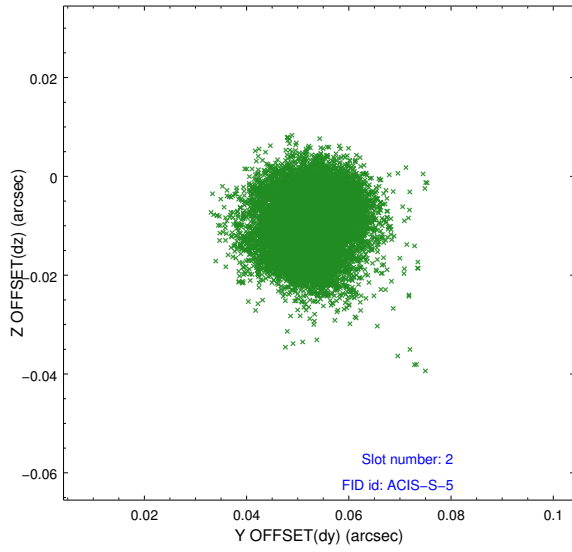
### 2.5.1 Slot 0



## 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)	2012.09.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47

## A.2 Comments

Charge time for this observation remains at previous value of 47 ksec.