

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11577 - L2 Version 2  
Chandra X-Ray Center

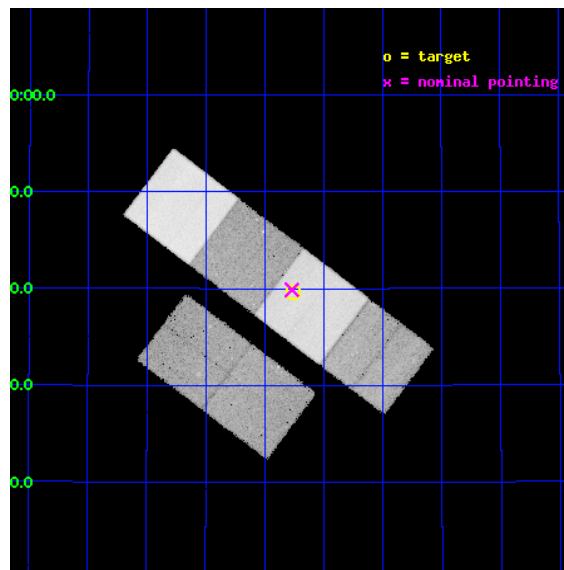
L2 Processing Date : Jun 15 2012

## 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

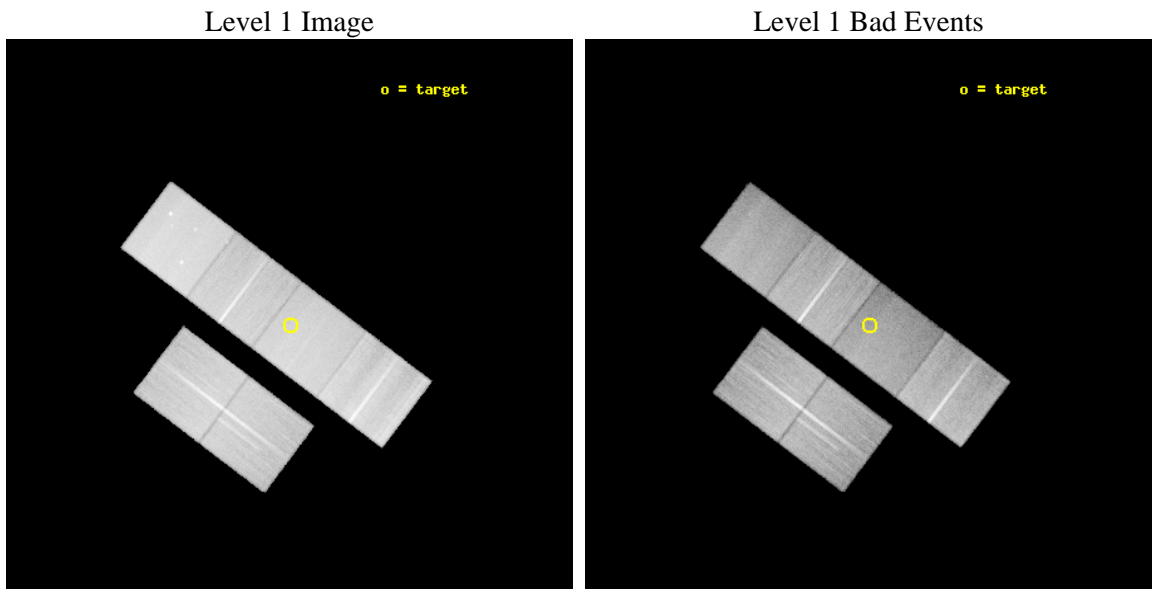
seq_num	702163	Sequence number
obs_id	11577	Observation id
title	The environmental and epoch dependence of radio-loud AGN feedback	&#160
observer	Dr Judith Croston	Principal investigator
object	6C 1132+3439	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	173.190417	Observer's specified target RA [deg]
dec_targ	34.660056	Observer's specified target Dec [deg]
ra_nom	173.19255660268	Nominal RA [deg]
dec_nom	34.664578092534	Nominal Dec [deg]
roll_nom	37.119448790729	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40121.599850595	Sum of GTIs [s]
livetime	39613.55599496	Livetime [s]
ontime2	40115.117929816	Sum of GTIs [s]
ontime3	40115.11789	Sum of GTIs [s]
ontime5	40121.599850595	Sum of GTIs [s]
ontime6	40112.38071394	Sum of GTIs [s]
ontime7	40121.599850595	Sum of GTIs [s]
ontime8	40121.599850595	Sum of GTIs [s]
l2events	535531	Number of level 2 events



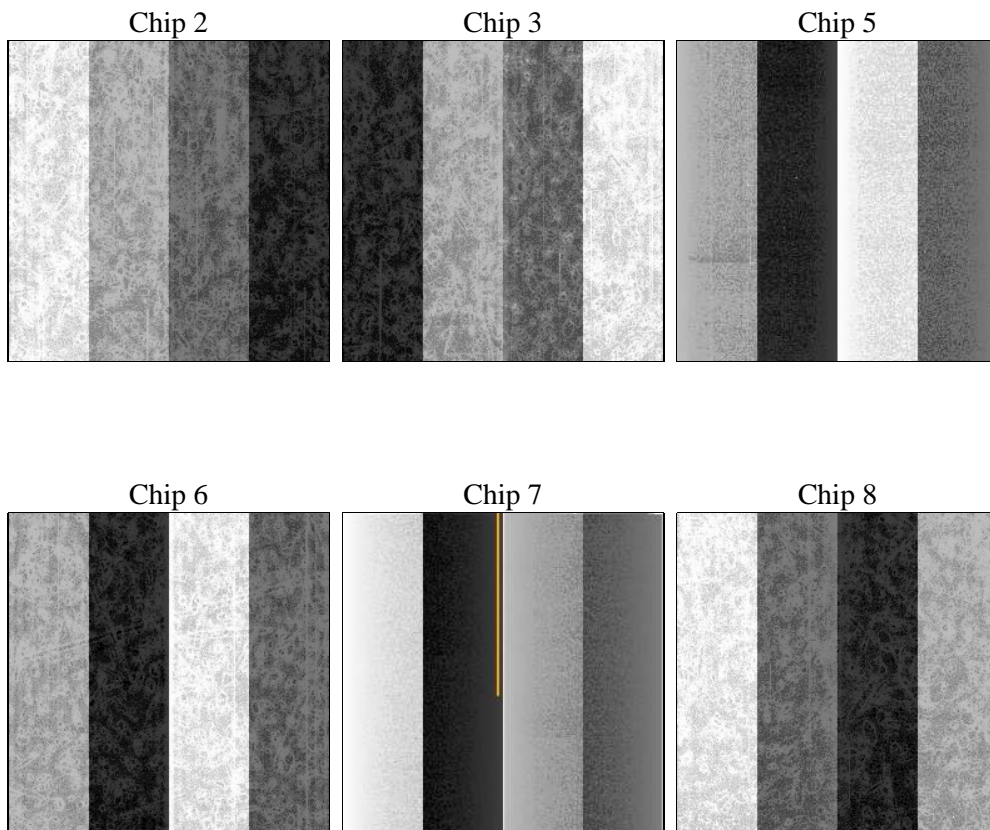
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	40121.599850595	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime2	40115.117929816	Sum of GTIs [s]
date	2012-06-15T15:34:38	Date and time of file creation	ontime3	40115.11789	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	40121.599850595	Sum of GTIs [s]
			ontime6	40112.38071394	Sum of GTIs [s]
			ontime7	40121.599850595	Sum of GTIs [s]
			ontime8	40121.599850595	Sum of GTIs [s]
			l1events	2416637	Number of level 1 events

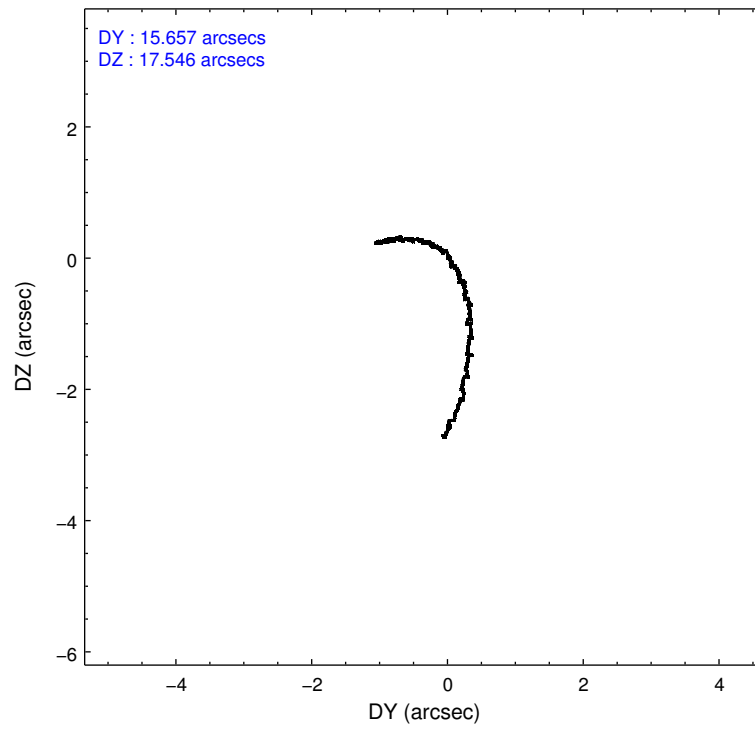
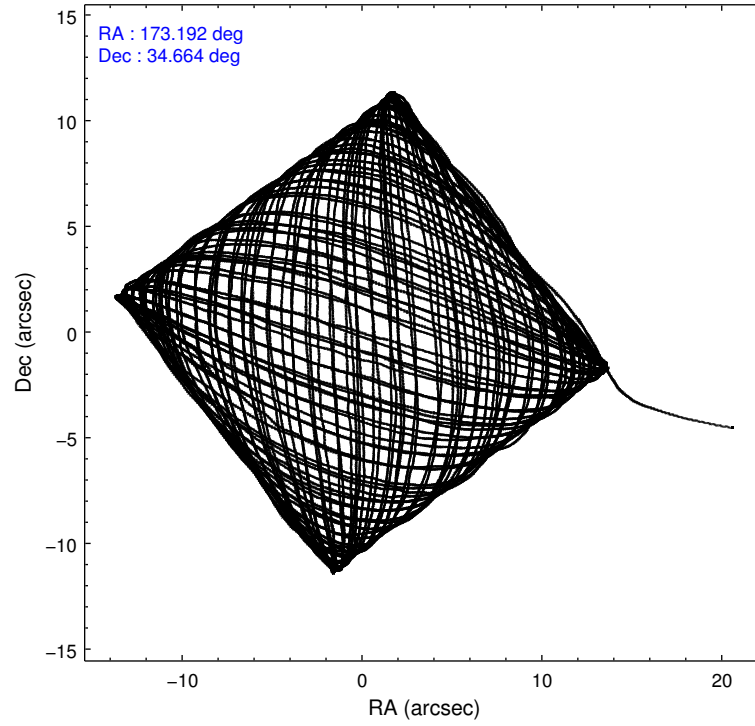
### 2.1.4 Events

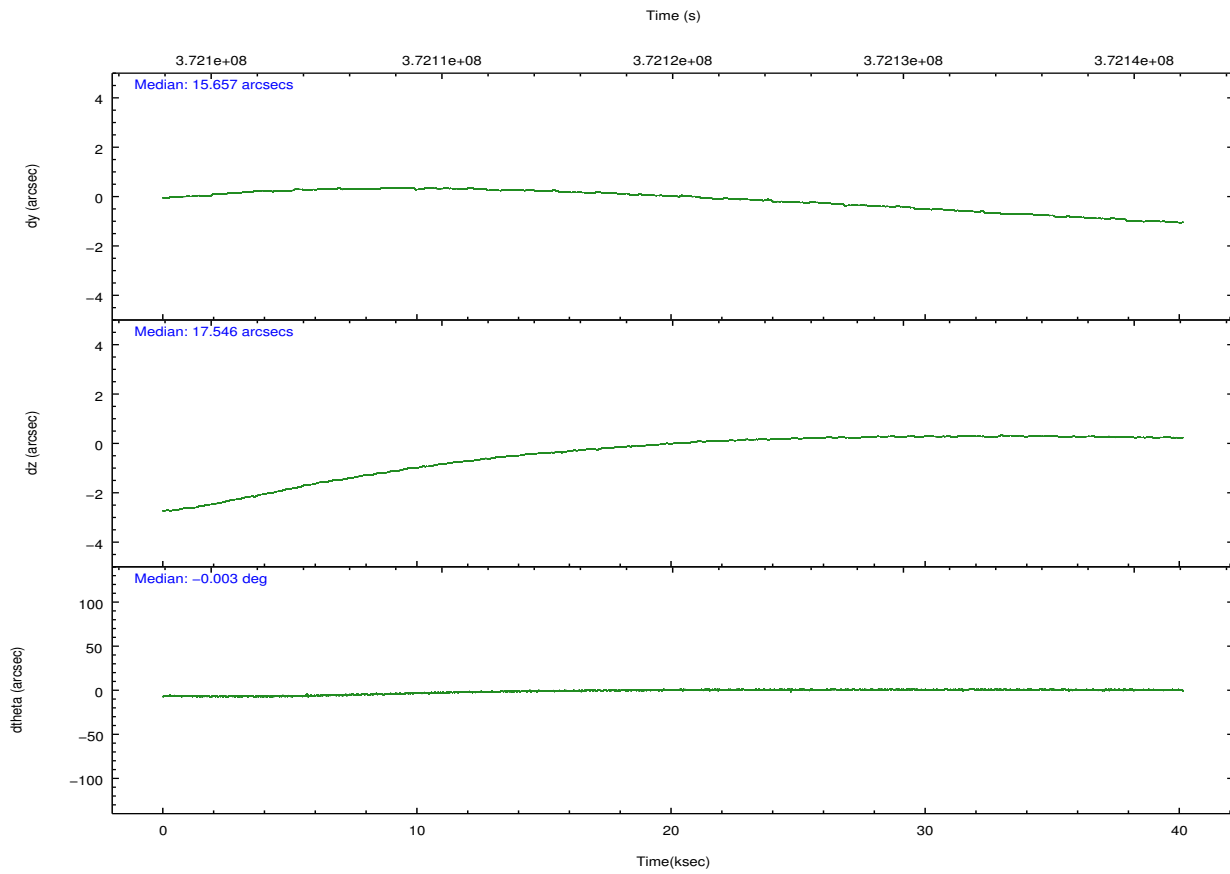
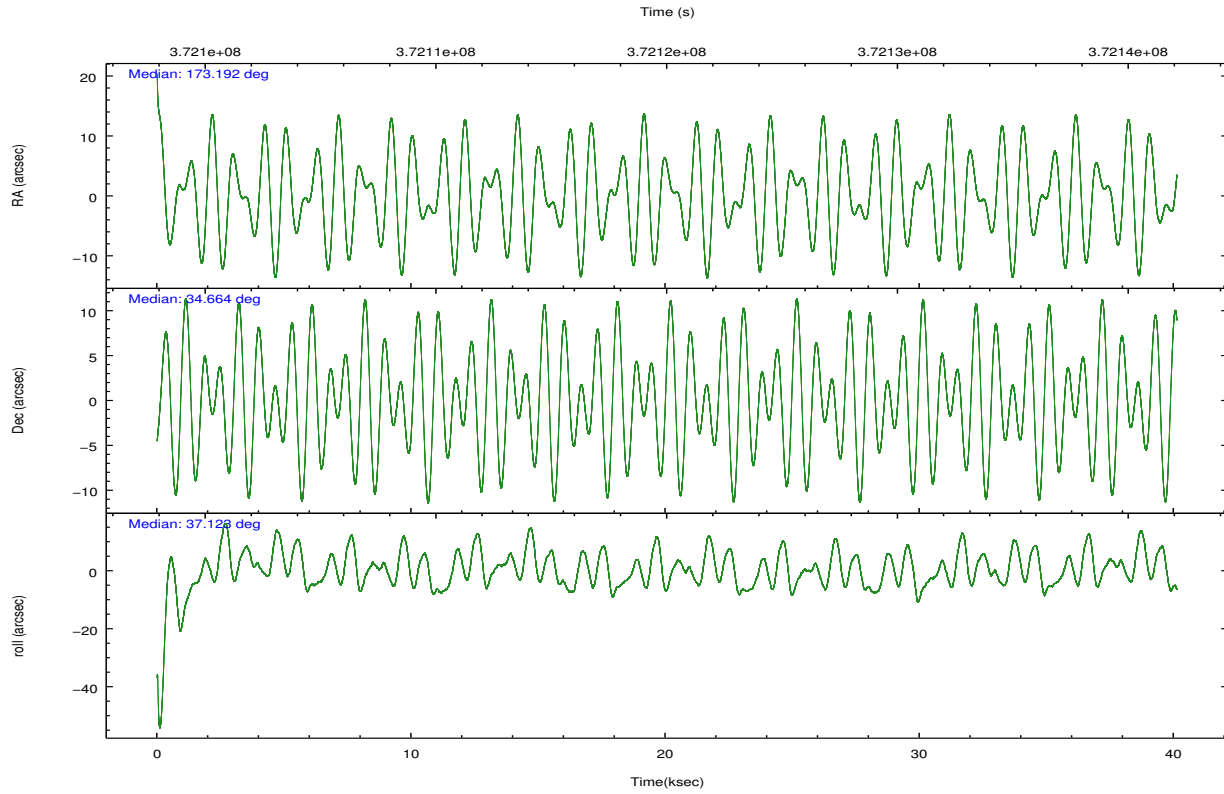
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	375415	338838	494820	359089	399775	448700	grade 0 events	12358	11829	19558	12881	16826	34951
rejected events	340735	305847	252491	322170	218490	332992		3%	3%	3%	3%	4%	7%
rejected %	90%	90%	51%	89%	54%	74%	grade 1 events	199	208	1197	180	558	390
								0%	0%	0%	0%	0%	0%
							grade 2 events	8656	7349	74173	8255	37091	26617
								2%	2%	14%	2%	9%	5%
							grade 3 events	3618	3680	10013	3811	16059	12250
								0%	1%	2%	1%	4%	2%
							grade 4 events	3679	3604	9614	4043	16038	11540
								0%	1%	1%	1%	4%	2%
							grade 5 events	12046	14362	39005	14416	41644	21136
								3%	4%	7%	4%	10%	4%
							grade 6 events	6502	6652	130028	8093	95982	30823
								1%	1%	26%	2%	24%	6%
							grade 7 events	328357	291154	211232	307410	175577	310993
								87%	85%	42%	85%	43%	69%

## 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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	173.180051	173.1925566026755	CCD I2 on	O1	Y
[deg] Pointing Dec	34.639239	34.66457809253431	CCD I3 on	O2	Y
[deg] Pointing Roll	36.969921	37.11944879072902	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	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)	372100081.184000	372098949.80419	CCD S5 on	N	N
Observation start date	2009-10-16T17:06:55	2009-10-16T16:49:09	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	372140081.184000	372140769.2938	On-chip summing requested	N	N
Observation end date	2009-10-17T04:13:35	2009-10-17T04:26:09	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





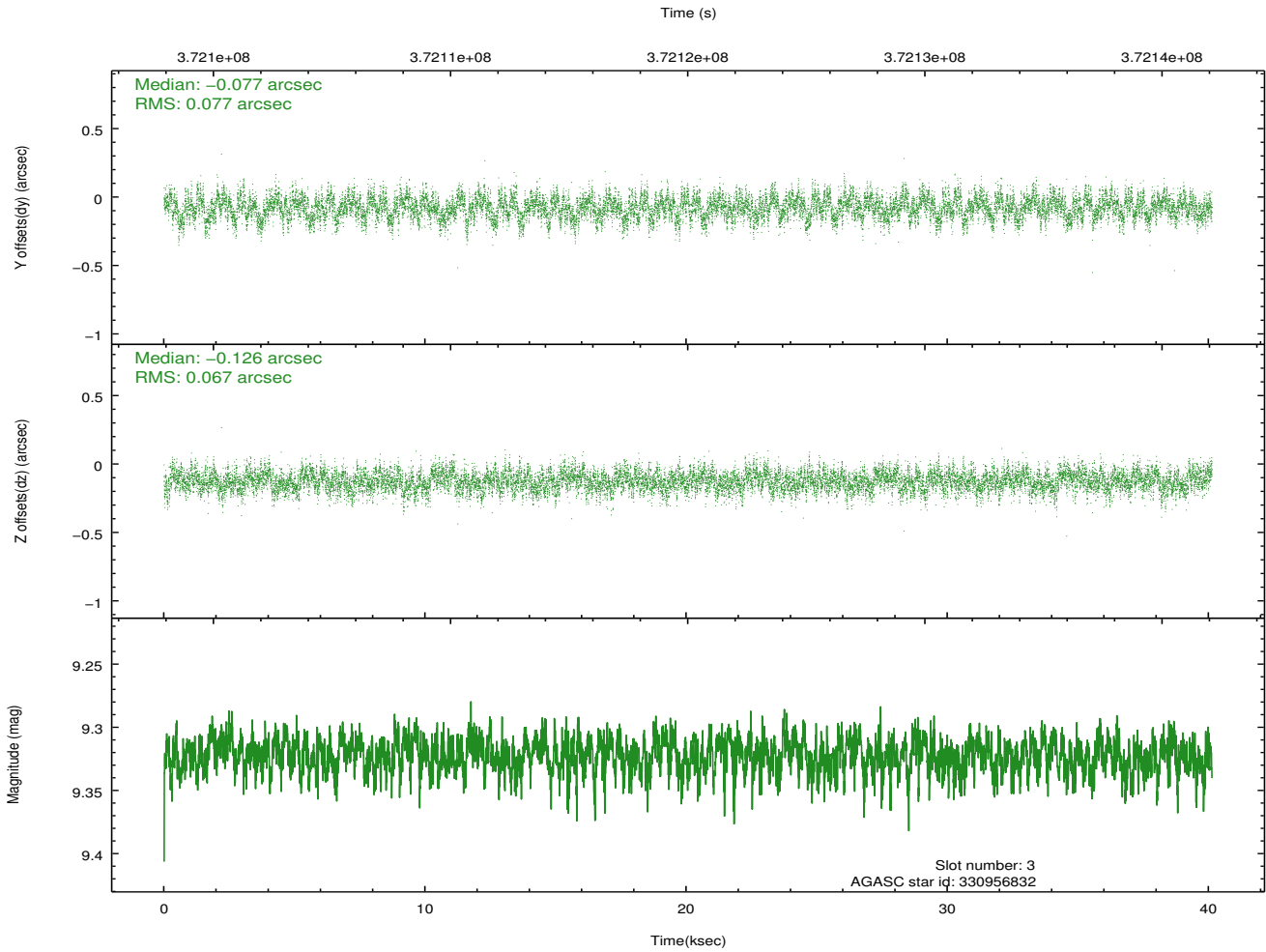
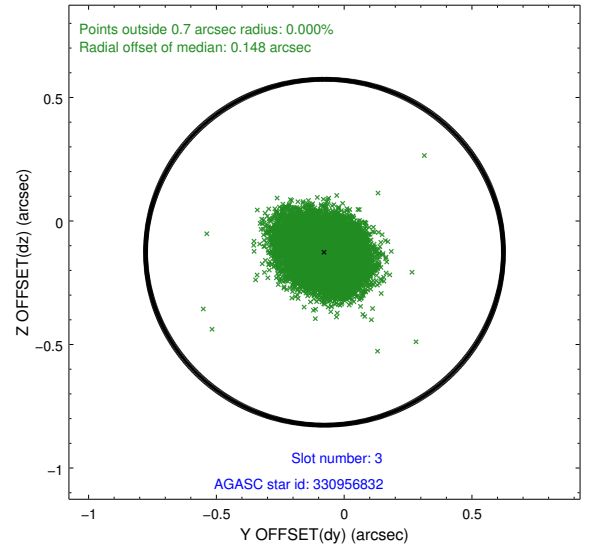
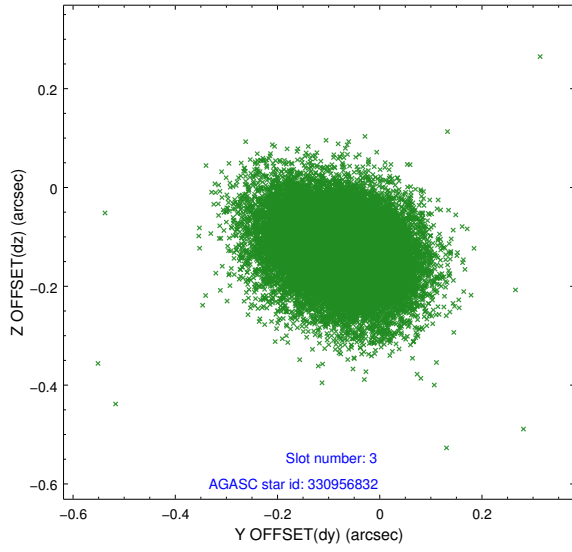
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	9788	-0.072	-0.037	0.022	0.046	0.000000	0.000000	-768.59	-1738.49
1	FID	ACIS-S-4	6.97	9788	0.175	0.044	0.015	0.024	0.000000	0.000000	2144.95	170.01
2	FID	ACIS-S-5	7.00	9787	-0.132	0.003	0.032	0.052	0.000000	0.000000	-1821.44	163.70
3	GUIDE	330956832	9.32	19562	-0.077	-0.126	0.109	0.176	173.840059	34.509683	1288.02	-1544.80
4	GUIDE	330956992	9.73	19538	-0.030	0.004	0.153	0.239	173.244961	34.282324	-617.87	-1142.44
5	GUIDE	330959264	9.82	19524	-0.205	0.171	0.146	0.245	173.945843	34.670492	1884.61	-1266.58
6	GUIDE	330959648	6.94	19575	-0.063	0.142	0.068	0.108	173.258632	34.051452	-1084.94	-1831.18
7	GUIDE	330960992	10.15	19531	0.393	-0.191	0.205	0.324	173.156079	34.283143	-827.06	-981.33

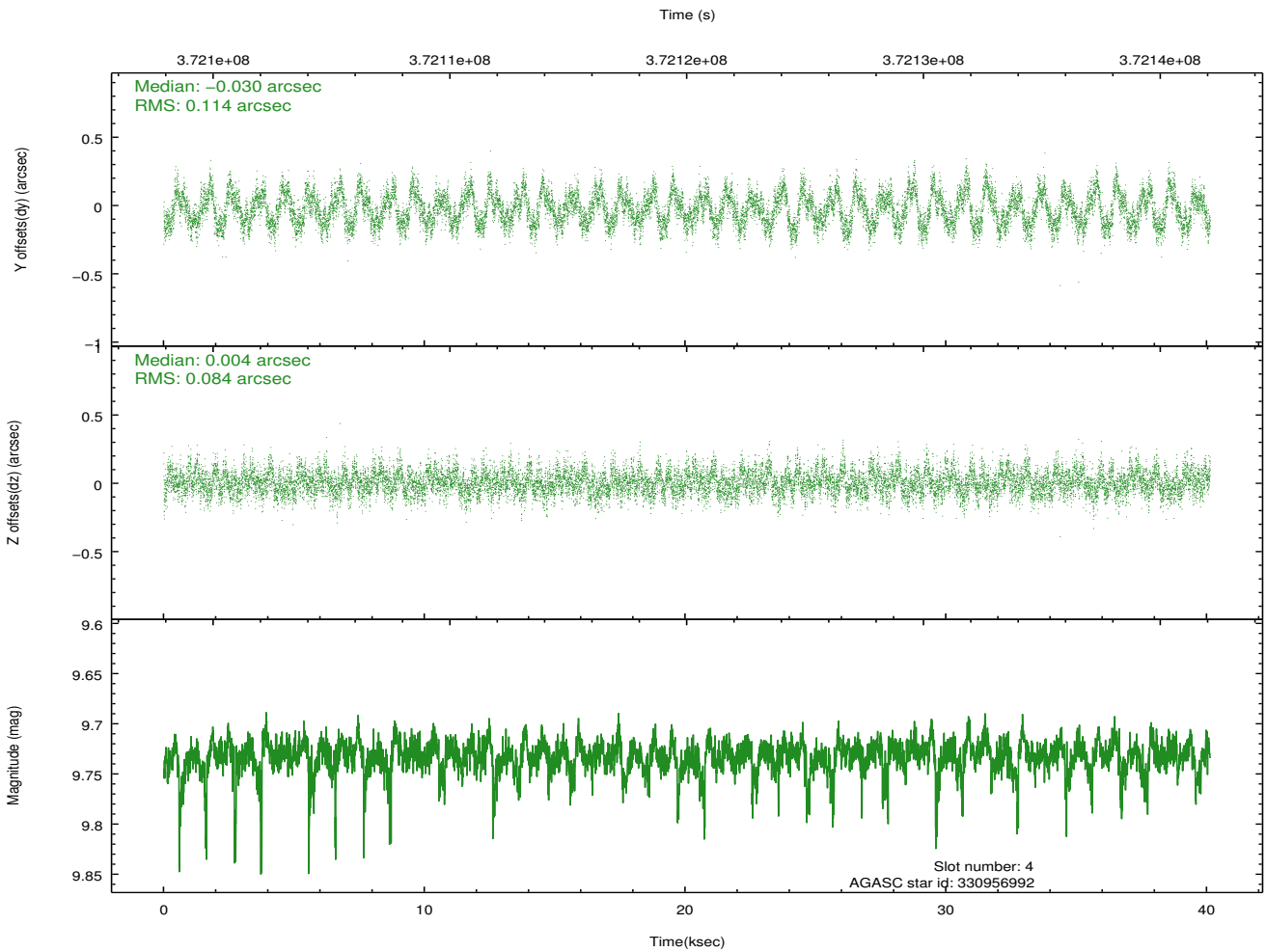
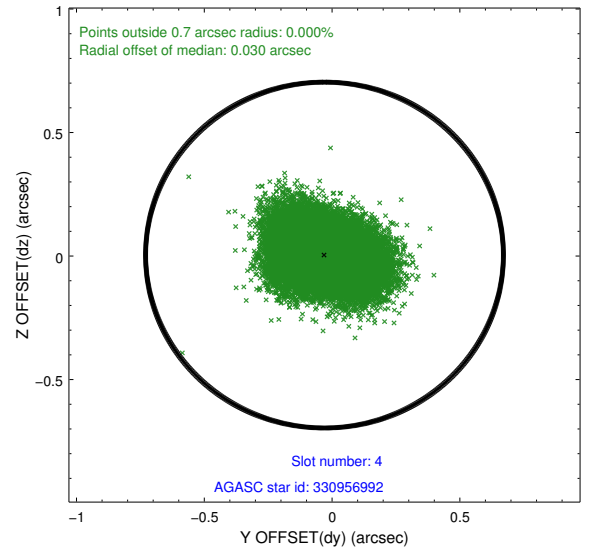
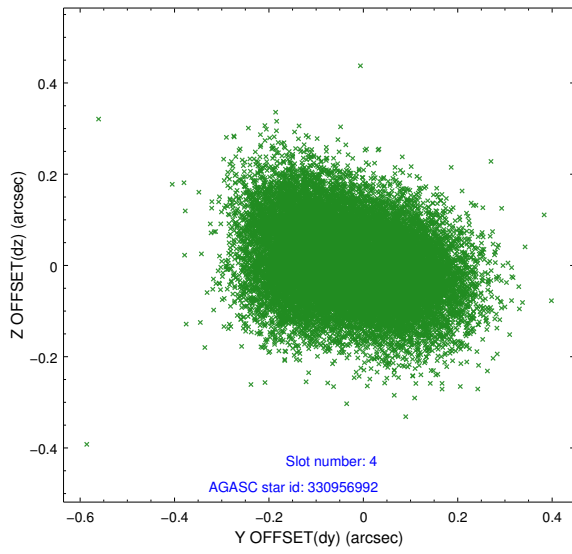
∞

## 2.4 Star Slots

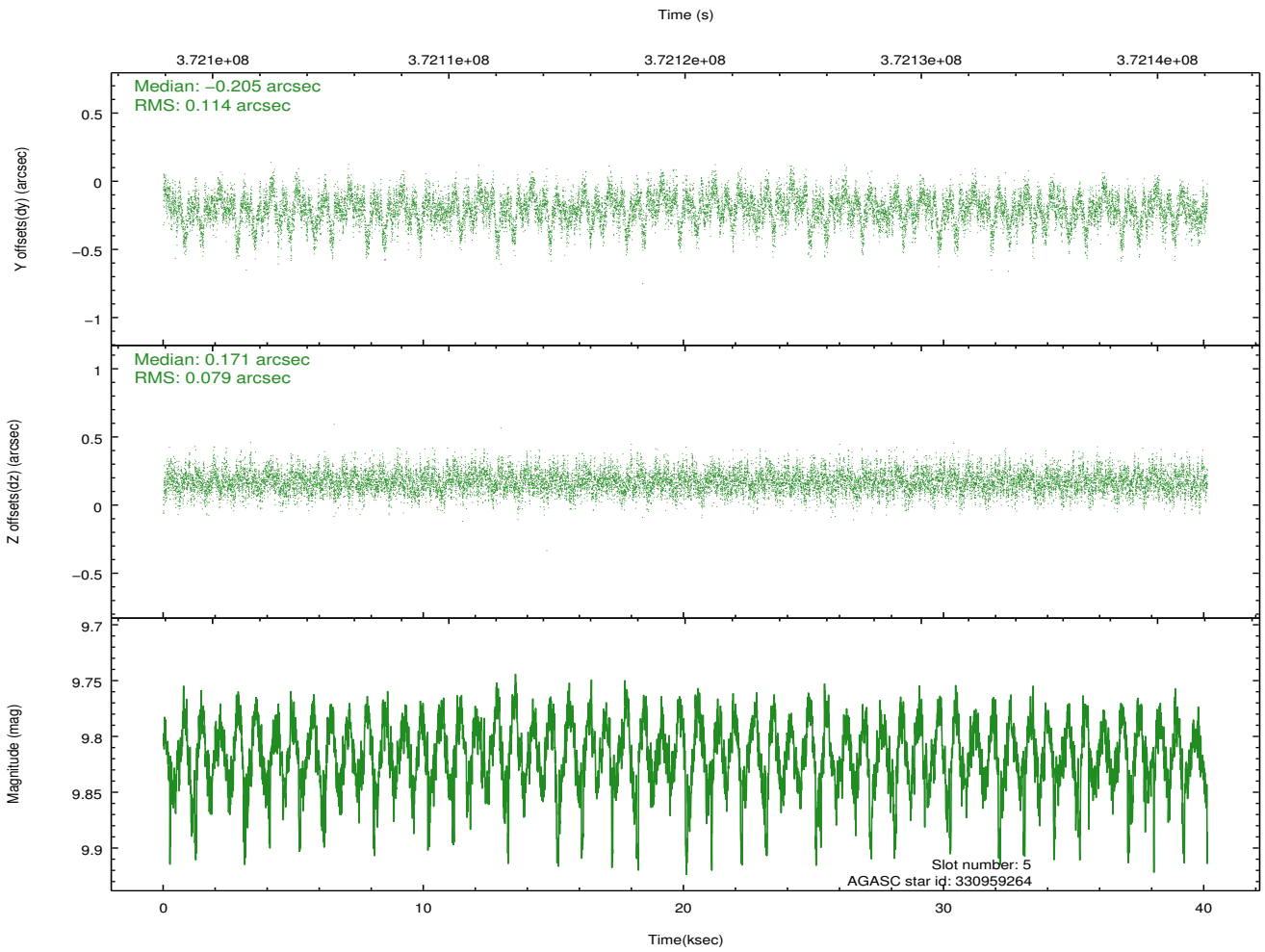
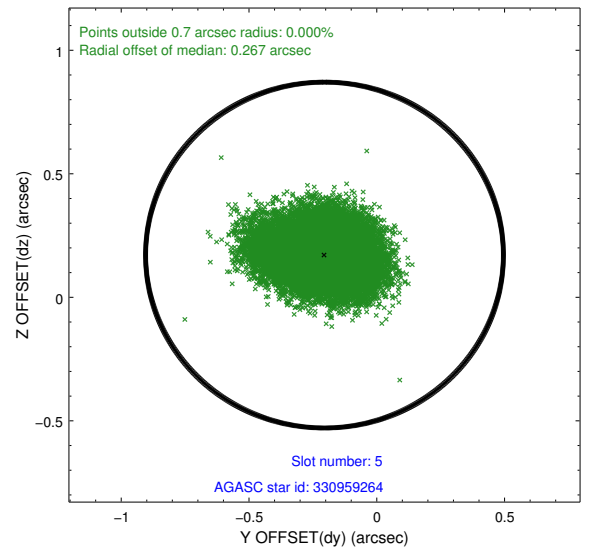
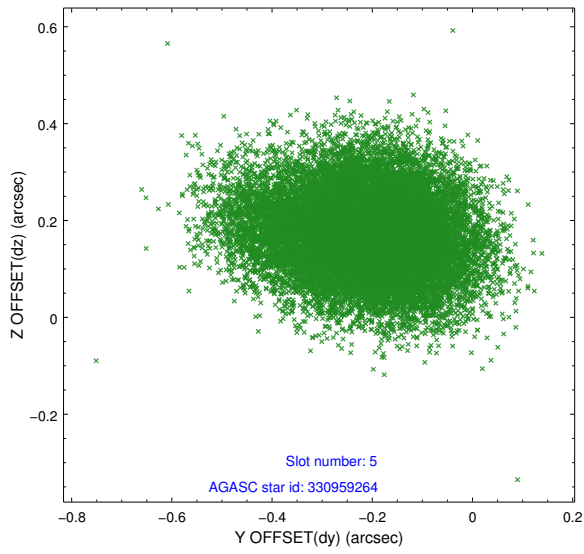
### 2.4.1 Slot 3



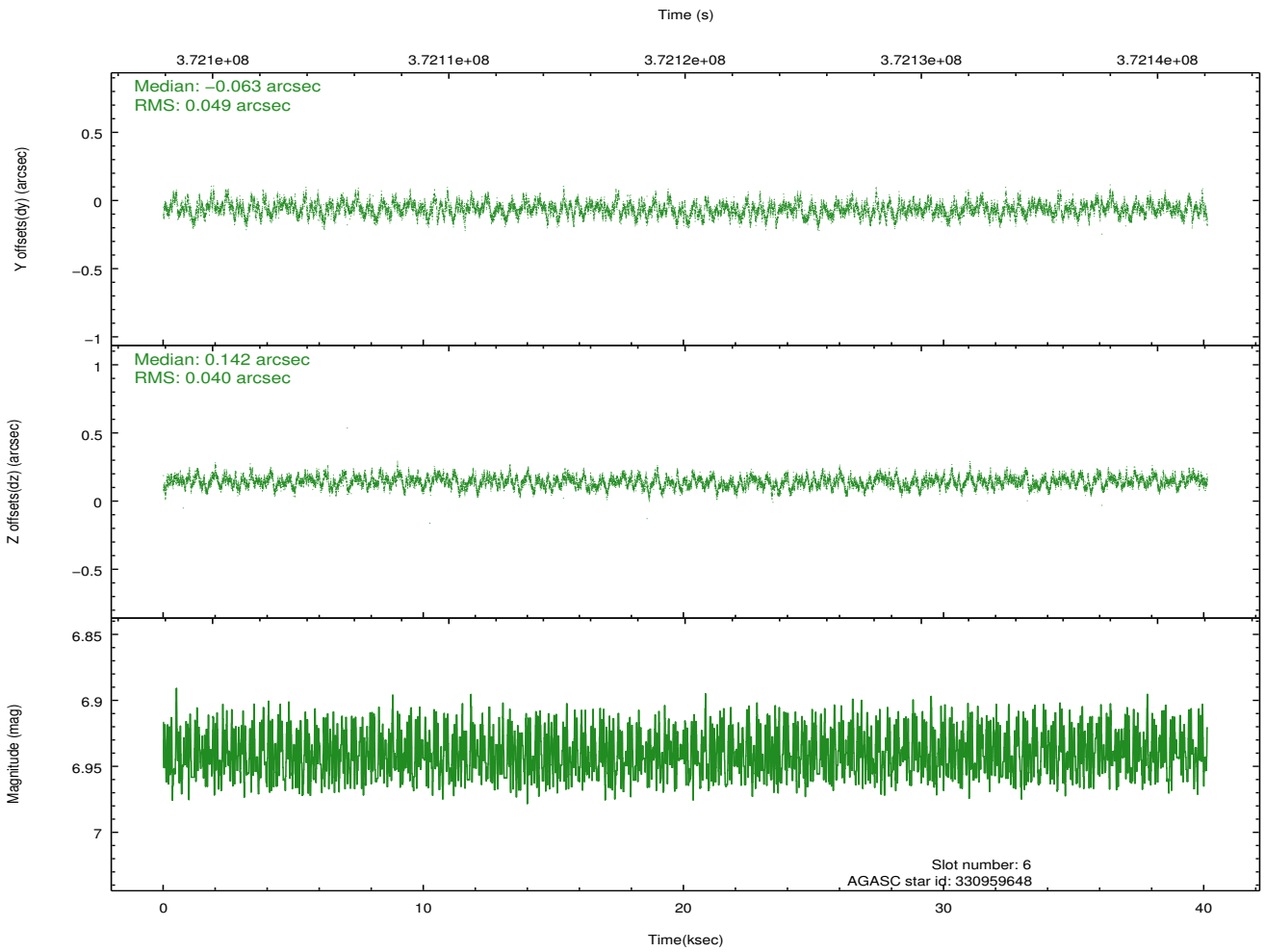
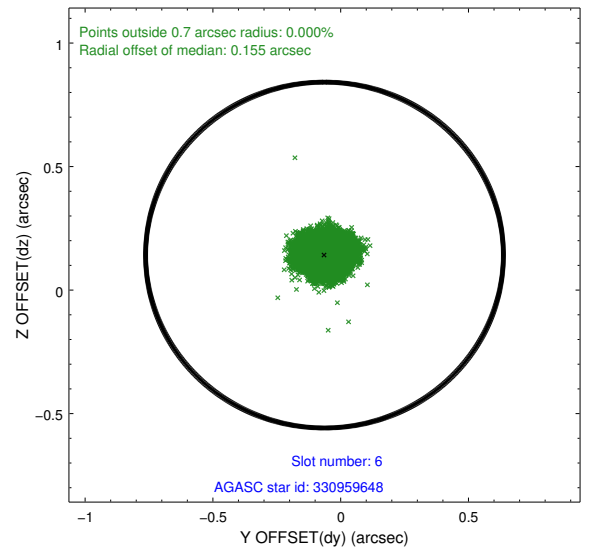
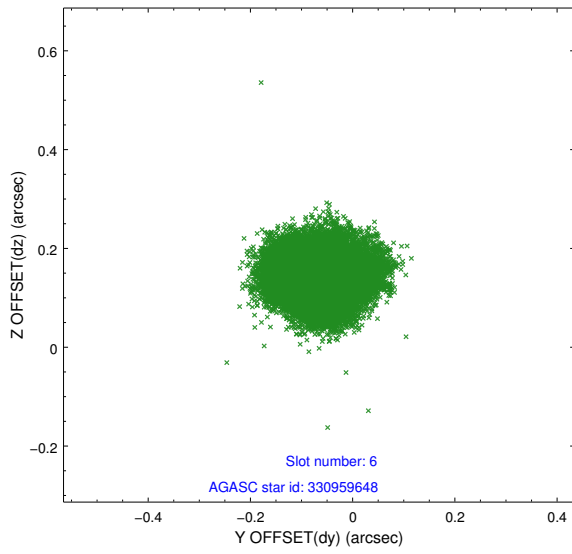
## 2.4.2 Slot 4



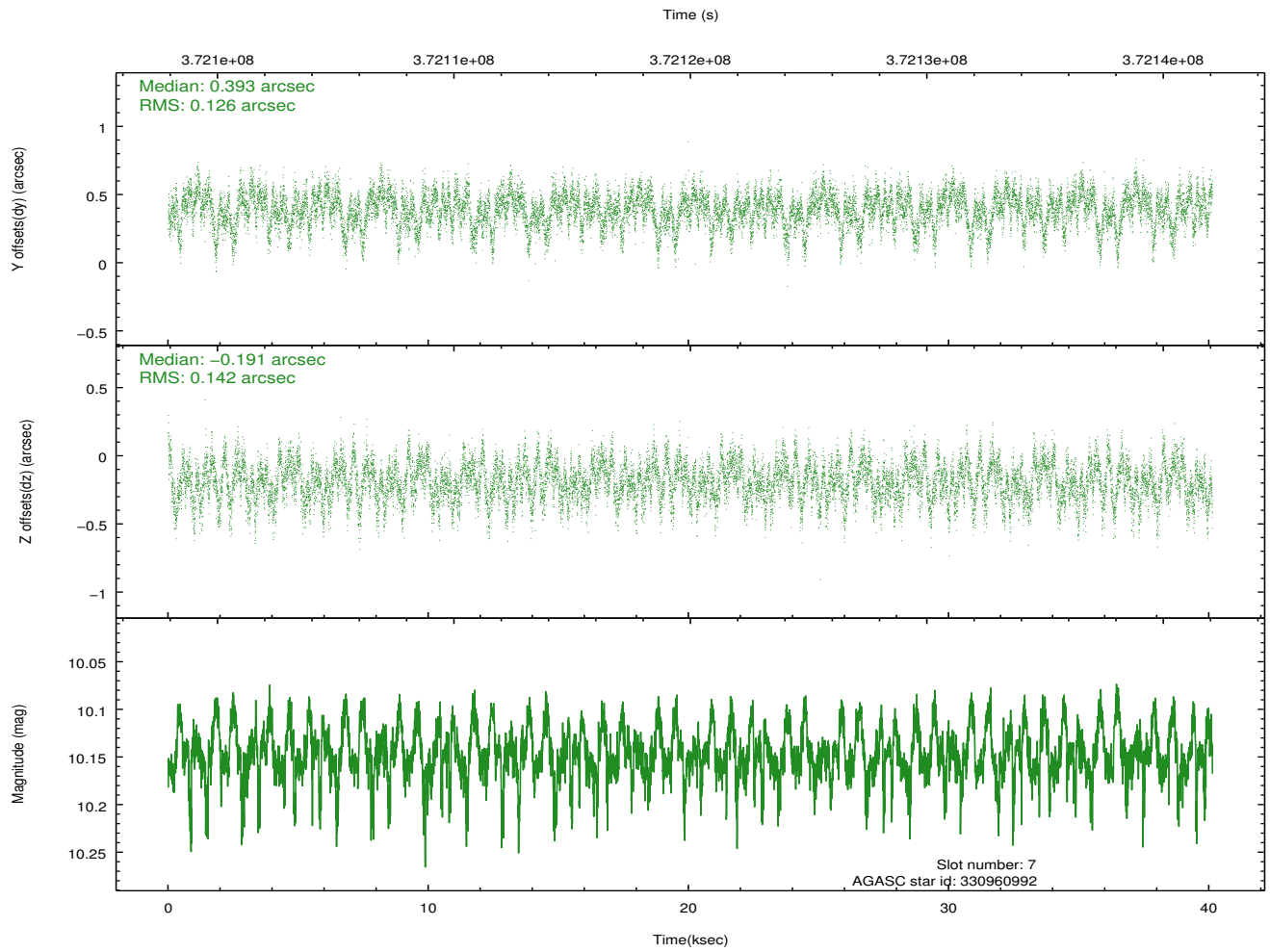
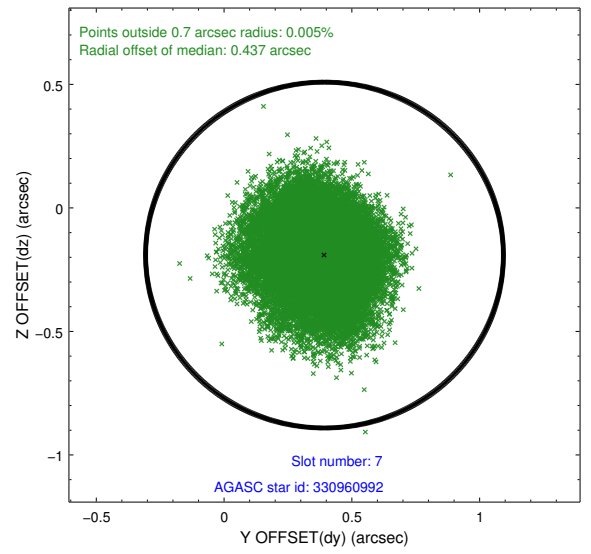
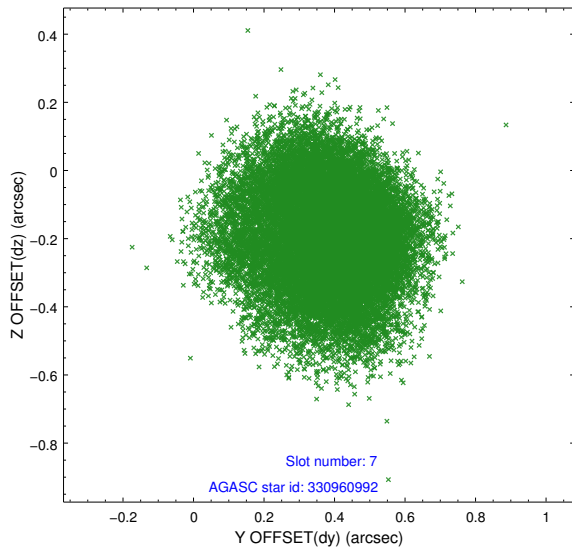
### 2.4.3 Slot 5



### 2.4.4 Slot 6

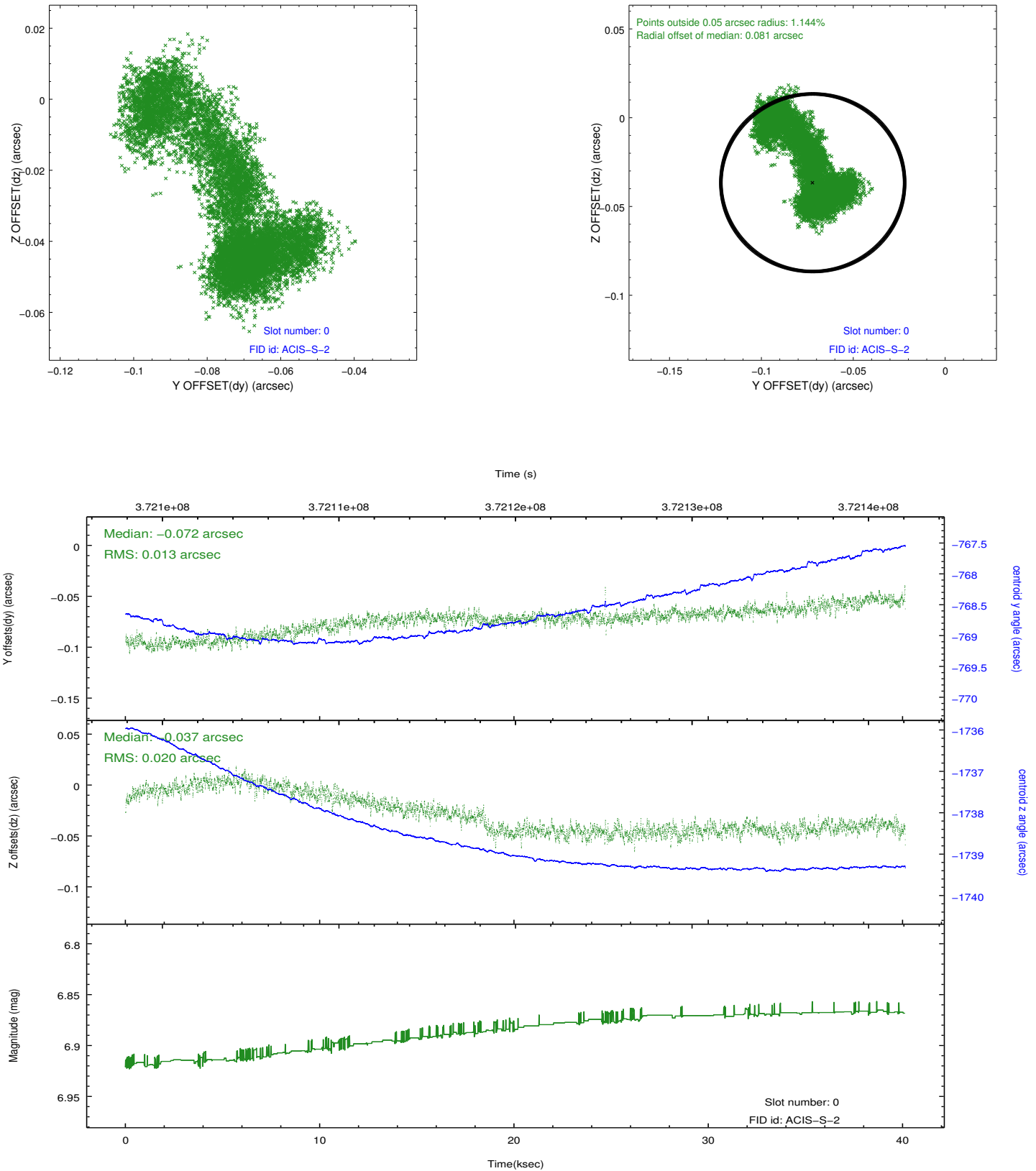


## 2.4.5 Slot 7

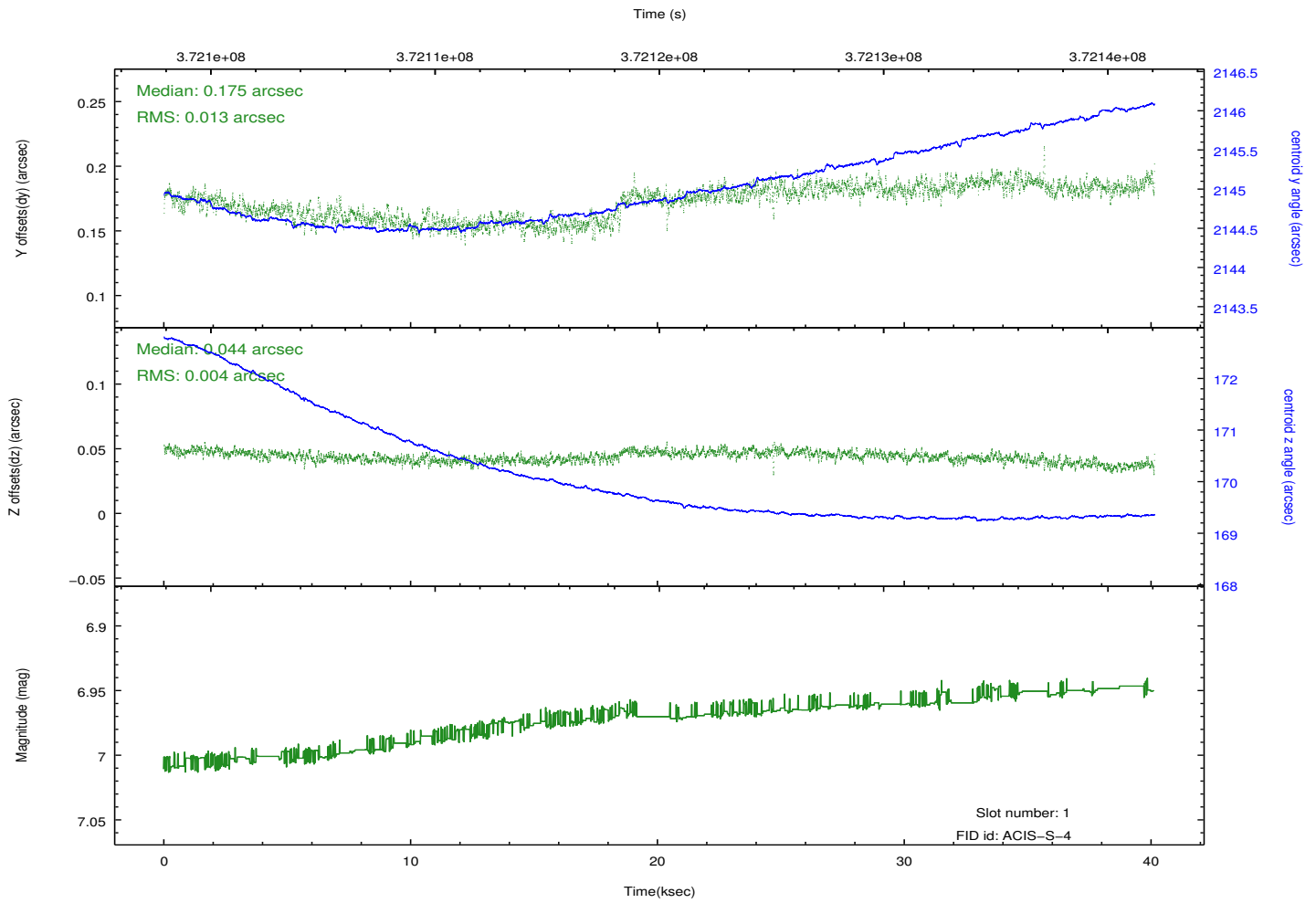
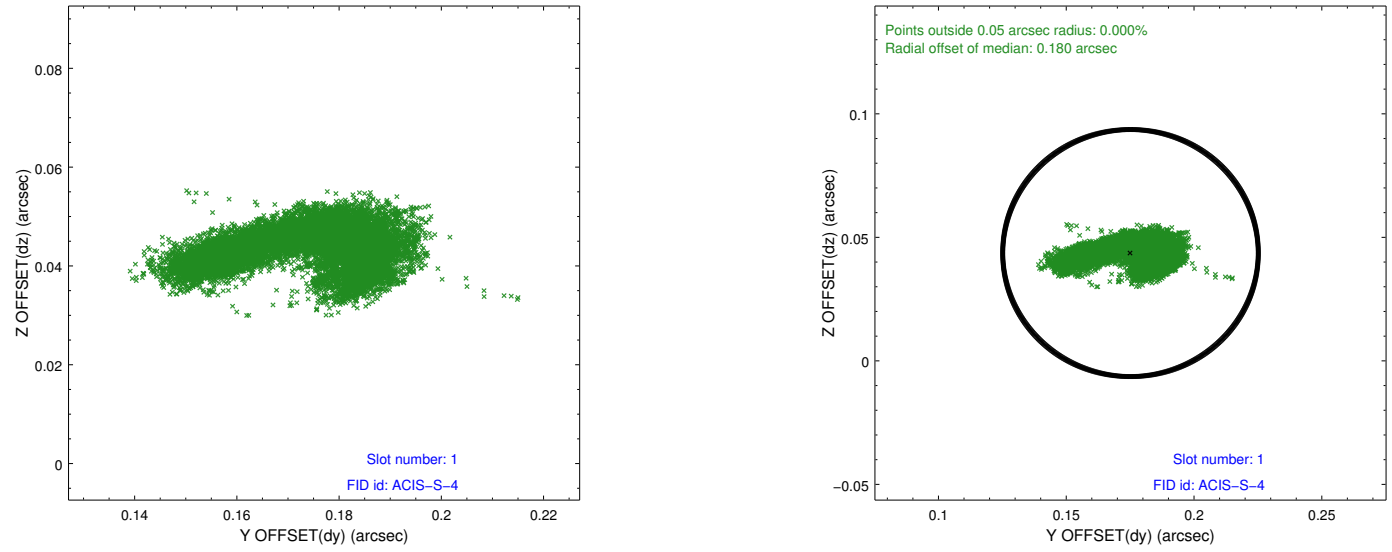


## 2.5 FID Slots

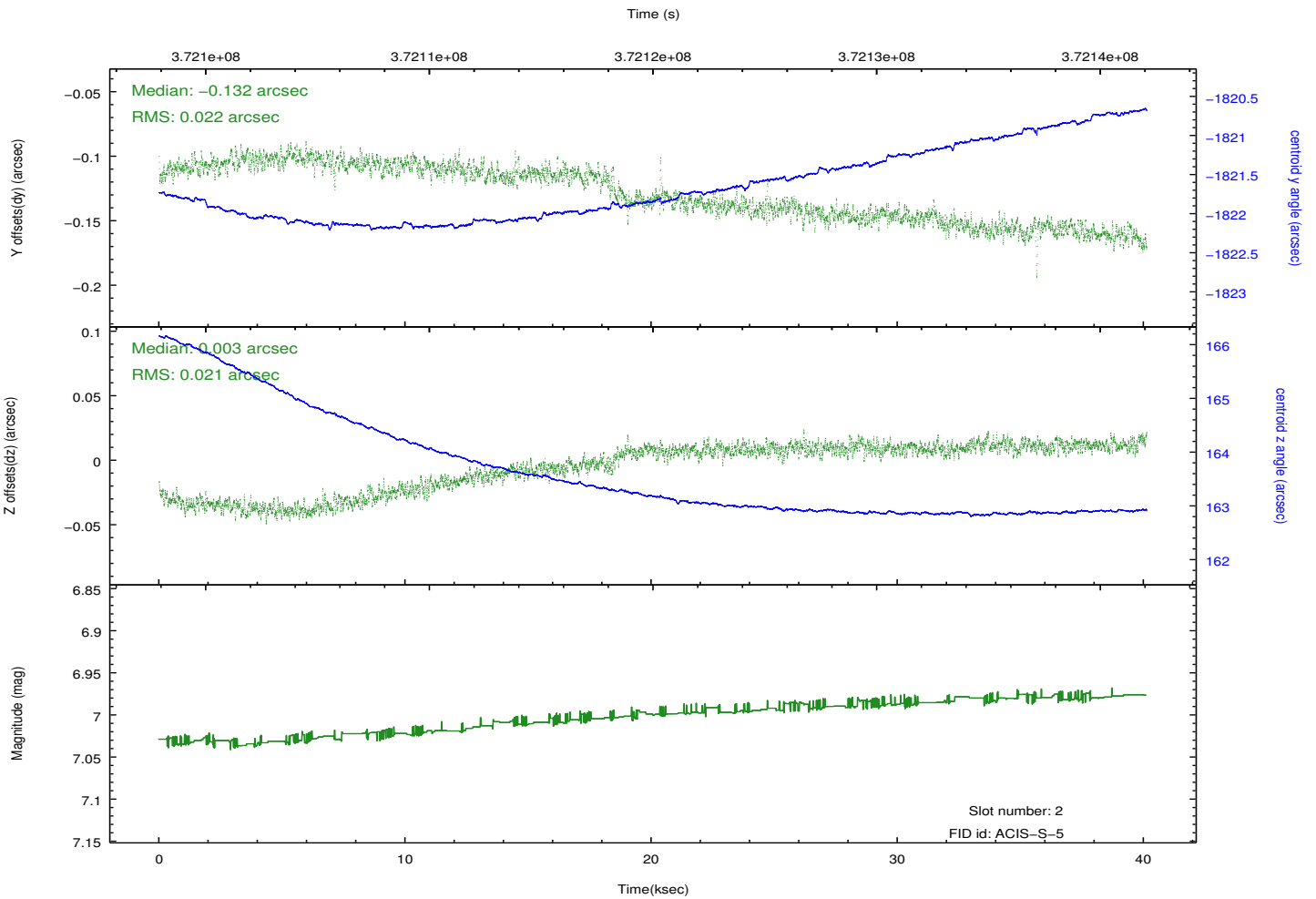
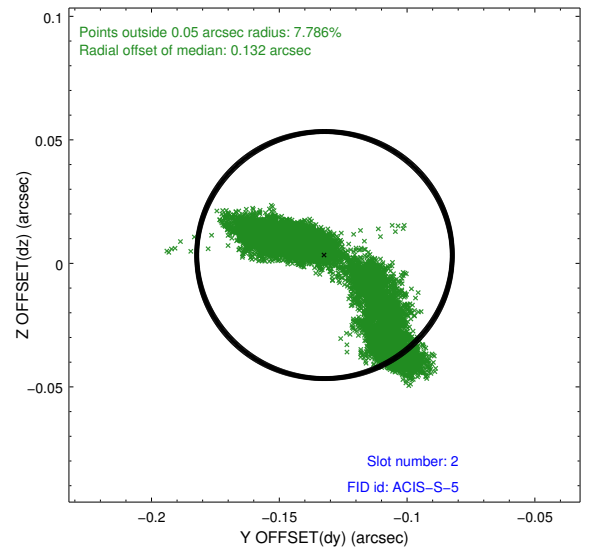
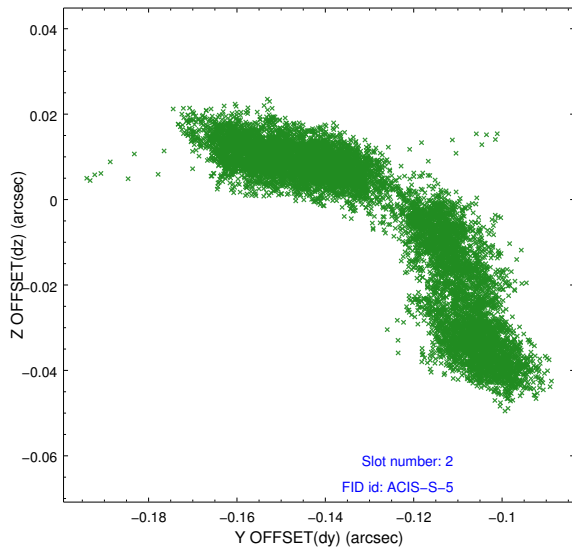
### 2.5.1 Slot 0



## 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)	2012.06.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.121599850595

## A.2 Comments