

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11588 - L2 Version 2  
Chandra X-Ray Center

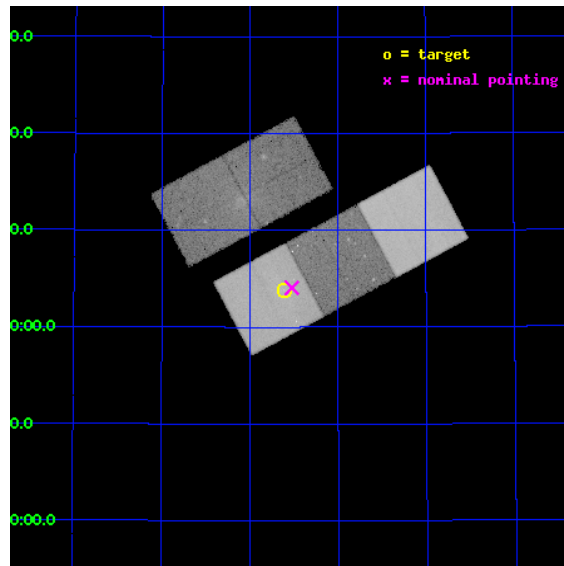
L2 Processing Date : Jun 19 2012

## 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

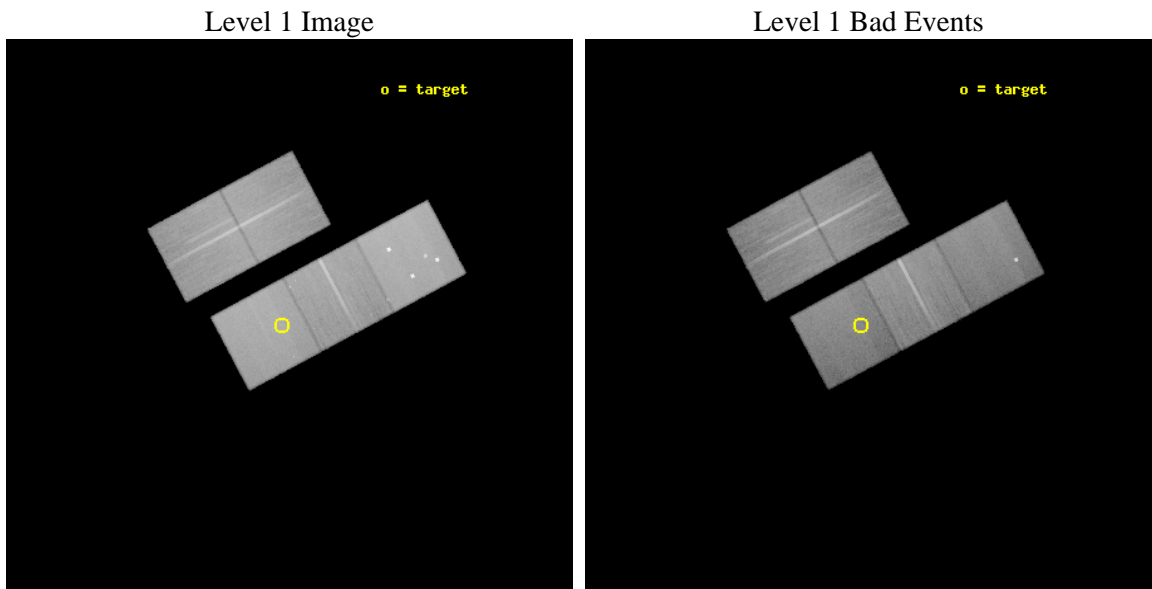
seq_num	702174	Sequence number
obs_id	11588	Observation id
title	Strong radio AGN in the center of galaxy groups	Proposal title
observer	Dr. Ming Sun	Principal investigator
object	A736	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	135.653333	Observer's specified target RA [deg]
dec_targ	52.063333	Observer's specified target Dec [deg]
ra_nom	135.63115921193	Nominal RA [deg]
dec_nom	52.06777459187	Nominal Dec [deg]
roll_nom	151.87166068154	Nominal Roll [deg]
revision	2	Processing version of data
ontime	41455.862438321	Sum of GTIs [s]
livetime	40914.211076203	Livetime [s]
ontime2	41439.993186653	Sum of GTIs [s]
ontime3	41440.034246802	Sum of GTIs [s]
ontime5	41455.821398318	Sum of GTIs [s]
ontime6	41452.639328122	Sum of GTIs [s]
ontime7	41455.862438321	Sum of GTIs [s]
l2events	537283	Number of level 2 events



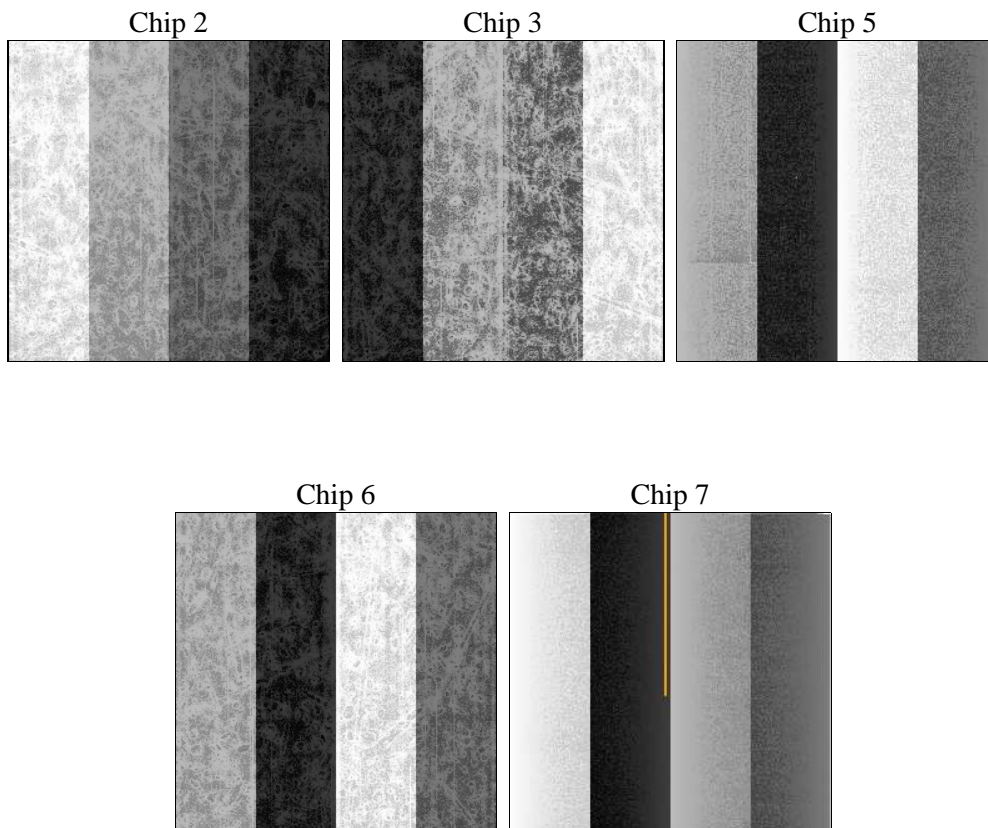
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	41422.092000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	41455.862438321	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime2	41439.993186653	Sum of GTIs [s]
date	2012-06-20T00:34:16	Date and time of file creation	ontime3	41440.034246802	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	41455.821398318	Sum of GTIs [s]
			ontime6	41452.639328122	Sum of GTIs [s]
			ontime7	41455.862438321	Sum of GTIs [s]
			l1events	2087929	Number of level 1 events

### 2.1.4 Events

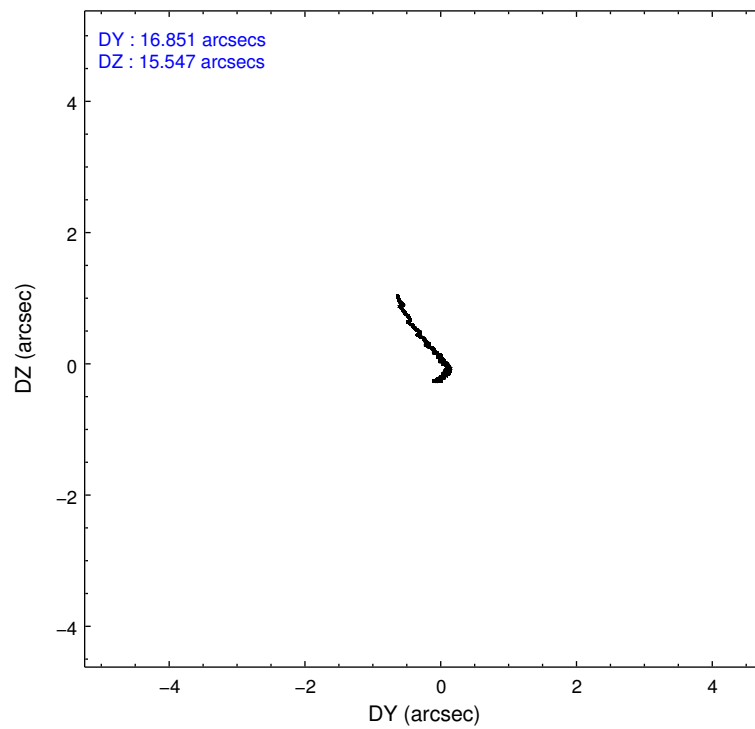
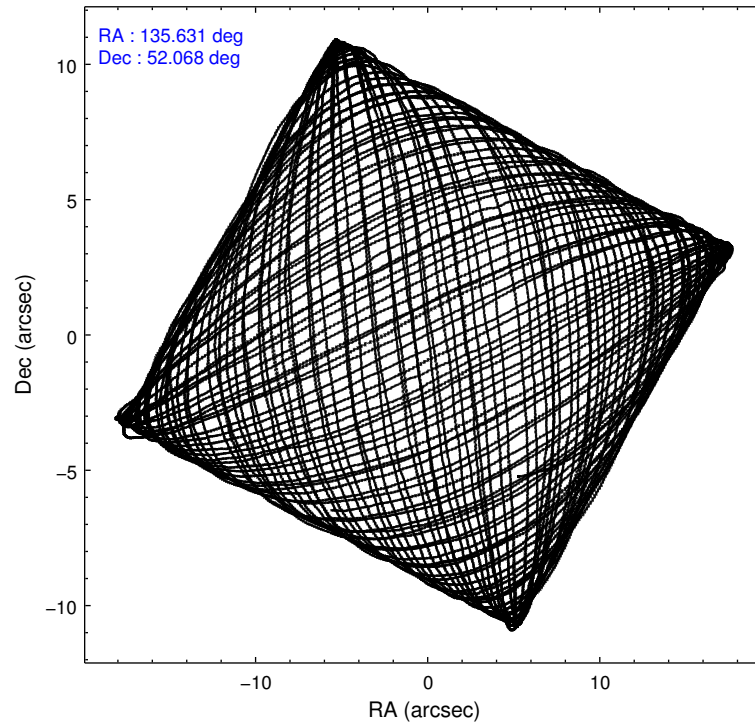
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	370899	362099	550303	375385	429243
rejected events	332196	324862	270495	334191	232674
rejected %	89%	89%	49%	89%	54%

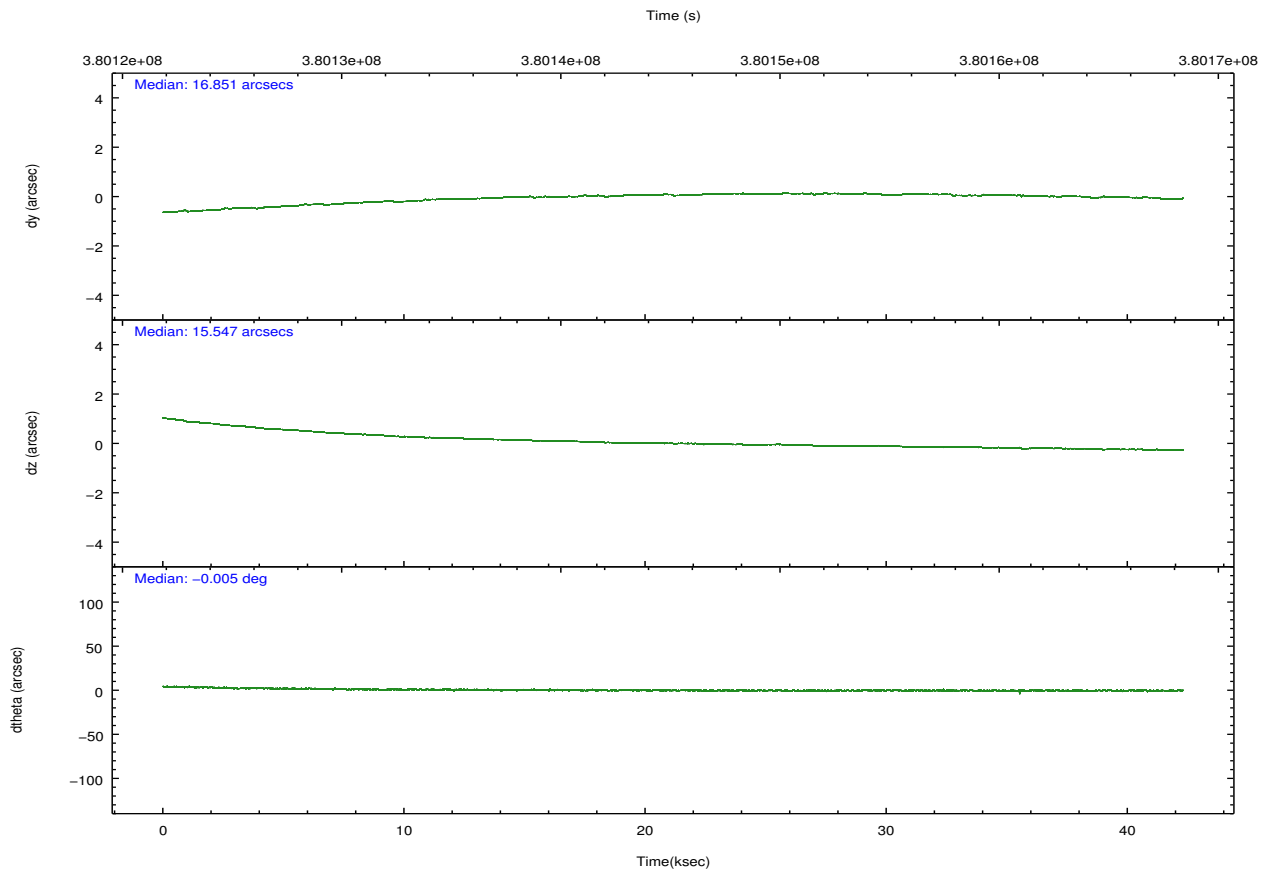
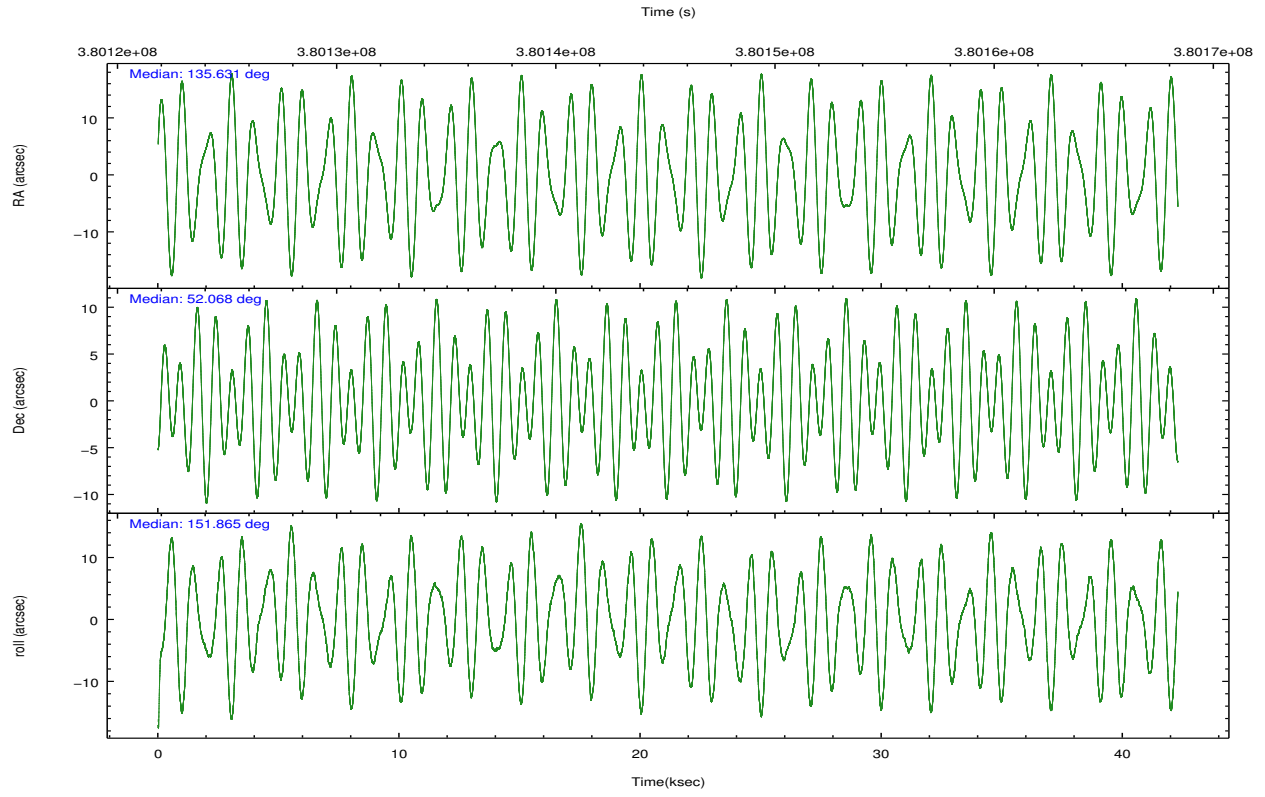
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	14788	14223	41045	15310	19310
	3%	3%	7%	4%	4%
grade 1 events	234	196	1022	212	579
	0%	0%	0%	0%	0%
grade 2 events	9106	8004	81279	9147	40616
	2%	2%	14%	2%	9%
grade 3 events	3914	4012	10560	4155	17737
	1%	1%	1%	1%	4%
grade 4 events	3997	3949	9658	4152	17722
	1%	1%	1%	1%	4%
grade 5 events	13096	15316	41317	15557	44512
	3%	4%	7%	4%	10%
grade 6 events	6906	7056	137308	8437	101211
	1%	1%	24%	2%	23%
grade 7 events	318858	309343	228114	318415	187556
	85%	85%	41%	84%	43%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	135.675571	135.631159211933	CCD I2 on	O1	Y
[deg] Pointing Dec	52.069032	52.06777459186954	CCD I3 on	Y	Y
[deg] Pointing Roll	151.680013	151.8716606815354	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	N	N
[s] Observation start time (MET)	380124854.184000	380123582.44664	CCD S5 on	N	N
Observation start date	2010-01-17T14:13:08	2010-01-17T13:53:02	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	380166276.184000	380166505.86131	On-chip summing requested	N	N
Observation end date	2010-01-18T01:43:30	2010-01-18T01:48:25	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



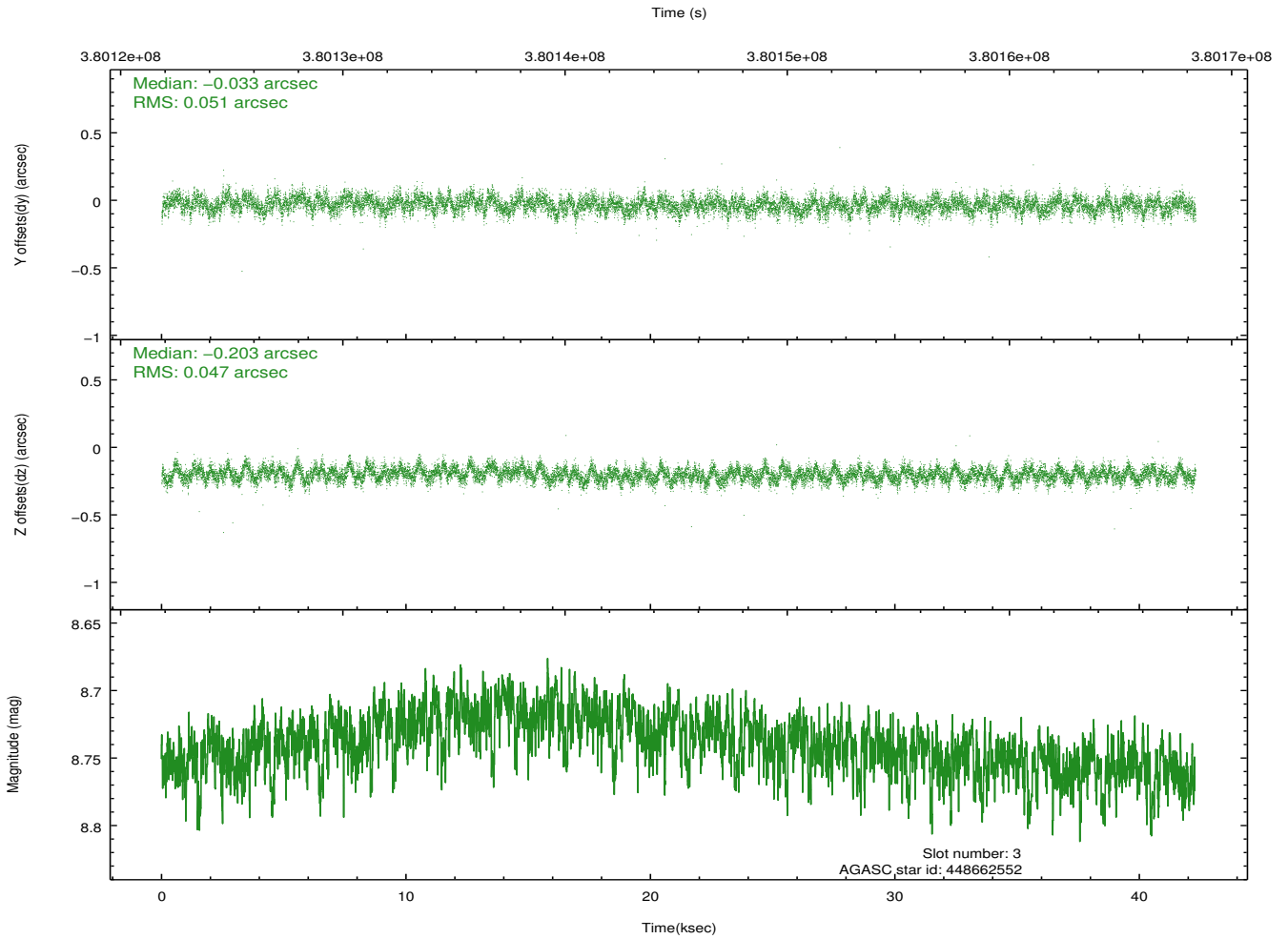
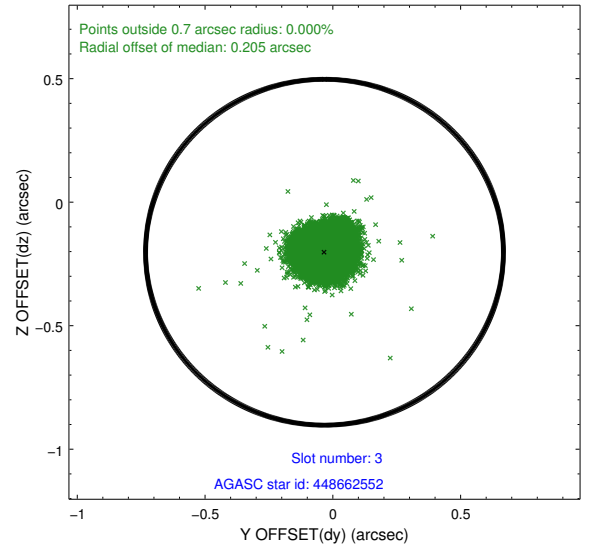
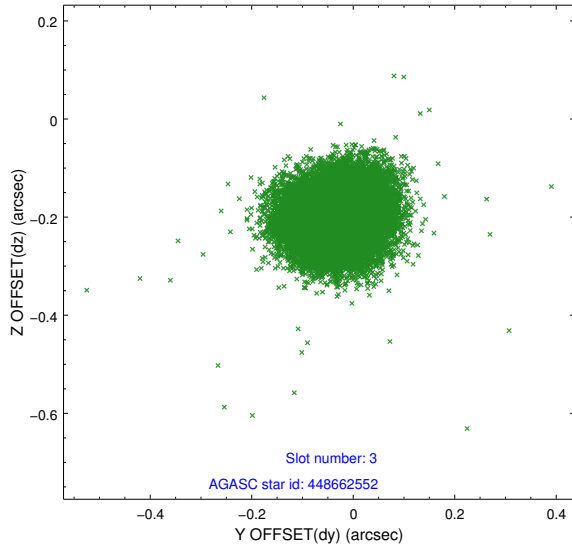


### Slot Statistics

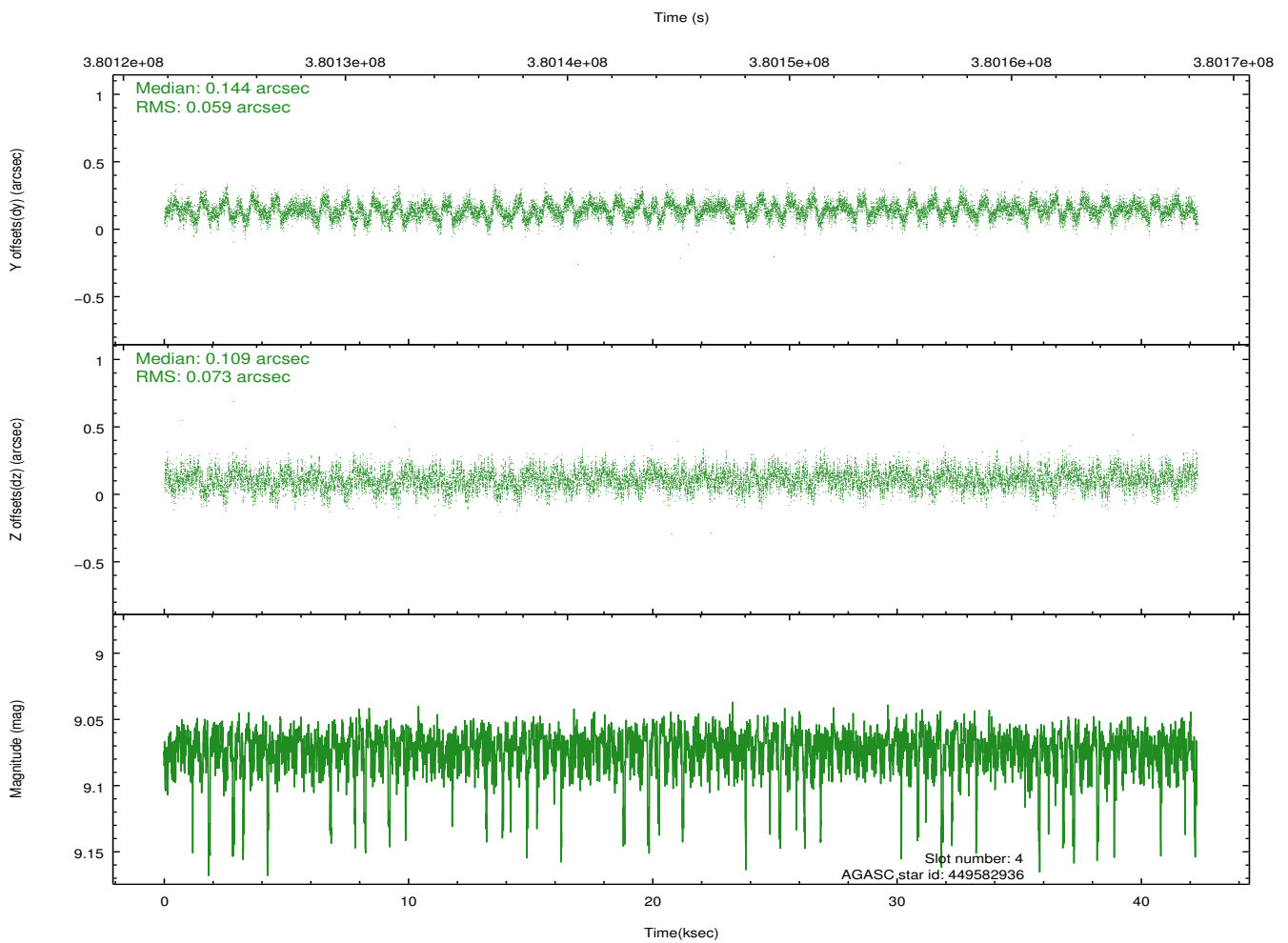
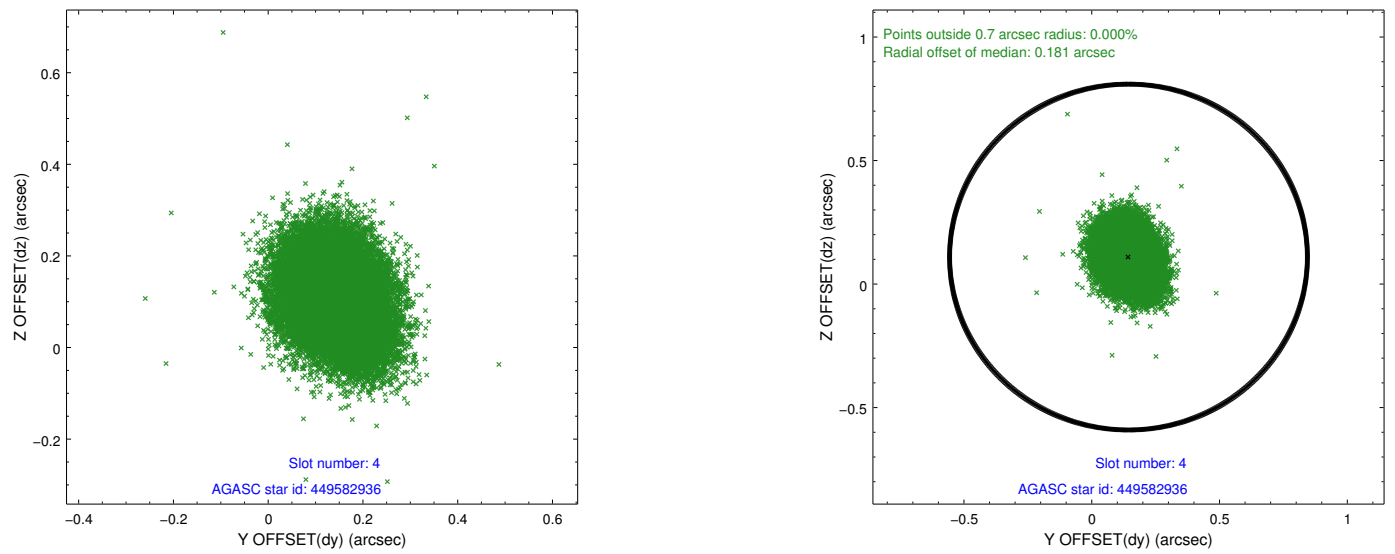
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.94	10316	-0.090	-0.016	0.008	0.013	0.000000	0.000000	-769.86	-1737.02
1	FID	ACIS-S-4	7.02	10315	0.181	0.048	0.007	0.013	0.000000	0.000000	2143.66	171.56
2	FID	ACIS-S-5	7.05	10315	-0.122	-0.023	0.008	0.013	0.000000	0.000000	-1822.75	165.12
3	GUIDE	448662552	8.74	20567	-0.033	-0.203	0.074	0.118	134.676173	52.003225	1844.77	1246.49
4	GUIDE	449582936	9.07	20587	0.144	0.109	0.100	0.161	136.721399	52.470378	-1324.87	-2374.20
5	GUIDE	498737368	9.48	20531	0.091	0.068	0.110	0.179	135.274679	52.679846	1815.20	-1522.36
6	GUIDE	498742288	9.17	20541	-0.112	0.035	0.112	0.181	135.820967	52.761547	904.26	-2345.14
7	GUIDE	449583240	9.05	20606	-0.086	-0.009	0.110	0.171	135.981233	51.615191	-1375.73	1112.90

## 2.4 Star Slots

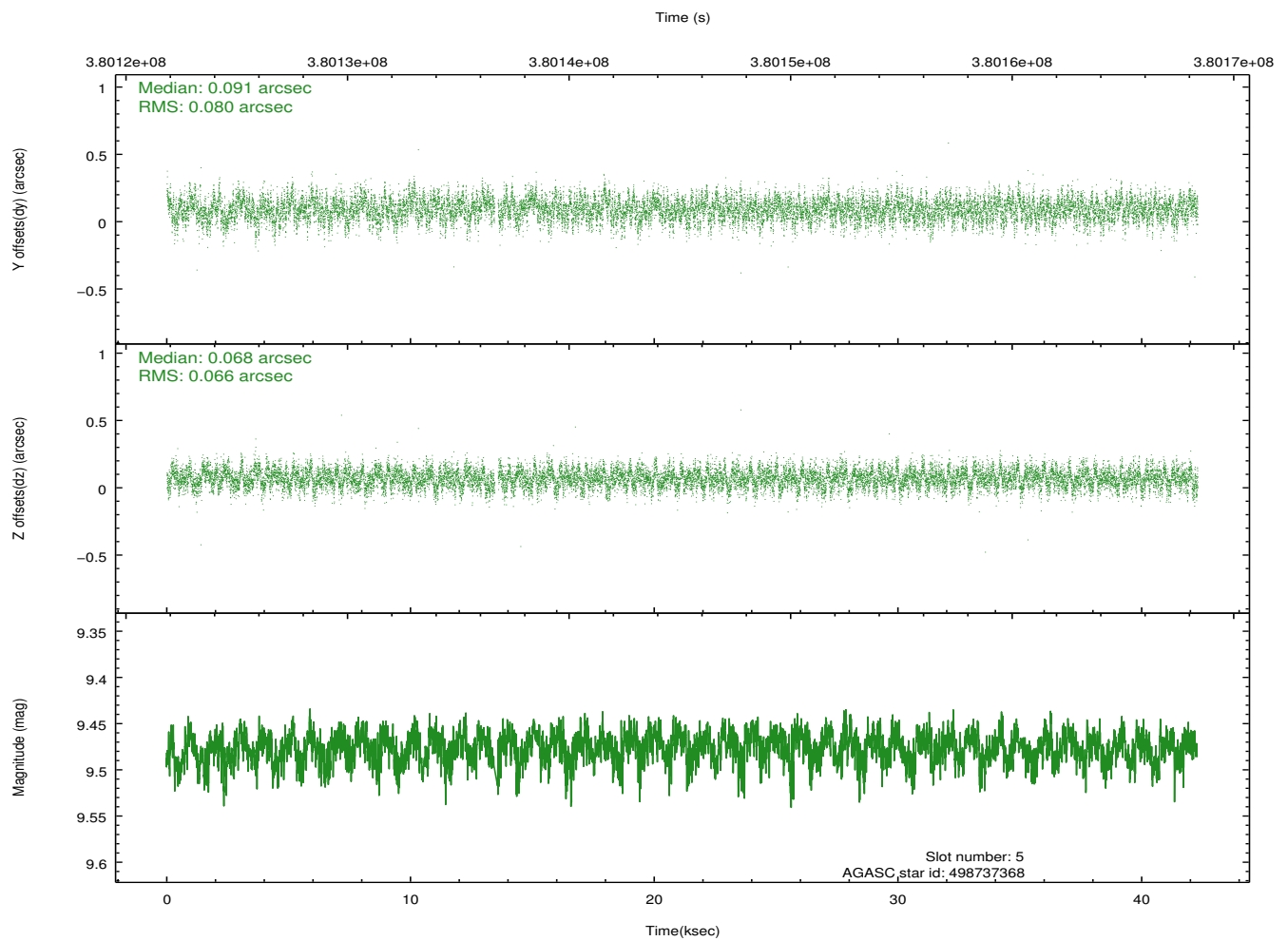
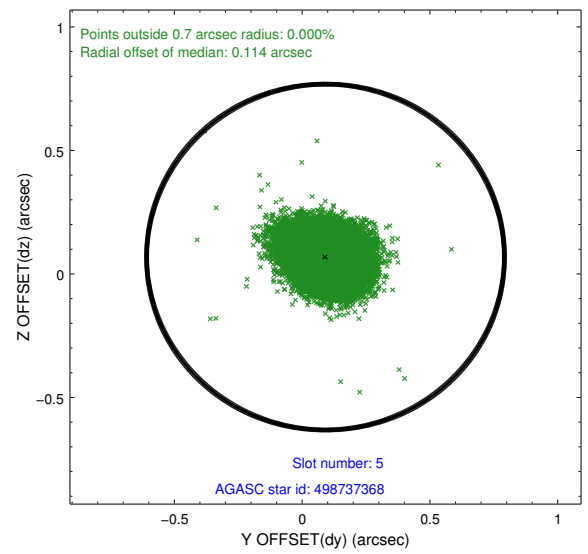
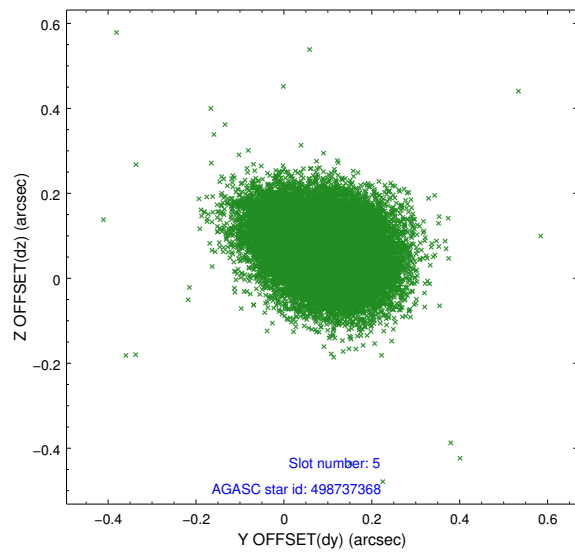
### 2.4.1 Slot 3



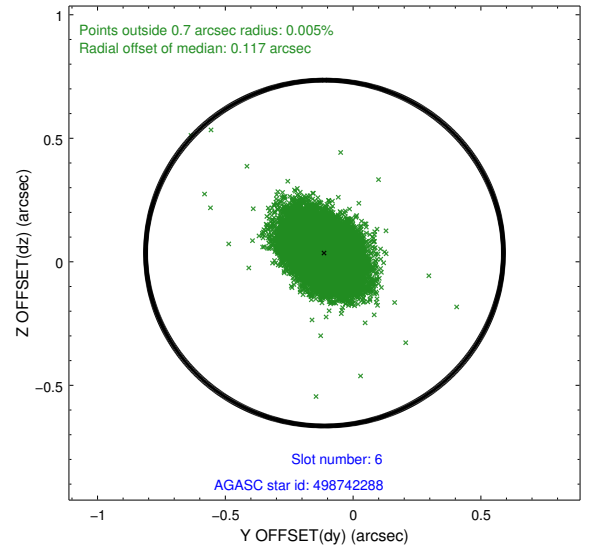
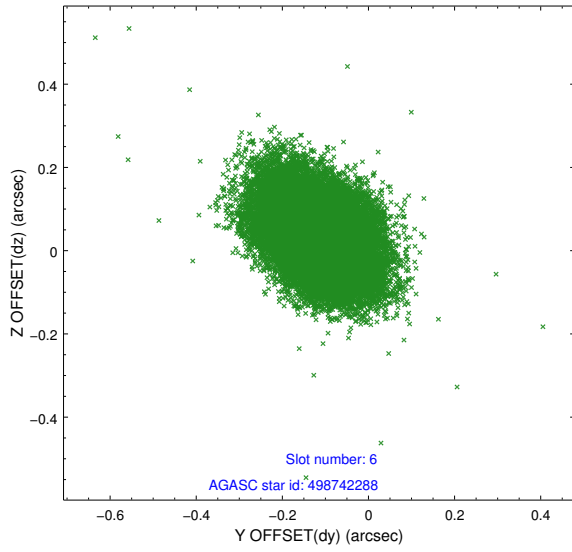
## 2.4.2 Slot 4



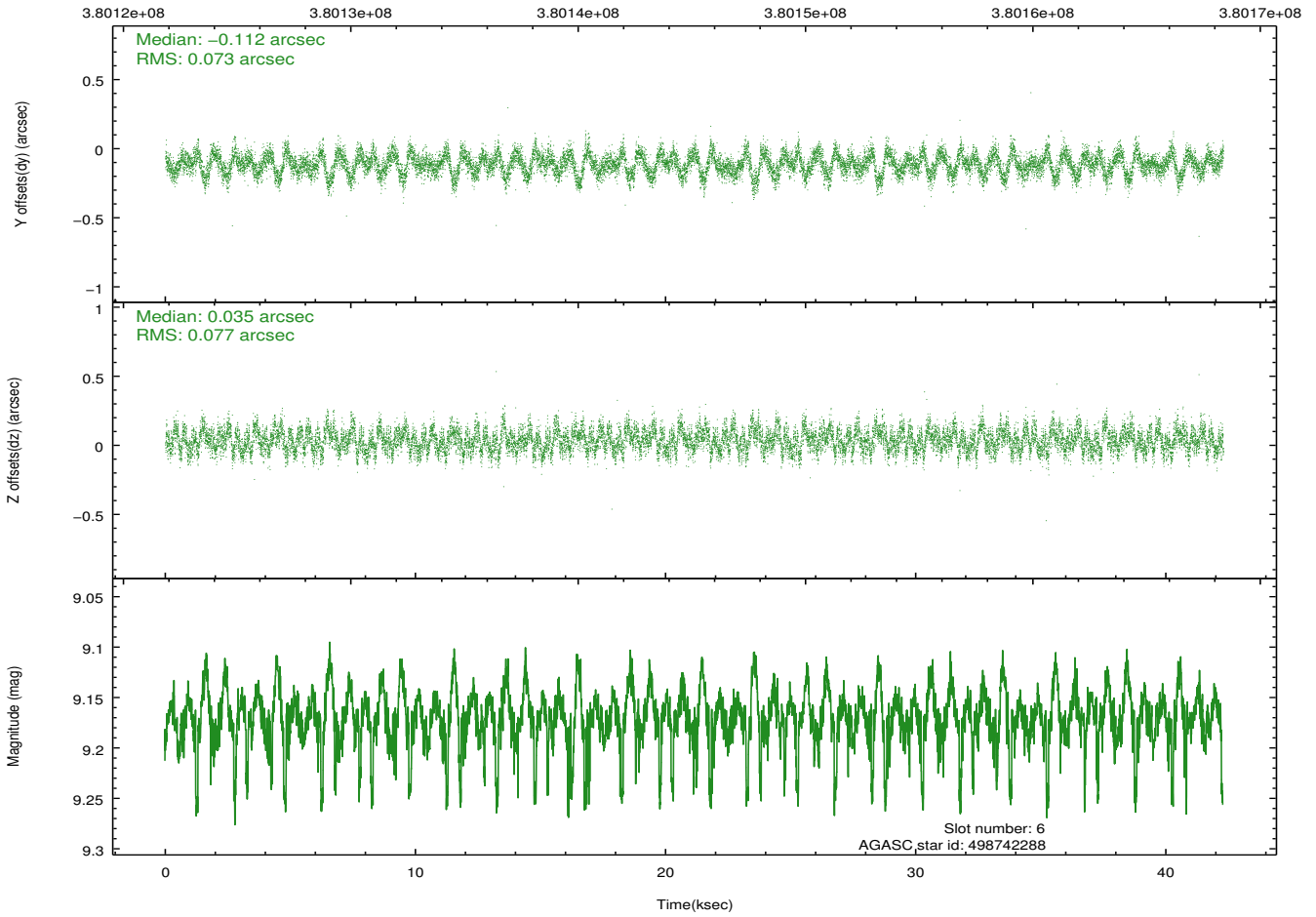
### 2.4.3 Slot 5



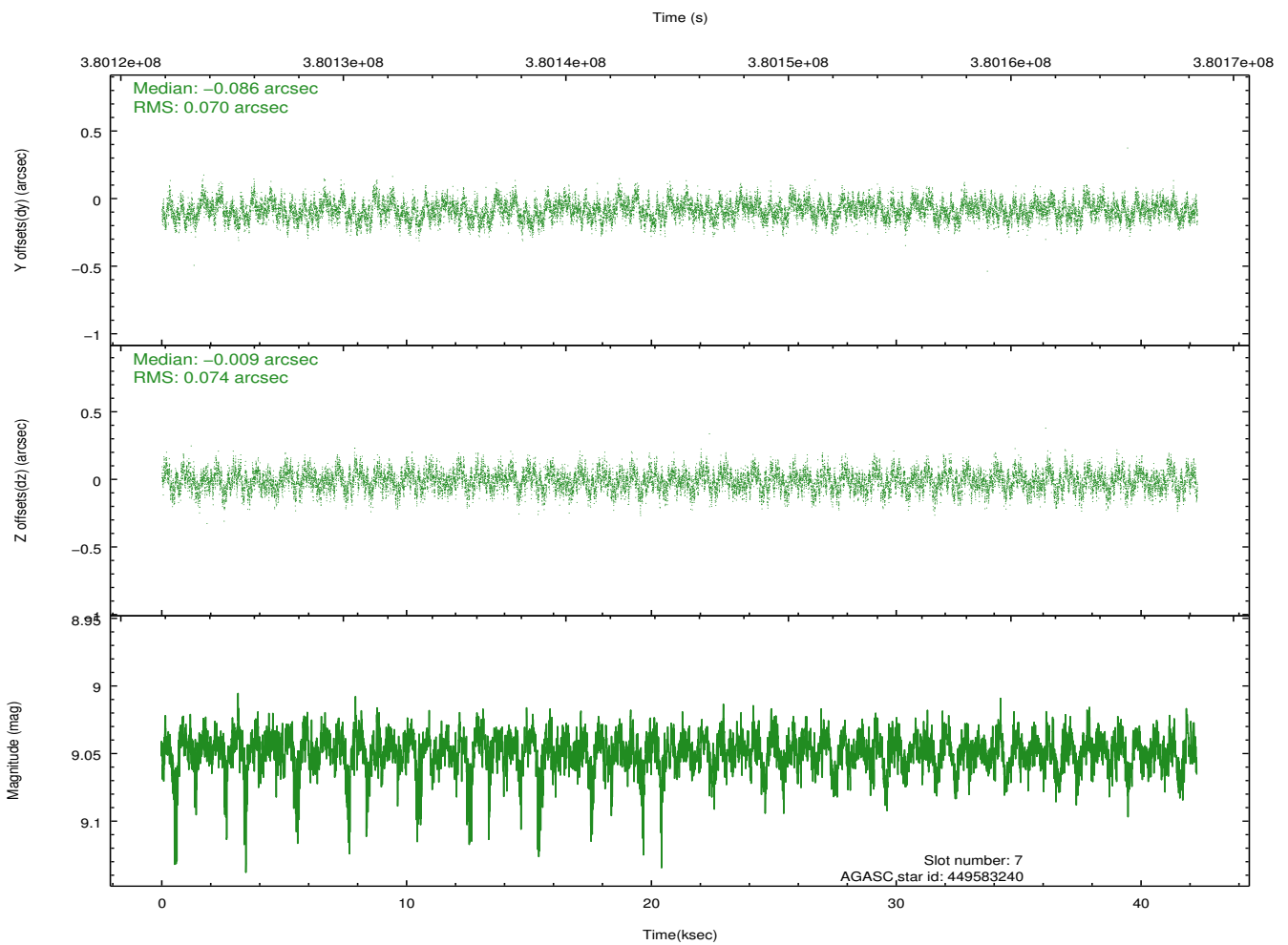
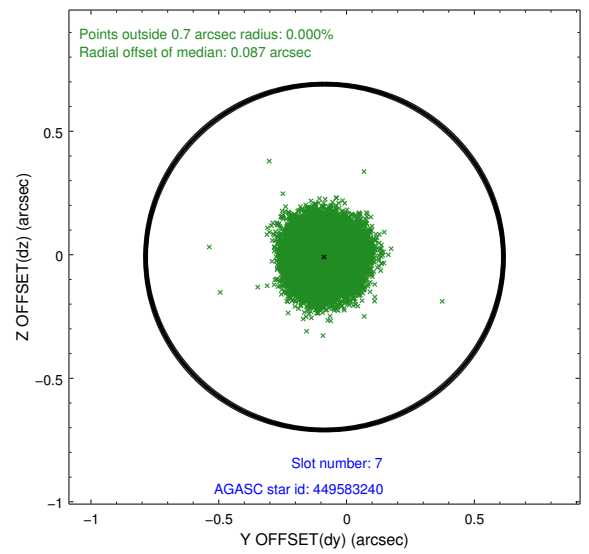
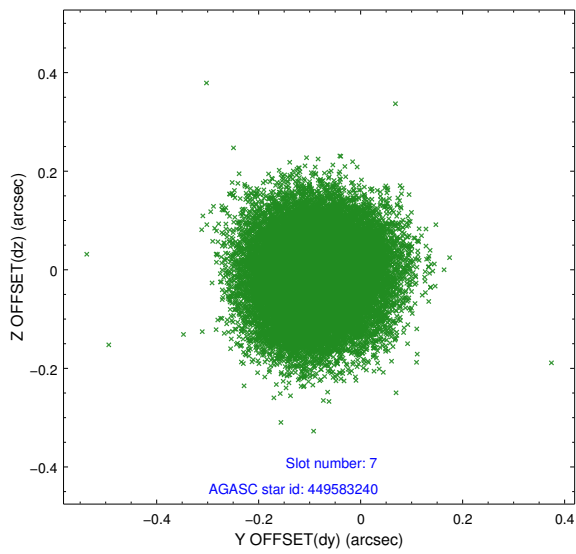
## 2.4.4 Slot 6



Time (s)

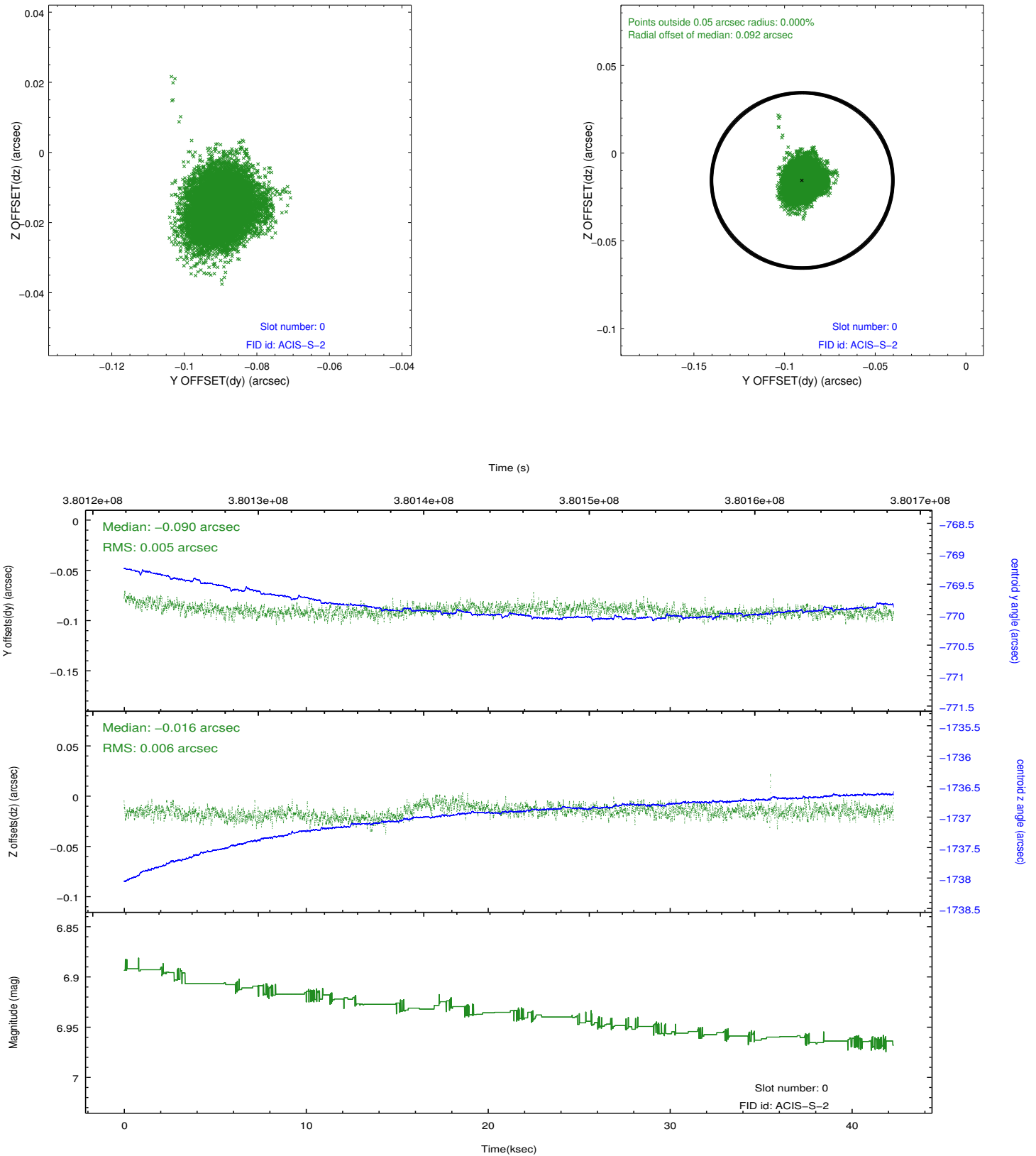


## 2.4.5 Slot 7

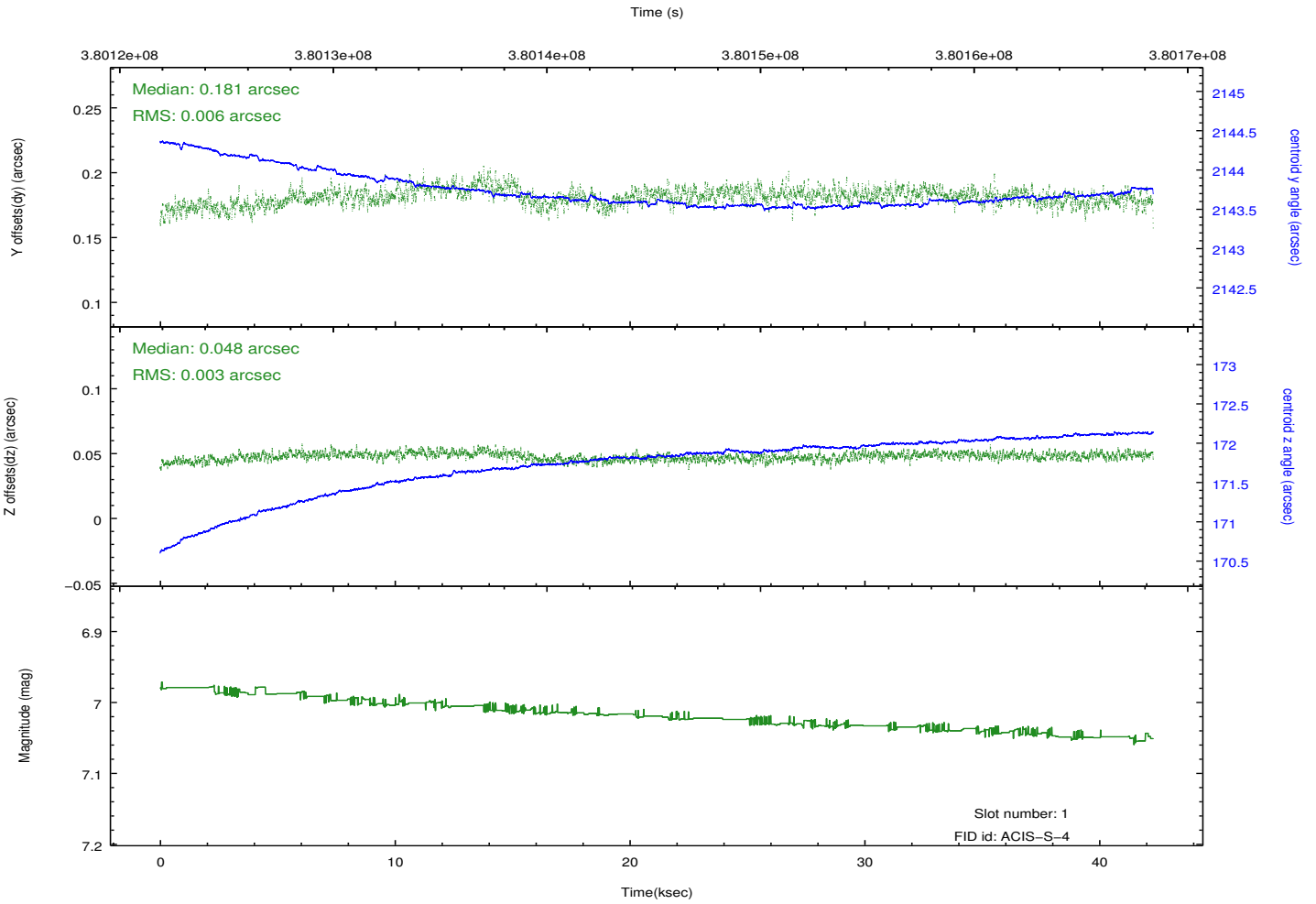
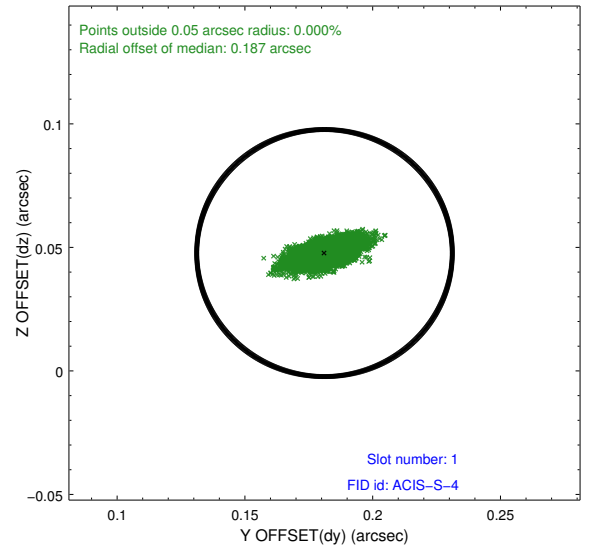
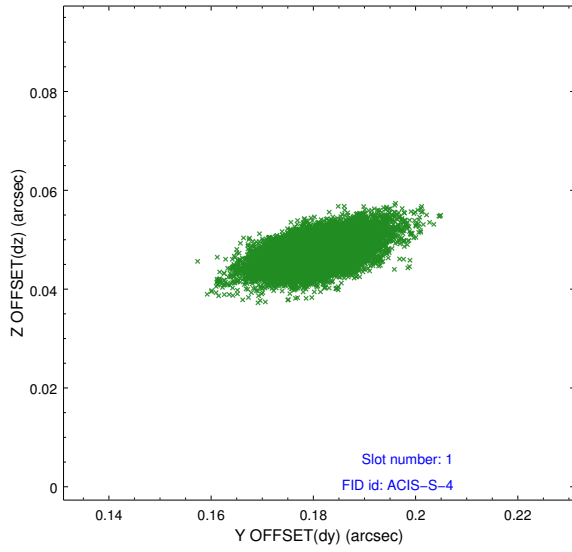


## 2.5 FID Slots

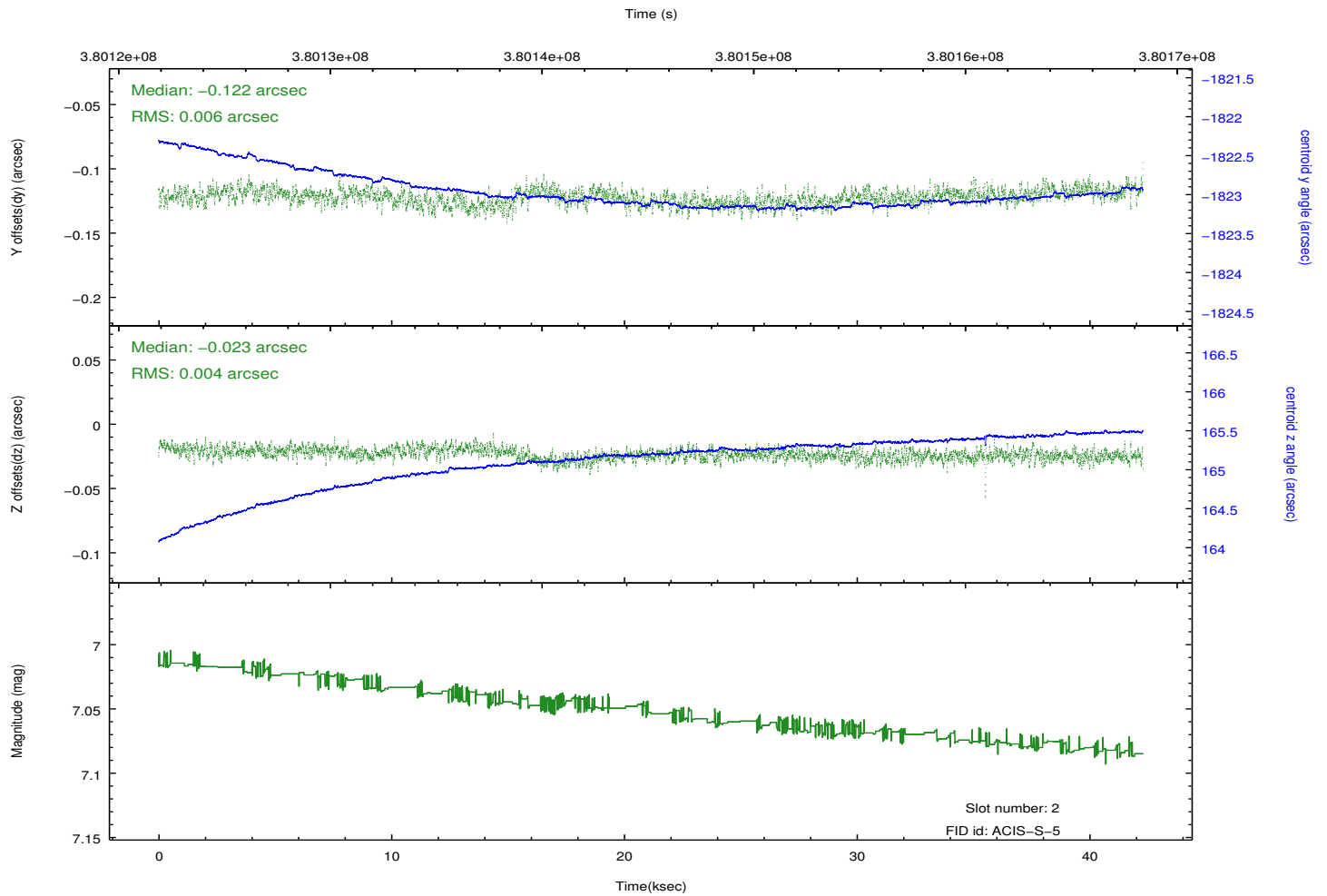
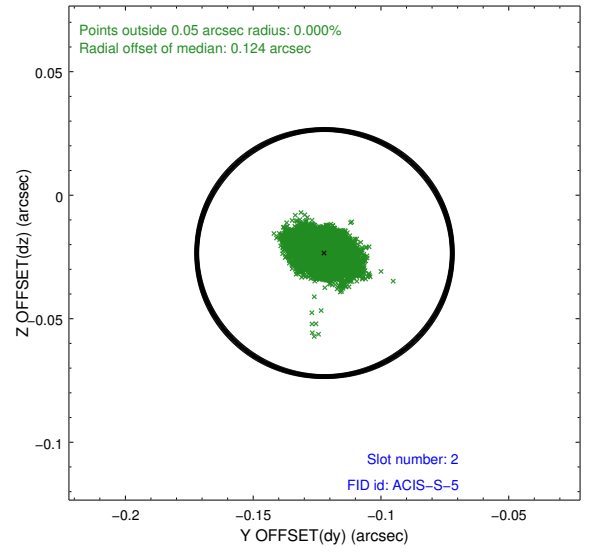
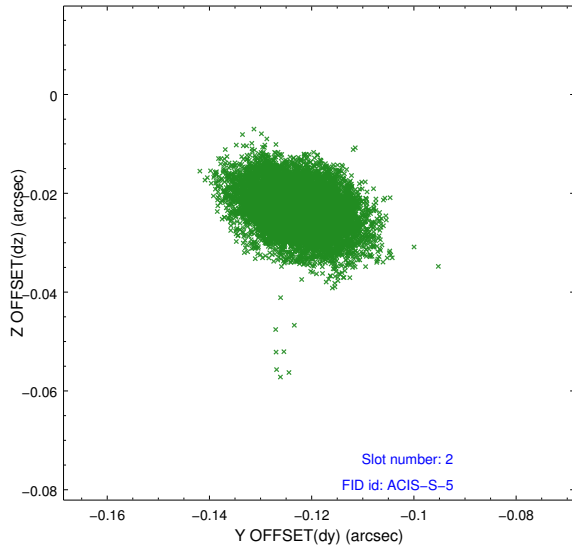
### 2.5.1 Slot 0



## 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)	2012.06.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.4558624354

## A.2 Comments