

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9616 - L2 Version 2  
Chandra X-Ray Center

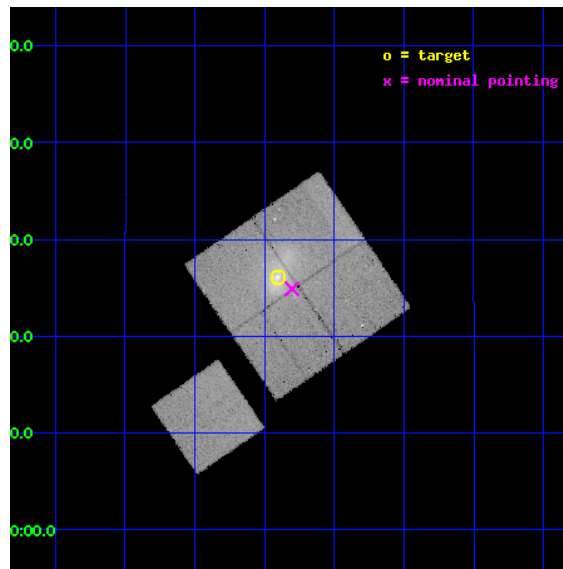
L2 Processing Date : May 12 2012

## 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

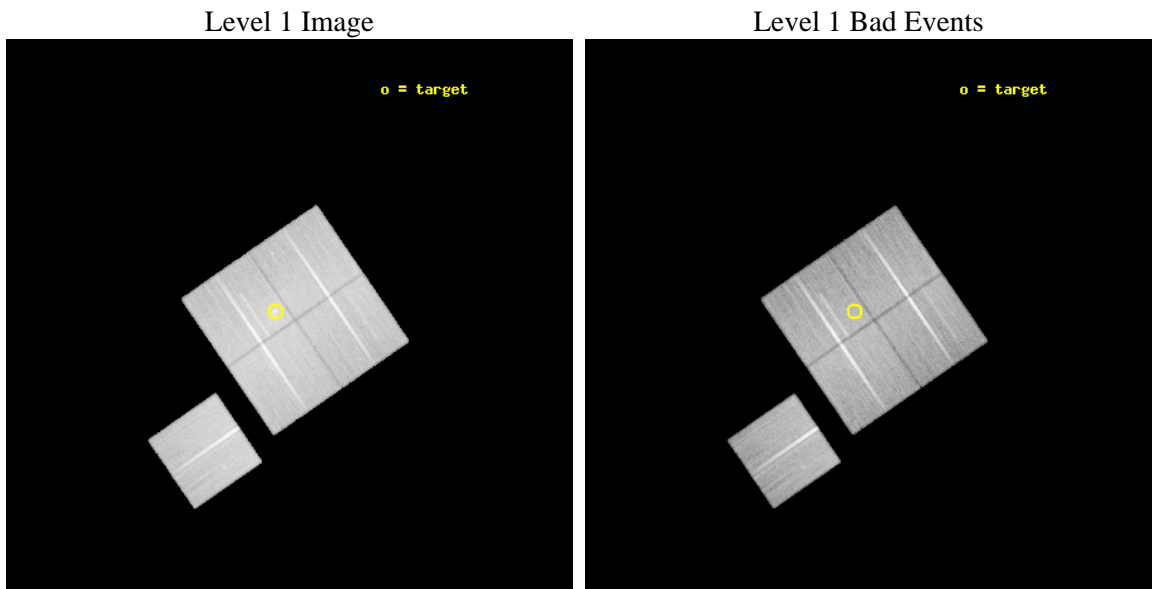
seq_num	800770	Sequence number
obs_id	9616	Observation id
title	Effects of the merger in Abell 1201	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	Abell 1201	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.22625	Observer's specified target RA [deg]
dec_targ	13.435833	Observer's specified target Dec [deg]
ra_nom	168.20098757167	Nominal RA [deg]
dec_nom	13.415073071185	Nominal Dec [deg]
roll_nom	235.53113723683	Nominal Roll [deg]
revision	2	Processing version of data
ontime	48037.518358886	Sum of GTIs [s]
livetime	47409.872816821	Livetime [s]
ontime0	48031.236338258	Sum of GTIs [s]
ontime1	48031.236328423	Sum of GTIs [s]
ontime2	48034.377348483	Sum of GTIs [s]
ontime3	48037.518358886	Sum of GTIs [s]
ontime6	48037.5183689	Sum of GTIs [s]
l2events	186646	Number of level 2 events



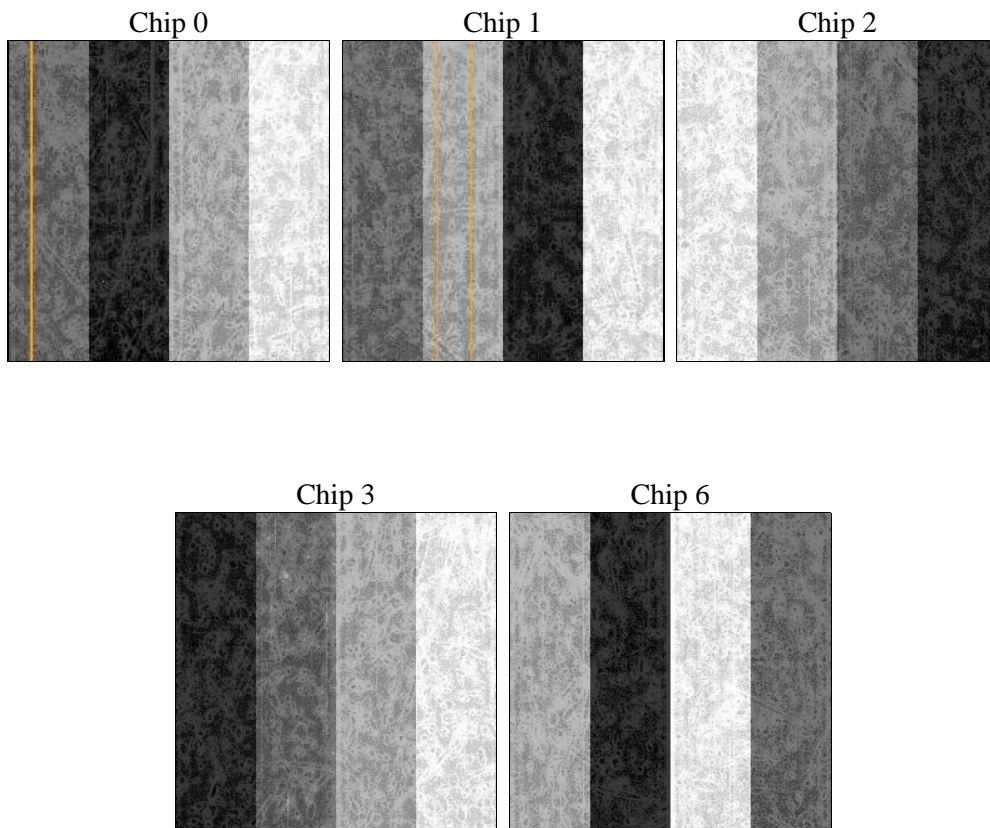
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	48000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	48037.518358886	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	48031.236338258	Sum of GTIs [s]
date	2012-05-12T15:11:45	Date and time of file creation	ontime1	48031.236328423	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	48034.377348483	Sum of GTIs [s]
			ontime3	48037.518358886	Sum of GTIs [s]
			ontime6	48037.5183689	Sum of GTIs [s]
			l1events	1892579	Number of level 1 events

### 2.1.4 Events

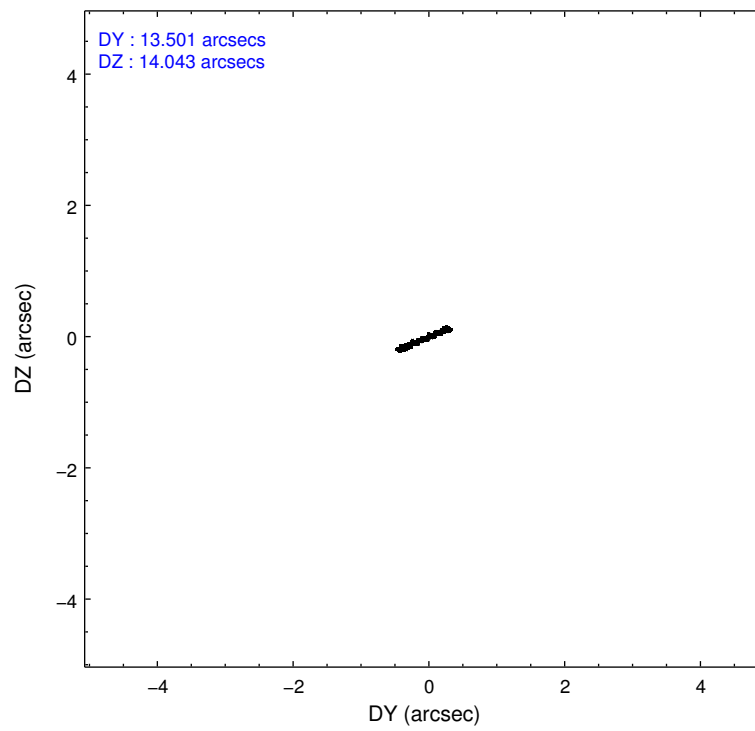
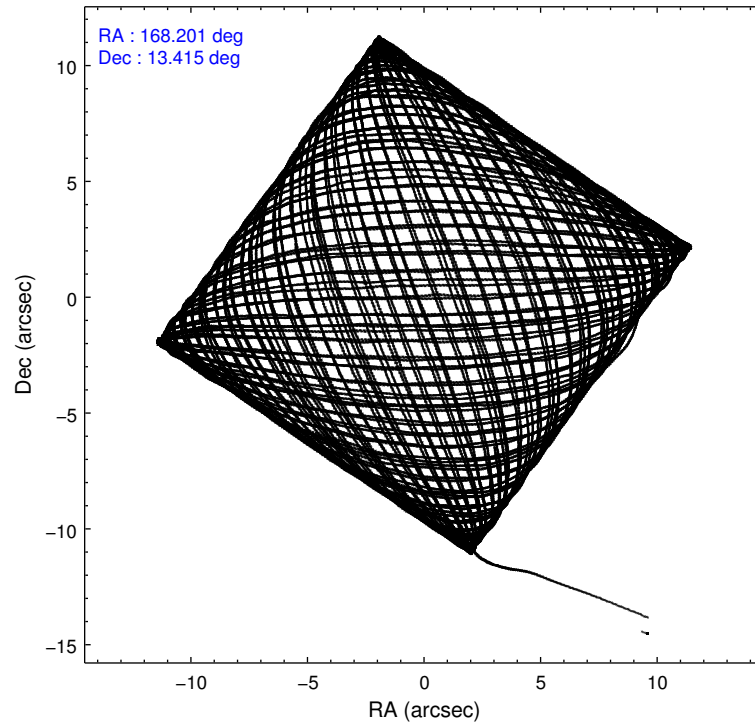
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	352131	363754	398964	394851	382879
rejected events	313442	314374	360132	340659	344585
rejected %	89%	86%	90%	86%	89%

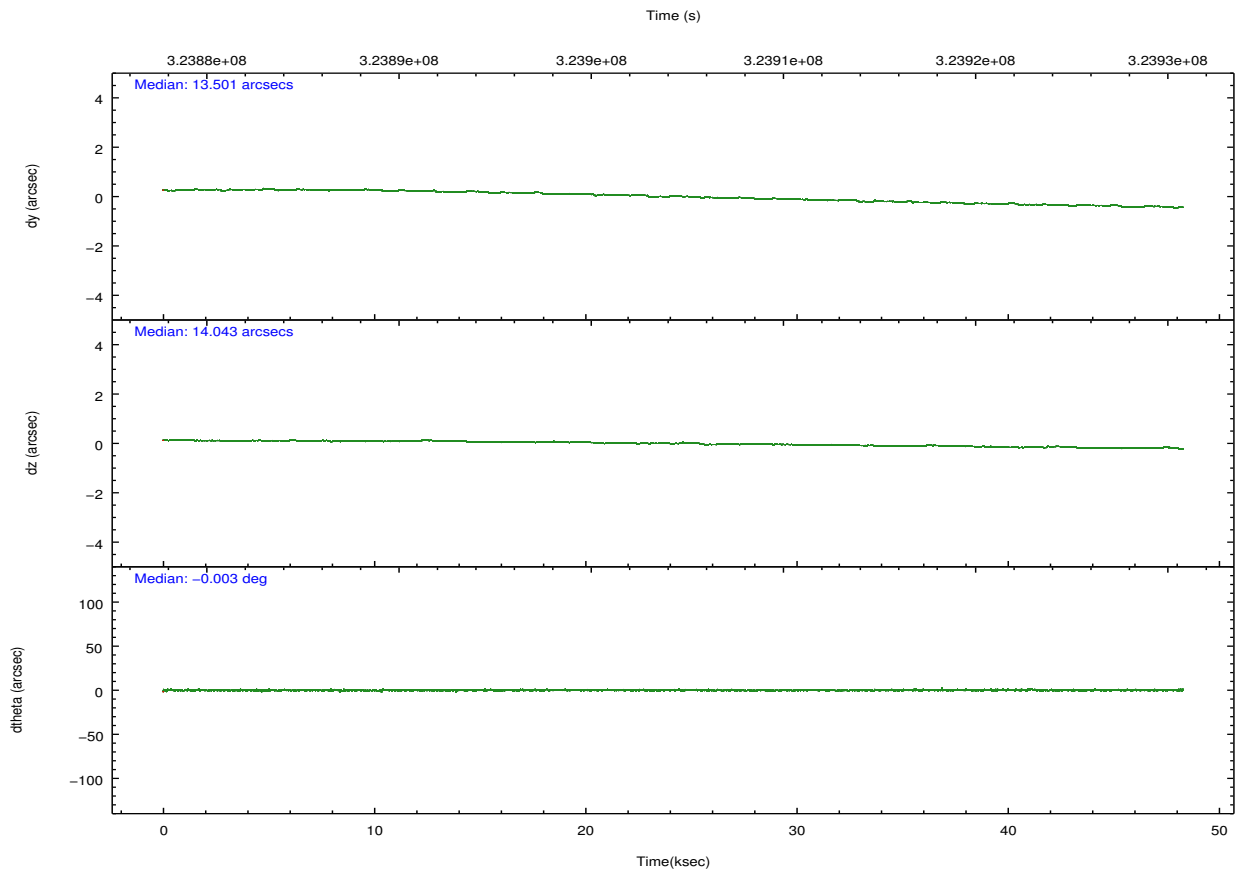
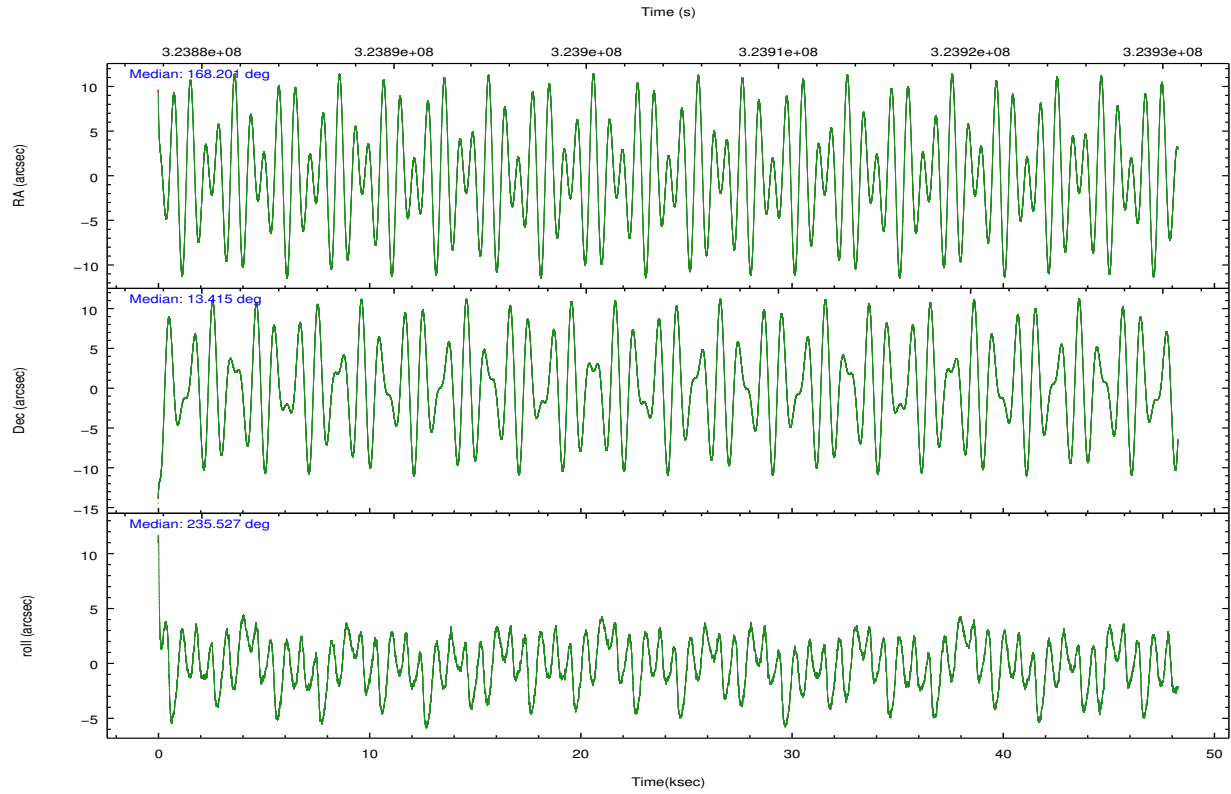
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	14031	21091	14751	28083	13172
	3%	5%	3%	7%	3%
grade 1 events	192	211	231	327	174
	0%	0%	0%	0%	0%
grade 2 events	9172	10265	8932	9580	8352
	2%	2%	2%	2%	2%
grade 3 events	4277	4744	4068	4567	4156
	1%	1%	1%	1%	1%
grade 4 events	4012	4619	4128	4427	4263
	1%	1%	1%	1%	1%
grade 5 events	13198	14386	12621	15249	14735
	3%	3%	3%	3%	3%
grade 6 events	7200	8664	6958	7539	8353
	2%	2%	1%	1%	2%
grade 7 events	300049	299774	347275	325079	329674
	85%	82%	87%	82%	86%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	168.203079	168.2009875716748	CCD I2 on	Y	Y
[deg] Pointing Dec	13.442506	13.41507307118547	CCD I3 on	Y	Y
[deg] Pointing Roll	235.321957	235.5311372368297	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	323880400.184000	323879264.82061	CCD S5 on	N	N
Observation start date	2008-04-06T14:45:35	2008-04-06T14:27:44	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	323928400.184000	323929320.69804	On-chip summing requested	N	N
Observation end date	2008-04-07T04:05:35	2008-04-07T04:22:00	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





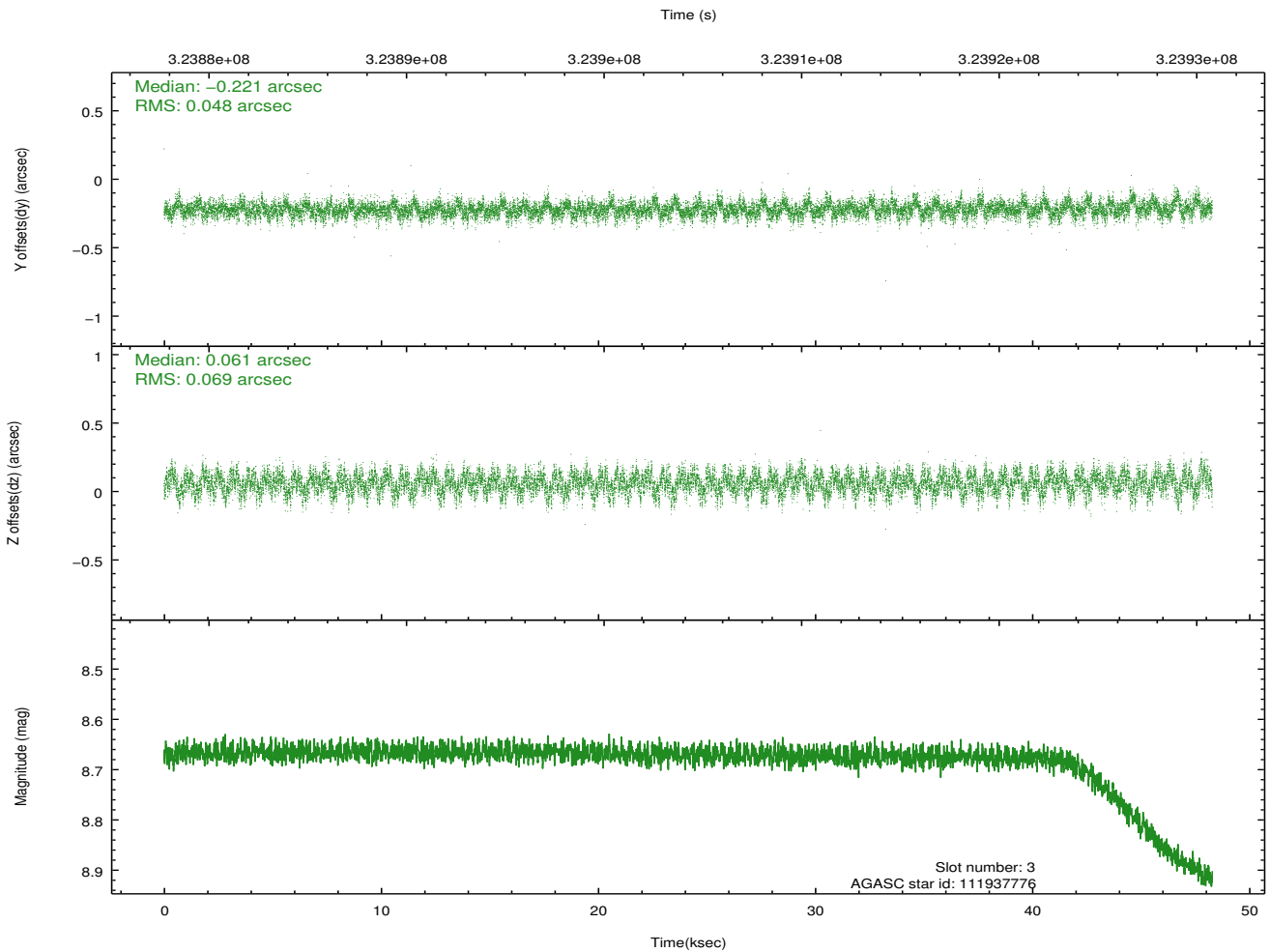
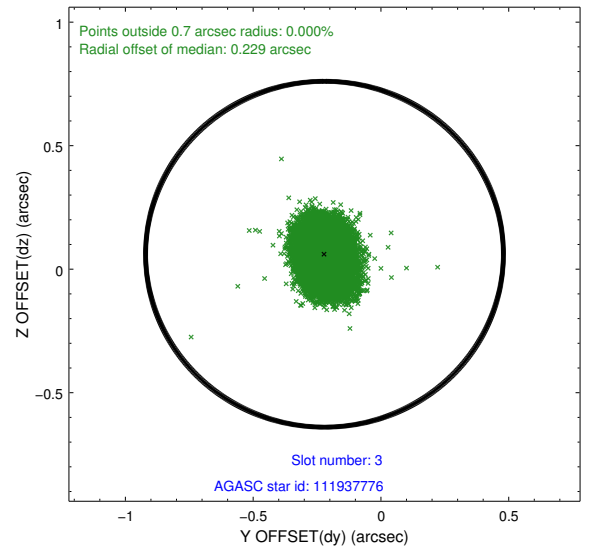
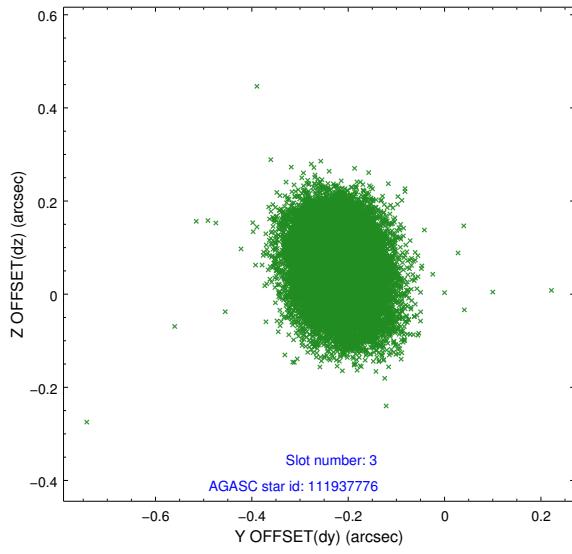
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	11777	0.032	0.013	0.007	0.013	0.000000	0.000000	926.06	-837.58
1	FID	ACIS-I-5	7.22	11776	-0.213	0.040	0.009	0.016	0.000000	0.000000	-1822.32	1059.91
2	FID	ACIS-I-6	7.24	11777	0.090	0.018	0.010	0.016	0.000000	0.000000	391.65	1704.40
3	GUIDE	111937776	8.67	23541	-0.221	0.061	0.088	0.146	168.023116	14.306189	-2199.49	-2284.97
4	GUIDE	111943664	9.24	23525	-0.140	0.143	0.086	0.143	168.455104	13.231647	121.55	1158.03
5	GUIDE	111944480	8.62	23539	0.085	0.172	0.074	0.118	167.667829	13.119228	2023.89	-882.53
6	GUIDE	111944848	7.84	23540	-0.034	-0.184	0.064	0.100	168.075212	13.220782	911.72	85.48
7	GUIDE	111945272	8.31	23543	0.307	-0.193	0.068	0.112	167.422036	13.273538	2054.67	-1906.90

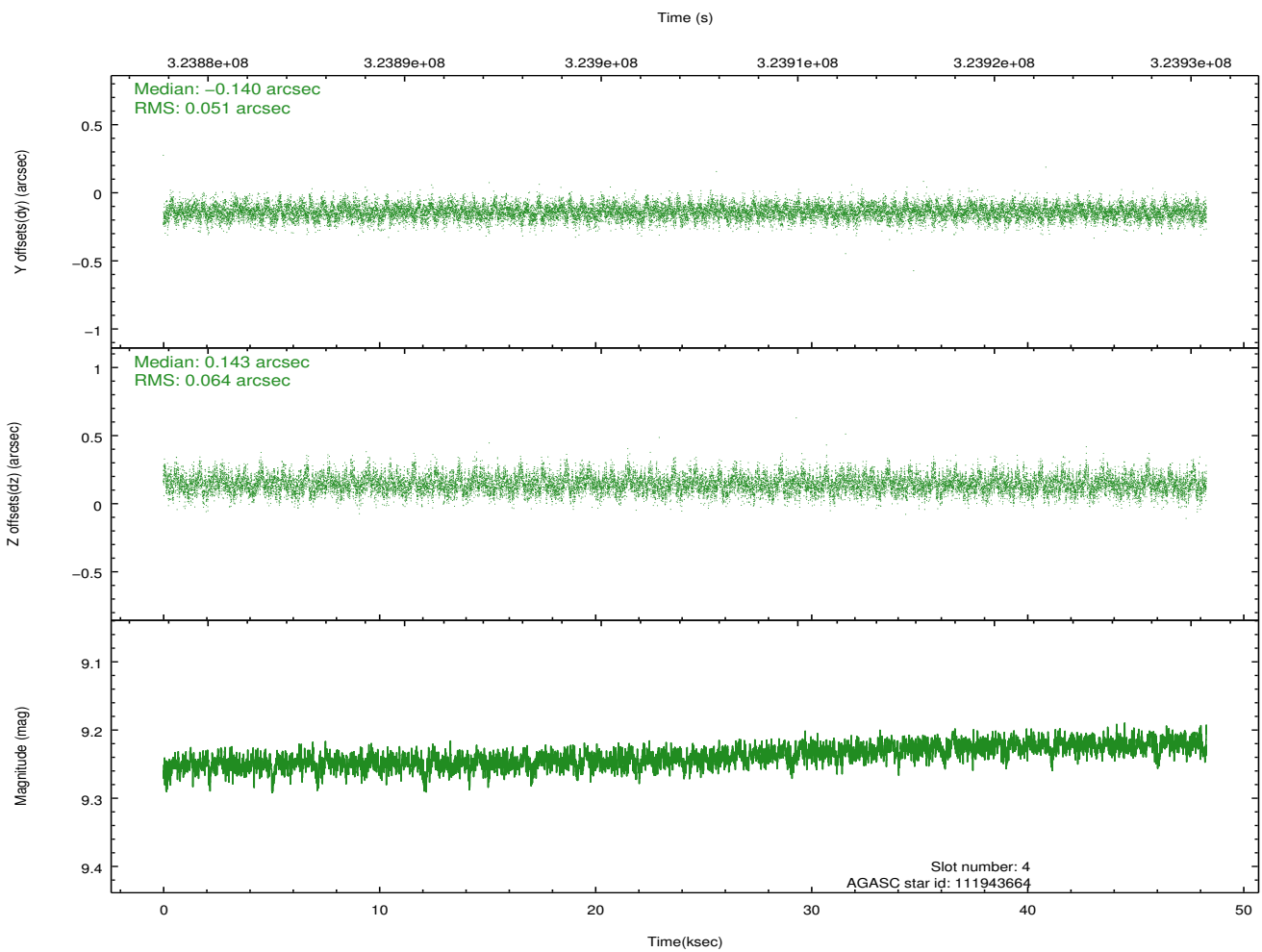
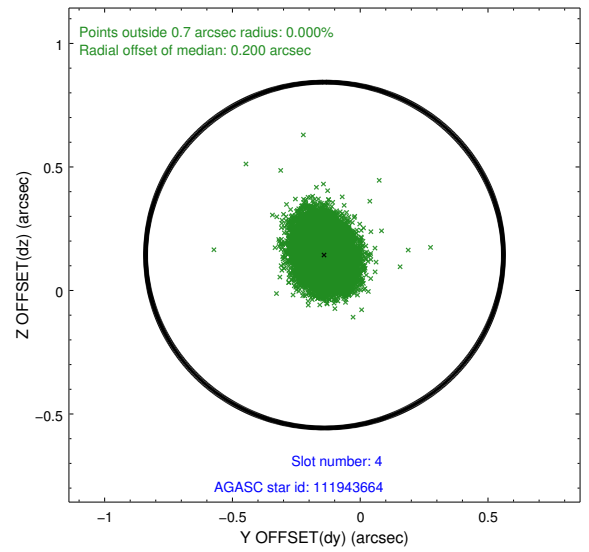
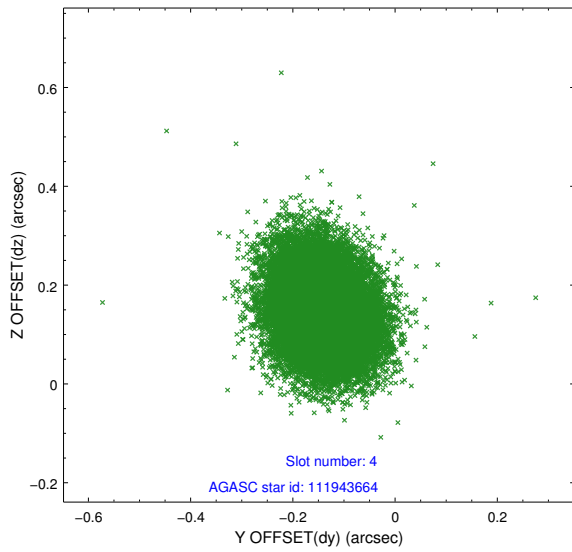
∞

## 2.4 Star Slots

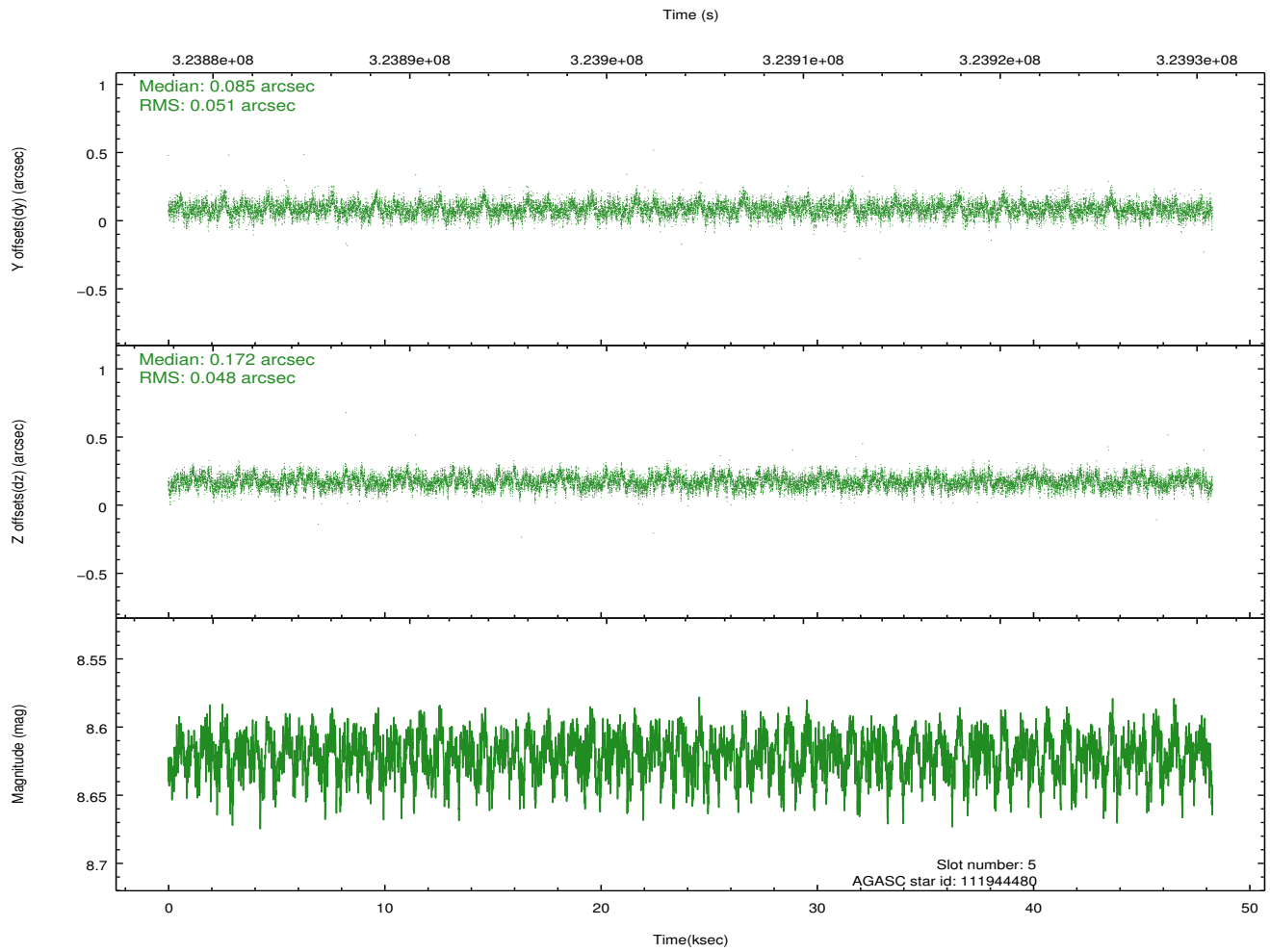
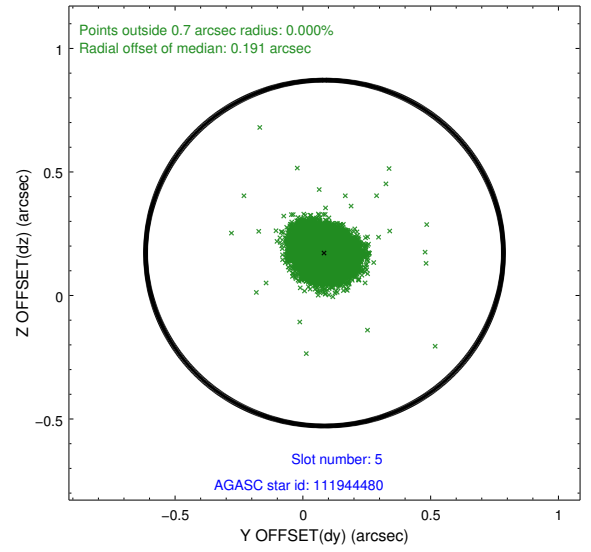
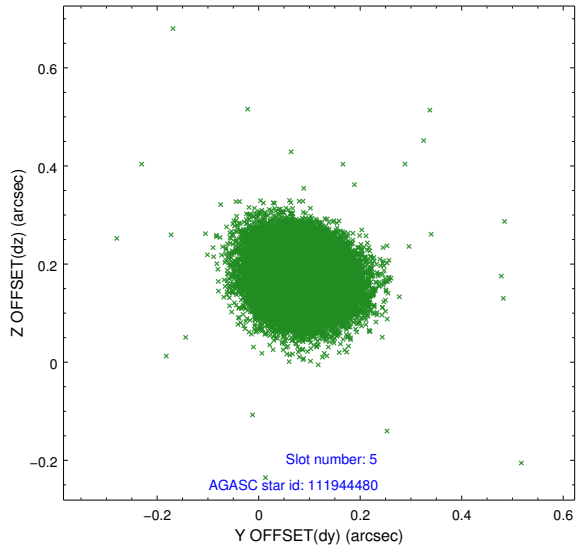
### 2.4.1 Slot 3



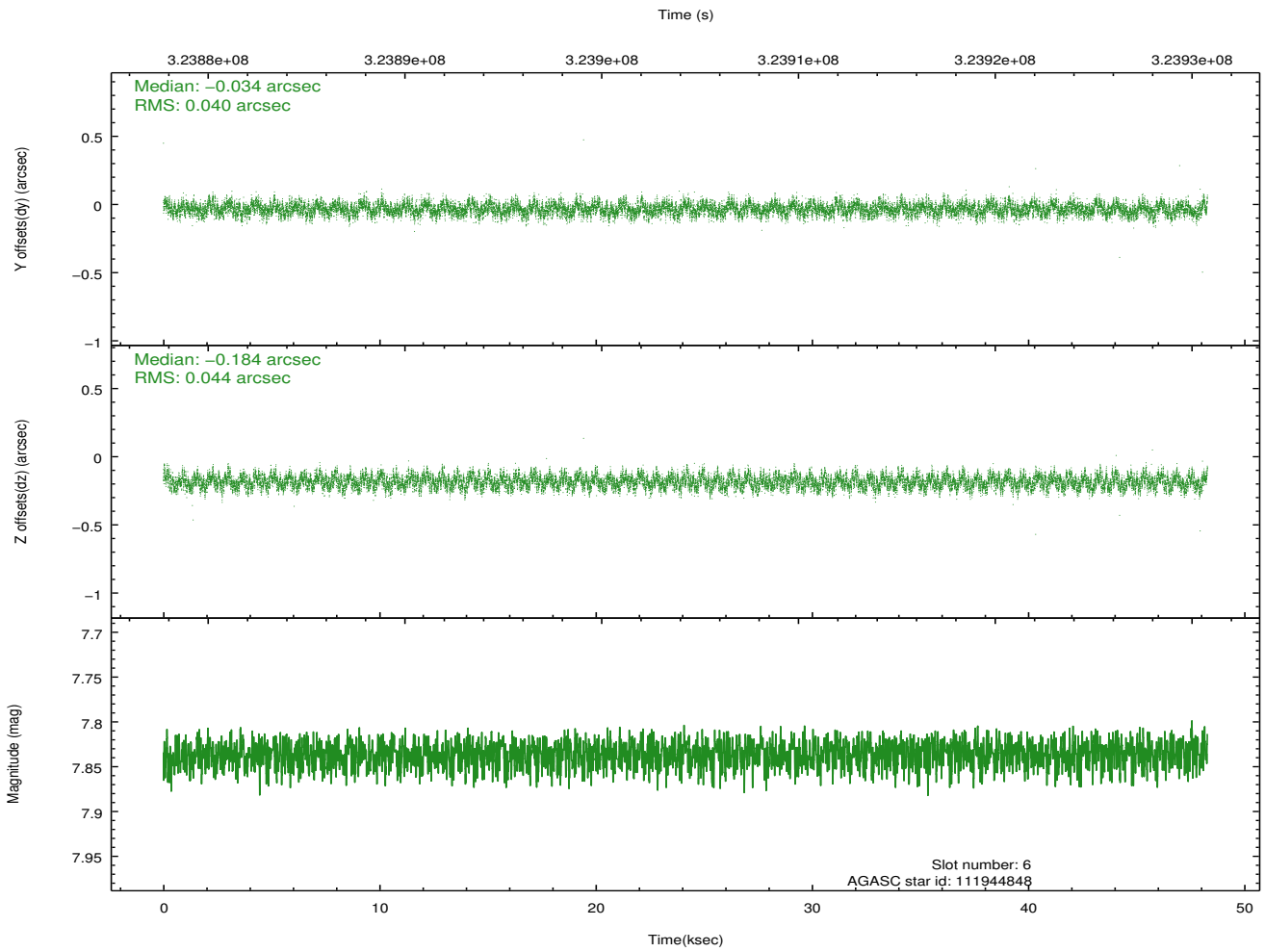
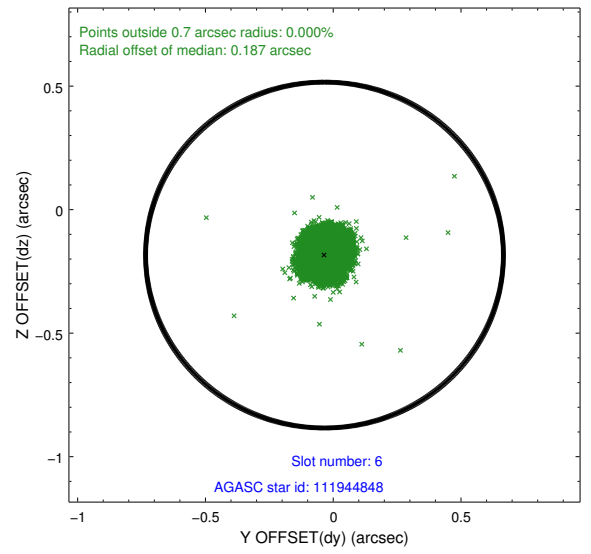
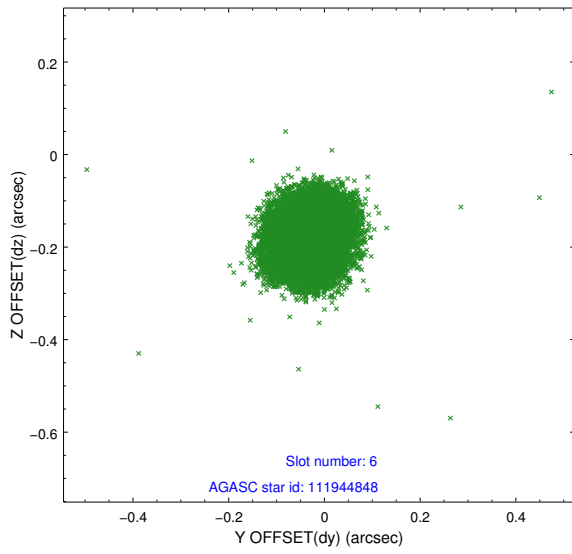
## 2.4.2 Slot 4



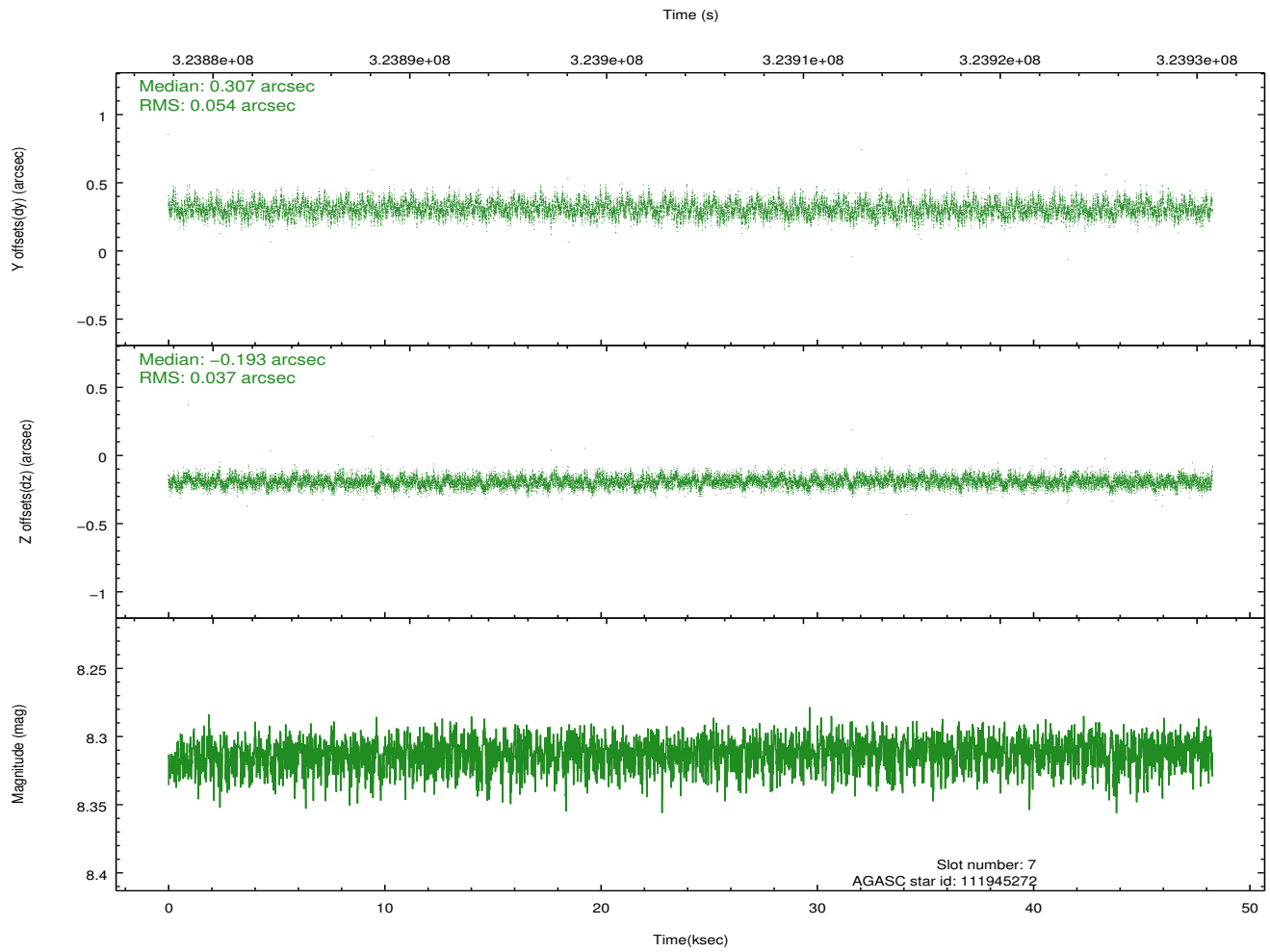
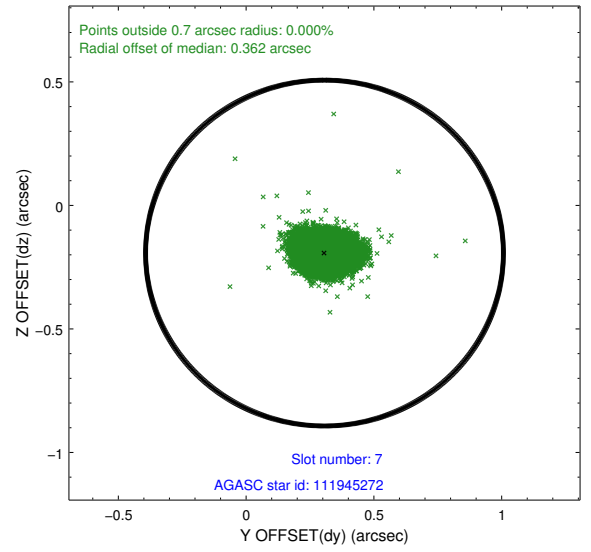
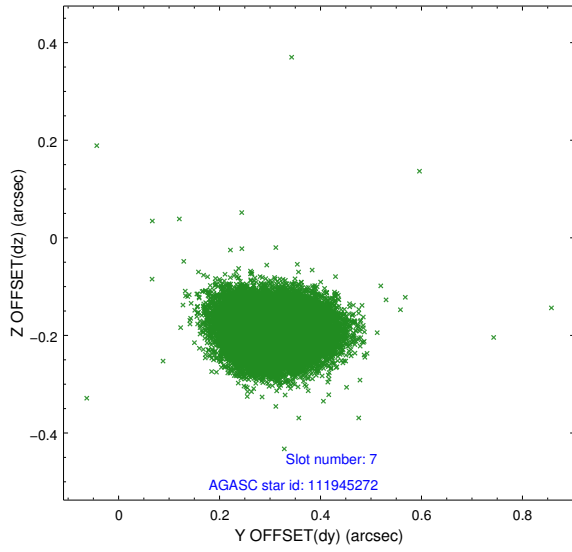
### 2.4.3 Slot 5



### 2.4.4 Slot 6

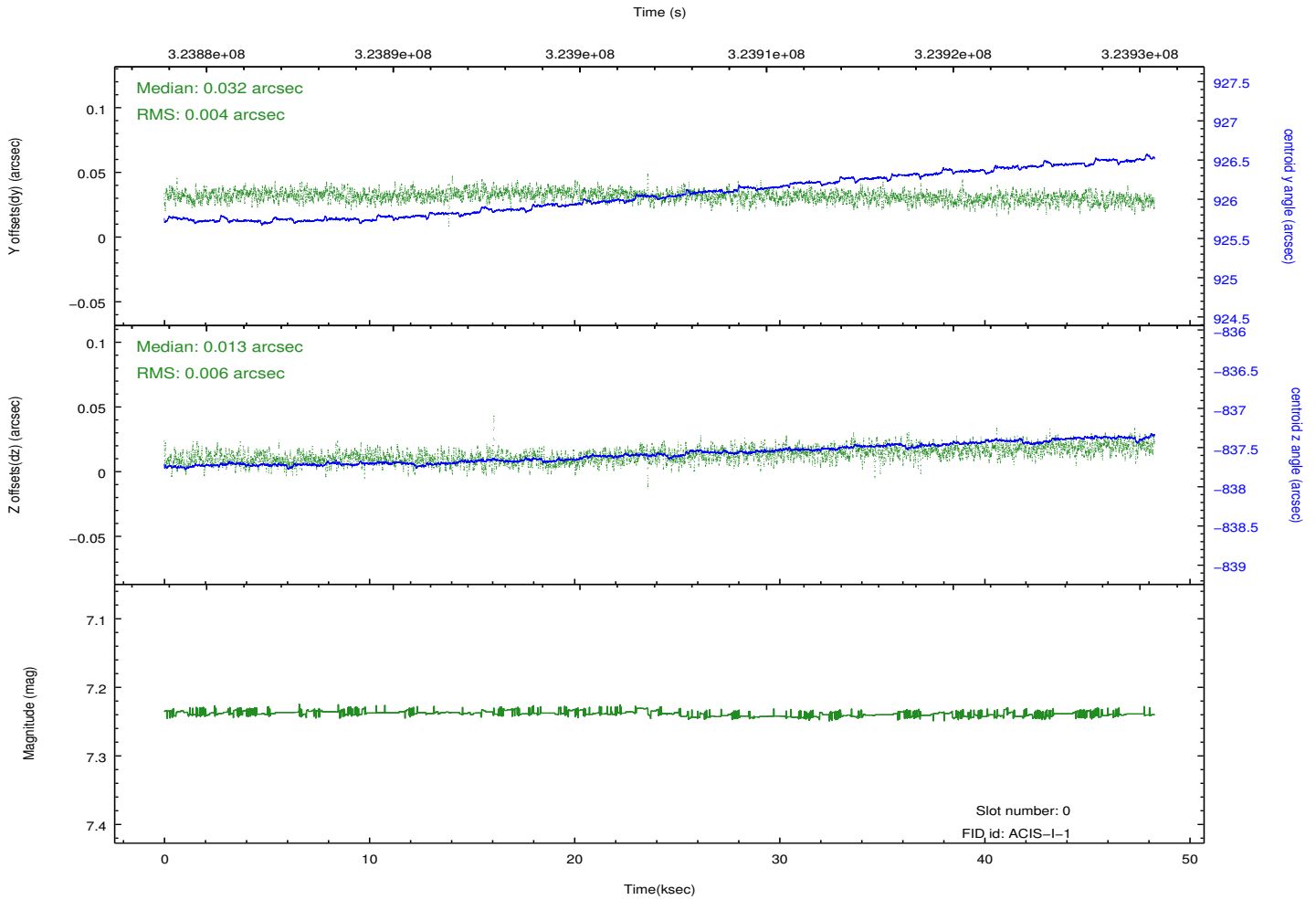
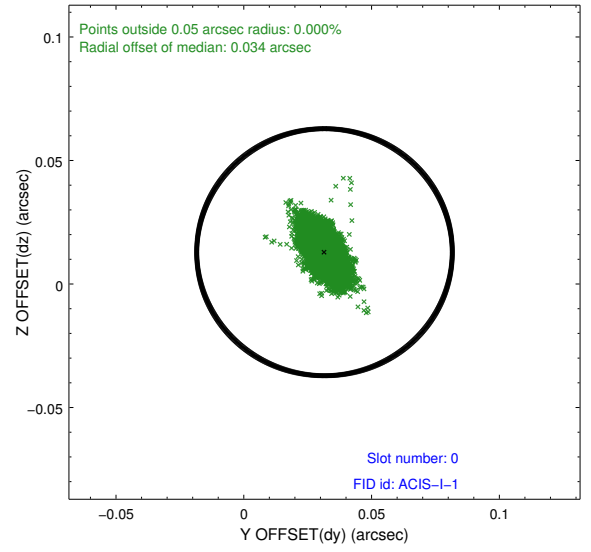
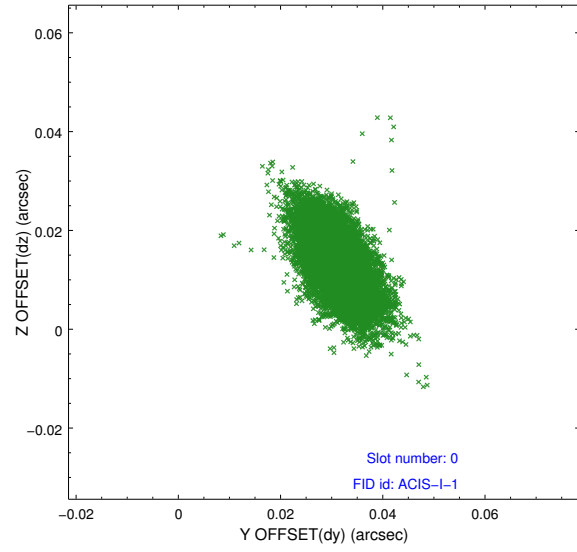


### 2.4.5 Slot 7

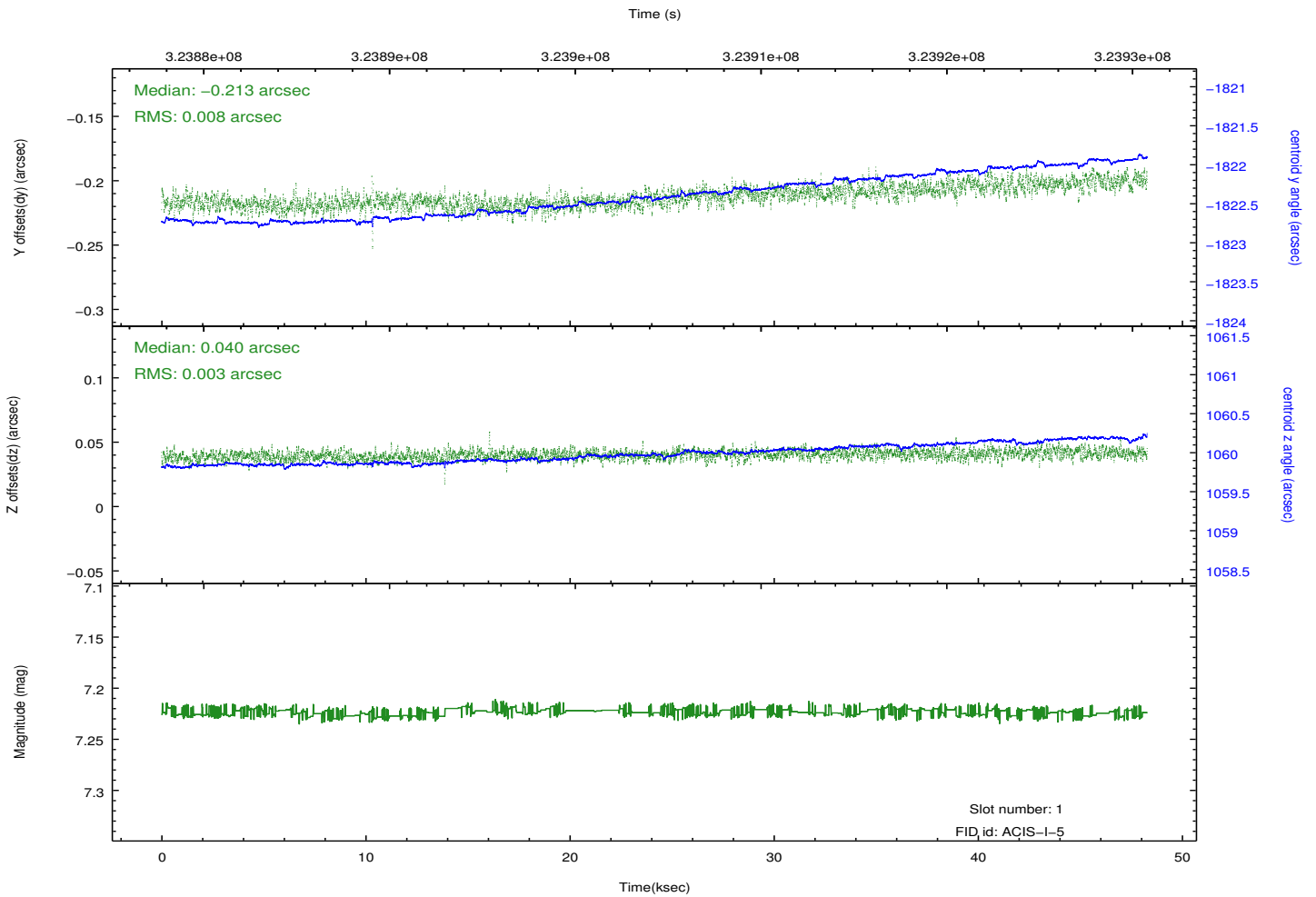
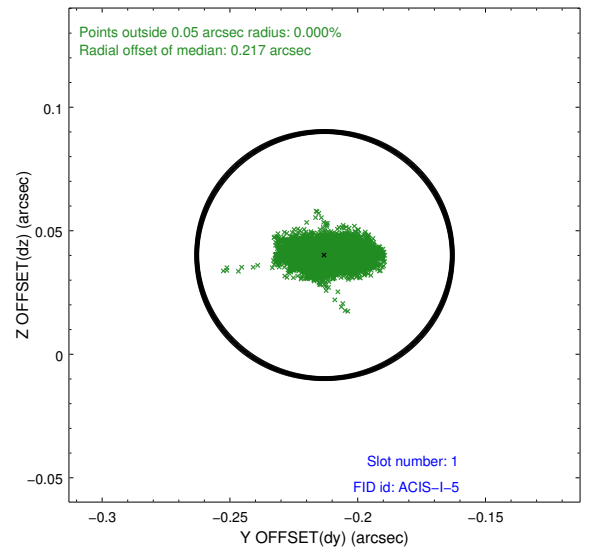
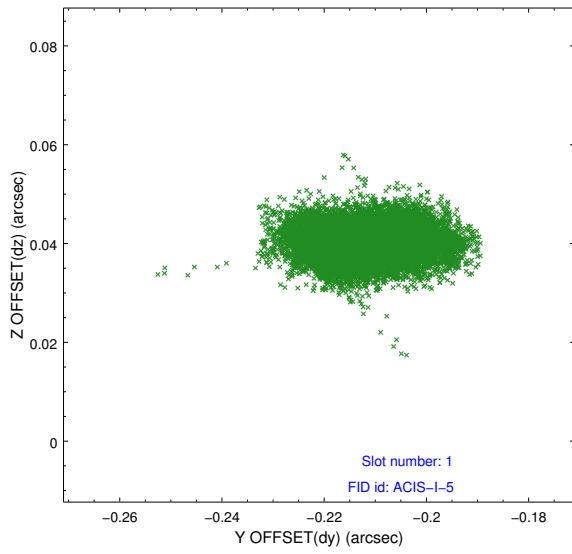


## 2.5 FID Slots

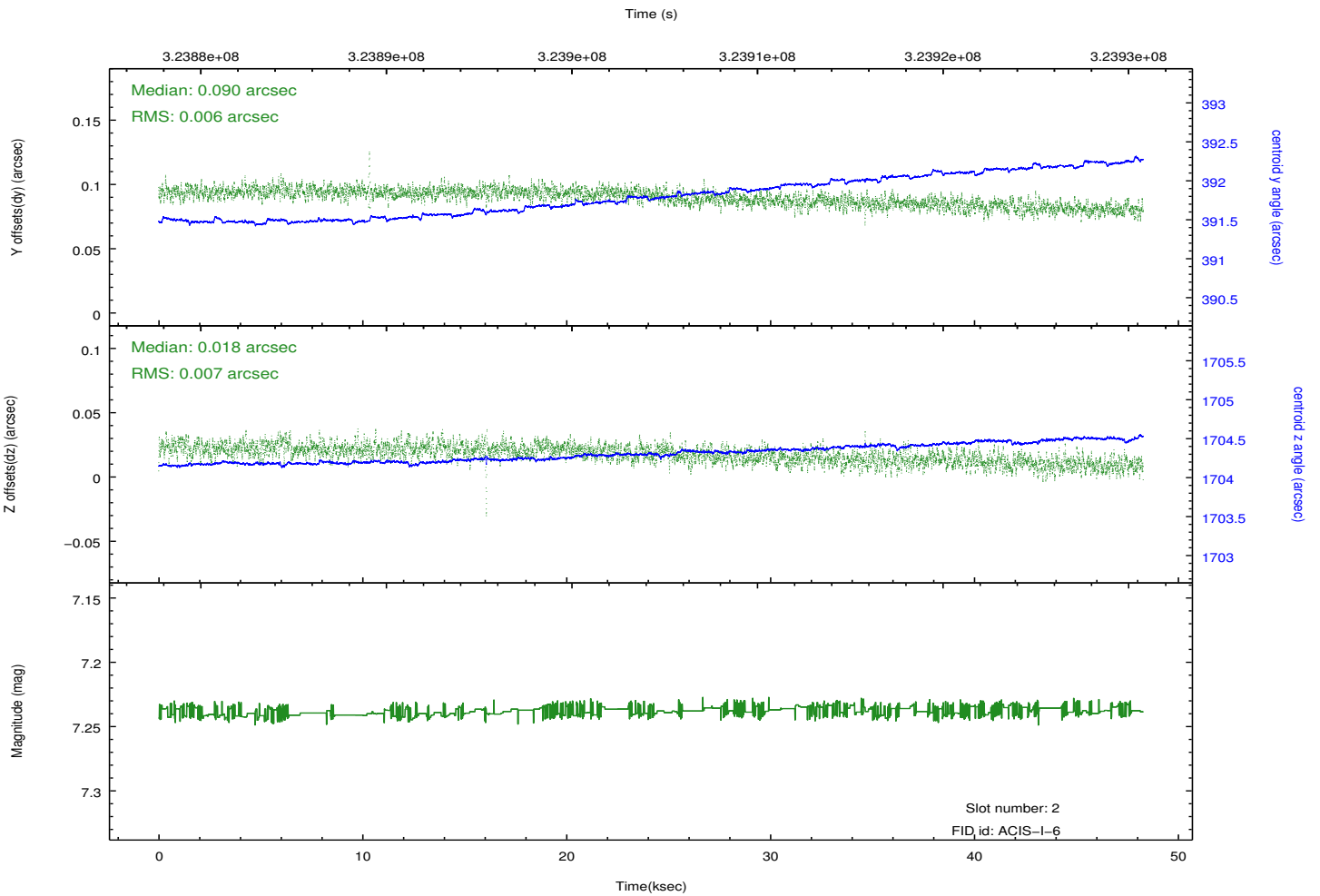
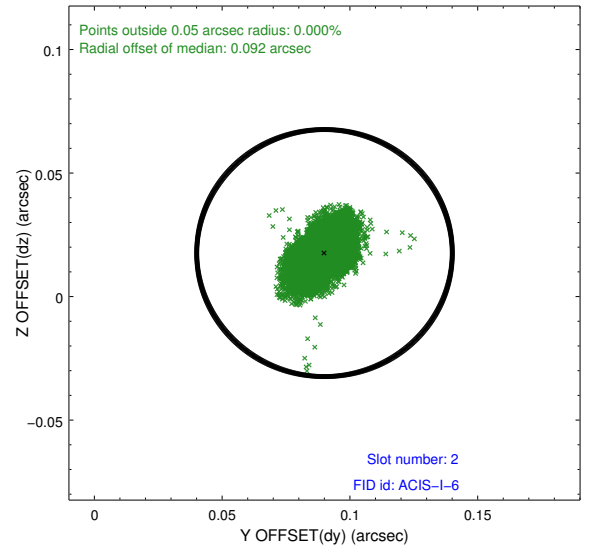
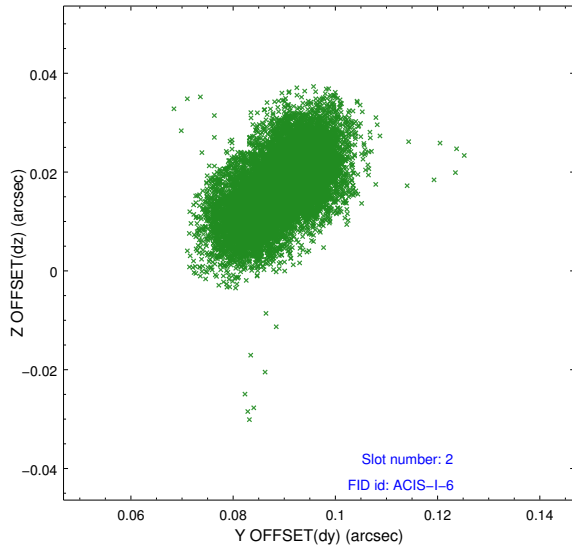
### 2.5.1 Slot 0



## 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)	2012.05.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	48.0375183

## A.2 Comments