

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 8483 - L2 Version 2  
Chandra X-Ray Center

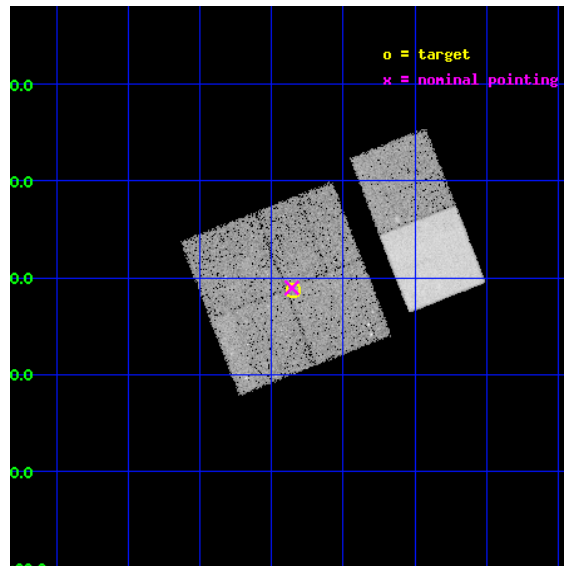
L2 Processing Date : Apr 14 2012

## 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

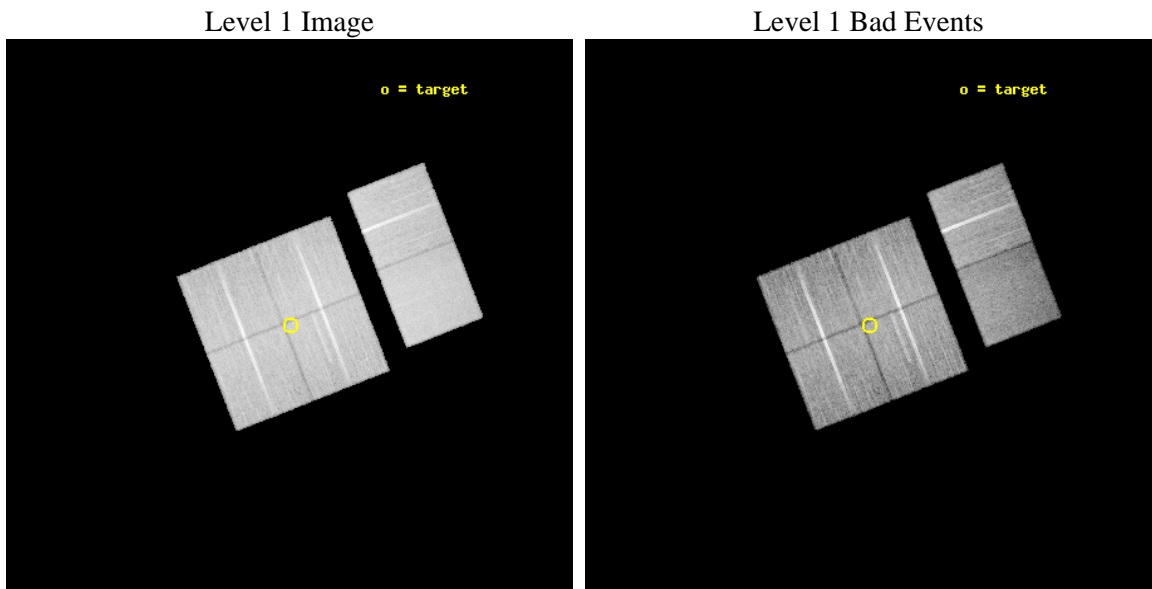
seq_num	900548	Sequence number
obs_id	8483	Observation id
title	THE CHANDRA-COSMOS SURVEY	Proposal title
observer	Dr. Martin Elvis	Principal investigator
object	C-COSMOS2-6	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	149.836508	Observer's specified target RA [deg]
dec_targ	2.479344	Observer's specified target Dec [deg]
ra_nom	149.83974848265	Nominal RA [deg]
dec_nom	2.4827004319964	Nominal Dec [deg]
roll_nom	68.608562441003	Nominal Roll [deg]
revision	2	Processing version of data
ontime	22041.599917948	Sum of GTIs [s]
livetime	21762.495907929	Livetime [s]
ontime0	22041.599917948	Sum of GTIs [s]
ontime1	22038.35900718	Sum of GTIs [s]
ontime2	22041.599917948	Sum of GTIs [s]
ontime3	22041.599917948	Sum of GTIs [s]
ontime6	22041.599917948	Sum of GTIs [s]
ontime7	22041.599917948	Sum of GTIs [s]
l2events	153560	Number of level 2 events



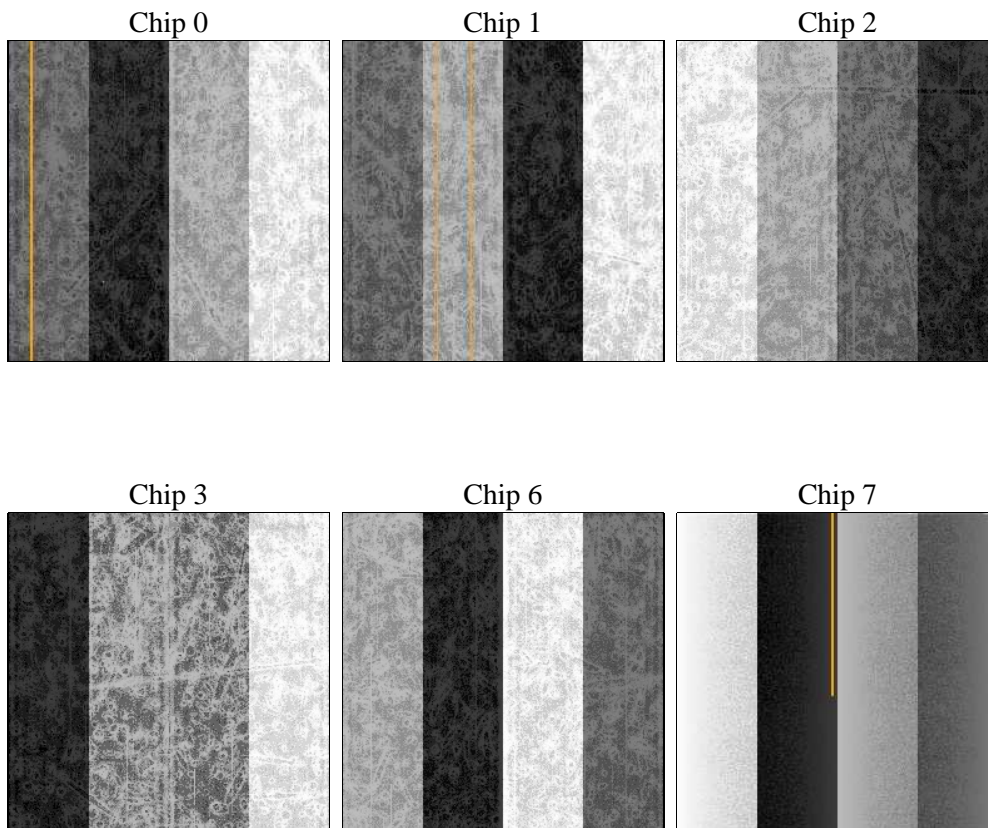
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	22000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	22041.599917948	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	22041.599917948	Sum of GTIs [s]
date	2012-04-14T17:38:02	Date and time of file creation	ontime1	22038.35900718	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	22041.599917948	Sum of GTIs [s]
			ontime3	22041.599917948	Sum of GTIs [s]
			ontime6	22041.599917948	Sum of GTIs [s]
			ontime7	22041.599917948	Sum of GTIs [s]
			l1events	1031236	Number of level 1 events

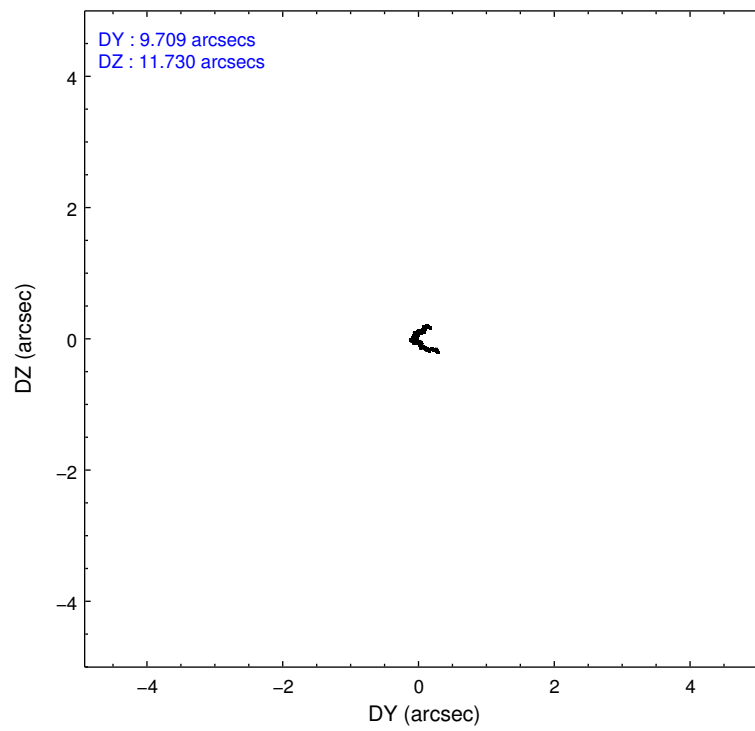
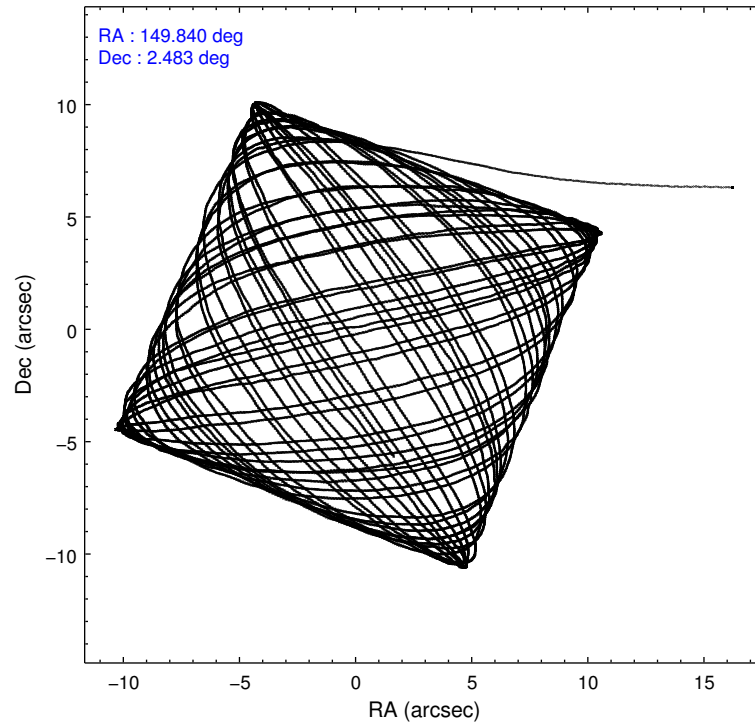
### 2.1.4 Events

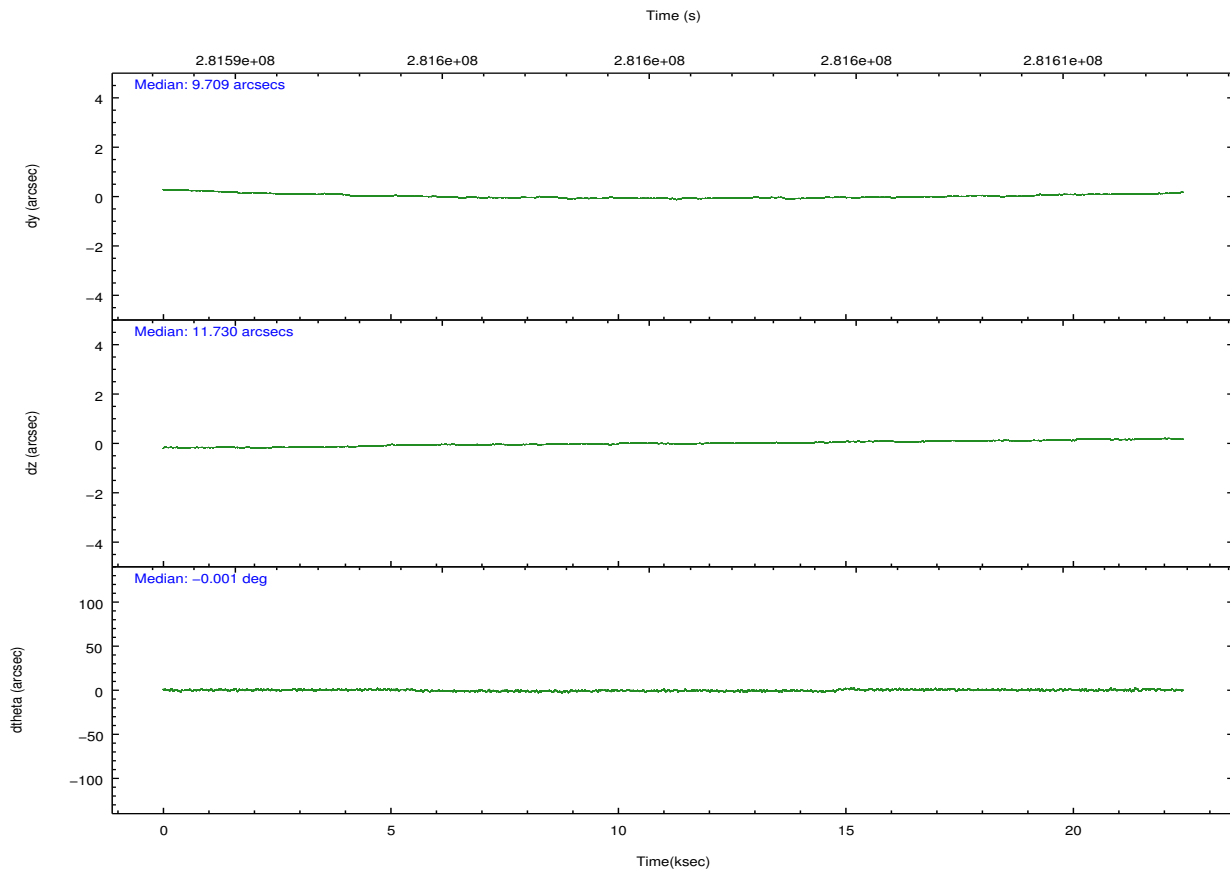
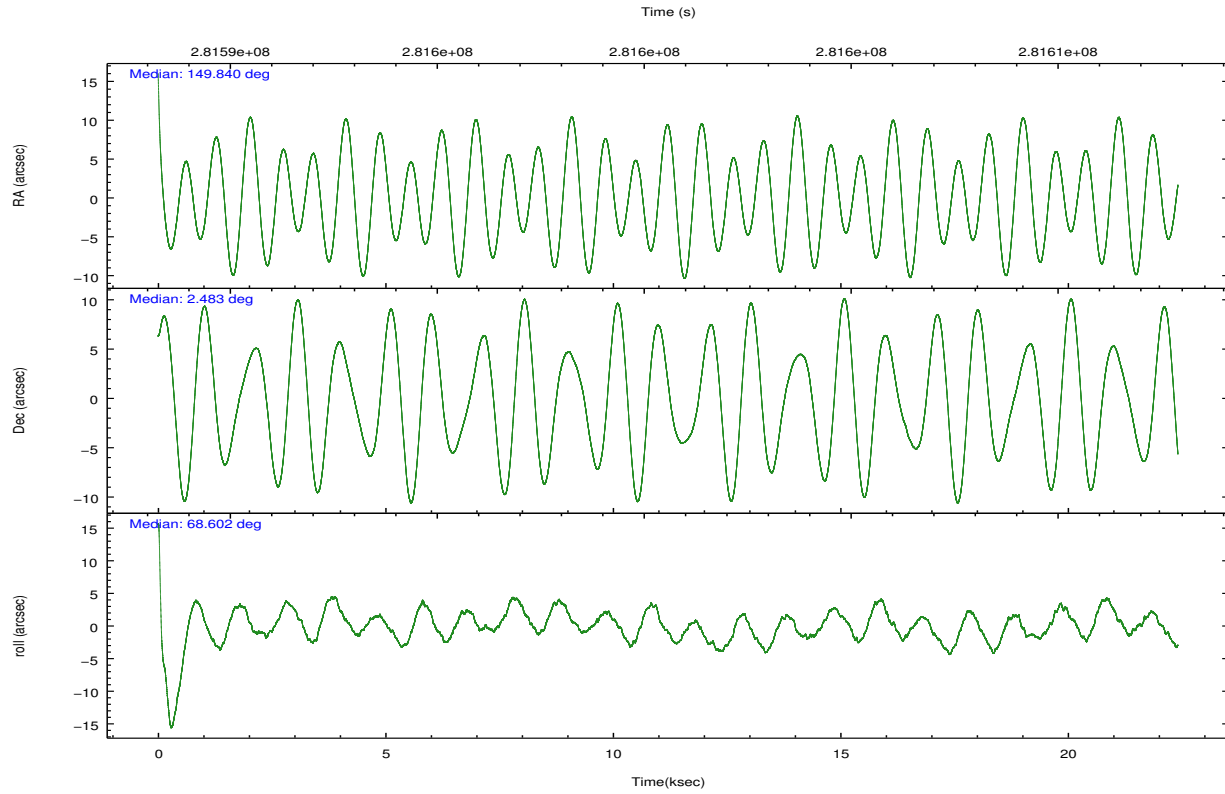
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	158164	157990	180561	168257	177430	188834	grade 0 events	5867	6949	5797	5586	6057	7849
rejected events	141461	139046	164626	152342	159793	103396		3%	4%	3%	3%	3%	4%
rejected %	89%	88%	91%	90%	90%	54%	grade 1 events	79	75	95	95	94	218
								0%	0%	0%	0%	0%	0%
							grade 2 events	4001	4191	3692	3465	3926	17031
								2%	2%	2%	2%	2%	9%
							grade 3 events	1874	2016	1684	1895	1971	7909
								1%	1%	0%	1%	1%	4%
							grade 4 events	1784	1969	1821	1817	1828	7841
								1%	1%	1%	1%	1%	4%
							grade 5 events	5587	6342	5400	6668	6920	20049
								3%	4%	2%	3%	3%	10%
							grade 6 events	3183	3825	2947	3154	3862	44836
								2%	2%	1%	1%	2%	23%
							grade 7 events	135789	132623	159125	145577	152772	83101
								85%	83%	88%	86%	86%	44%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	149.843961	149.8397484826531	CCD I2 on	Y	Y
[deg] Pointing Dec	2.455606	2.482700431996433	CCD I3 on	Y	Y
[deg] Pointing Roll	68.399676	68.6085624410029	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	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	281589784.184000	281588589.45363	CCD S5 on	N	N
Observation start date	2006-12-04T03:21:59	2006-12-04T03:03:09	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	281611784.184000	281612476.05476	On-chip summing requested	N	N
Observation end date	2006-12-04T09:28:39	2006-12-04T09:41:16	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



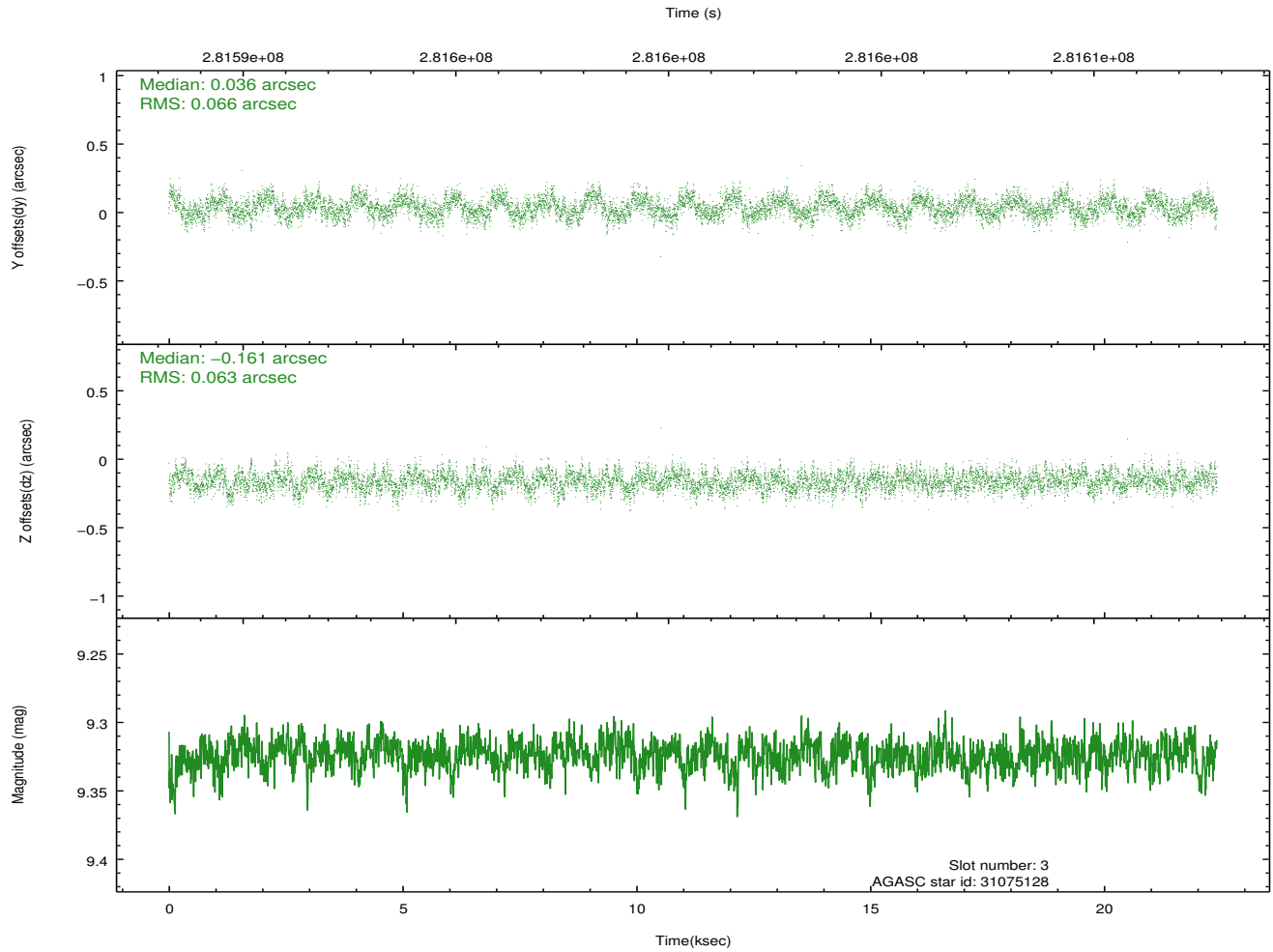
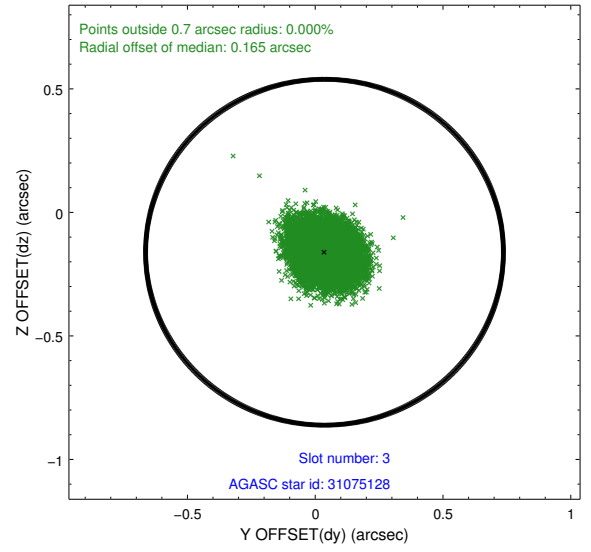
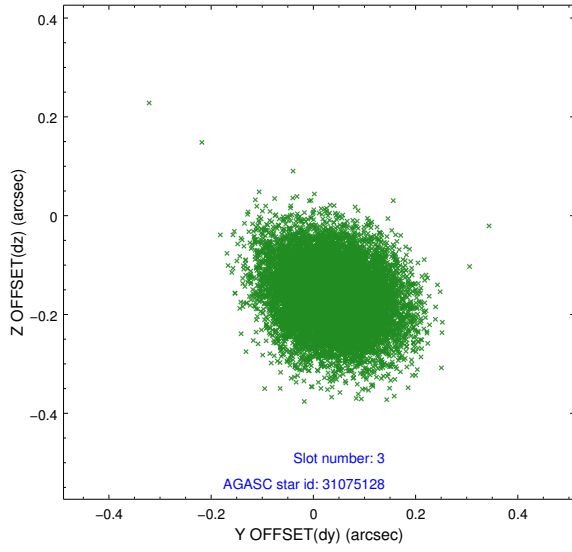


### Slot Statistics

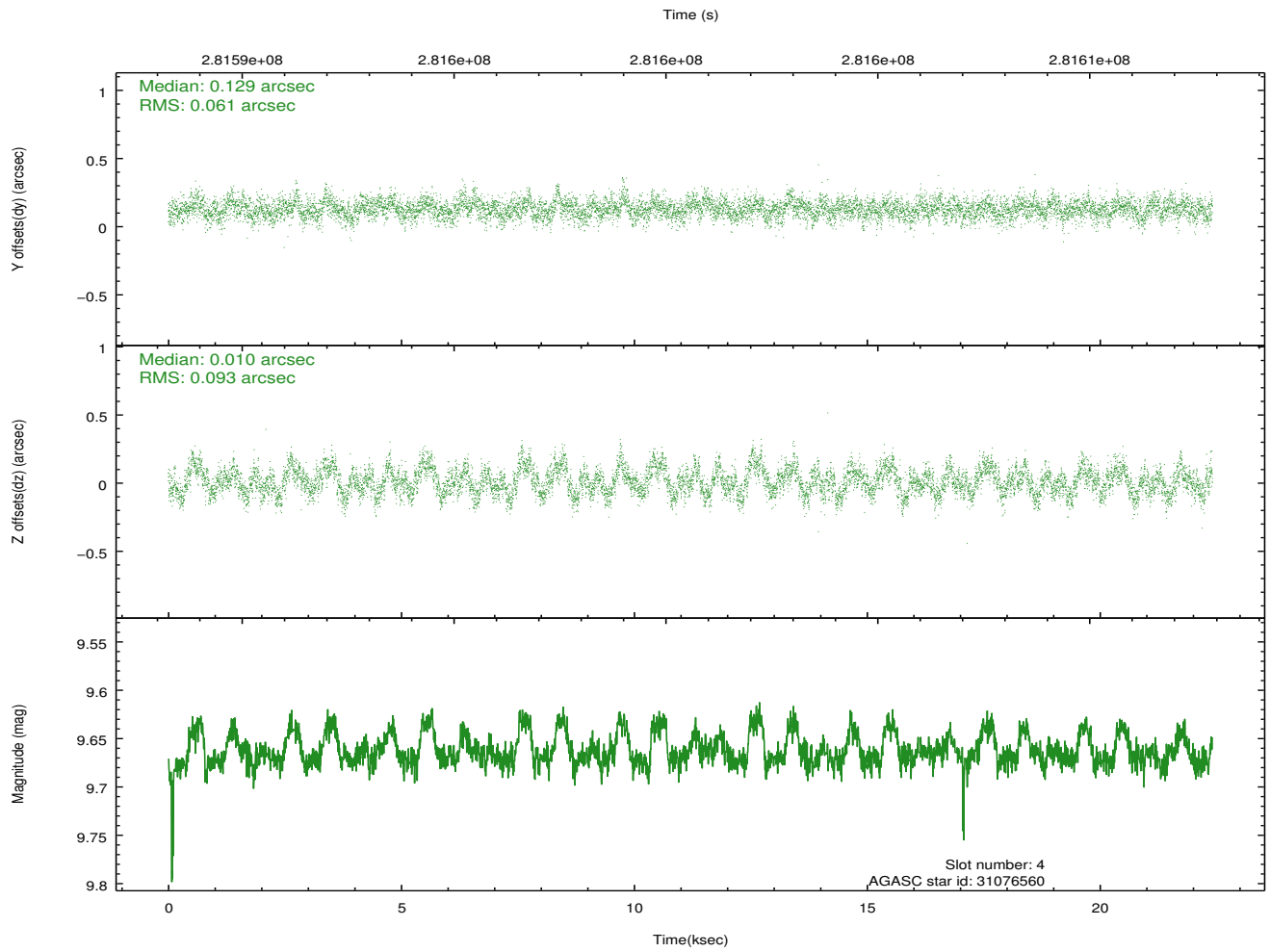
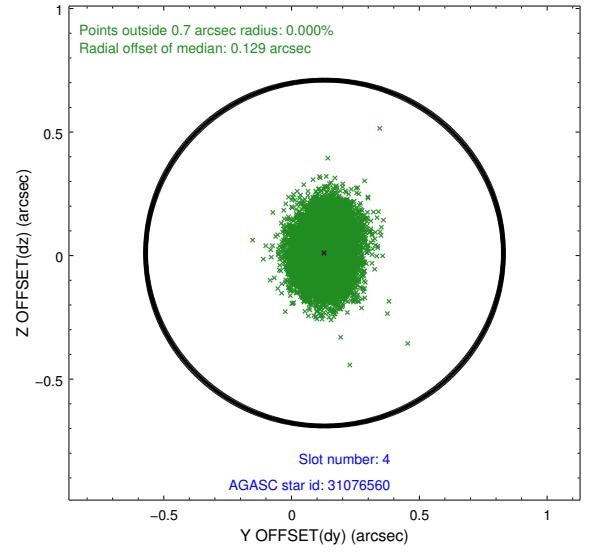
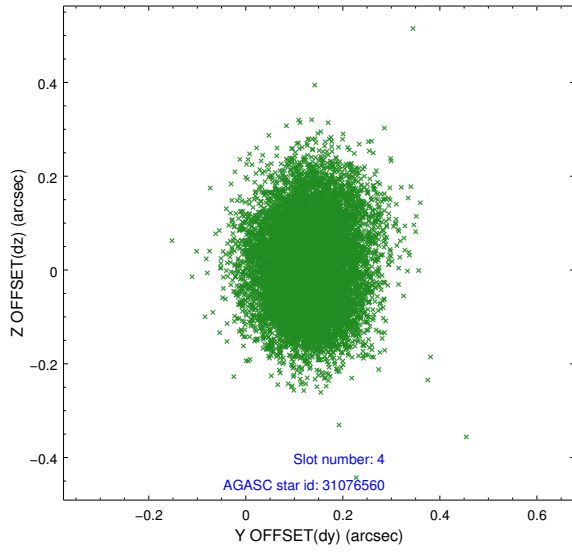
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	5466	-0.105	-0.108	0.019	0.035	0.000000	0.000000	-764.42	-841.71
1	FID	ACIS-I-4	7.19	5466	0.220	0.092	0.011	0.018	0.000000	0.000000	2149.93	1064.54
2	FID	ACIS-I-5	7.22	5467	-0.216	0.087	0.014	0.023	0.000000	0.000000	-1818.13	1062.63
3	GUIDE	31075128	9.32	10922	0.036	-0.161	0.098	0.157	149.584516	2.364347	-648.72	746.60
4	GUIDE	31076560	9.66	10921	0.129	0.010	0.119	0.191	149.884782	2.009277	-1439.70	-728.29
5	GUIDE	31463496	9.46	10866	-0.068	-0.158	0.099	0.162	149.845020	2.964001	1703.06	670.28
6	GUIDE	31983336	8.60	10930	0.030	0.217	0.076	0.122	150.429924	2.291234	226.87	-2177.06
7	GUIDE	32375384	9.97	10915	-0.132	0.091	0.128	0.208	150.238117	2.622063	1079.41	-1096.88

## 2.4 Star Slots

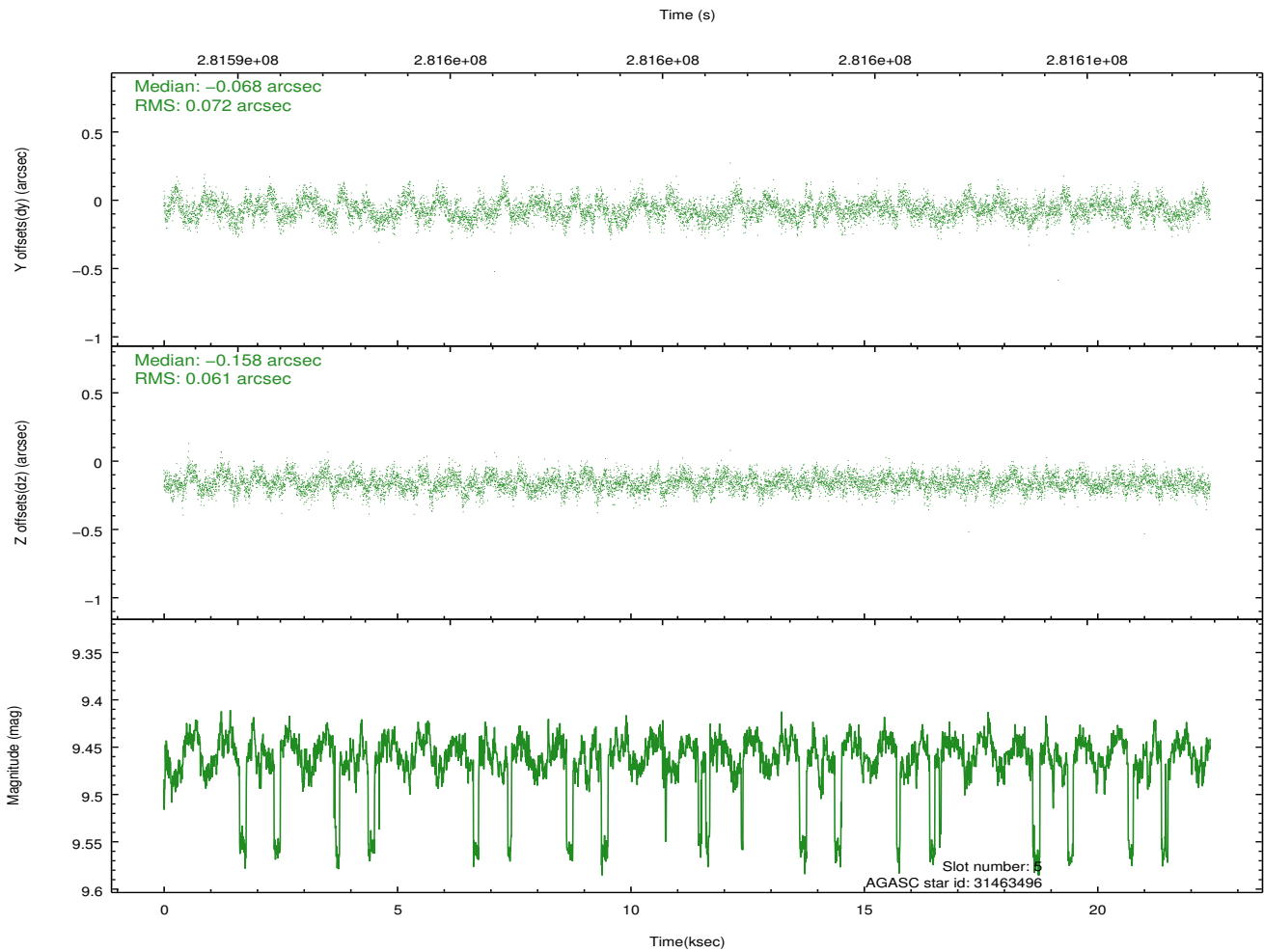
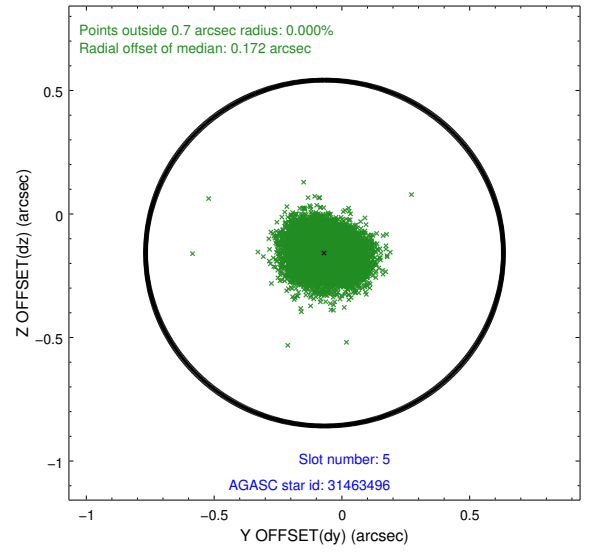
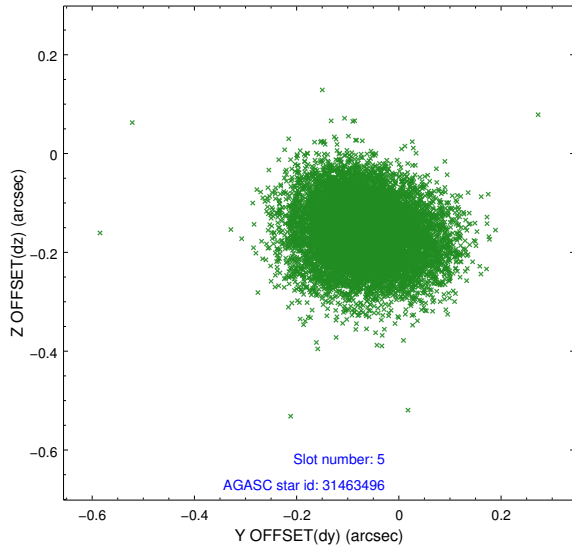
### 2.4.1 Slot 3



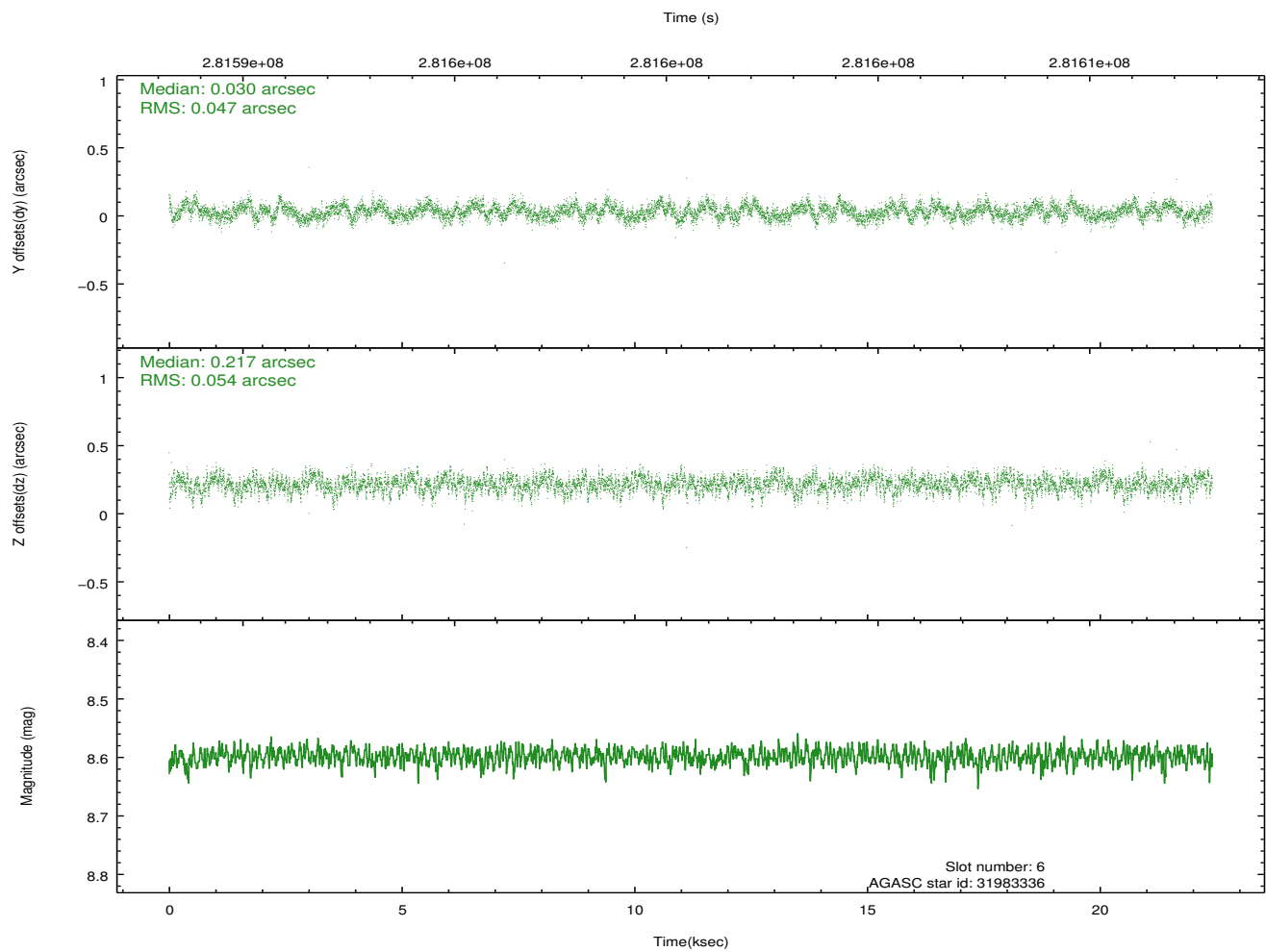
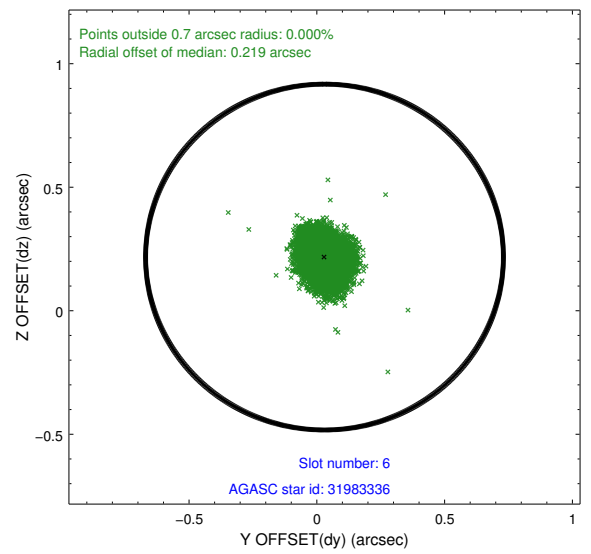
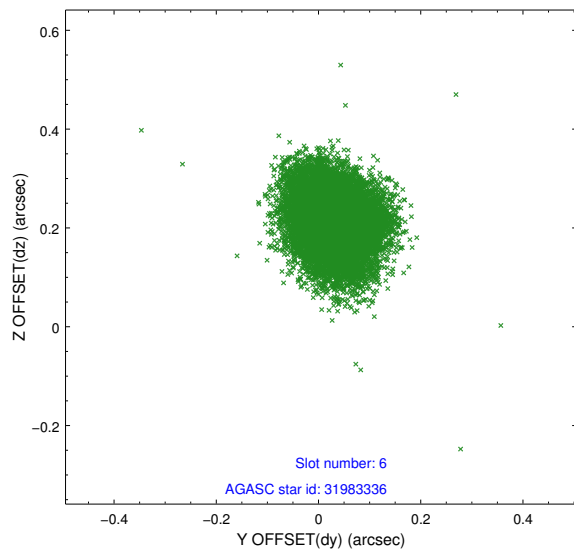
### 2.4.2 Slot 4



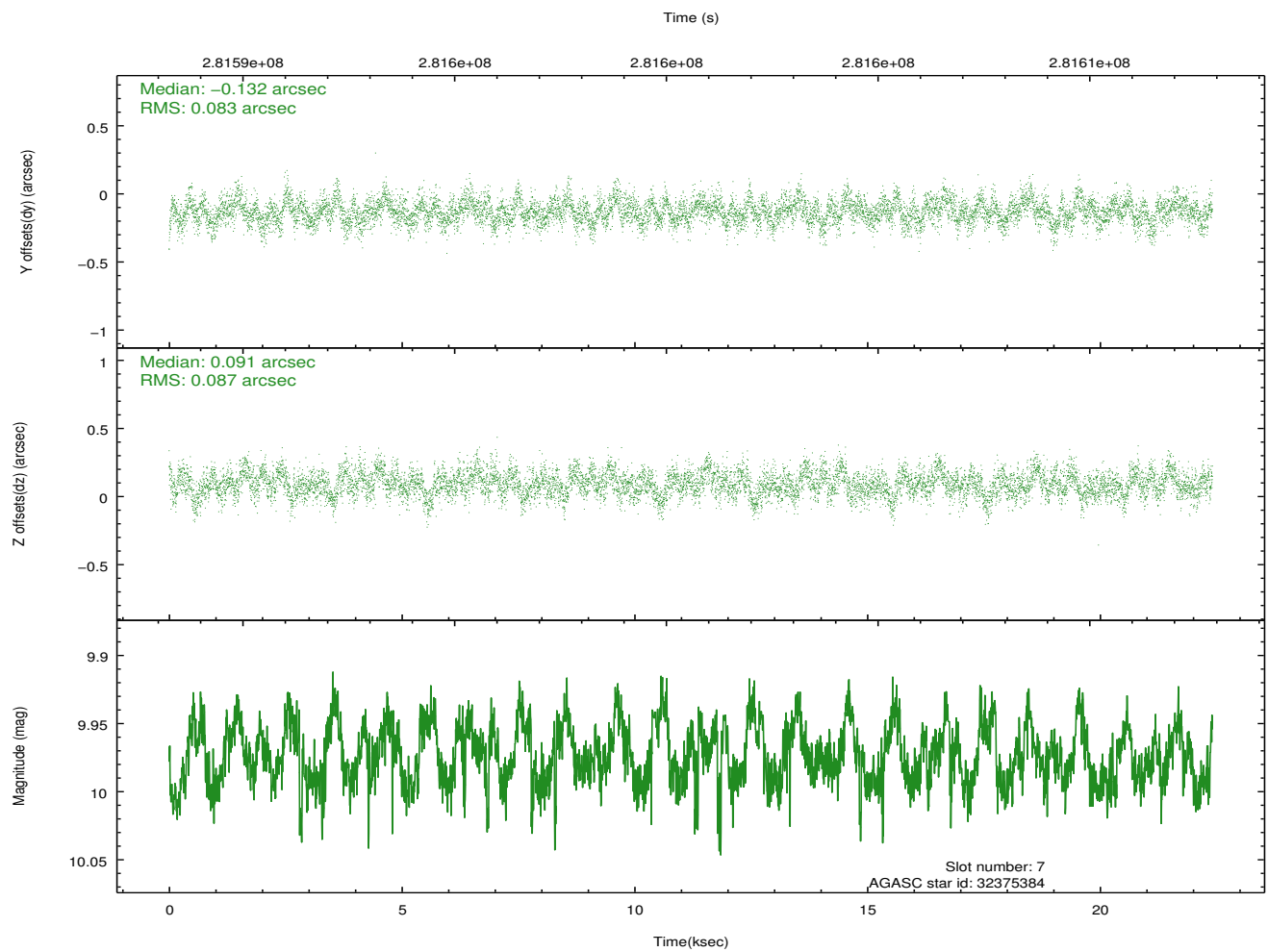
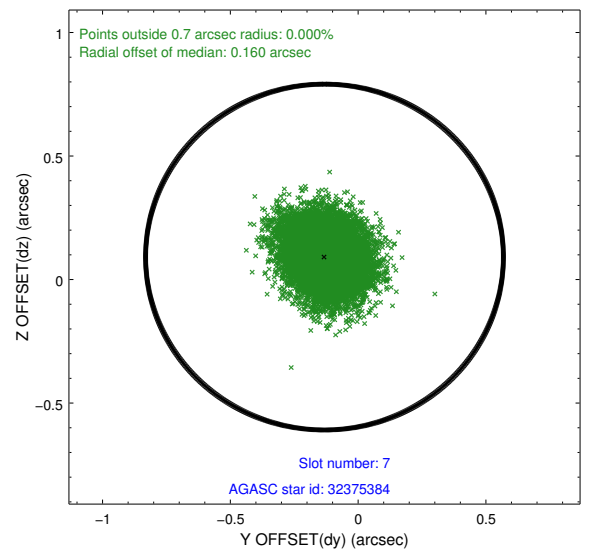
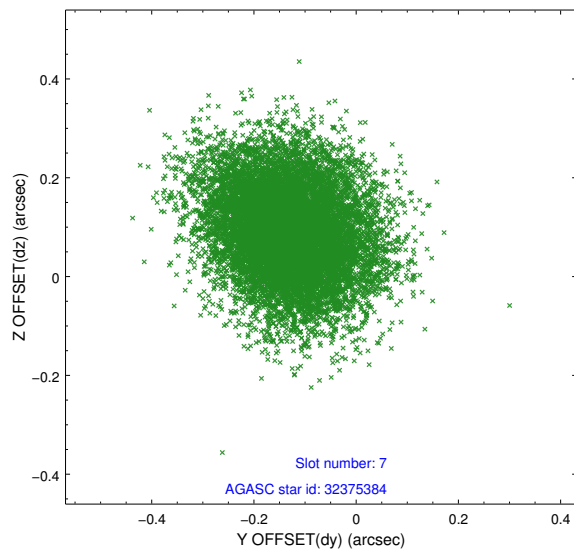
### 2.4.3 Slot 5



## 2.4.4 Slot 6

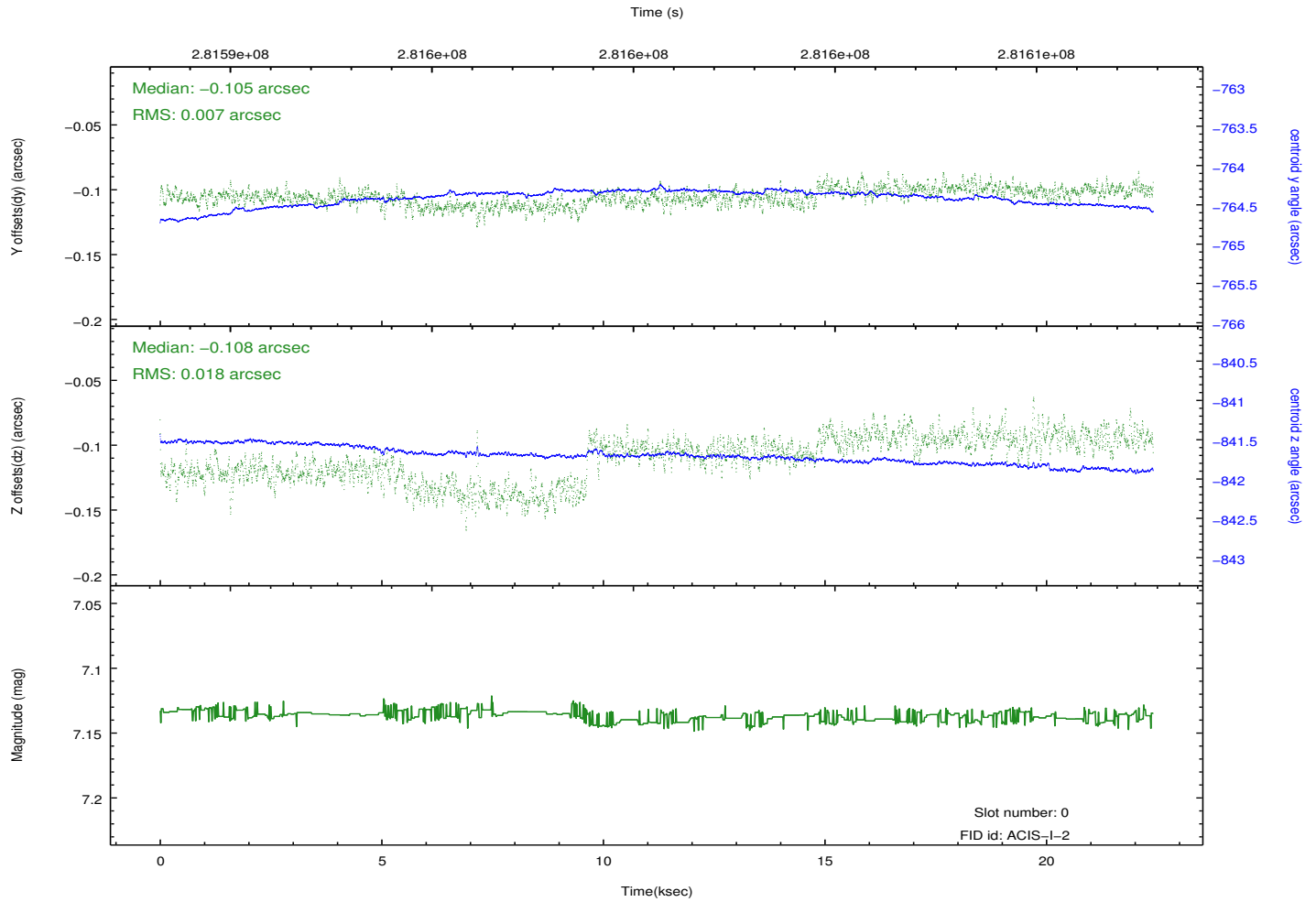
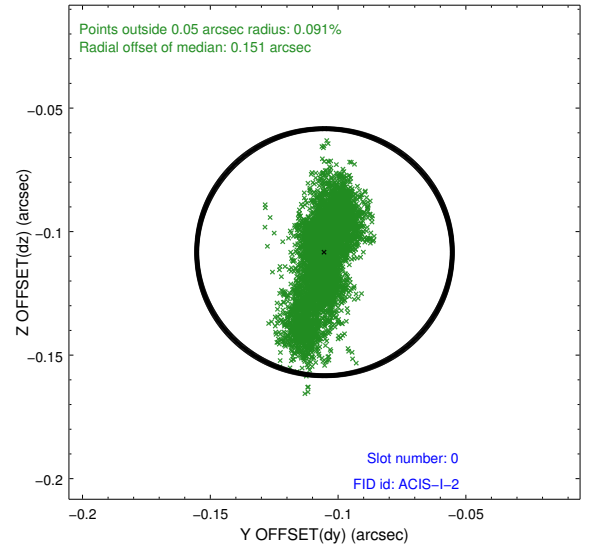
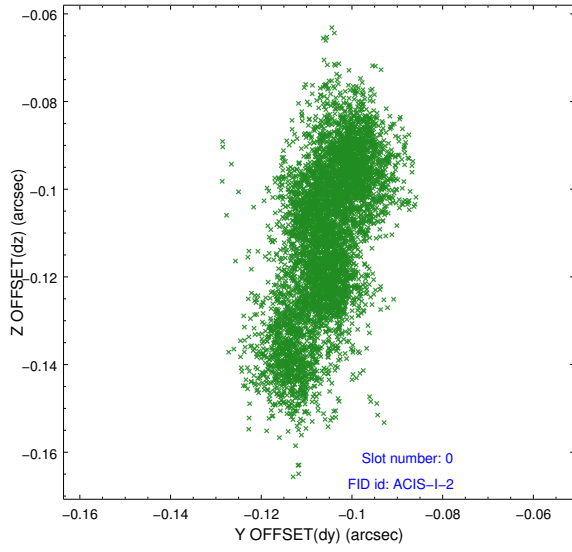


## 2.4.5 Slot 7

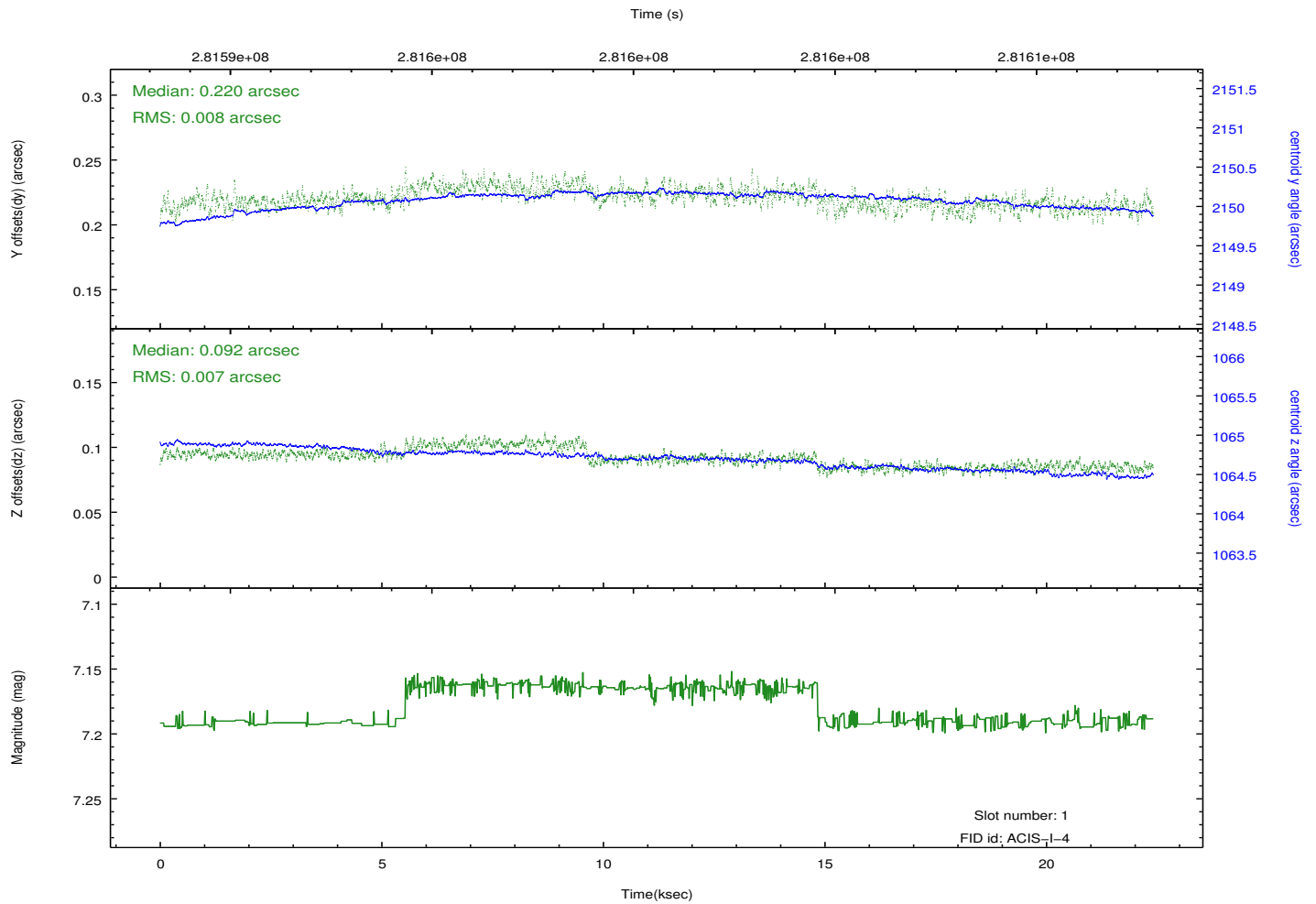
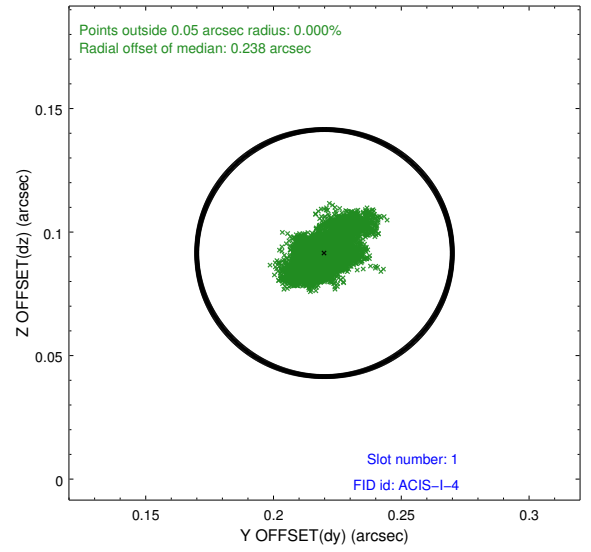
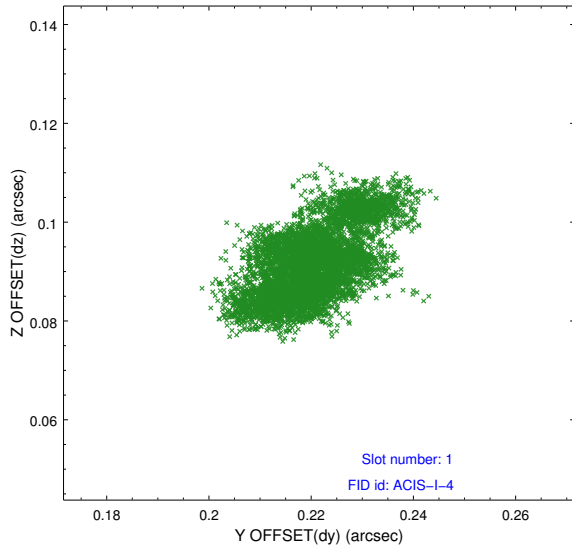


## 2.5 FID Slots

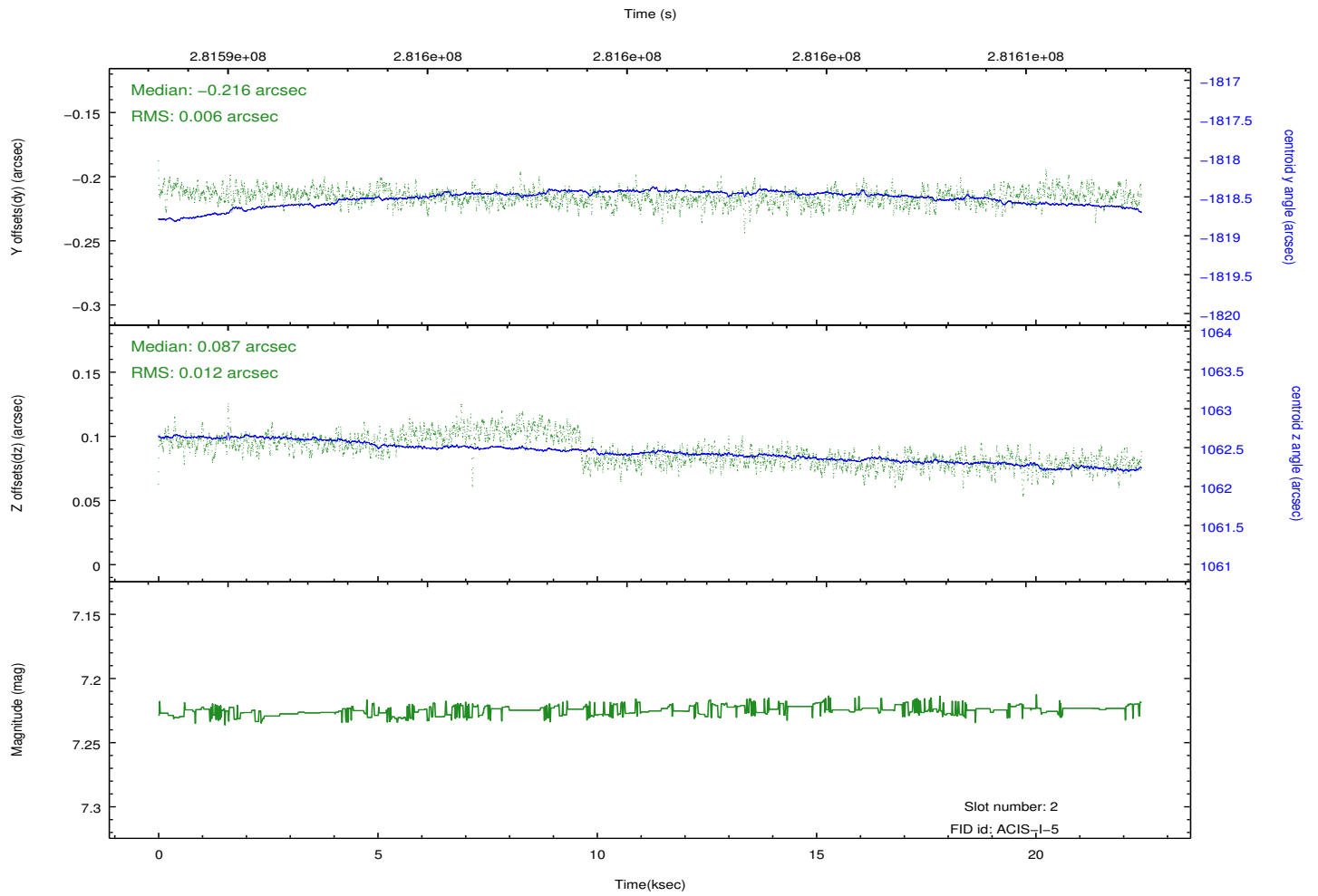
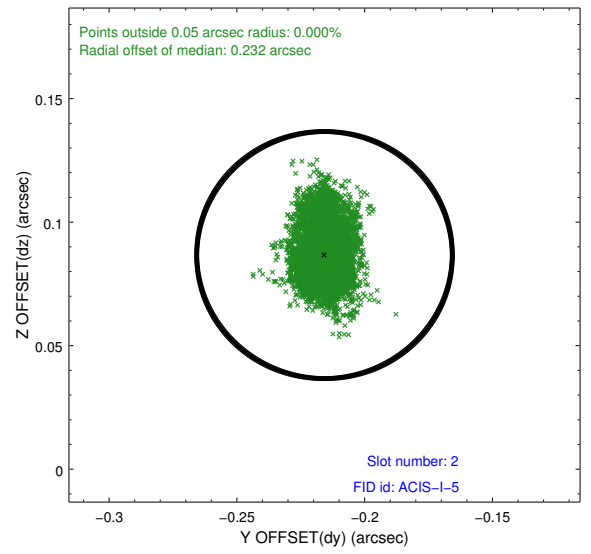
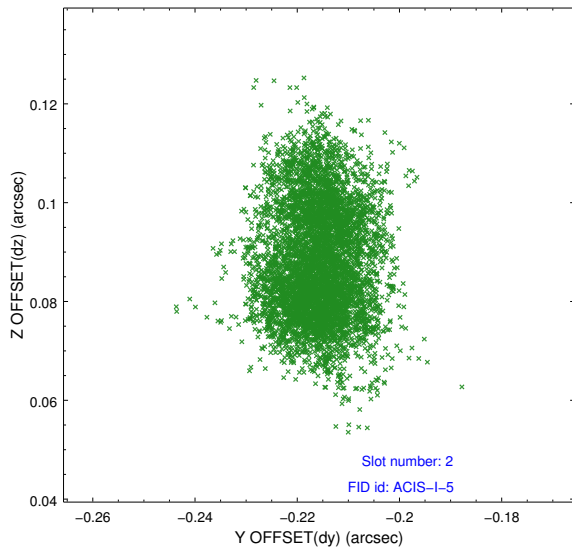
### 2.5.1 Slot 0



## 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)	2012.04.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.0415999

## A.2 Comments