

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9920 - L2 Version 2  
Chandra X-Ray Center

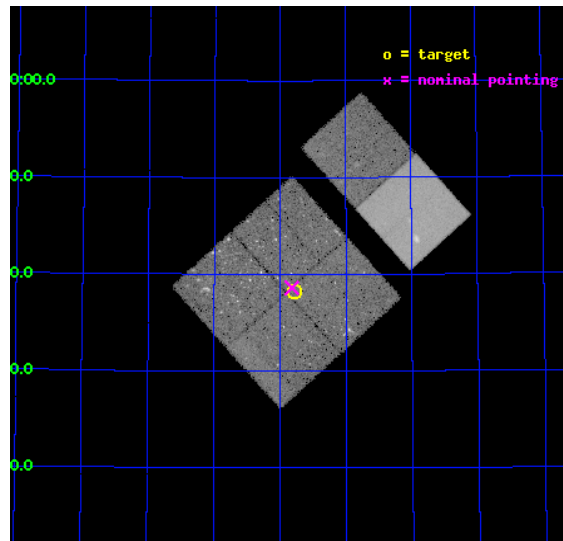
L2 Processing Date : Jun 4 2012

## 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

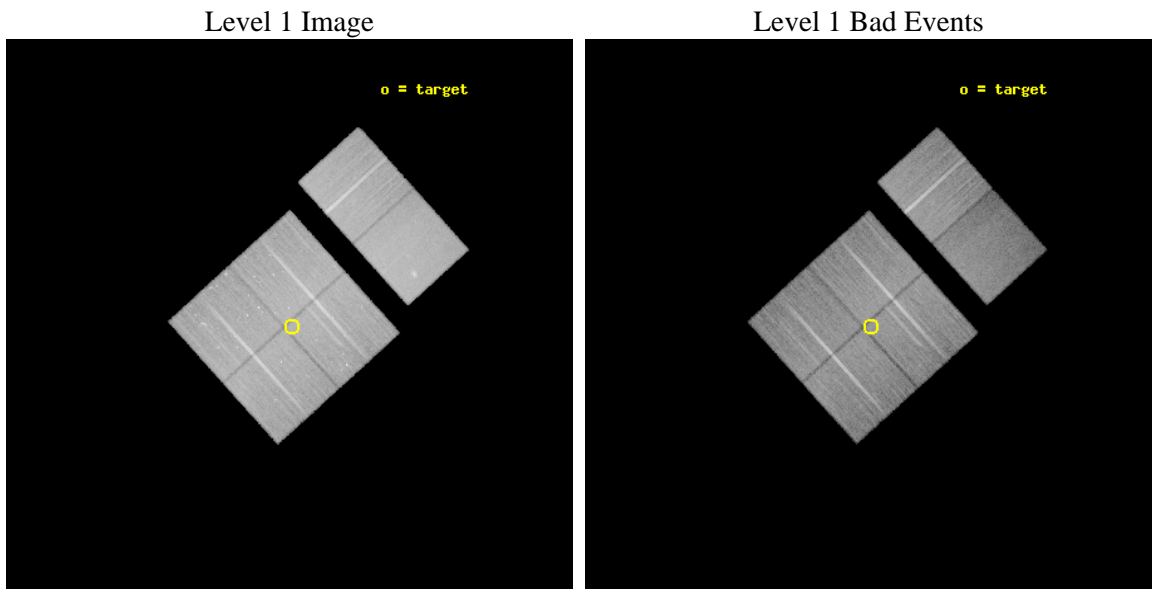
seq_num	200536	Sequence number
obs_id	9920	Observation id
title	Evolution of Young Stars in the Large Massive Cluster Cep OB3b	Pro
observer	Mr. Thomas Allen	Principal investigator
object	Cep B sub-cluster	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	343.947917	Observer's specified target RA [deg]
dec_targ	62.636194	Observer's specified target Dec [deg]
ra_nom	343.9552964769	Nominal RA [deg]
dec_nom	62.643527256687	Nominal Dec [deg]
roll_nom	47.883338764124	Nominal Roll [deg]
revision	2	Processing version of data
ontime	28037.646899223	Sum of GTIs [s]
livetime	27682.617331941	Livetime [s]
ontime0	28034.2828089	Sum of GTIs [s]
ontime1	28037.564819217	Sum of GTIs [s]
ontime2	28037.60585922	Sum of GTIs [s]
ontime3	28037.646899223	Sum of GTIs [s]
ontime6	28034.487989008	Sum of GTIs [s]
ontime7	28037.687939227	Sum of GTIs [s]
l2events	247945	Number of level 2 events



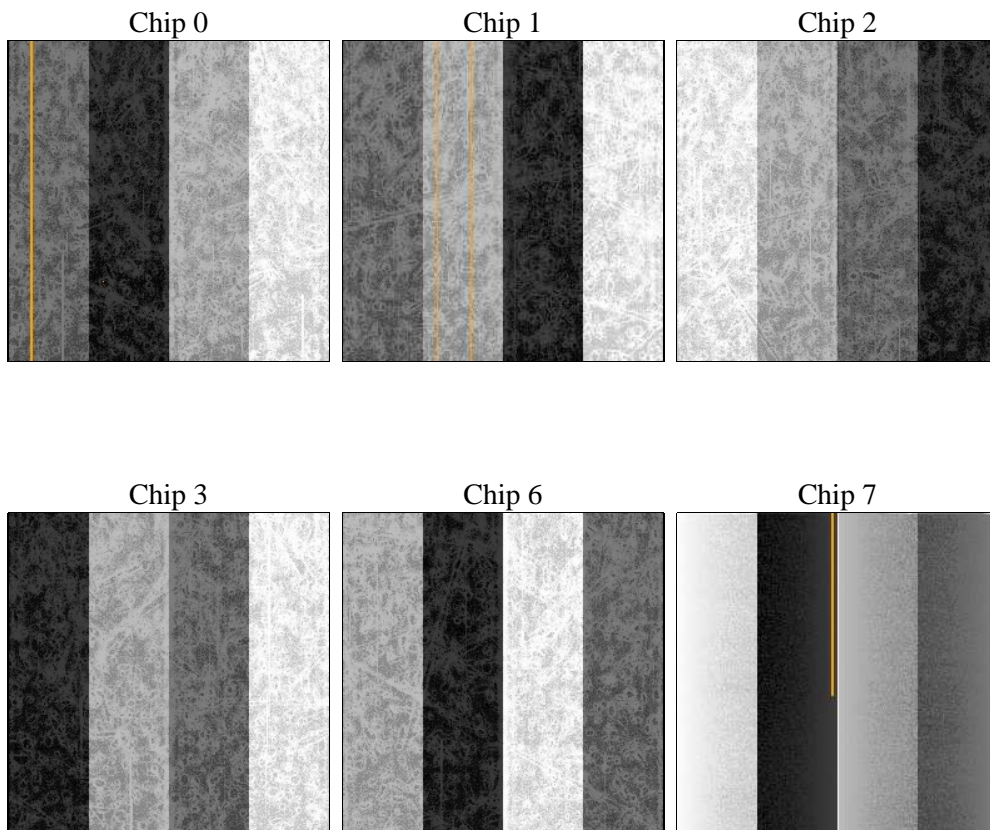
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	28000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	28037.646899223	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	28034.2828089	Sum of GTIs [s]
date	2012-06-04T15:19:51	Date and time of file creation	ontime1	28037.564819217	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	28037.60585922	Sum of GTIs [s]
			ontime3	28037.646899223	Sum of GTIs [s]
			ontime6	28034.487989008	Sum of GTIs [s]
			ontime7	28037.687939227	Sum of GTIs [s]
			l1events	1506663	Number of level 1 events

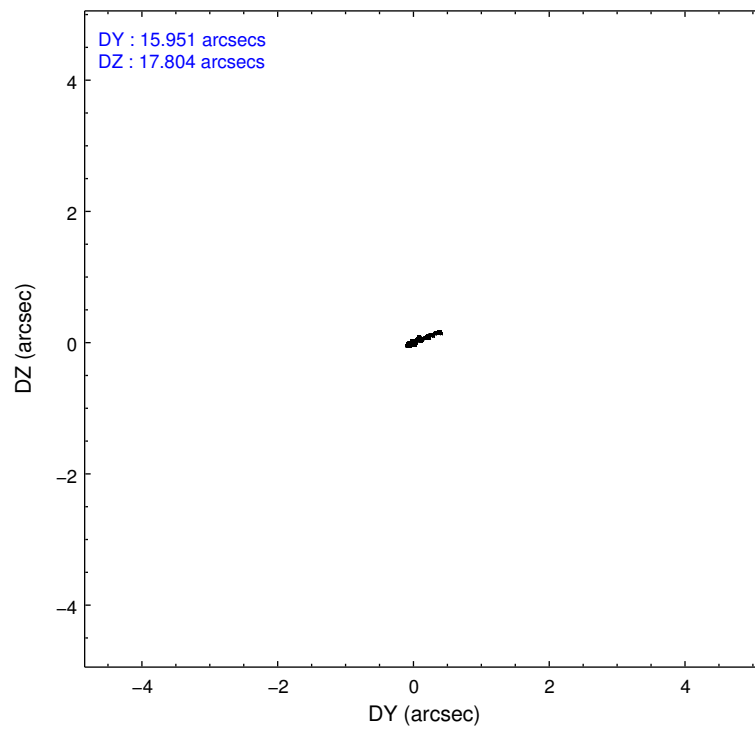
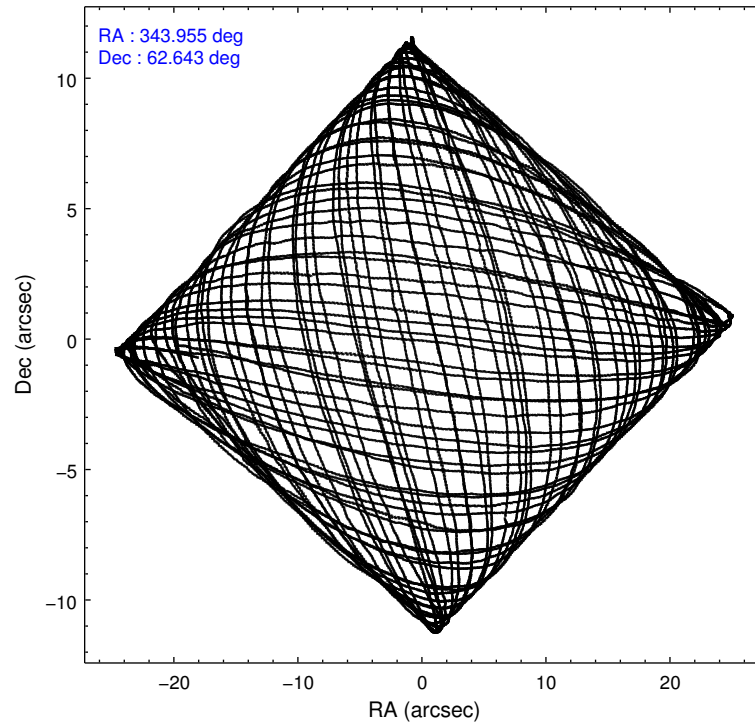
### 2.1.4 Events

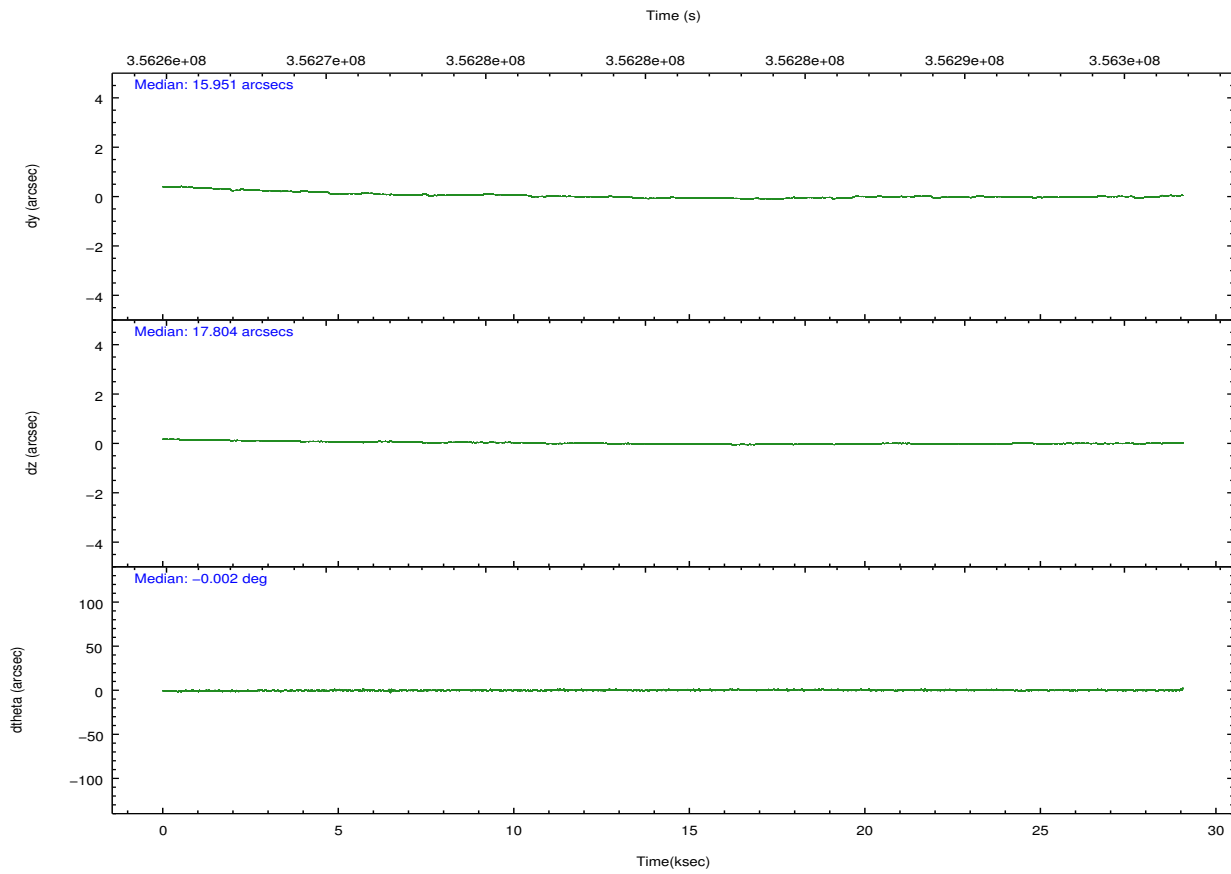
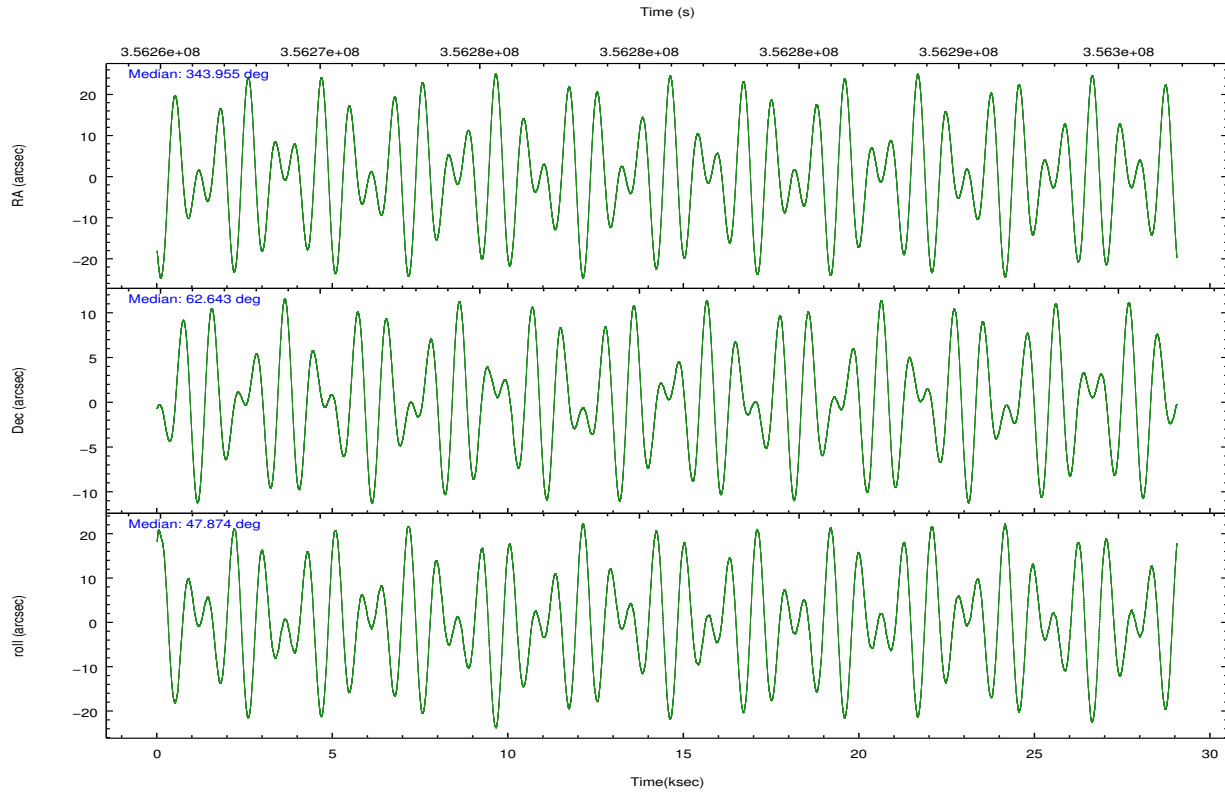
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	235275	229463	258288	245518	258503	279616	grade 0 events	16279	11532	13134	11261	8980	12000
rejected events	201246	199810	228578	218683	232467	151678		6%	5%	5%	4%	3%	4%
rejected %	85%	87%	88%	89%	89%	54%	grade 1 events	188	128	189	148	138	419
								0%	0%	0%	0%	0%	0%
							grade 2 events	7014	6539	6395	5512	5939	26160
								2%	2%	2%	2%	2%	9%
							grade 3 events	2975	3045	2661	2743	2659	11658
								1%	1%	1%	1%	1%	4%
							grade 4 events	2846	2899	2864	2645	2754	11493
								1%	1%	1%	1%	1%	4%
							grade 5 events	8701	9385	8136	9828	10364	29487
								3%	4%	3%	4%	4%	10%
							grade 6 events	4921	5643	4659	4679	5704	66642
								2%	2%	1%	1%	2%	23%
							grade 7 events	192351	190292	220250	208702	221965	121757
								81%	82%	85%	85%	85%	43%

## 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	343.942984	343.9552964769021	CCD I2 on	Y	Y
[deg] Pointing Dec	62.616619	62.64352725668676	CCD I3 on	Y	Y
[deg] Pointing Roll	47.685587	47.88333876412403	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)	356267396.184000	356265956.4622	CCD S5 on	N	N
Observation start date	2009-04-16T11:08:50	2009-04-16T10:45:56	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	356295396.184000	356296373.85122	On-chip summing requested	N	N
Observation end date	2009-04-16T18:55:30	2009-04-16T19:12:53	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



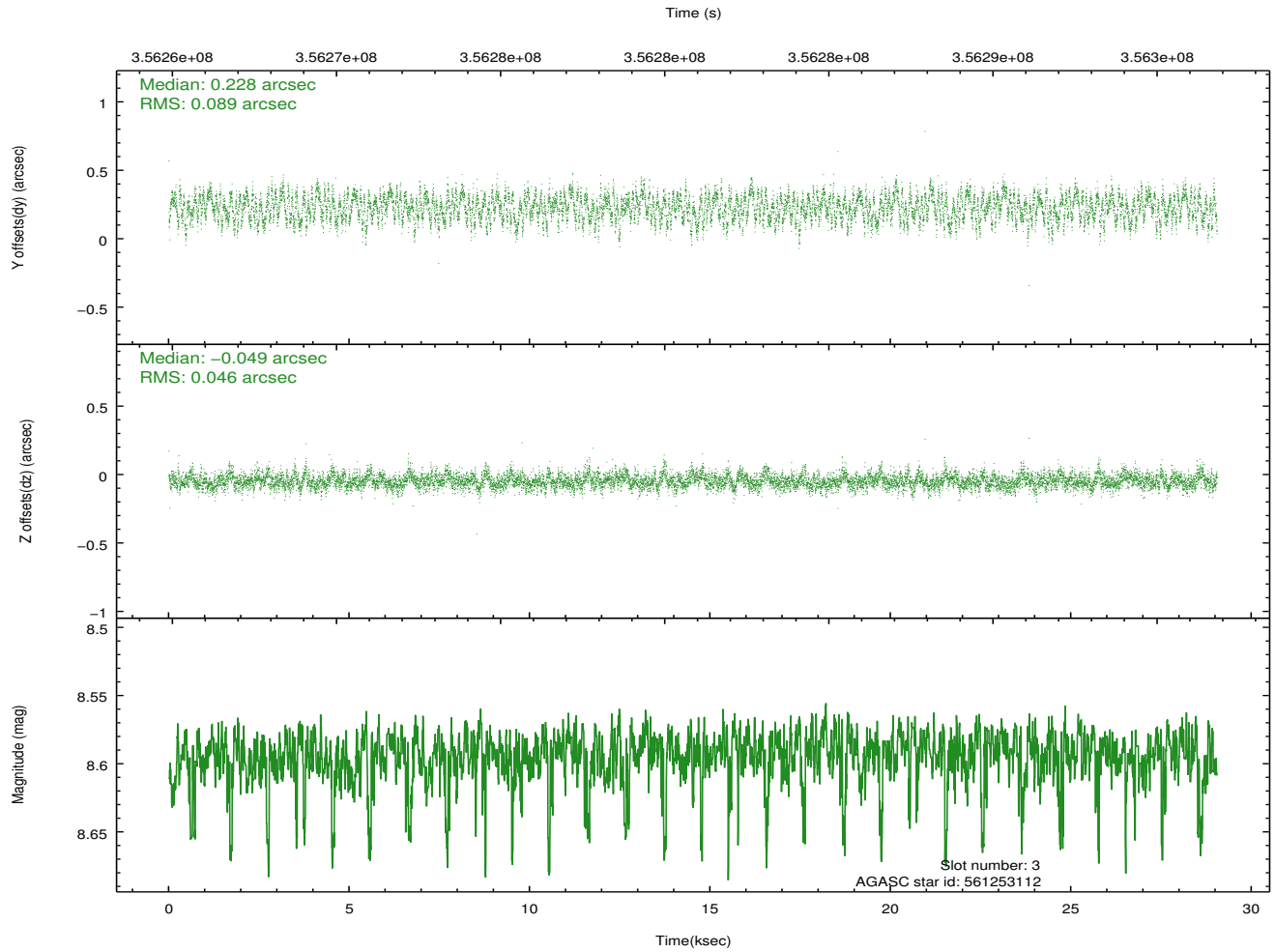
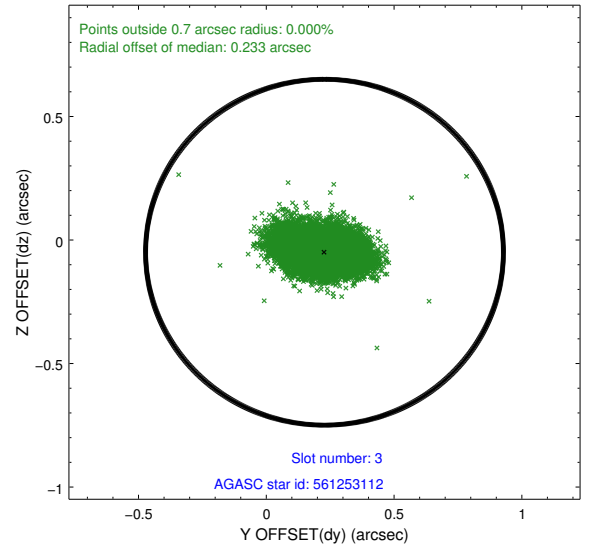
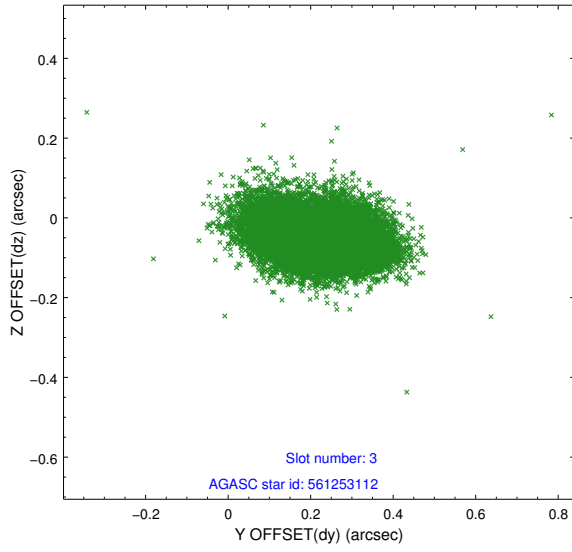


### Slot Statistics

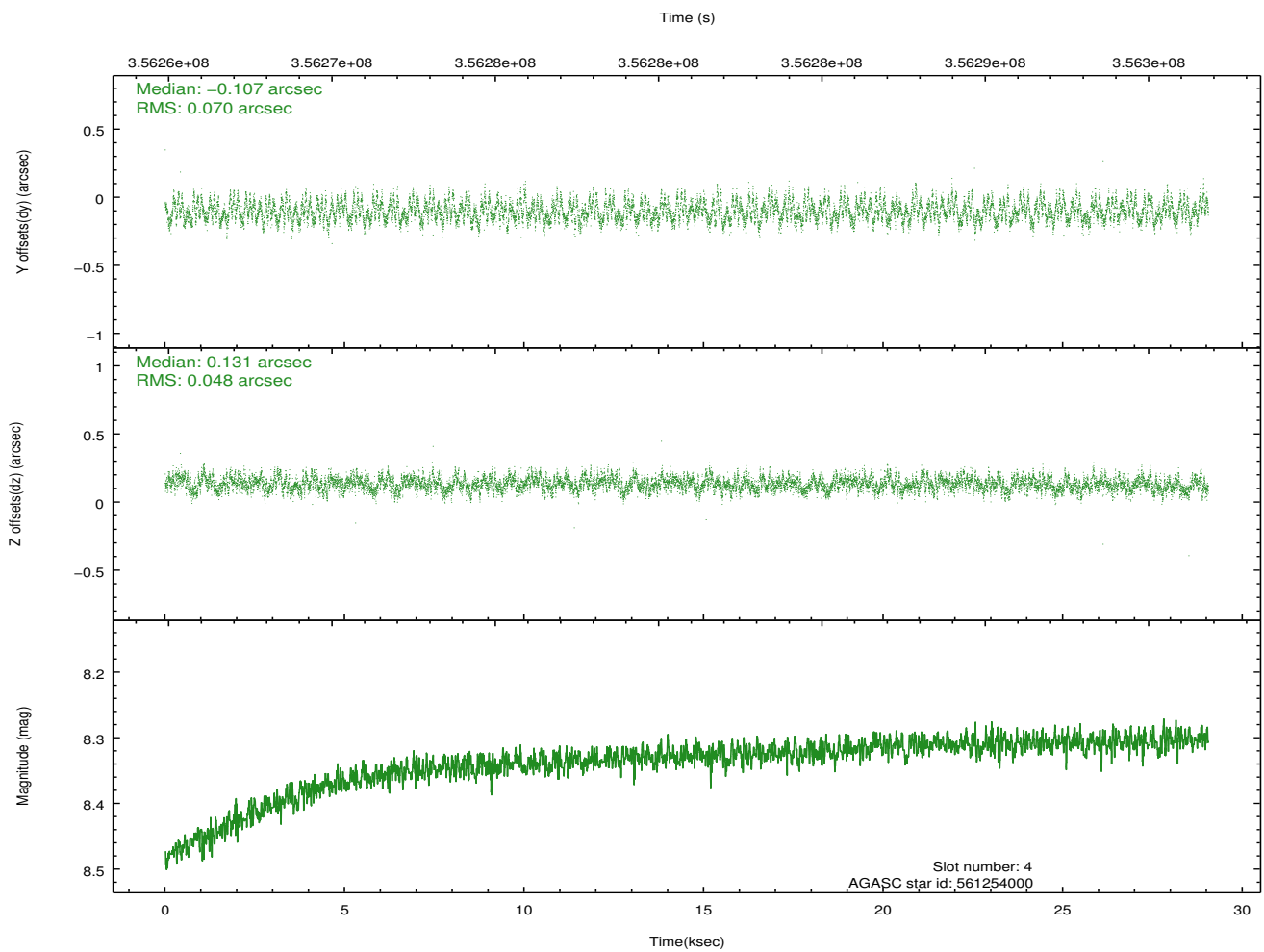
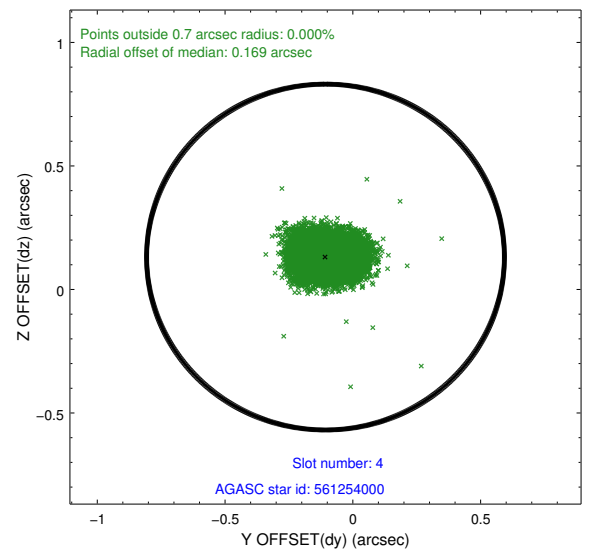
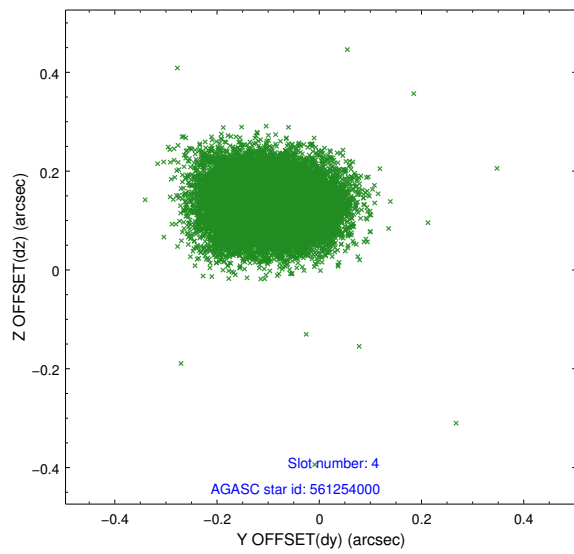
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	7085	0.041	0.014	0.006	0.011	0.000000	0.000000	923.47	-841.49
1	FID	ACIS-I-5	7.00	7085	-0.202	0.054	0.006	0.011	0.000000	0.000000	-1824.82	1056.01
2	FID	ACIS-I-6	7.02	7085	0.070	0.003	0.007	0.011	0.000000	0.000000	388.97	1700.54
3	GUIDE	561253112	8.59	14164	0.228	-0.049	0.105	0.175	345.838047	62.642425	2213.94	-2224.11
4	GUIDE	561254000	8.33	14163	-0.107	0.131	0.092	0.144	345.523435	62.512083	1513.96	-2173.15
5	GUIDE	561254048	7.62	14169	-0.108	-0.124	0.061	0.106	344.665806	63.077158	2024.27	249.47
6	GUIDE	561255672	6.69	14171	-0.012	-0.101	0.075	0.117	342.872792	62.972182	-221.53	2165.61
7	GUIDE	561253040	8.06	14165	-0.003	0.141	0.063	0.101	343.127313	62.440534	-1376.84	583.76

## 2.4 Star Slots

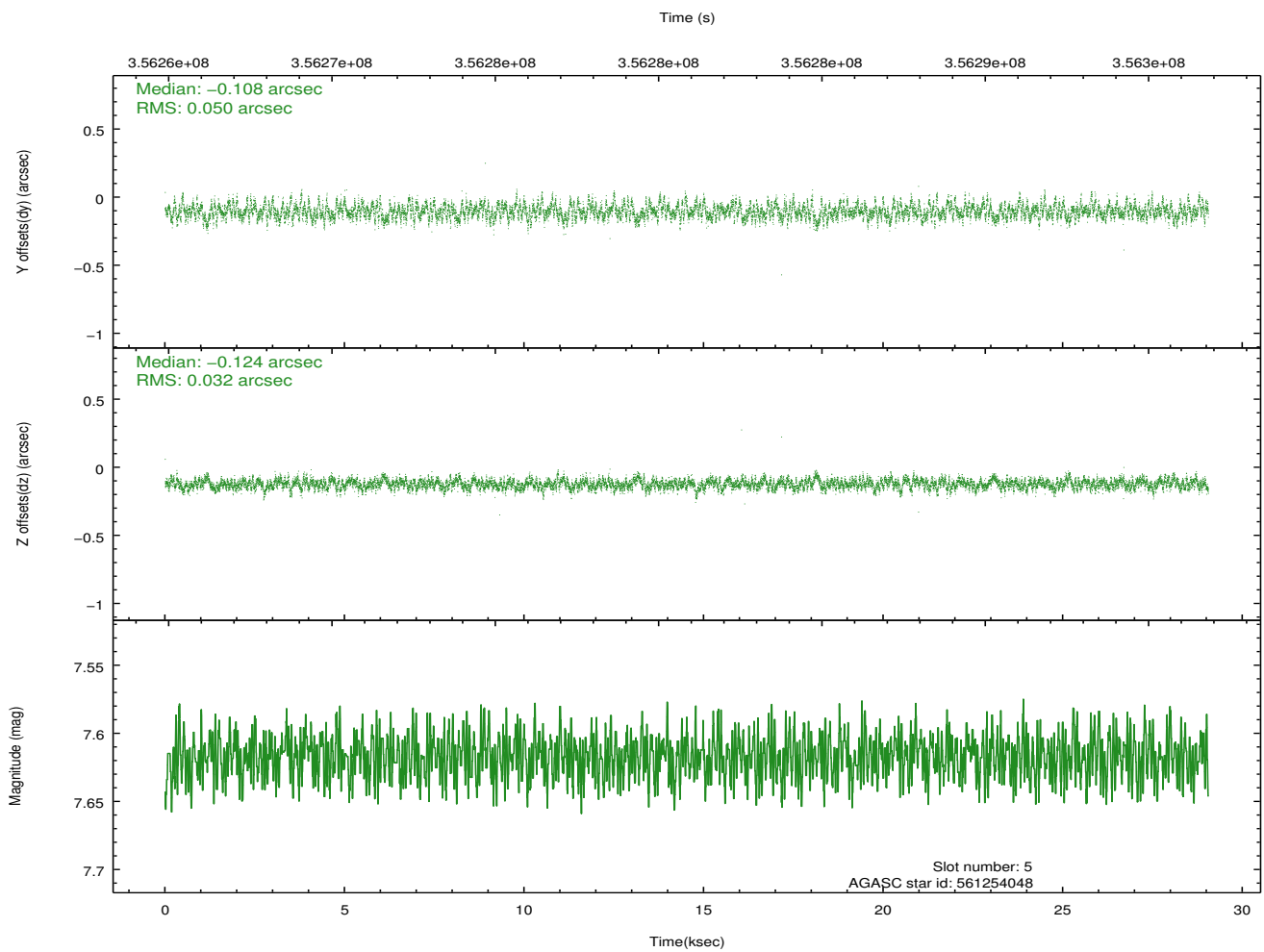
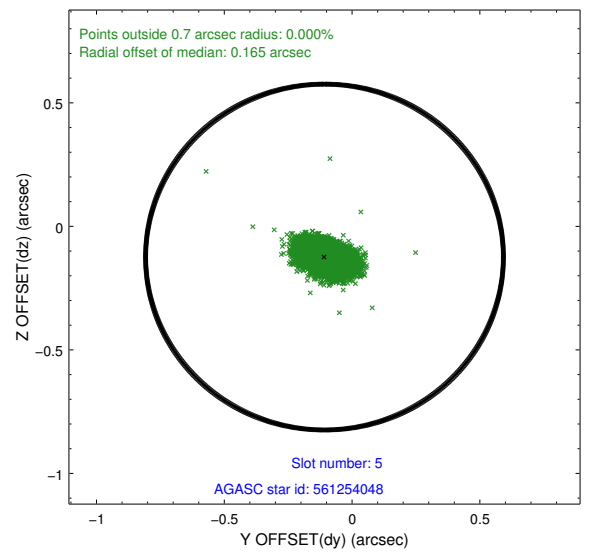
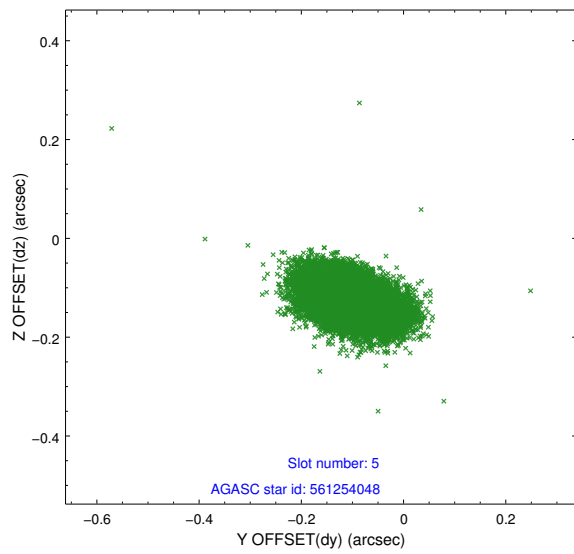
### 2.4.1 Slot 3



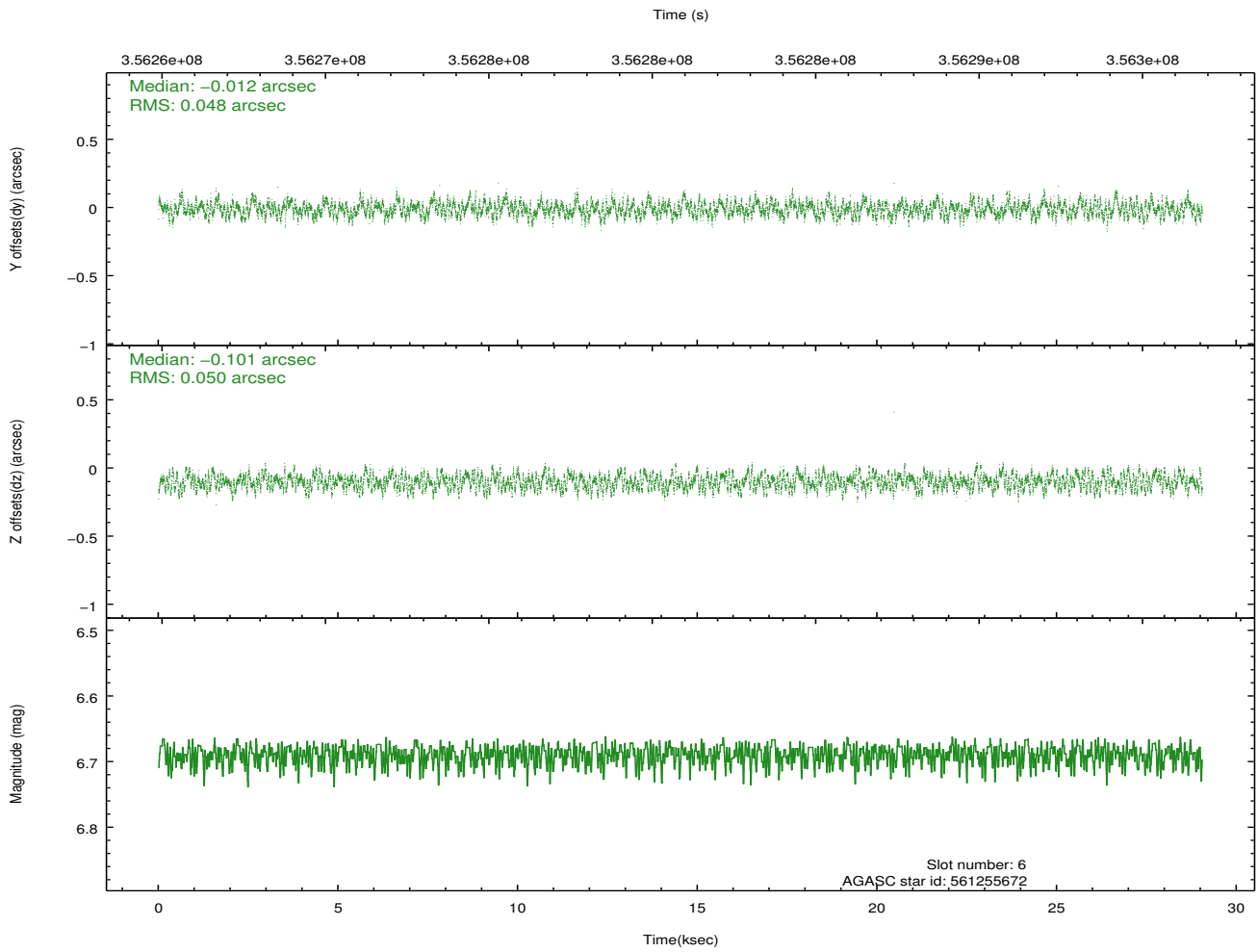
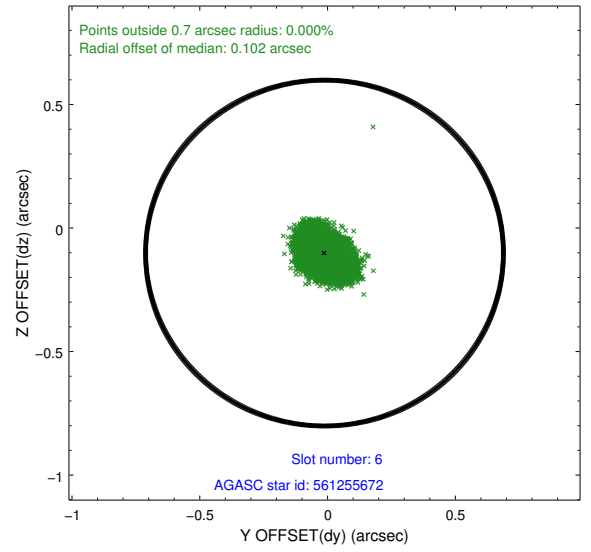
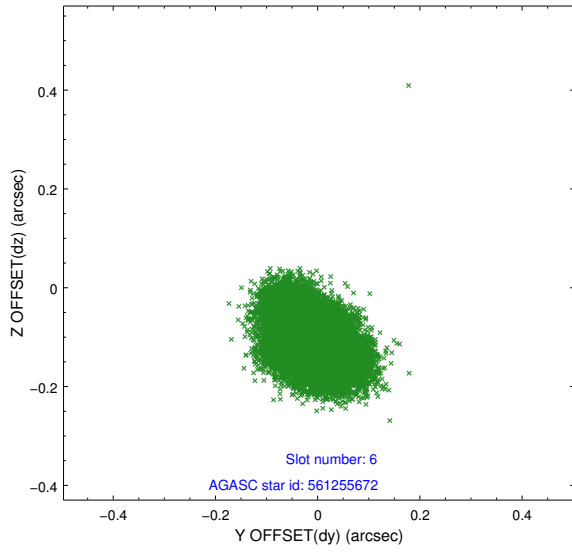
## 2.4.2 Slot 4



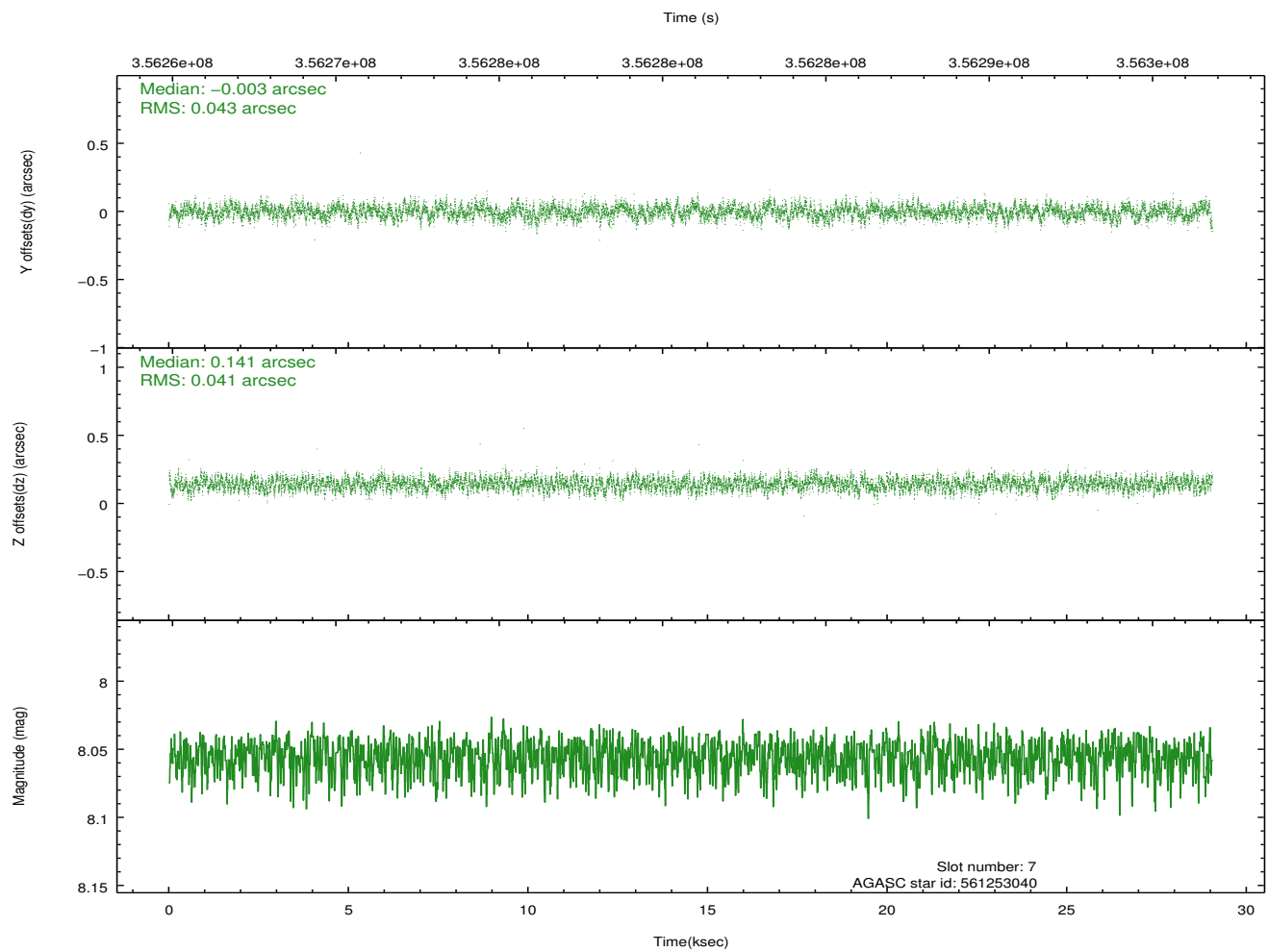
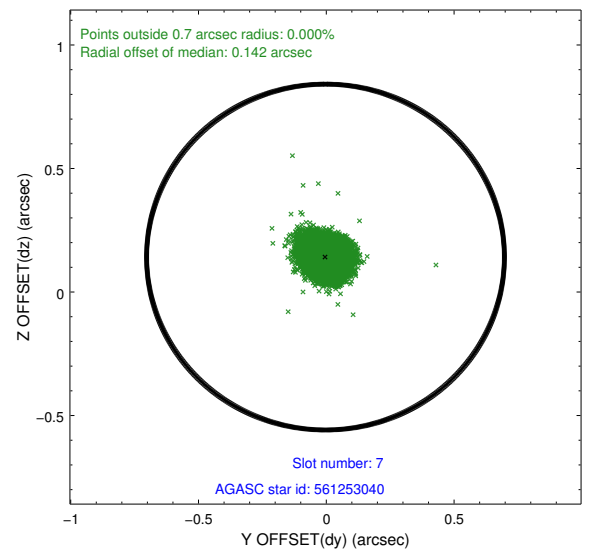
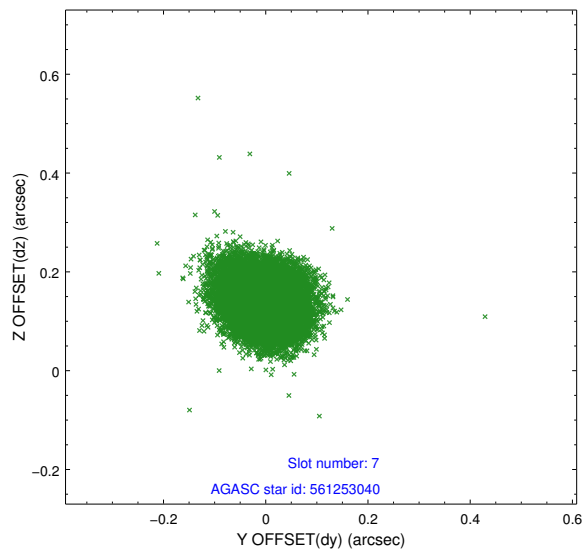
### 2.4.3 Slot 5



## 2.4.4 Slot 6

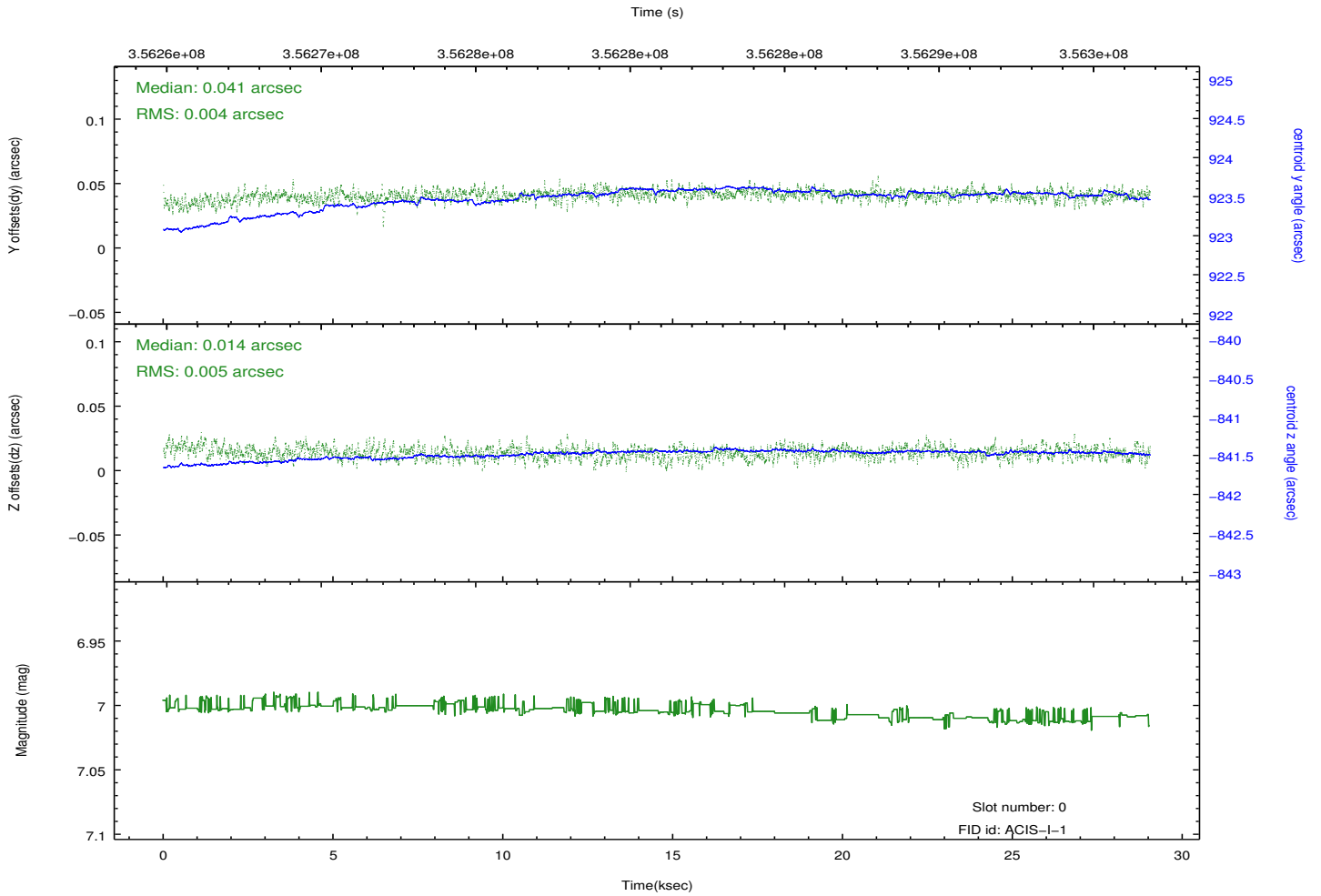
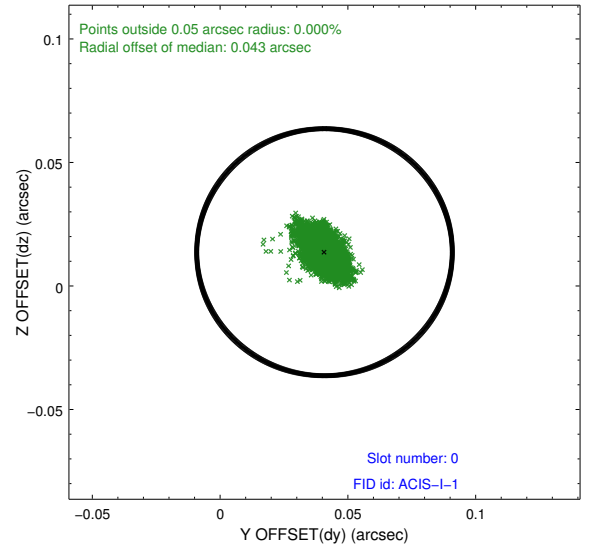
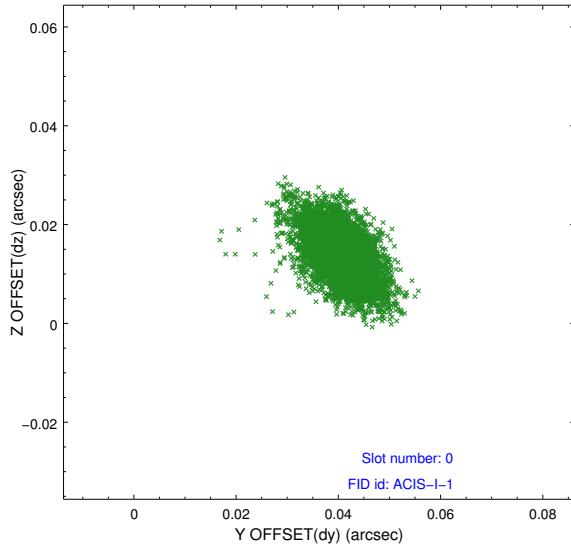


## 2.4.5 Slot 7

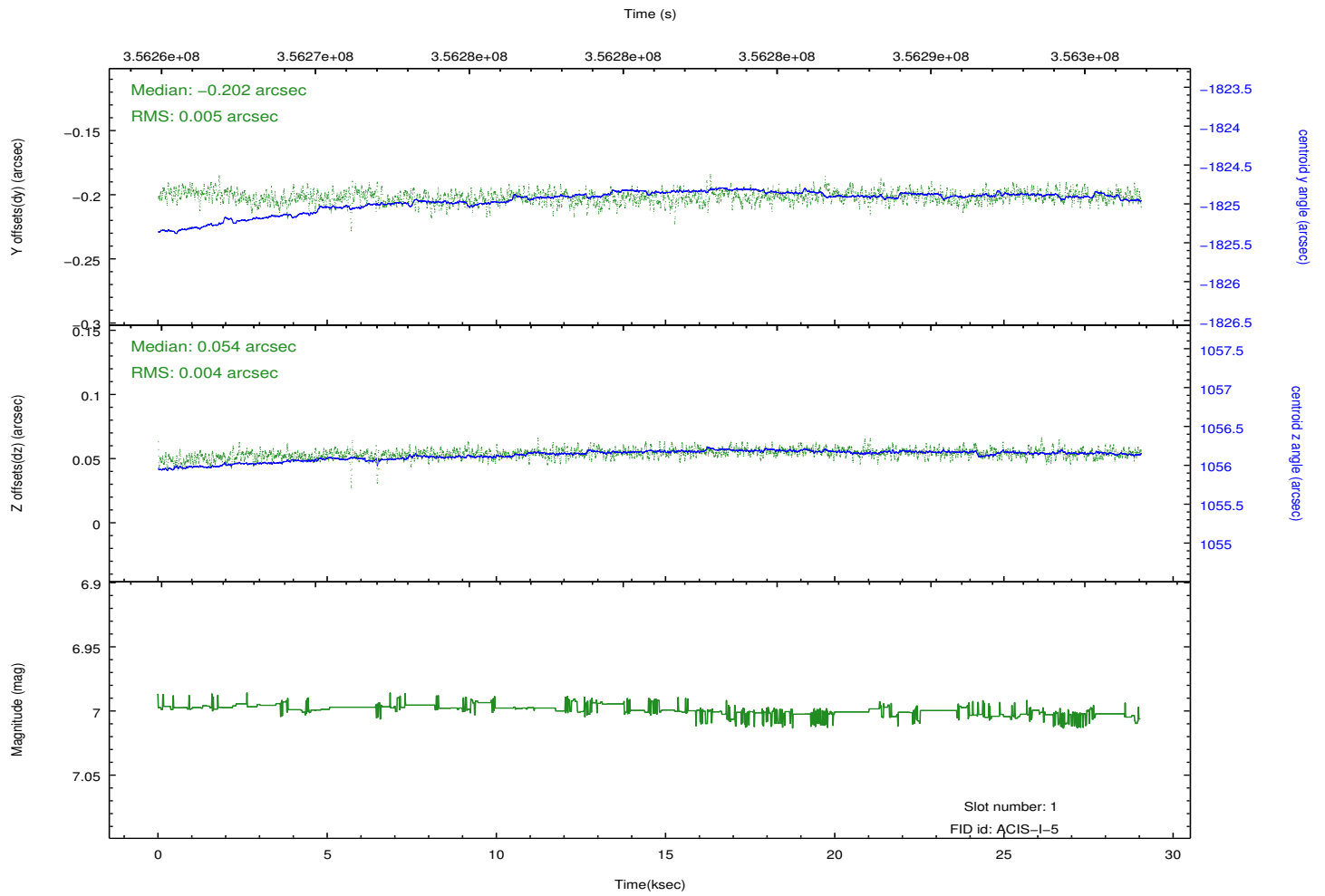
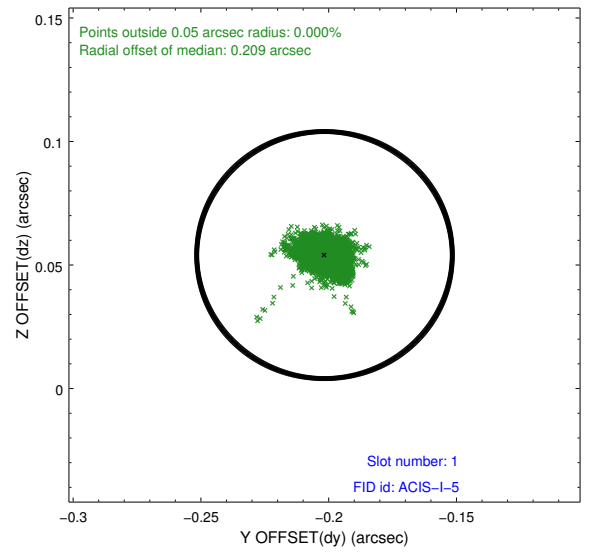
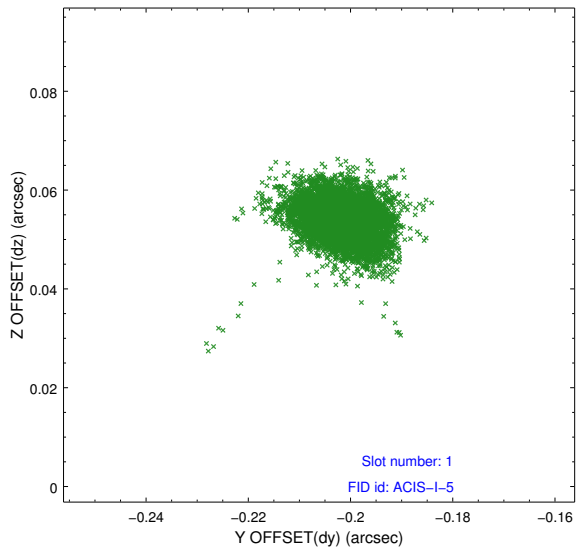


## 2.5 FID Slots

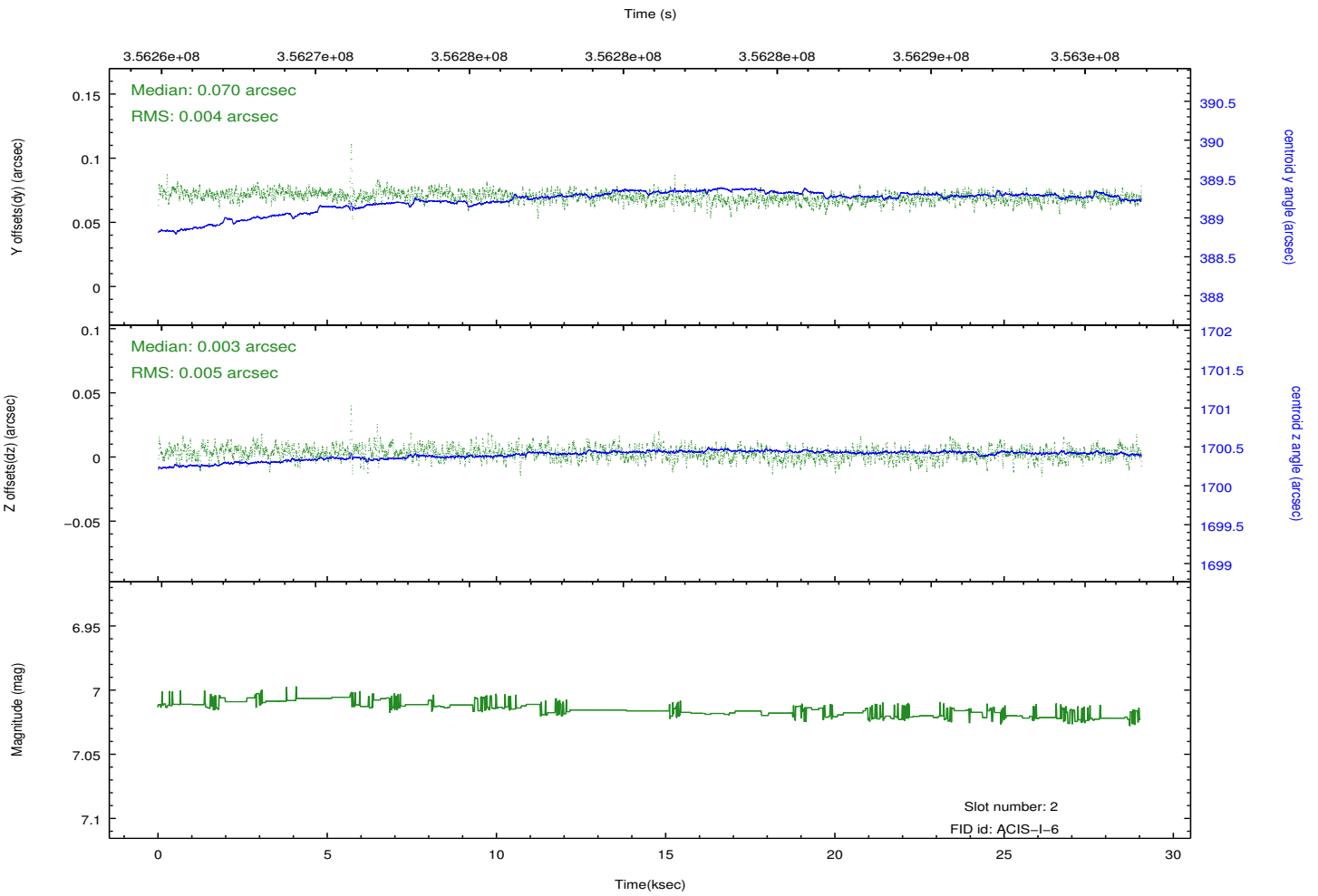
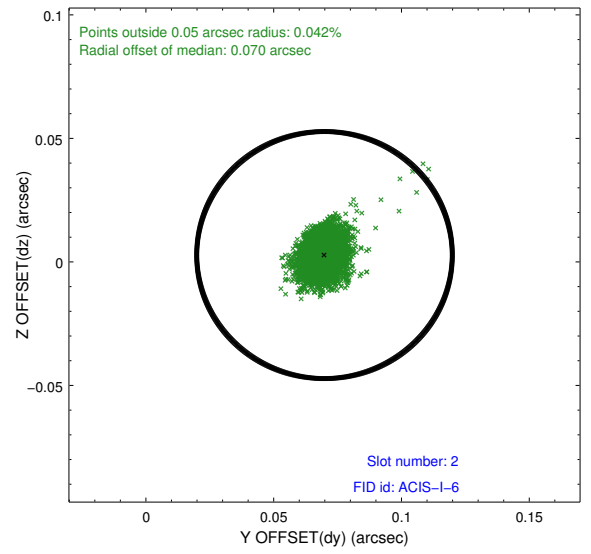
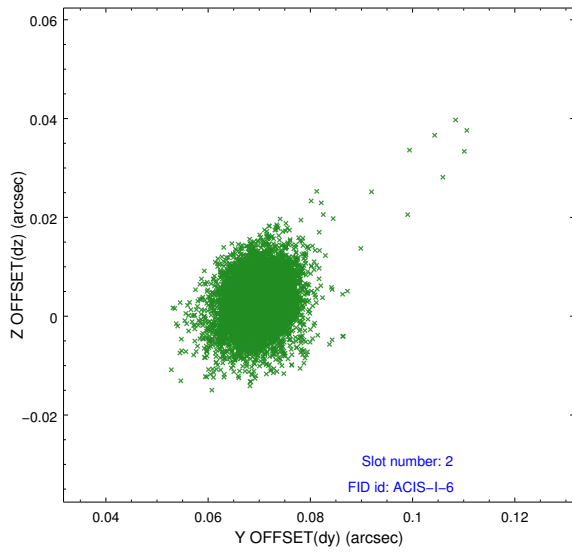
### 2.5.1 Slot 0



## 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)	2012.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.0383998

## A.2 Comments