

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11627 - L2 Version 2  
Chandra X-Ray Center

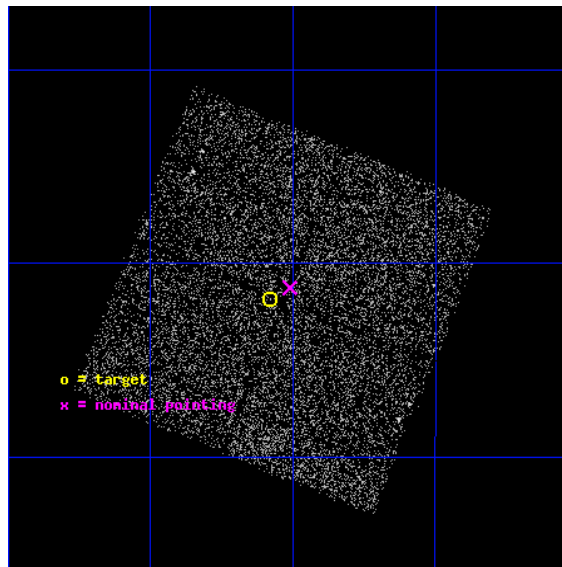
L2 Processing Date : Jun 20 2012

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# 1 Front

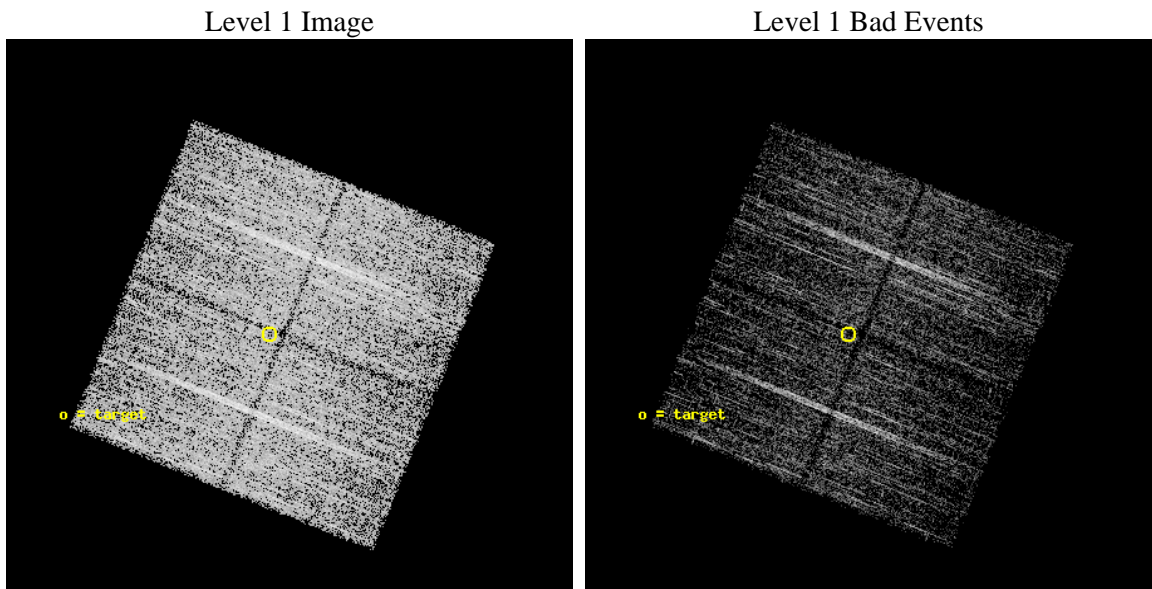
seq_num	702213	Sequence number
obs_id	11627	Observation id
title	AGN ignition in the galaxy group environment	Proposal title
observer	Dr. John Silverman	Principal investigator
object	2PIGG_m1347	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	149.894583	Observer's specified target RA [deg]
dec_targ	-5.363611	Observer's specified target Dec [deg]
ra_nom	149.87746996614	Nominal RA [deg]
dec_nom	-5.3543268284394	Nominal Dec [deg]
roll_nom	22.090850994514	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5124.3000394106	Sum of GTIs [s]
livetime	5057.3472869409	Livetime [s]
ontime0	5124.3000394106	Sum of GTIs [s]
ontime1	5124.3000394106	Sum of GTIs [s]
ontime2	5124.3000394106	Sum of GTIs [s]
ontime3	5124.3000394106	Sum of GTIs [s]
l2events	15007	Number of level 2 events



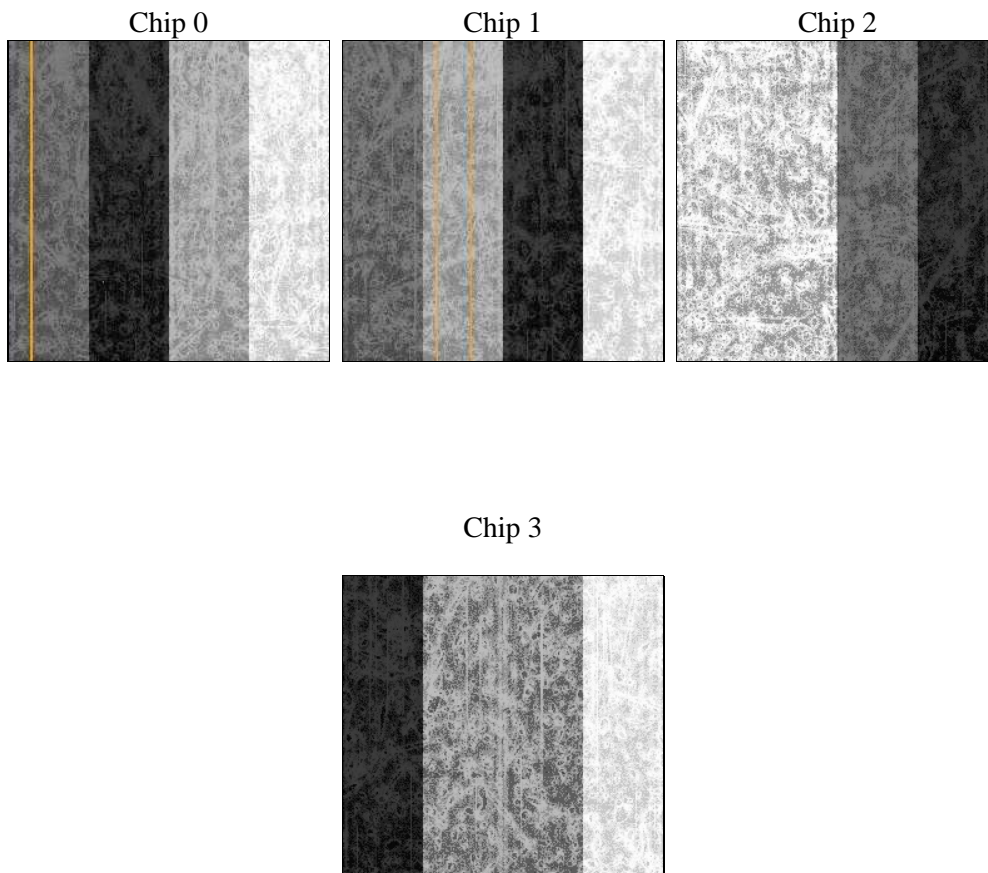
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4999.808000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5124.3000394106	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime0	5124.3000394106	Sum of GTIs [s]
date	2012-06-21T00:32:23	Date and time of file creation	ontime1	5124.3000394106	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5124.3000394106	Sum of GTIs [s]
			ontime3	5124.3000394106	Sum of GTIs [s]
			l1events	176415	Number of level 1 events

### 2.1.4 Events

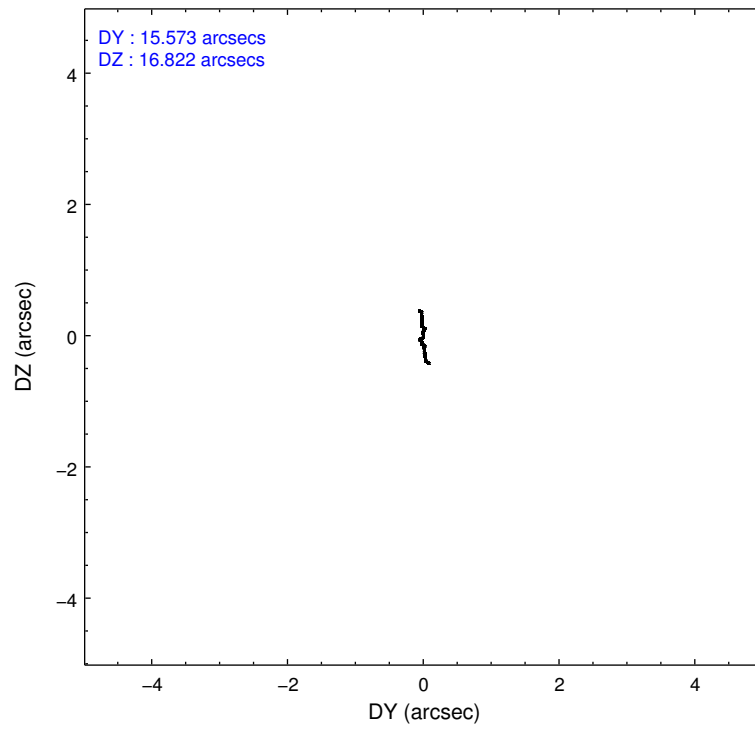
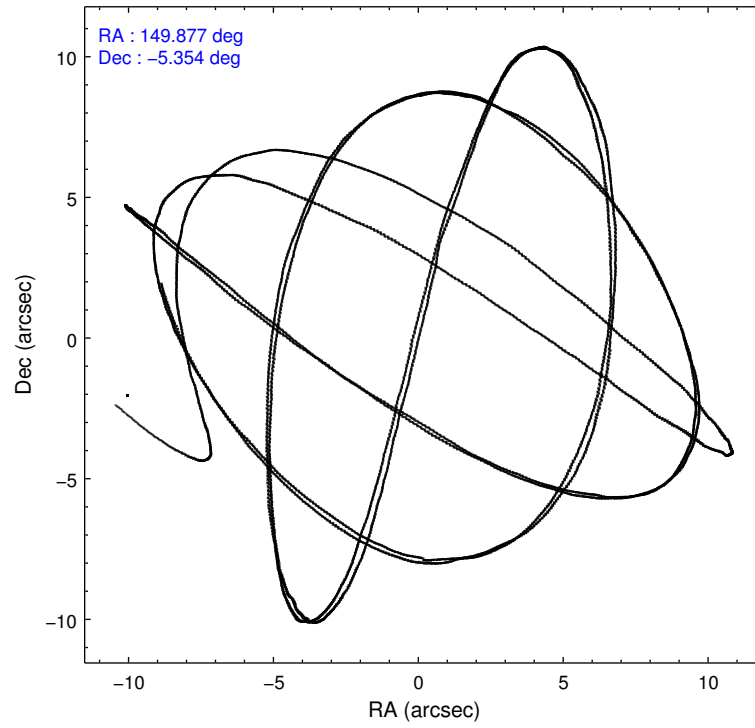
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	42622	42497	46371	44925
rejected events	38248	37458	41861	40706
rejected %	89%	88%	90%	90%

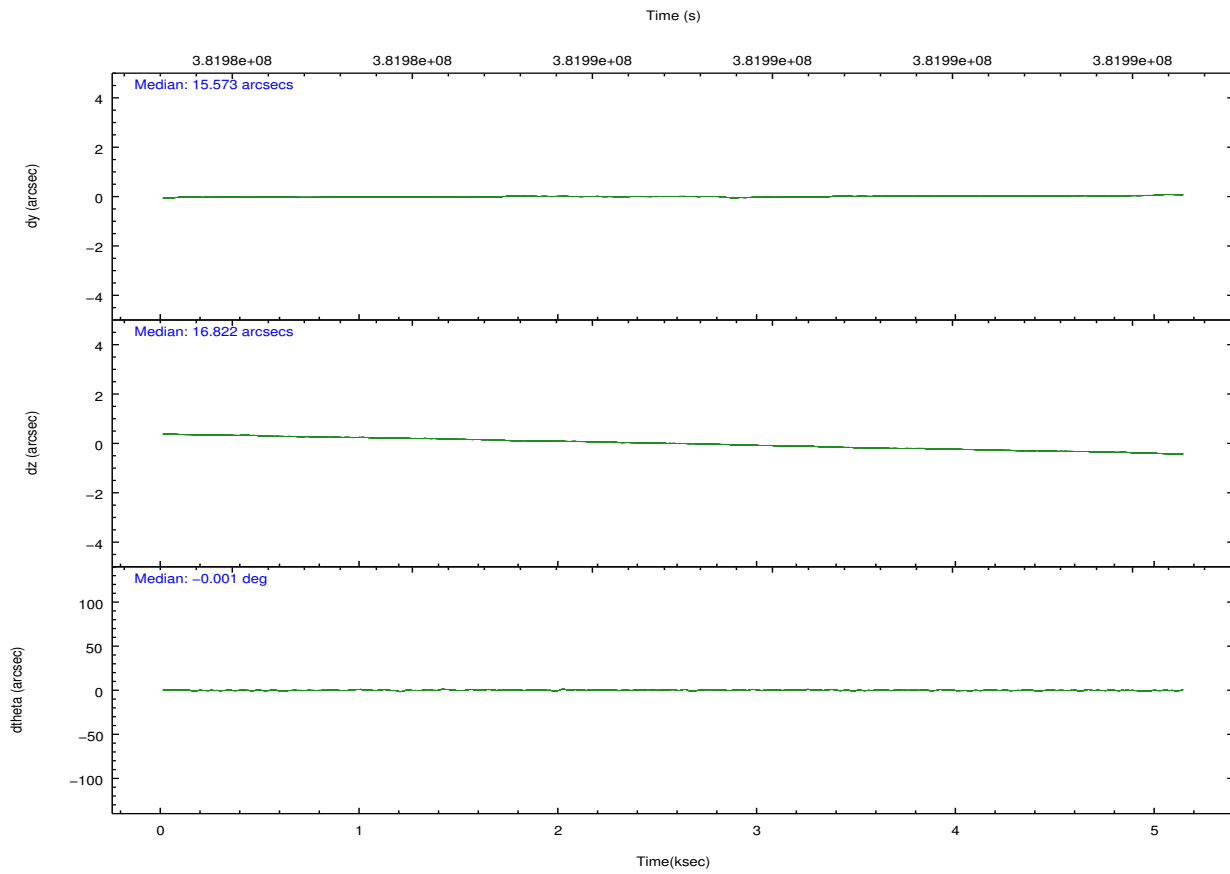
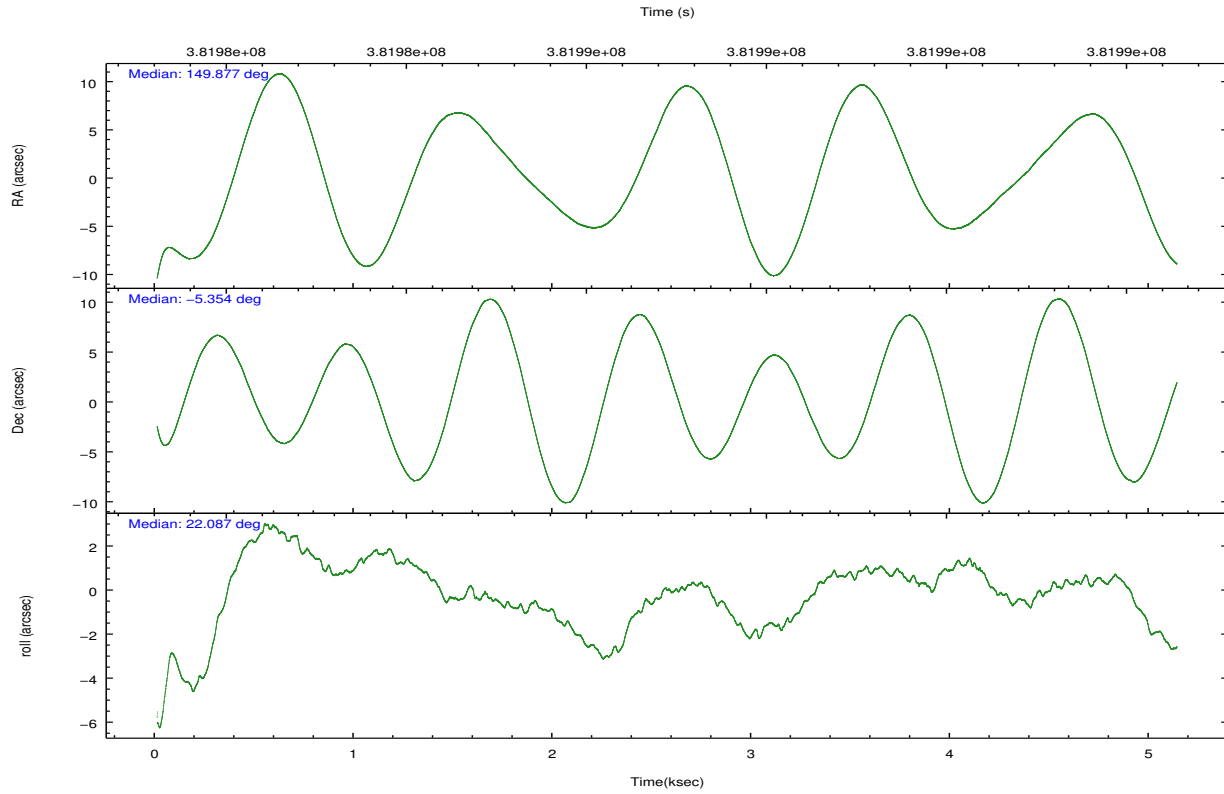
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1619	2045	1835	1592
	3%	4%	3%	3%
grade 1 events	30	18	22	36
	0%	0%	0%	0%
grade 2 events	1175	1171	1145	1024
	2%	2%	2%	2%
grade 3 events	545	556	487	509
	1%	1%	1%	1%
grade 4 events	461	539	507	472
	1%	1%	1%	1%
grade 5 events	1793	1803	1604	1880
	4%	4%	3%	4%
grade 6 events	893	1036	841	882
	2%	2%	1%	1%
grade 7 events	36106	35329	39930	38530
	84%	83%	86%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	149.860656	149.8774699661435	Subarray requested	NONE	NONE
[deg] Pointing Dec	-5.376095	-5.354326828439442	Alternating exposures requested	N	N
[deg] Pointing Roll	21.880595	22.09085099451373	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	381984018.184000	381982945.86581			
Observation start date	2010-02-08T02:39:12	2010-02-08T02:22:25			
[s] Observation end time (MET)	381989017.184000	381989248.07863			
Observation end date	2010-02-08T04:02:31	2010-02-08T04:07:28			
Read mode	TIMED	TIMED			

## 2.3 Aspect



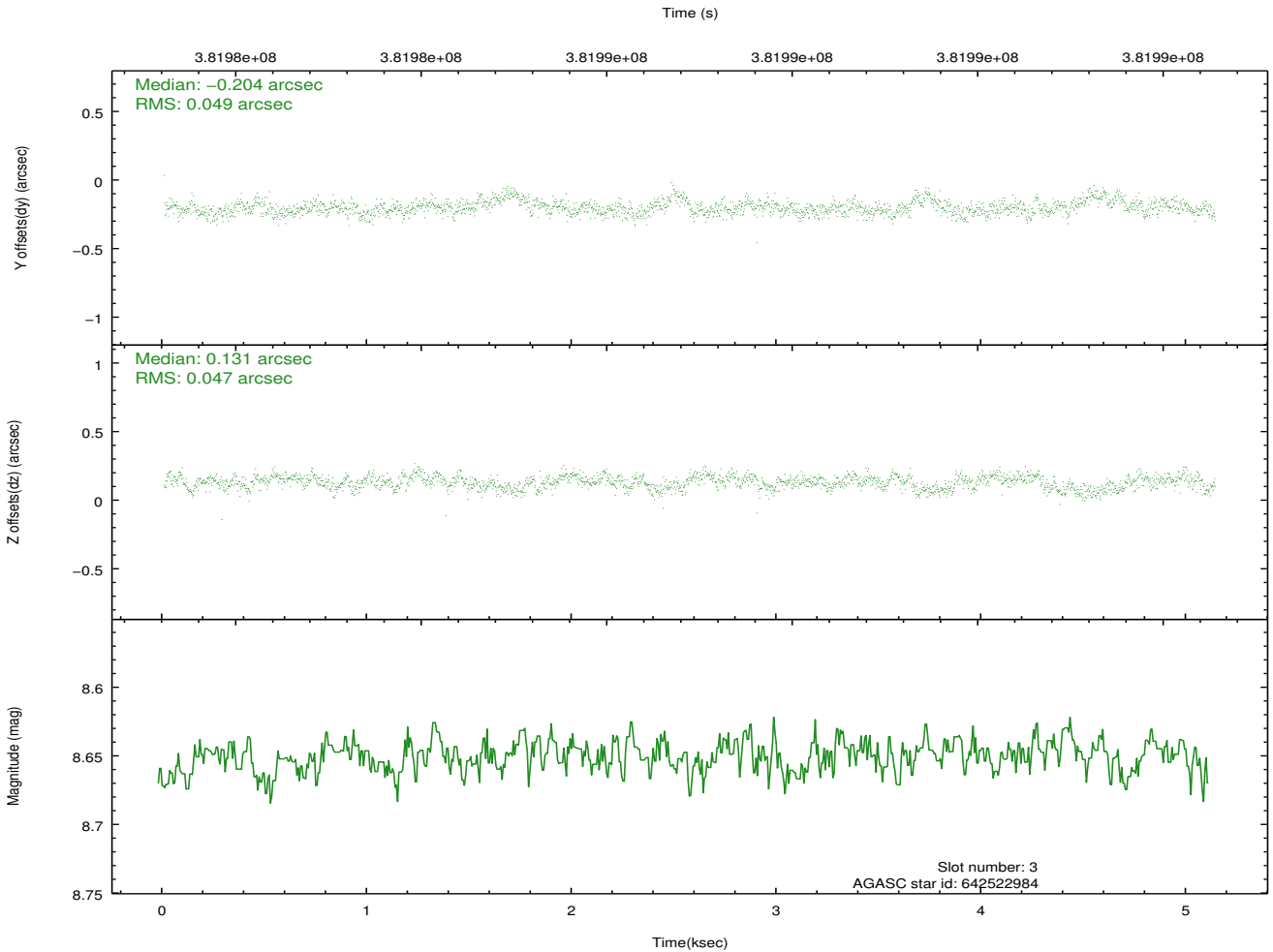
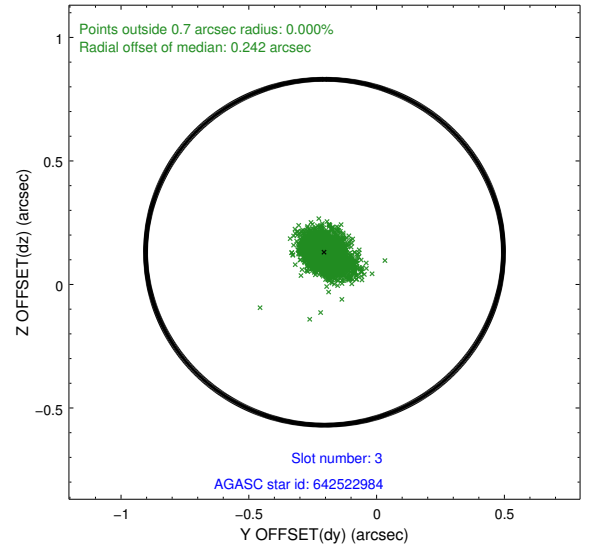
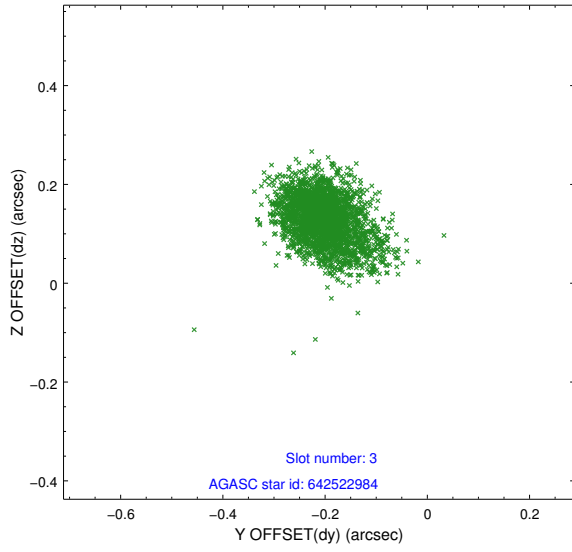


### Slot Statistics

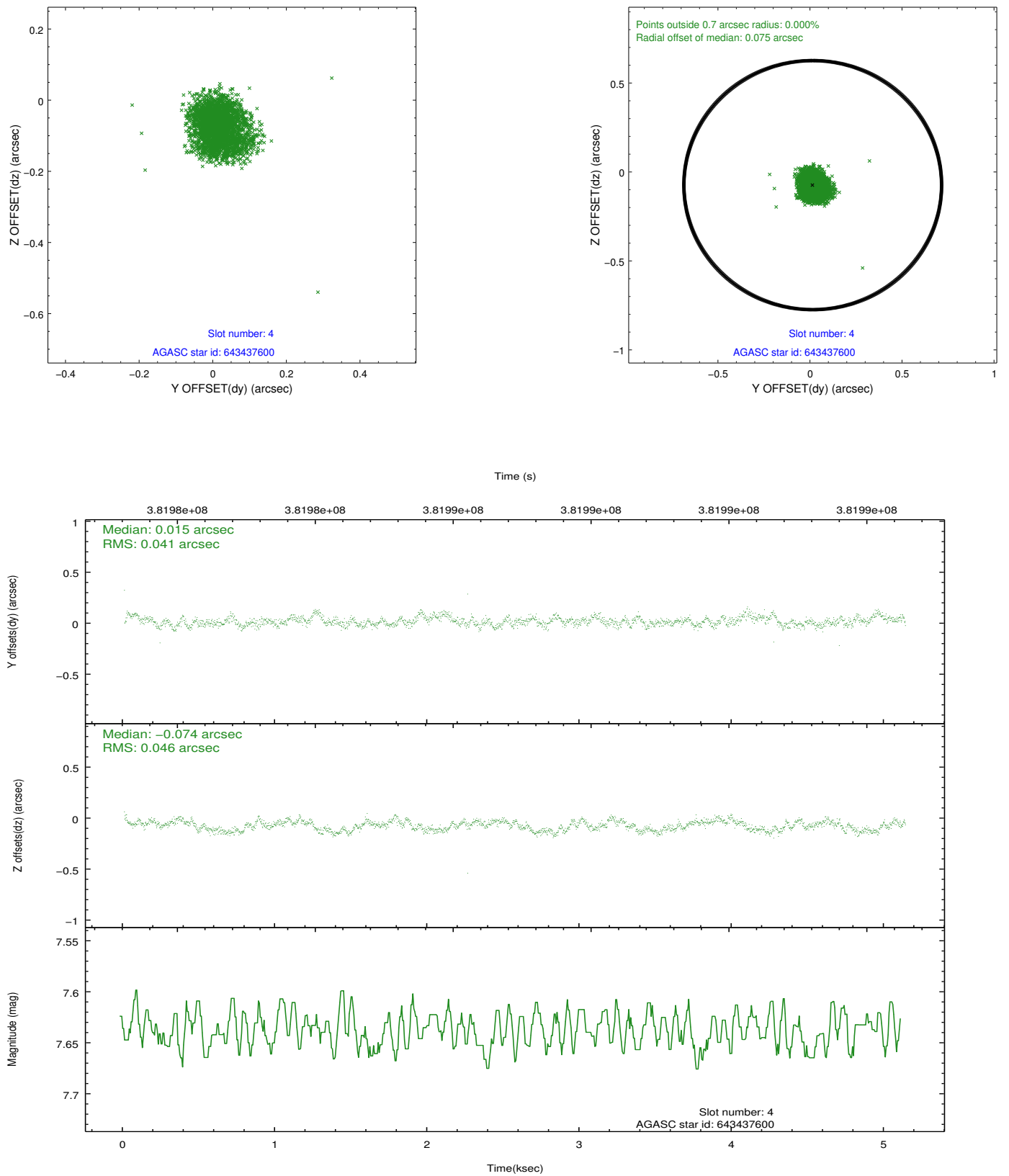
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.01	1252	0.059	-0.029	0.009	0.014	0.000000	0.000000	923.91	-840.50
1	FID	ACIS-I-5	7.00	1252	-0.208	0.063	0.007	0.011	0.000000	0.000000	-1823.78	1056.53
2	FID	ACIS-I-6	7.01	1252	0.057	0.037	0.011	0.016	0.000000	0.000000	388.21	1702.31
3	GUIDE	642522984	8.65	2501	-0.204	0.131	0.070	0.120	149.320499	-5.182668	-1537.88	1367.27
4	GUIDE	643437600	7.64	2502	0.015	-0.074	0.066	0.100	150.016097	-5.012705	1004.43	1006.93
5	GUIDE	643437680	8.94	2504	0.006	0.179	0.082	0.132	150.468796	-5.706114	1579.02	-1914.27
6	GUIDE	643438848	8.19	2504	0.022	-0.142	0.051	0.082	150.442281	-5.127828	2268.68	51.02
7	GUIDE	642526832	7.59	2503	0.157	-0.087	0.057	0.089	149.186269	-5.364725	-2226.98	937.58

## 2.4 Star Slots

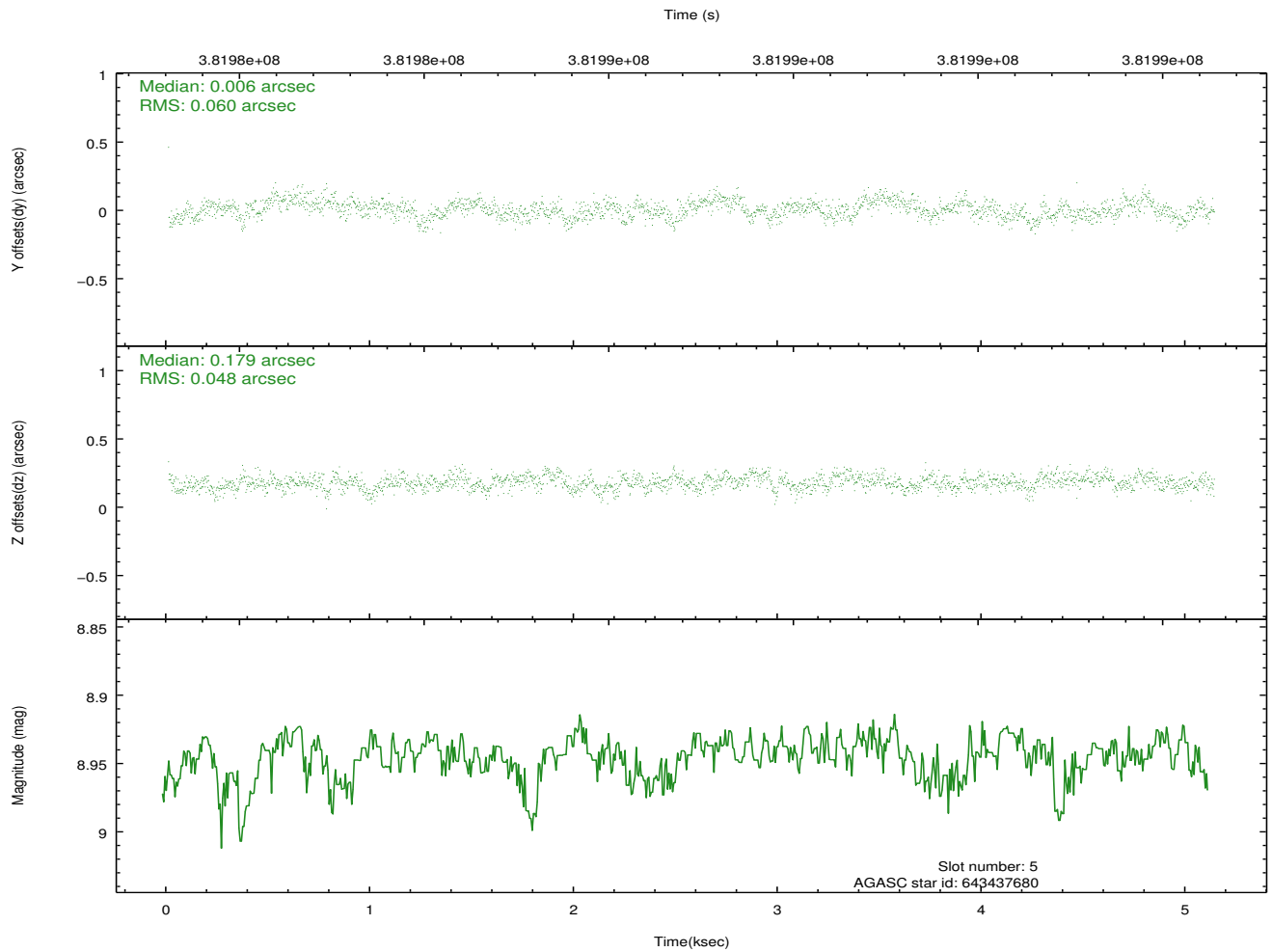
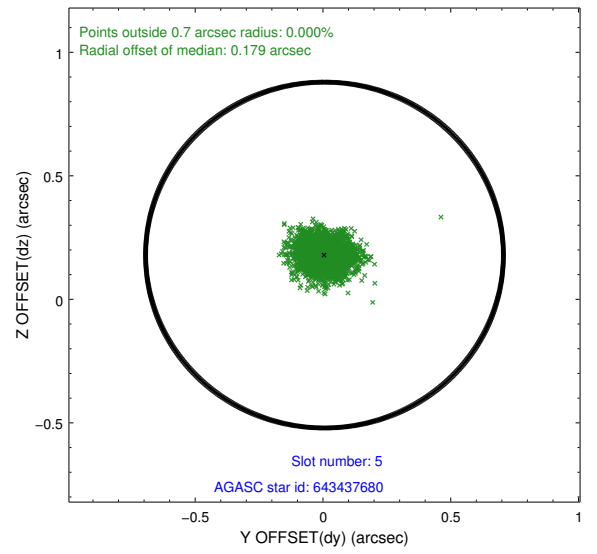
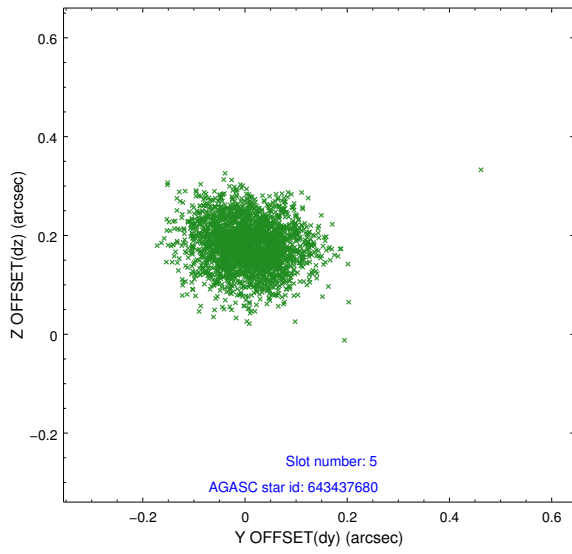
### 2.4.1 Slot 3



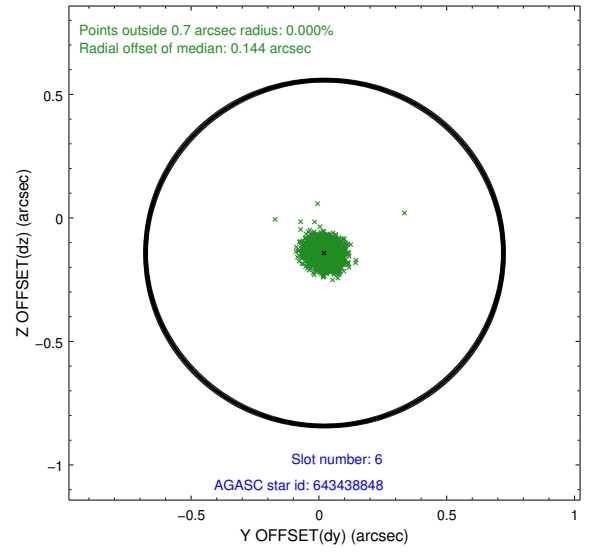
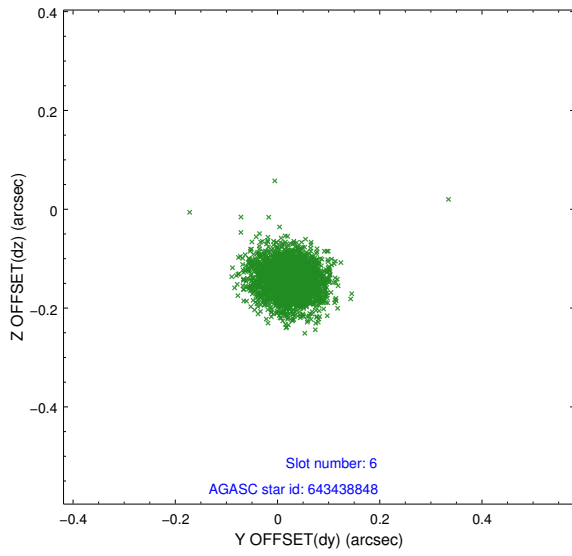
## 2.4.2 Slot 4



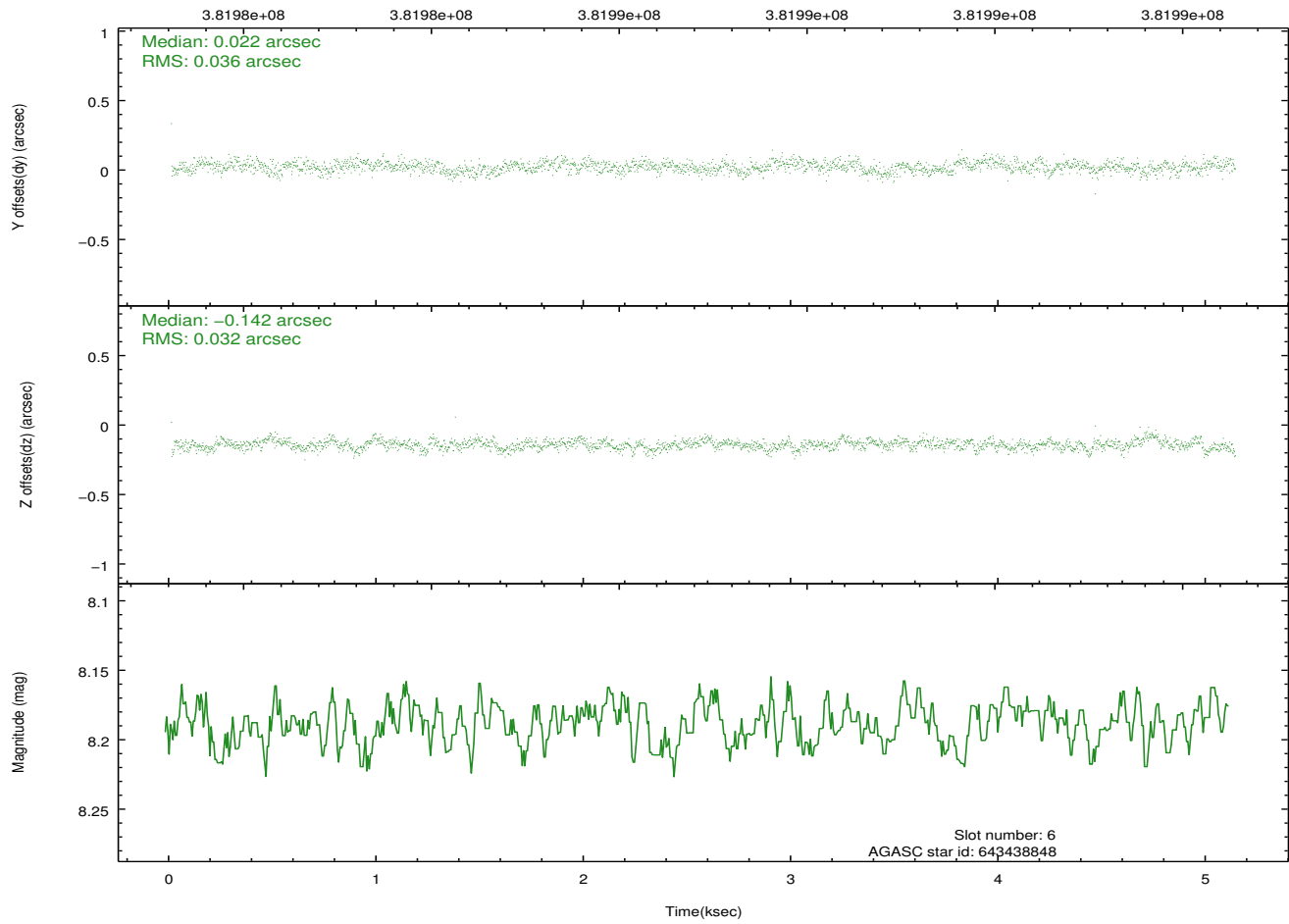
### 2.4.3 Slot 5



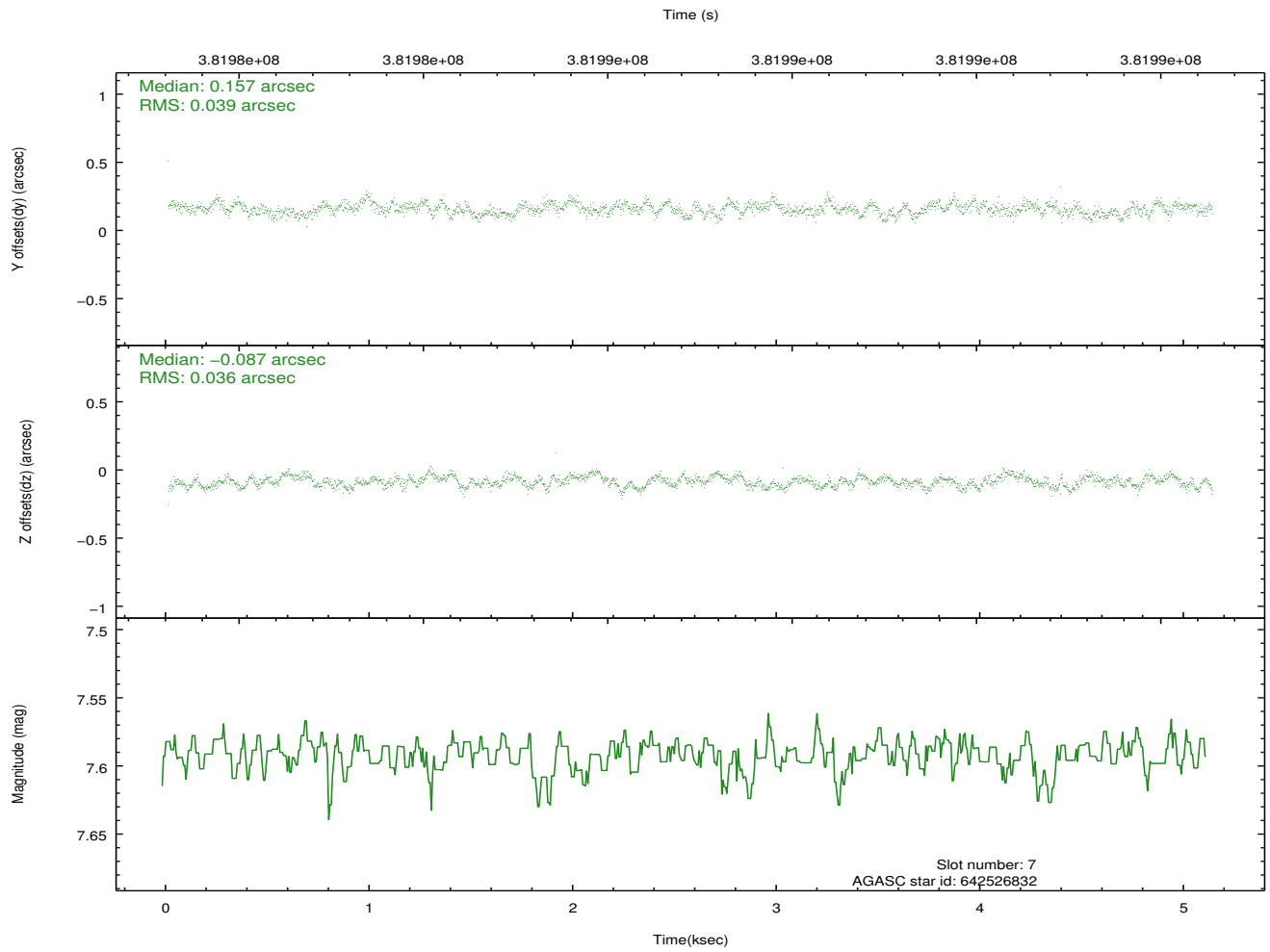
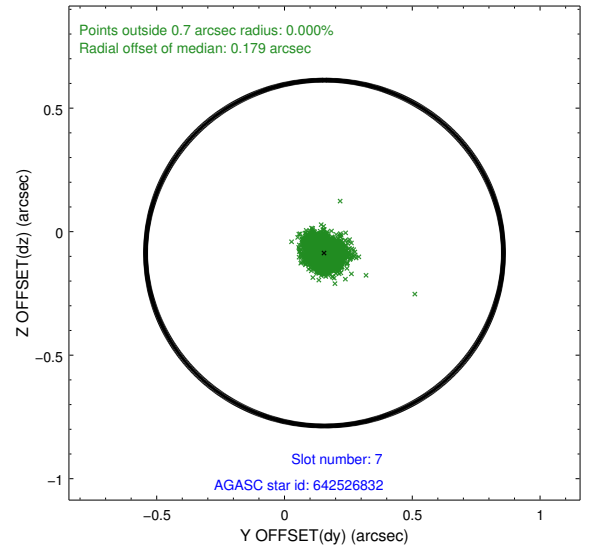
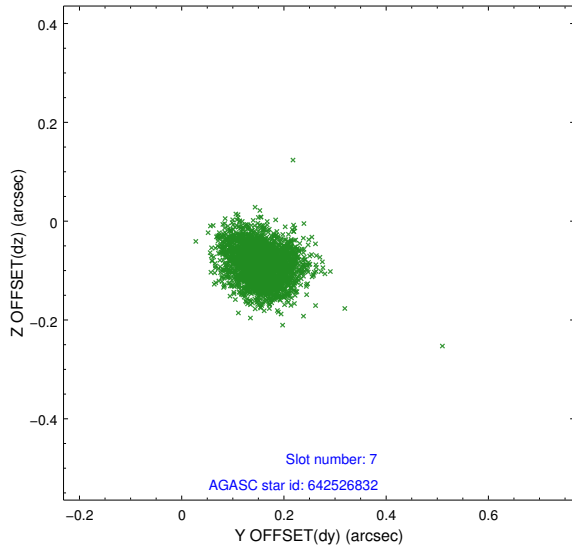
### 2.4.4 Slot 6



Time (s)

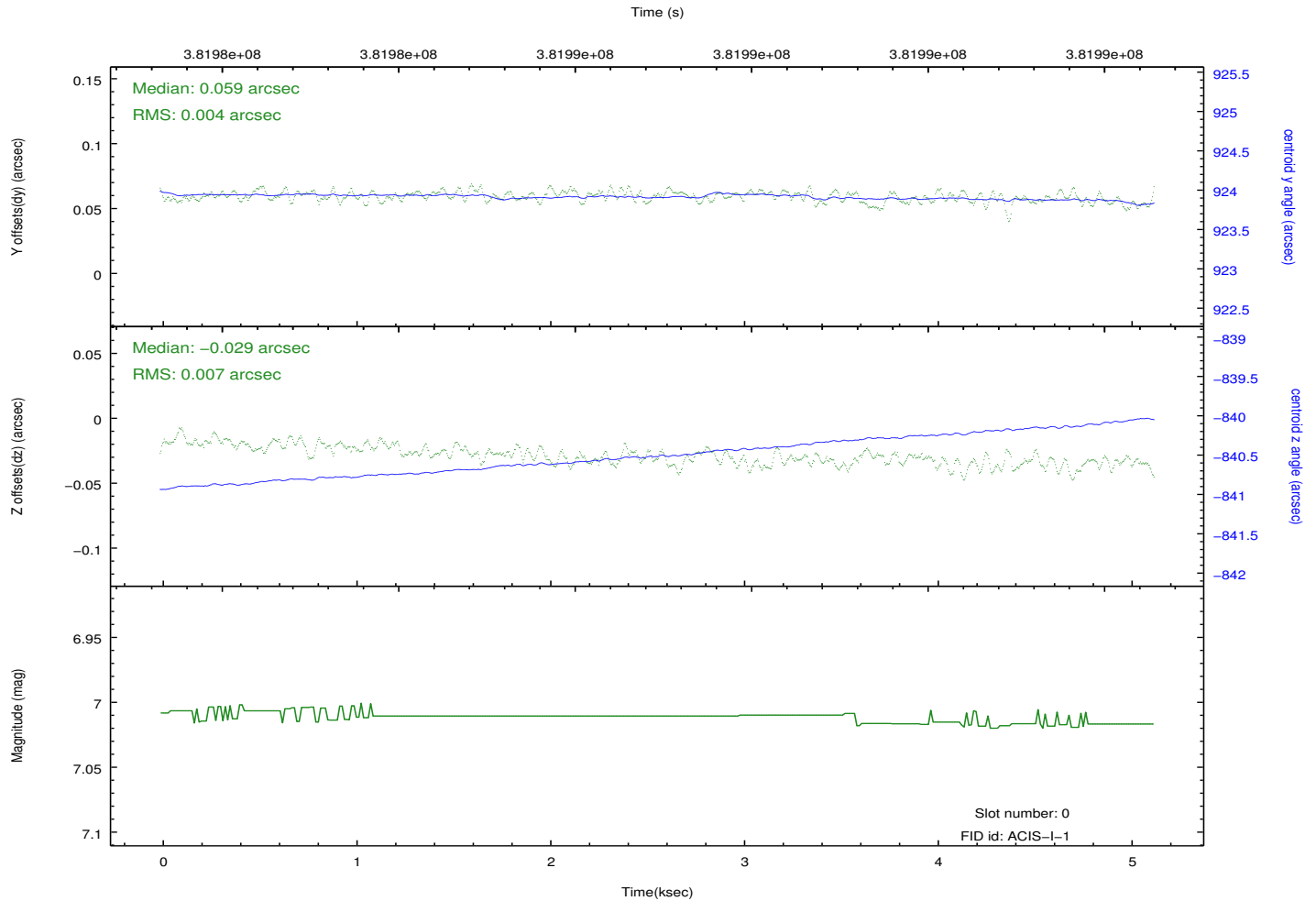
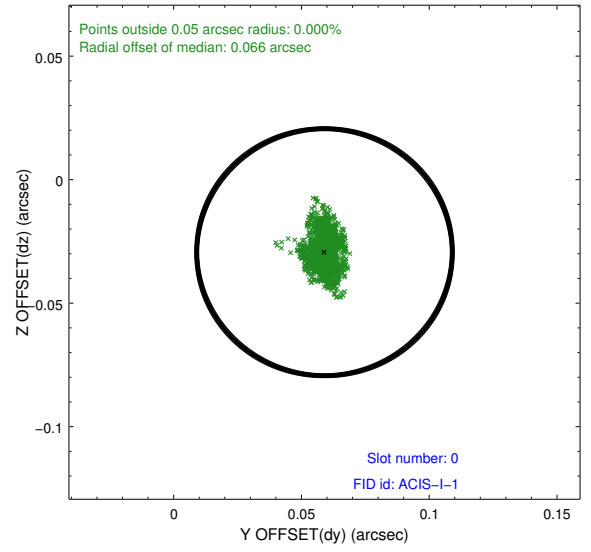
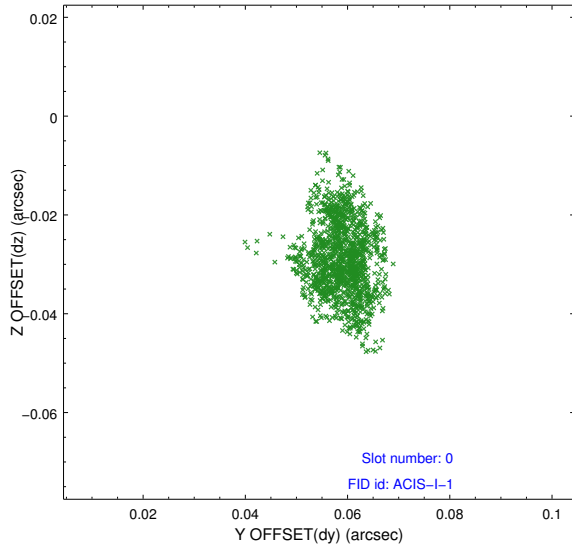


### 2.4.5 Slot 7

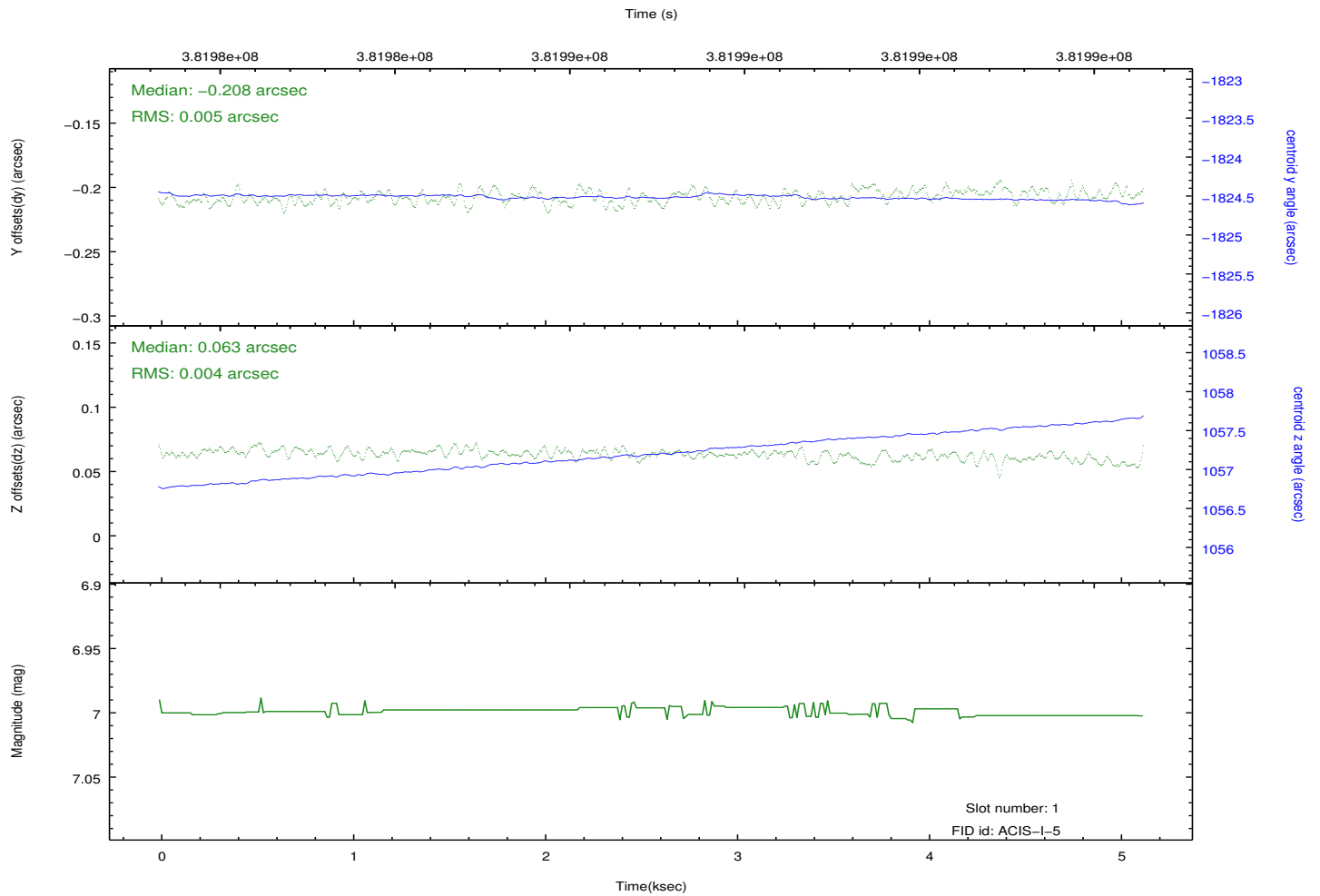
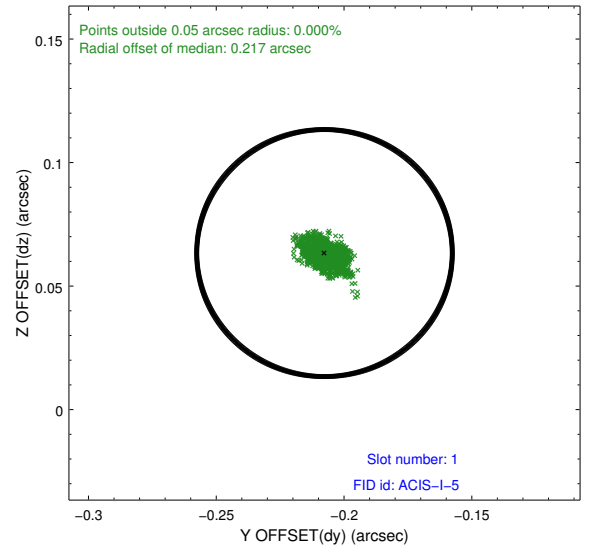
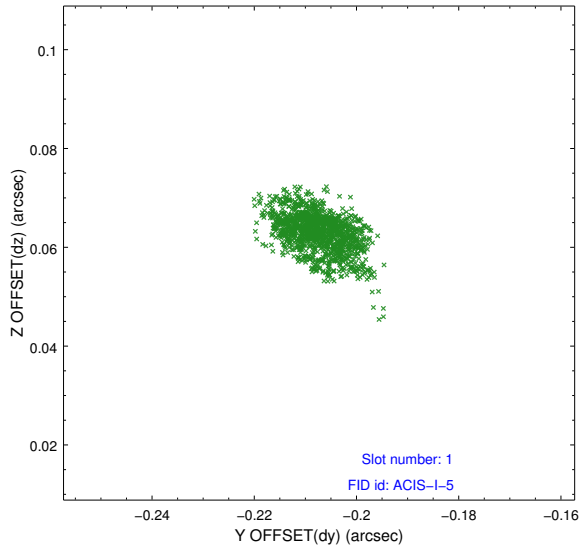


## 2.5 FID Slots

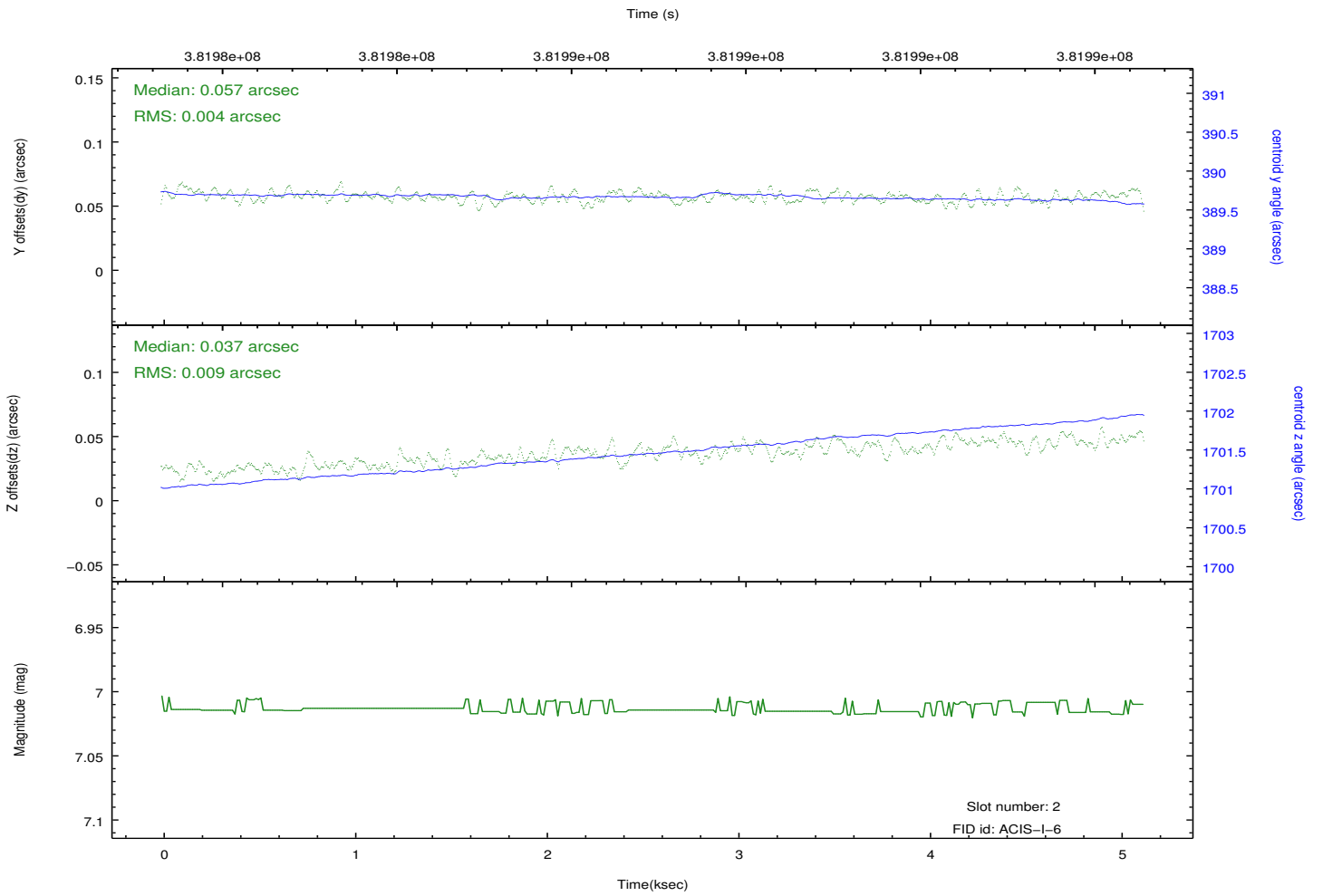
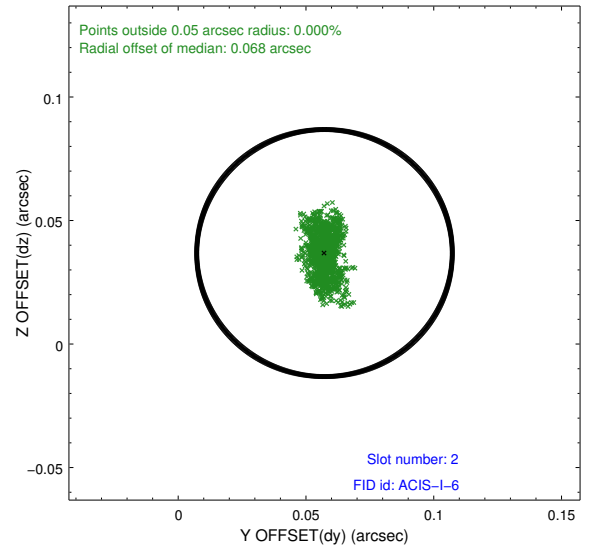
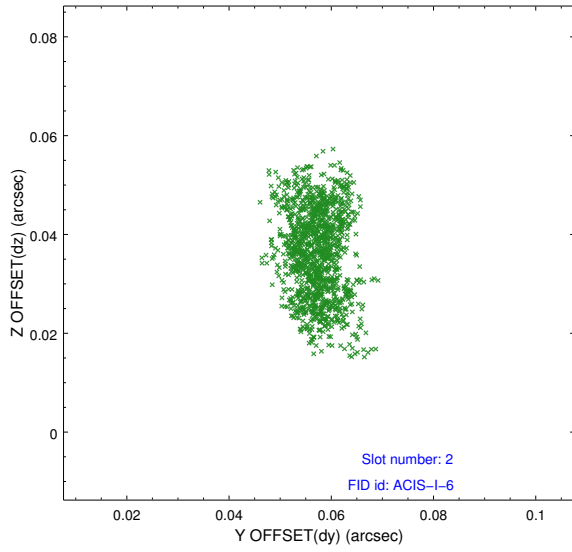
### 2.5.1 Slot 0



## 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)	2012.06.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1243000394106

## A.2 Comments