

# V&V Reference Report

## L2 ASCDS Version : 10.6

Observation 20625 - L2 Version 1  
Chandra X-Ray Center

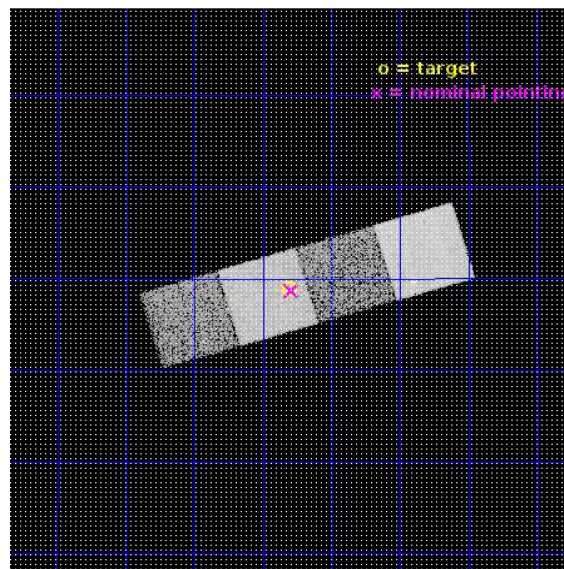
L2 Processing Date : Aug 16 2017

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# 1 Front

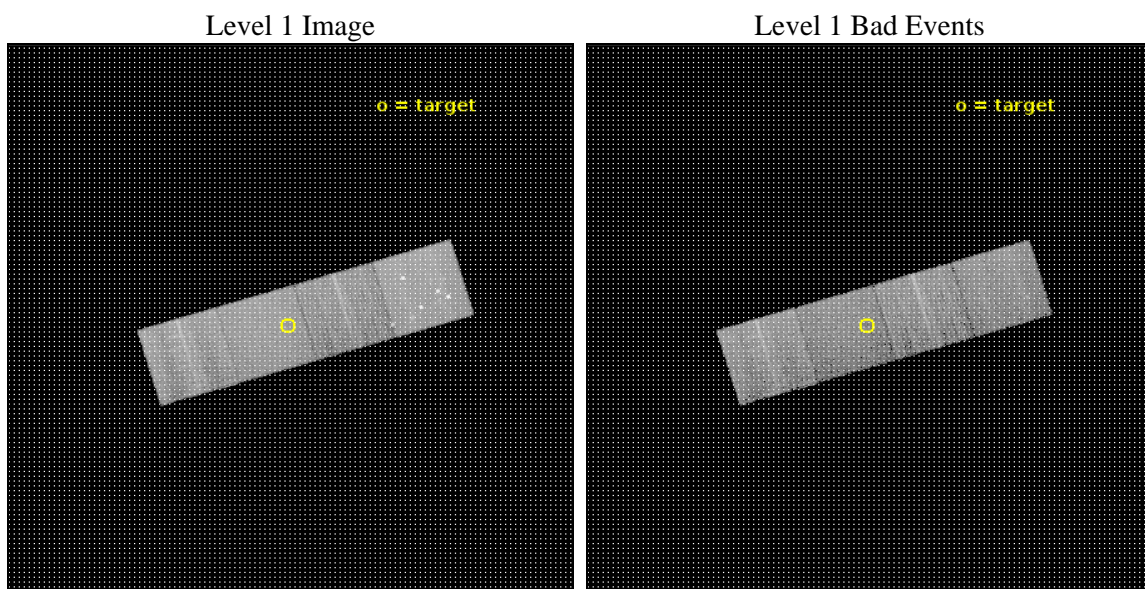
seq_num	703616	Sequence number
obs_id	20625	Observation id
title	Deep X-ray follow-up of a TDE candidate	Proposal title
observer	Matt Nicholl	Principal investigator
object	PS17dhz	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	336.701667	Observer's specified target RA [deg]
dec_targ	17.147861	Observer's specified target Dec [deg]
ra_nom	336.69810052124	Nominal RA [deg]
dec_nom	17.145037769922	Nominal Dec [deg]
roll_nom	163.15772359369	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10061.465331674	Sum of GTIs [s]
livetime	9930.0048799723	Livetime [s]
ontime5	10061.42429173	Sum of GTIs [s]
ontime6	10058.242090821	Sum of GTIs [s]
ontime7	10061.465331674	Sum of GTIs [s]
ontime8	10061.342211723	Sum of GTIs [s]
l2events	103876	Number of level 2 events



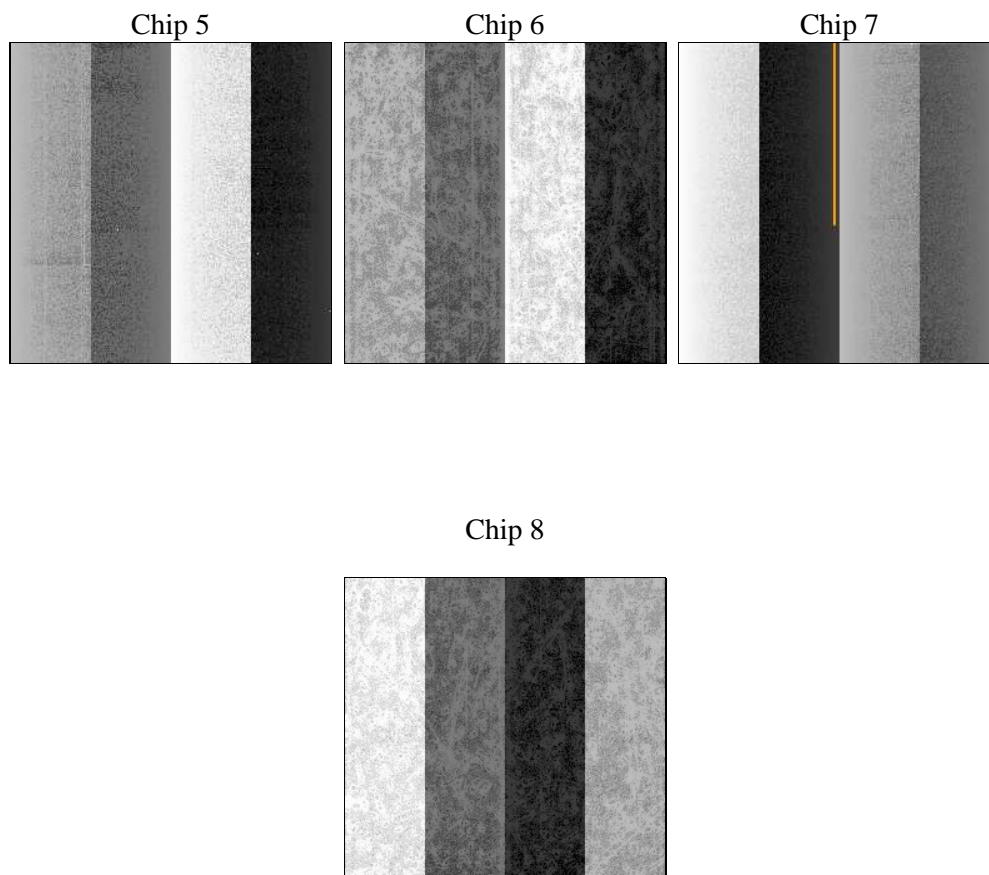
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	10061.465331674	Sum of GTIs [s]
caldsver	4.7.5	&#160	ontime5	10061.42429173	Sum of GTIs [s]
date	2017-08-16T22:38:30	Date and time of file creation	ontime6	10058.242090821	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	10061.465331674	Sum of GTIs [s]
			ontime8	10061.342211723	Sum of GTIs [s]
			l1events	384255	Number of level 1 events

### 2.1.4 Events

	<b>ccd 5</b>	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
level 1 events	125167	73617	90909	94562
rejected events	59611	65756	51949	71411
rejected %	47%	89%	57%	75%

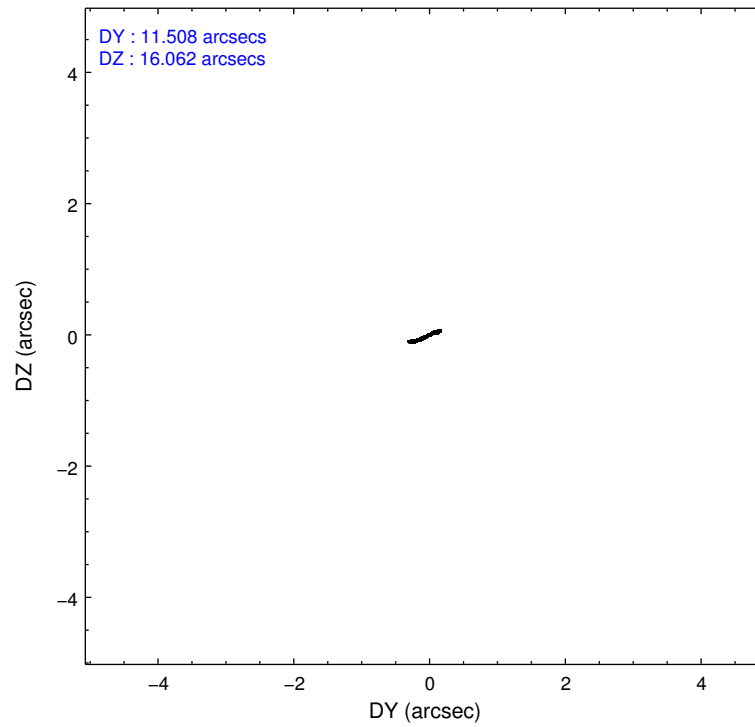
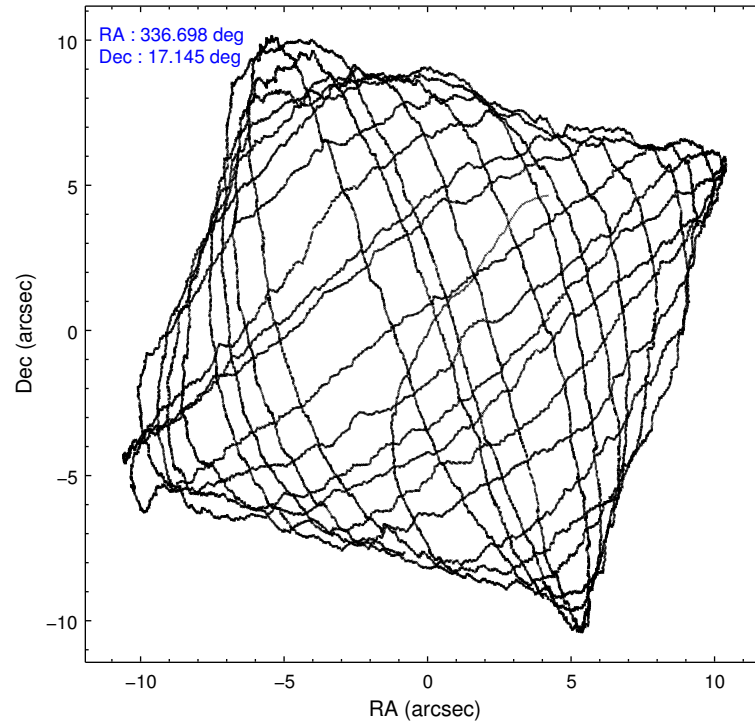
	<b>ccd 5</b>	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
grade 0 events	11616	2450	3169	6528
	9%	3%	3%	6%
grade 1 events	402	36	116	61
	0%	0%	0%	0%
grade 2 events	20420	1996	8079	5725
	16%	2%	8%	6%
grade 3 events	1700	732	3125	2365
	1%	0%	3%	2%
grade 4 events	1689	713	3030	2201
	1%	0%	3%	2%
grade 5 events	7205	3194	8953	4849
	5%	4%	9%	5%
grade 6 events	30172	1976	21585	6341
	24%	2%	23%	6%
grade 7 events	51963	62520	42852	66492
	41%	84%	47%	70%

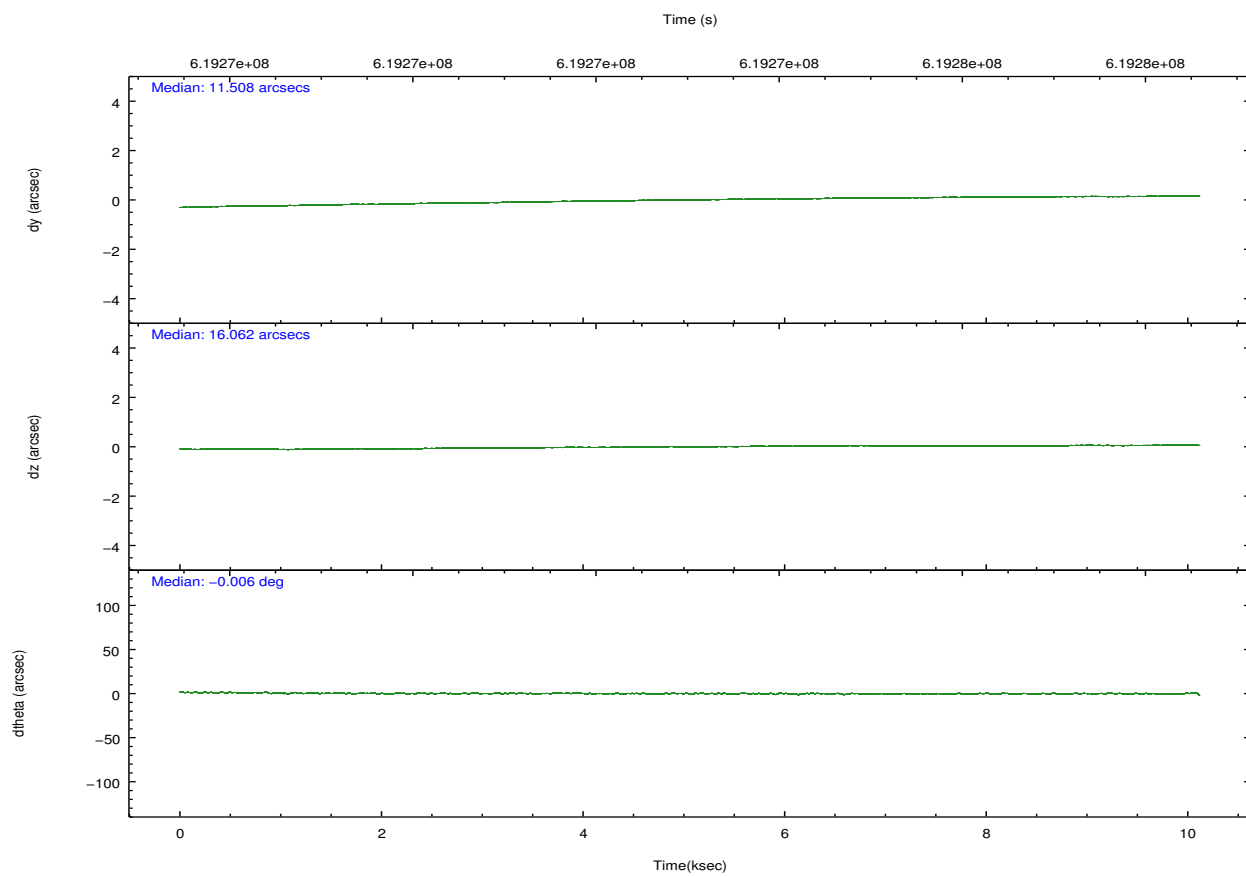
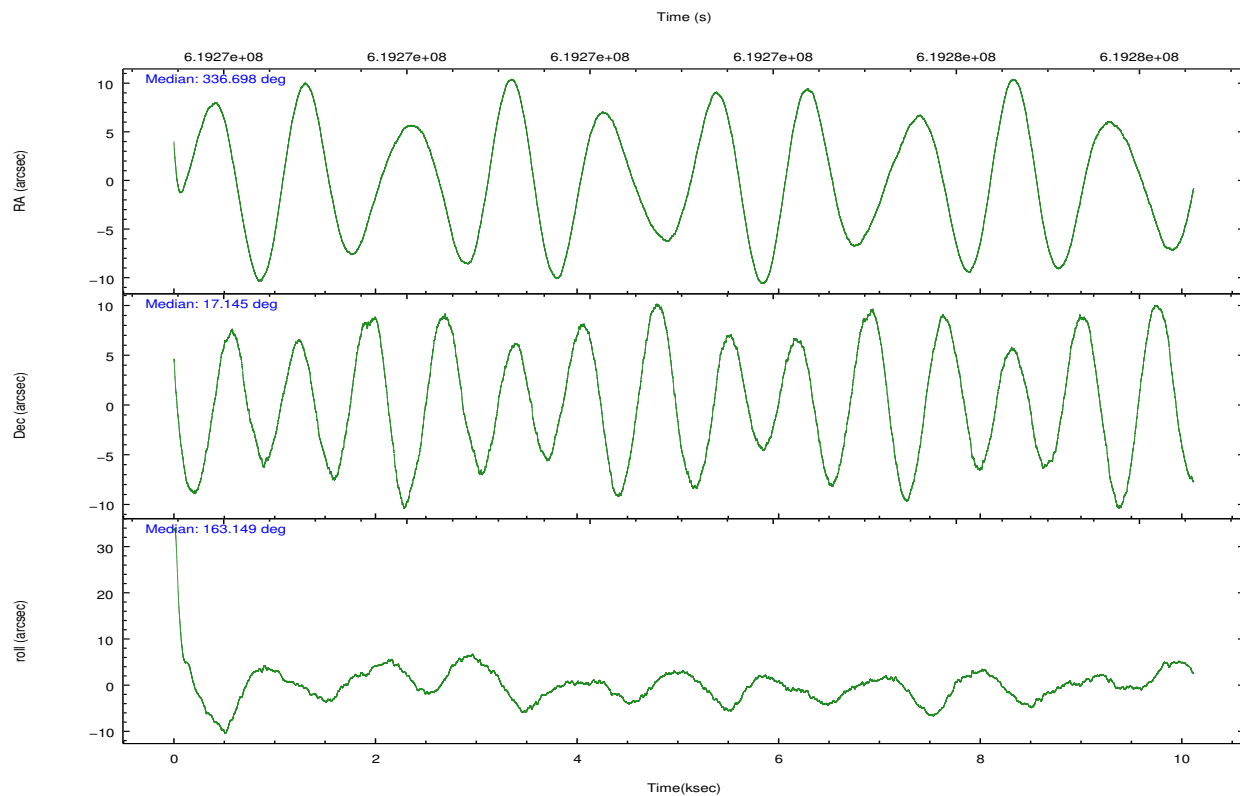


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	336.725989	336.6981005212378	CCD I2 on	N	N
[deg] Pointing Dec	17.151684	17.14503776992248	CCD I3 on	O1	N
[deg] Pointing Roll	162.992830	163.1577235936936	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	Y	Y
[s] Observation start time (MET)	619268059.184000	619266550.6429	CCD S5 on	N	N
Observation start date	2017-08-16T10:53:10	2017-08-16T10:29:10	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	619278059.184000	619279115.60614	On-chip summing requested	N	N
Observation end date	2017-08-16T13:39:50	2017-08-16T13:58:35	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



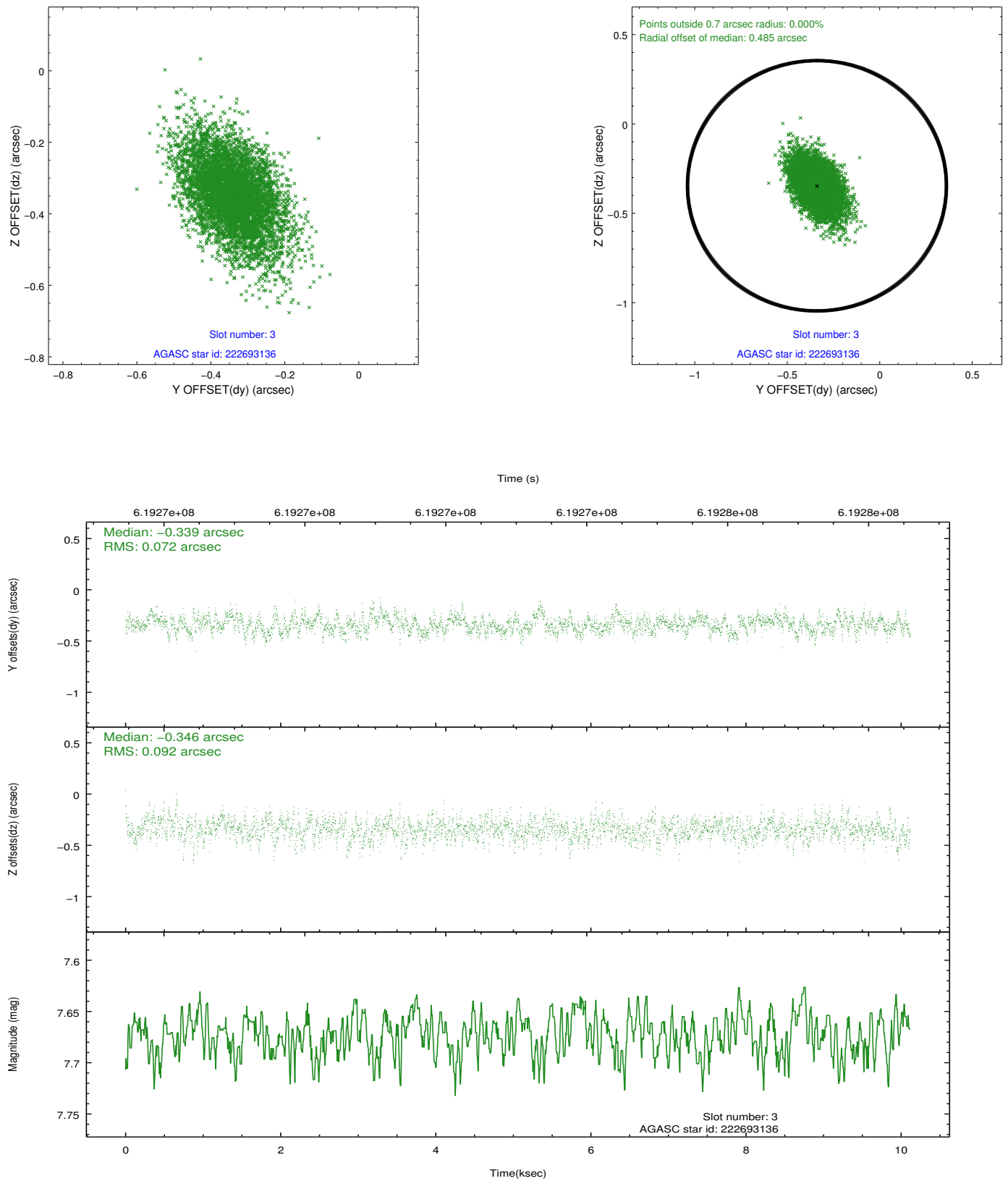


### Slot Statistics

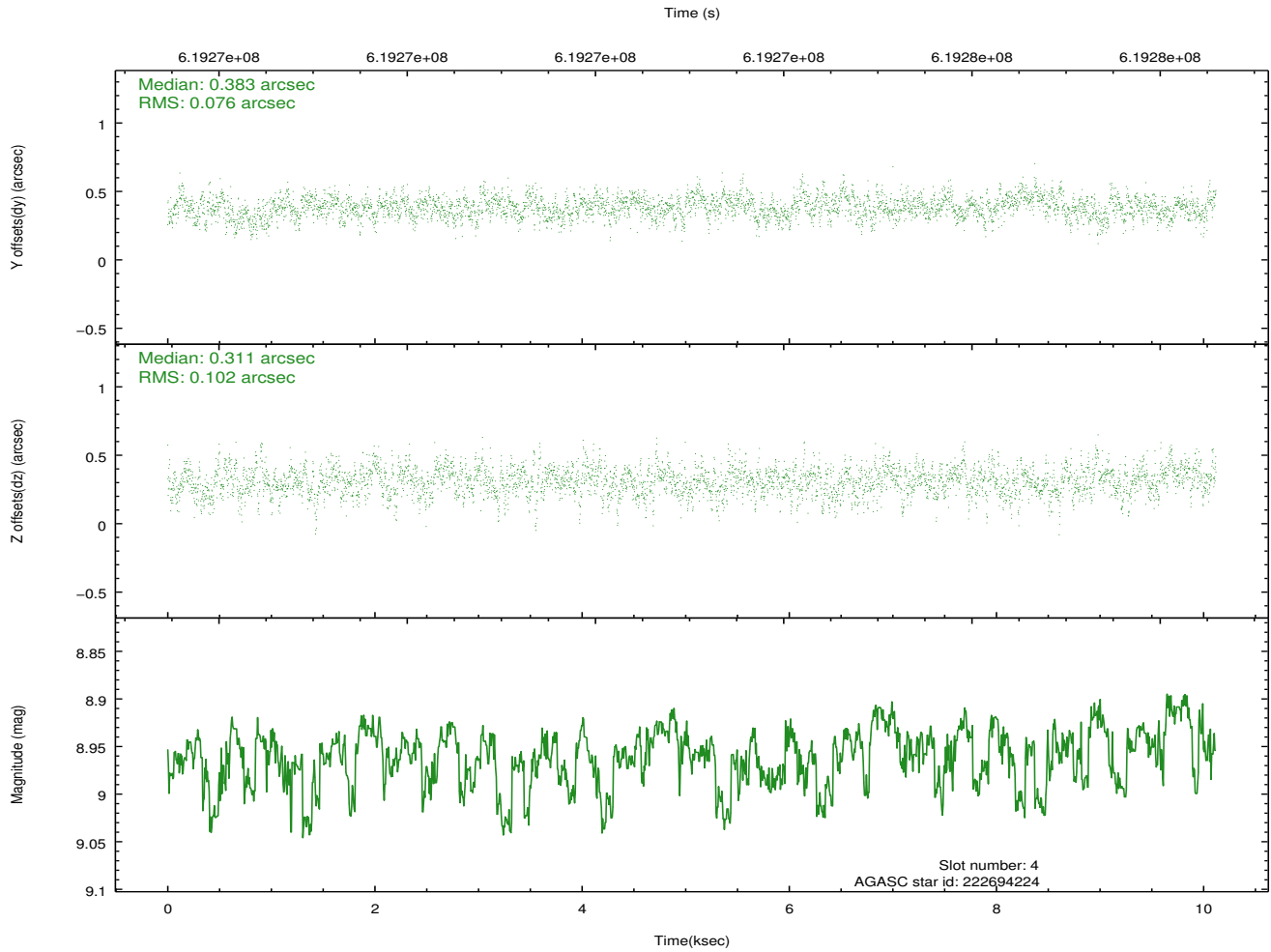
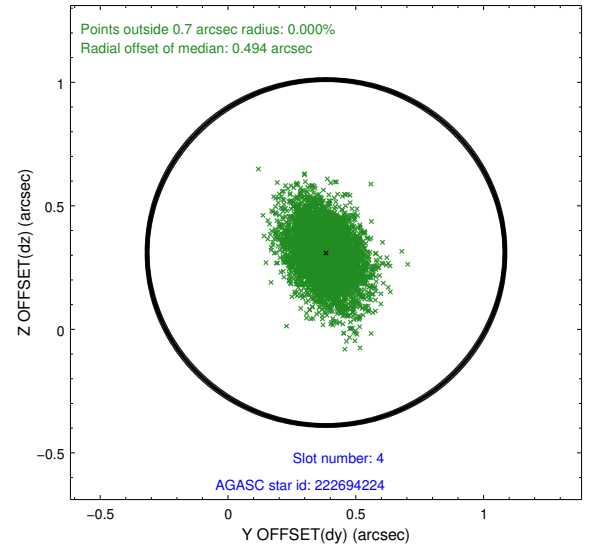
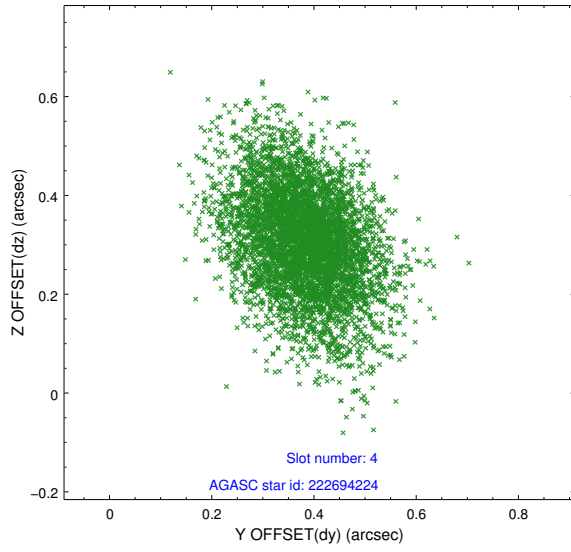
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	2468	-0.164	-0.041	0.009	0.014	0.000000	0.000000	-764.48	-1737.47
1	FID		ACIS-S-4	7.23	2467	0.400	0.090	0.006	0.011	0.000000	0.000000	2149.08	170.68
2	FID		ACIS-S-5	7.23	2468	-0.267	-0.040	0.008	0.013	0.000000	0.000000	-1816.80	164.71
3	GUIDE	used	222693136	7.67	4937	-0.339	-0.346	0.119	0.208	336.053572	17.017460	2072.95	1135.25
4	GUIDE	used	222694224	8.96	4932	0.383	0.311	0.133	0.229	337.203441	17.132162	-1589.76	-414.92
5	GUIDE	used	222696704	8.41	4937	0.117	0.168	0.138	0.235	336.227191	17.763962	2280.30	-1609.92
6	GUIDE	used	222698248	8.38	4935	-0.164	0.192	0.133	0.227	336.733633	17.523482	367.17	-1287.78
7	GUIDE	used	222174728	9.31	4931	0.005	-0.312	0.197	0.343	336.754030	16.509600	-769.09	2182.26

## 2.4 Star Slots

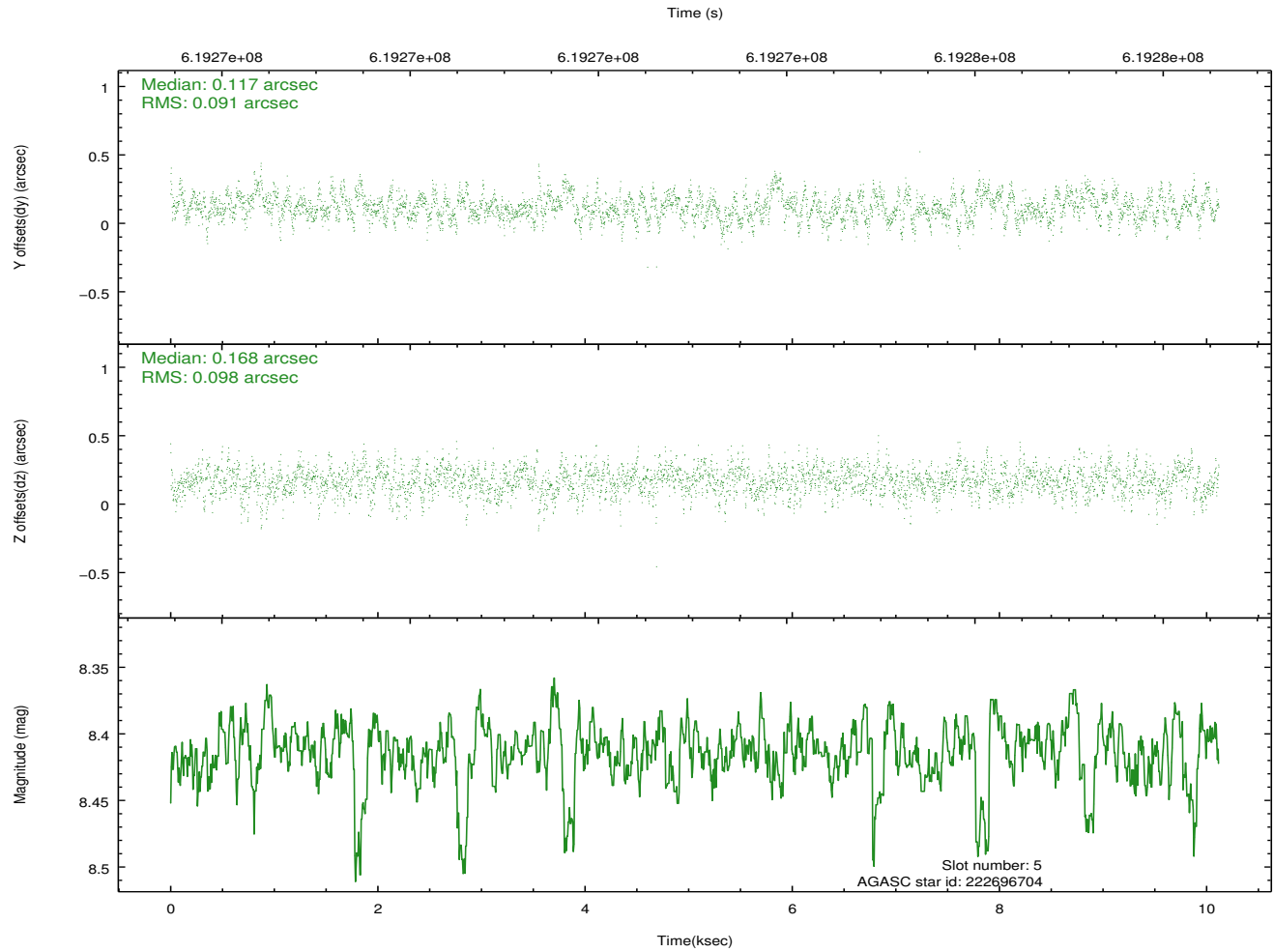
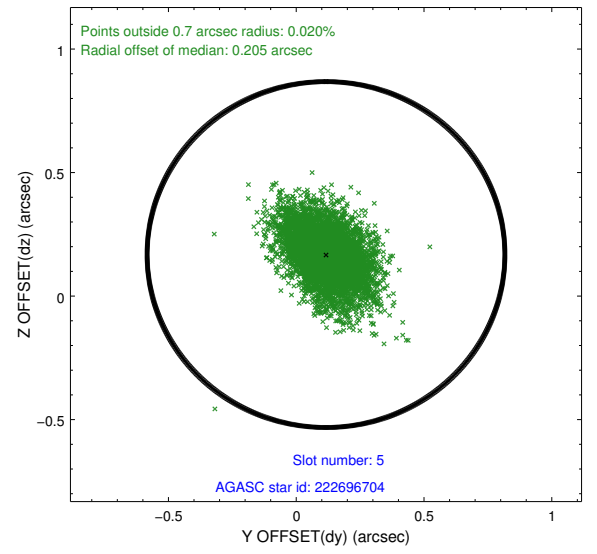
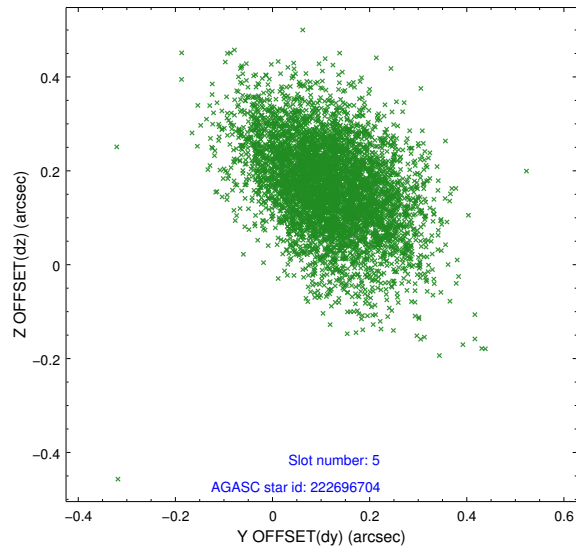
### 2.4.1 Slot 3



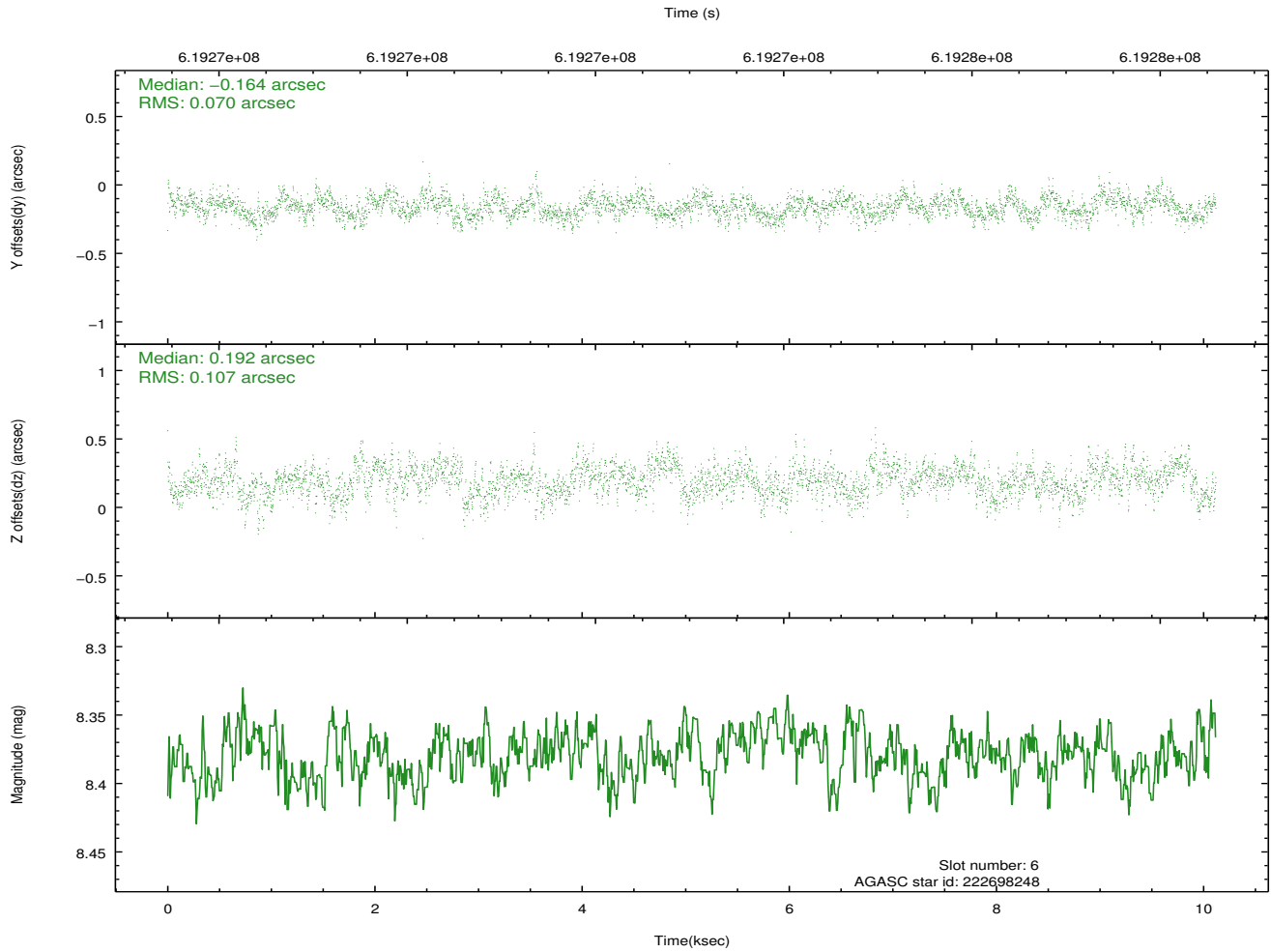
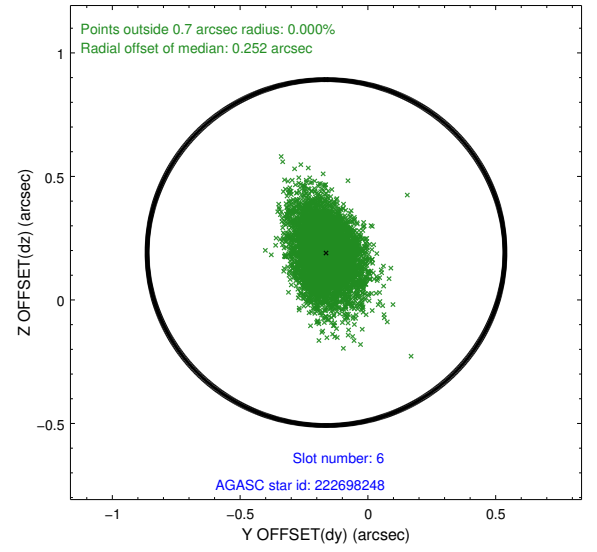
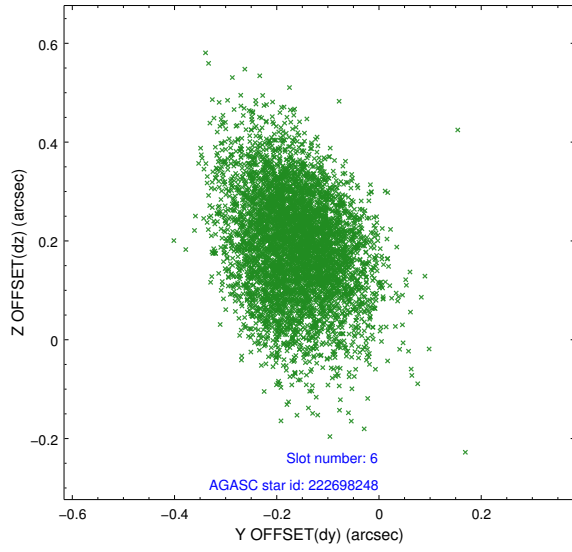
## 2.4.2 Slot 4



### 2.4.3 Slot 5

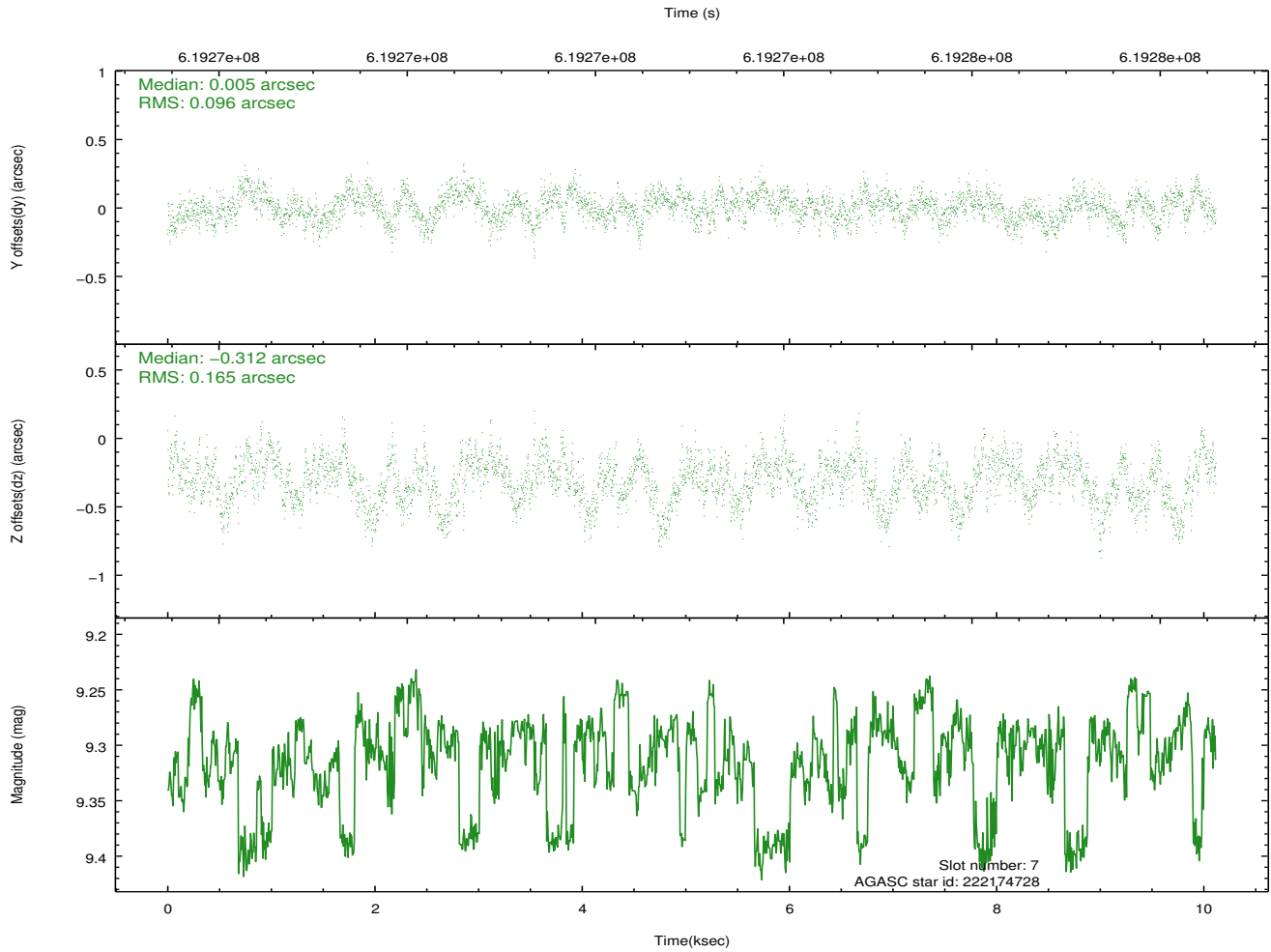
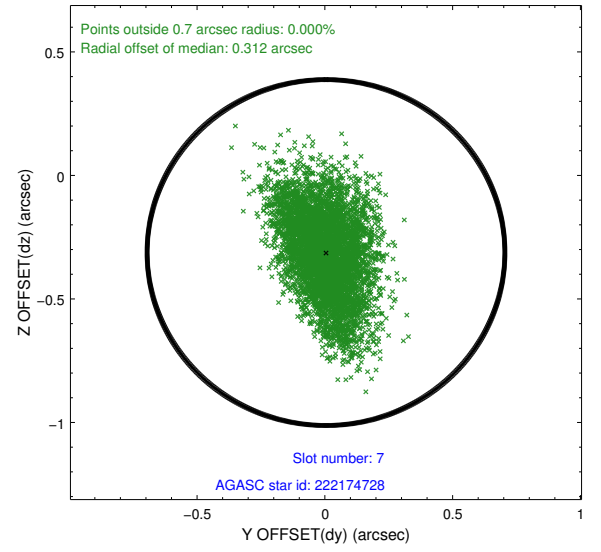
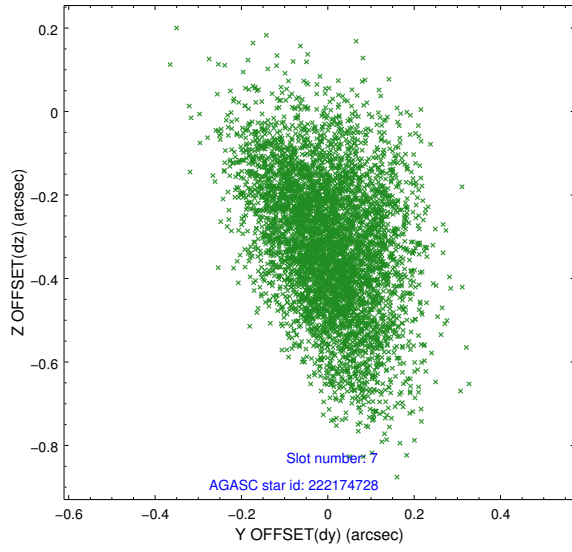


## 2.4.4 Slot 6



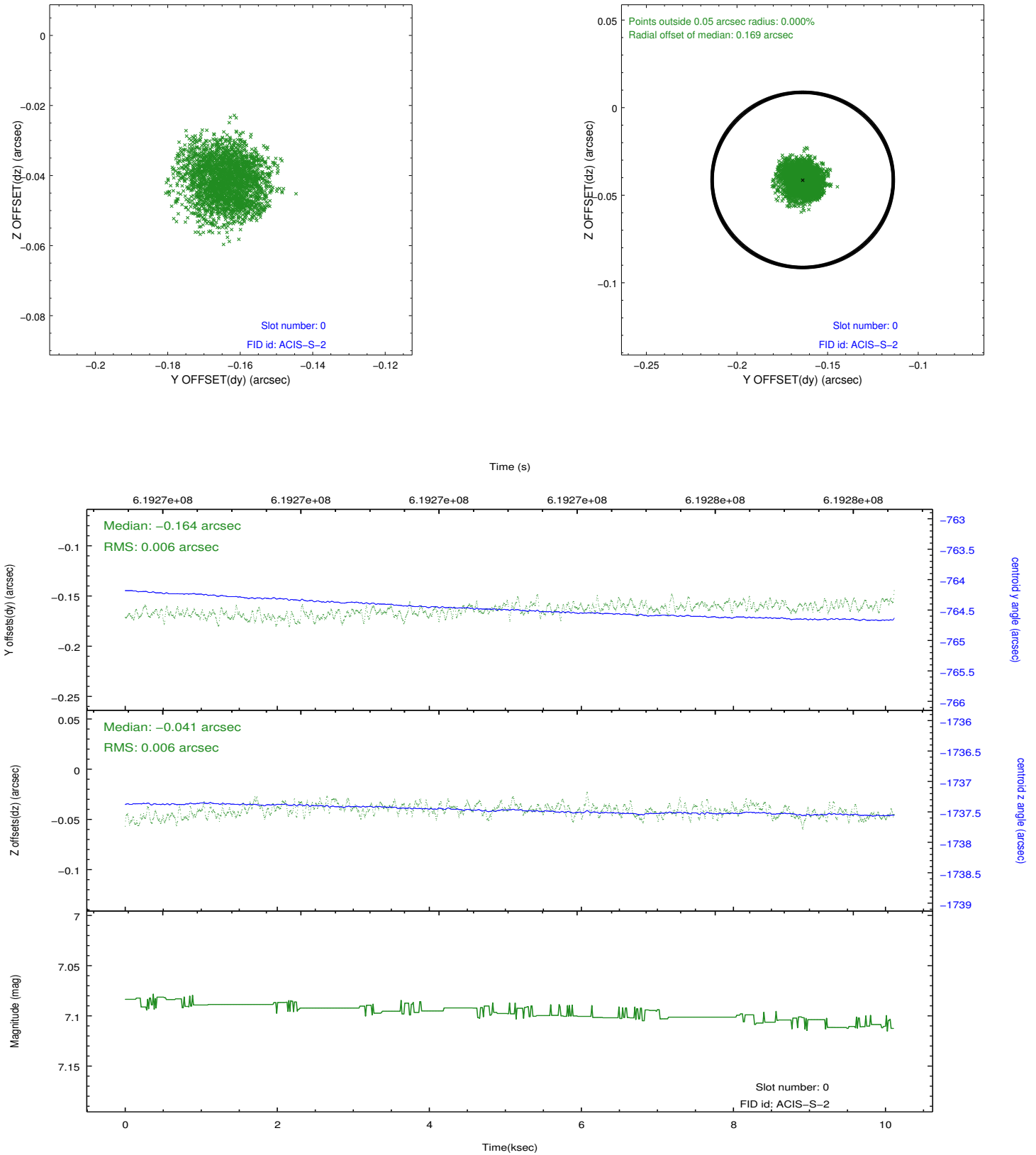


## 2.4.5 Slot 7

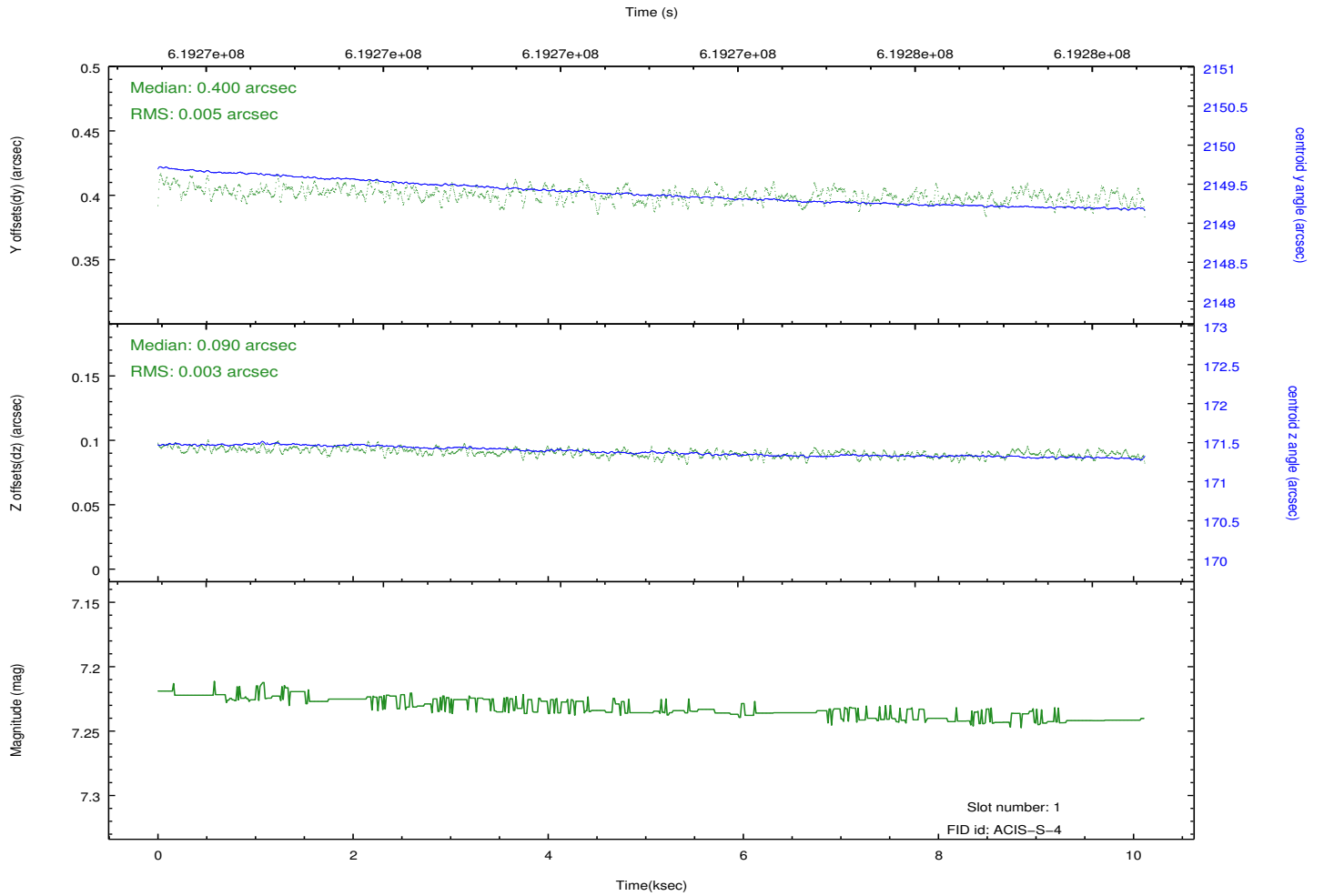
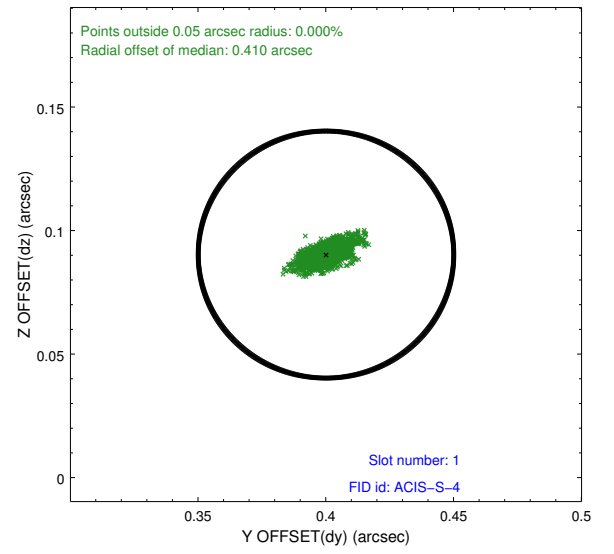
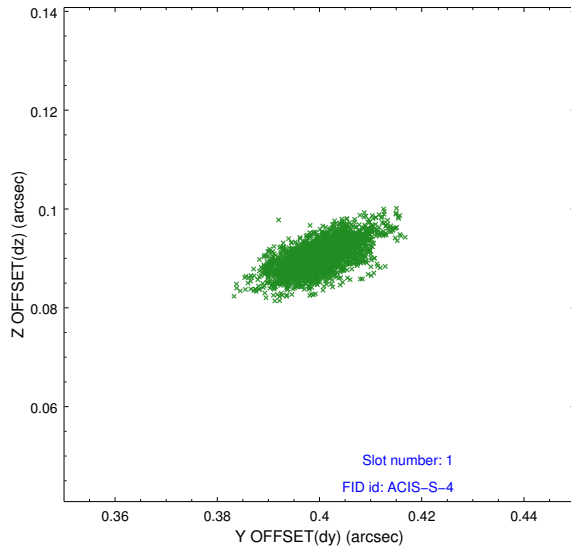


## 2.5 FID Slots

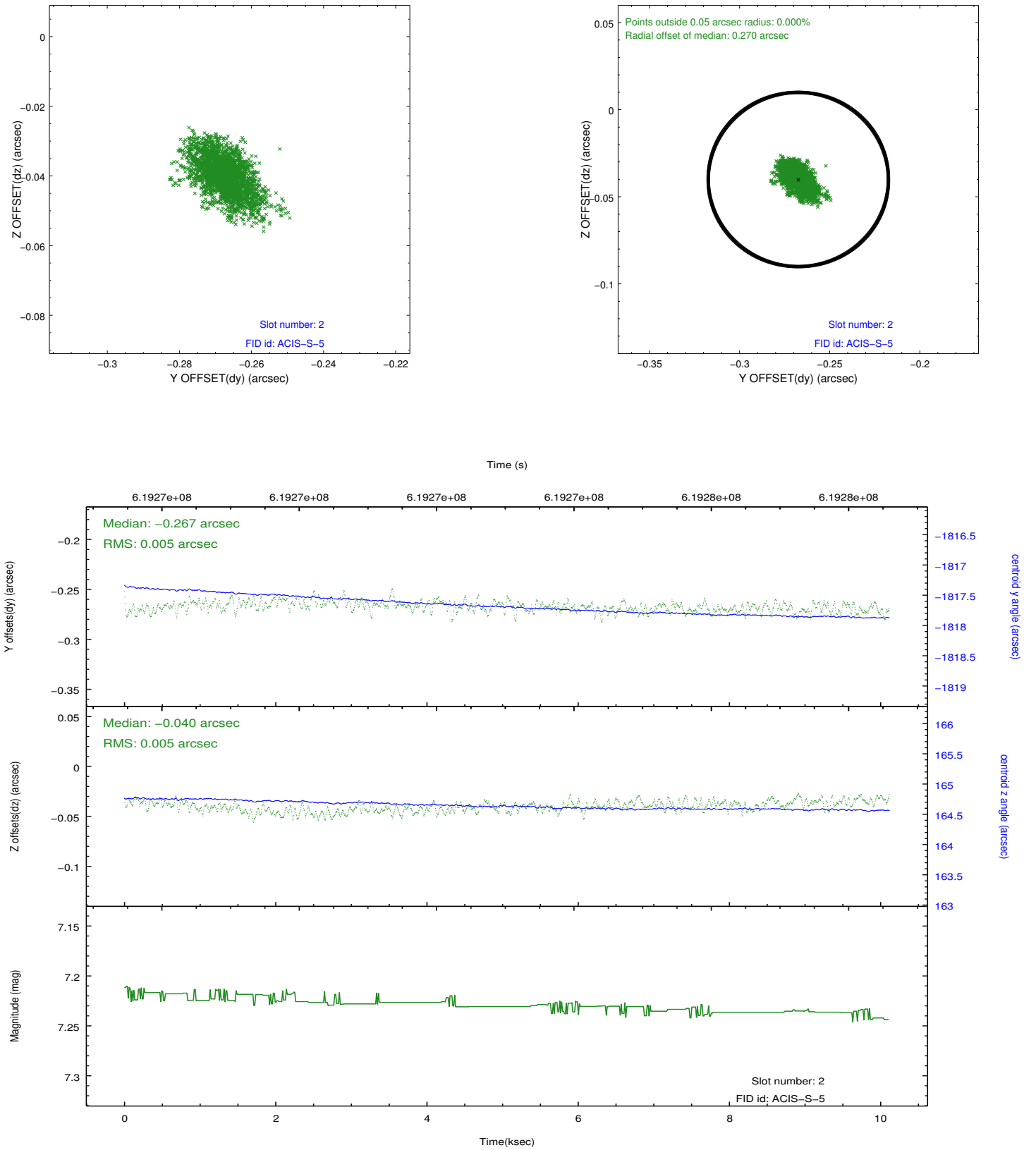
### 2.5.1 Slot 0



## 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)	2017.08.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.061465331674

### A.2 Comments

One optional chip was dropped.