

# V&V Reference Report

## L2 ASCDS Version : 10.4

Observation 17316 - L2 Version 1  
Chandra X-Ray Center

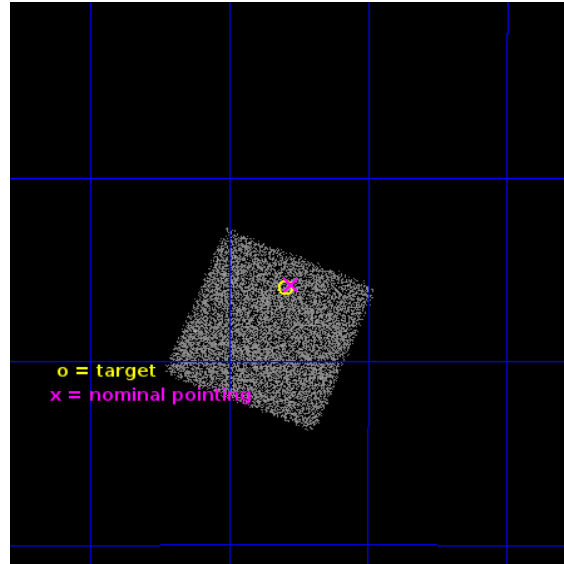
L2 Processing Date : Jun 5 2015

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# 1 Front

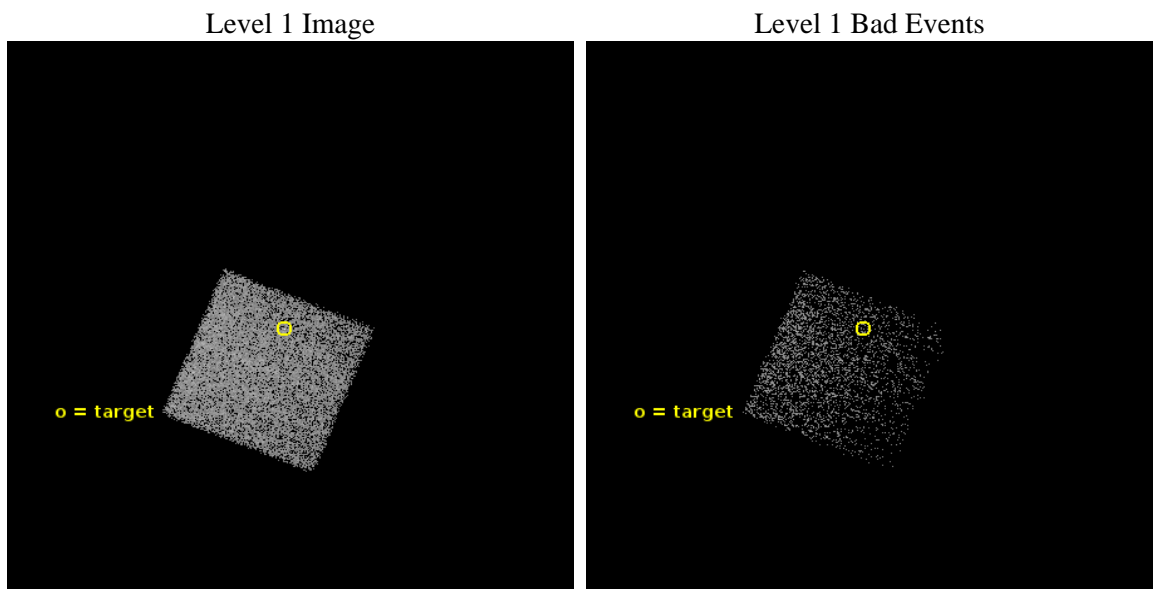
seq_num	201016	Sequence number
obs_id	17316	Observation id
title	The MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-mass Exoplanetary Systems	Proposal title
observer	Dr. Kevin France	Principal investigator
object	GJ876	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	343.32375	Observer's specified target RA [deg]
dec_targ	-14.2665	Observer's specified target Dec [deg]
ra_nom	343.318848581	Nominal RA [deg]
dec_nom	-14.263884141373	Nominal Dec [deg]
roll_nom	112.15641976979	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10026.0	Sum of GTIs [s]
livetime	9890.695288454	Livetime [s]
ontime7	10026.0	Sum of GTIs [s]
l2events	16320	Number of level 2 events



## 2 OBI

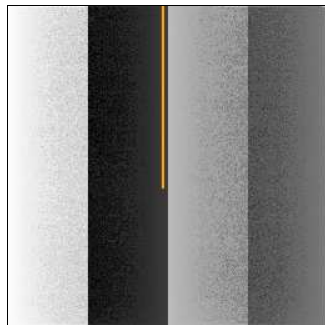
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	10026.0	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime7	10026.0	Sum of GTIs [s]
date	2015-06-05T22:51:07	Date and time of file creation	l1events	31464	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	31464
rejected events	14544
rejected %	46%

	<b>ccd 7</b>
grade 0 events	2147
	6%
grade 1 events	78
	0%
grade 2 events	4194
	13%
grade 3 events	1599
	5%
grade 4 events	1612
	5%
grade 5 events	3166
	10%
grade 6 events	7868
	25%
grade 7 events	10800
	34%

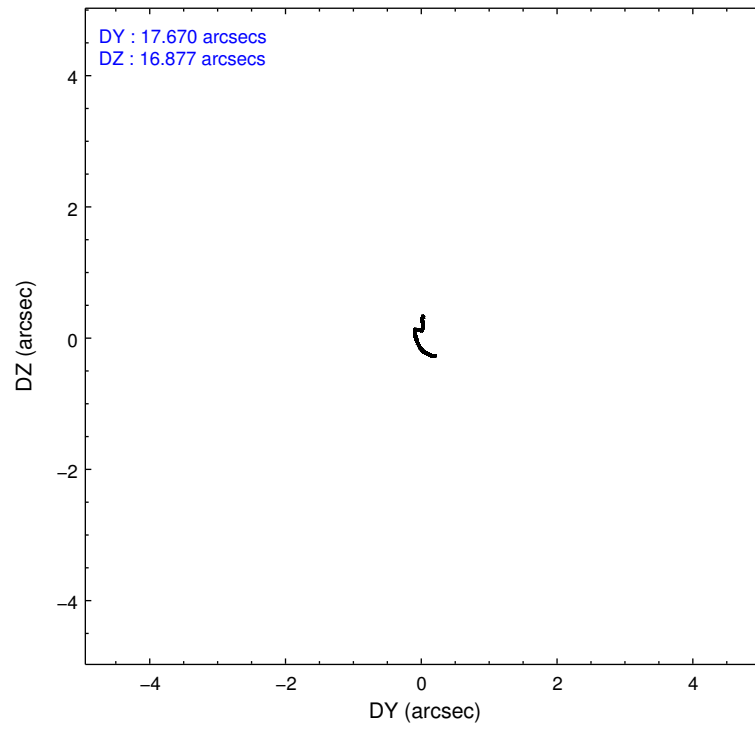
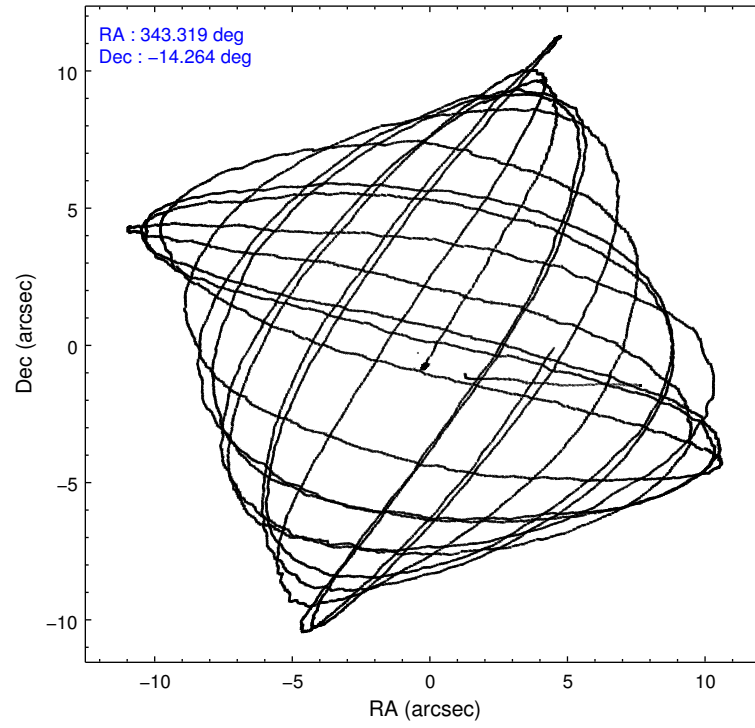


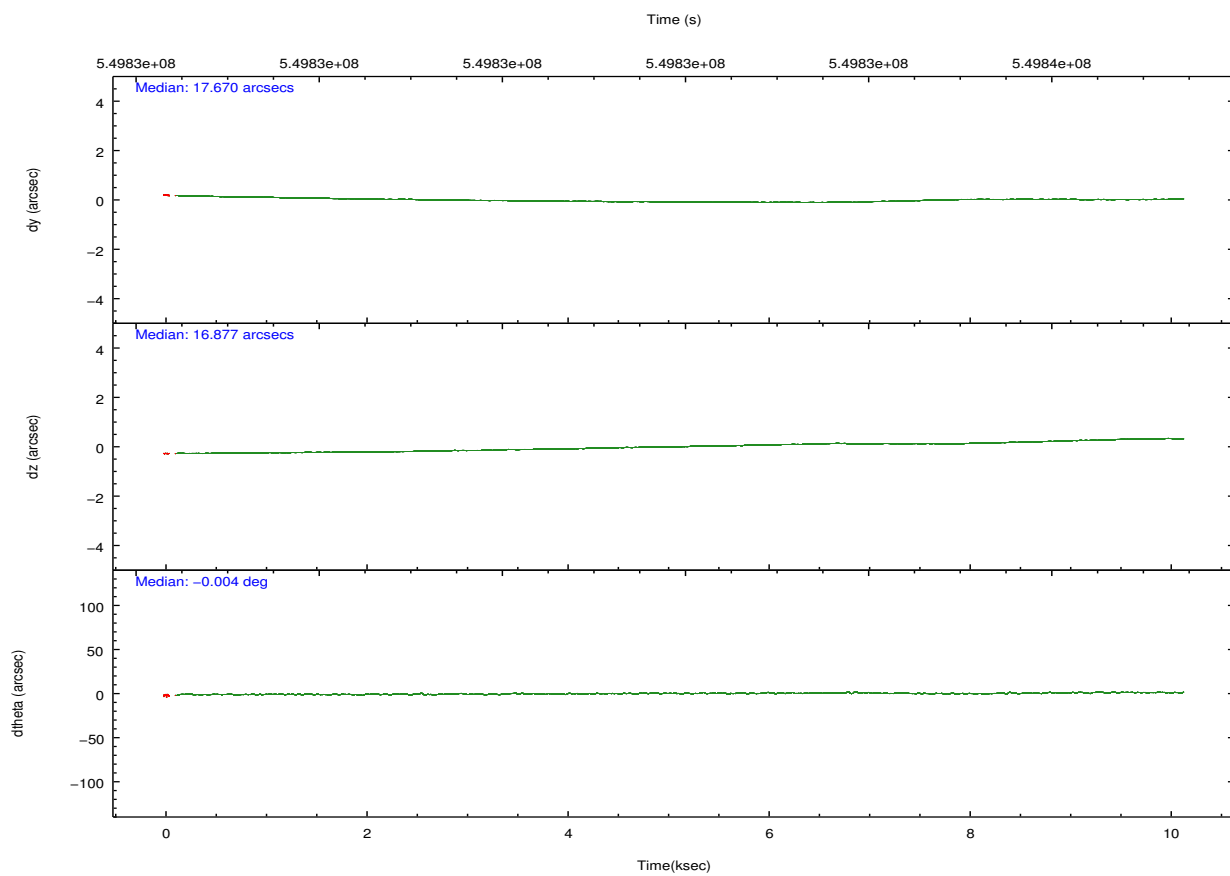
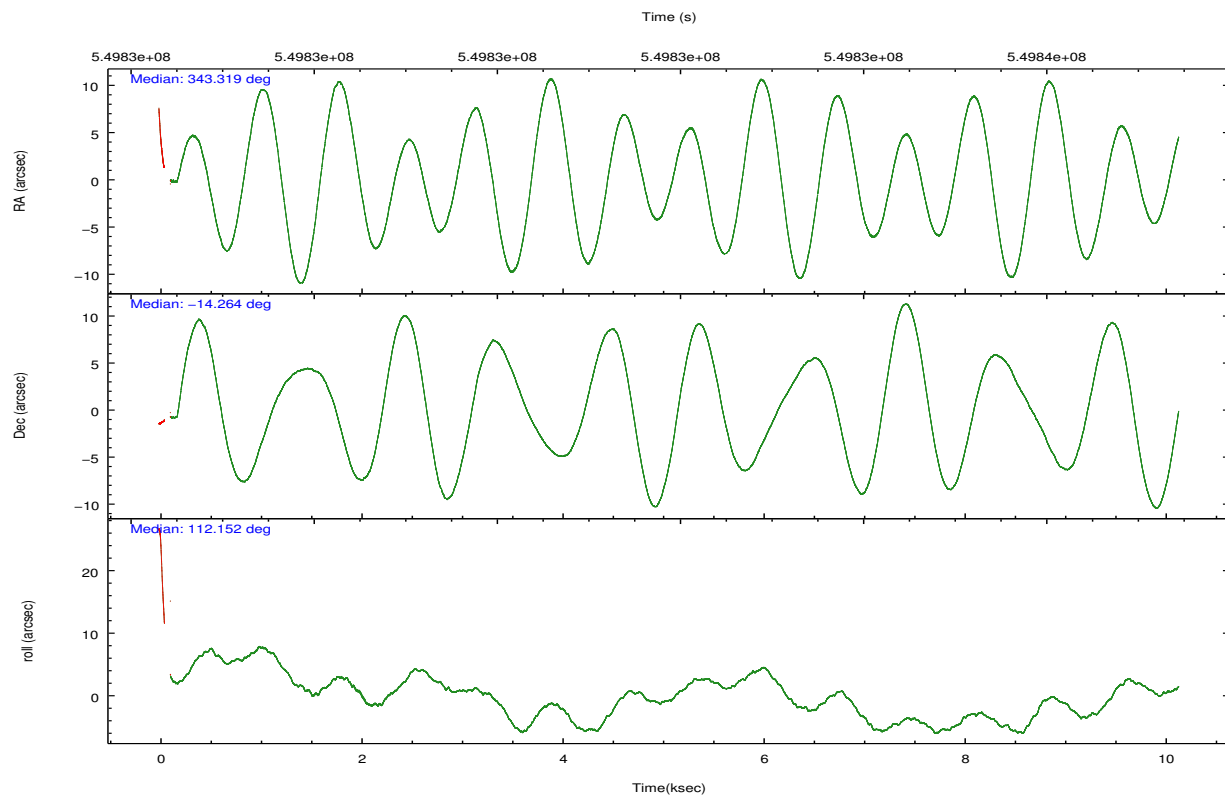
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	343.341430	343.318848580999
[deg] Pointing Dec	-14.280425	-14.26388414137268
[deg] Pointing Roll	112.005336	112.1564197697853
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	549826941.184000	549825572.66255
Observation start date	2015-06-04T17:41:14	2015-06-04T17:19:32
[s] Observation end time (MET)	549836941.184000	549837740.4382401
Observation end date	2015-06-04T20:27:54	2015-06-04T20:42:20
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3

## 2.3 Aspect



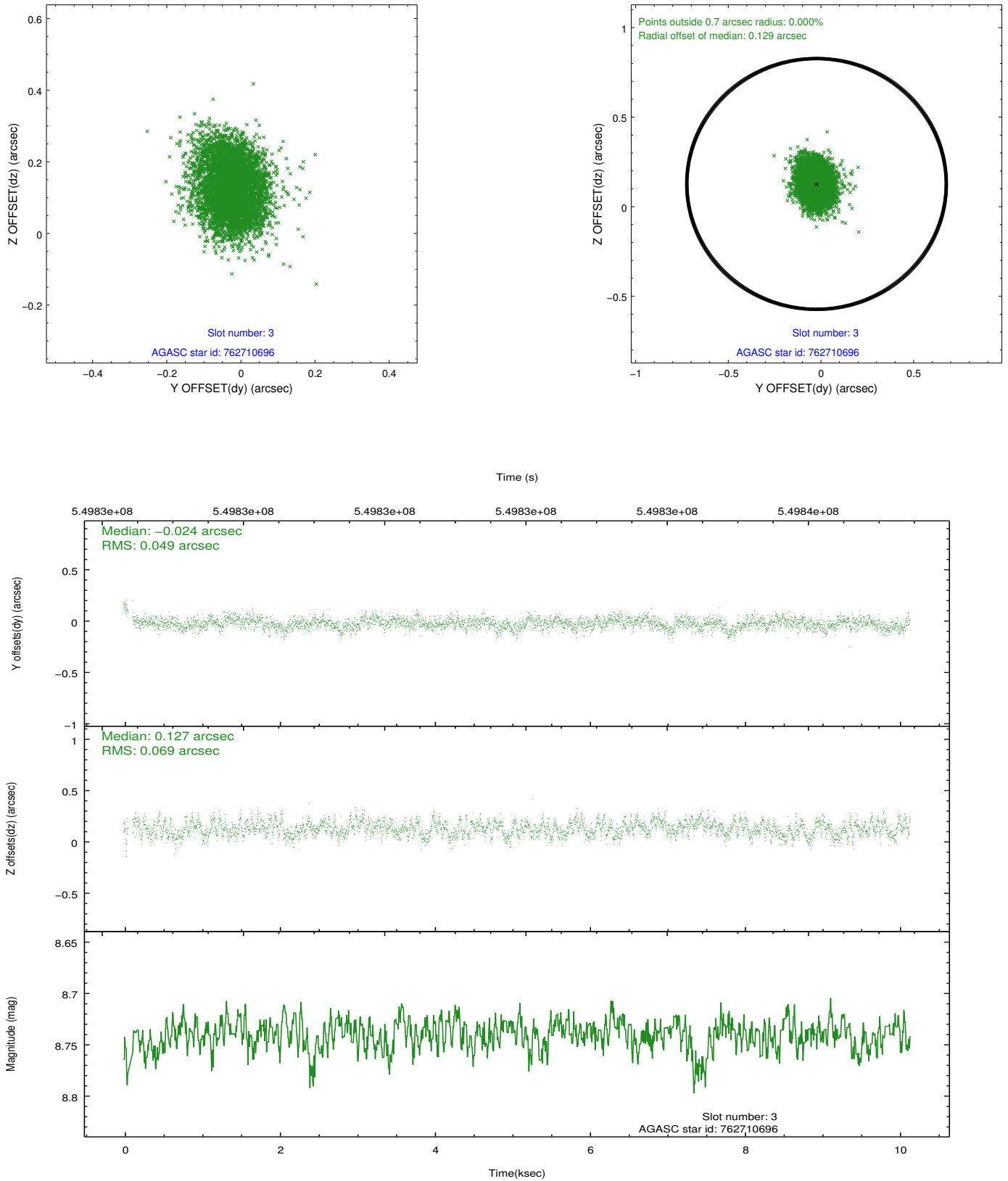


### Slot Statistics

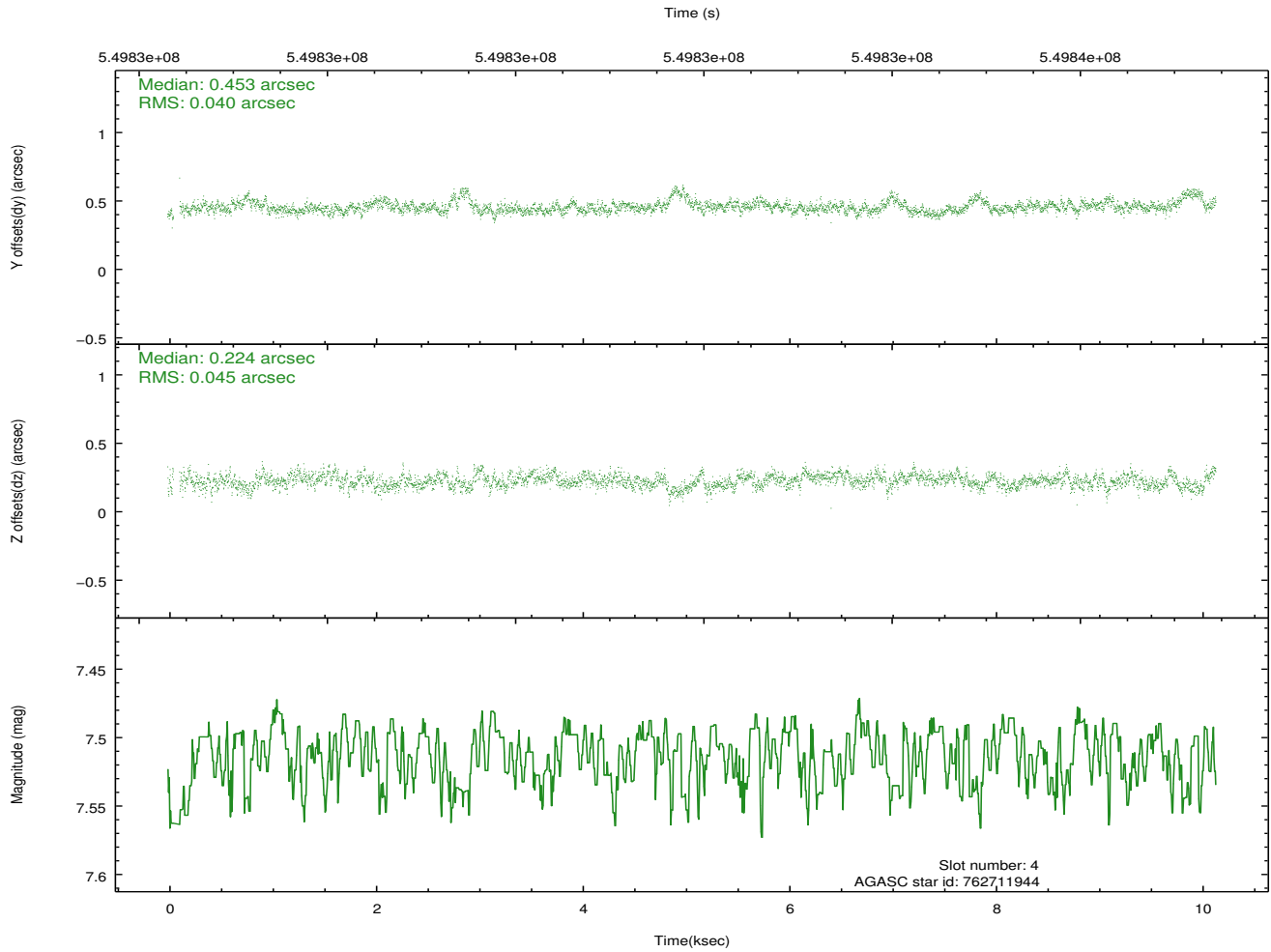
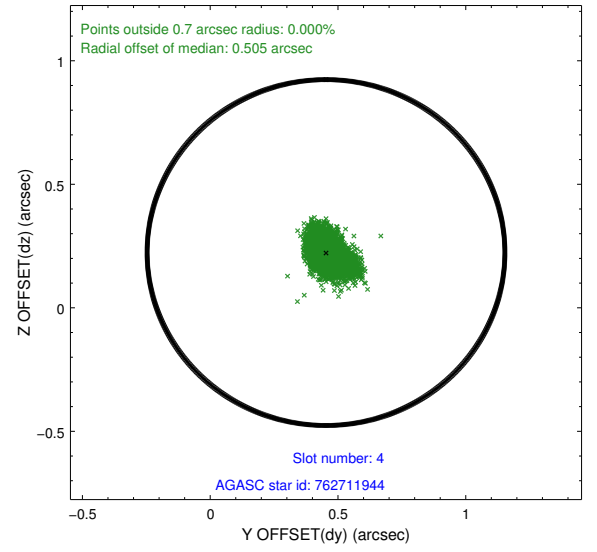
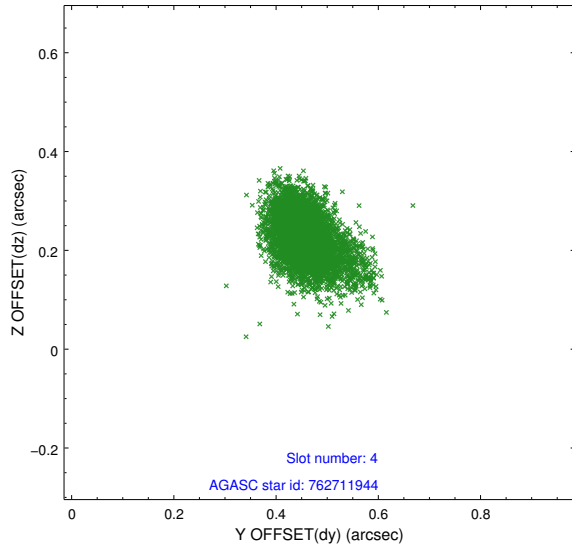
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.08	2461	-0.104	-0.057	0.012	0.019	0.000000	0.000000	-770.81	-1738.31
1	FID		ACIS-S-4	7.16	2461	0.320	0.066	0.006	0.011	0.000000	0.000000	2142.65	169.76
2	FID		ACIS-S-5	7.19	2461	-0.247	0.000	0.011	0.017	0.000000	0.000000	-1823.12	163.95
3	GUIDE	used	762710696	8.74	4920	-0.024	0.127	0.090	0.146	343.627319	-14.817648	-2166.36	-197.29
4	GUIDE	used	762711944	7.51	4922	0.453	0.224	0.061	0.111	344.003316	-14.663530	-2145.28	-1618.92
5	GUIDE	used	762714776	8.04	4918	-0.417	-0.733	0.083	0.135	342.600666	-14.059348	1702.25	2101.15
6	GUIDE	used	762712928	8.98	4918	-0.016	0.380	0.102	0.174	343.847340	-13.740656	1137.64	-2366.46
7	MONITOR	unused		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

## 2.4 Star Slots

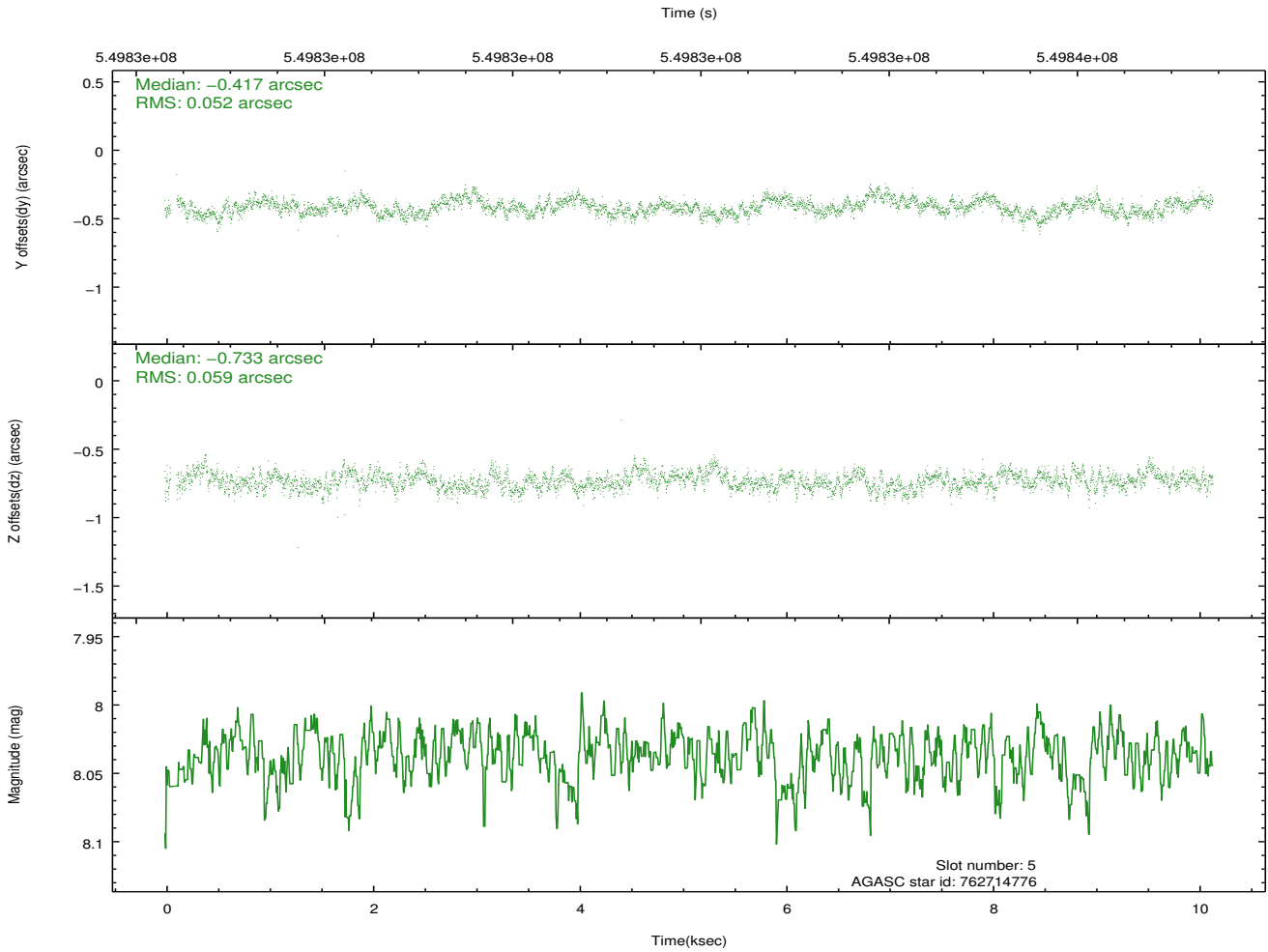
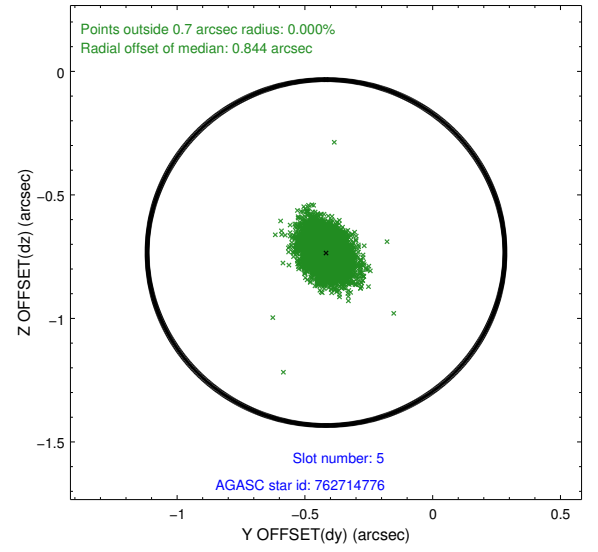
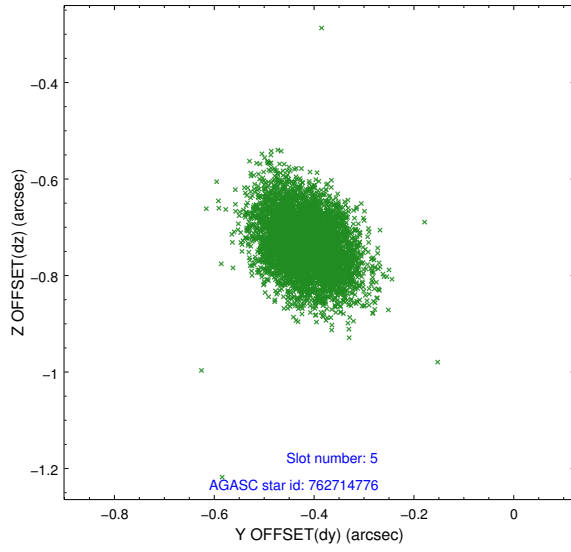
### 2.4.1 Slot 3



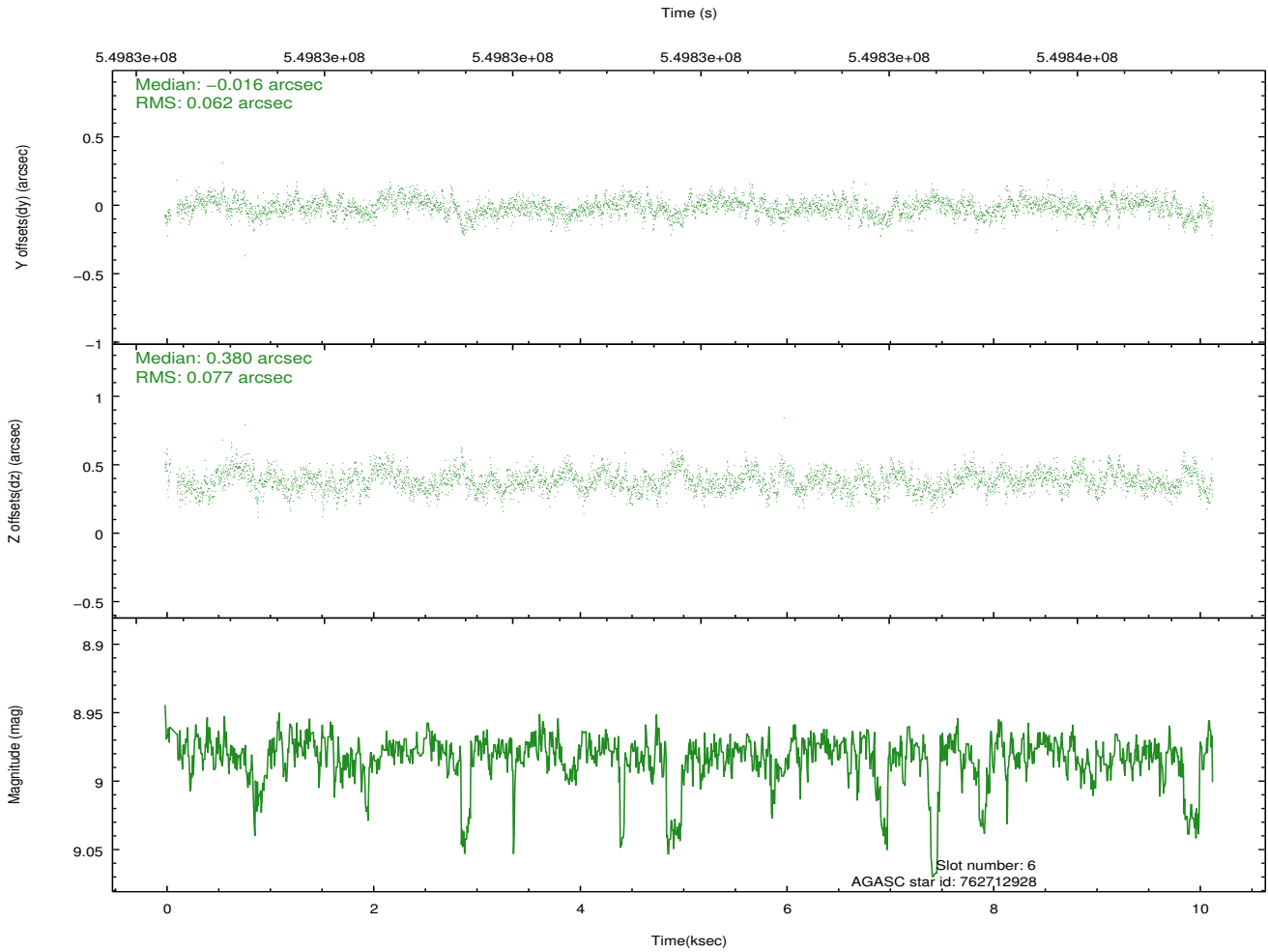
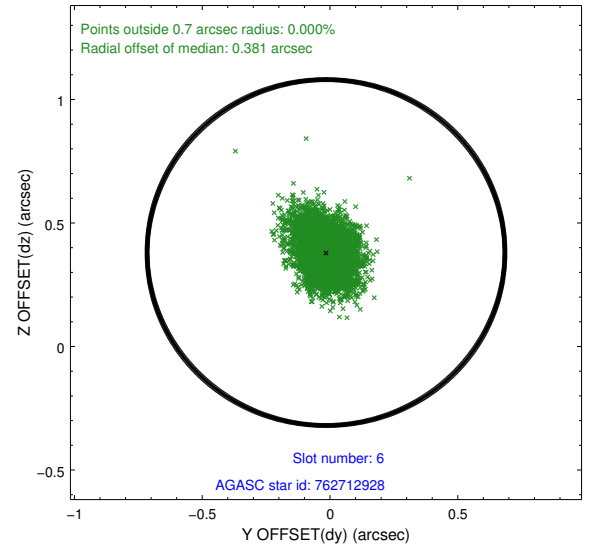
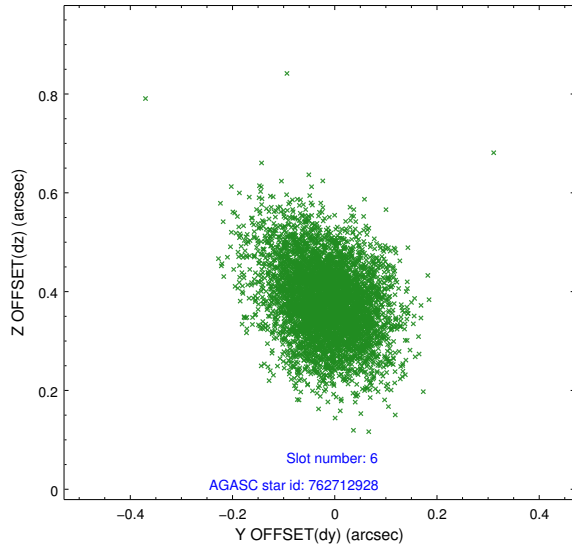
## 2.4.2 Slot 4



### 2.4.3 Slot 5



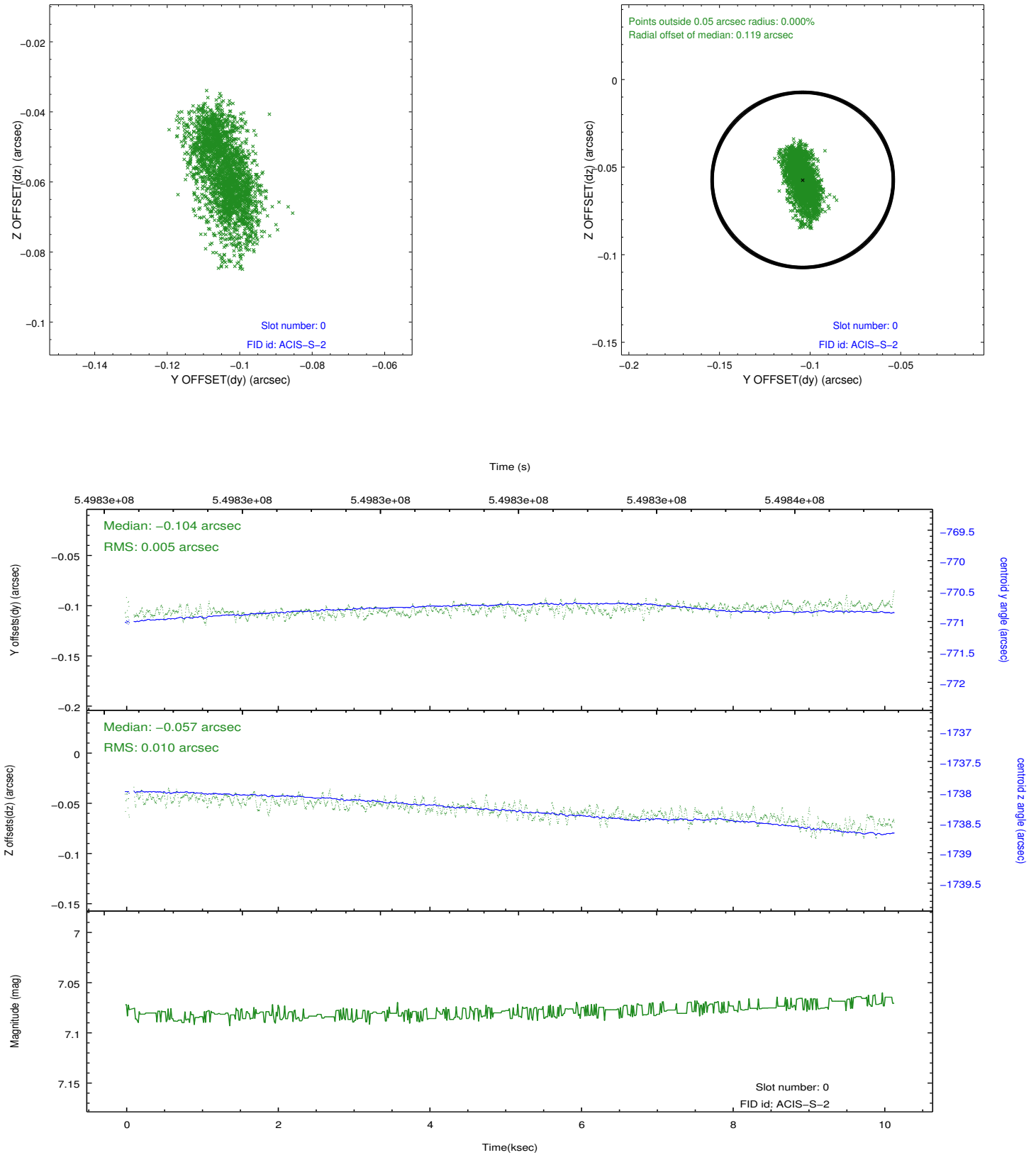
## 2.4.4 Slot 6



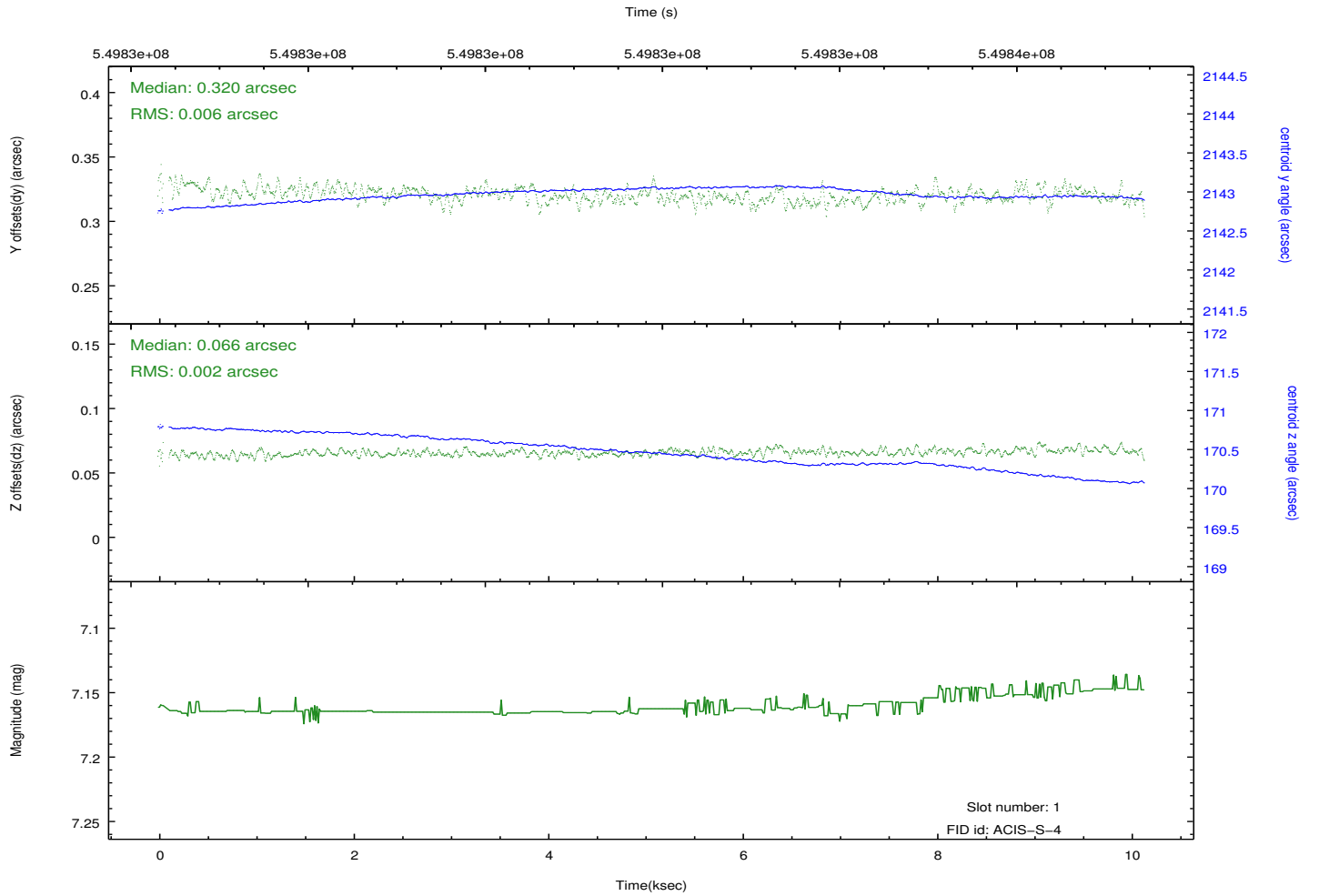
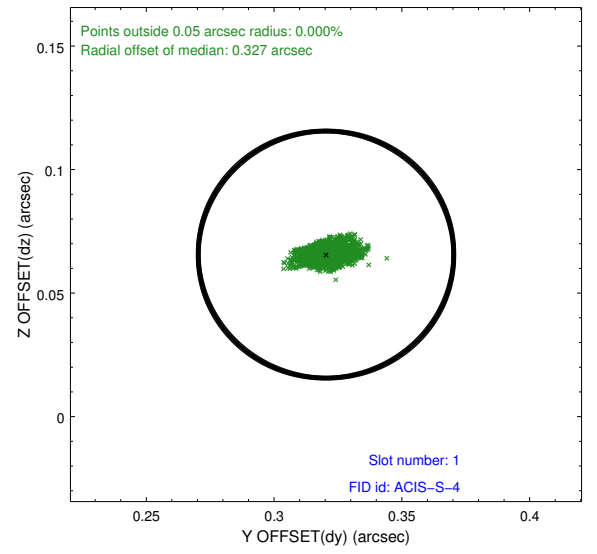
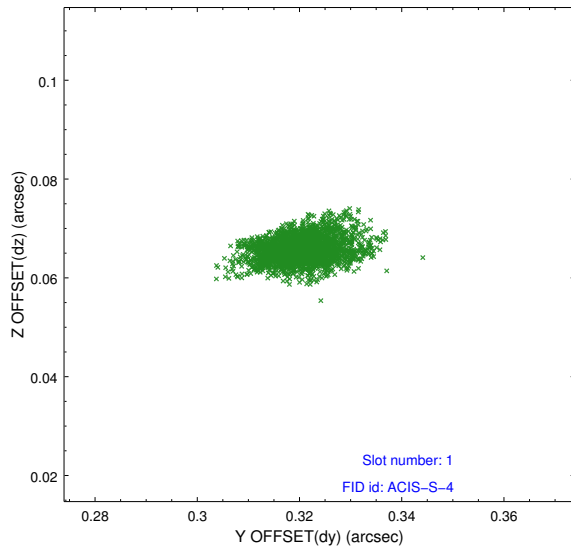


## 2.5 FID Slots

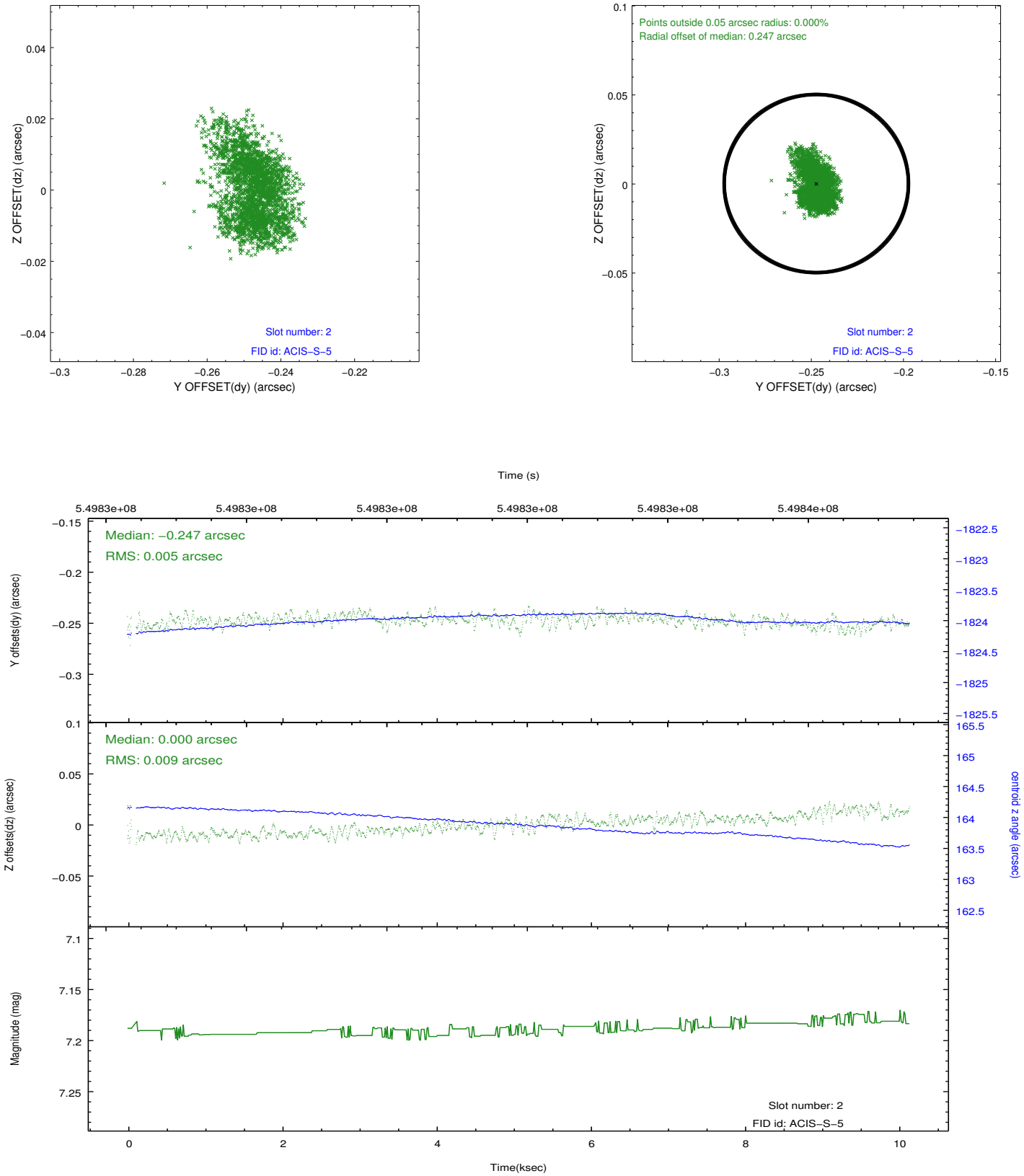
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.026

### A.2 Comments

Target was monitored optically during the observation in Aspect Camera slot 7.