

# V&V Reference Report

## L2 ASCDS Version : 10.8.1

Observation 23192 - L2 Version 1  
Chandra X-Ray Center

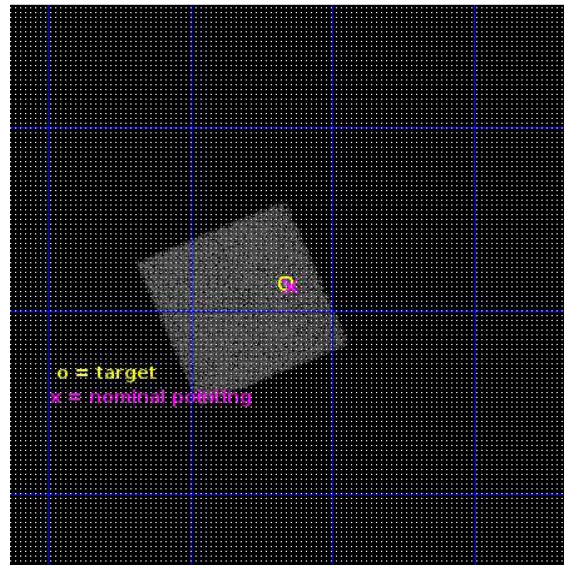
L2 Processing Date : Mar 21 2020

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# 1 Front

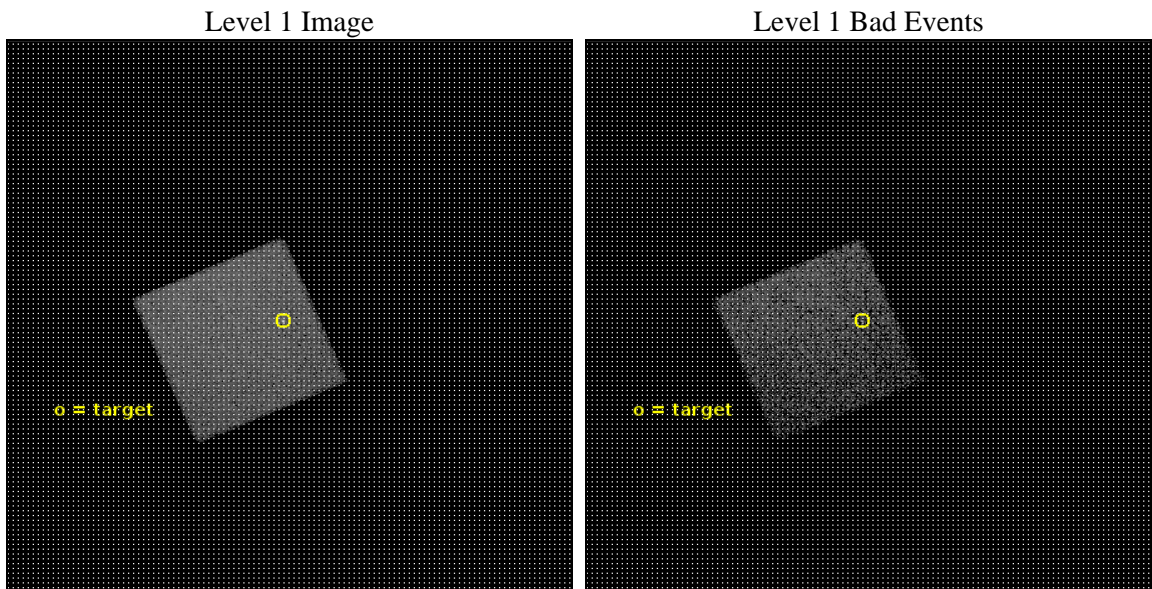
seq_num	704044	Sequence number
obs_id	23192	Observation id
title	C-BASS: A Chandra Legacy Survey of AGN at the Highest Spatial Resolutions	Proposal title
observer	Michael Koss	Principal investigator
object	NGC4235	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	184.291168	Observer's specified target RA [deg]
dec_targ	7.191609	Observer's specified target Dec [deg]
ra_nom	184.28589198722	Nominal RA [deg]
dec_nom	7.1889754035625	Nominal Dec [deg]
roll_nom	156.64184804964	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10510.574314237	Sum of GTIs [s]
livetime	10368.730086651	Livetime [s]
ontime7	10510.574314237	Sum of GTIs [s]
l2events	46312	Number of level 2 events



## 2 OBI

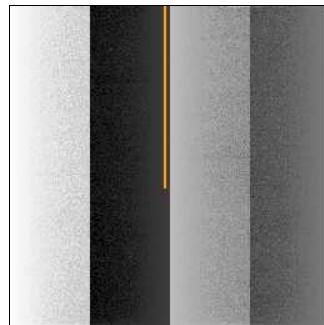
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10418.651000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	10510.574314237	Sum of GTIs [s]
caldbver	4.8.4.2	&#160	ontime7	10510.574314237	Sum of GTIs [s]
date	2020-03-22T01:33:51	Date and time of file creation	l1events	106570	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

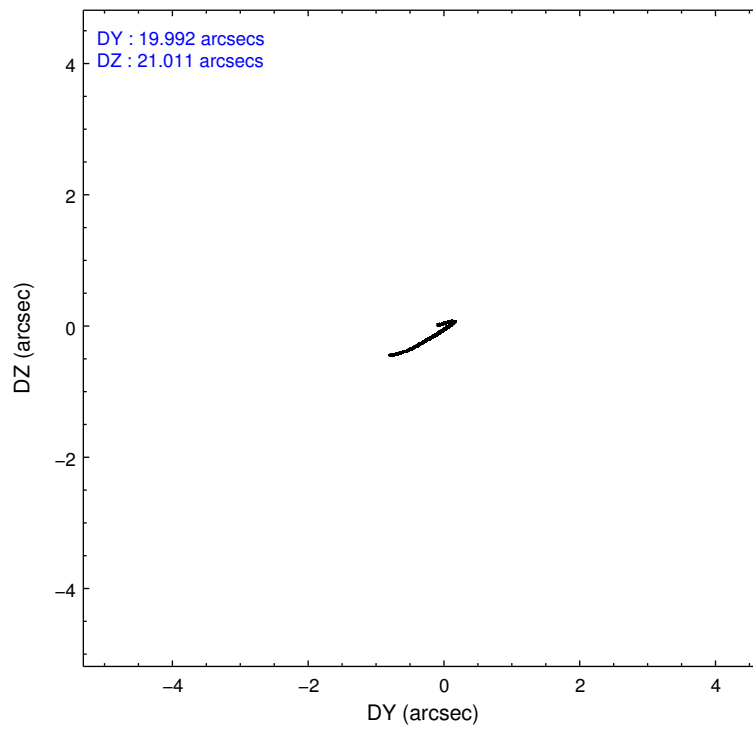
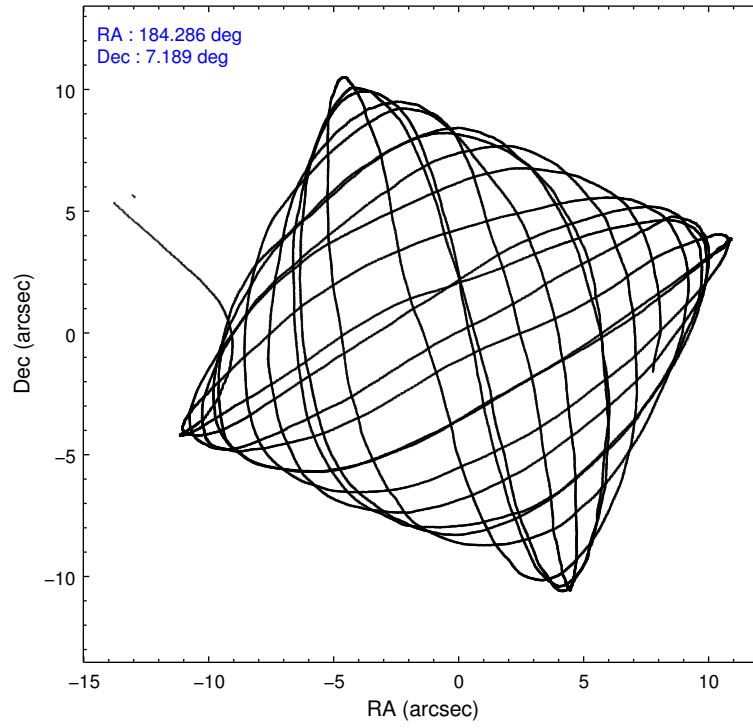
	<b>ccd 7</b>
level 1 events	106570
rejected events	59079
rejected %	<b>55%</b>

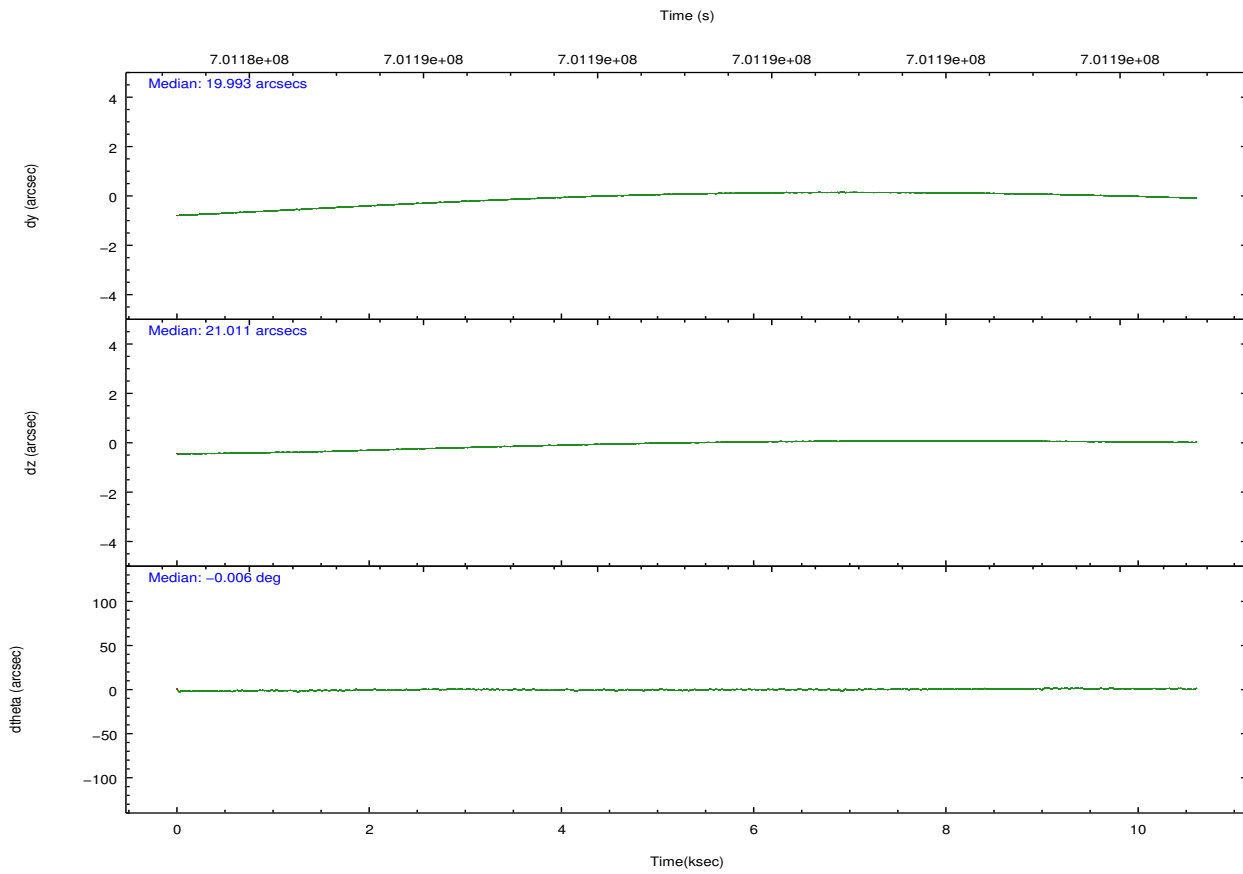
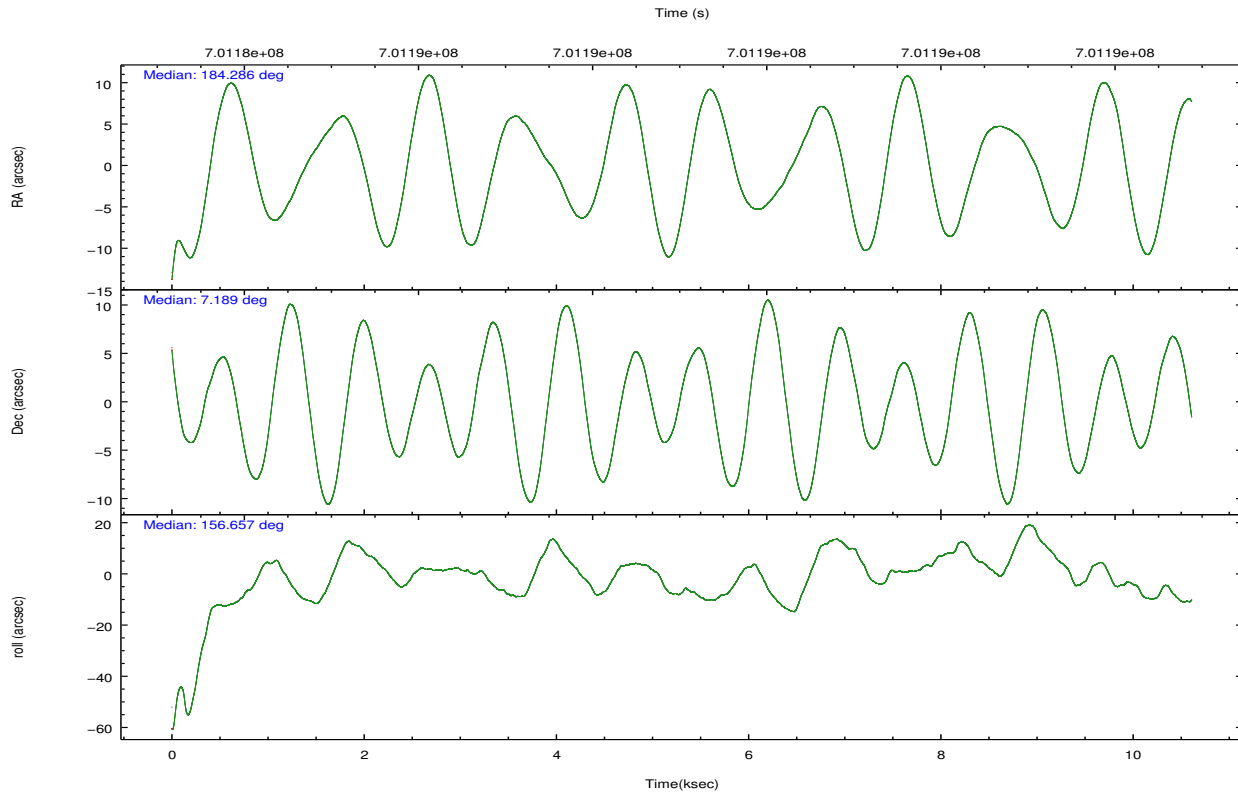
	<b>ccd 7</b>
grade 0 events	4180
	3%
grade 1 events	220
	0%
grade 2 events	9887
	9%
grade 3 events	3674
	3%
grade 4 events	3570
	3%
grade 5 events	10263
	9%
grade 6 events	26199
	24%
grade 7 events	48577
	45%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	184.313373	184.2858919872166	Subarray requested	NONE	NONE
[deg] Pointing Dec	7.192491	7.188975403562509	Alternating exposures requested	N	N
[deg] Pointing Roll	156.481788	156.641848049636	[s] Primary exposure time	0.000000	3
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	701183902.184000	701182962.75181			
Observation start date	2020-03-21T13:17:13	2020-03-21T13:02:42			
[s] Observation end time (MET)	701194321.184000	701194750.25253			
Observation end date	2020-03-21T16:10:52	2020-03-21T16:19:10			
Read mode	TIMED	TIMED			

## 2.3 Aspect





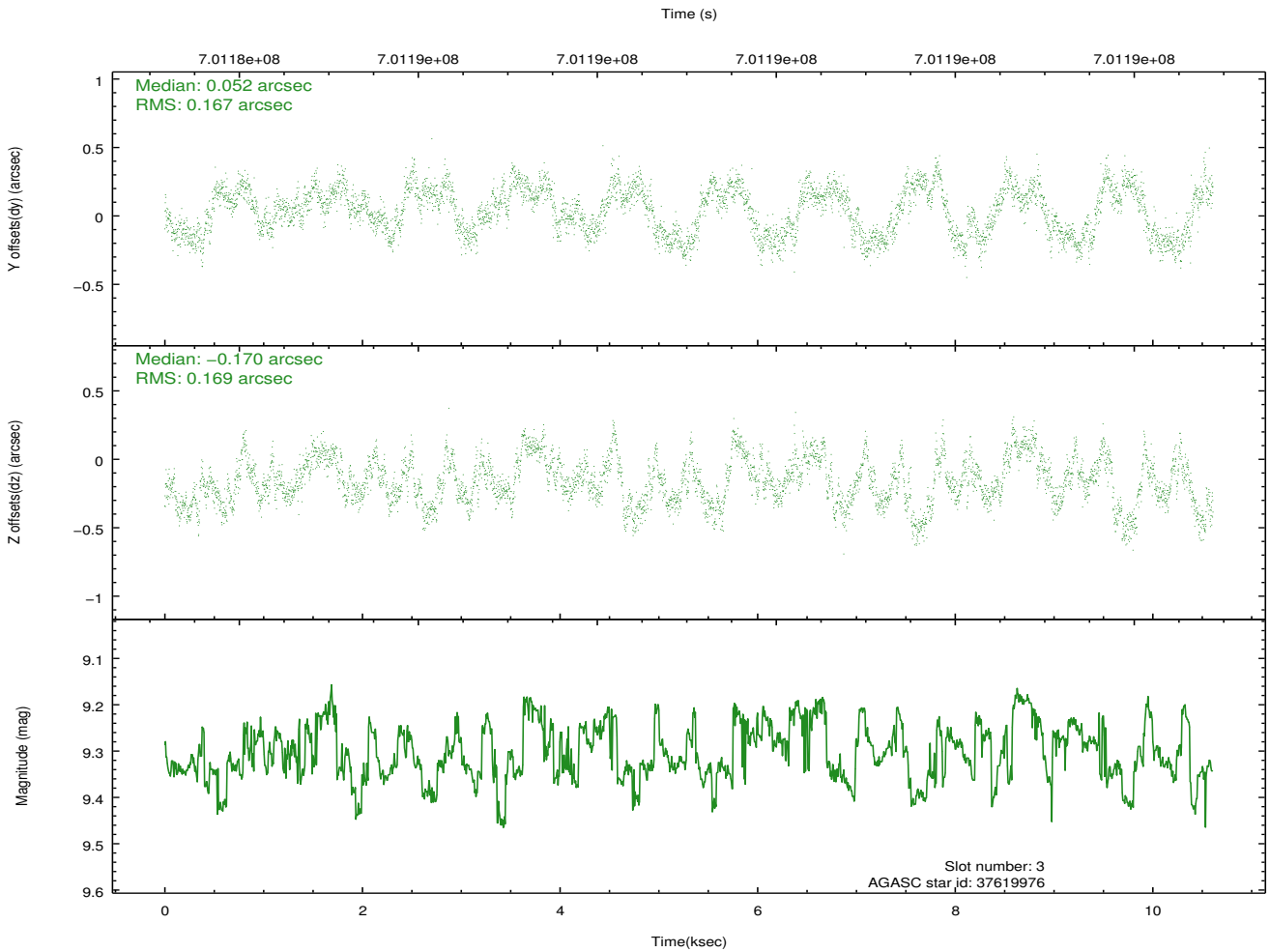
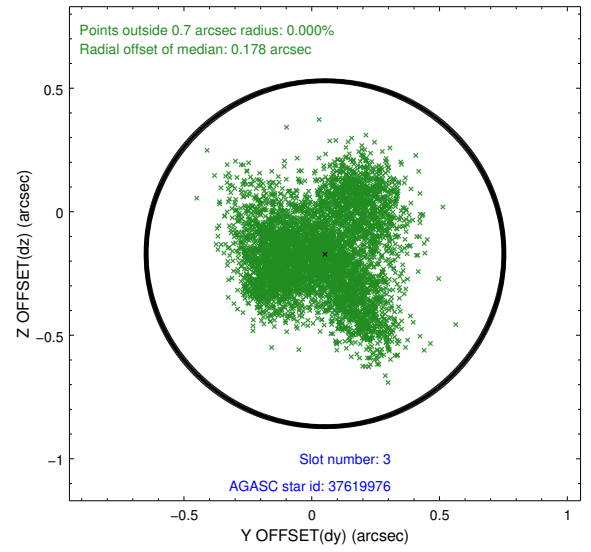
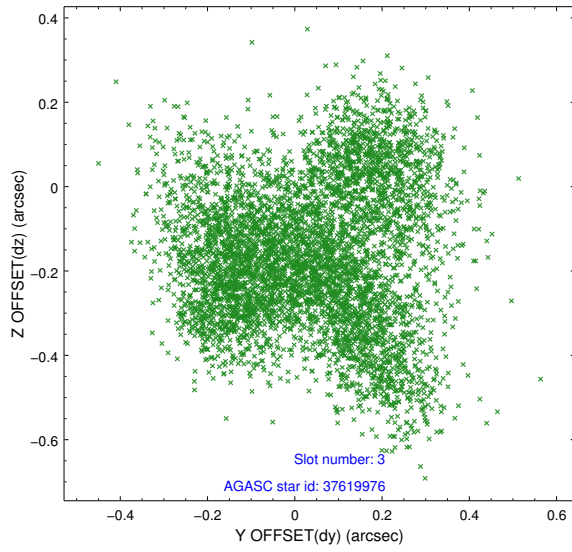
### Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.13	2588	1.000	-0.411	-0.281	0.017	0.030	0.000000	0.000000	-773.34	-1742
1	FID		ACIS-S-4	7.24	2588	1.000	0.873	0.274	0.011	0.017	0.000000	0.000000	2140.94	165
2	FID		ACIS-S-5	7.20	2588	1.000	-0.495	0.017	0.012	0.020	0.000000	0.000000	-1825.70	159
3	GUIDE	used	37619976	9.31	5165	1.000	0.052	-0.170	0.264	0.387	183.960561	7.445990	1519.36	-334
4	GUIDE	used	37620552	8.65	5173	1.000	-0.020	0.140	0.181	0.312	184.111141	7.355457	898.13	-249
5	GUIDE	used	37621368	10.02	5052	1.000	-0.571	-0.630	0.434	0.690	183.815847	7.010576	1369.37	1308
6	GUIDE	used	37622304	9.38	5099	1.000	0.179	0.244	0.304	0.468	184.800430	7.005757	-1863.23	-77
7	GUIDE	used	114426224	8.82	5170	1.000	0.362	0.372	0.237	0.367	184.430539	7.663672	292.90	-1720

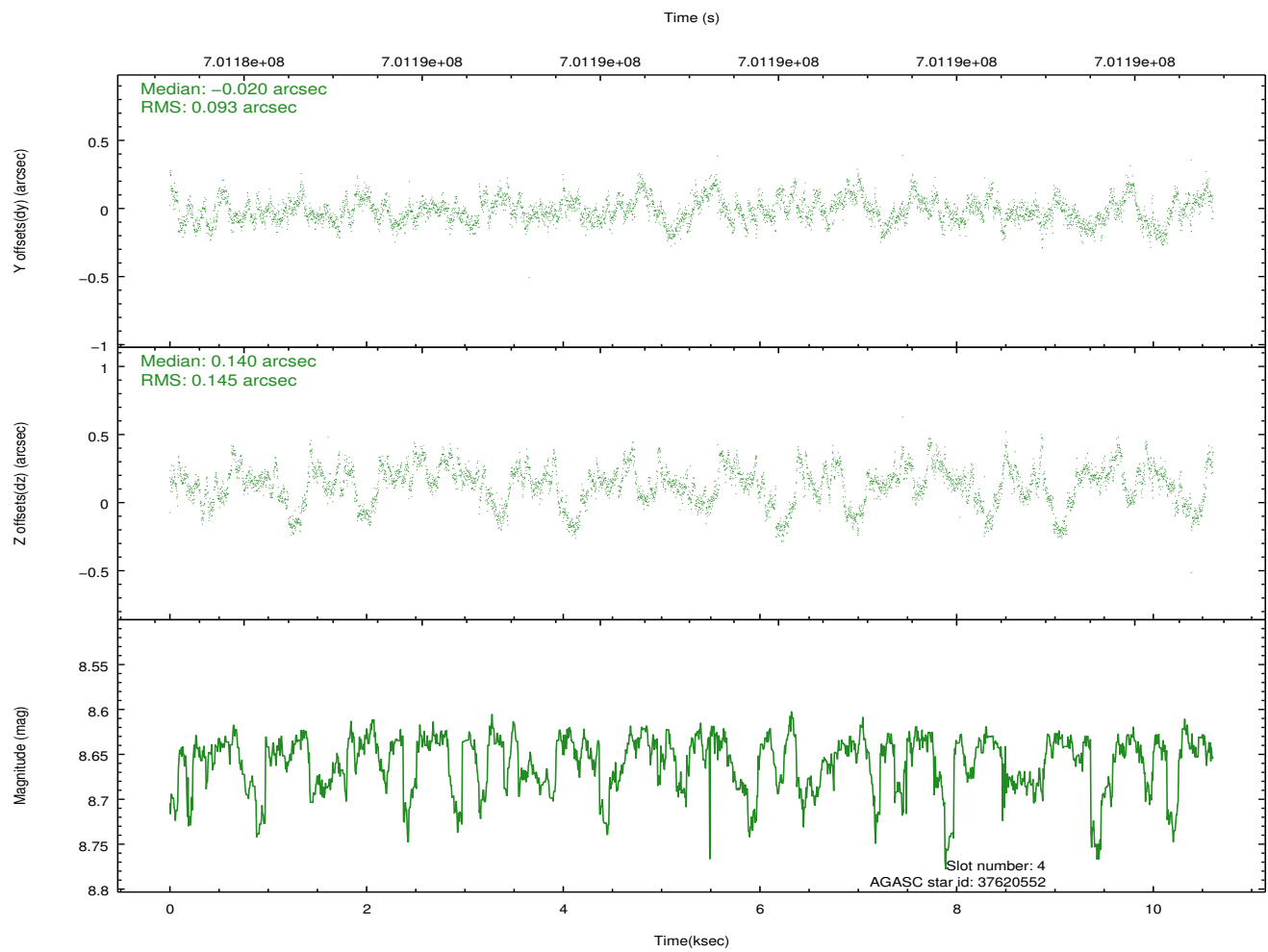
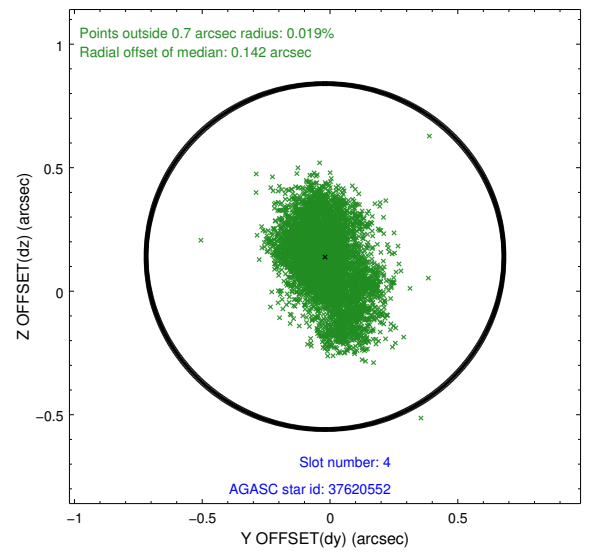
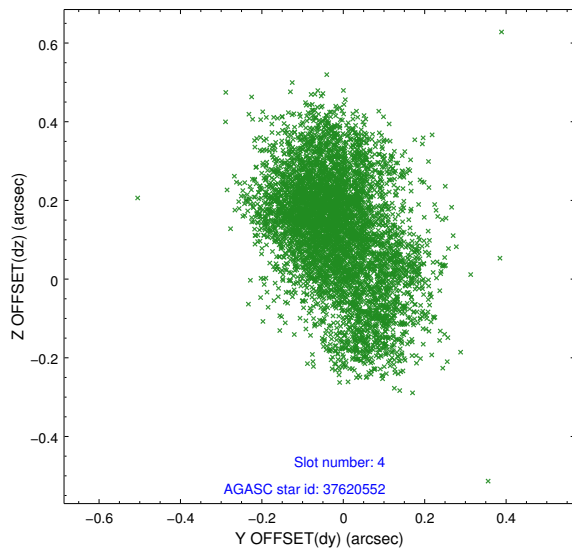
∞

## 2.4 Star Slots

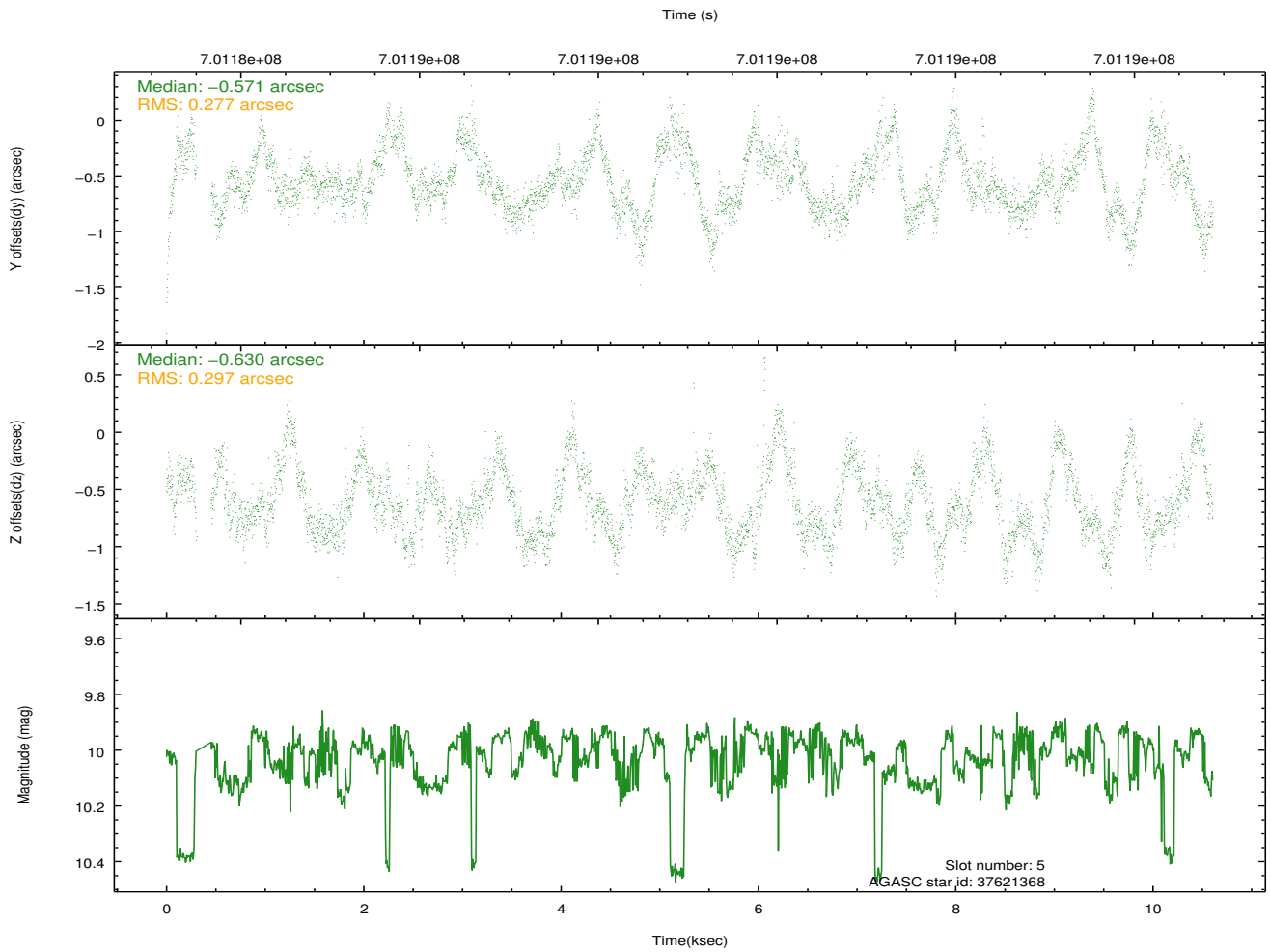
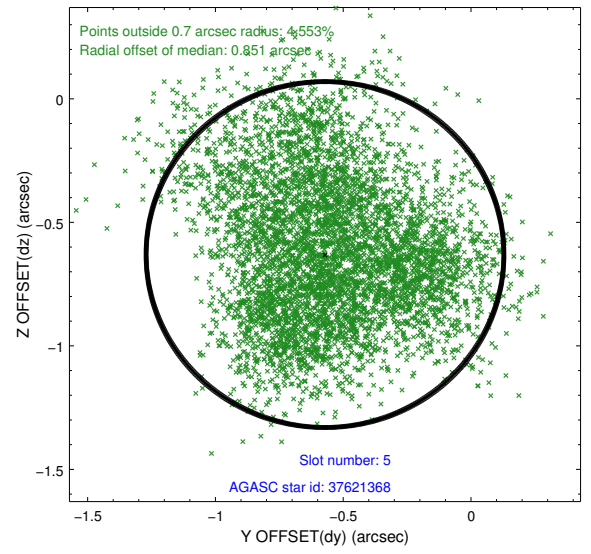
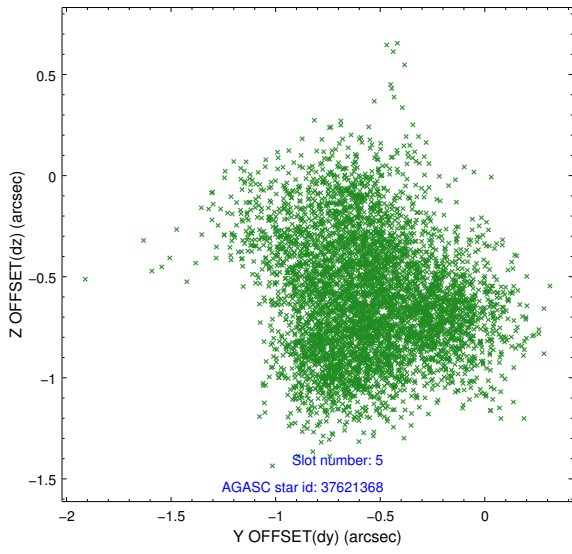
### 2.4.1 Slot 3



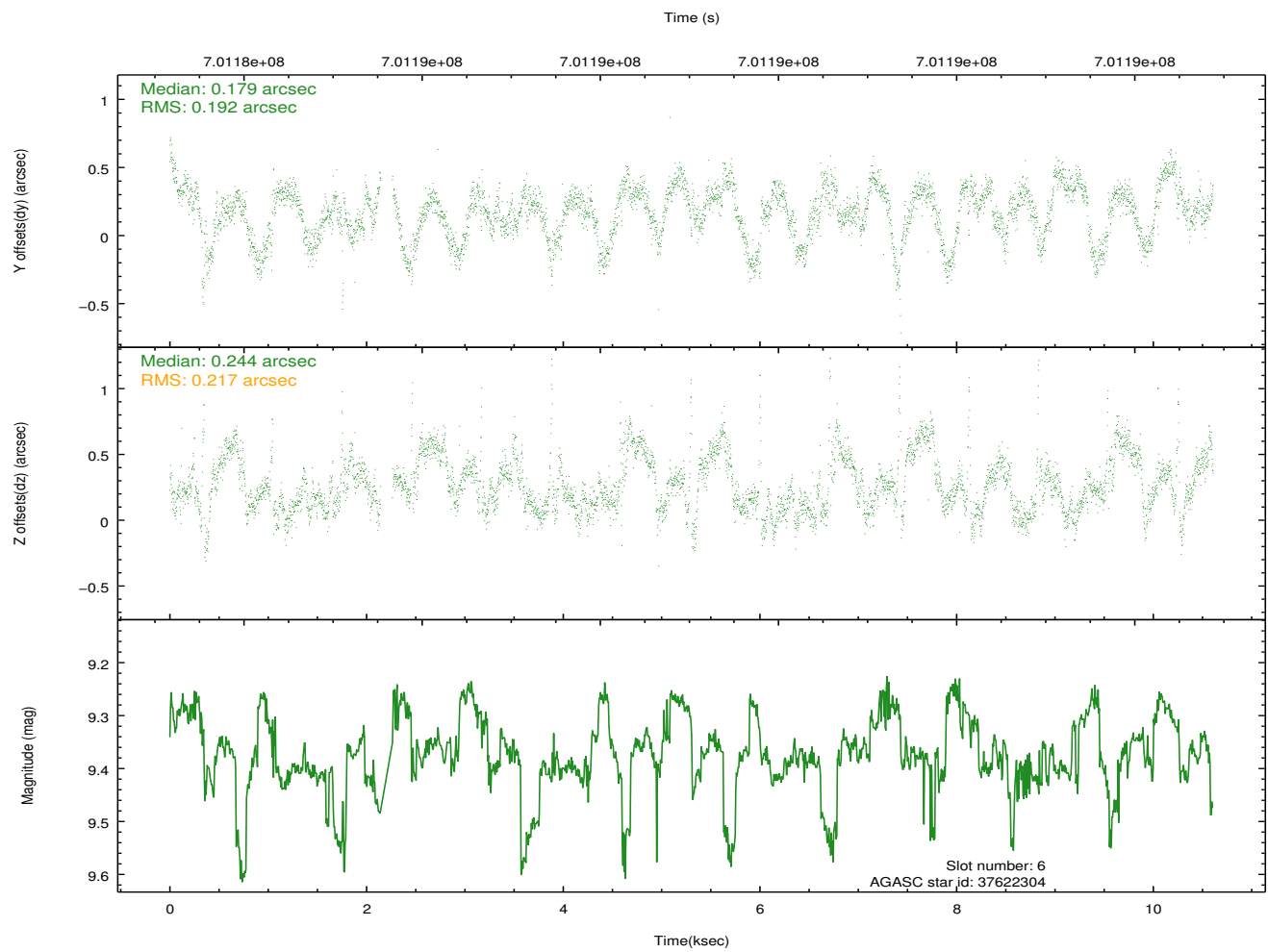
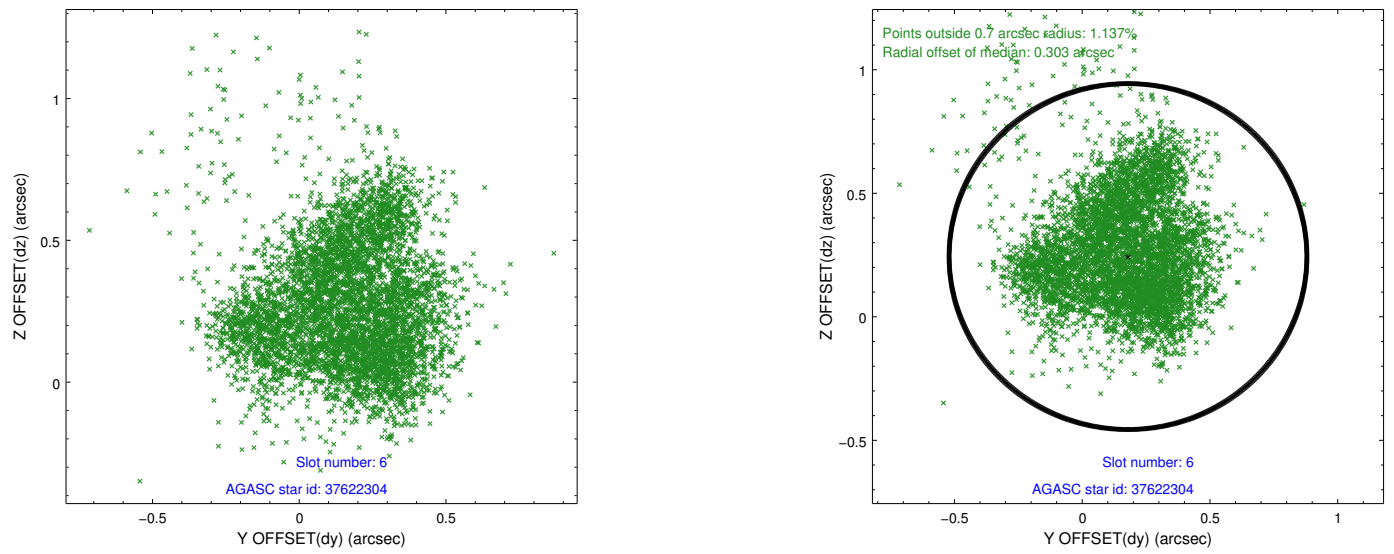
## 2.4.2 Slot 4



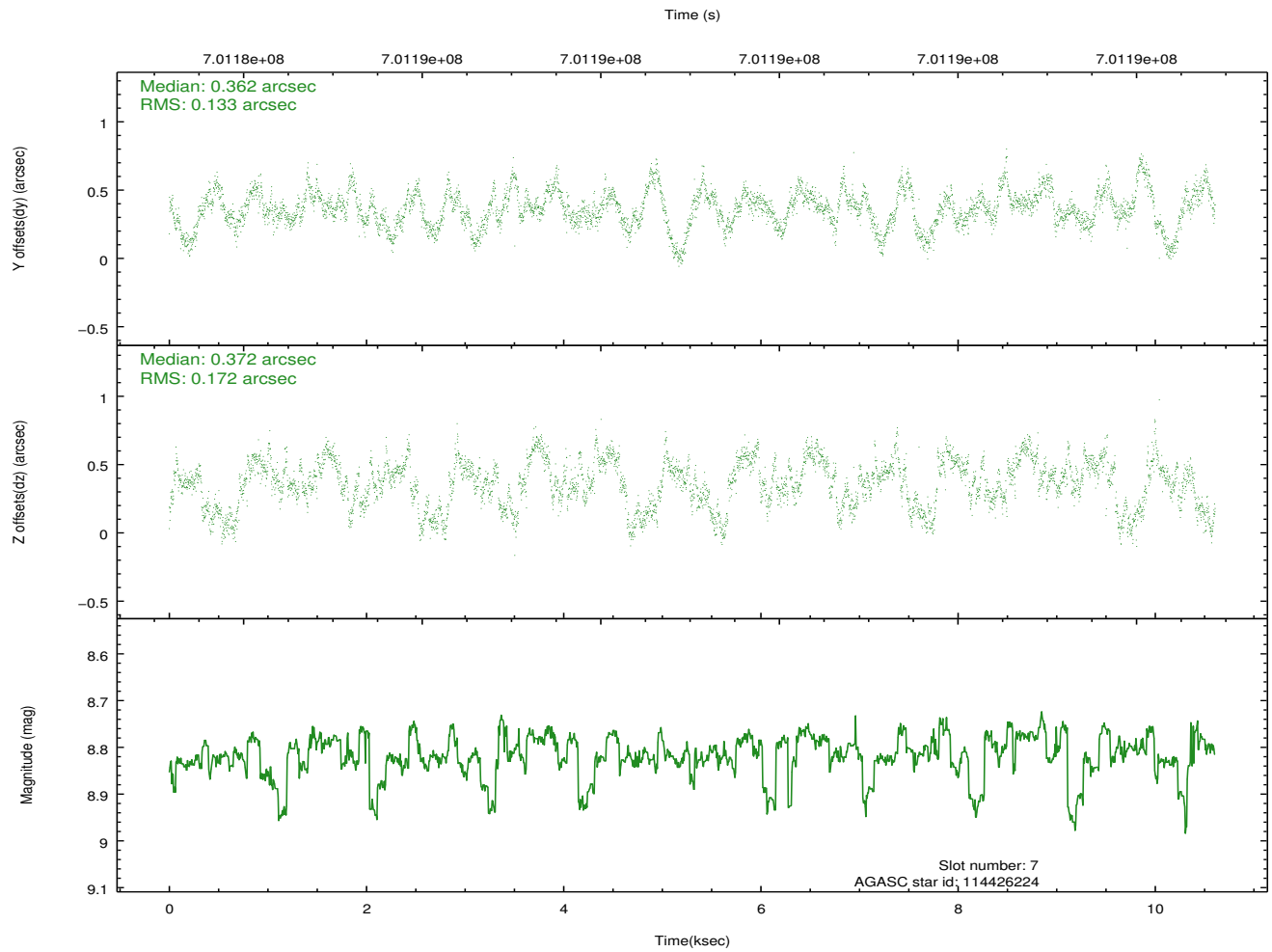
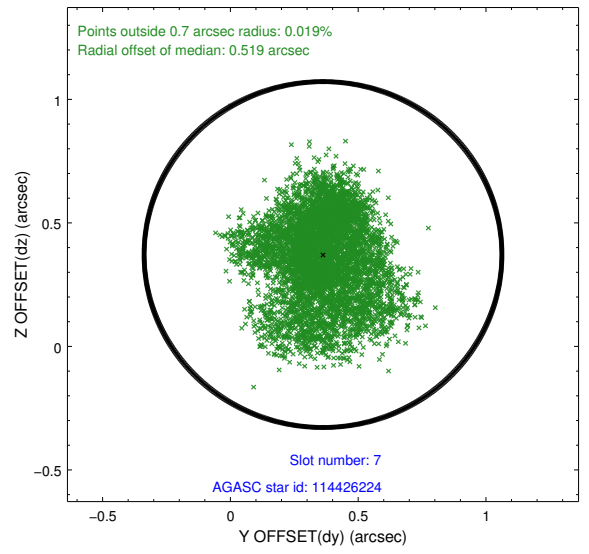
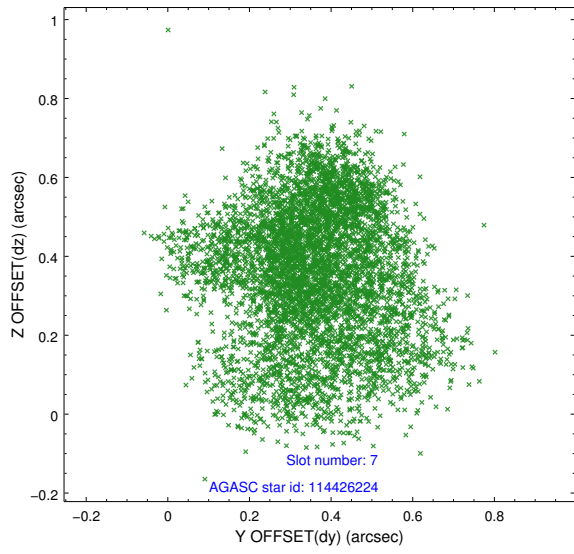
### 2.4.3 Slot 5



## 2.4.4 Slot 6

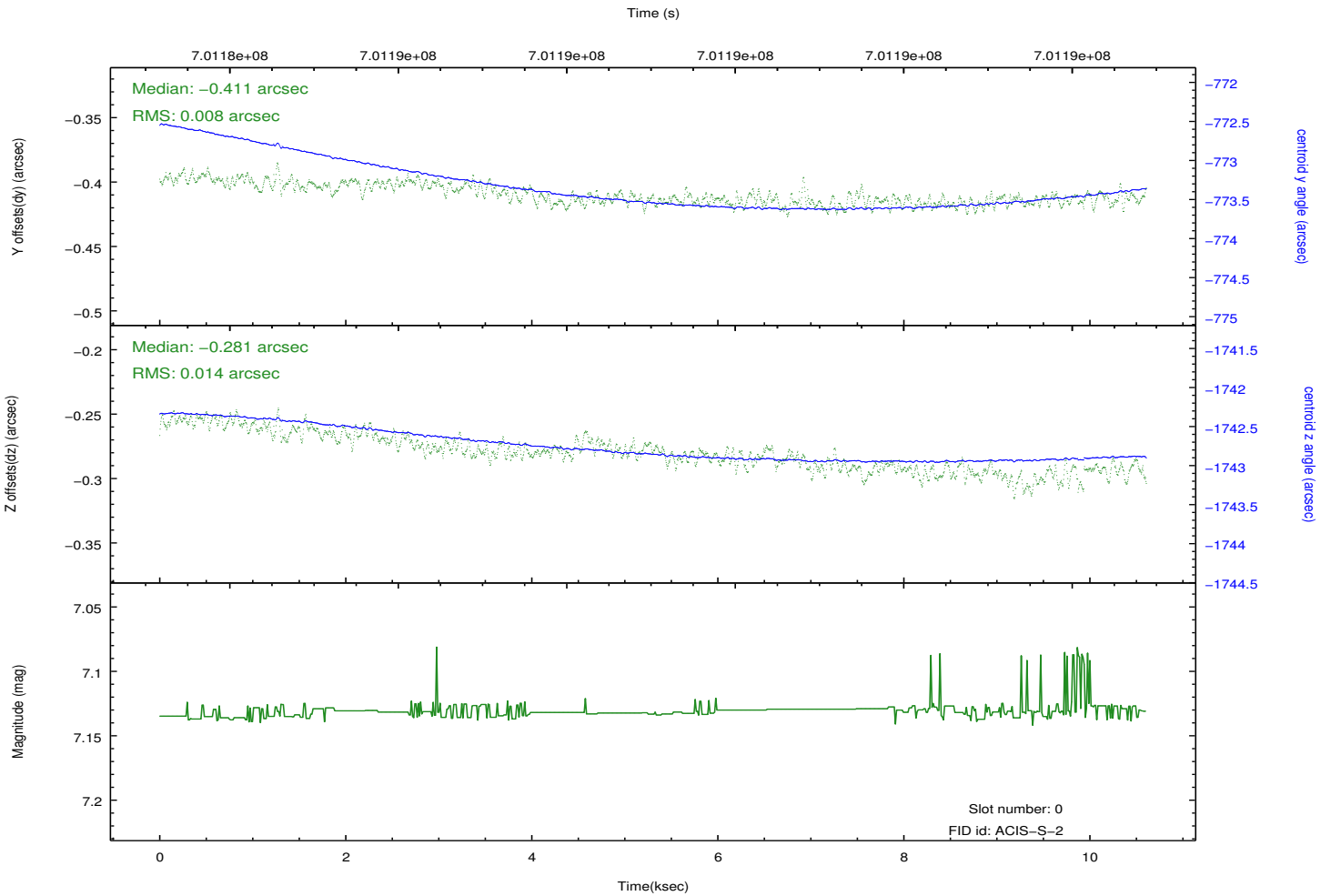
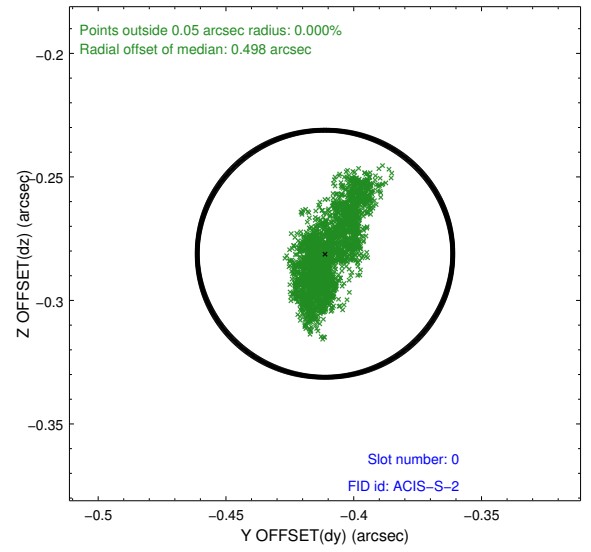
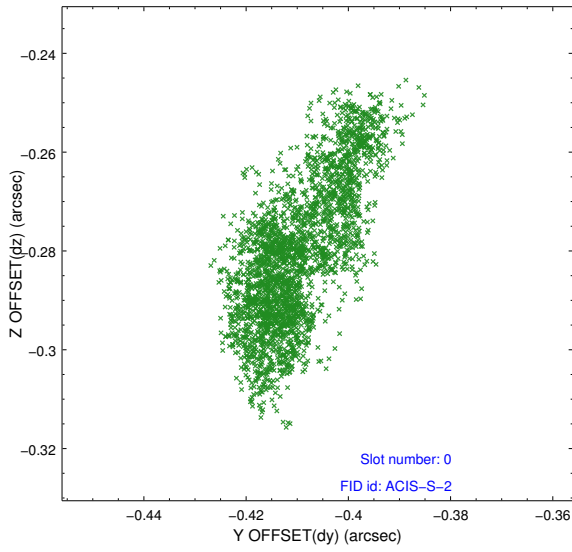


## 2.4.5 Slot 7

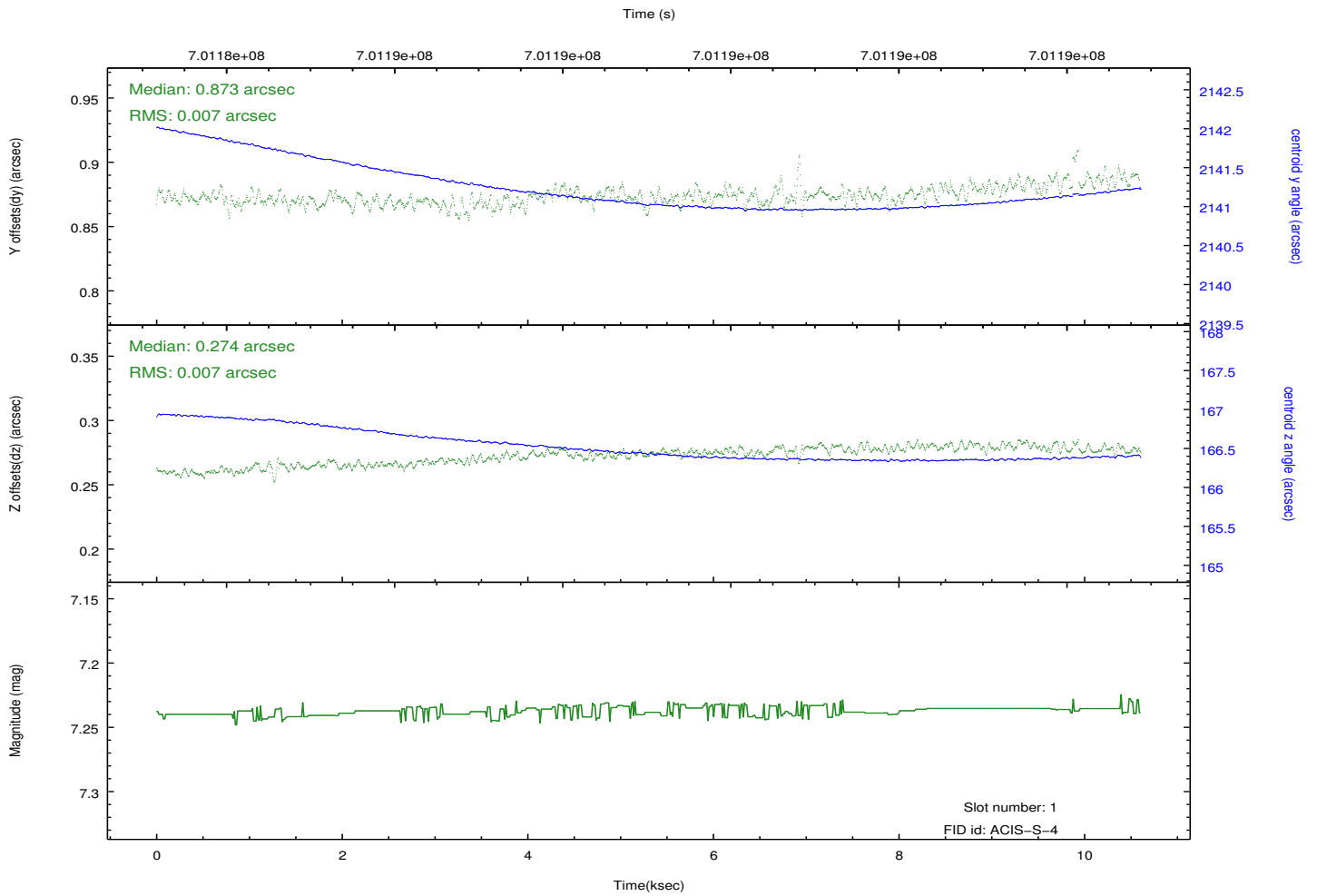
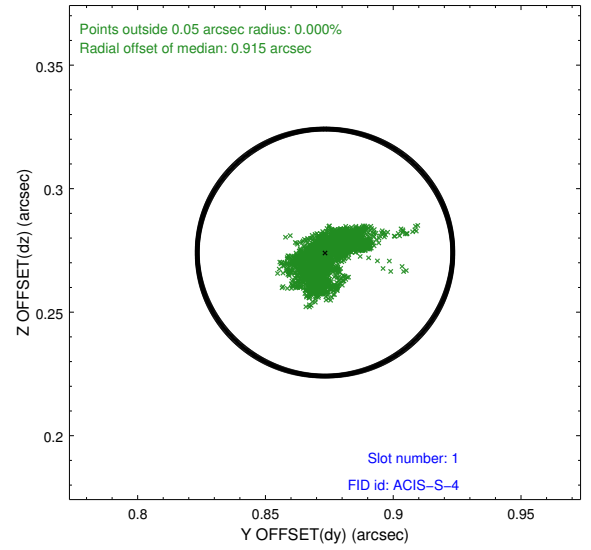
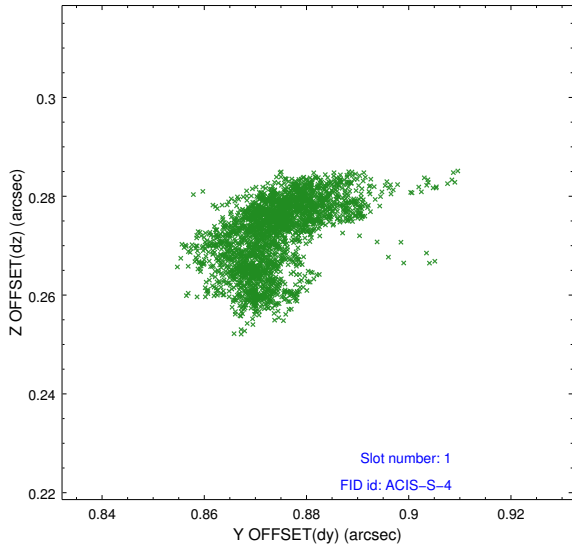


## 2.5 FID Slots

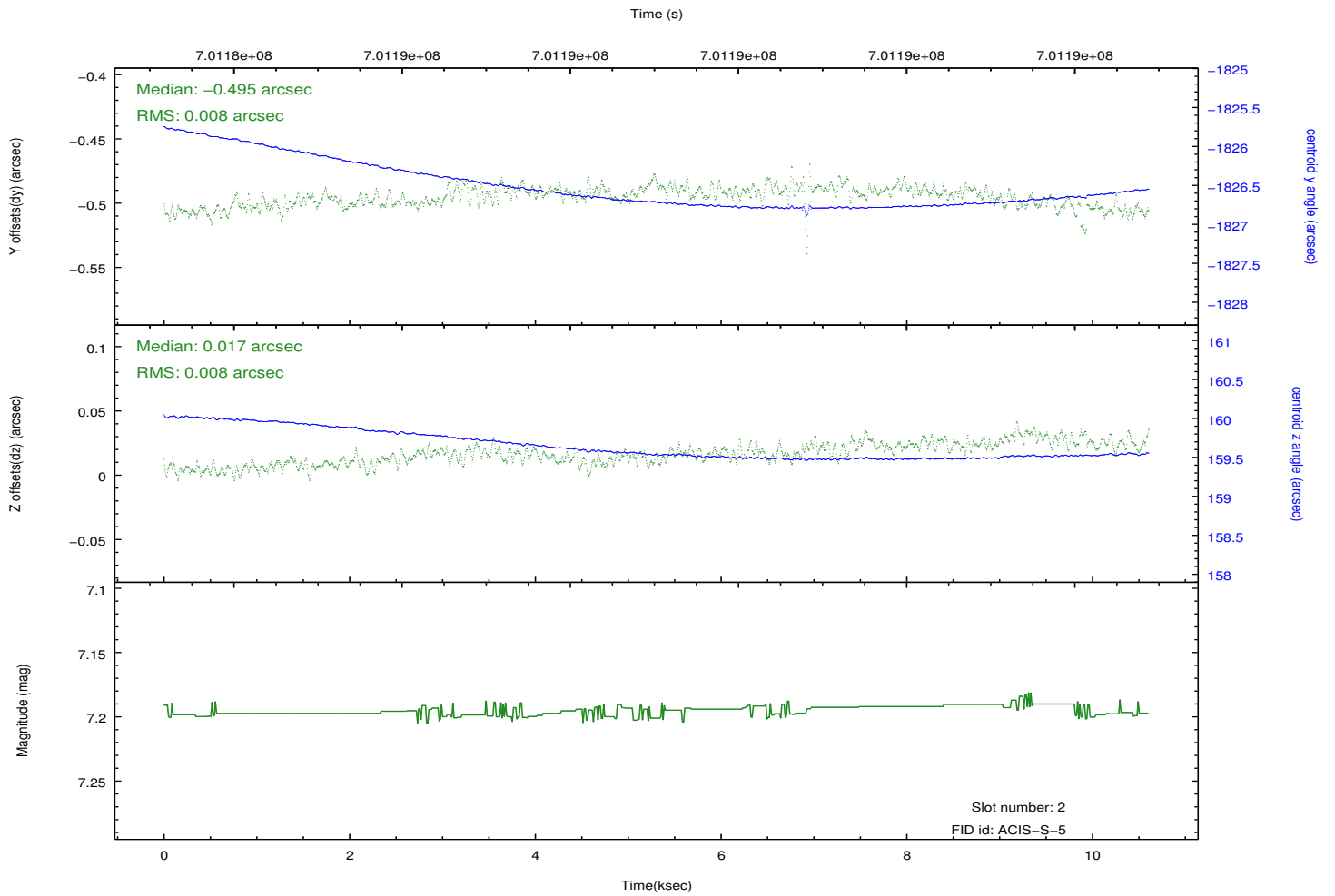
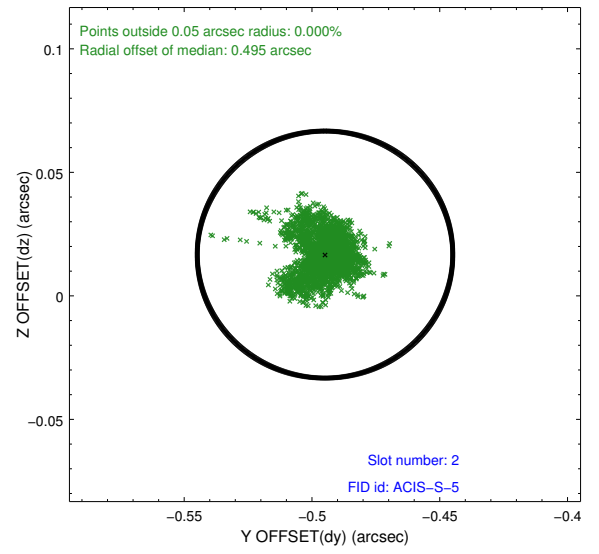
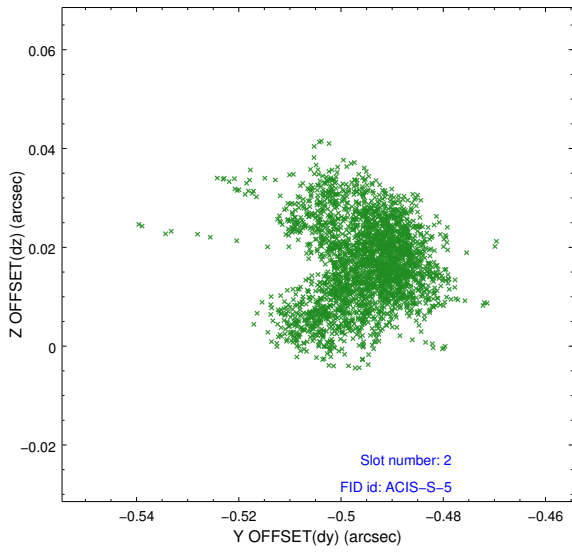
### 2.5.1 Slot 0



## 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)	2020.03.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.510574314237

## A.2 Comments