

# V&V Reference Report

## L2 ASCDS Version : 10.6

Observation 19693 - L2 Version 1  
Chandra X-Ray Center

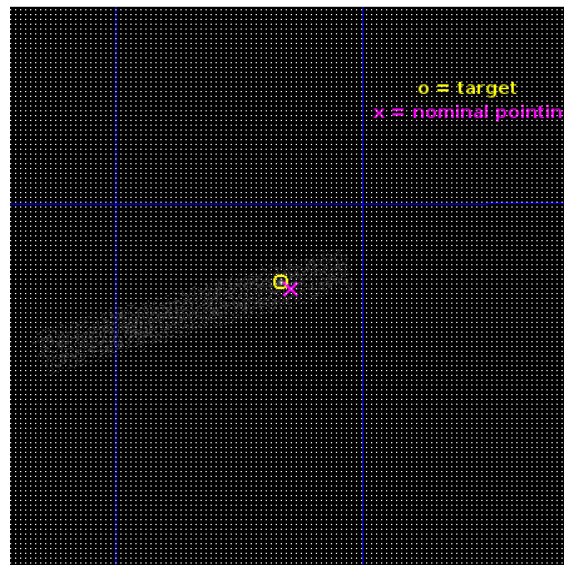
L2 Processing Date : Sep 26 2017

## 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
2.5	FID Slots . . . . .	13
2.5.1	Slot 0 . . . . .	13
2.5.2	Slot 1 . . . . .	14
2.5.3	Slot 2 . . . . .	15
<b>A</b>	<b>Summary</b>	<b>16</b>
A.1	Status . . . . .	16
A.2	Comments . . . . .	16

# 1 Front

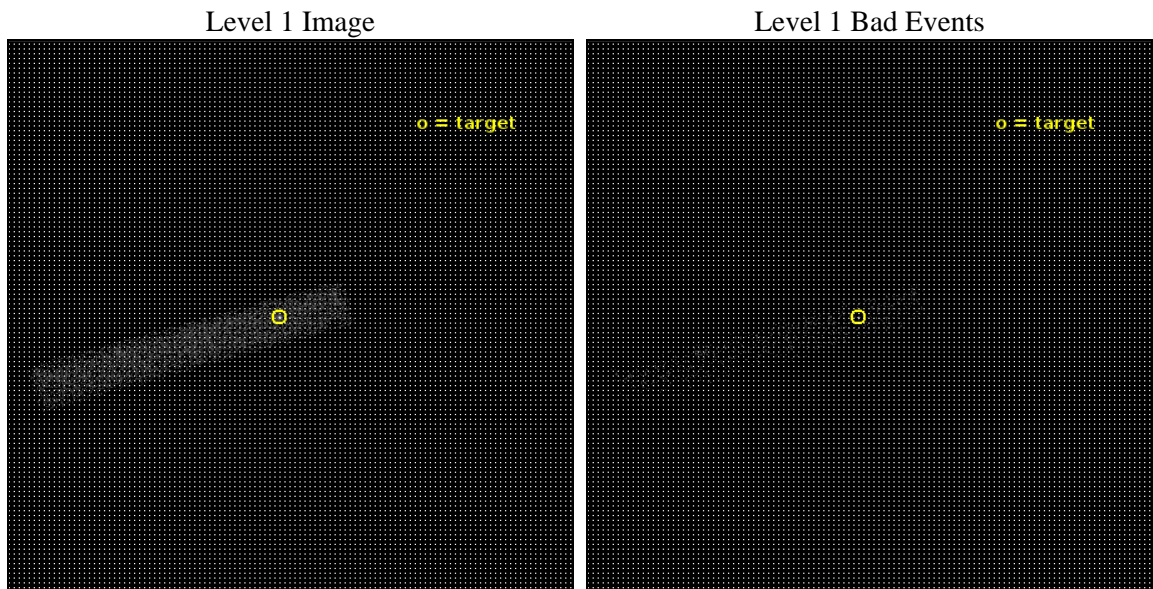
seq_num	703442	Sequence number
obs_id	19693	Observation id
title	2MASS J00423991+3017515: An AGN On The Run?	Proposal title
observer	James Hogg	Principal investigator
object	2MASS J00423991+3017515	Source name
dtycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.66625	Observer's specified target RA [deg]
dec_targ	30.297639	Observer's specified target Dec [deg]
ra_nom	10.660903284207	Nominal RA [deg]
dec_nom	30.294604164911	Nominal Dec [deg]
roll_nom	163.72583828152	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8025.1995215416	Sum of GTIs [s]
liveltime	7278.4323612748	Livetime [s]
ontime7	8025.1995215416	Sum of GTIs [s]
l2events	7577	Number of level 2 events



## 2 OBI

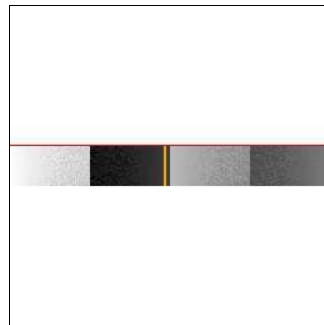
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	8025.1995215416	Sum of GTIs [s]
caldbver	4.7.6	&#160	ontime7	8025.1995215416	Sum of GTIs [s]
date	2017-09-26T04:43:20	Date and time of file creation	l1events	13298	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

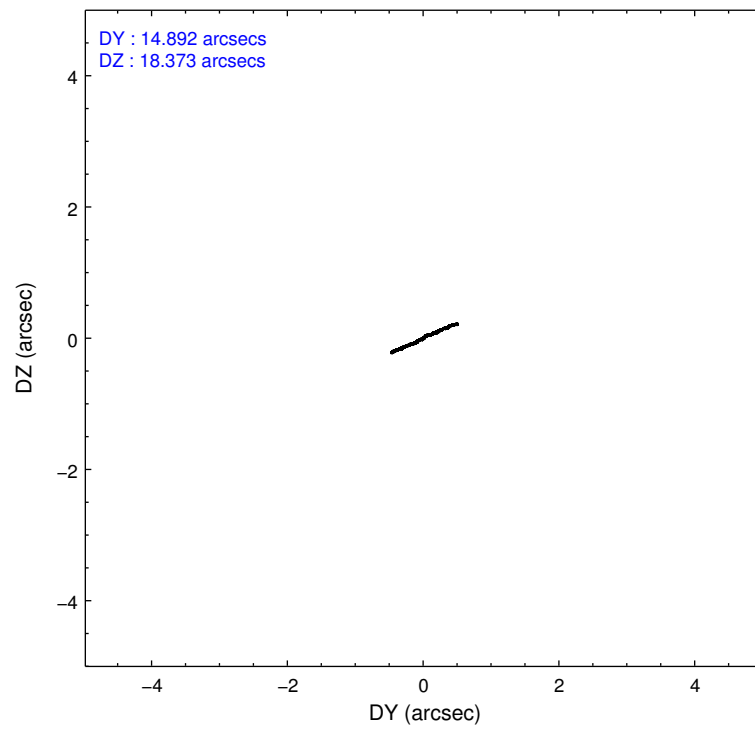
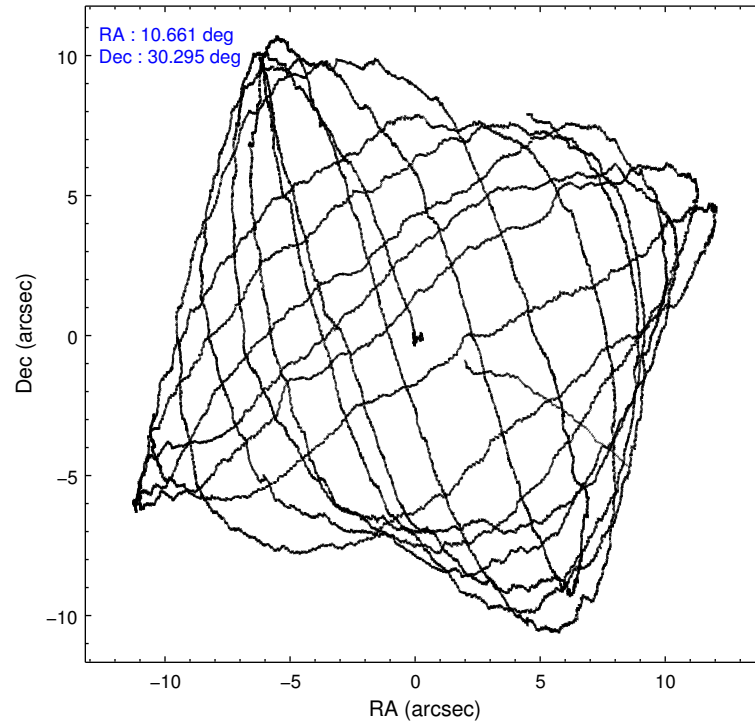
	<b>ccd 7</b>
level 1 events	13298
rejected events	5490
rejected %	41%

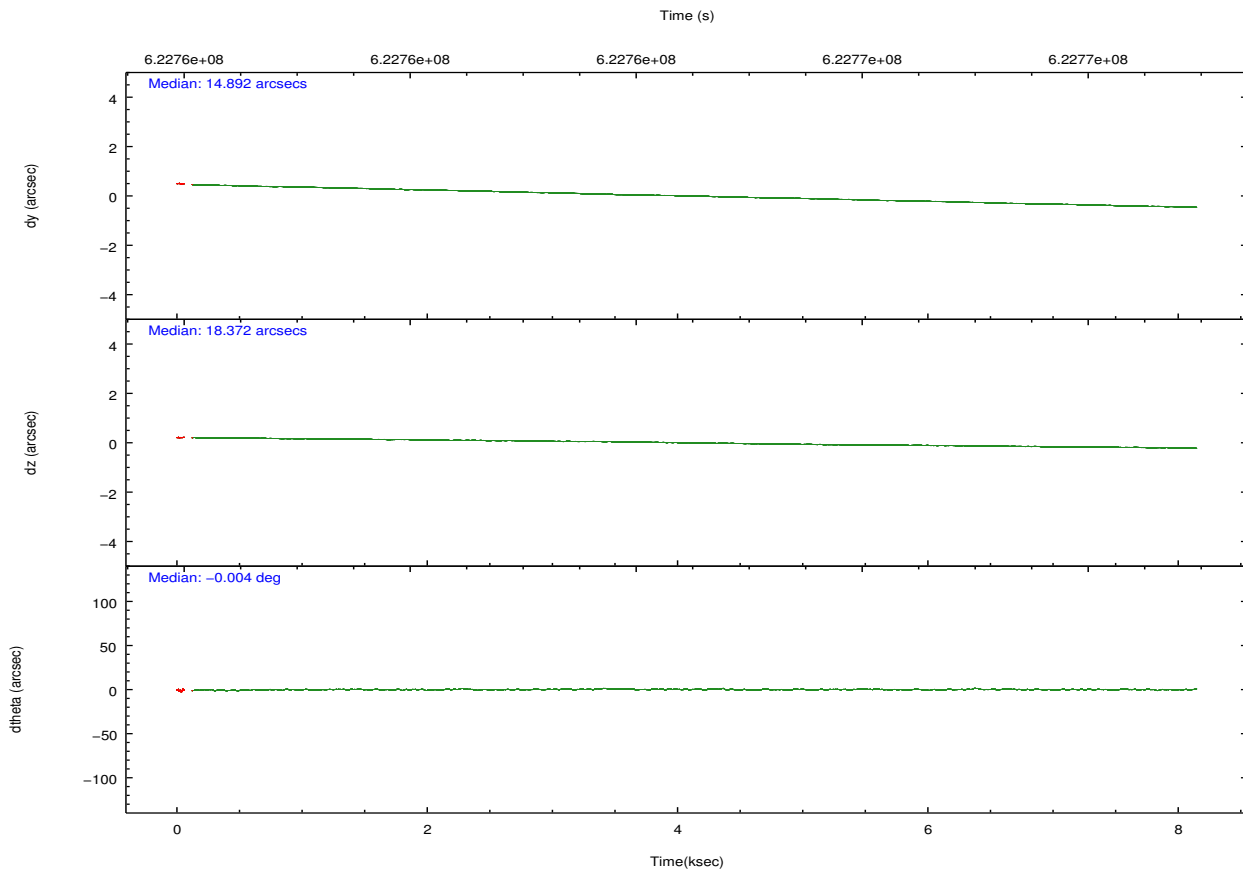
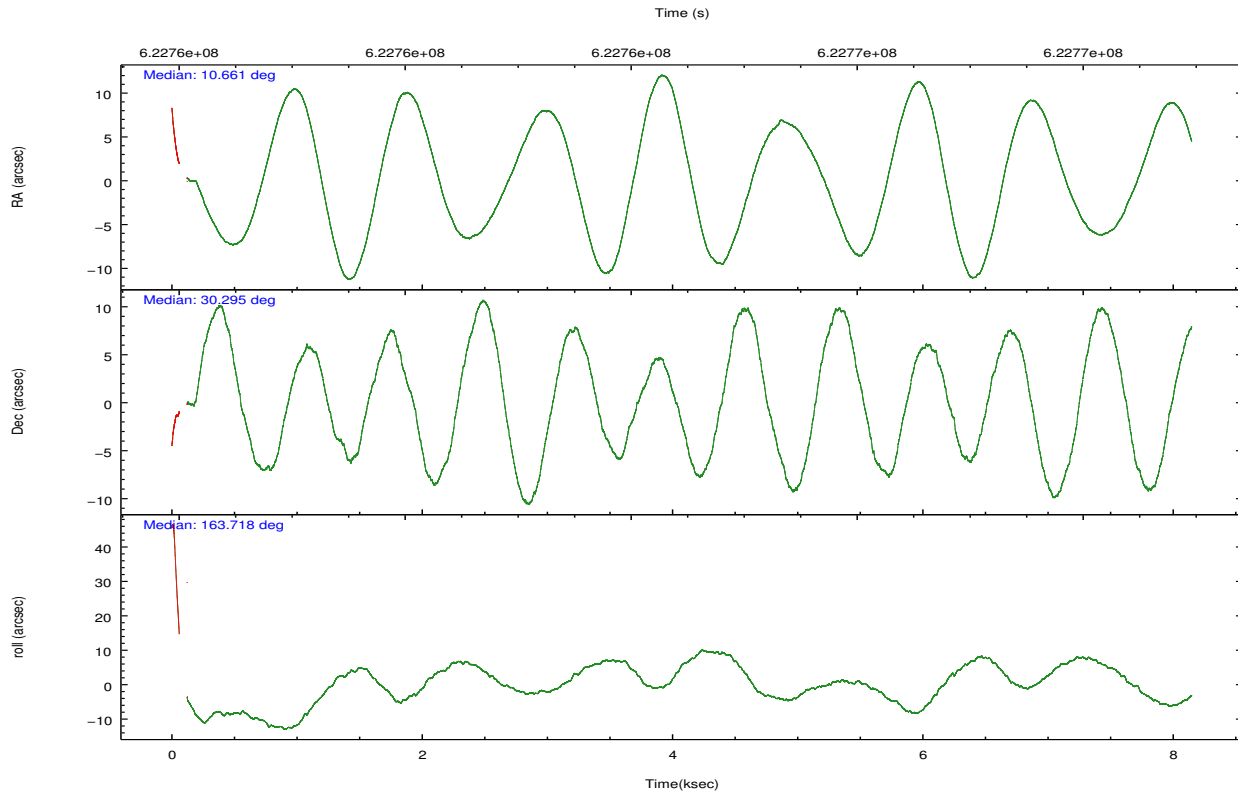
	<b>ccd 7</b>
grade 0 events	1254
	9%
grade 1 events	36
	0%
grade 2 events	1732
	13%
grade 3 events	1104
	8%
grade 4 events	1030
	7%
grade 5 events	980
	7%
grade 6 events	3102
	23%
grade 7 events	4060
	30%

## 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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	10.691669	10.66090328420671	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	30.301469	30.29460416491082	Subarray start row	449	449
[deg] Pointing Roll	163.553600	163.7258382815176	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	622760523.184000	622759215.2847199			
Observation start date	2017-09-25T21:00:54	2017-09-25T20:40:15			
[s] Observation end time (MET)	622768523.184000	622769632.87283			
Observation end date	2017-09-25T23:14:14	2017-09-25T23:33:52			
Read mode	TIMED	TIMED			

## 2.3 Aspect





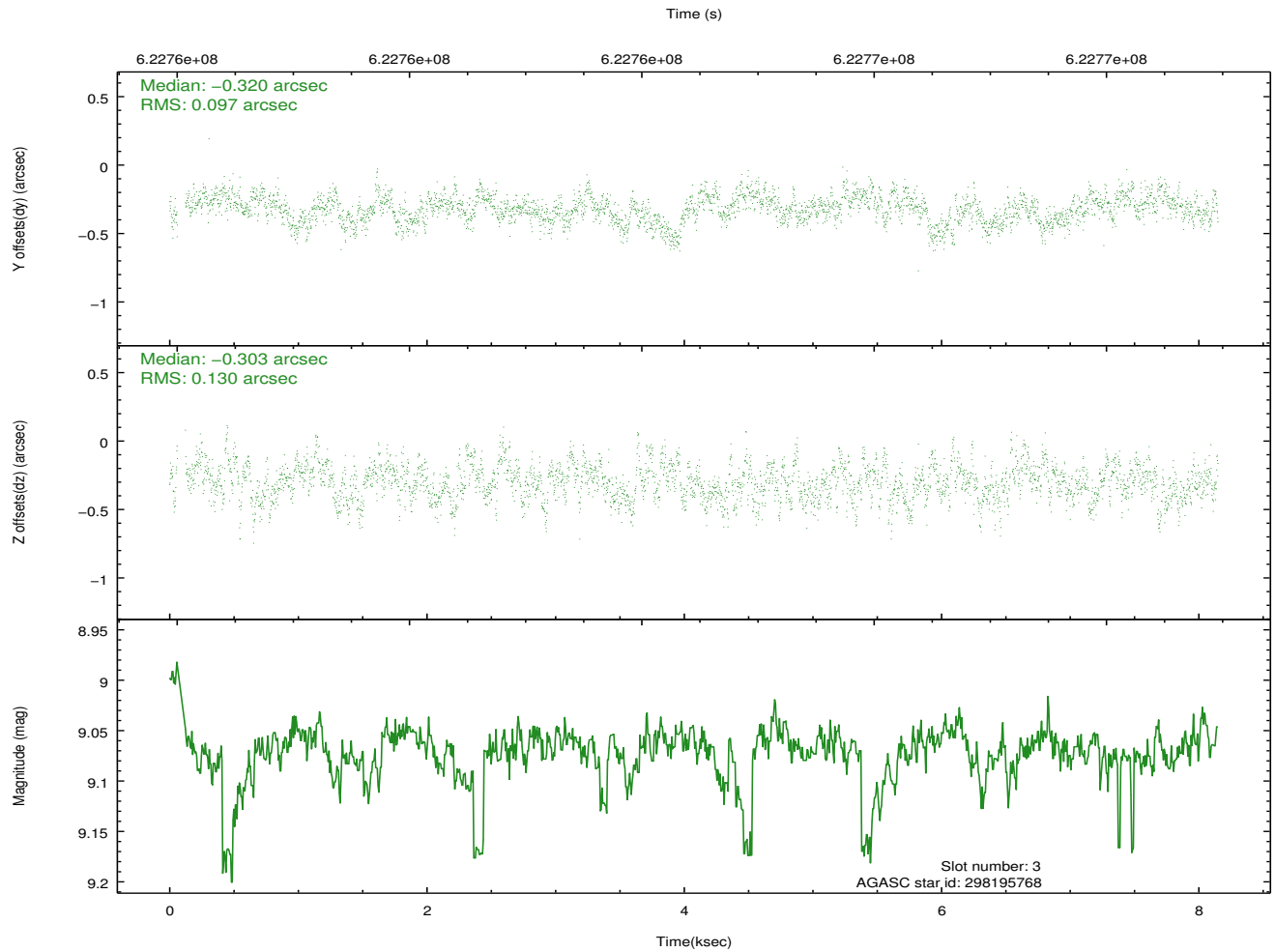
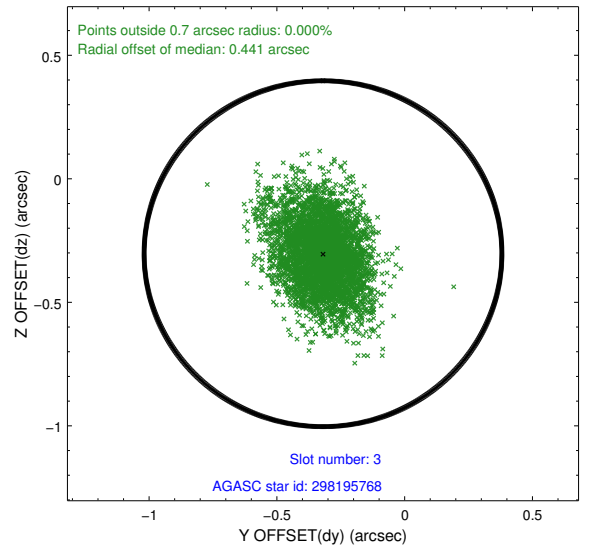
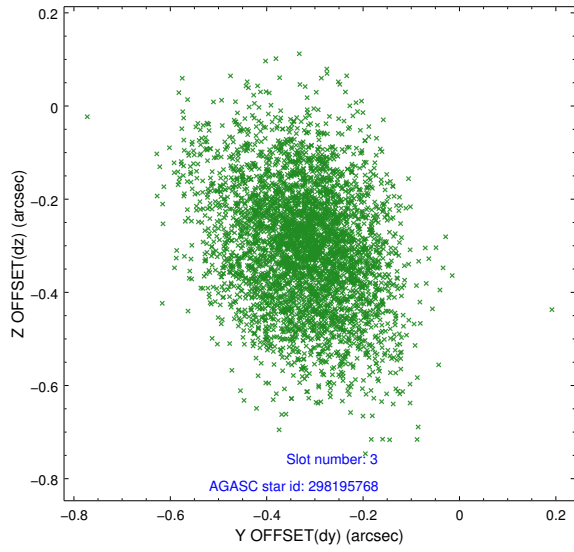
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.15	1973	-0.203	-0.151	0.012	0.020	0.000000	0.000000	-768.07	-1739.99
1	FID		ACIS-S-4	7.26	1973	0.533	0.138	0.010	0.018	0.000000	0.000000	2145.64	168.05
2	FID		ACIS-S-5	7.26	1973	-0.361	0.021	0.008	0.014	0.000000	0.000000	-1820.17	162.41
3	GUIDE	used	298195768	9.07	3939	-0.320	-0.303	0.172	0.290	10.165053	30.006436	1275.22	1480.12
4	GUIDE	used	298202720	8.45	3942	0.020	-0.186	0.127	0.236	10.820402	30.211097	-475.42	198.69
5	GUIDE	used	298322024	8.02	3945	0.116	0.416	0.128	0.225	11.405719	30.336303	-2090.24	-754.62
6	GUIDE	used	298195048	7.79	3944	0.185	0.077	0.167	0.310	10.219710	31.116606	2225.04	-2406.68
7	MONITOR	unused		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

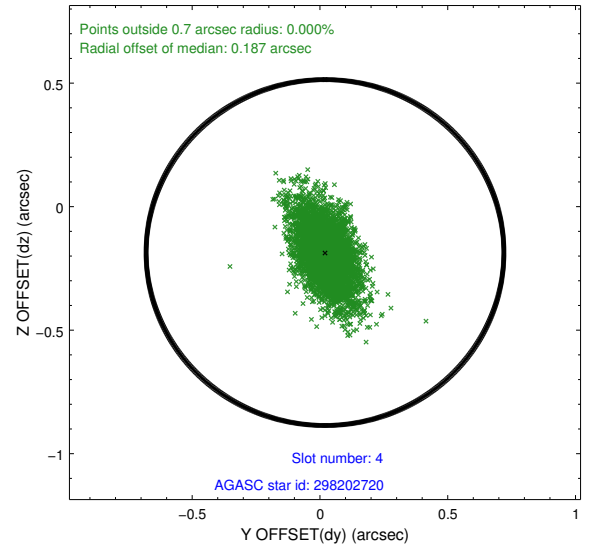
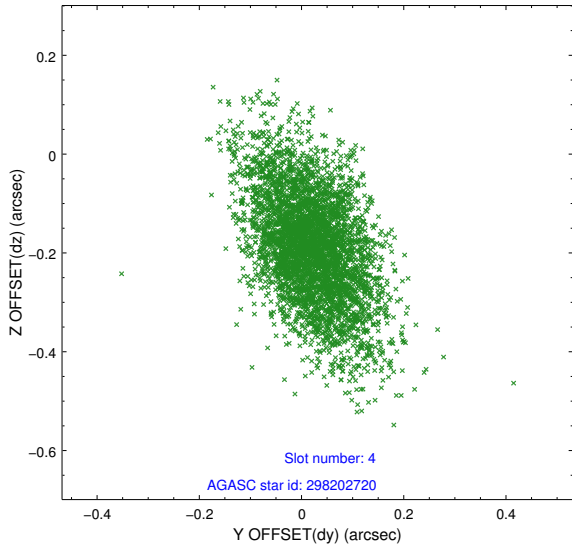
∞

## 2.4 Star Slots

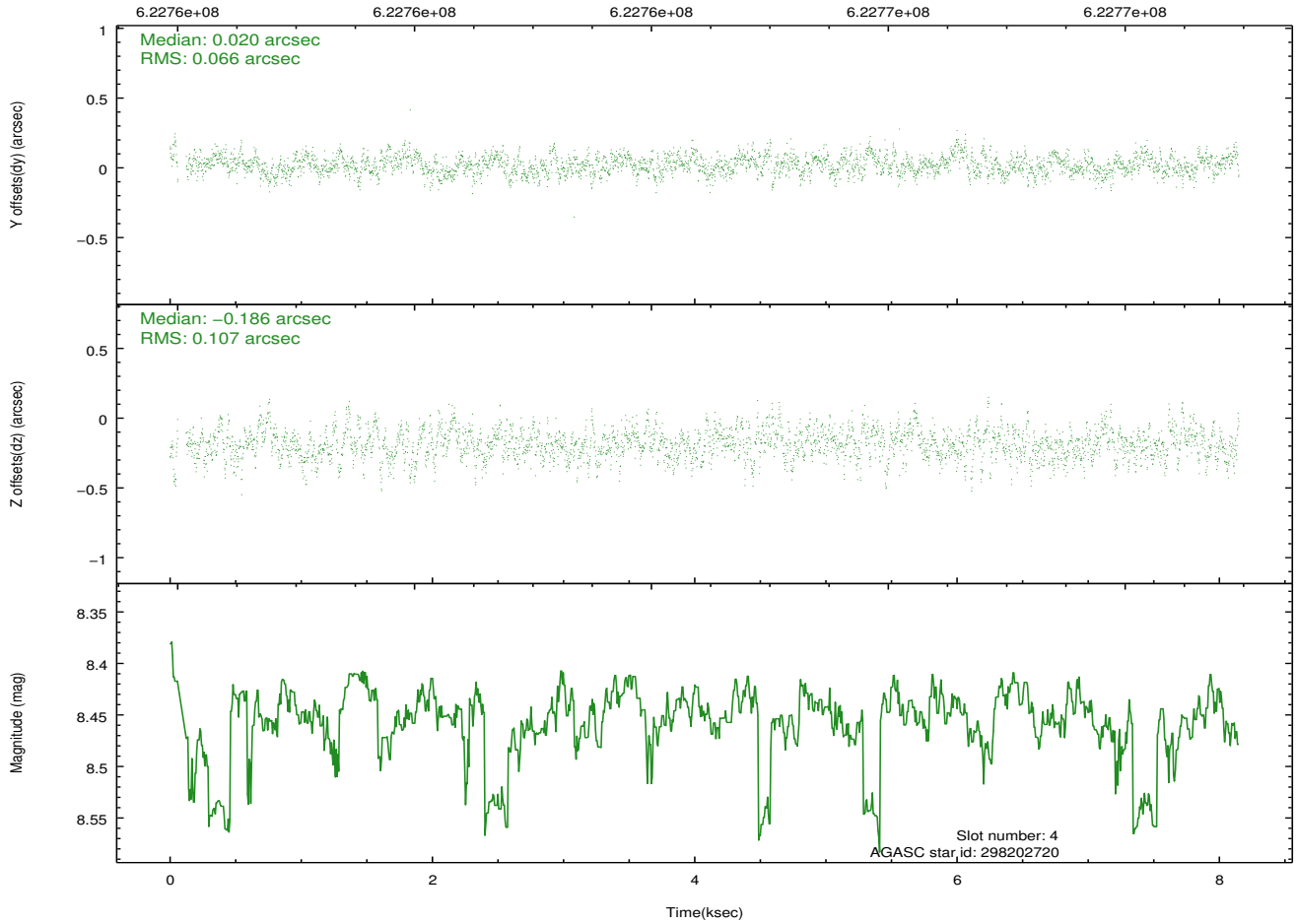
### 2.4.1 Slot 3



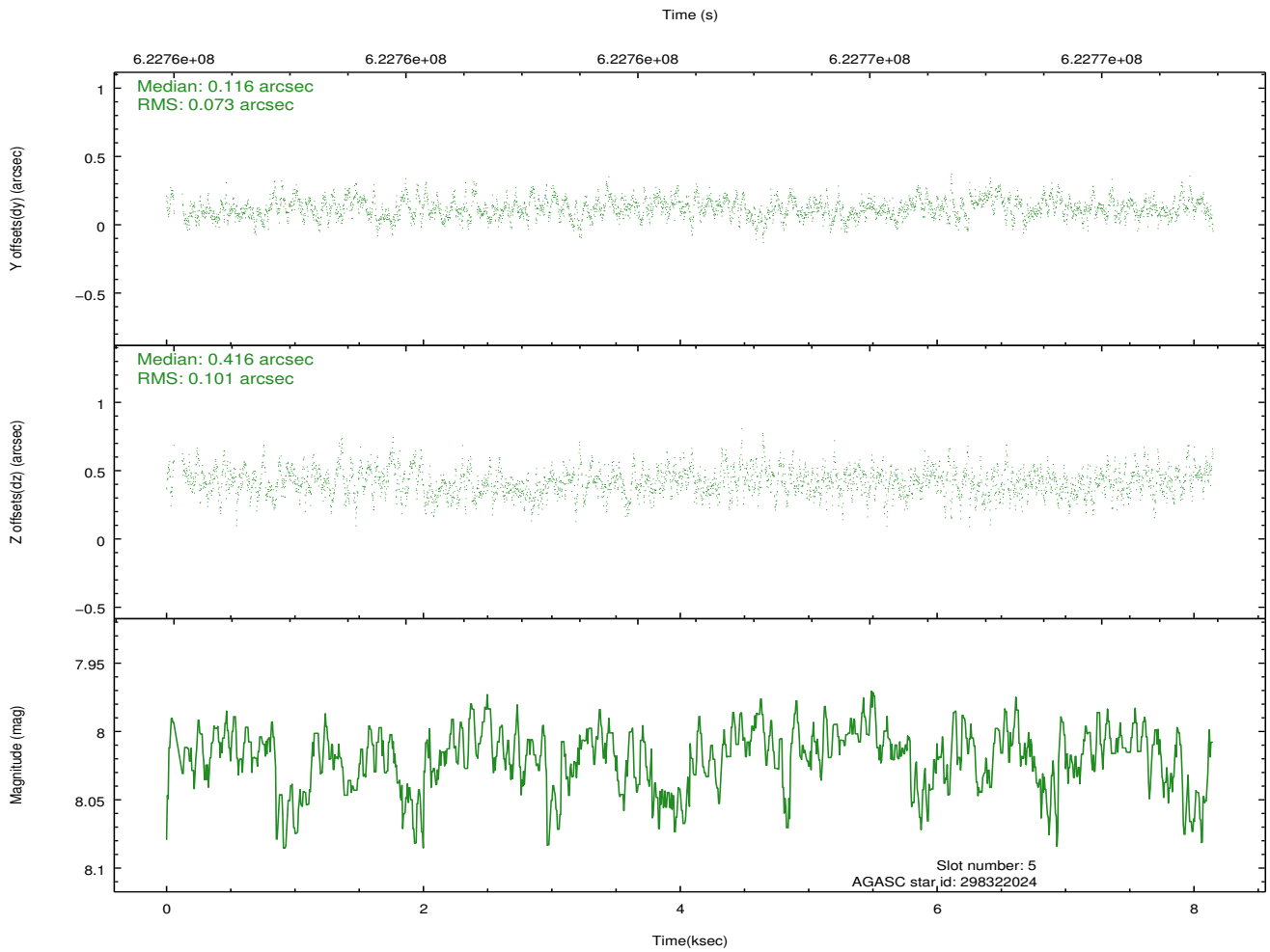
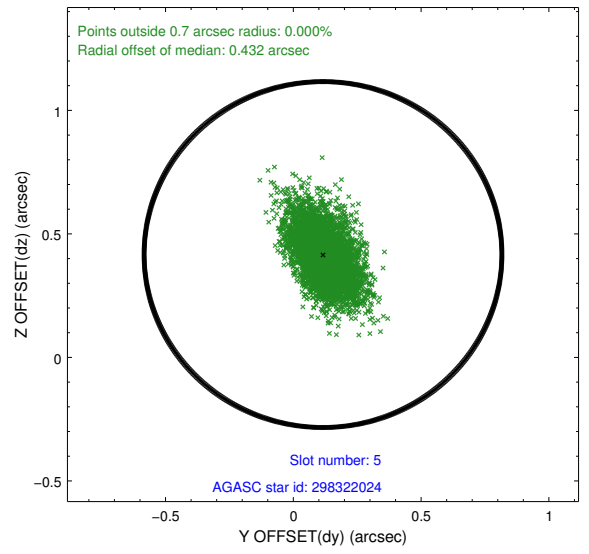
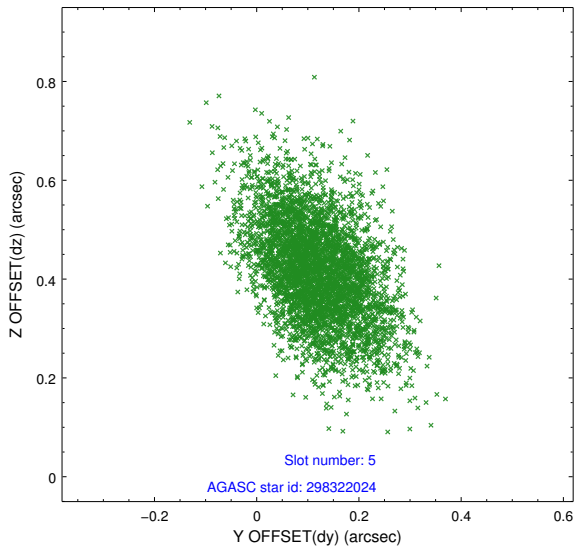
### 2.4.2 Slot 4



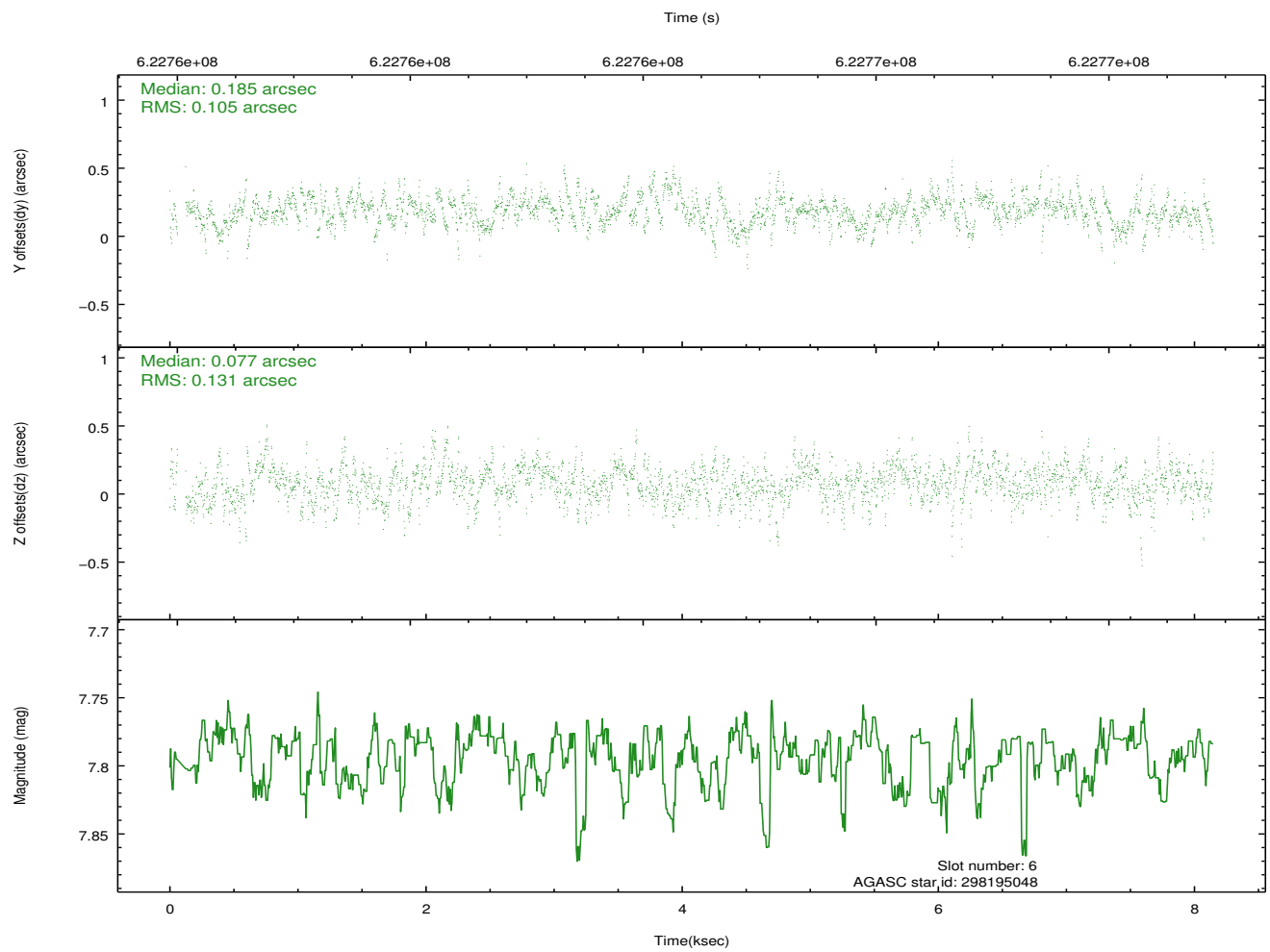
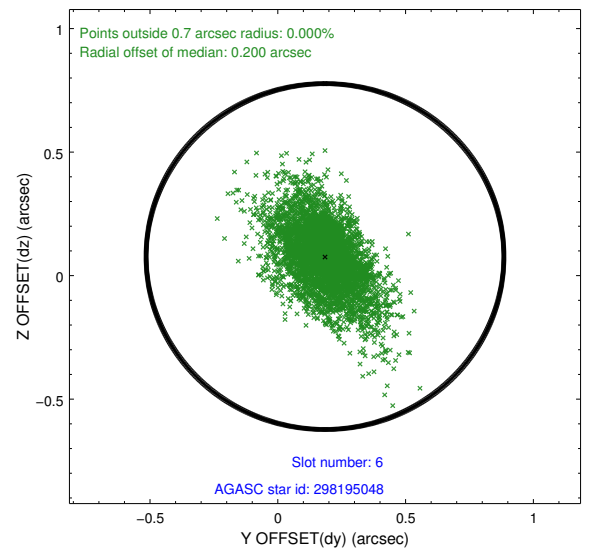
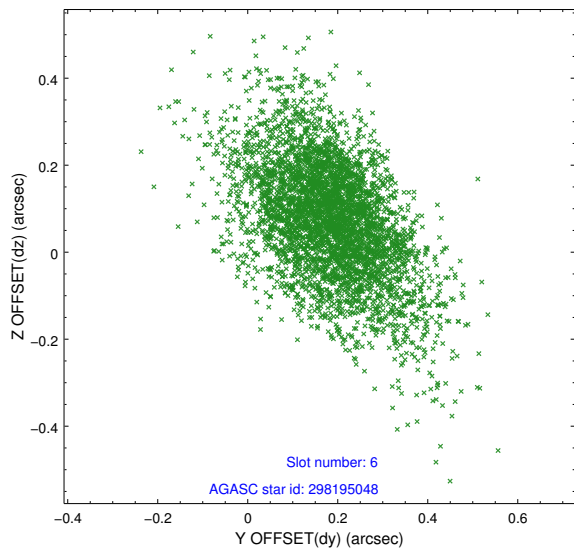
Time (s)



### 2.4.3 Slot 5

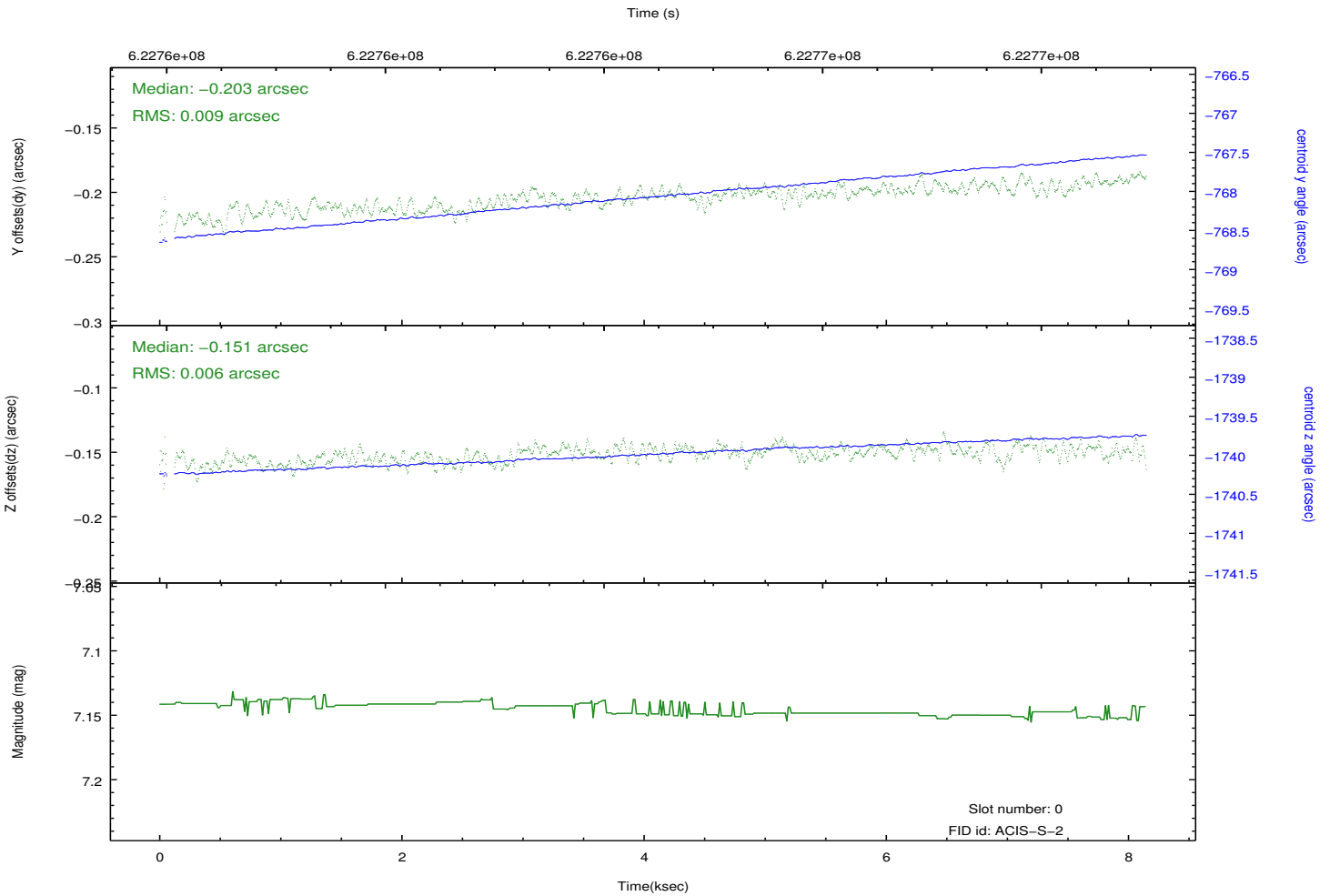
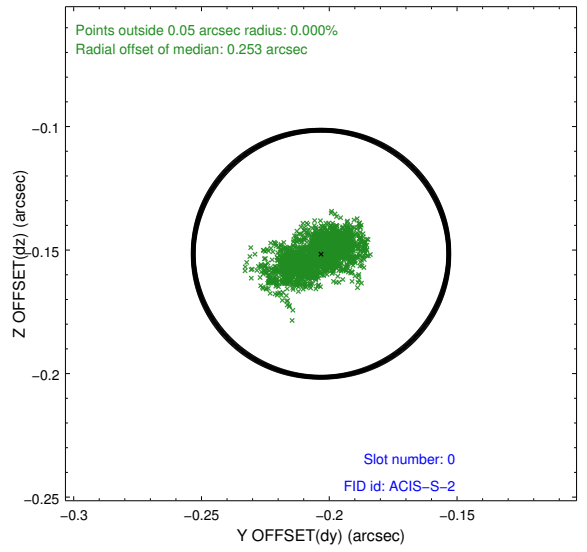
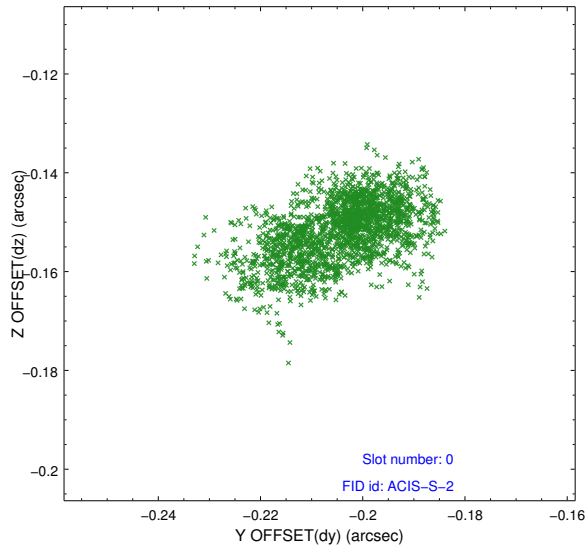


### 2.4.4 Slot 6

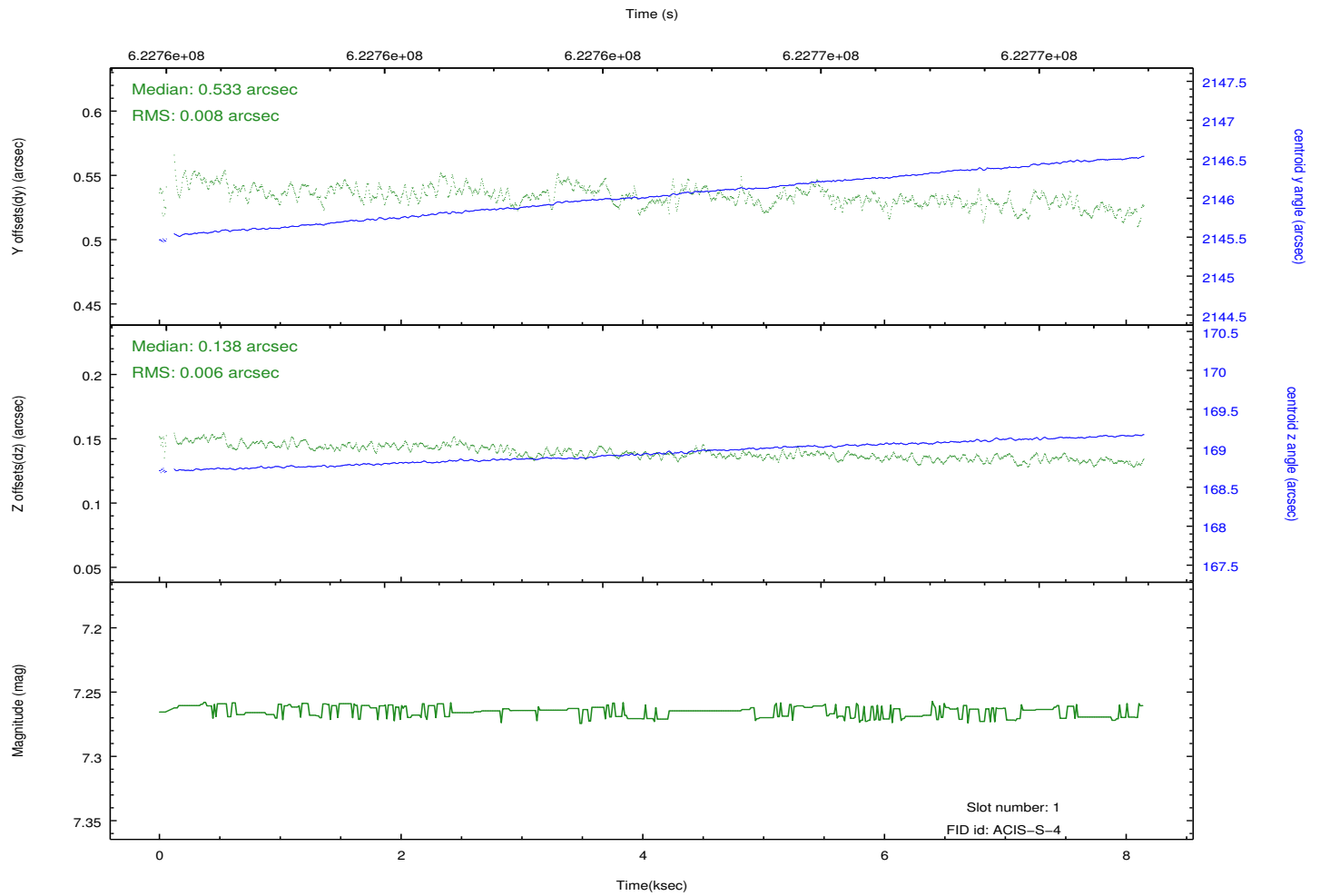
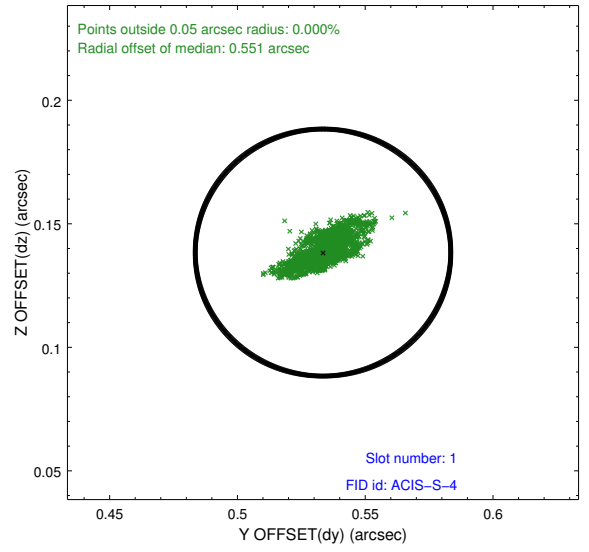
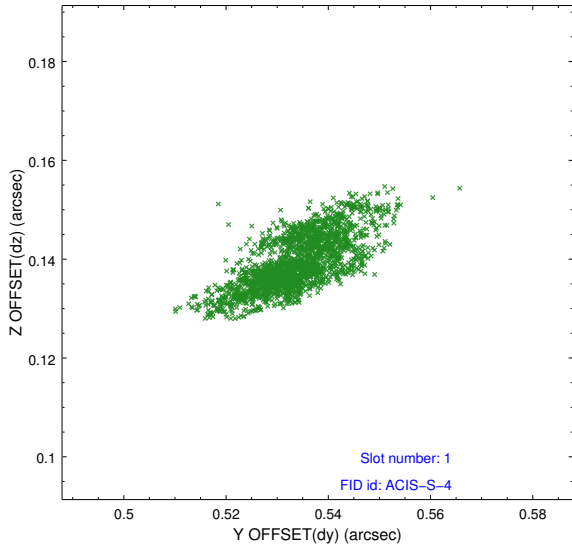


## 2.5 FID Slots

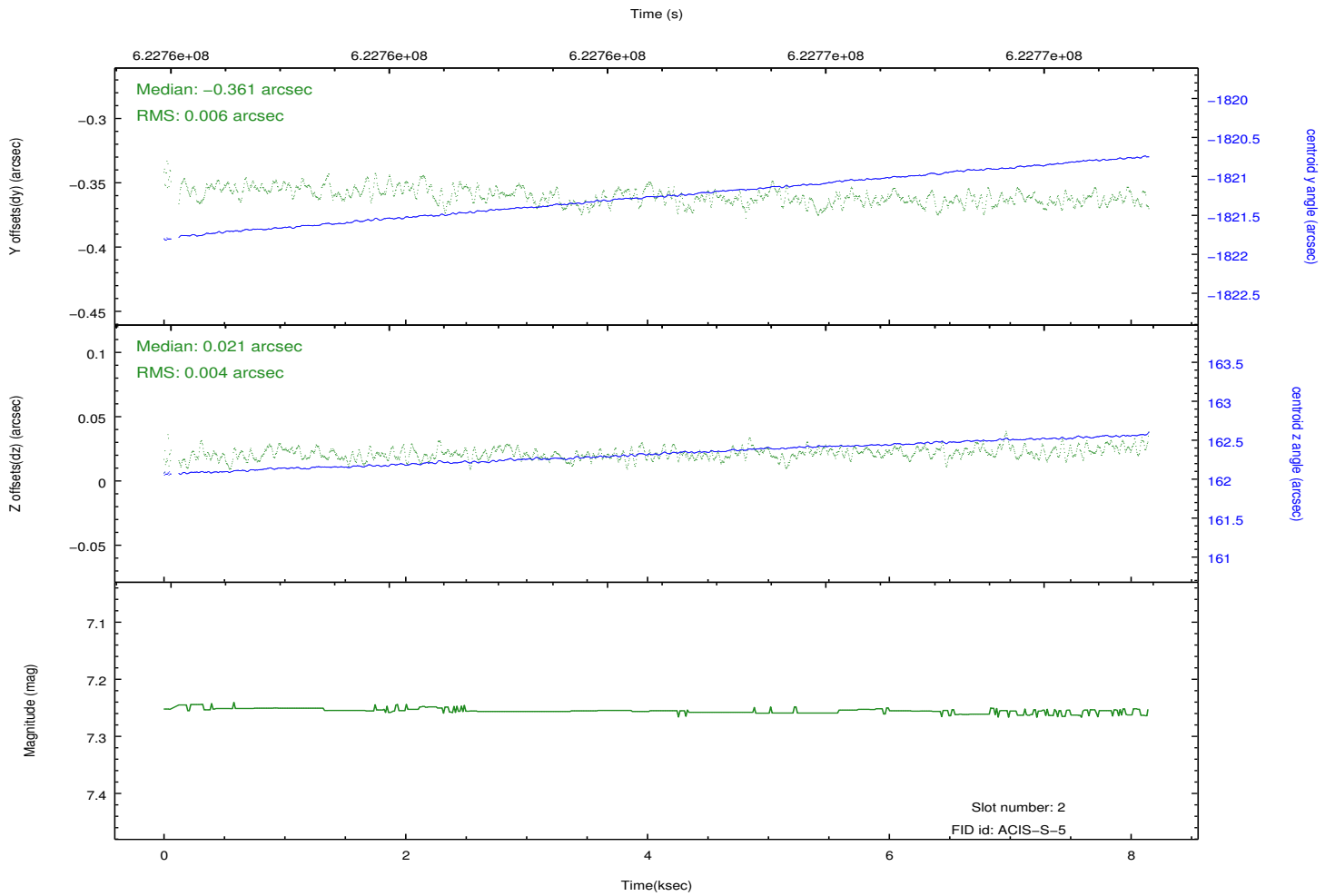
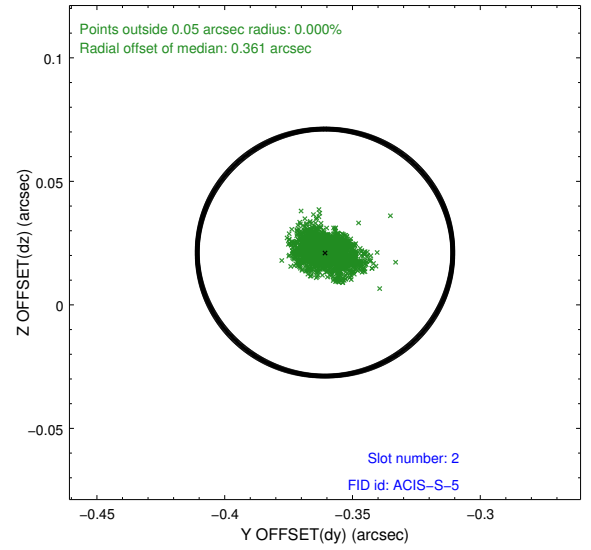
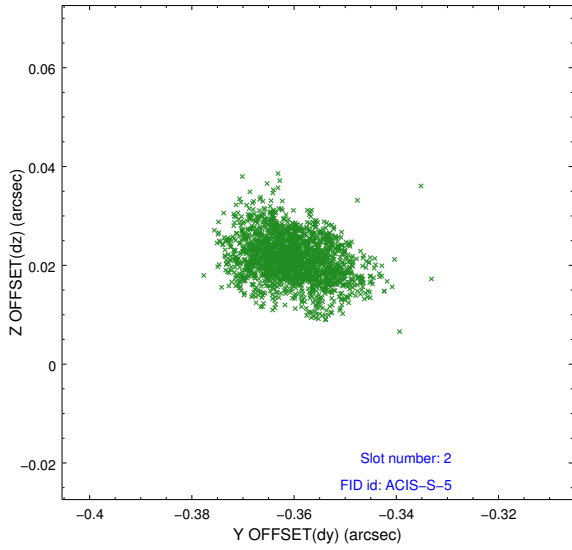
### 2.5.1 Slot 0



## 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)	2017.09.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0251995215416

## A.2 Comments

Monitor star was too faint to track. Fid 1 offset is acceptable for Aspect.