

# V&V Reference Report

## L2 ASCDS Version : 10.7

Observation 21995 - L2 Version 1  
Chandra X-Ray Center

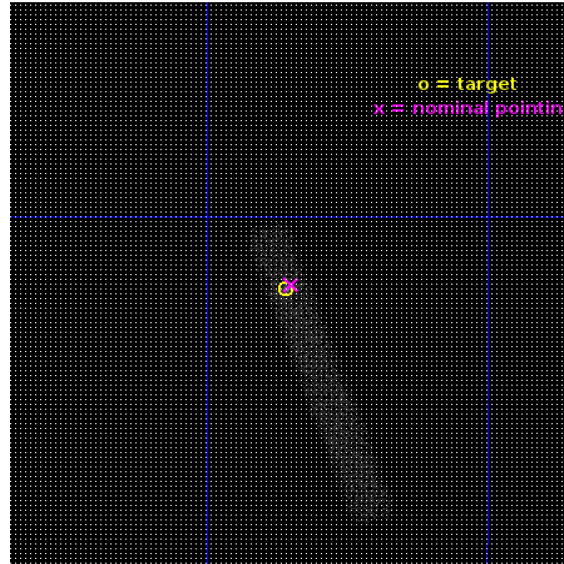
L2 Processing Date : Dec 11 2018

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# 1 Front

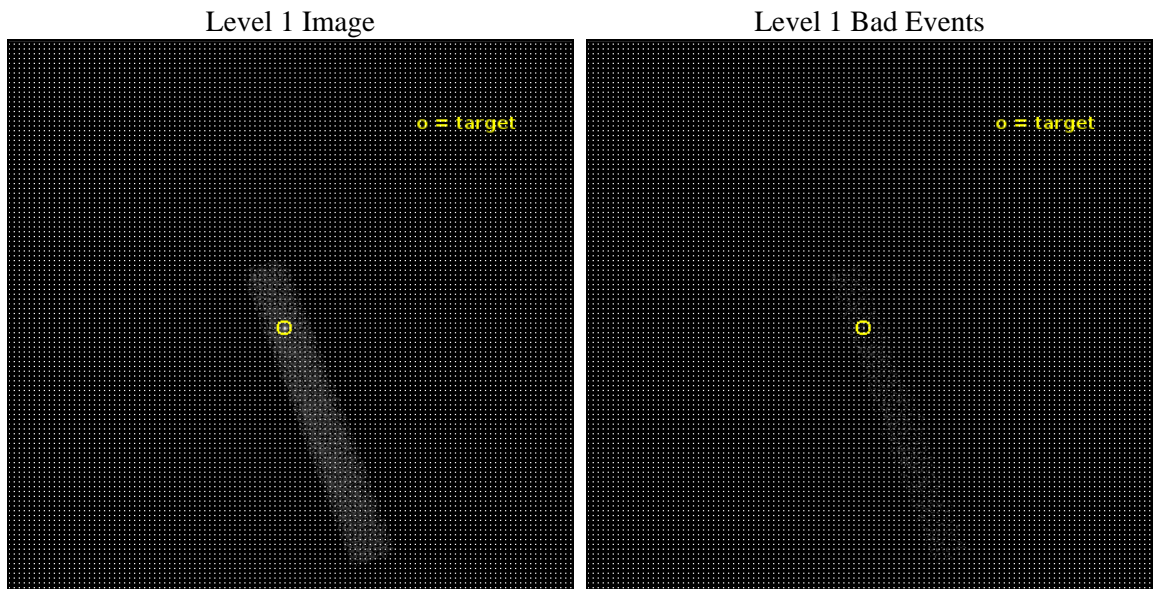
seq_num	703422	Sequence number
obs_id	21995	Observation id
title	MEASURING THE INNERMOST STABLE ORBIT USING MICROLENSING OF THE FE K LINE	Proposal title
observer	George Chartas	Principal investigator
object	RXJ1131-1231	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	172.965	Observer's specified target RA [deg]
dec_targ	-12.5325	Observer's specified target Dec [deg]
ra_nom	172.962401343	Nominal RA [deg]
dec_nom	-12.5308129137	Nominal Dec [deg]
roll_nom	70.156083452927	Nominal Roll [deg]
revision	1	Processing version of data
ontime	12568.799250722	Sum of GTIs [s]
livetime	11399.237484783	Livetime [s]
ontime7	12568.799250722	Sum of GTIs [s]
l2events	13731	Number of level 2 events



## 2 OBI

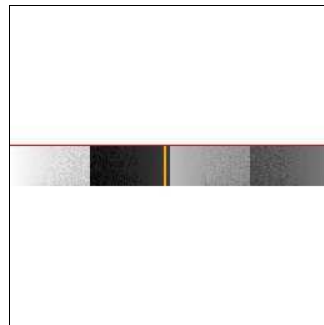
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12500.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	12568.799250722	Sum of GTIs [s]
caldbver	4.8.0.1	&#160	ontime7	12568.799250722	Sum of GTIs [s]
date	2018-12-11T05:51:37	Date and time of file creation	l1events	22489	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

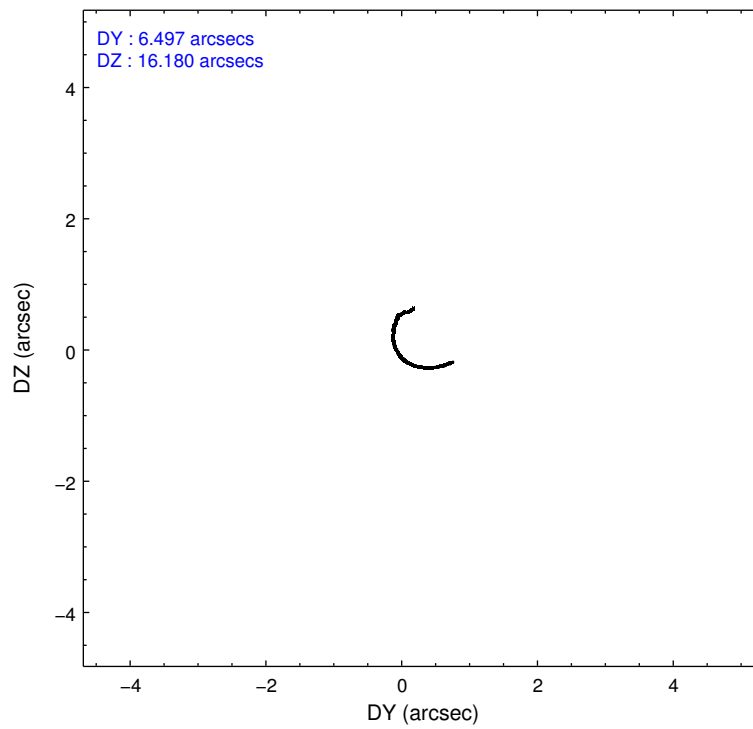
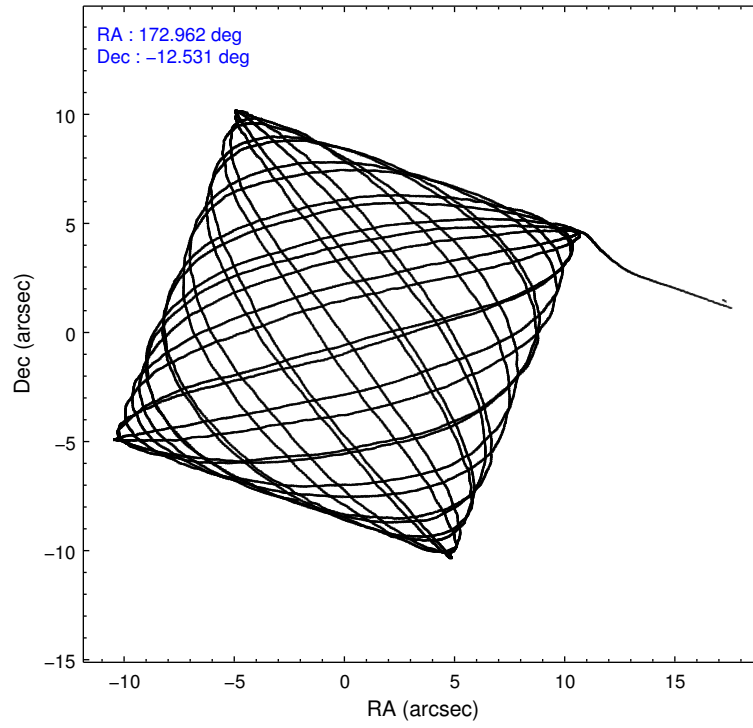
	<b>ccd 7</b>
level 1 events	22489
rejected events	8378
rejected %	37%

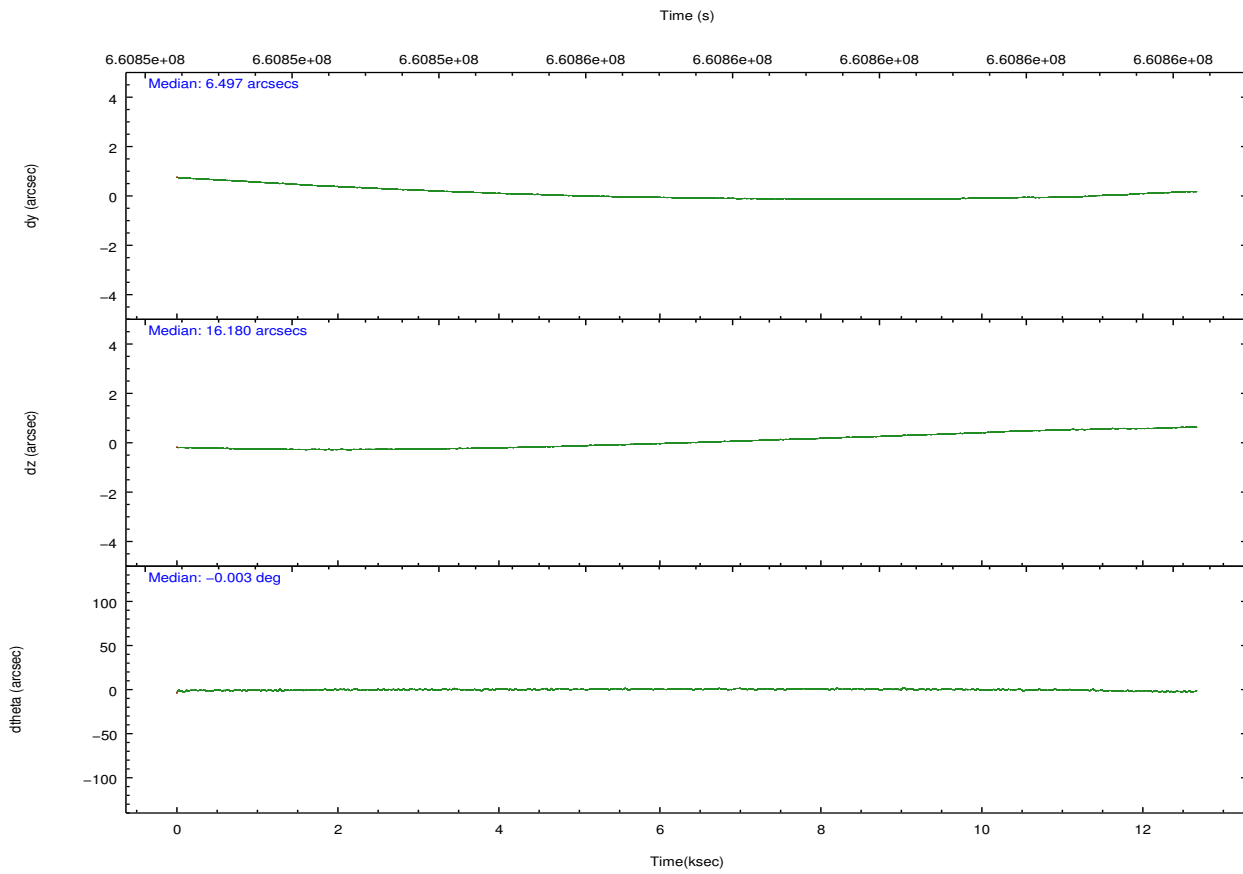
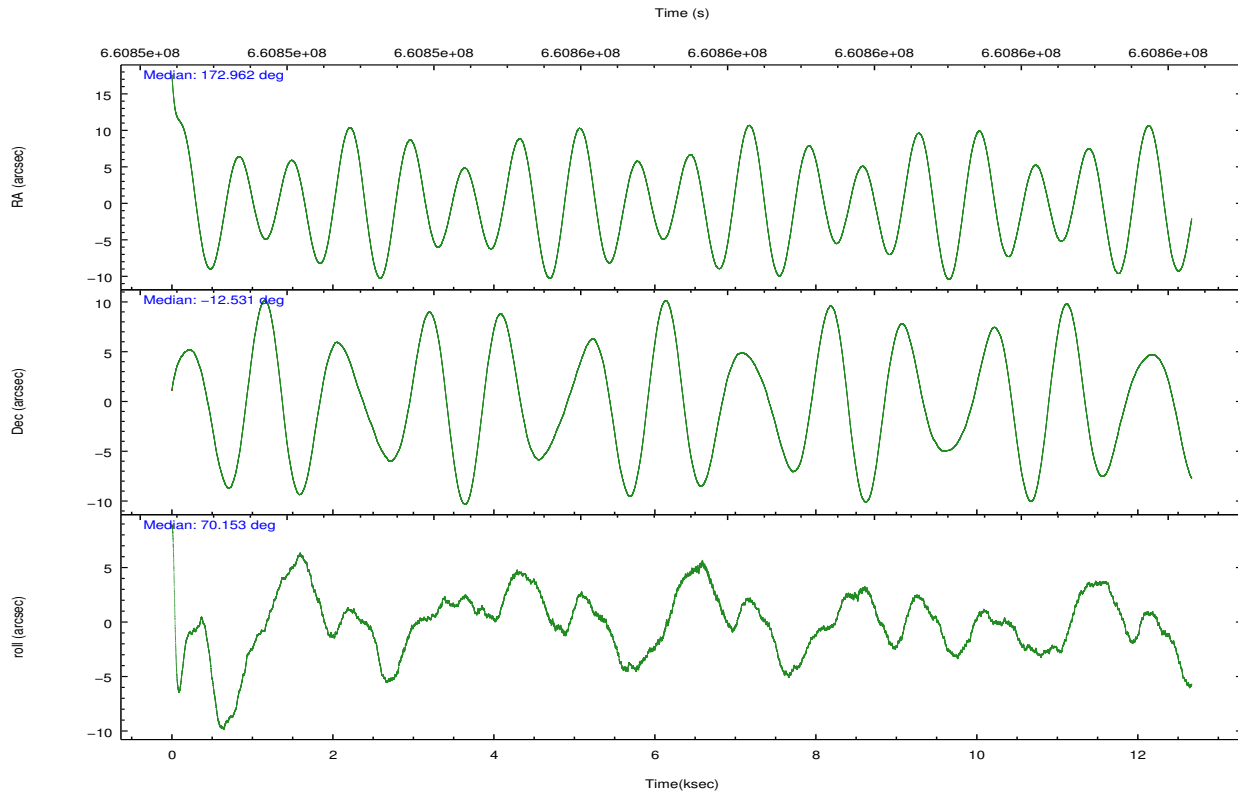
	<b>ccd 7</b>
grade 0 events	2354
	10%
grade 1 events	45
	0%
grade 2 events	3032
	13%
grade 3 events	1743
	7%
grade 4 events	1725
	7%
grade 5 events	1653
	7%
grade 6 events	5260
	23%
grade 7 events	6677
	29%

## 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	172.967714	172.9624013430047	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-12.557782	-12.5308129137003	Subarray start row	449	449
[deg] Pointing Roll	70.000589	70.15608345292688	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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	660851216.184000	660850054.92756			
Observation start date	2018-12-10T17:45:47	2018-12-10T17:27:34			
[s] Observation end time (MET)	660863716.184000	660864730.36593			
Observation end date	2018-12-10T21:14:07	2018-12-10T21:32:10			
Read mode	TIMED	TIMED			

## 2.3 Aspect





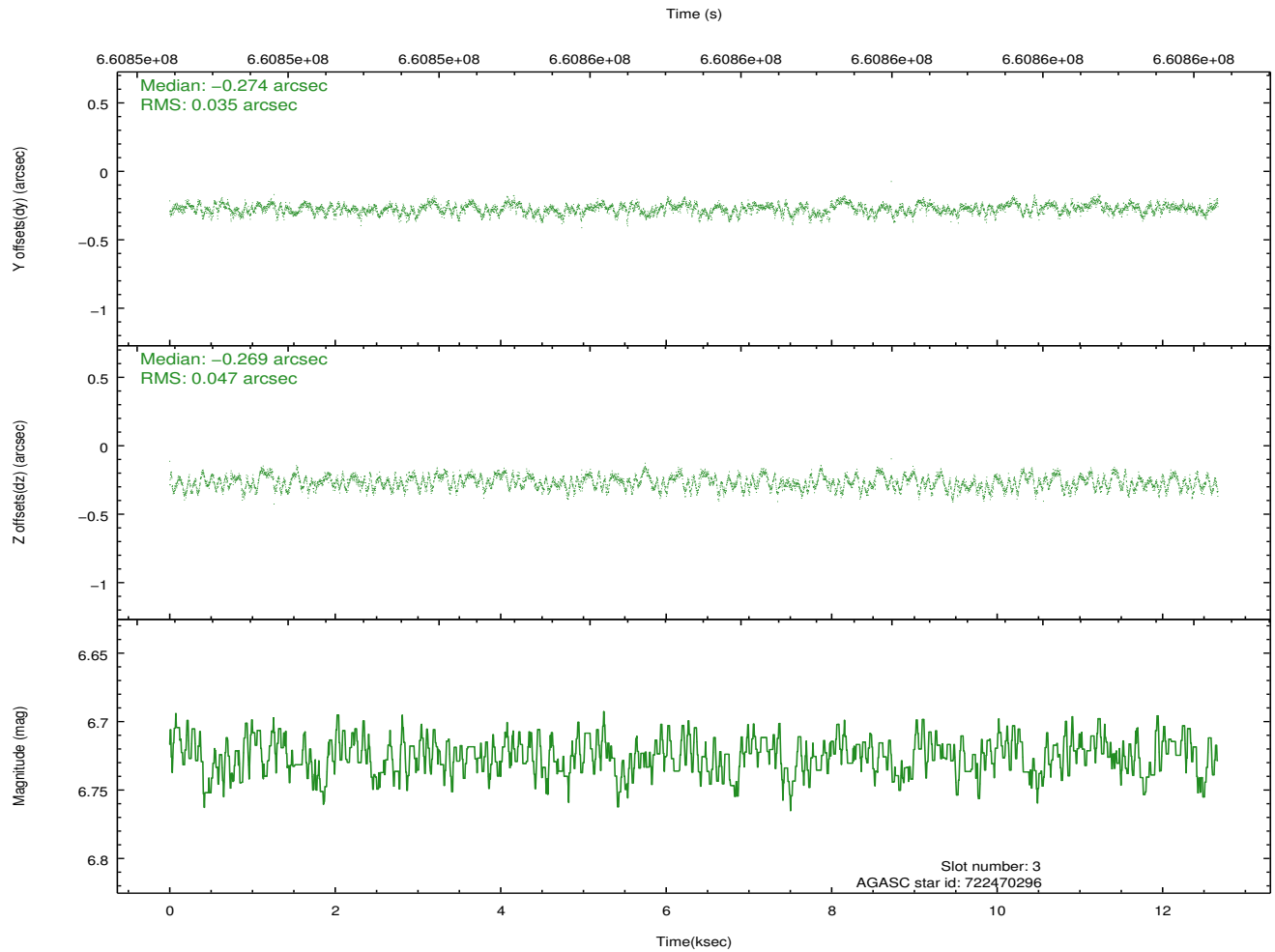
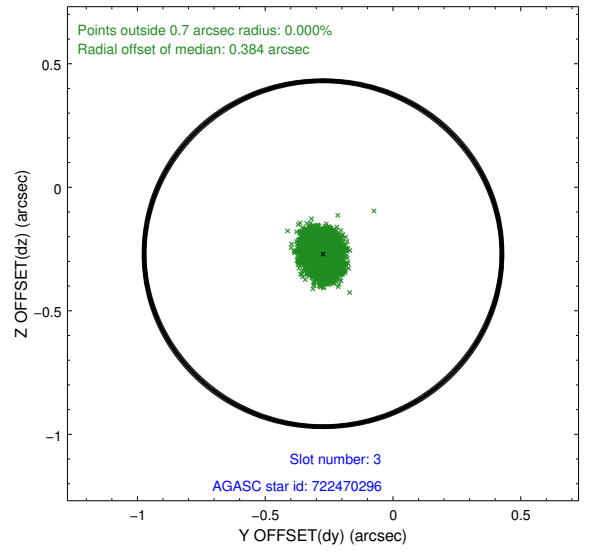
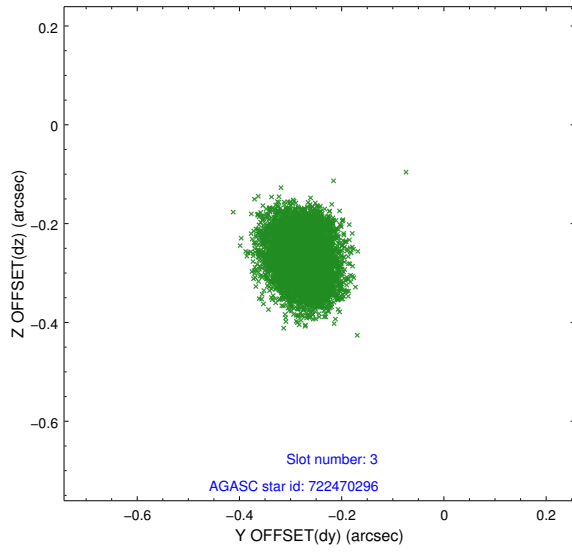
### Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.20	3091	1.000	0.201	-0.008	0.010	0.019	0.000000	0.000000	936.82	-1733
1	FID		ACIS-S-2	7.10	3091	1.000	-0.273	-0.136	0.009	0.015	0.000000	0.000000	-759.34	-1738
2	FID		ACIS-S-6	7.36	3091	1.000	0.052	0.149	0.008	0.014	0.000000	0.000000	402.27	807
3	GUIDE	used	722470296	6.73	6180	1.000	-0.274	-0.269	0.064	0.098	172.921689	-12.381367	541.48	369
4	GUIDE	used	722470568	8.86	6174	1.000	0.045	0.353	0.137	0.213	173.210269	-12.342558	1019.92	-536
5	GUIDE	used	722473176	9.42	6177	1.000	-0.197	-0.476	0.130	0.209	172.599746	-12.066793	1216.91	1821
6	GUIDE	used	722871728	9.59	6169	1.000	0.086	0.365	0.208	0.341	173.202235	-12.568355	246.32	-786
7	GUIDE	used	722873464	7.30	6179	1.000	0.340	0.055	0.104	0.190	172.661543	-13.050266	-2033.92	401

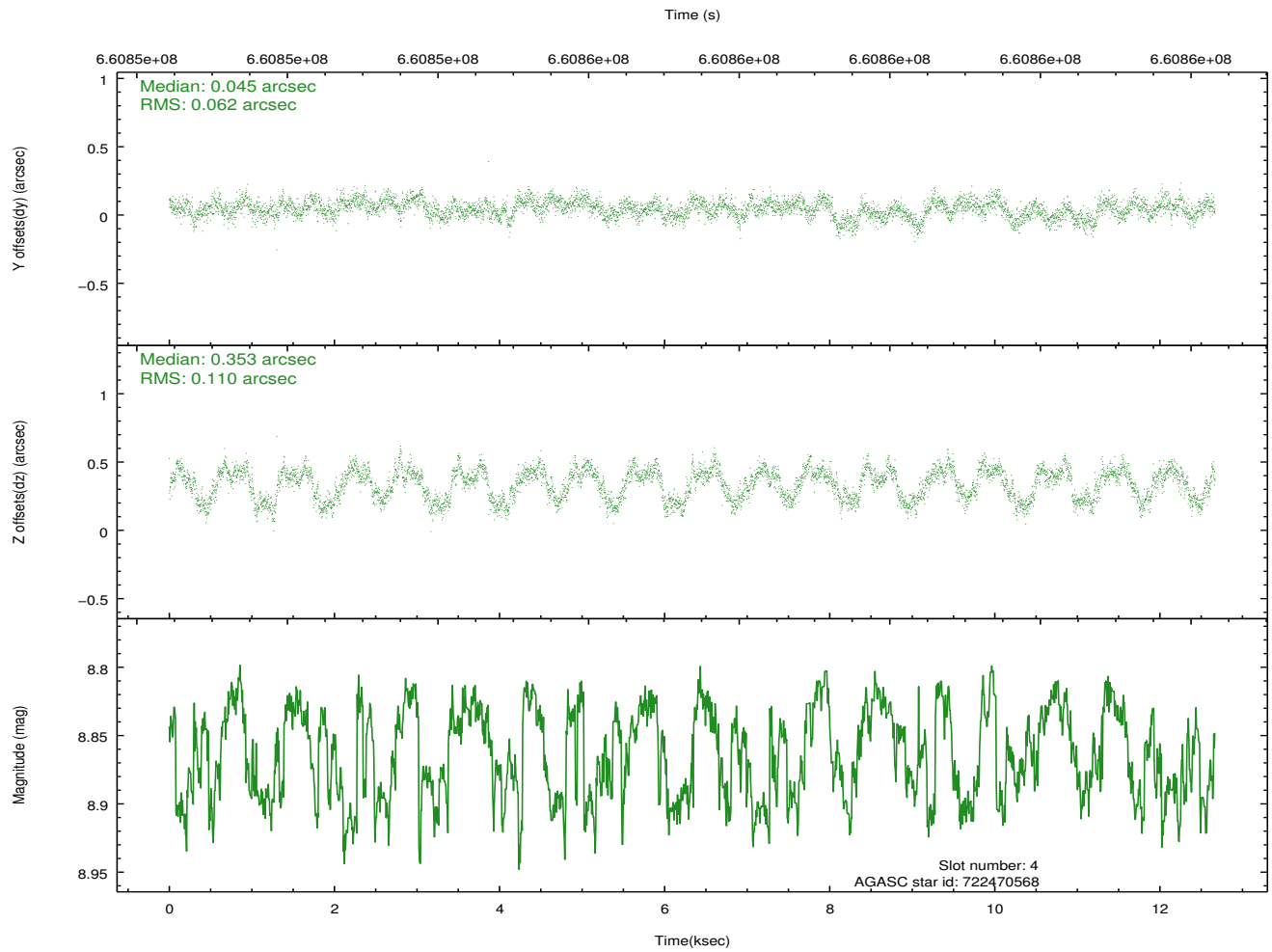
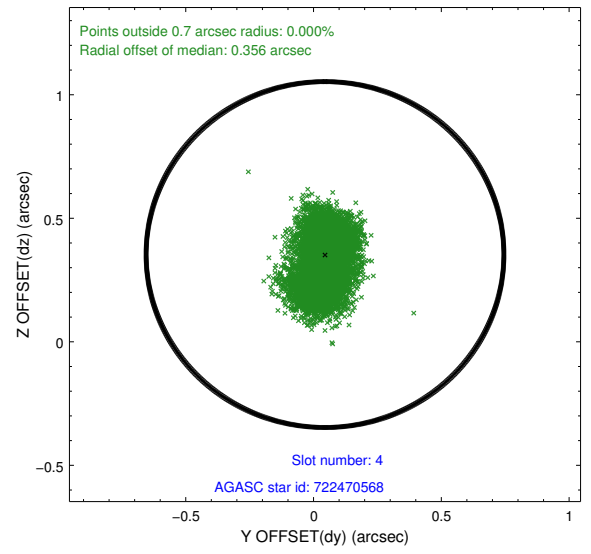
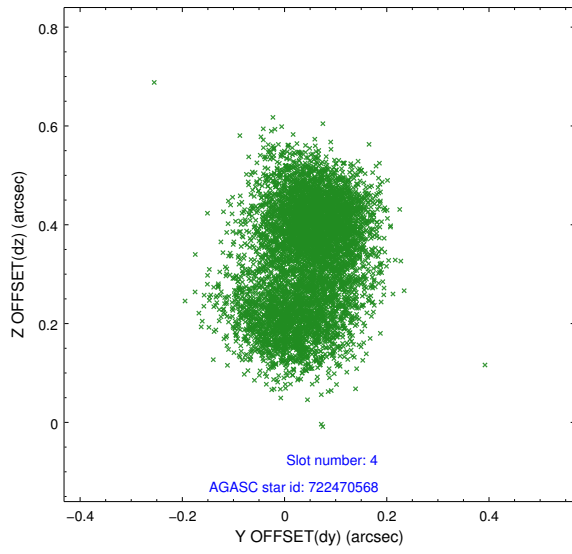
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## 2.4 Star Slots

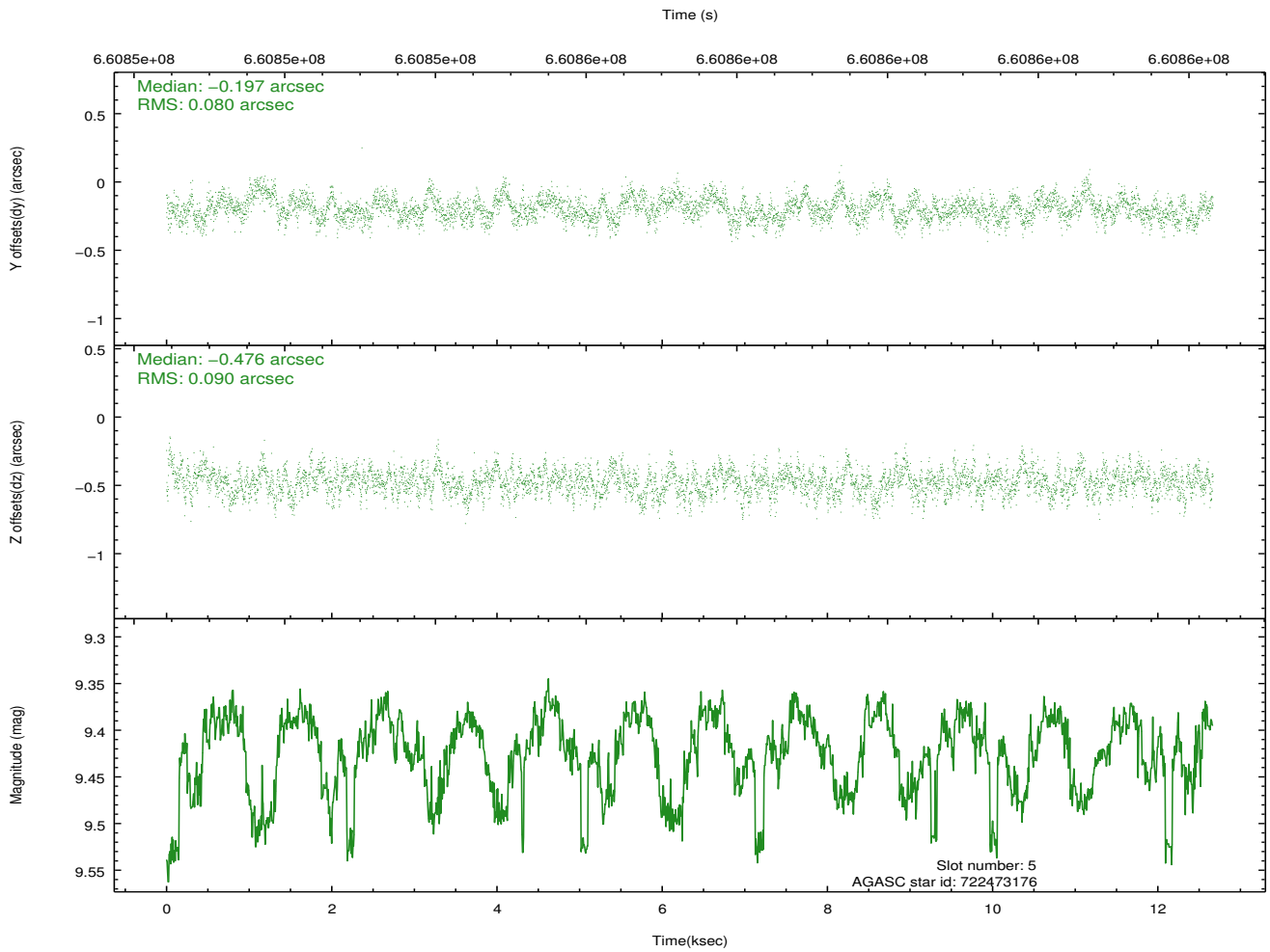
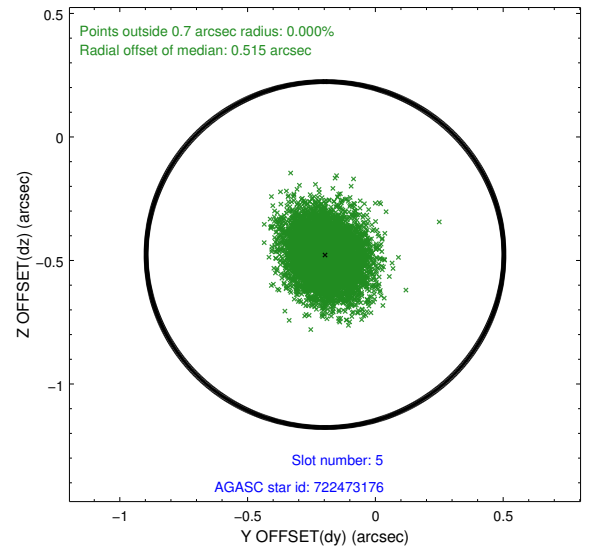
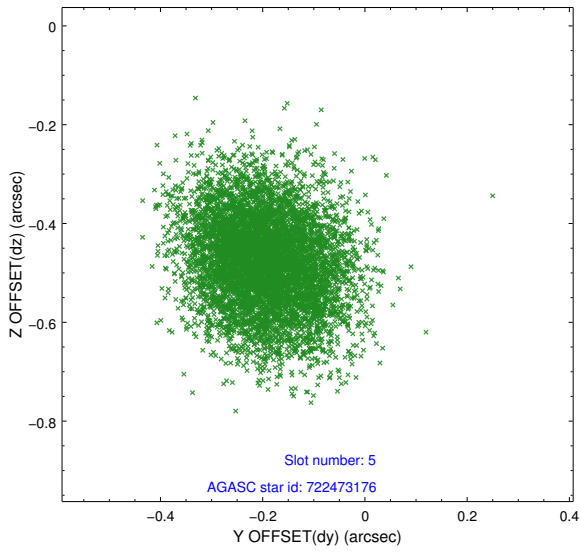
### 2.4.1 Slot 3



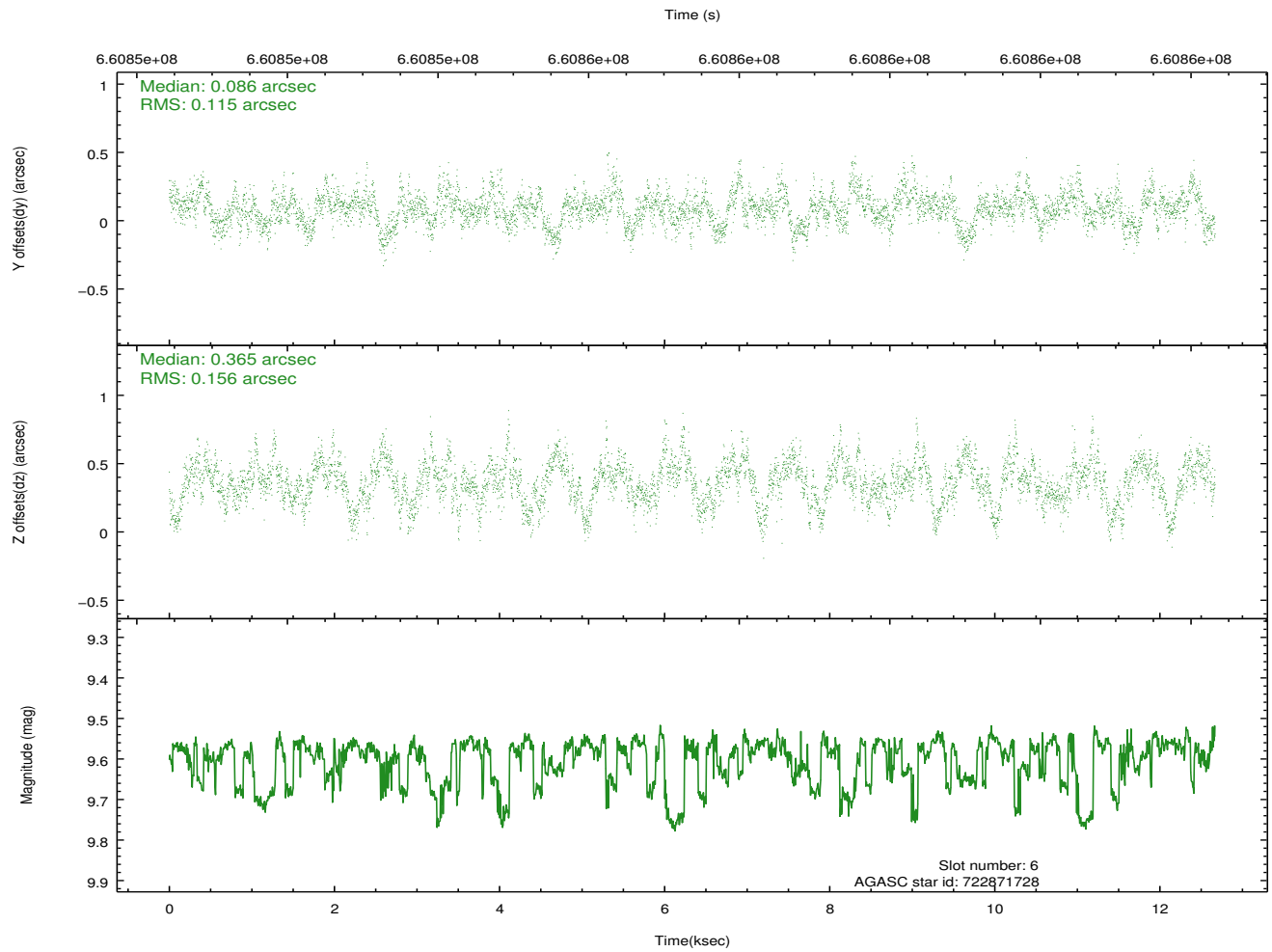
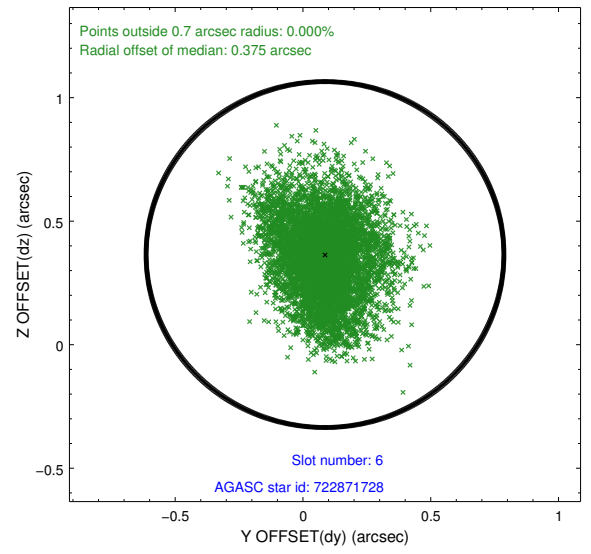
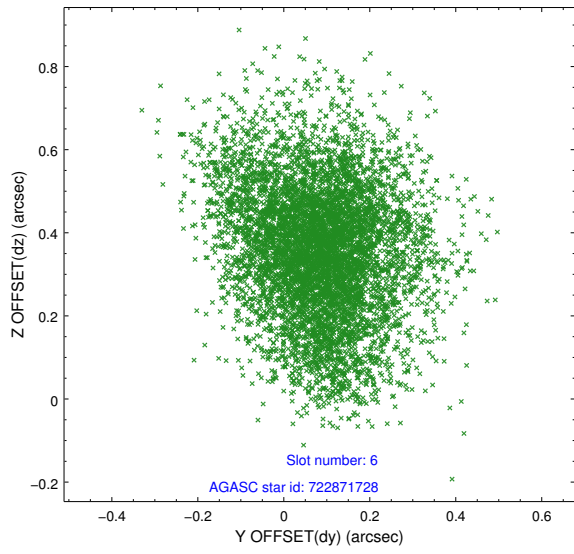
## 2.4.2 Slot 4



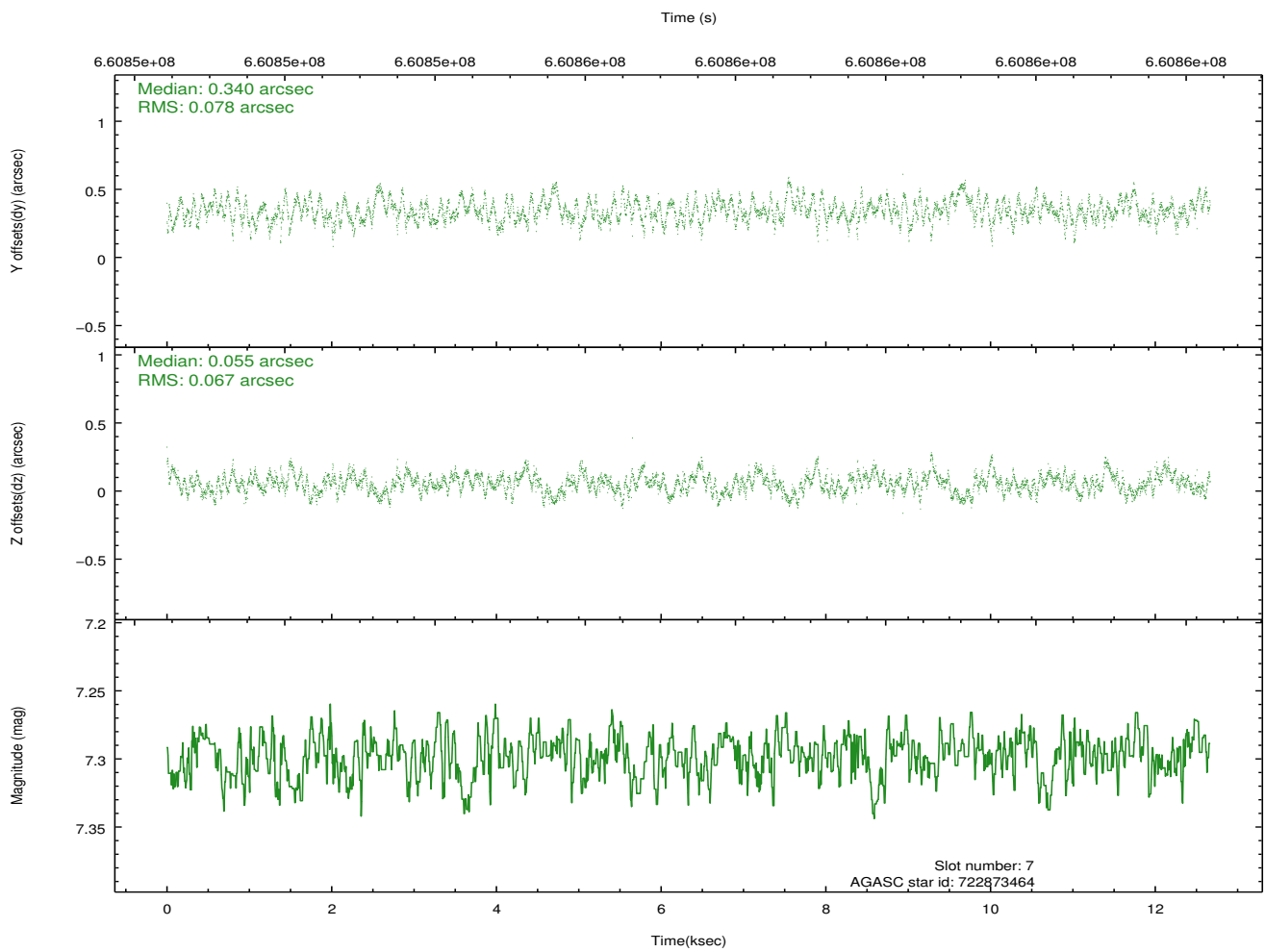
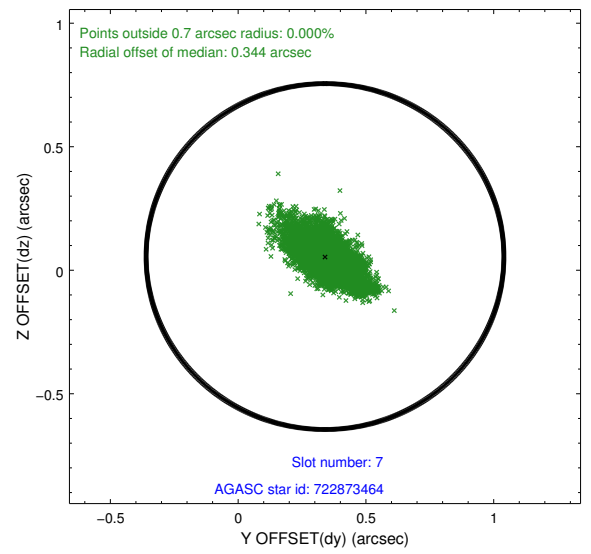
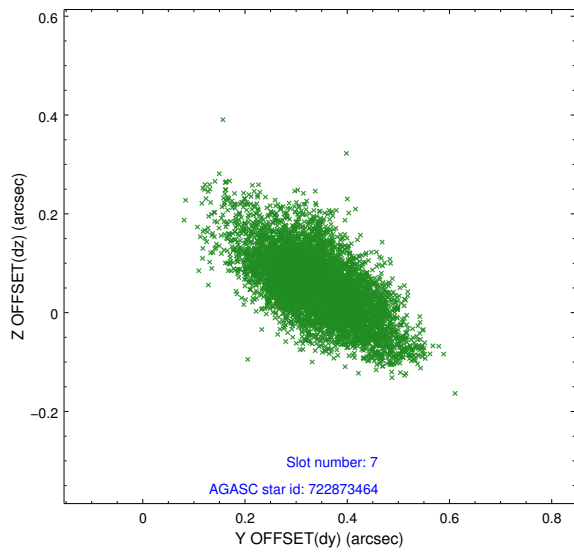
### 2.4.3 Slot 5



## 2.4.4 Slot 6

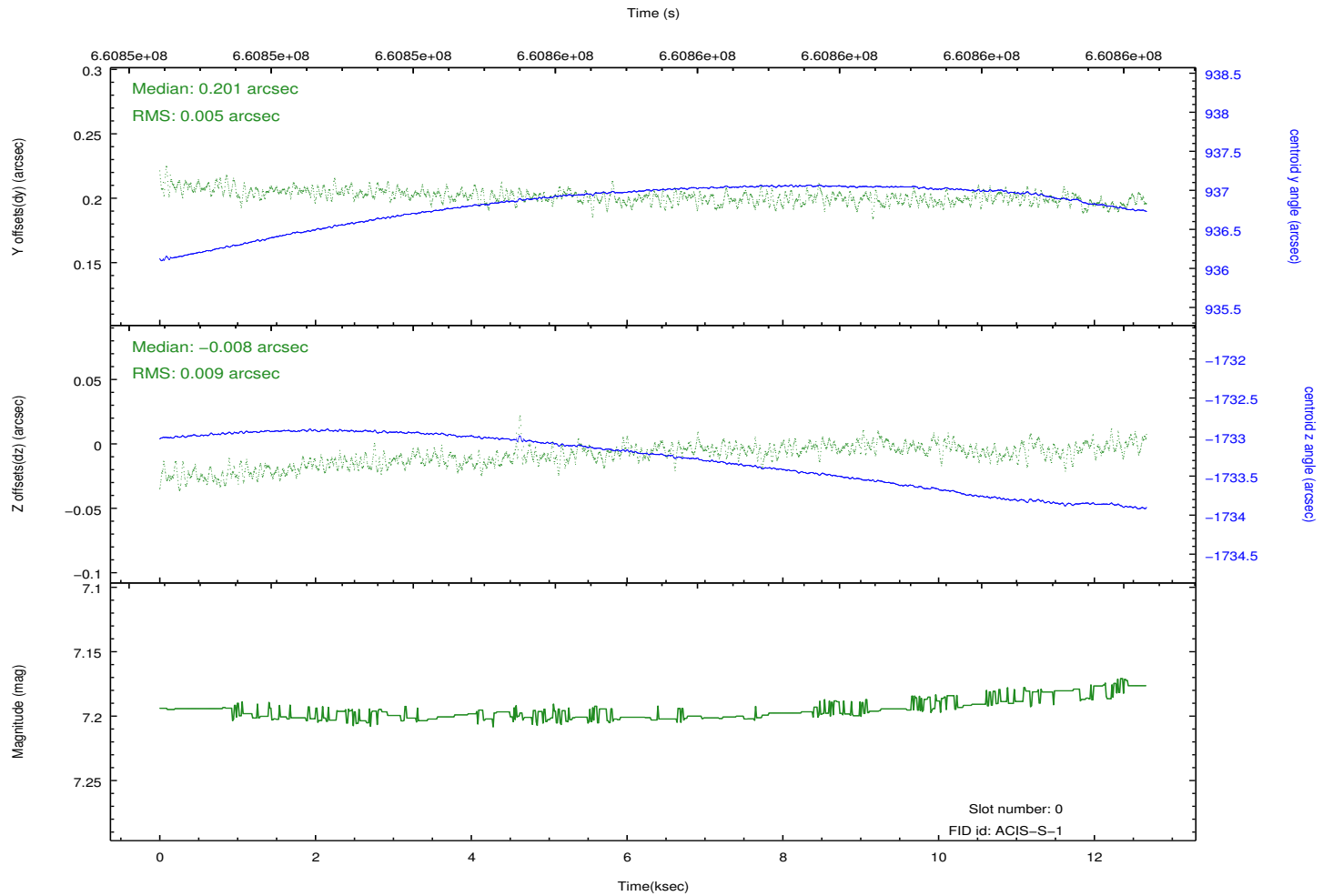
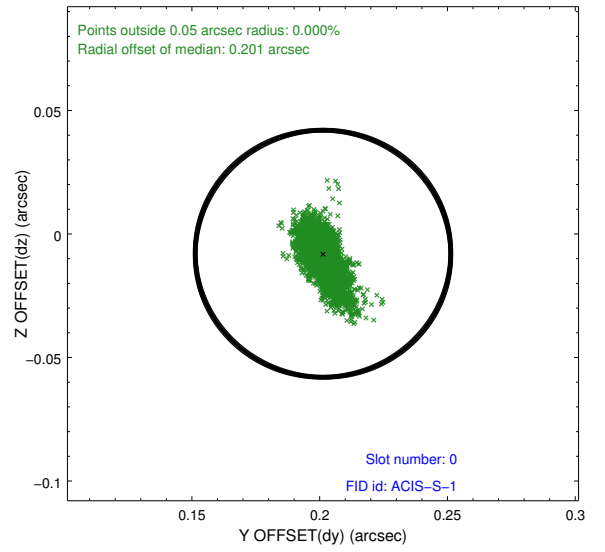
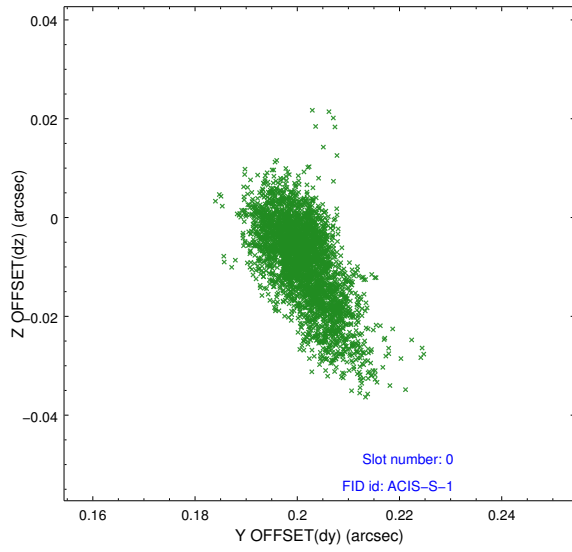


## 2.4.5 Slot 7

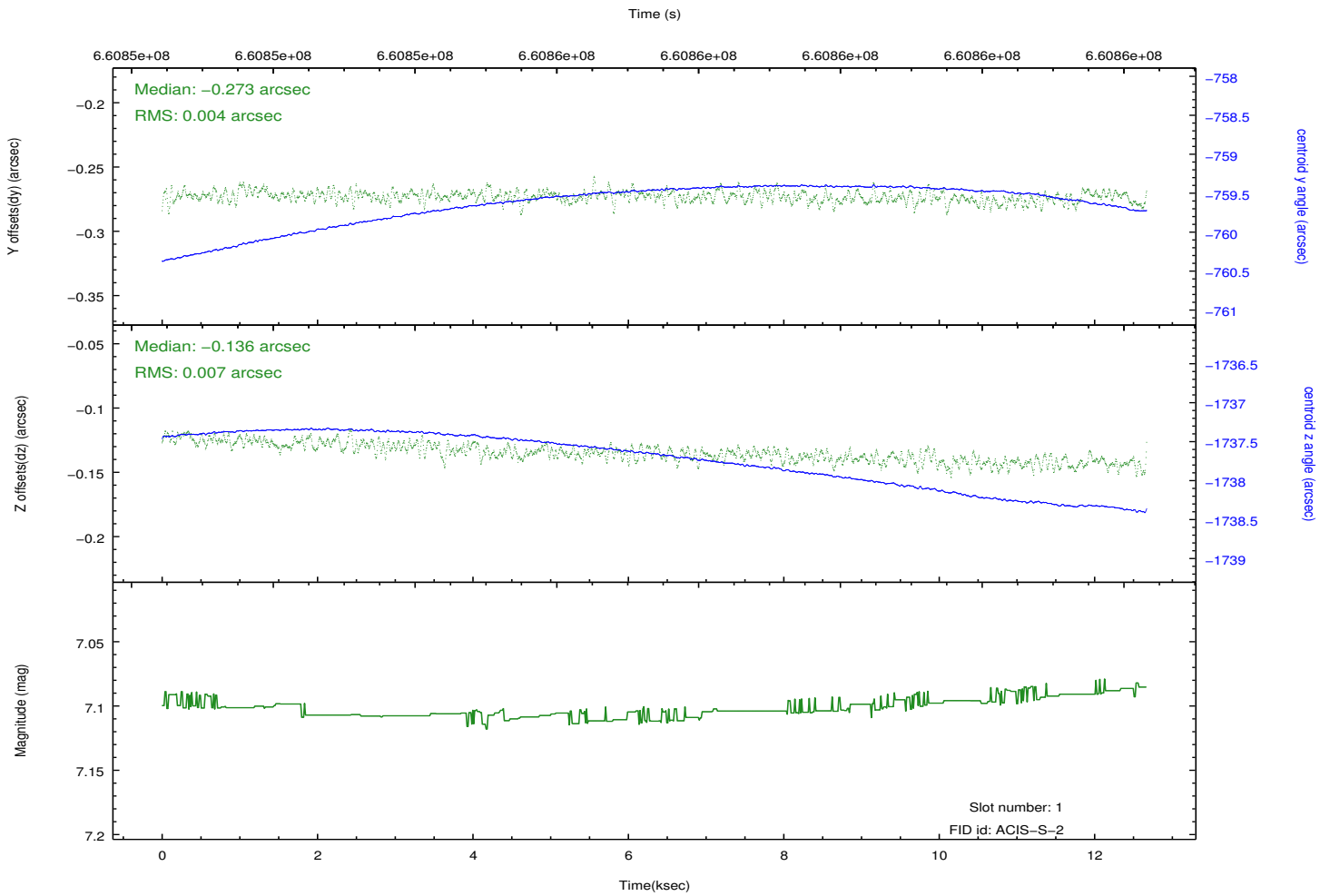
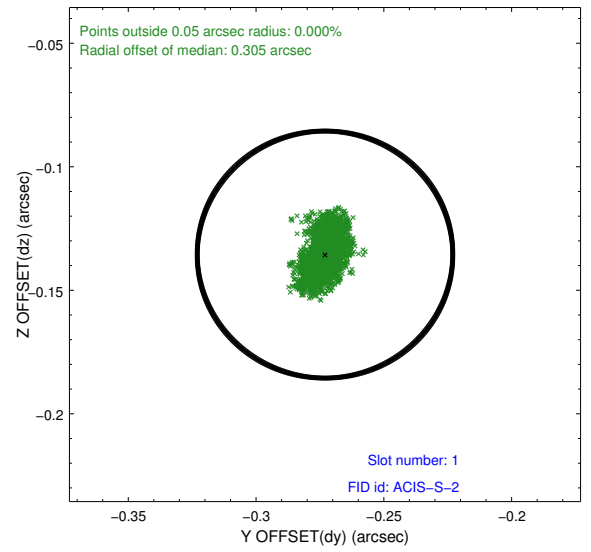
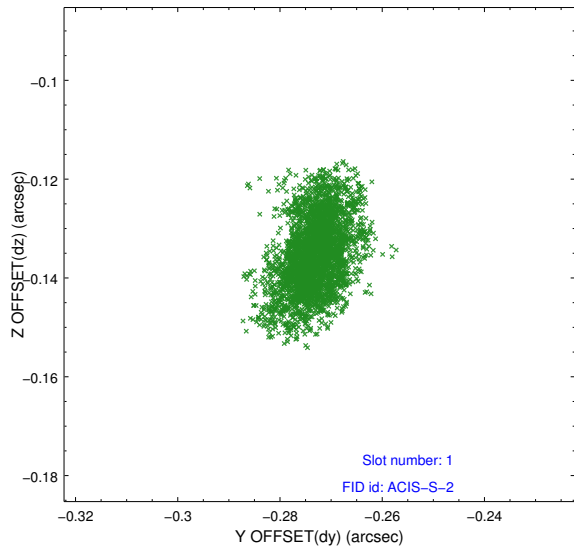


## 2.5 FID Slots

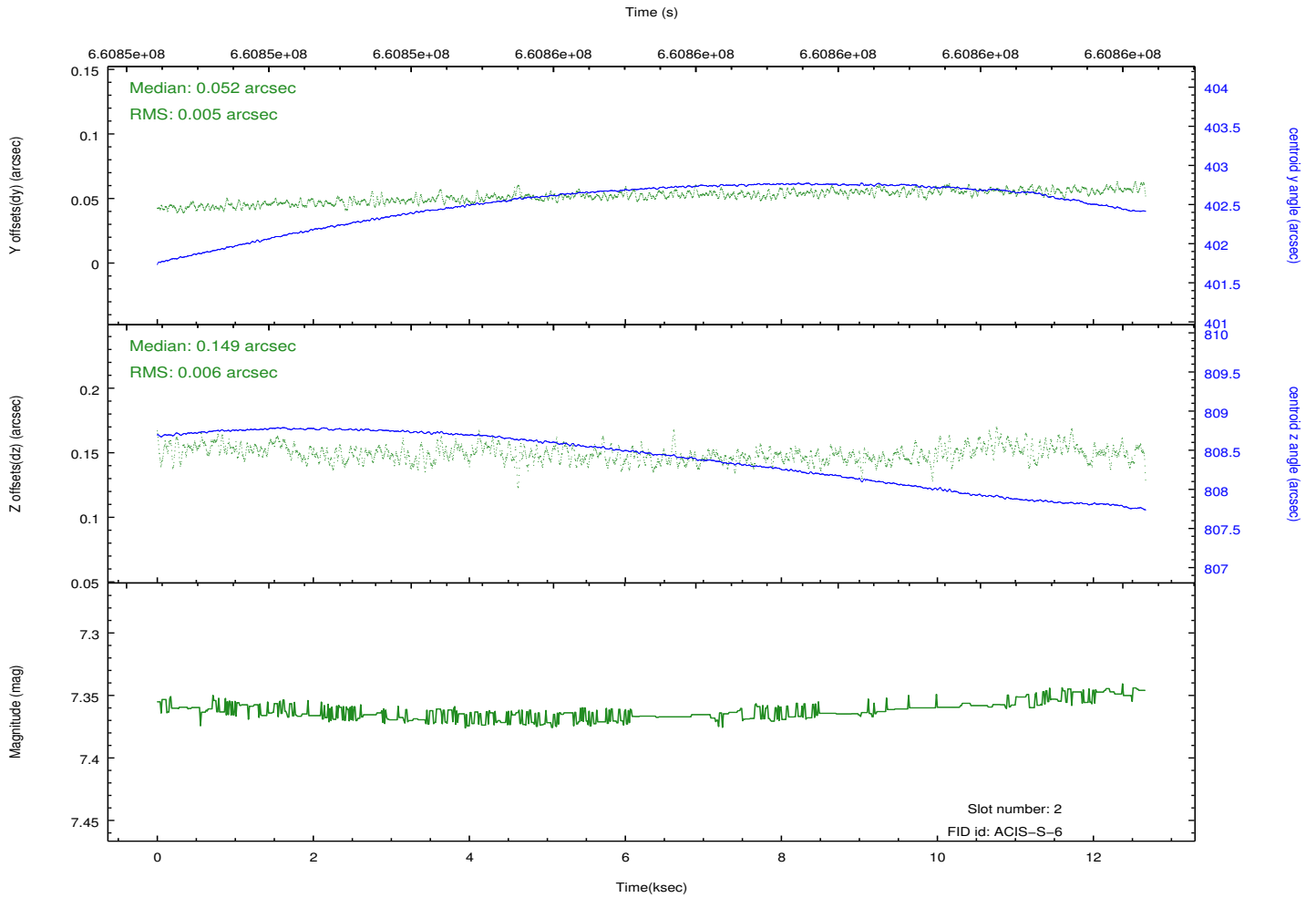
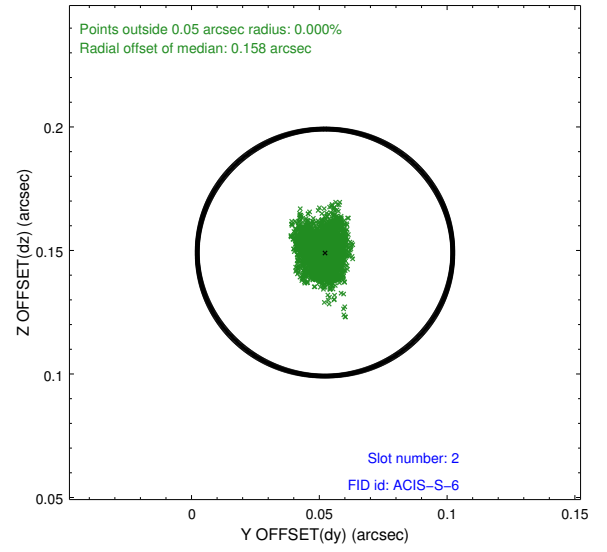
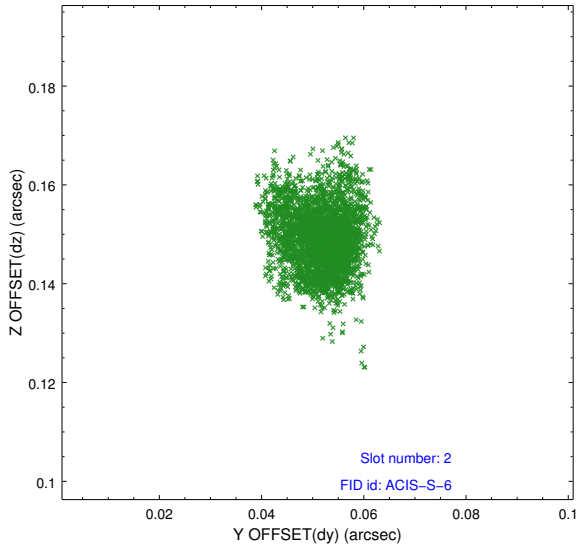
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.568799250722

## A.2 Comments