

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5524 - L2 Version 5  
Chandra X-Ray Center

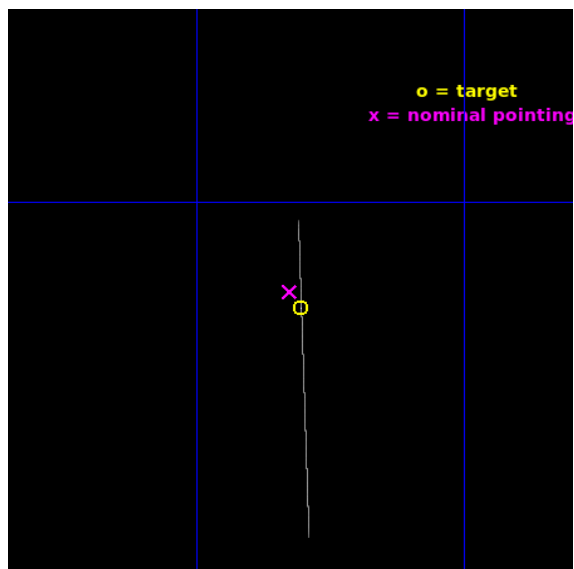
L2 Processing Date : Oct 6 2020

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# 1 Front

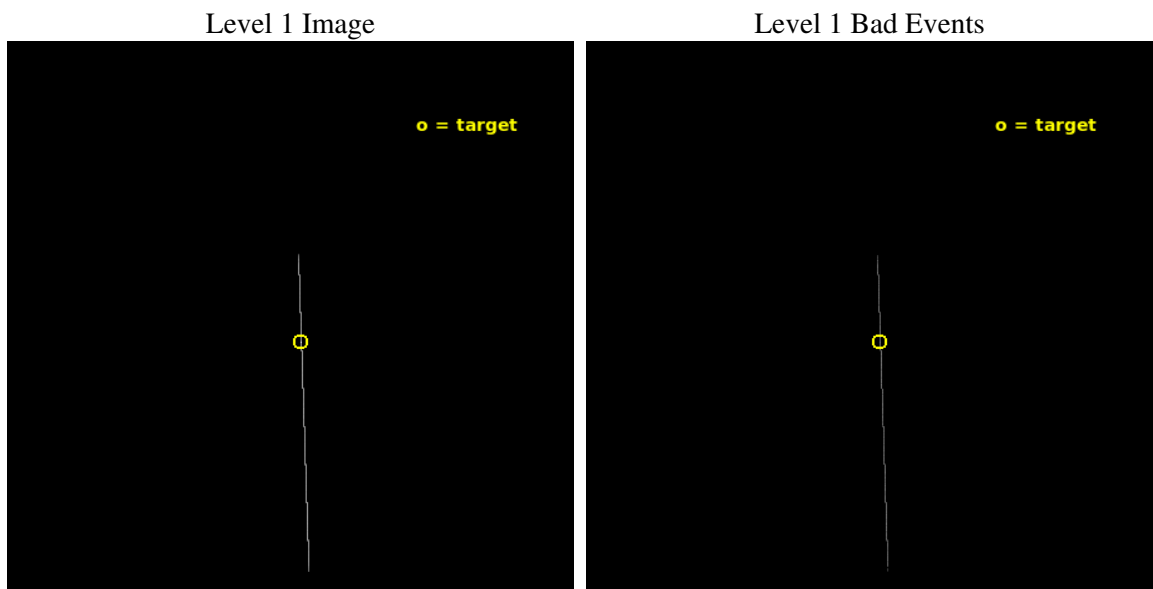
seq_num	500518	Sequence number
obs_id	5524	Observation id
title	Timing the Enigmatic Nearby Neutron Star RX J1308.8+2127	Proposal
observer	Prof. David Kaplan	Principal investigator
object	RX J1308.8+2127	Source name
ra_targ	197.20125	Observer's specified target RA [deg]
dec_targ	21.451889	Observer's specified target Dec [deg]
ra_nom	197.206406021	Nominal RA [deg]
dec_nom	21.459183700123	Nominal Dec [deg]
roll_nom	88.152221253356	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5161.5	Sum of GTIs [s]
livetime	5141.337890625	Livetime [s]
ontime7	5161.5	Sum of GTIs [s]
l2events	21811	Number of level 2 events



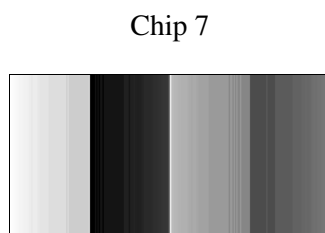
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5161.5	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime7	5161.5	Sum of GTIs [s]
date	2020-10-06T21:41:11	Date and time of file creation	l1events	30800	Number of level 1 events
revision	5	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	30800
rejected events	8162
rejected %	26%

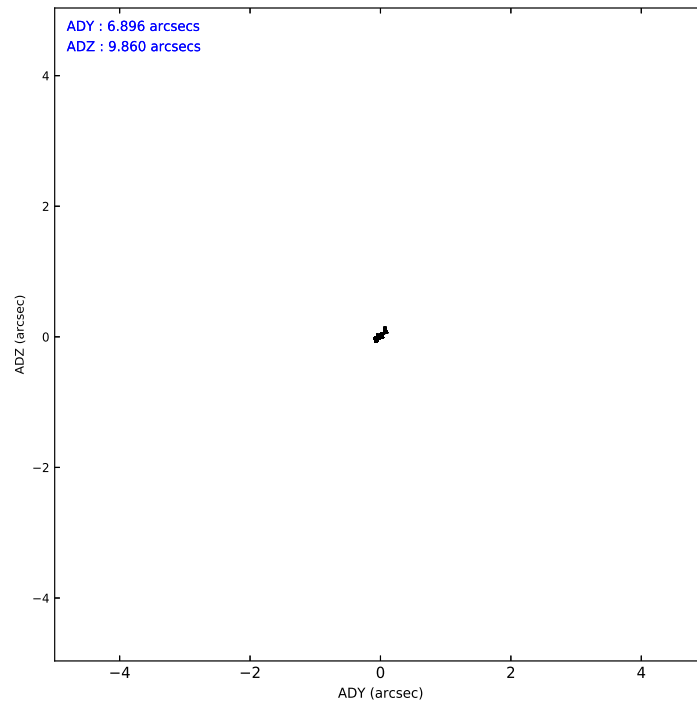
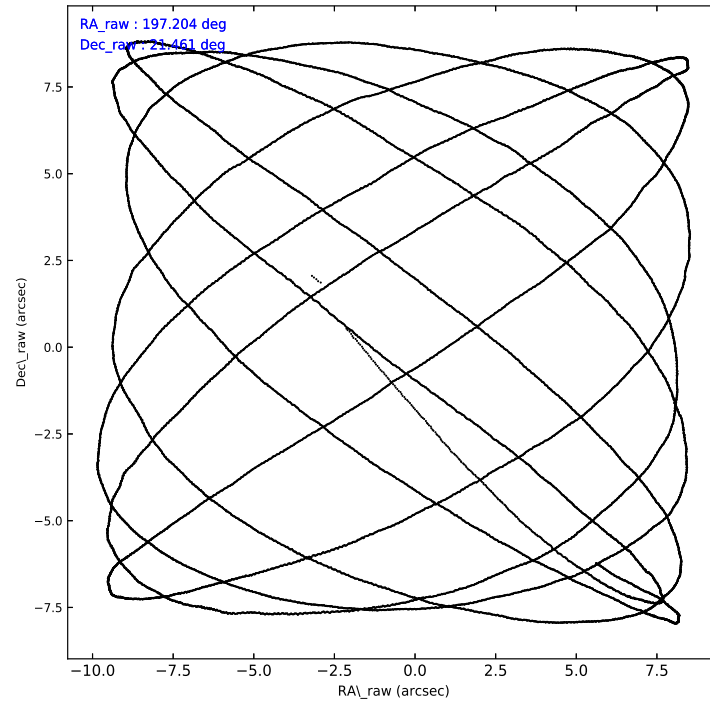
	<b>ccd 7</b>
grade 0 events	3706
	12%
grade 1 events	74
	0%
grade 2 events	6162
	20%
grade 3 events	1944
	6%
grade 4 events	1955
	6%
grade 5 events	4730
	15%
grade 6 events	12229
	39%
grade 7 events	0
	0%

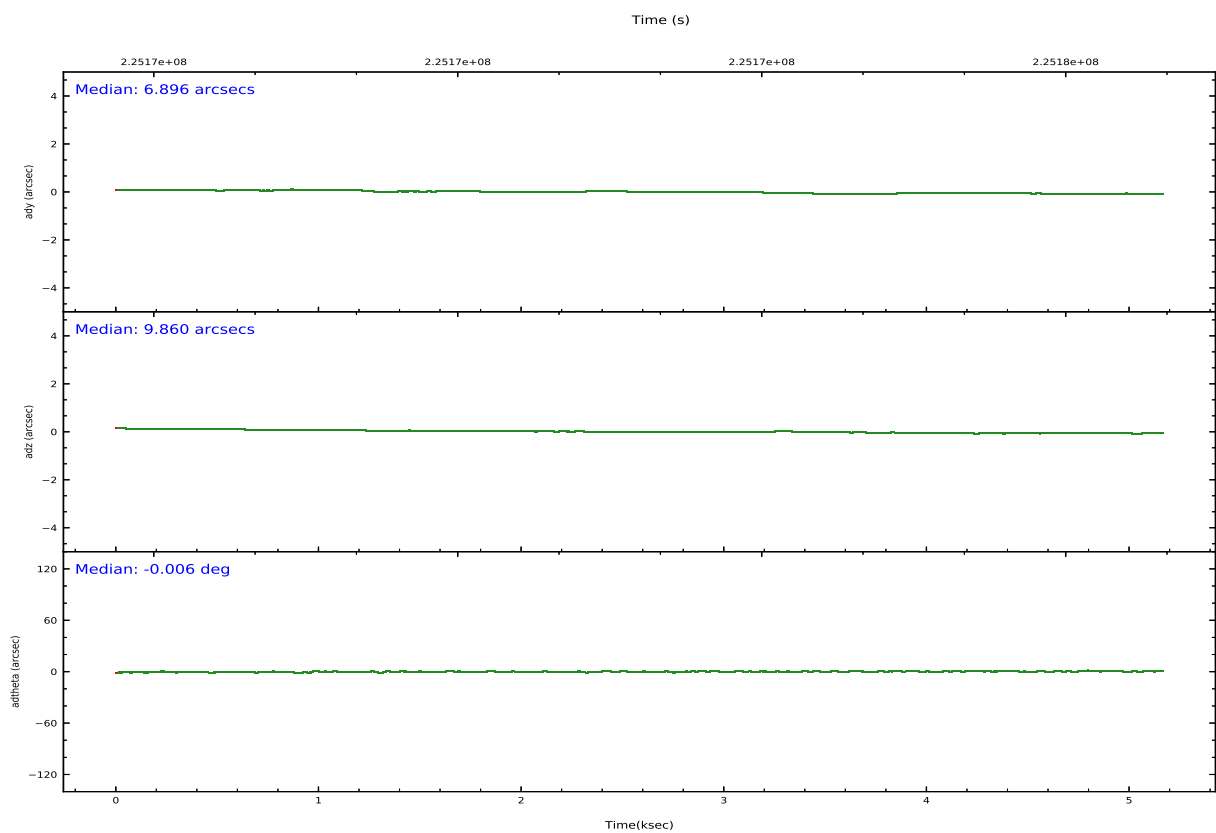
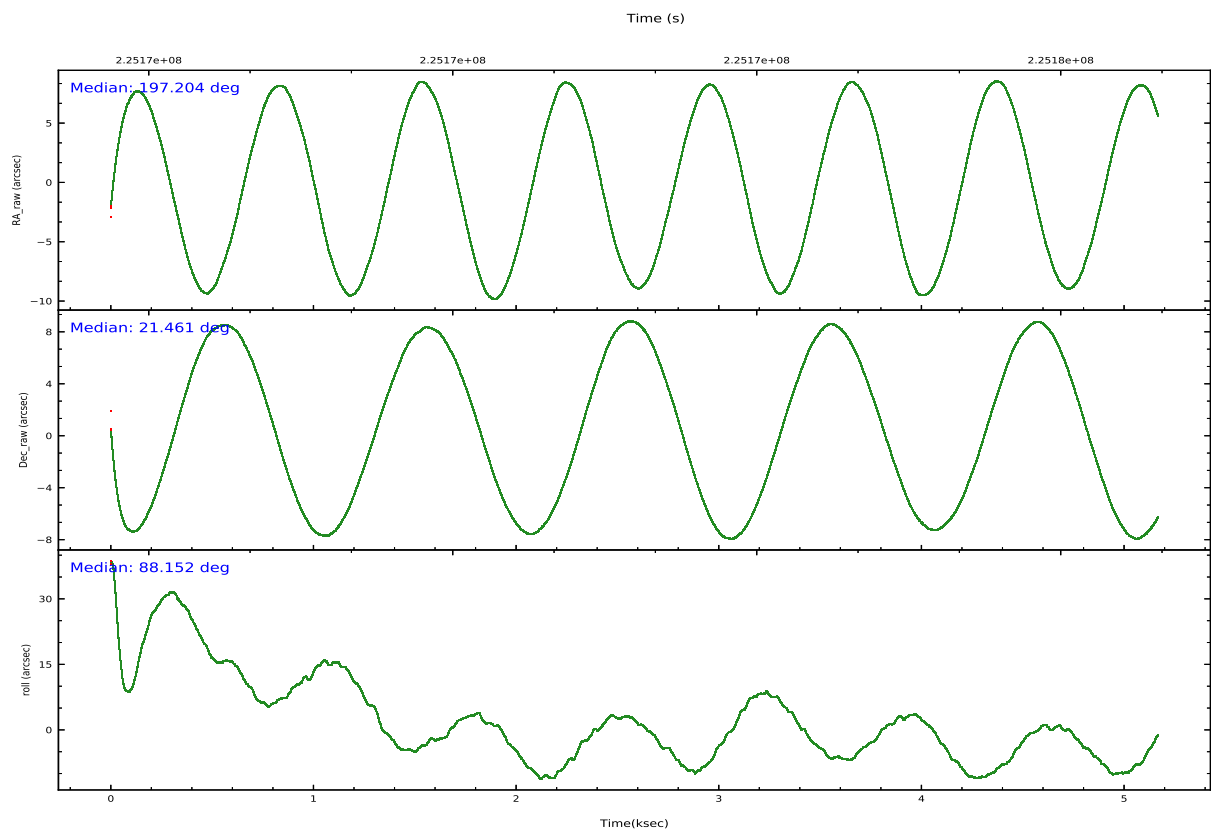


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	197.217552	197.206406021	Subarray requested	NONE	NONE
[deg] Pointing Dec	21.437519	21.459183700123	Alternating exposures requested	N	N
[deg] Pointing Roll	87.994044	88.152221253356	[s] Primary exposure time	0.000000	0
[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)	225170480.184000	225169454.9537			
Observation start date	2005-02-19T03:20:16	2005-02-19T03:04:14			
[s] Observation end time (MET)	225175480.184000	225177032.77904			
Observation end date	2005-02-19T04:43:36	2005-02-19T05:10:32			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Aspect



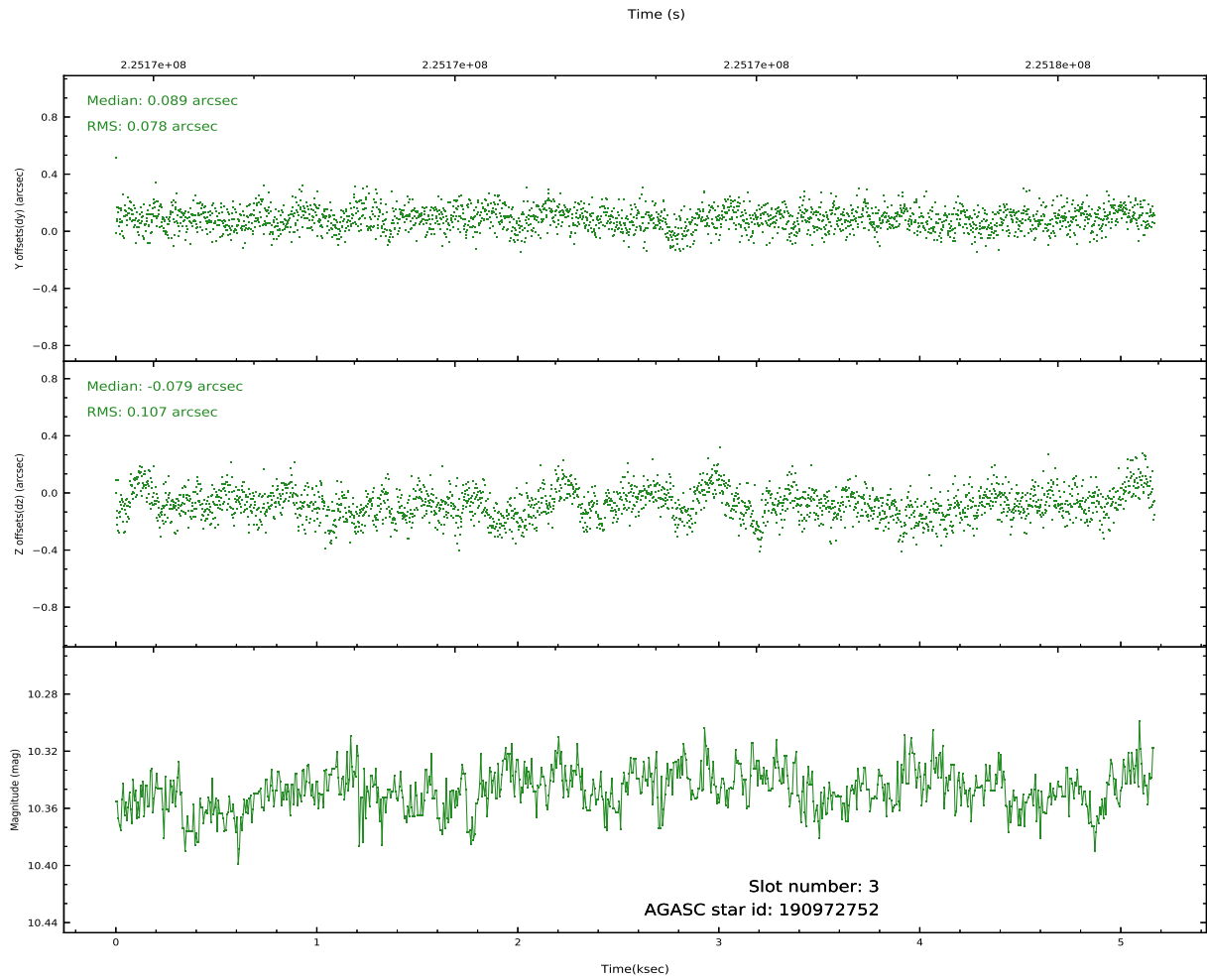
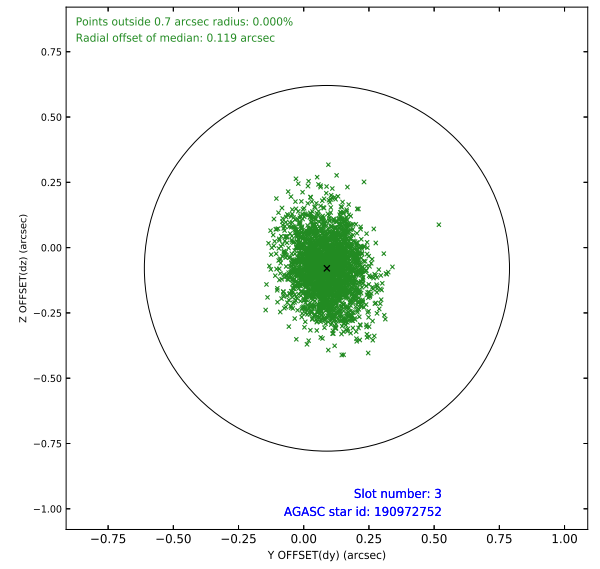
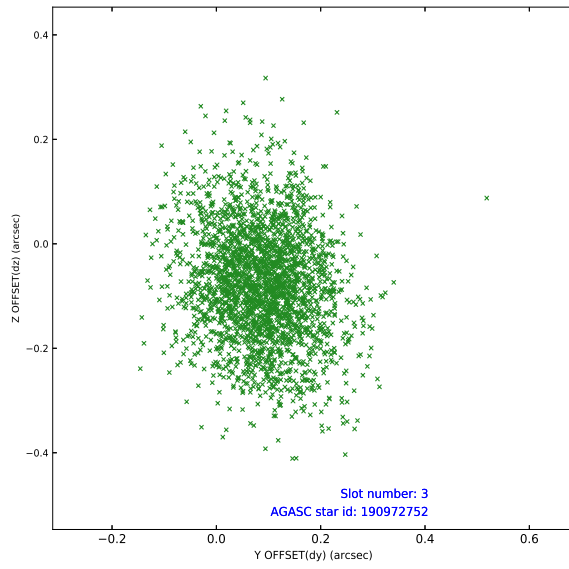


Slot Statistics

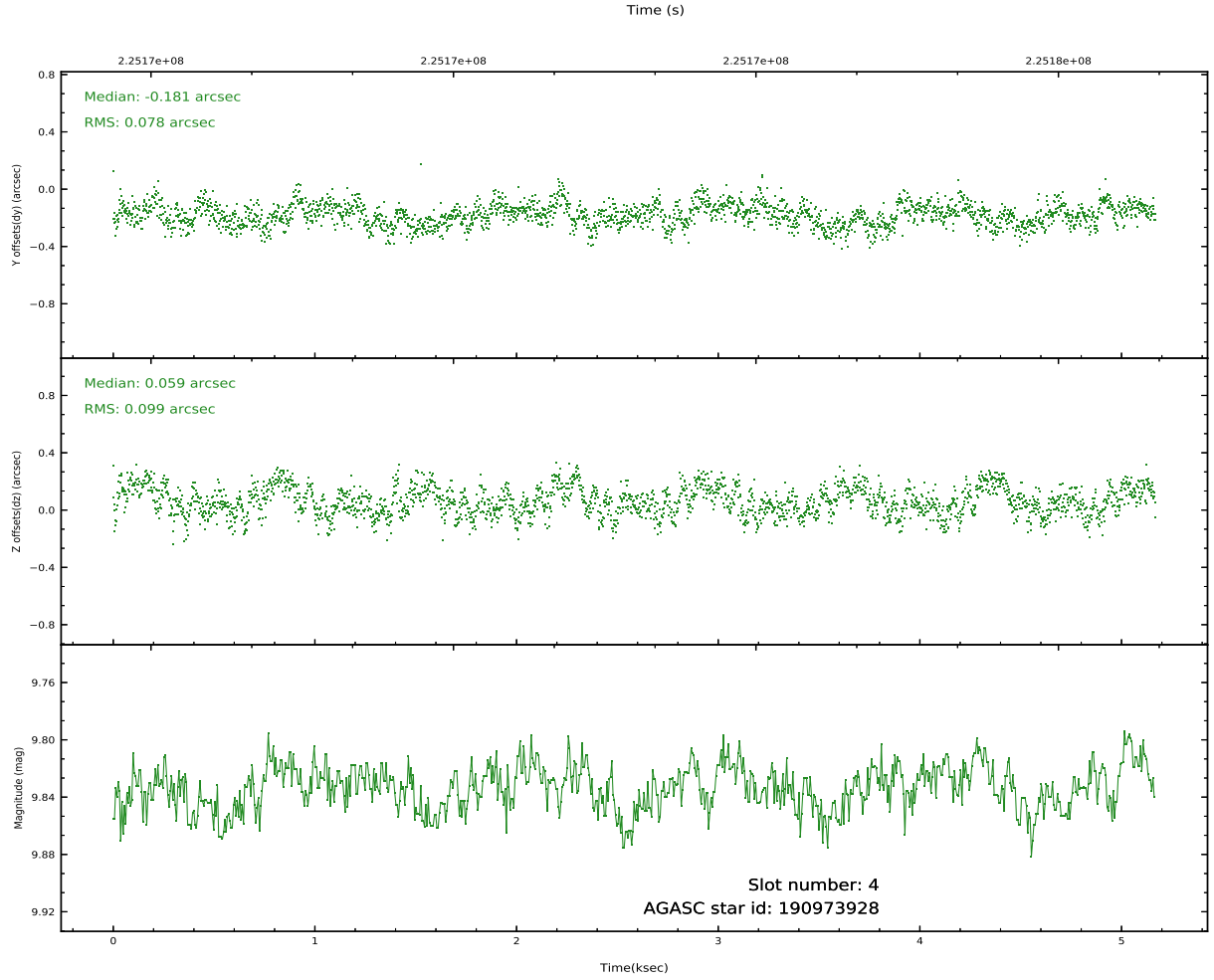
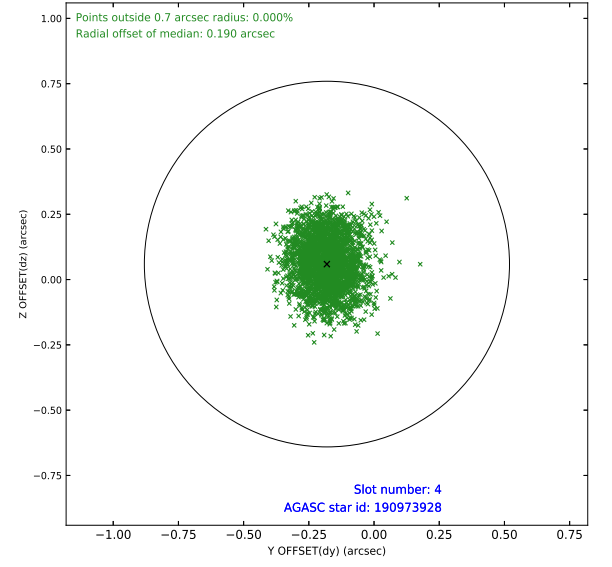
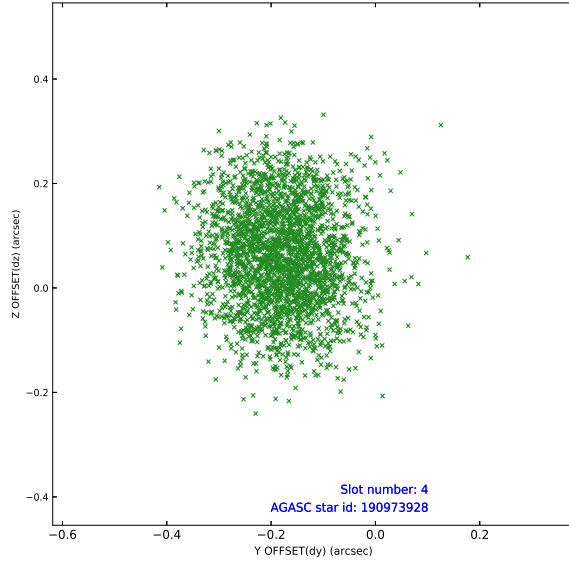
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1261	1.000	-0.088	-0.070	0.007	0.012	0.000000	0.000000	-759.67	-1731
1	FID		ACIS-S-4	7.21	1261	1.000	0.159	0.061	0.006	0.010	0.000000	0.000000	2153.26	176
2	FID		ACIS-S-5	7.23	1261	1.000	-0.102	0.018	0.006	0.011	0.000000	0.000000	-1811.08	171
3	GUIDE	used	190972752	10.35	2516	1.000	0.089	-0.079	0.139	0.233	197.567107	21.351082	-267.88	-1181
4	GUIDE	used	190973928	9.83	2521	1.000	-0.181	0.059	0.137	0.213	197.904188	21.564389	542.61	-2280
5	GUIDE	used	190974376	6.81	2522	1.000	-0.220	0.144	0.067	0.115	197.884749	21.918670	1814.61	-2166
6	GUIDE	used	190979840	10.37	2520	1.000	0.159	-0.064	0.234	0.345	197.337465	20.846267	-2111.60	-478
7	GUIDE	used	190971944	10.05	2518	1.000	0.161	-0.056	0.155	0.281	197.963793	22.064478	2349.14	-2408

## 2.4 Star Slots

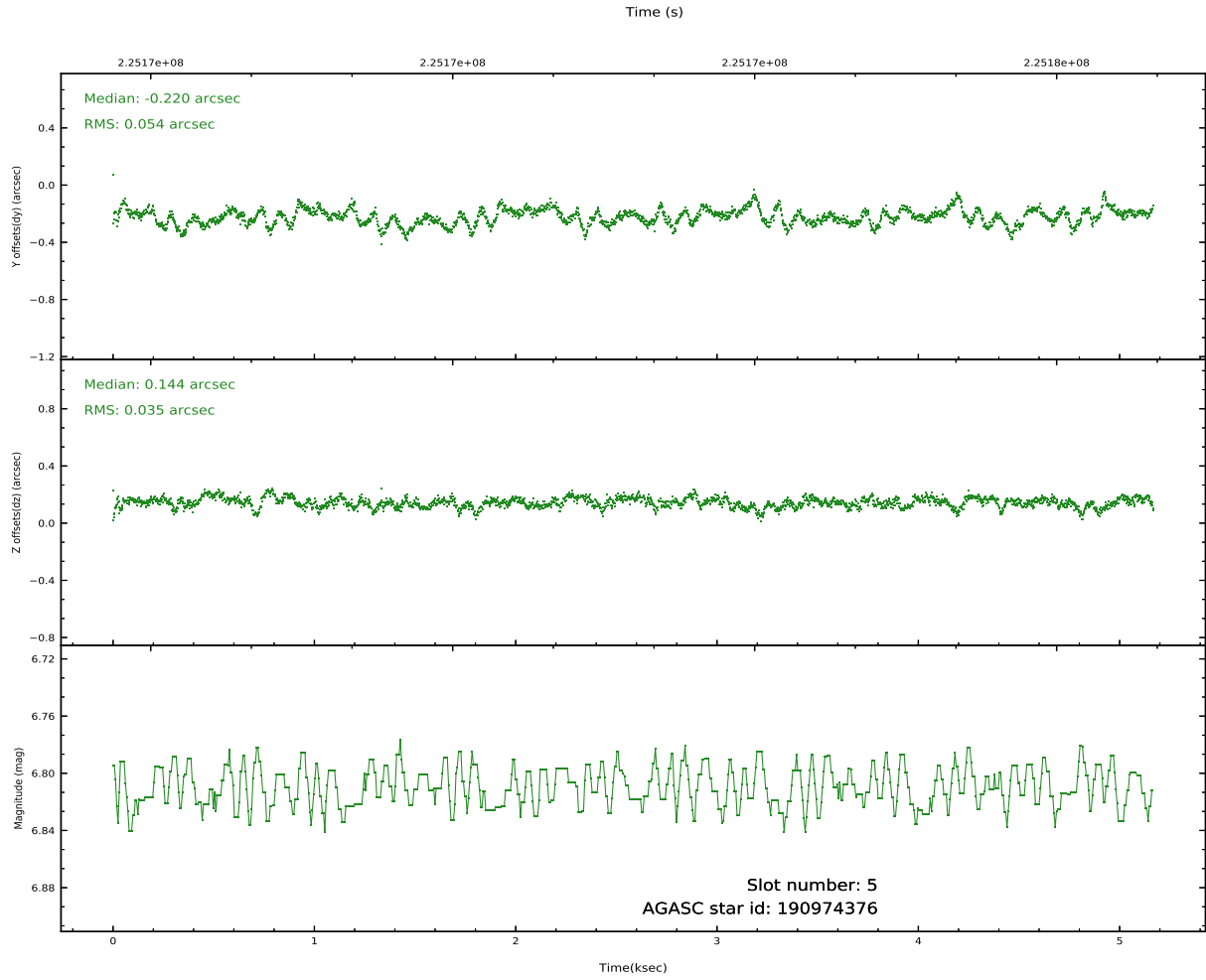
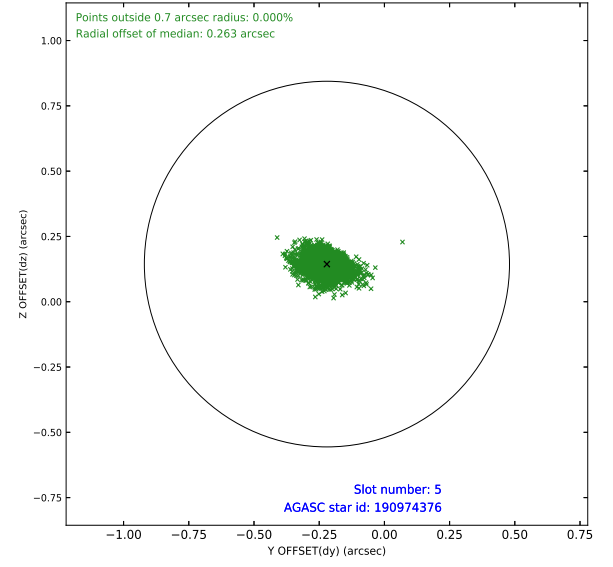
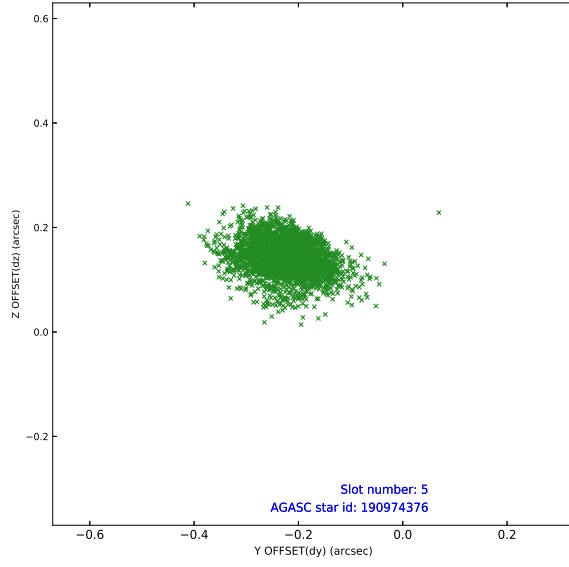
### 2.4.1 Slot 3



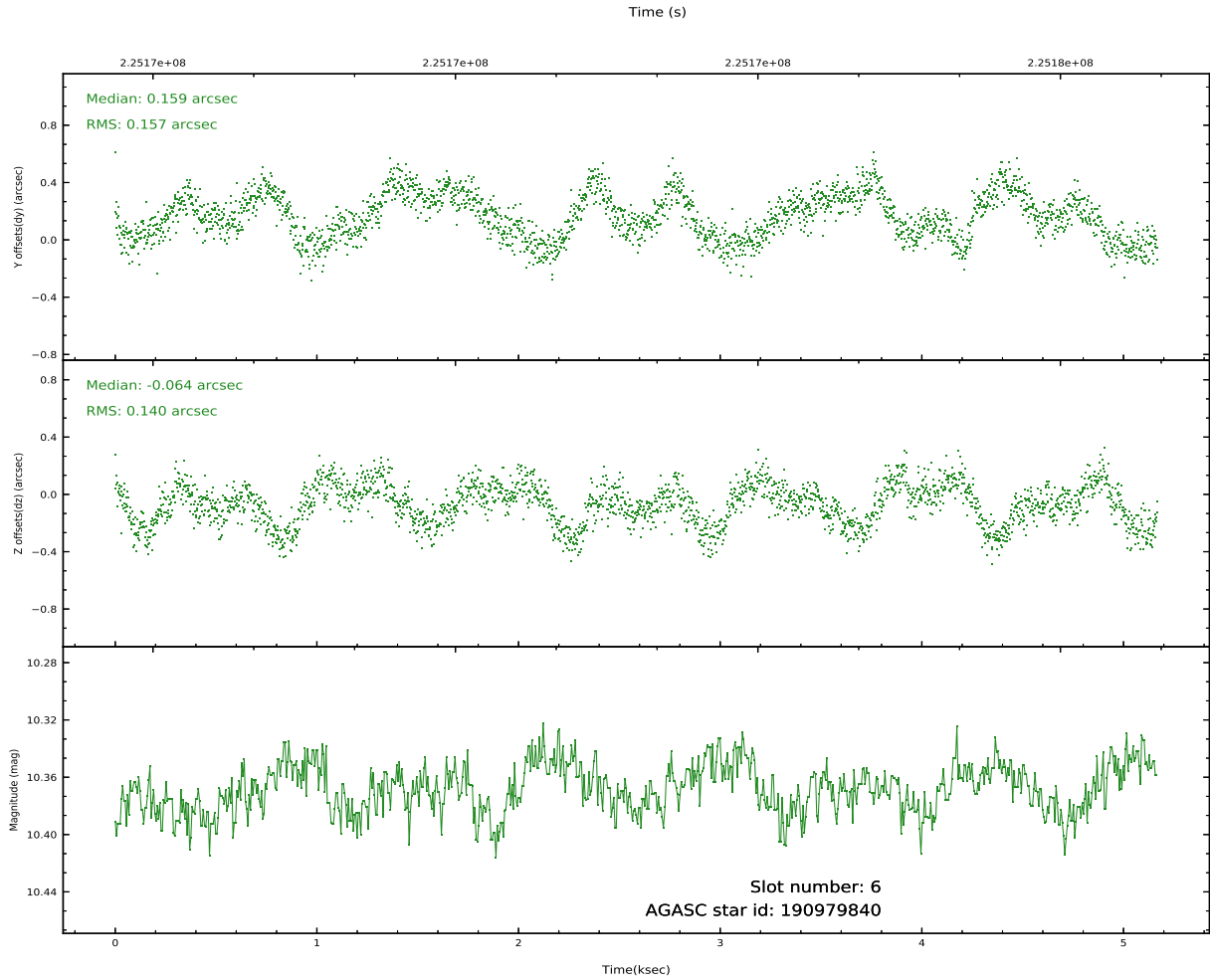
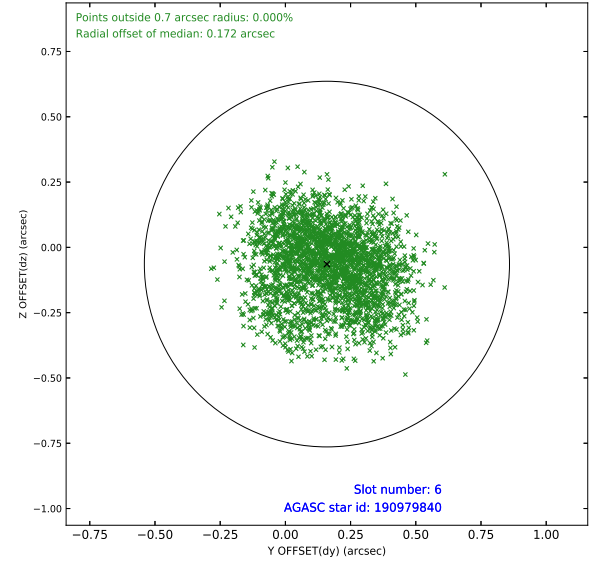
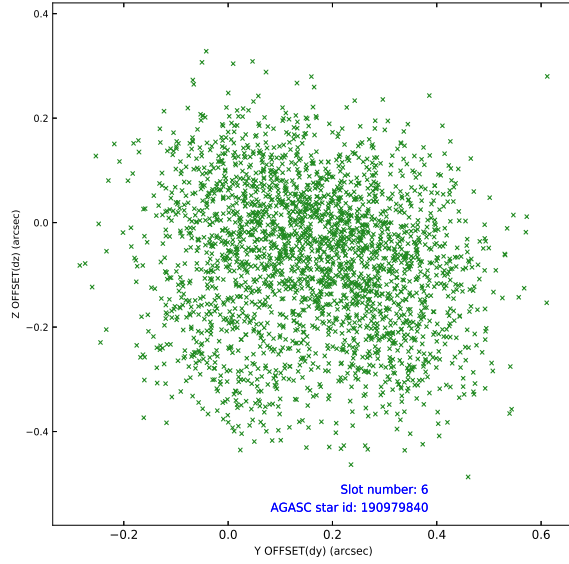
## 2.4.2 Slot 4



### 2.4.3 Slot 5

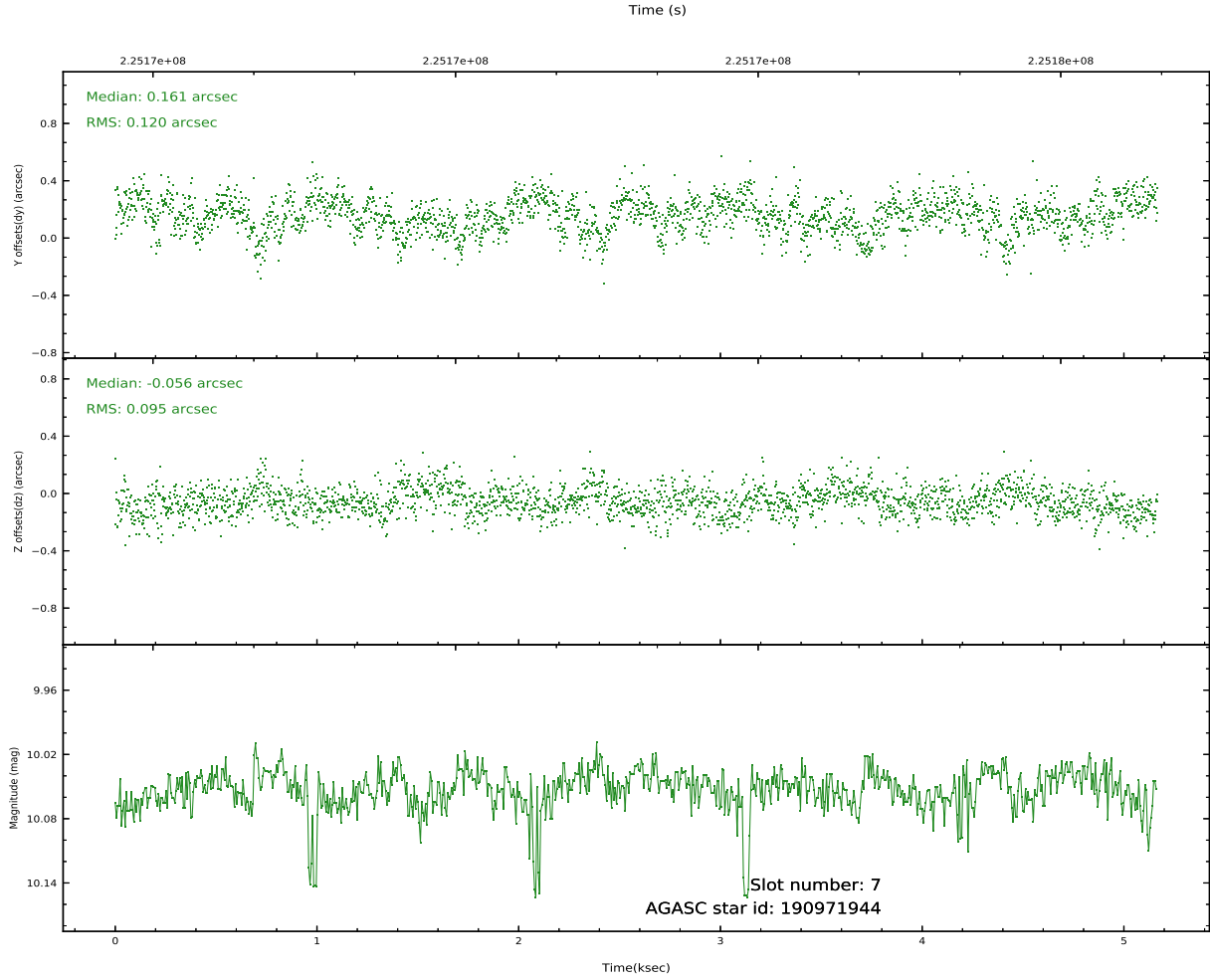
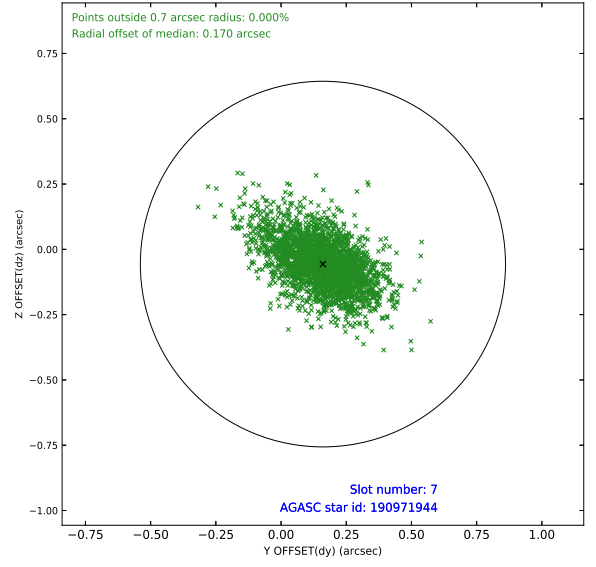
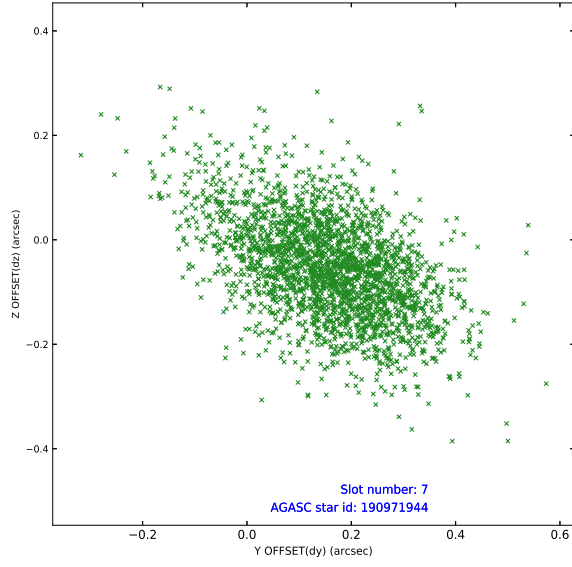


## 2.4.4 Slot 6



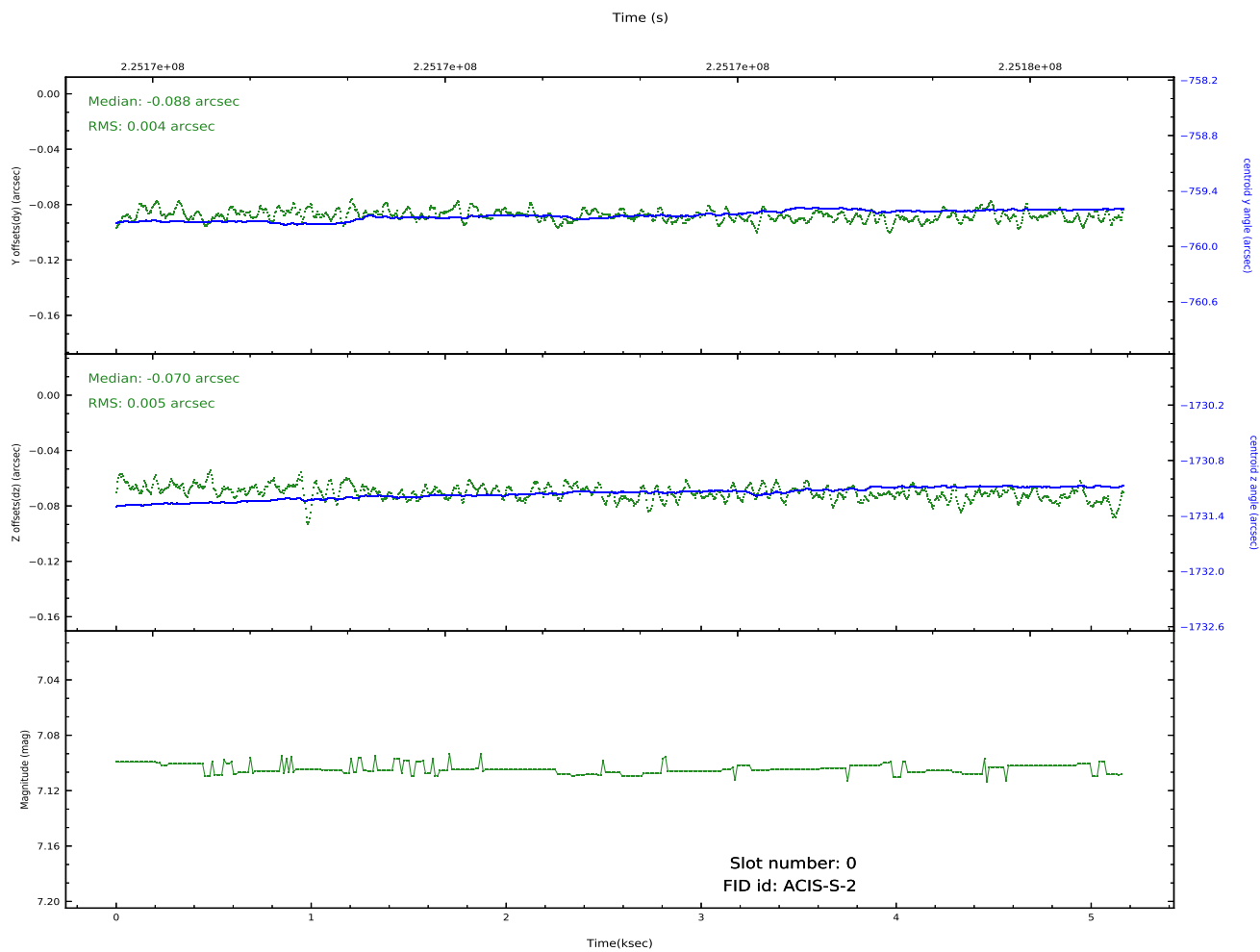
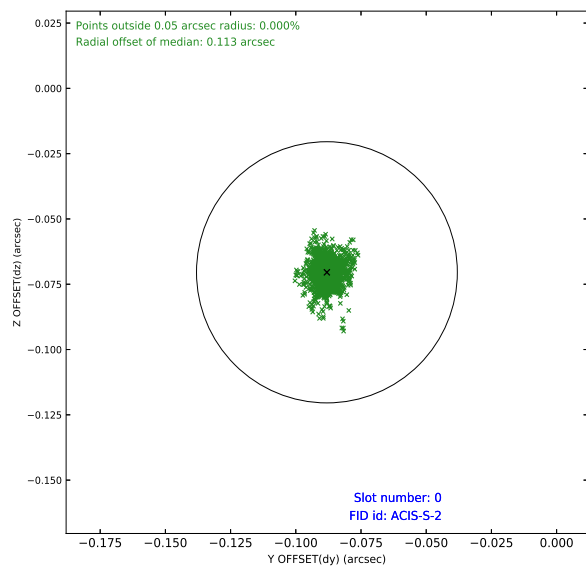
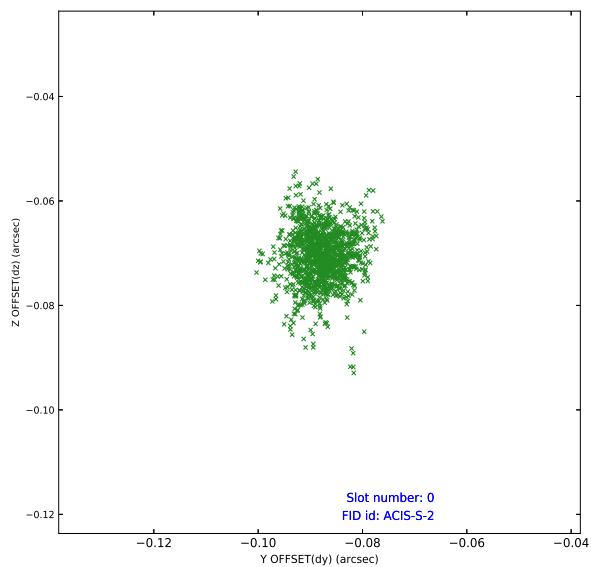


## 2.4.5 Slot 7

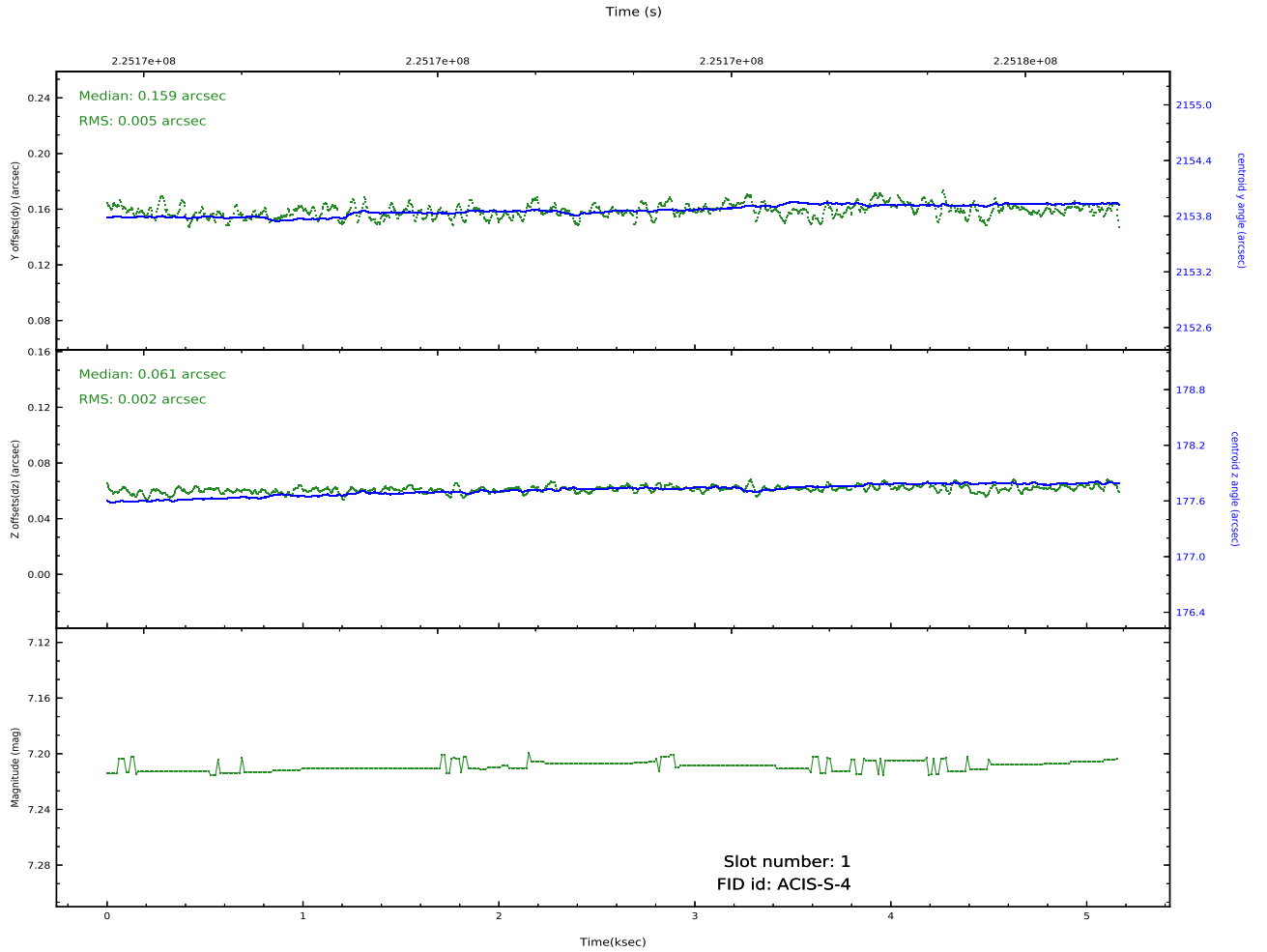
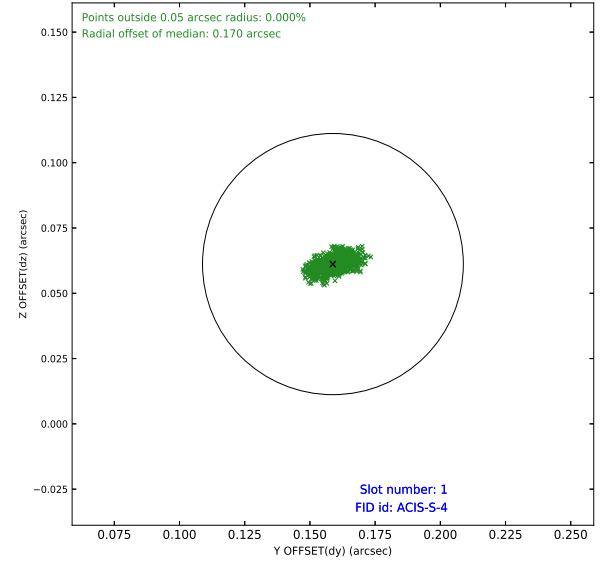
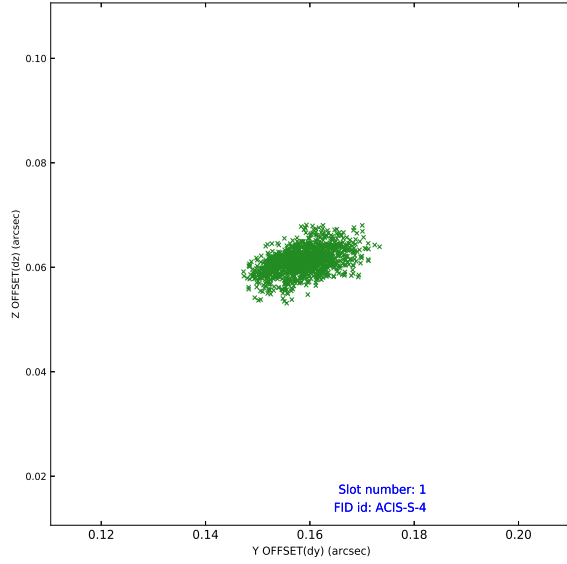


## 2.5 FID Slots

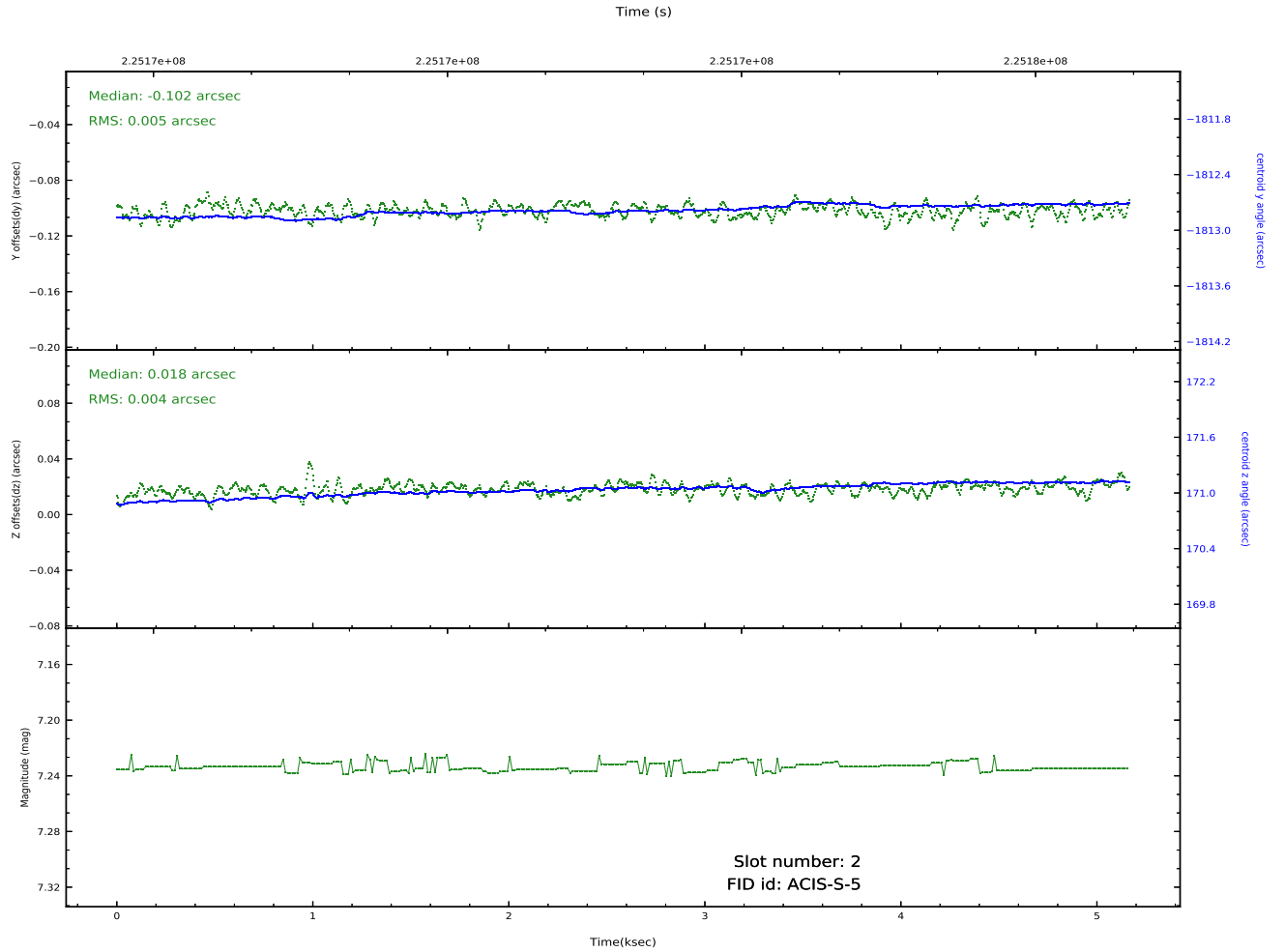
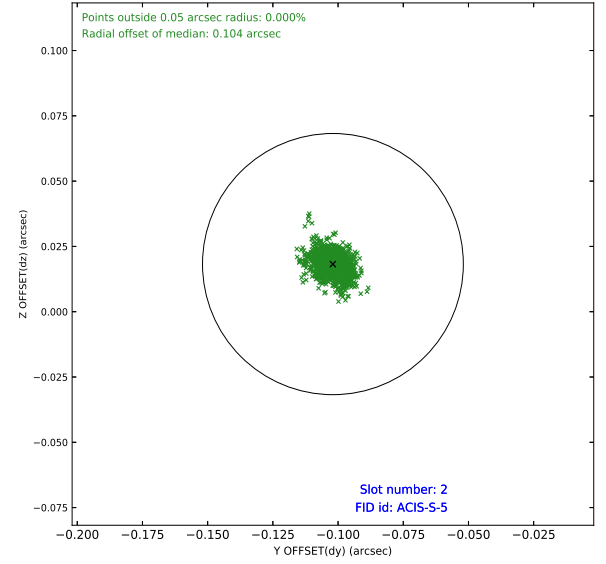
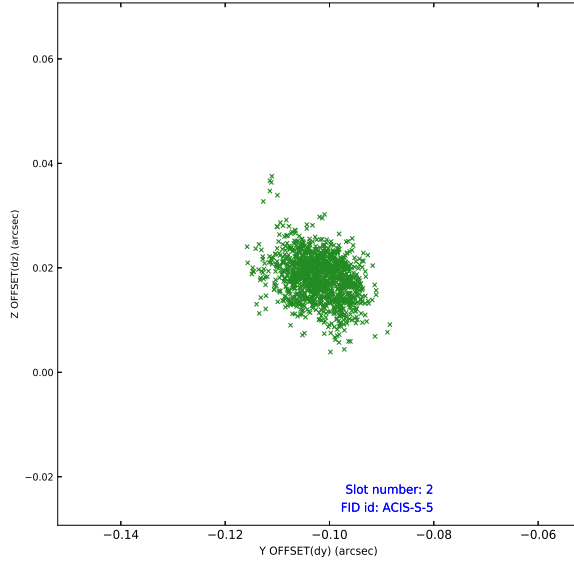
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.165

### A.2 Comments