

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5525 - L2 Version 5  
Chandra X-Ray Center

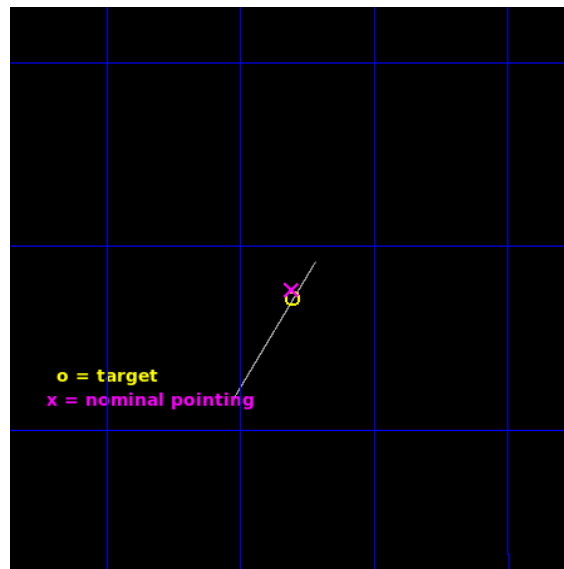
L2 Processing Date : Oct 7 2020

## 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
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

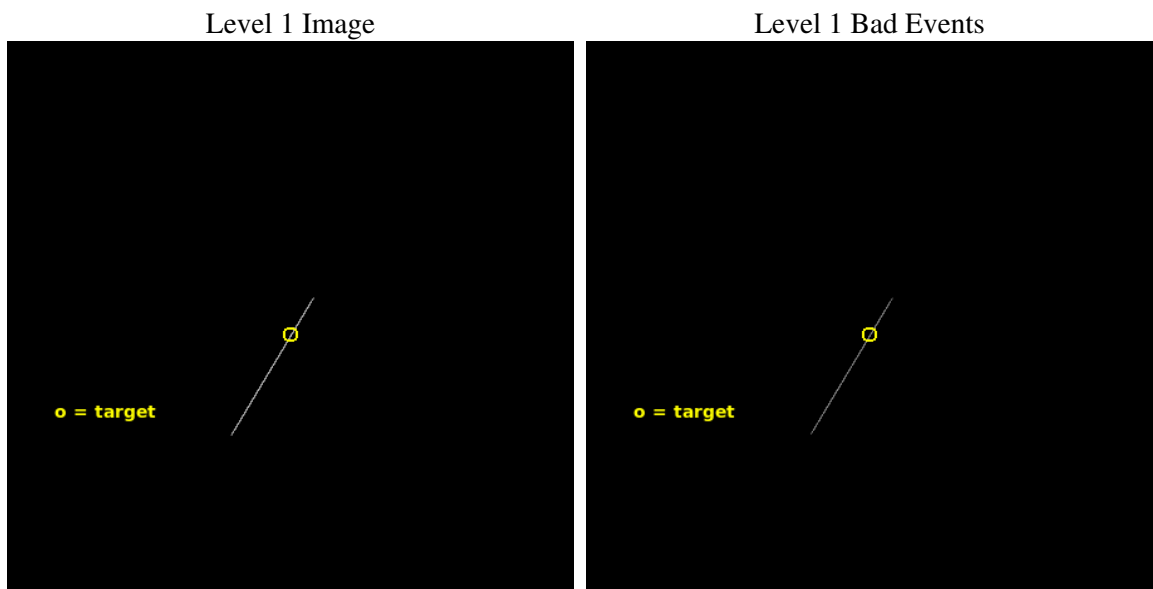
seq_num	500519	Sequence number
obs_id	5525	Observation id
title	Timing the Enigmatic Nearby Neutron Star RX J1308.8+2127	Proposal
observer	Prof. David Kaplan	Principal investigator
object	RX J1308.8+2127	Source name
ra_targ	197.20125	Observer's specified target RA [deg]
dec_targ	21.451889	Observer's specified target Dec [deg]
ra_nom	197.20175169805	Nominal RA [deg]
dec_nom	21.460481061481	Nominal Dec [deg]
roll_nom	119.82592552457	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5639.25	Sum of GTIs [s]
livetime	5617.2216796875	Livetime [s]
ontime7	5639.25	Sum of GTIs [s]
l2events	24278	Number of level 2 events



## 2 OBI

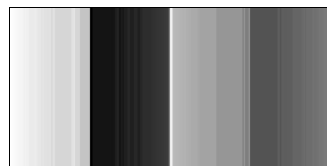
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5639.25	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime7	5639.25	Sum of GTIs [s]
date	2020-10-07T04:36:50	Date and time of file creation	l1events	34365	Number of level 1 events
revision	5	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	34365
rejected events	8859
rejected %	25%

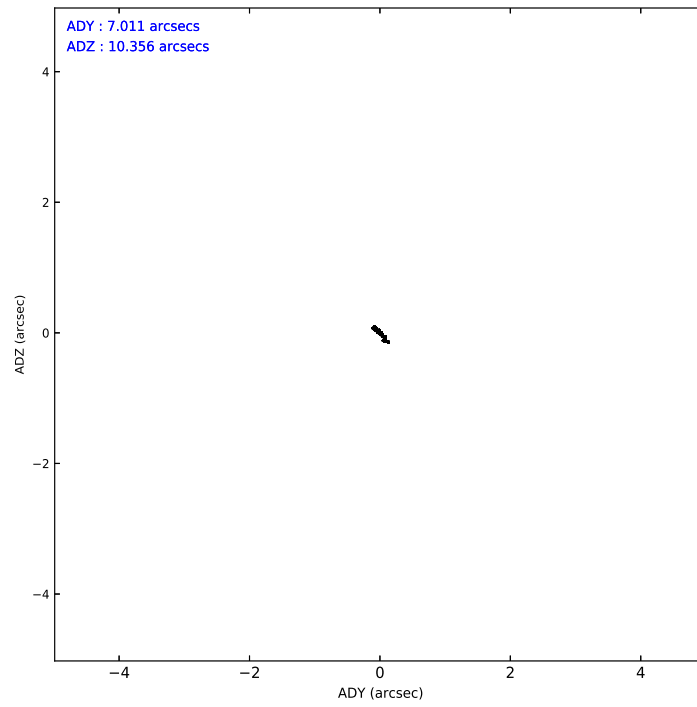
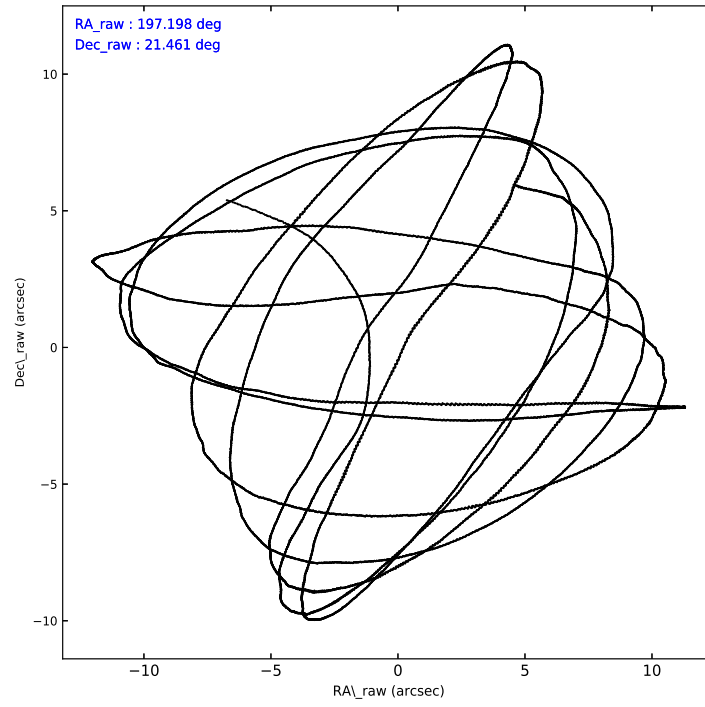
	<b>ccd 7</b>
grade 0 events	3853
	11%
grade 1 events	72
	0%
grade 2 events	7291
	21%
grade 3 events	2092
	6%
grade 4 events	2074
	6%
grade 5 events	5103
	14%
grade 6 events	13880
	40%
grade 7 events	0
	0%

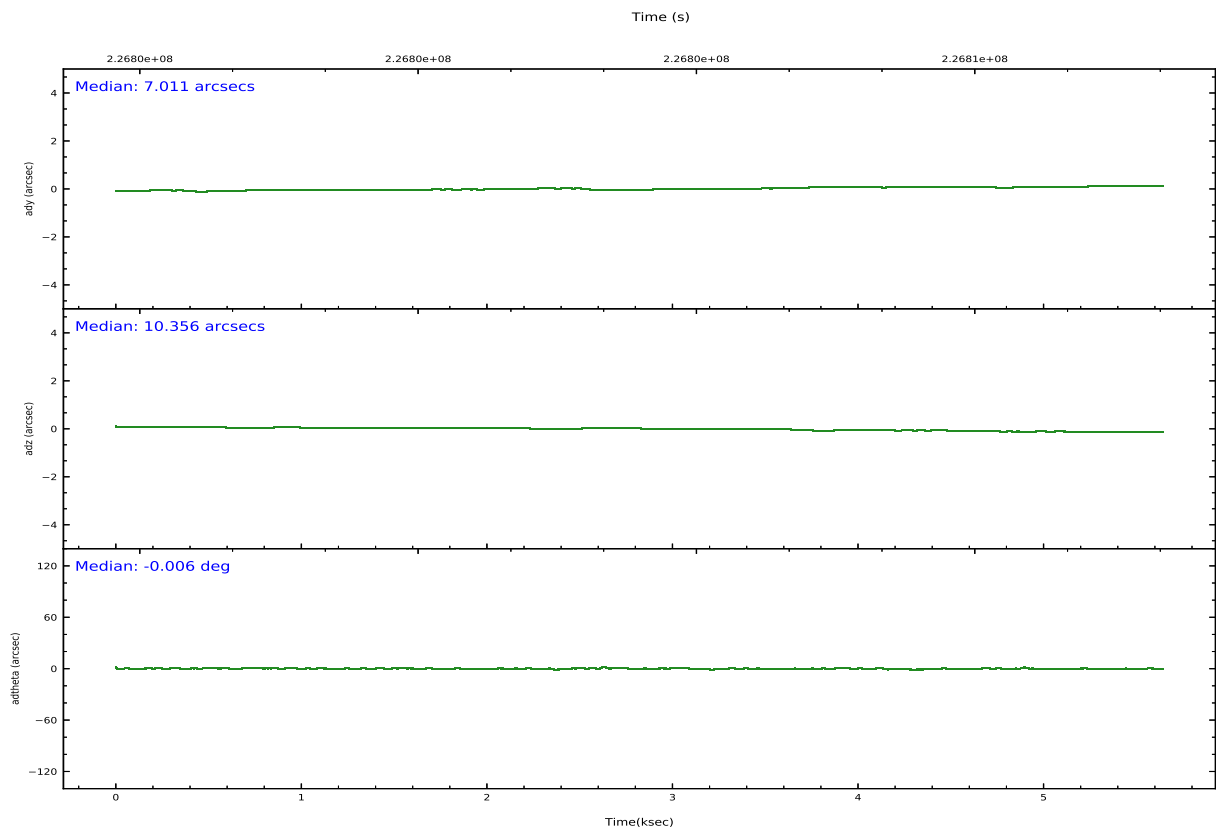
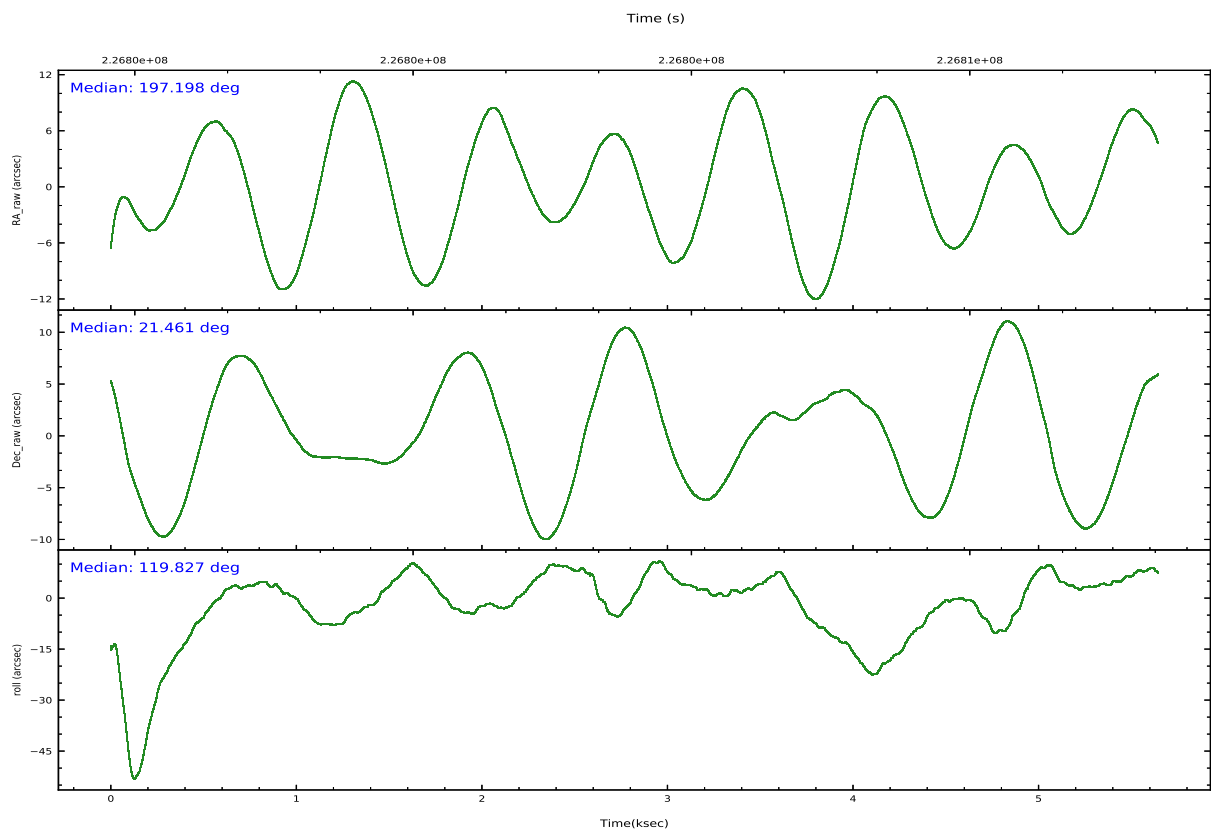


## 2.2 Compared Parameters

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	197.223232	197.20175169805	Subarray requested	NONE	NONE
[deg] Pointing Dec	21.447630	21.460481061481	Alternating exposures requested	N	N
[deg] Pointing Roll	119.662291	119.82592552457	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	226801014.184000	226799970.70254			
Observation start date	2005-03-10T00:15:50	2005-03-09T23:59:30			
[s] Observation end time (MET)	226806514.184000	226807472.67788			
Observation end date	2005-03-10T01:47:30	2005-03-10T02:04:32			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Aspect



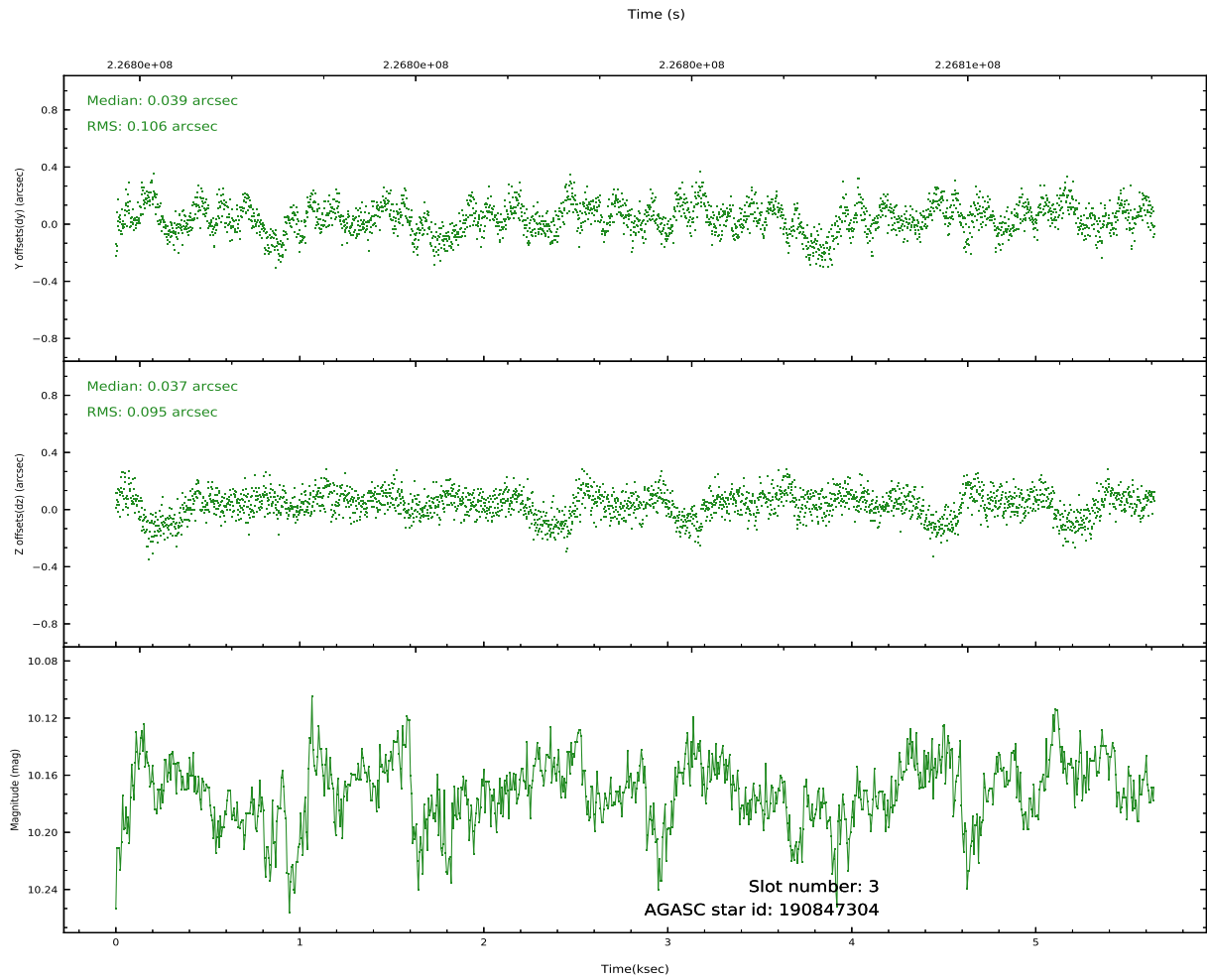
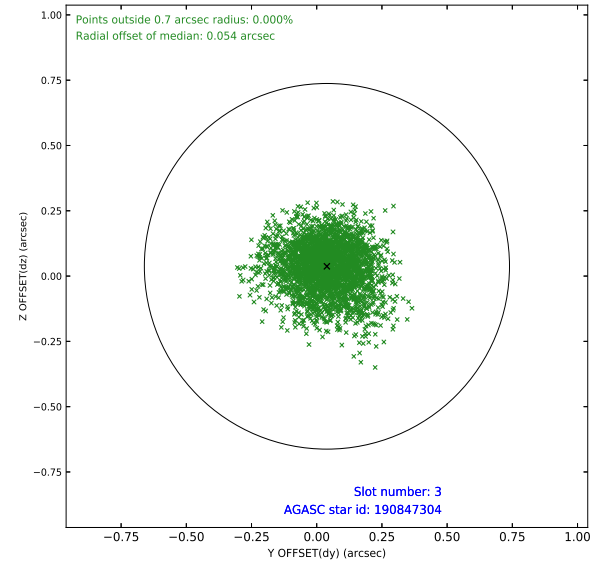
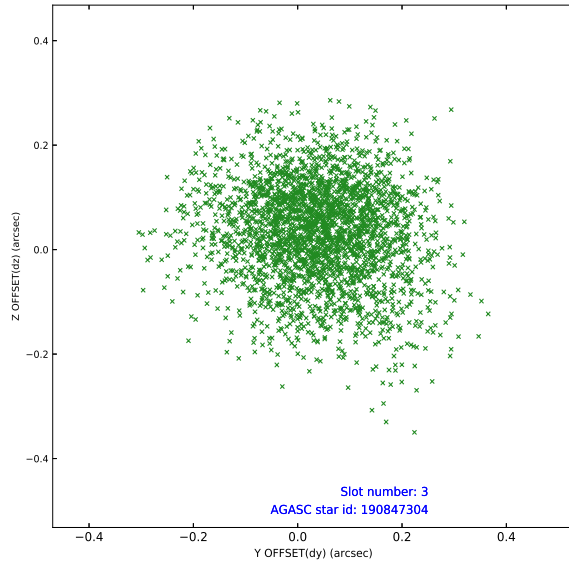


Slot Statistics

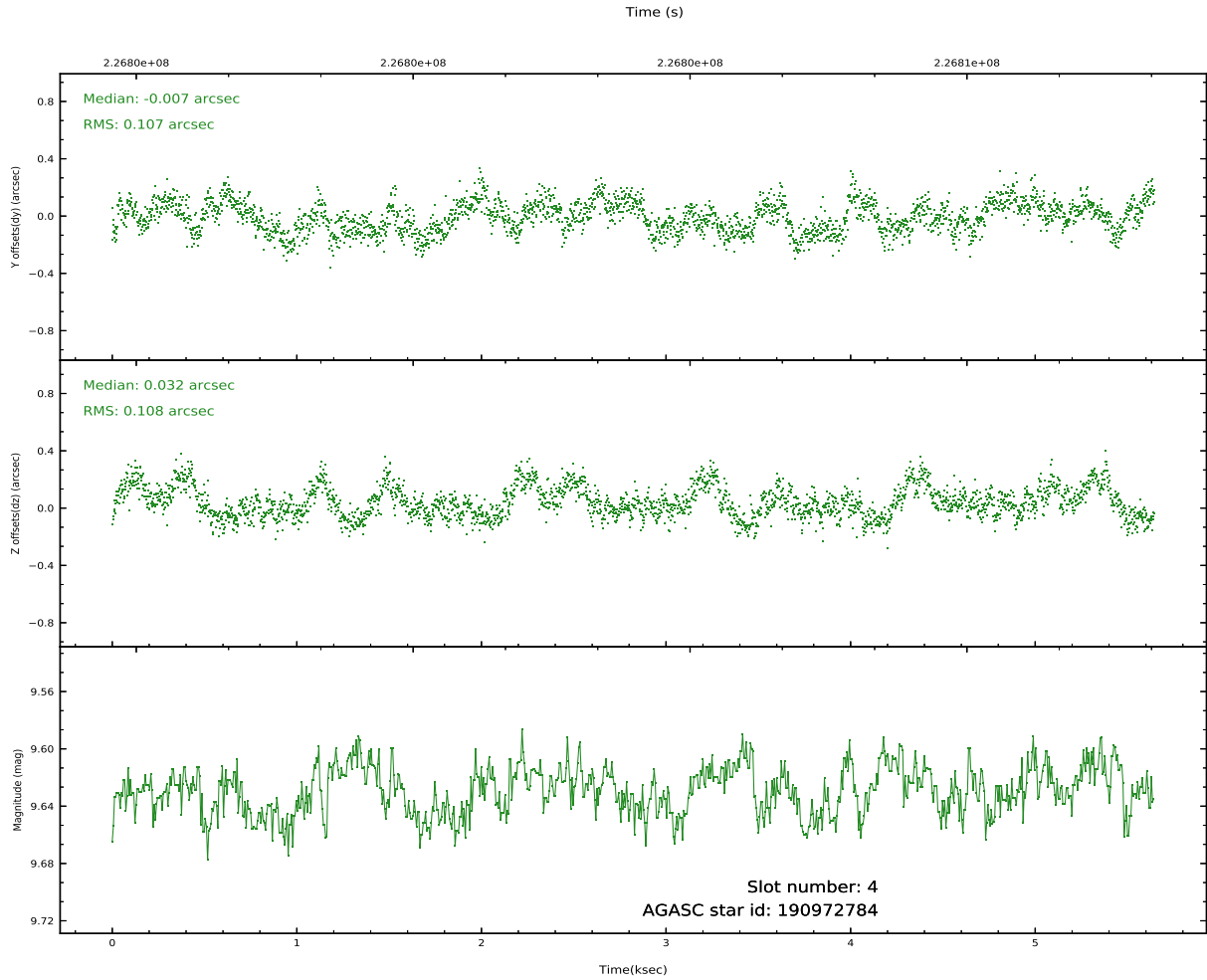
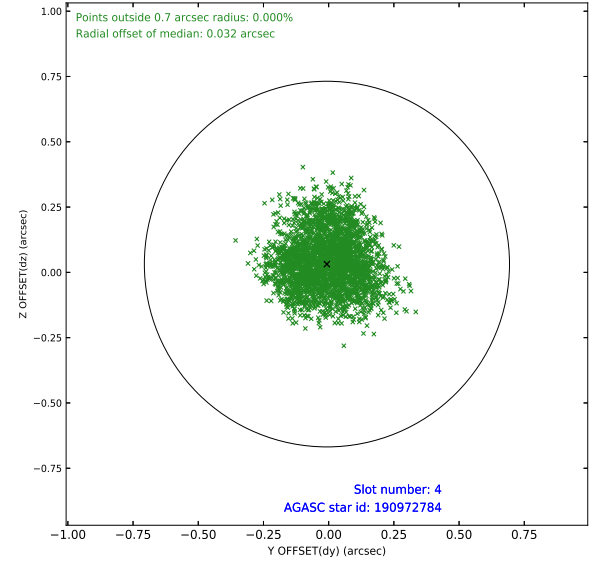
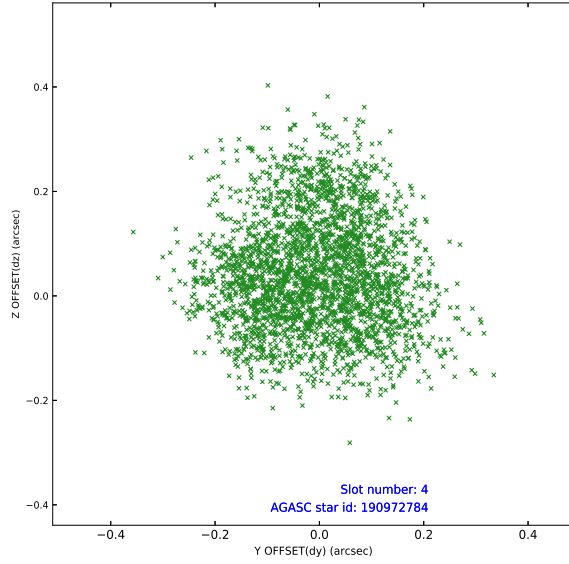
	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	m
	FID		ACIS-S-2	7.10	1377	1.000	-0.088	-0.061	0.007	0.012	0.000000	0.000000	-759.79	-17
	FID		ACIS-S-4	7.20	1377	1.000	0.155	0.059	0.006	0.010	0.000000	0.000000	2153.17	1
	FID		ACIS-S-5	7.23	1377	1.000	-0.098	0.011	0.007	0.012	0.000000	0.000000	-1811.35	1
	GUIDE	used	190847304	10.17	2753	1.000	0.039	0.037	0.151	0.252	196.395854	21.619494	1915.20	20
	GUIDE	used	190972784	9.63	2754	1.000	-0.007	0.032	0.167	0.247	197.351360	22.226147	2226.02	-17
	GUIDE	used	190973928	9.83	2755	1.000	-0.080	-0.008	0.160	0.269	197.904188	21.564389	-756.25	-21
	BAD	unused	190977856	0.00	0	-nan	0.000	0.000	14.340	19.657	198.028070	21.417679	-1433.81	-22
	GUIDE	used	190979840	10.35	2751	1.000	0.042	-0.076	0.174	0.291	197.337465	20.846267	-2070.86	7

## 2.4 Star Slots

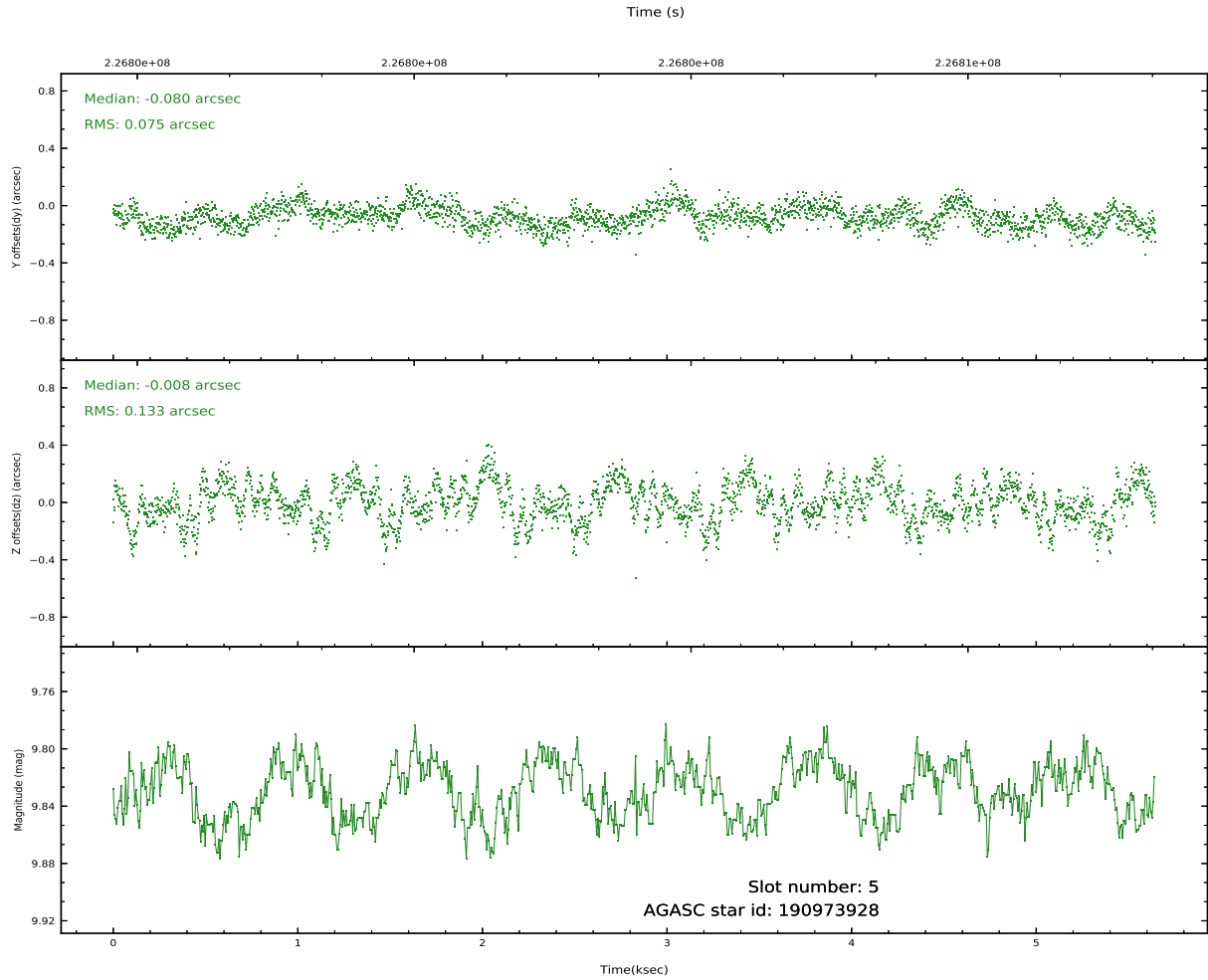
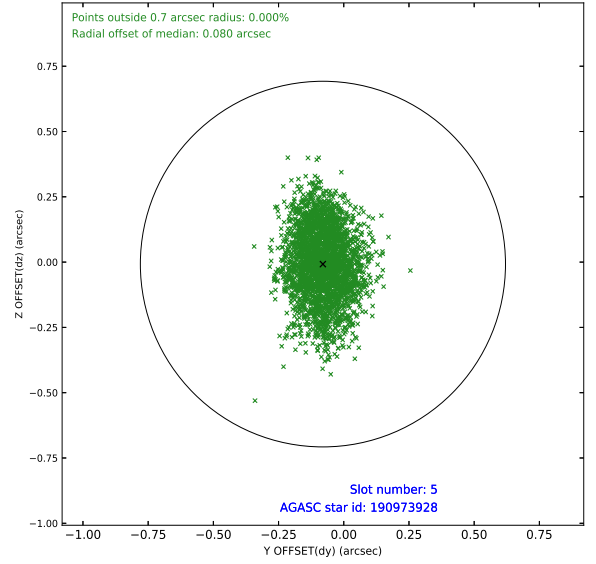
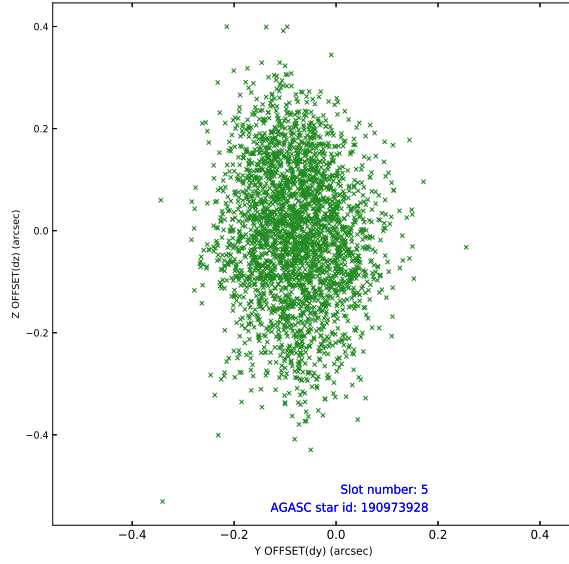
### 2.4.1 Slot 3



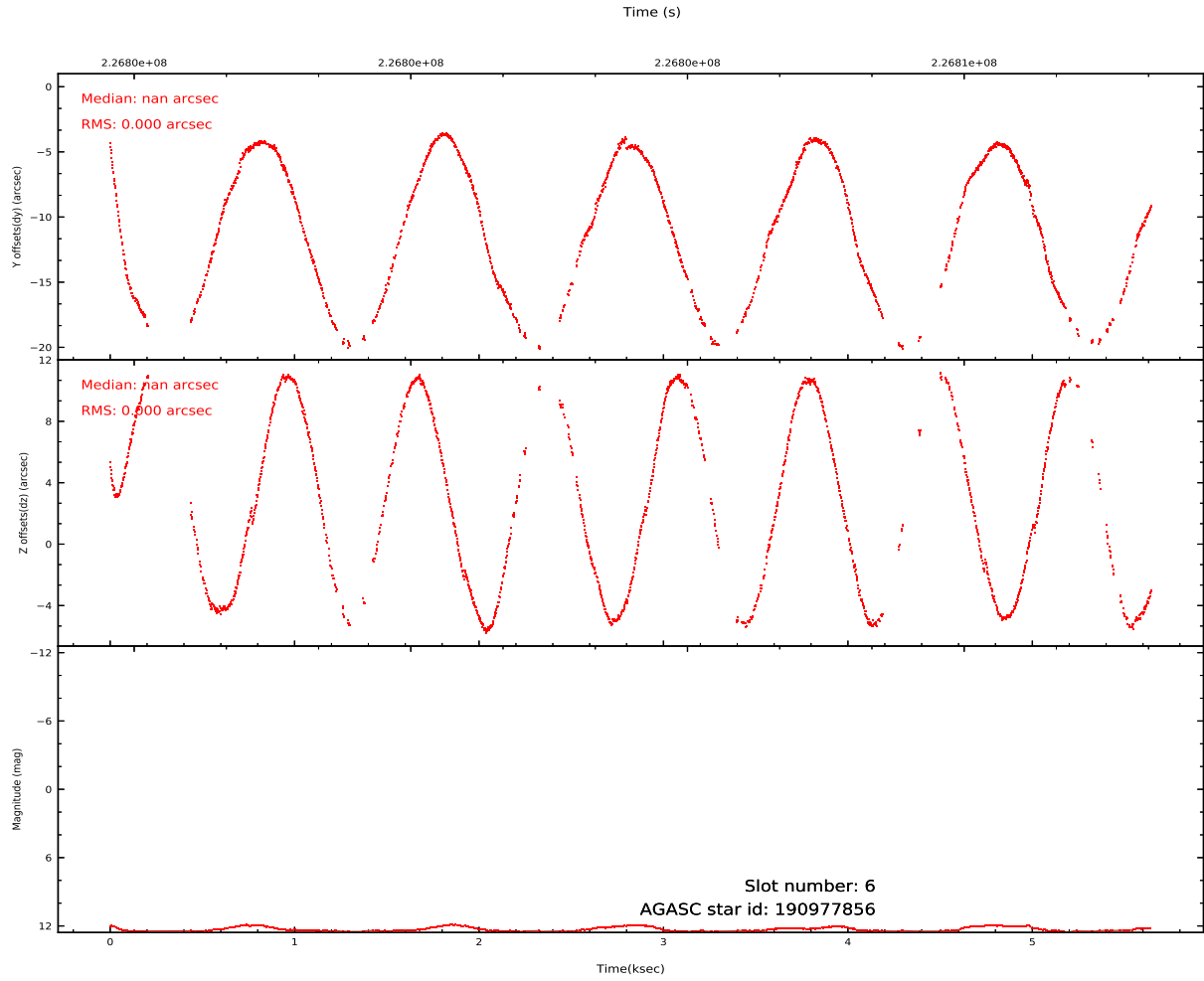
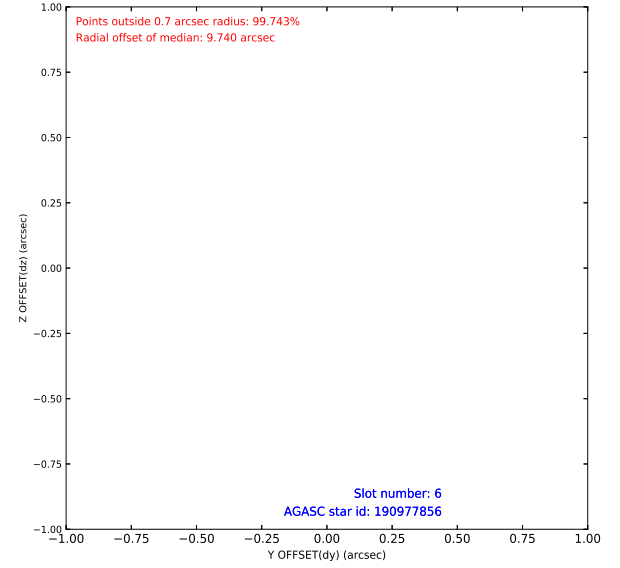
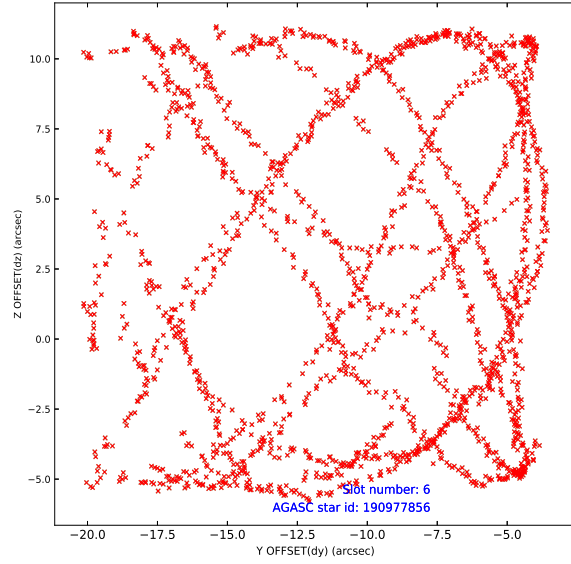
## 2.4.2 Slot 4



### 2.4.3 Slot 5

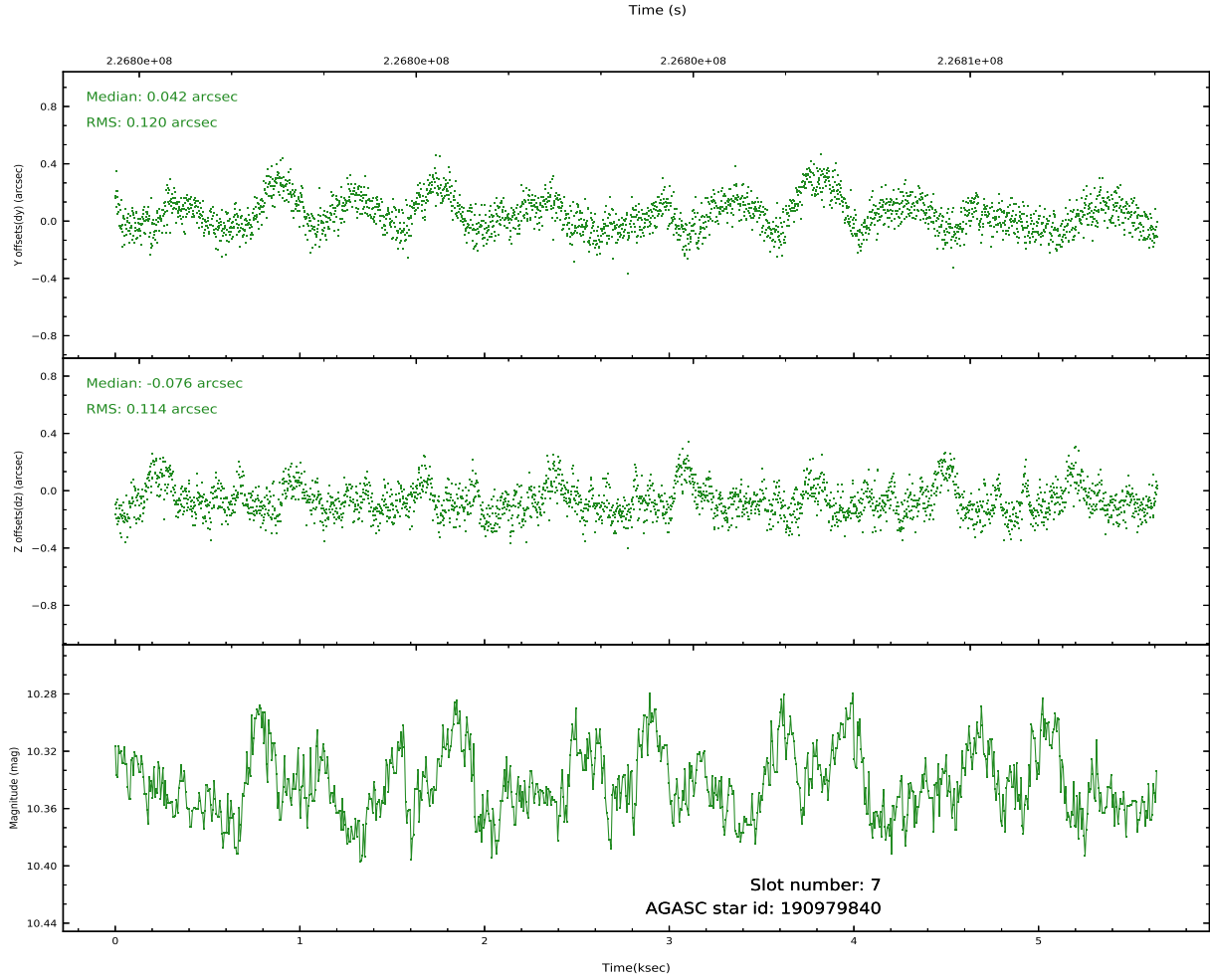
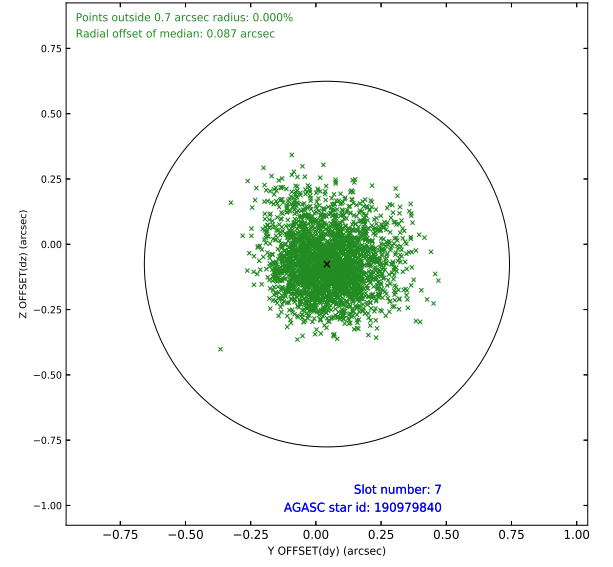
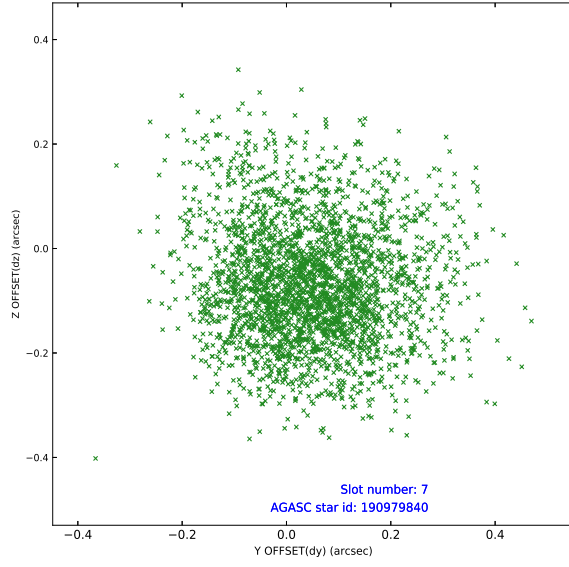


## 2.4.4 Slot 6



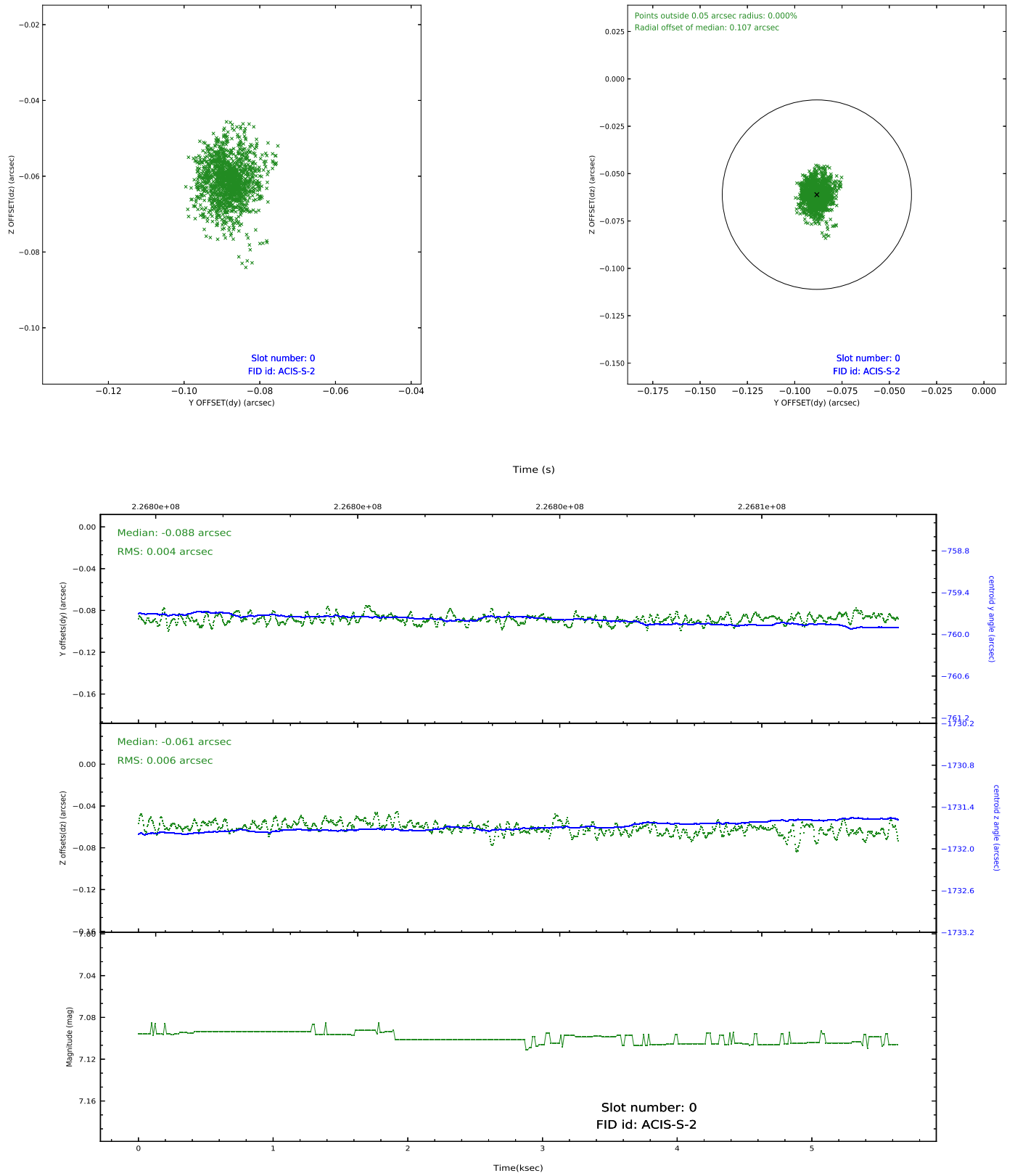


## 2.4.5 Slot 7

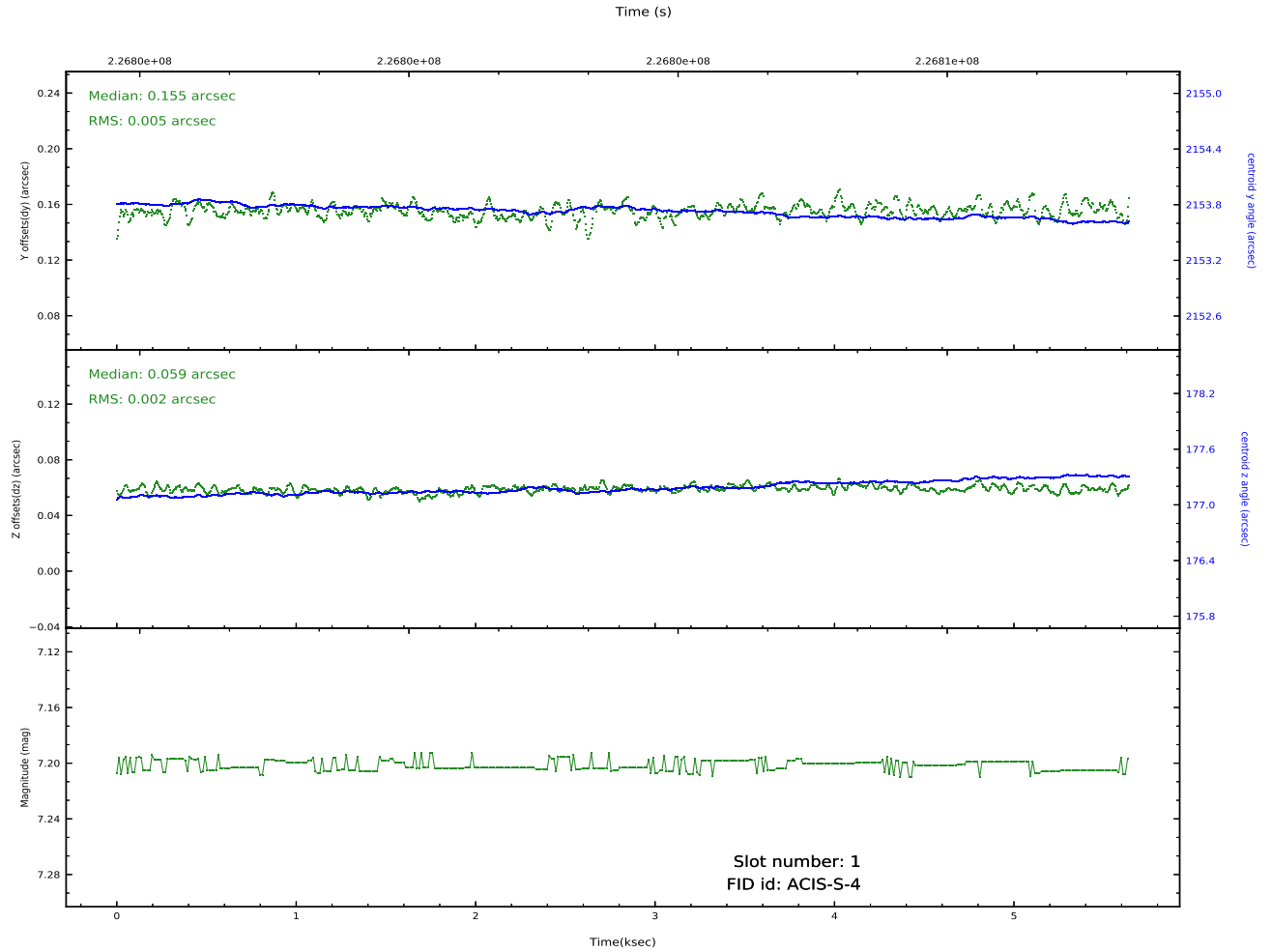
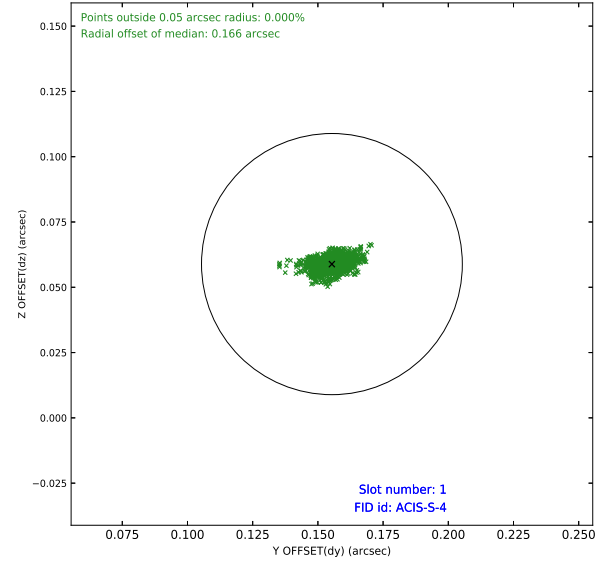
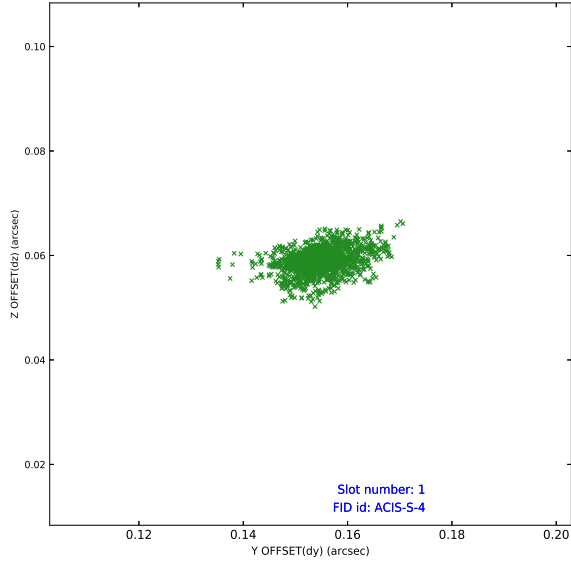


## 2.5 FID Slots

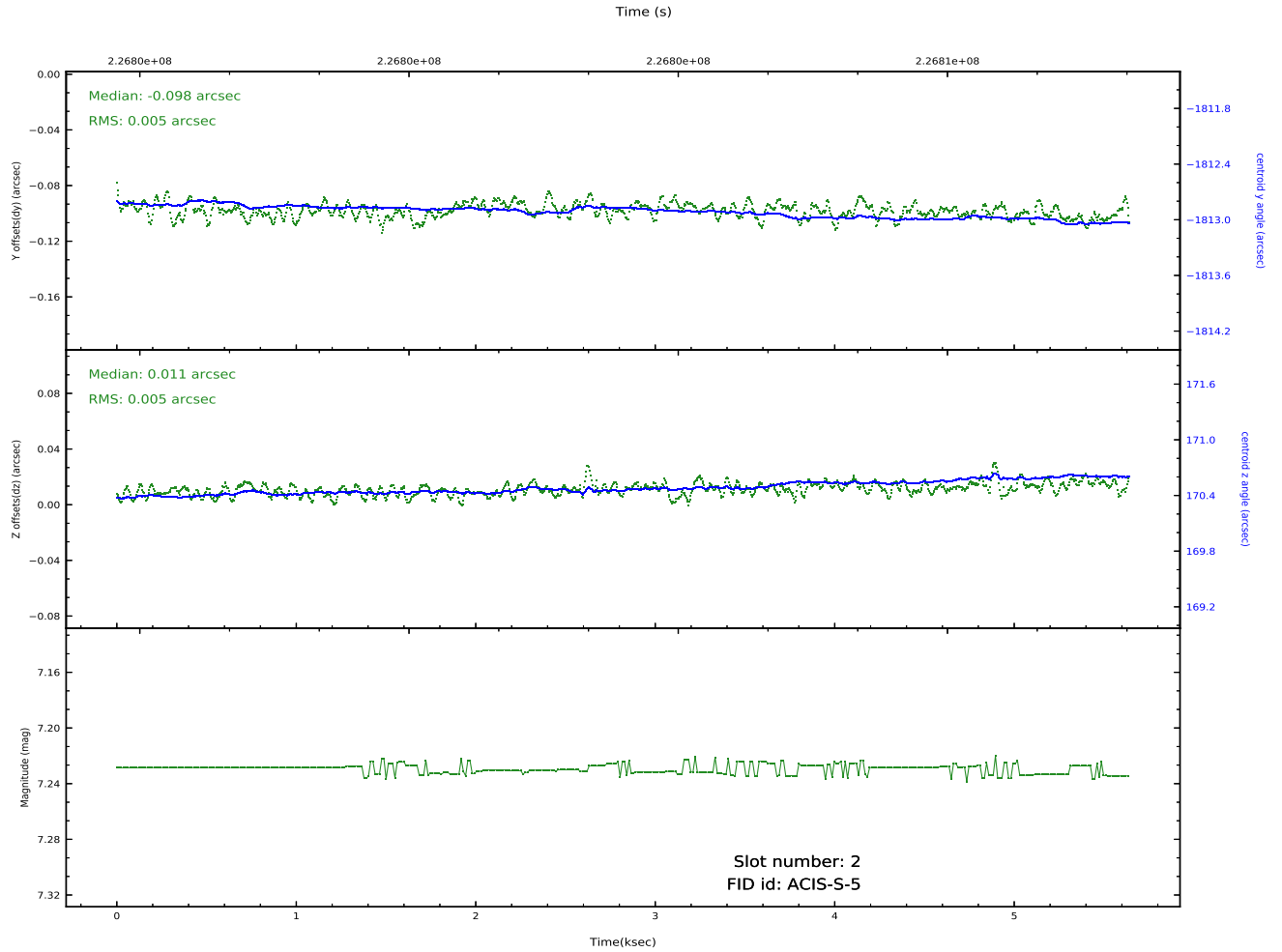
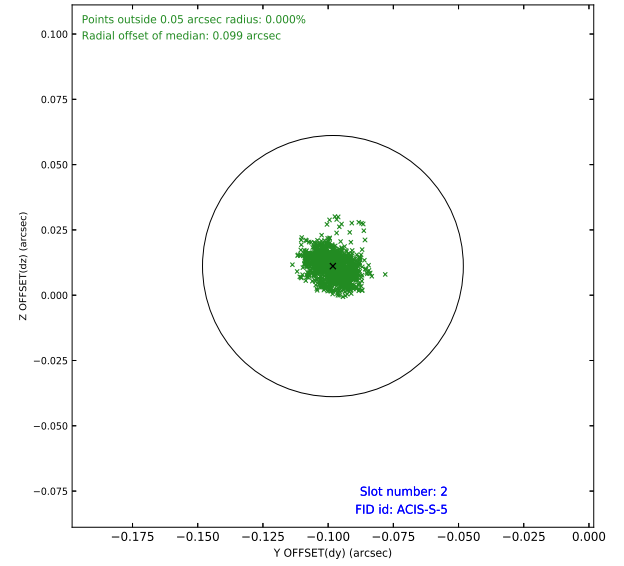
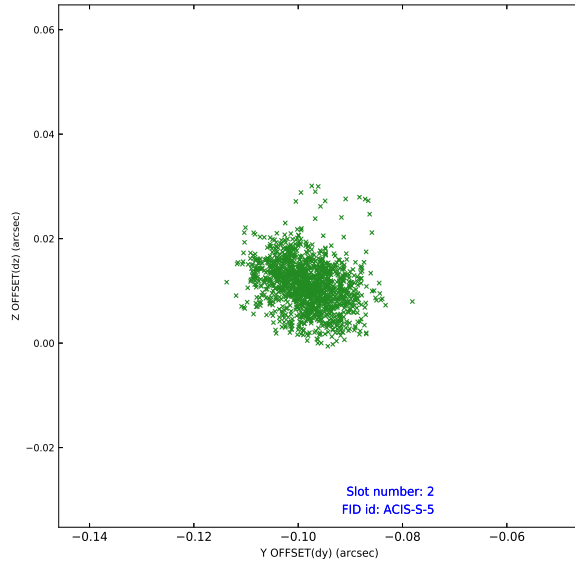
### 2.5.1 Slot 0



## 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	5.639

### A.2 Comments