

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 6204 - L2 Version 4  
Chandra X-Ray Center

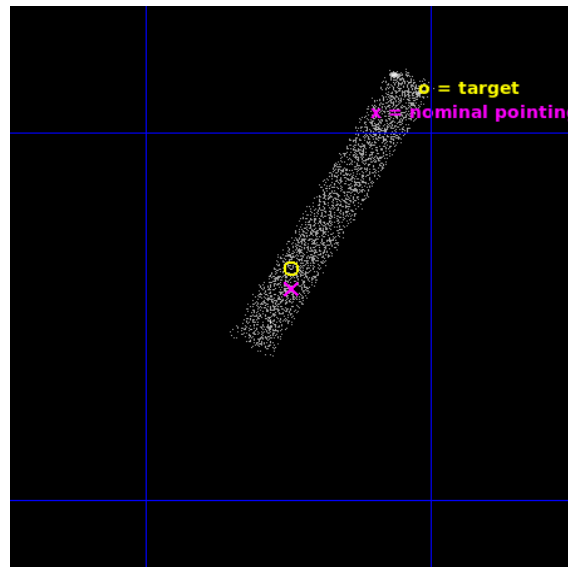
L2 Processing Date : Oct 6 2020

## 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

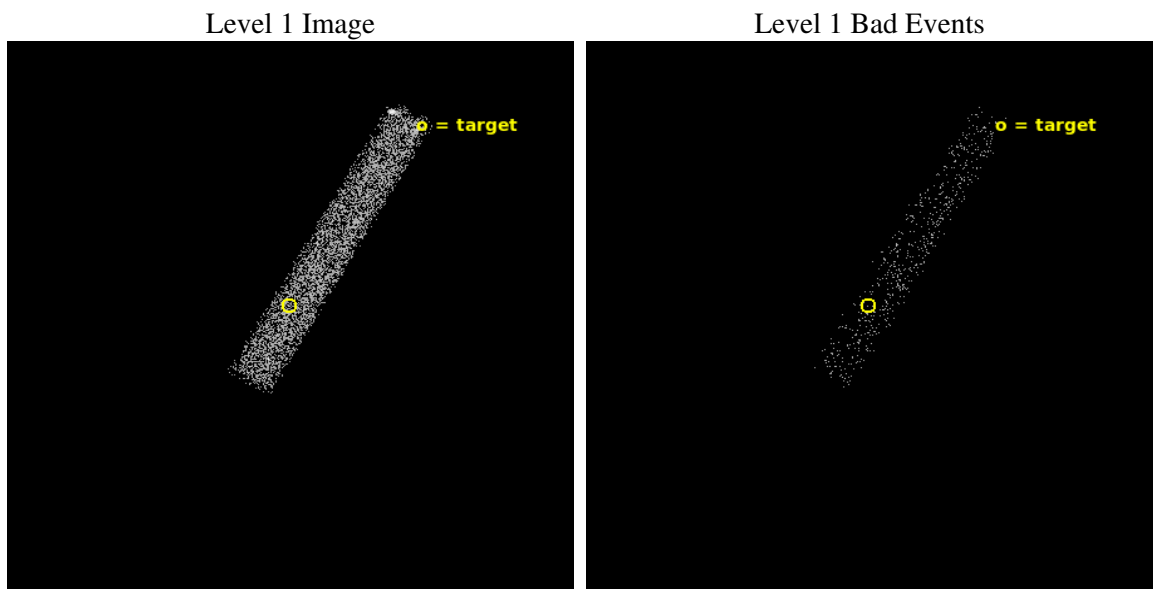
seq_num	200363	Sequence number
obs_id	6204	Observation id
title	Monitoring the X-ray Emission of the Newly Erupted EXor-type V1118 Ori	Proposal title
observer	Prof. Marc Audard	Principal investigator
object	V1118 Ori	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.68625	Observer's specified target RA [deg]
dec_targ	-5.561472	Observer's specified target Dec [deg]
ra_nom	83.685852767761	Nominal RA [deg]
dec_nom	-5.5707751723348	Nominal Dec [deg]
roll_nom	300.09488268034	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5136.4000765085	Sum of GTIs [s]
livetime	4658.4437479671	Livetime [s]
ontime7	5136.4000765085	Sum of GTIs [s]
l2events	3367	Number of level 2 events



## 2 OBI

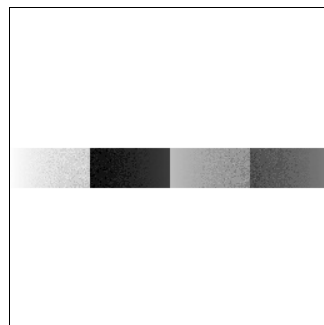
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5136.4000765085	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime7	5136.4000765085	Sum of GTIs [s]
date	2020-10-06T09:20:24	Date and time of file creation	l1events	8375	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	8375
rejected events	4895
rejected %	58%

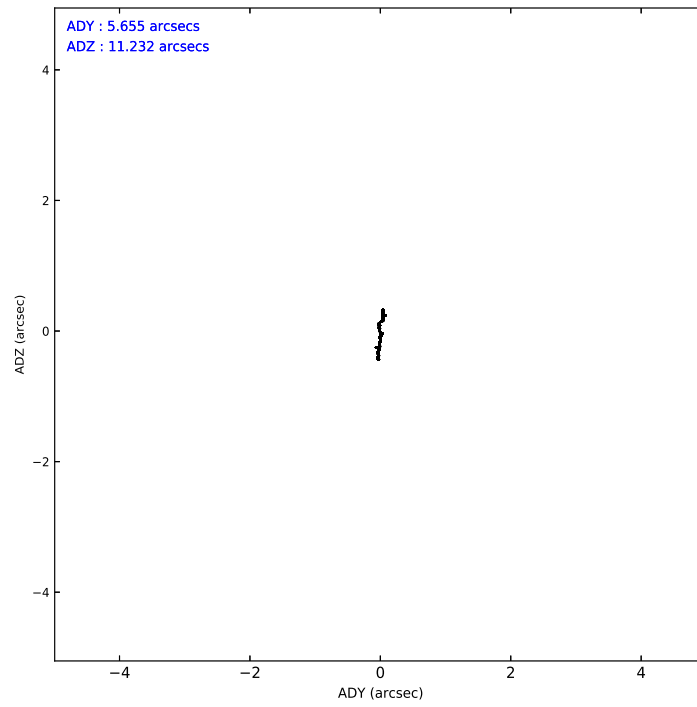
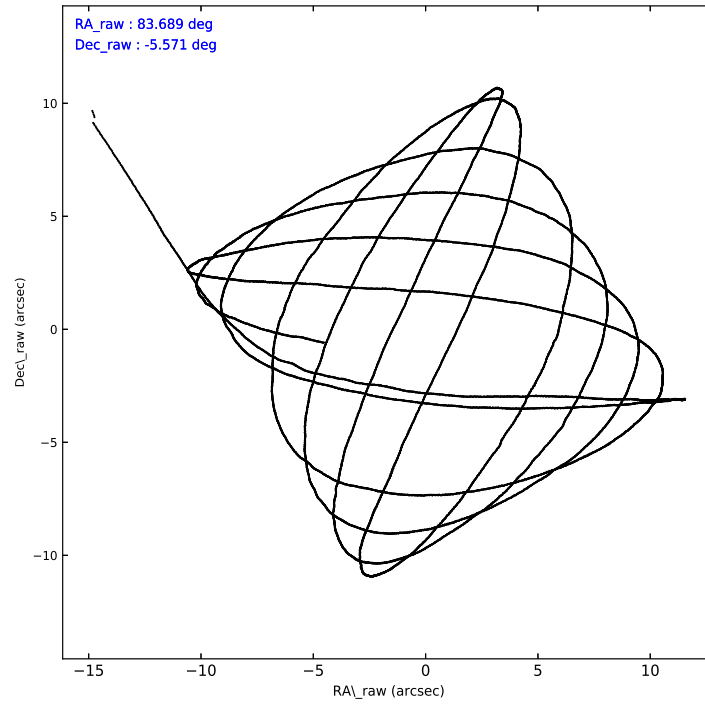
	<b>ccd 7</b>
grade 0 events	495
	5%
grade 1 events	13
	0%
grade 2 events	799
	9%
grade 3 events	553
	6%
grade 4 events	536
	6%
grade 5 events	714
	8%
grade 6 events	1723
	20%
grade 7 events	3542
	42%

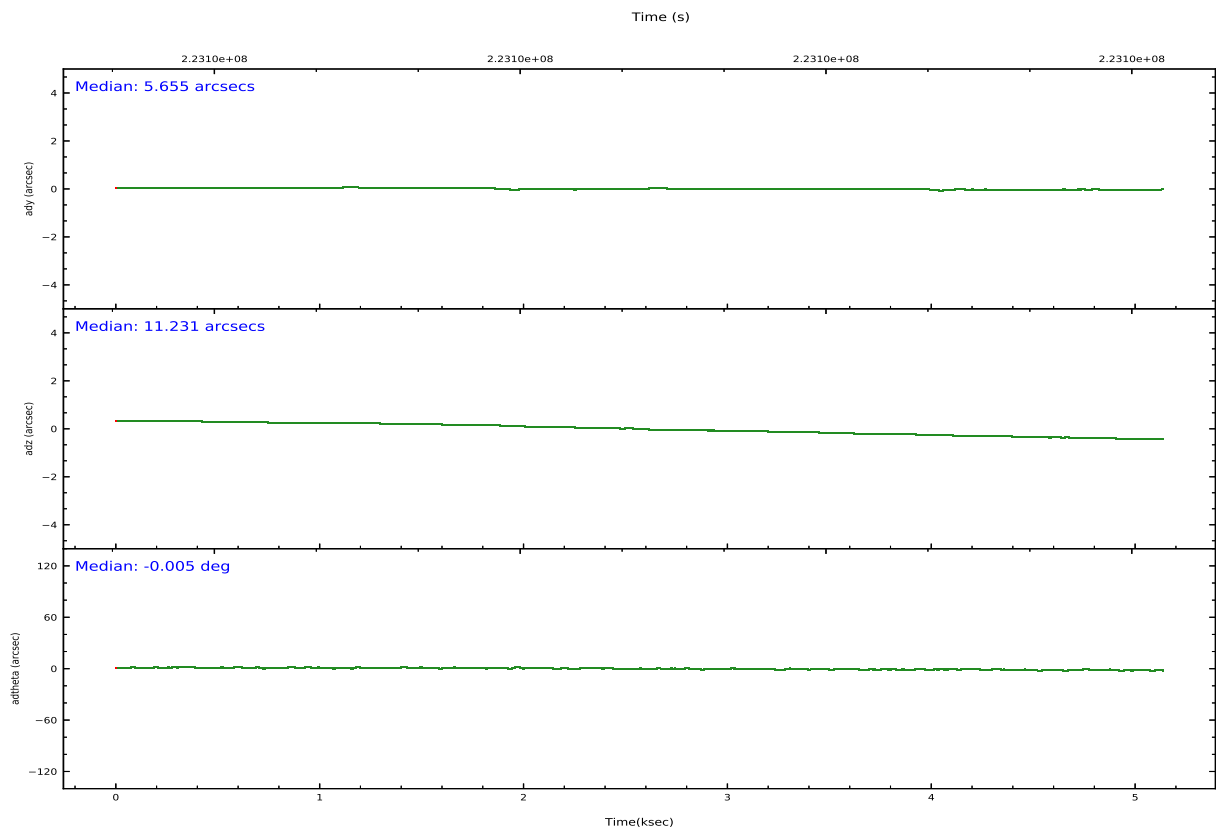
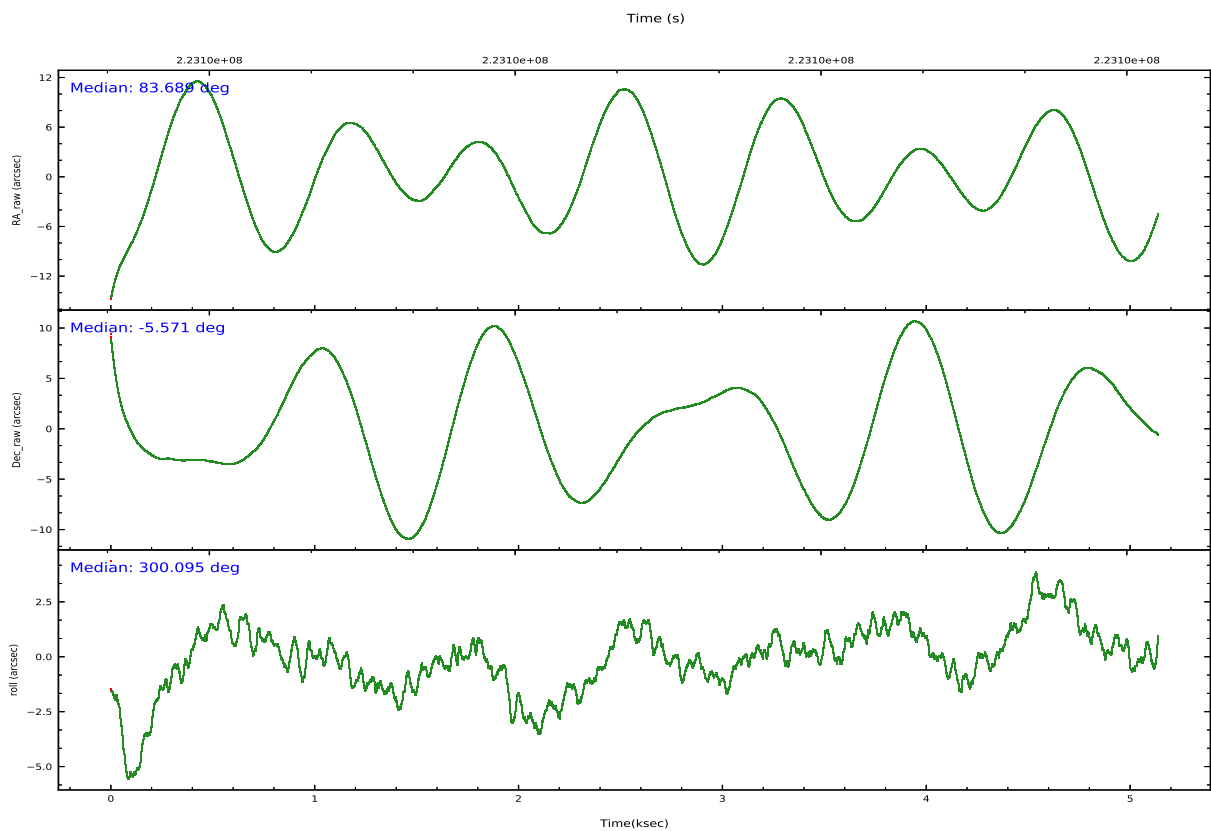


## 2.2 Compared Parameters

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	83.665675	83.68585276776101	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-5.557298	-5.5707751723348	Subarray start row	449	449
[deg] Pointing Roll	299.933174	300.09488268034	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)	223097154.184000	223096042.32241			
Observation start date	2005-01-26T03:24:50	2005-01-26T03:07:22			
[s] Observation end time (MET)	223102154.184000	223103047.17273			
Observation end date	2005-01-26T04:48:10	2005-01-26T05:04:07			
Read mode	TIMED	TIMED			

## 2.3 Aspect



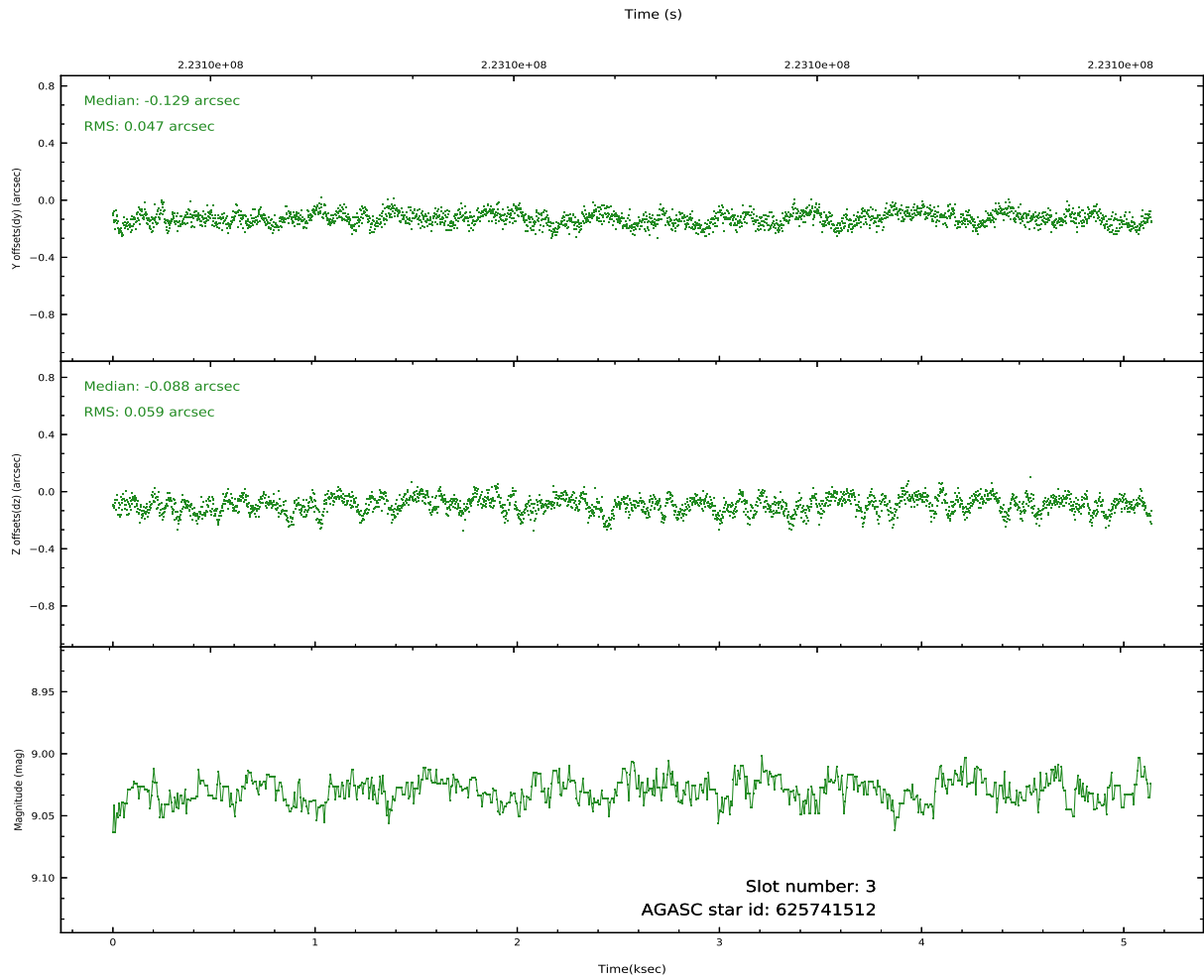
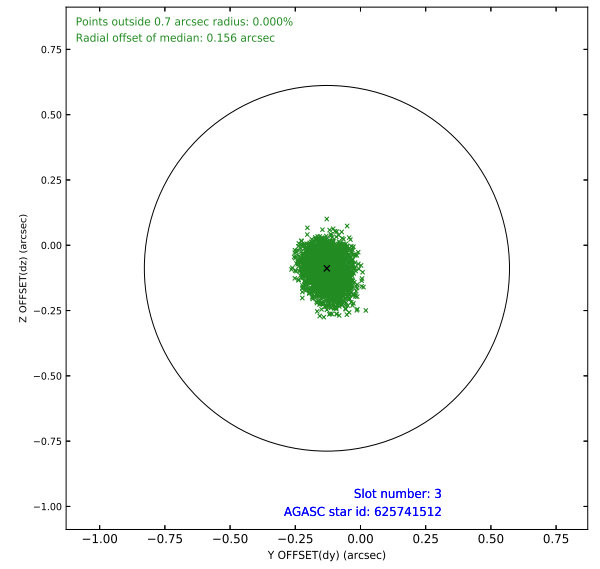
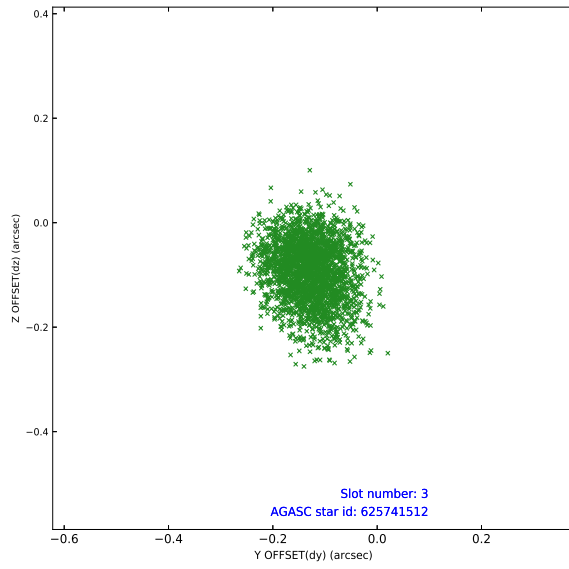


Slot Statistics

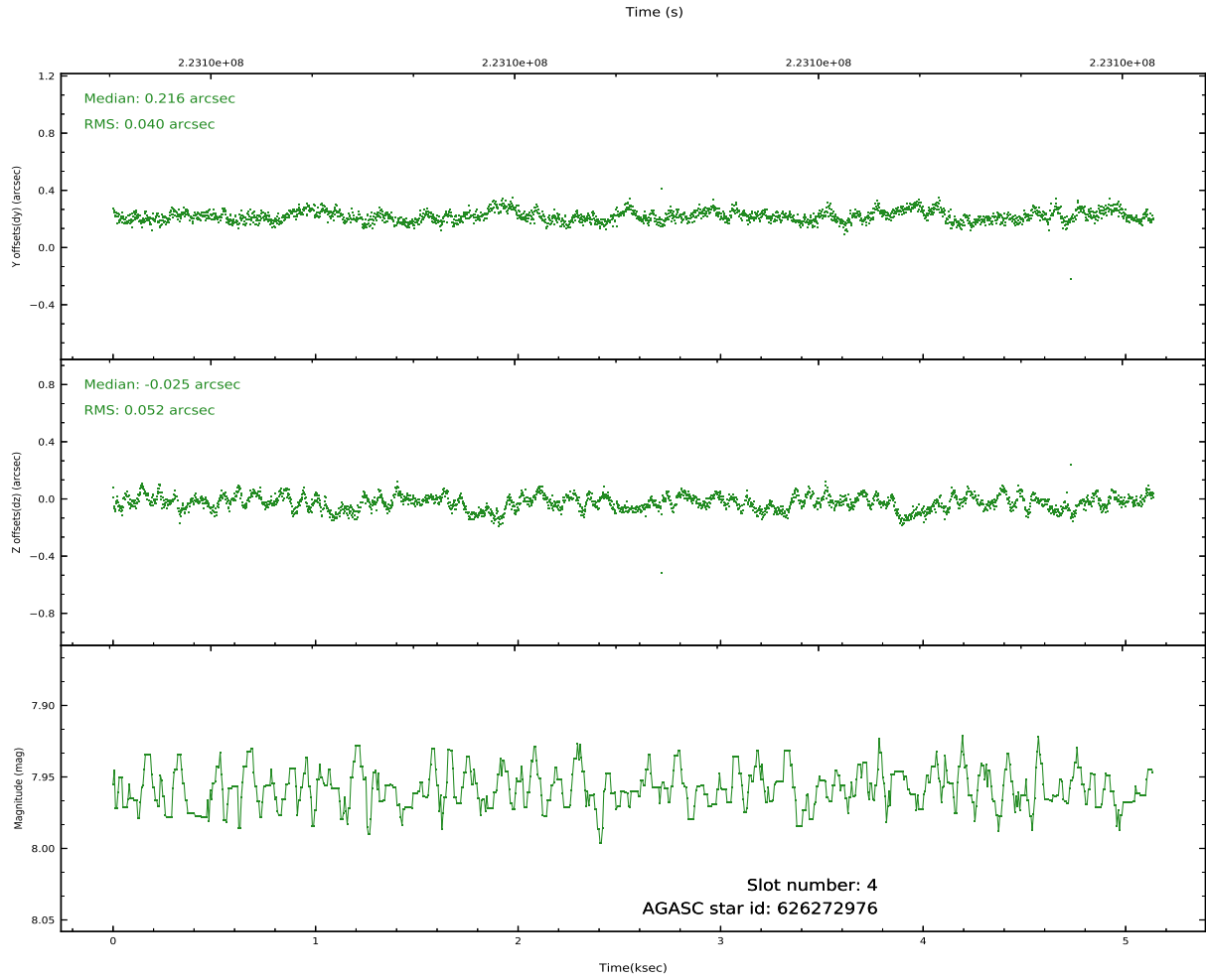
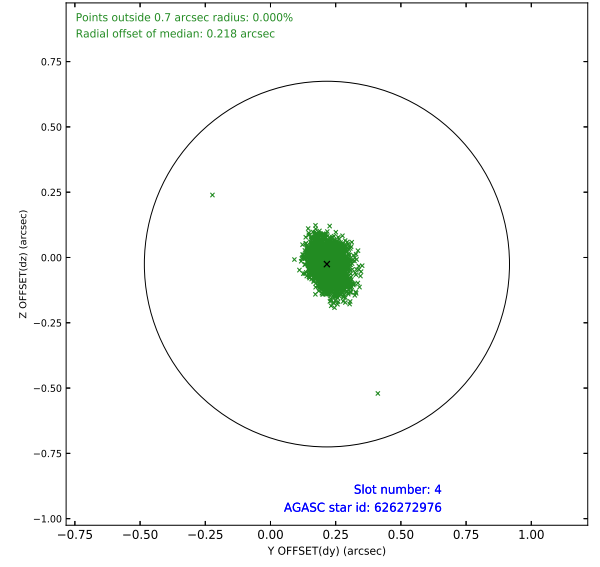
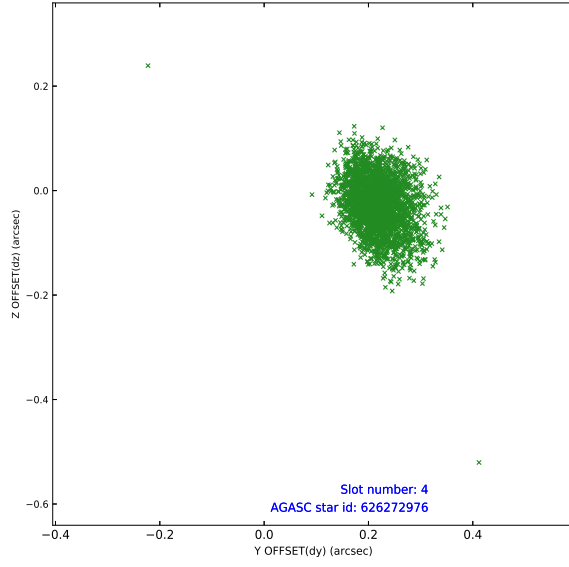
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	1254	1.000	0.040	-0.093	0.010	0.017	0.000000	0.000000	937.67	-1728
1	FID		ACIS-S-5	7.24	1252	1.000	-0.108	0.004	0.008	0.012	0.000000	0.000000	-1810.78	168
2	FID		ACIS-S-6	7.34	1254	1.000	0.048	0.101	0.009	0.015	0.000000	0.000000	402.00	813
3	GUIDE	used	625741512	9.03	2507	1.000	-0.129	-0.088	0.081	0.131	83.281151	-5.340585	-1363.34	-805
4	GUIDE	used	626272976	7.96	2507	1.000	0.216	-0.025	0.068	0.113	83.795875	-5.926912	1385.72	-259
5	GUIDE	used	625745144	7.86	2507	1.000	-0.124	-0.001	0.072	0.115	83.888985	-4.837539	-1845.10	1987
6	GUIDE	used	625745272	9.21	2506	1.000	-0.102	0.108	0.109	0.184	83.734325	-4.765942	-2346.65	1636
7	GUIDE	used	626272760	6.62	2505	1.000	0.131	0.006	0.073	0.125	84.363987	-5.938389	2437.36	1482

## 2.4 Star Slots

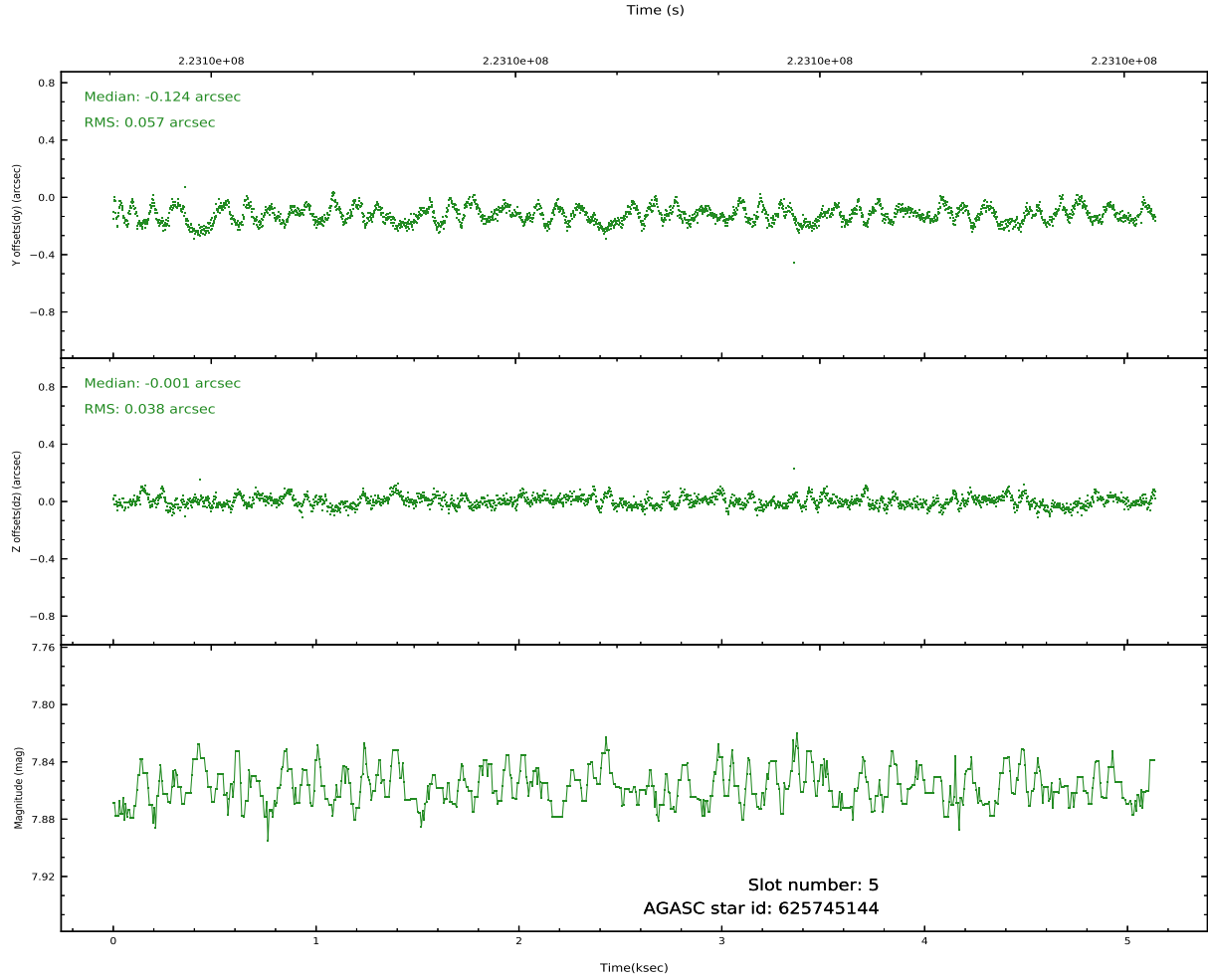
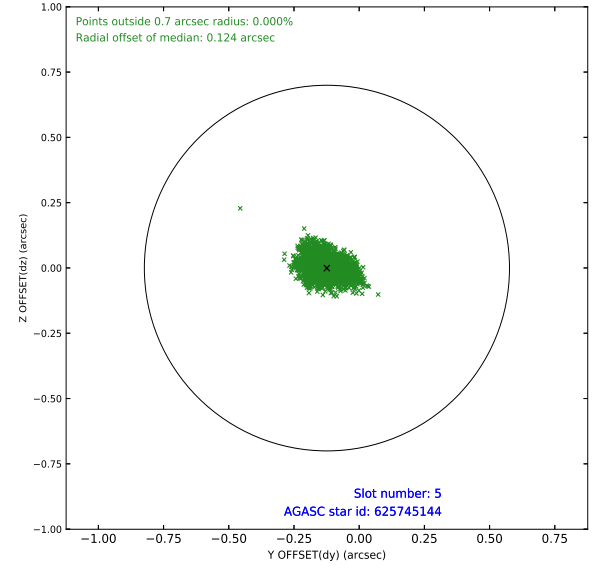
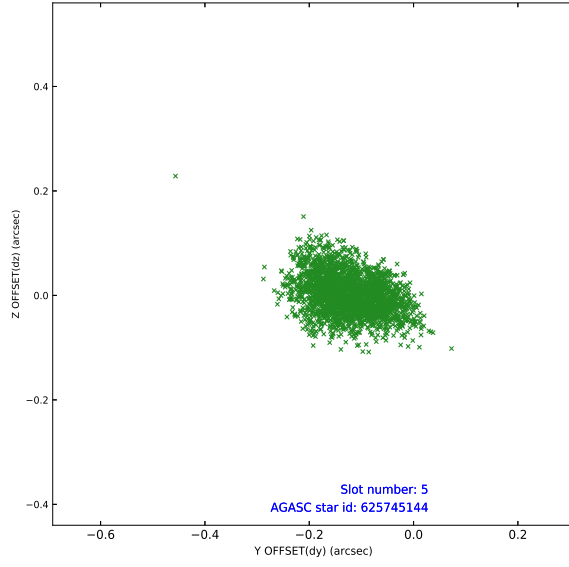
### 2.4.1 Slot 3



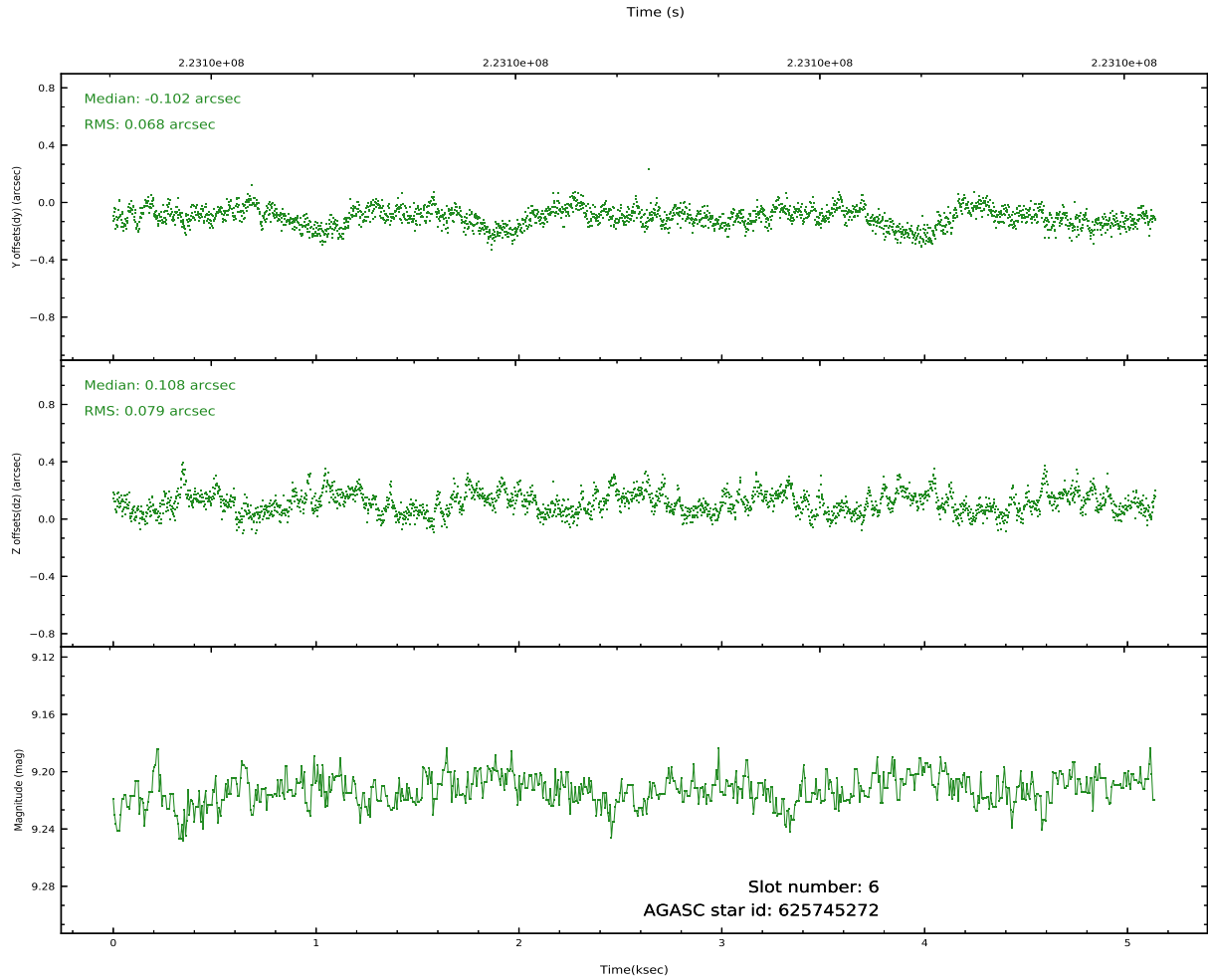
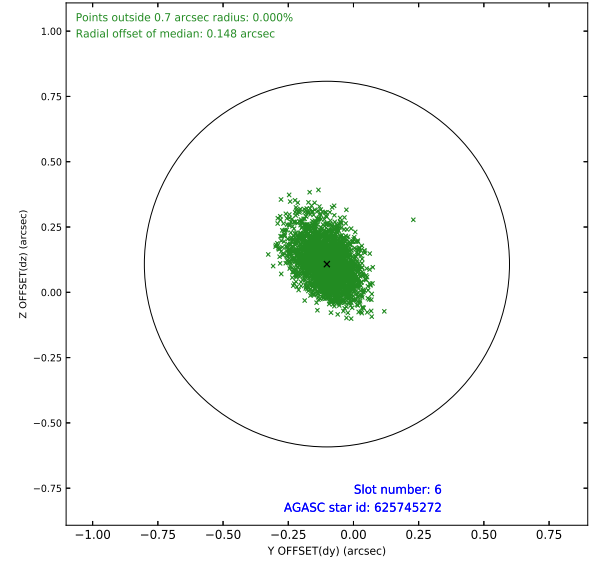
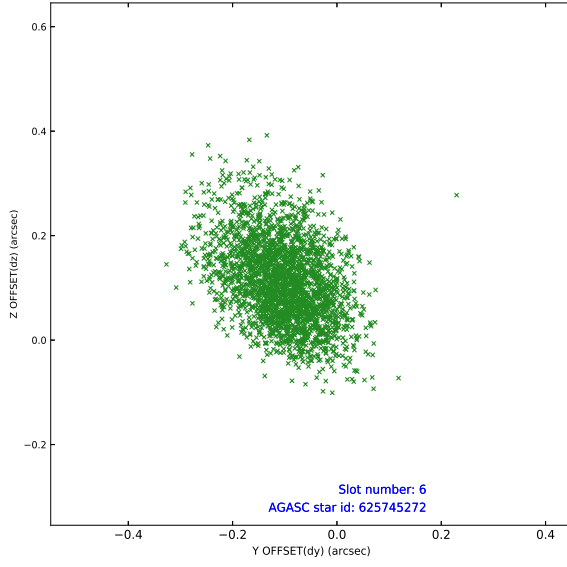
## 2.4.2 Slot 4



### 2.4.3 Slot 5

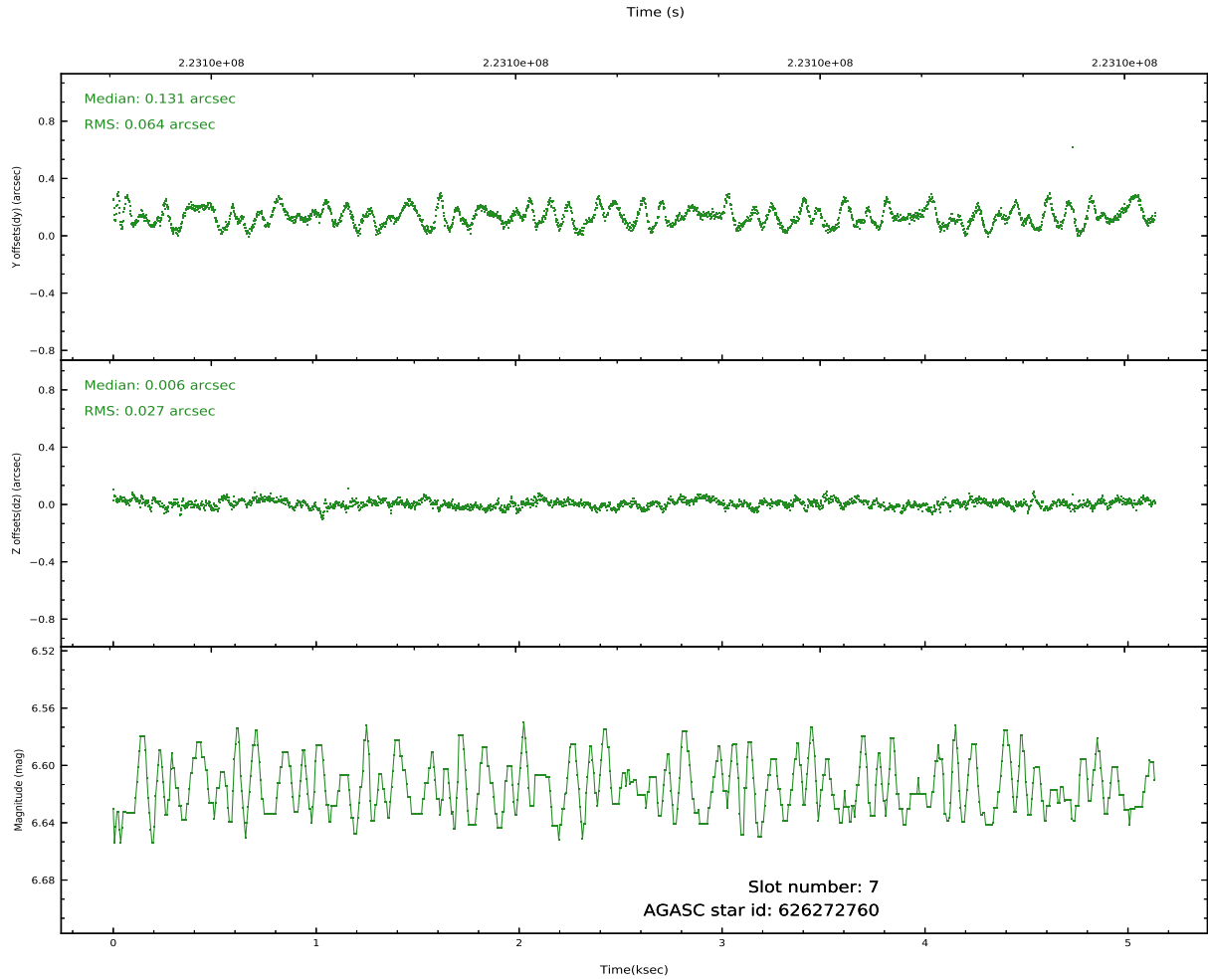
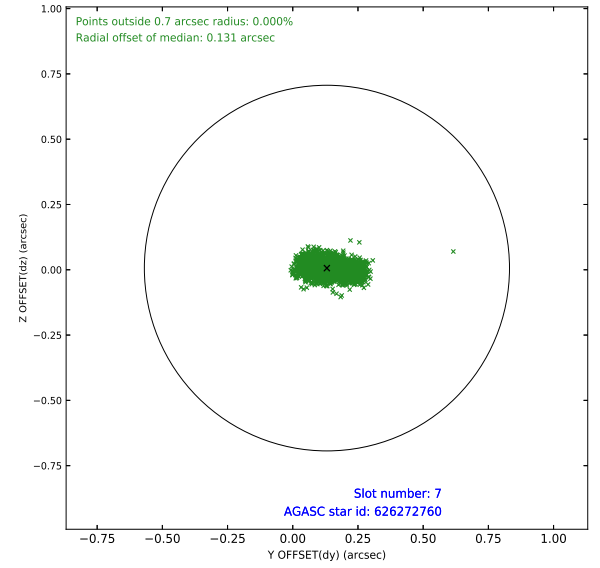
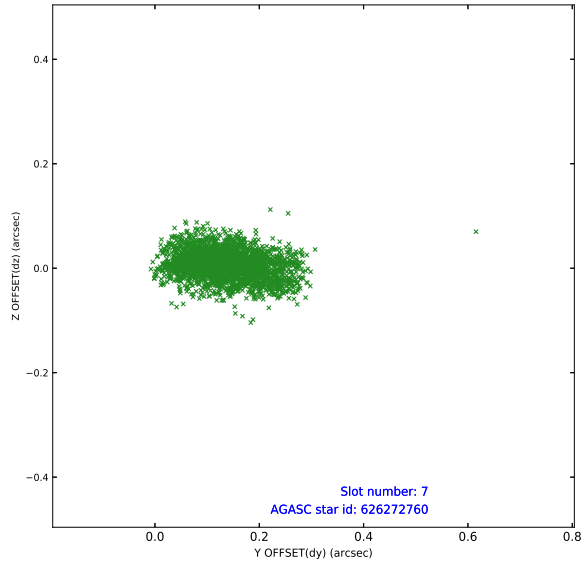


## 2.4.4 Slot 6



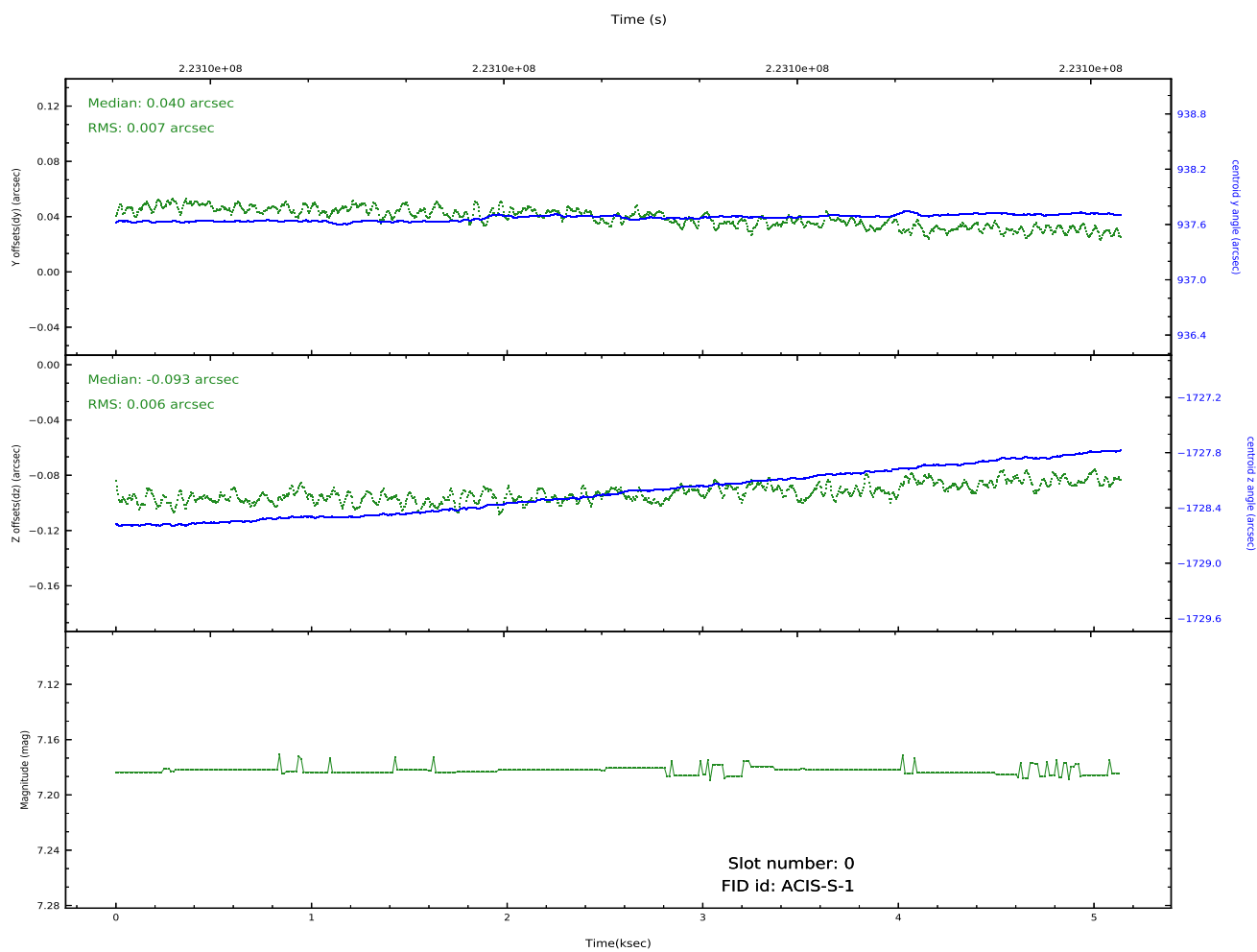
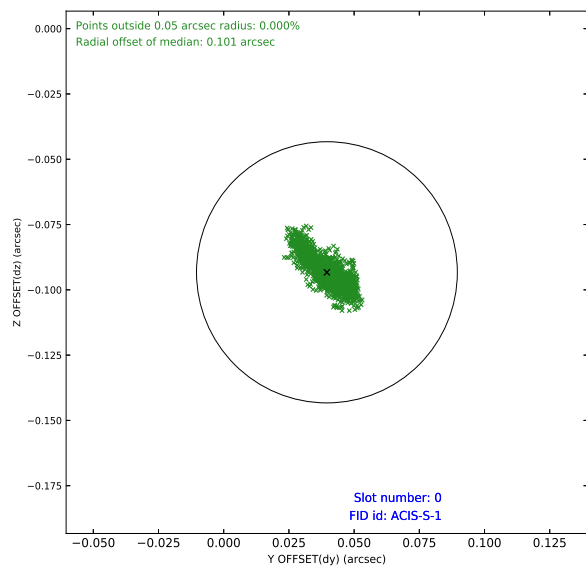
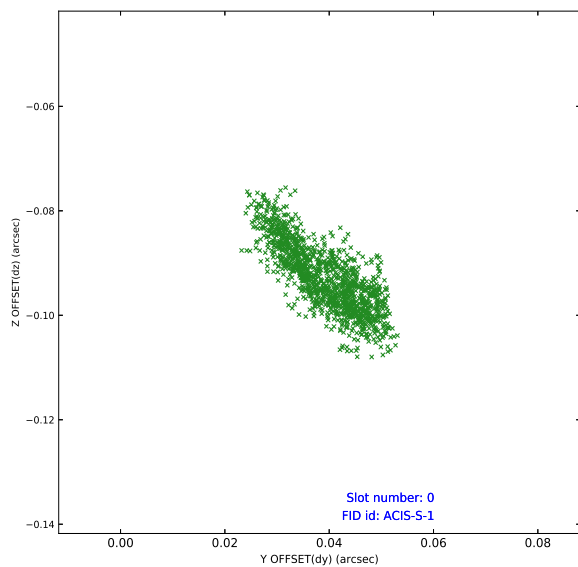


## 2.4.5 Slot 7

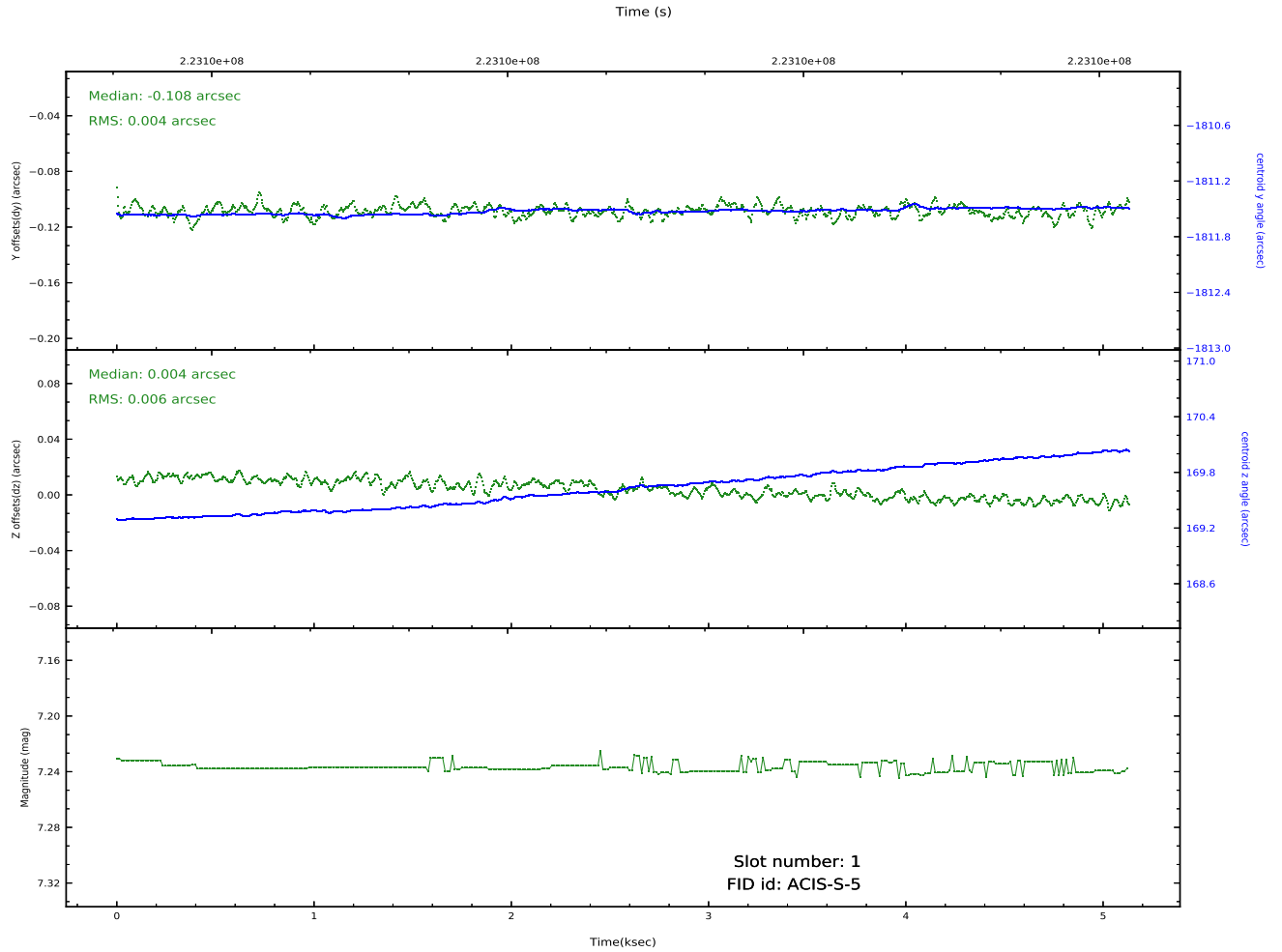
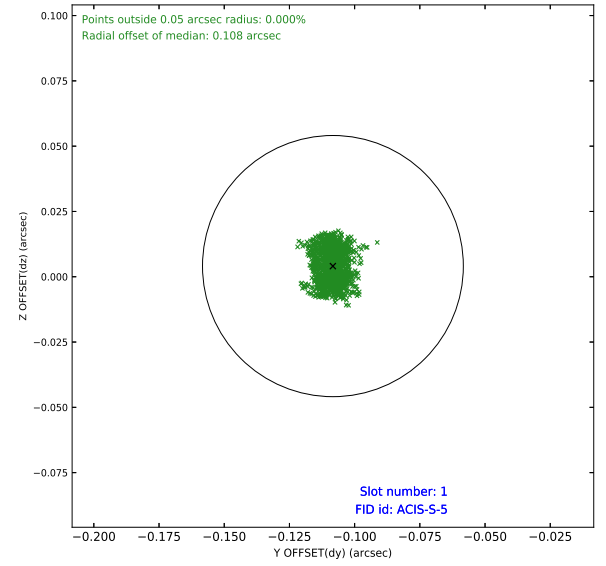
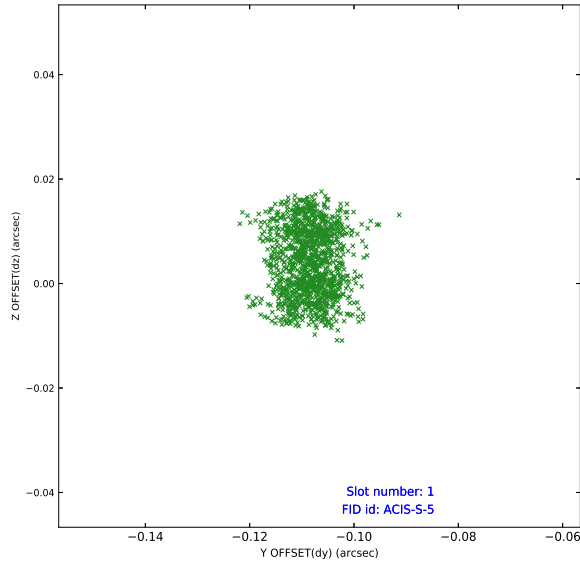


## 2.5 FID Slots

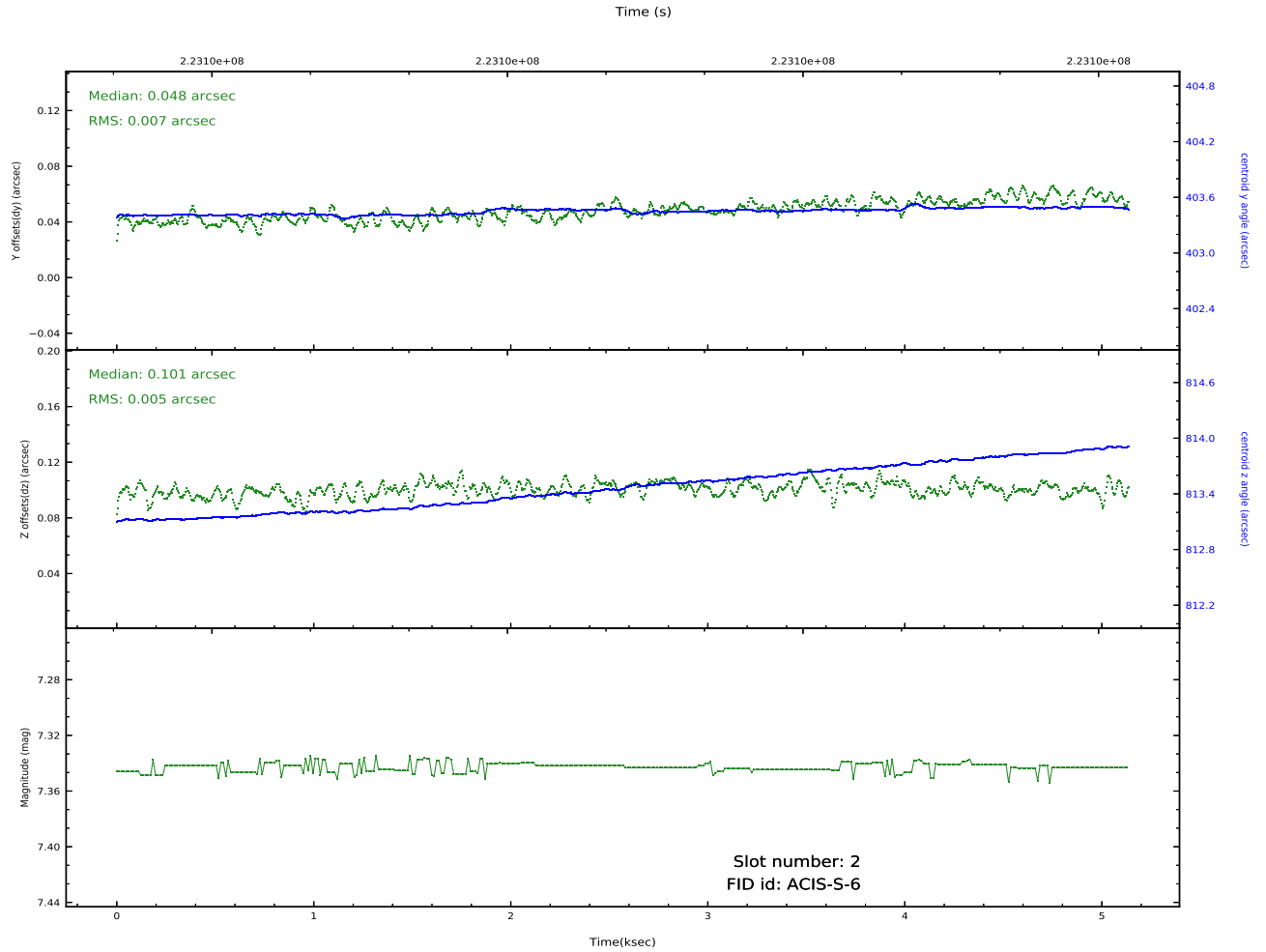
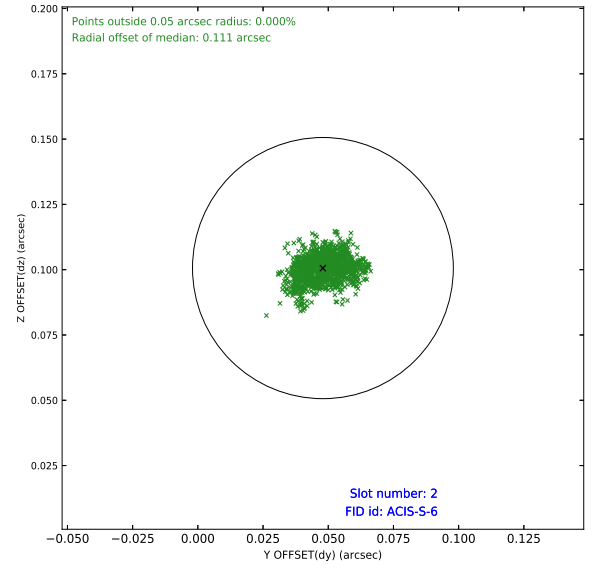
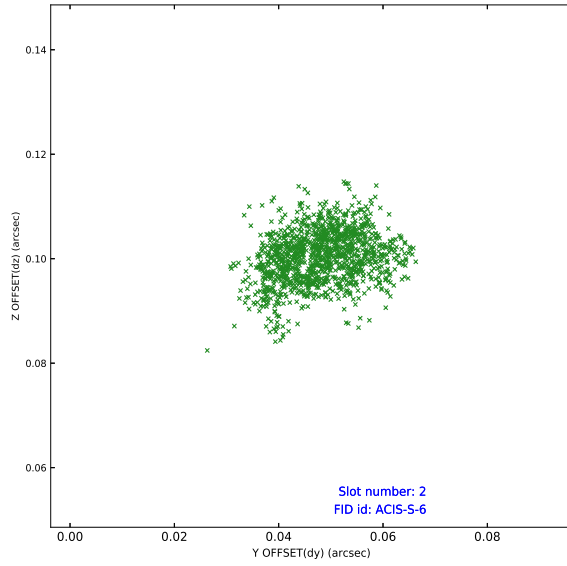
### 2.5.1 Slot 0



## 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)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1364

### A.2 Comments