

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4619 - L2 Version 4  
Chandra X-Ray Center

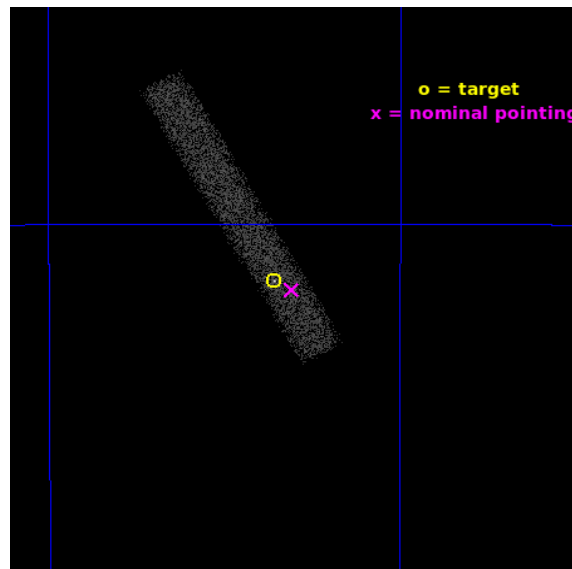
L2 Processing Date : Sep 23 2020

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# 1 Front

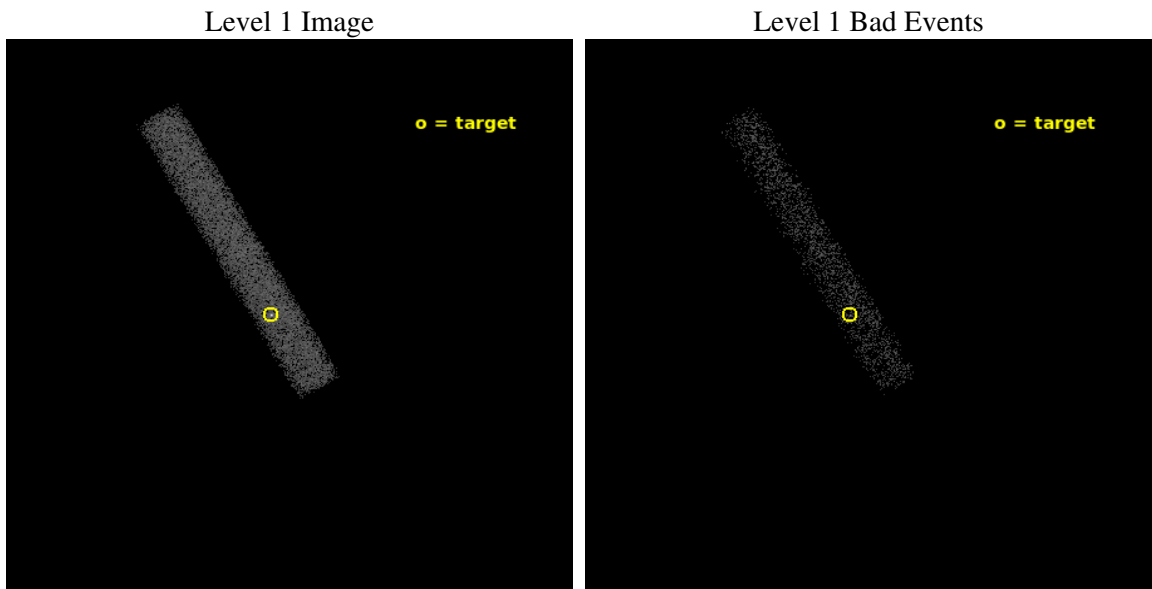
seq_num	500444	Sequence number
obs_id	4619	Observation id
title	PRECISION TIMING OF A POSSIBLE NEW ANOMALOUS X-RAY PULSAR	Proposal
observer	Prof. Bryan Gaensler	Principal investigator
object	CXOU J010043.1-721134	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	15.179583	Observer's specified target RA [deg]
dec_targ	-72.192722	Observer's specified target Dec [deg]
ra_nom	15.153864251454	Nominal RA [deg]
dec_nom	-72.196727048926	Nominal Dec [deg]
roll_nom	240.14749692032	Nominal Roll [deg]
revision	4	Processing version of data
ontime	16583.200247079	Sum of GTIs [s]
livetime	15040.08729102	Livetime [s]
ontime7	16583.200247079	Sum of GTIs [s]
l2events	9874	Number of level 2 events



## 2 OBI

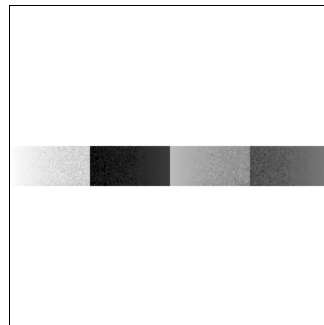
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	16437.950000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	16583.200247079	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime7	16583.200247079	Sum of GTIs [s]
date	2020-09-23T04:05:52	Date and time of file creation	l1events	22104	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

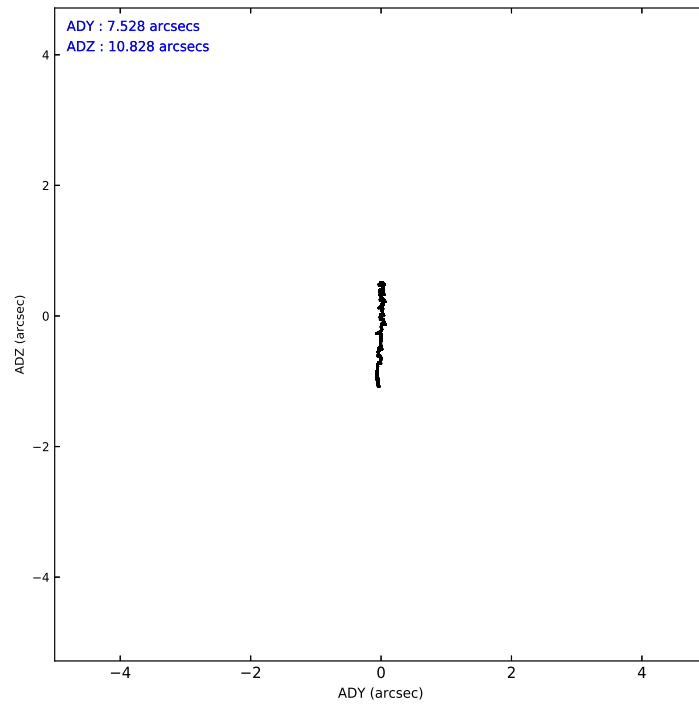
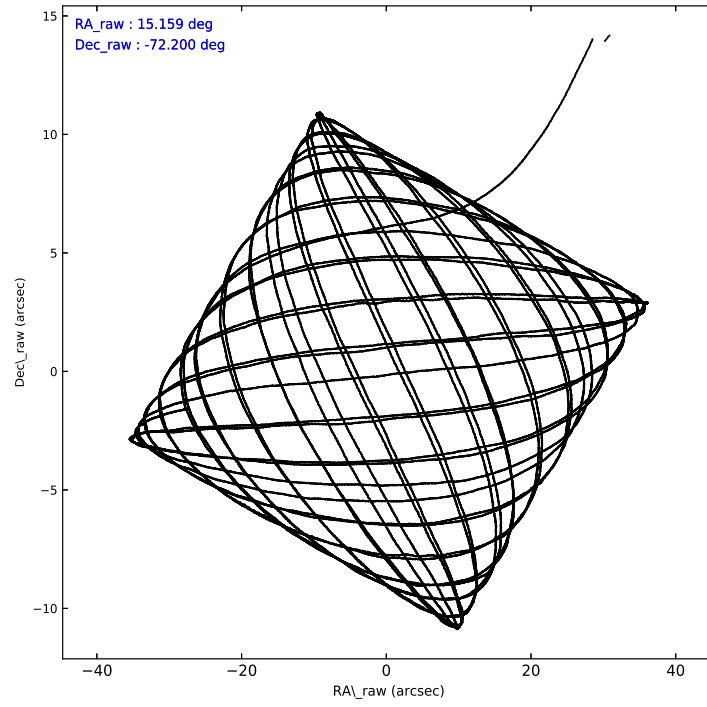
	ccd 7
level 1 events	22104
rejected events	11913
rejected %	53%

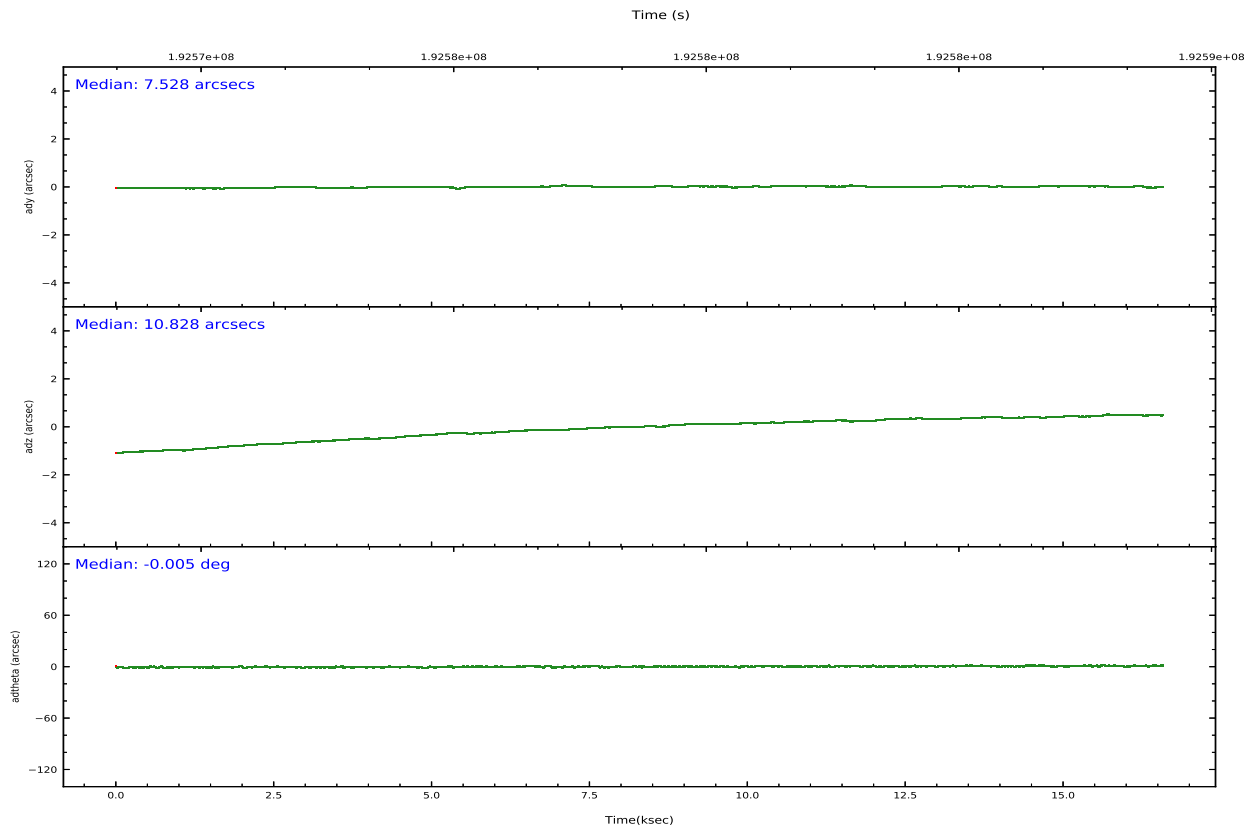
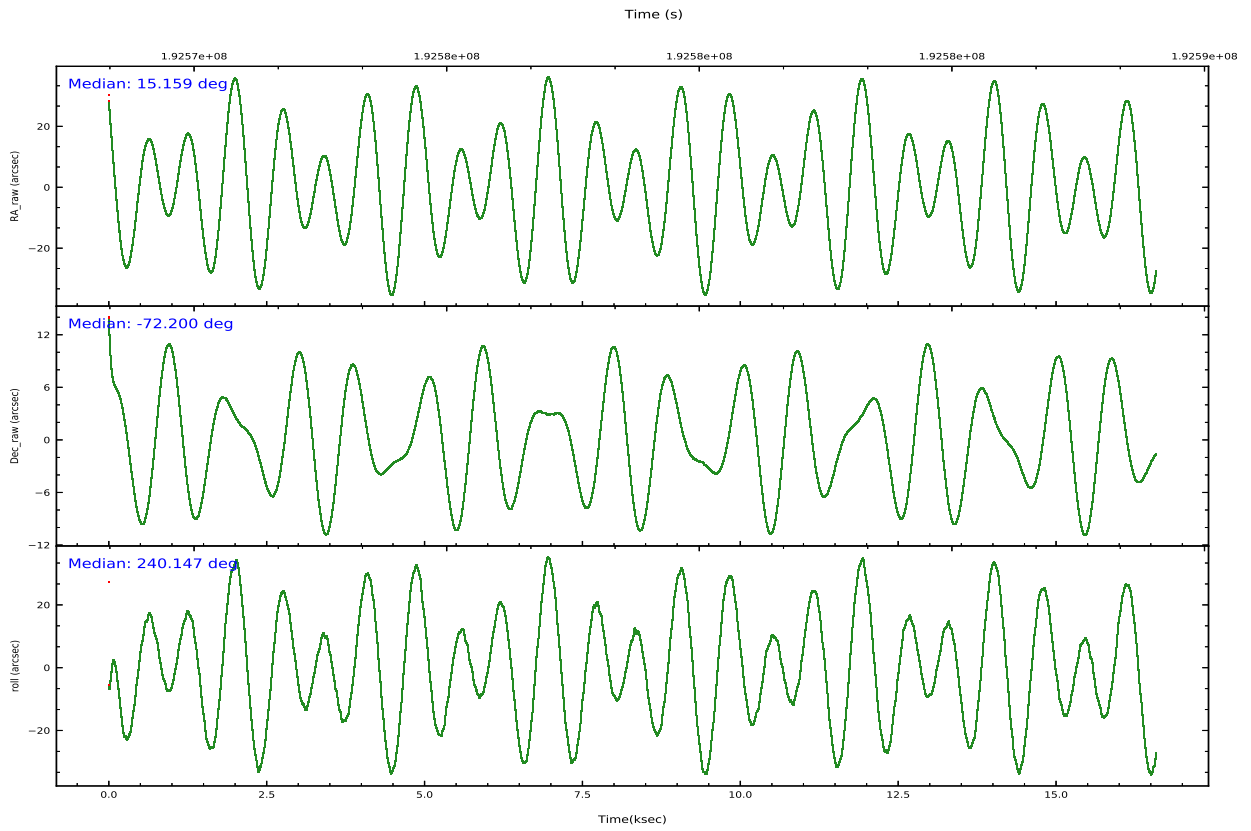
	ccd 7
grade 0 events	1540
	6%
grade 1 events	20
	0%
grade 2 events	2197
	9%
grade 3 events	1434
	6%
grade 4 events	1312
	5%
grade 5 events	1907
	8%
grade 6 events	4559
	20%
grade 7 events	9135
	41%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	15.157861	15.153864251454	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-72.172904	-72.19672704892599	Subarray start row	449	449
[deg] Pointing Roll	239.984374	240.14749692032	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)	192570796.184000	192568816.00291			
Observation start date	2004-02-07T19:52:12	2004-02-07T19:20:16			
[s] Observation end time (MET)	192587234.184000	192587548.39123			
Observation end date	2004-02-08T00:26:10	2004-02-08T00:32:28			
Read mode	TIMED	TIMED			

## 2.3 Aspect





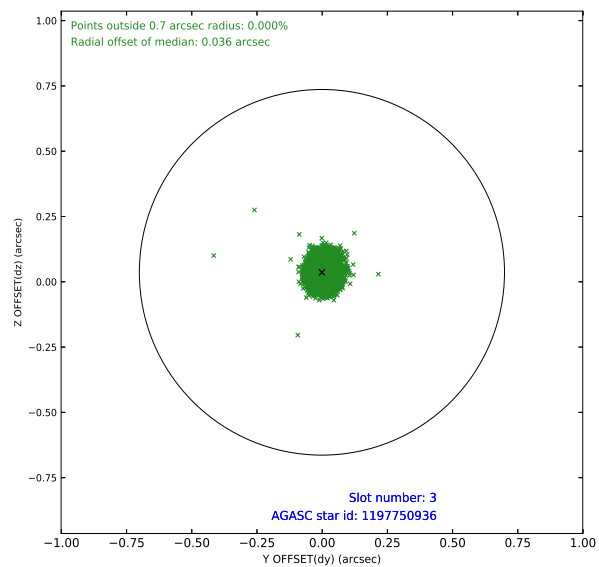
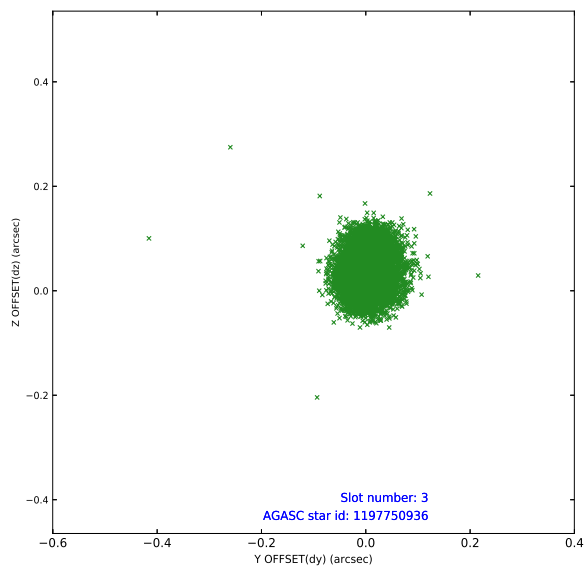
### Slot Statistics

slot	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	4046	1.000	0.014	-0.071	0.021	0.049	0.000000	0.000000	935.75	-1727
1	FID		ACIS-S-2	7.11	4046	1.000	-0.111	-0.026	0.015	0.025	0.000000	0.000000	-760.13	-1732
2	FID		ACIS-S-4	7.20	4046	1.000	0.072	0.102	0.012	0.026	0.000000	0.000000	2152.94	176
3	GUIDE	used	1197750936	7.57	8090	1.000	-0.001	0.036	0.052	0.080	15.387940	-71.549550	-2073.72	-894
4	GUIDE	used	1197884536	8.50	8091	1.000	0.065	0.017	0.065	0.103	17.160729	-71.835289	-2144.57	1356
5	GUIDE	used	1197884712	8.30	8089	1.000	0.042	0.052	0.054	0.087	16.087398	-72.252690	-254.94	1031
6	GUIDE	used	1197885328	7.22	8090	1.000	-0.011	-0.094	0.051	0.079	16.283090	-71.733943	-1993.59	315
7	GUIDE	used	1198189696	7.35	8089	1.000	-0.093	-0.014	0.042	0.067	15.223750	-72.697522	1599.75	1006

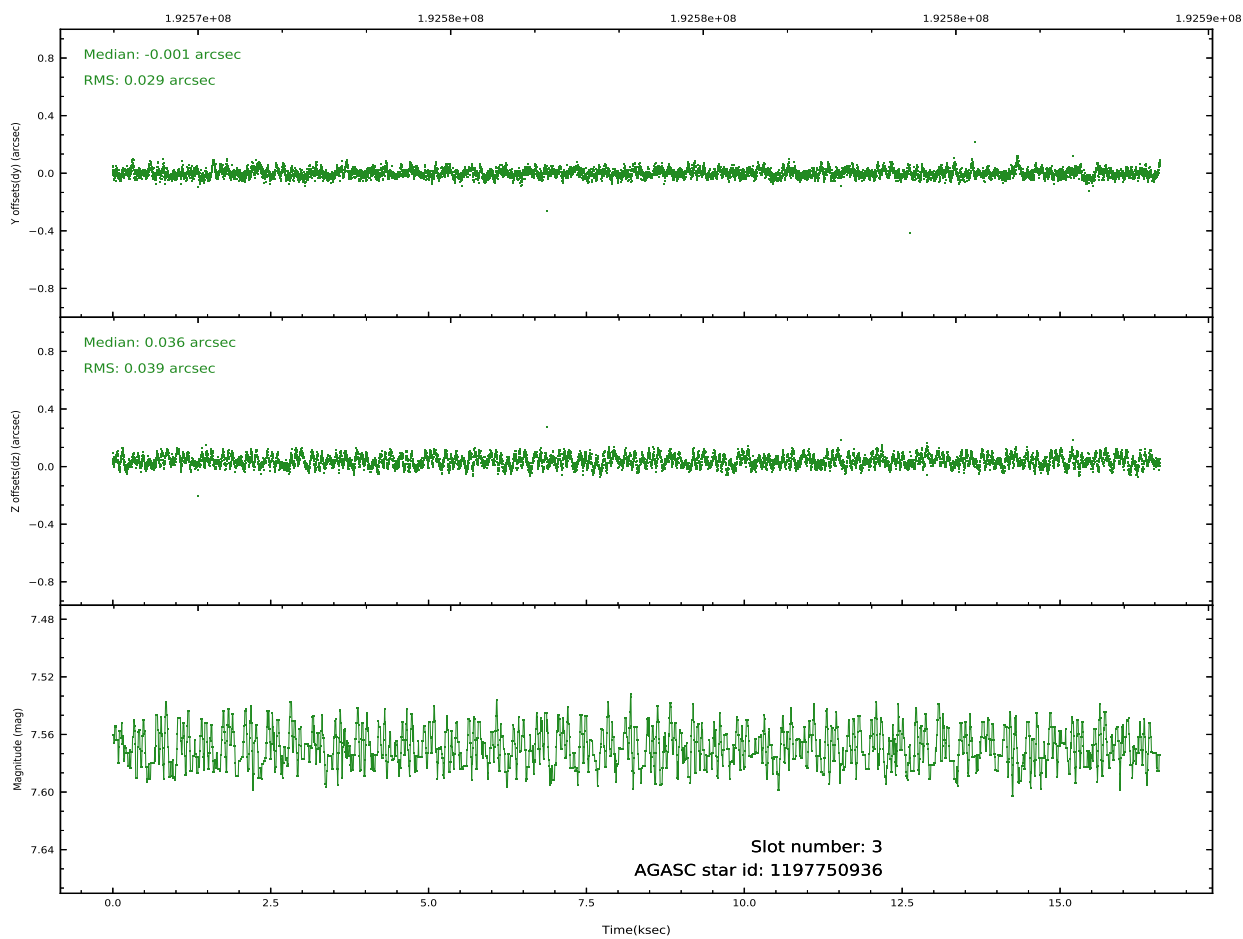
∞

## 2.4 Star Slots

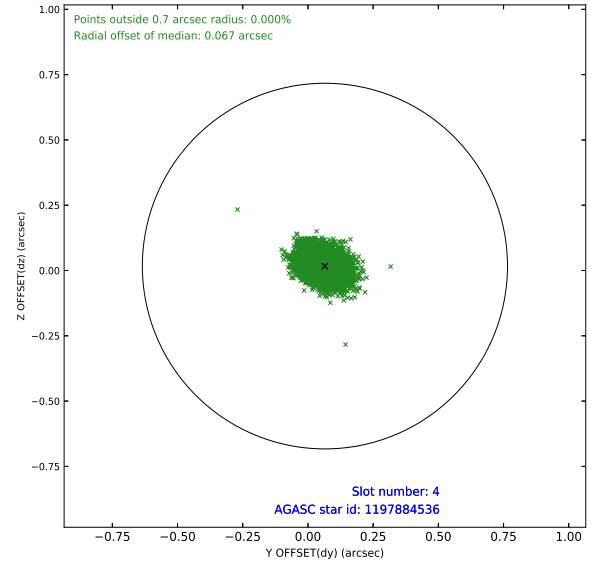
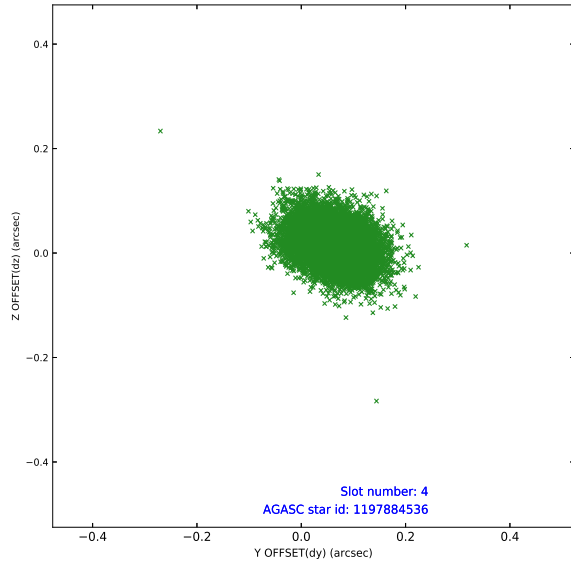
### 2.4.1 Slot 3



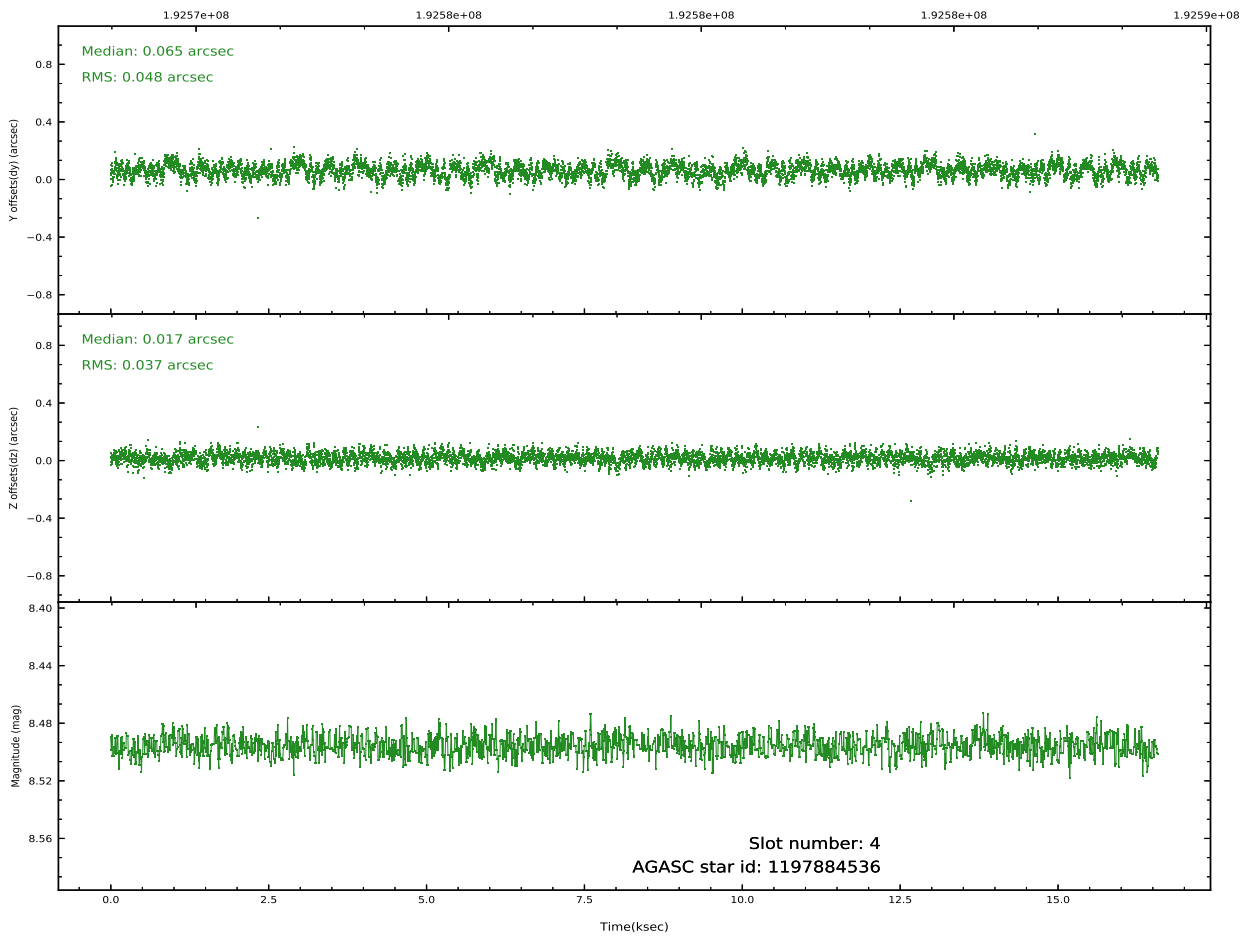
Time (s)



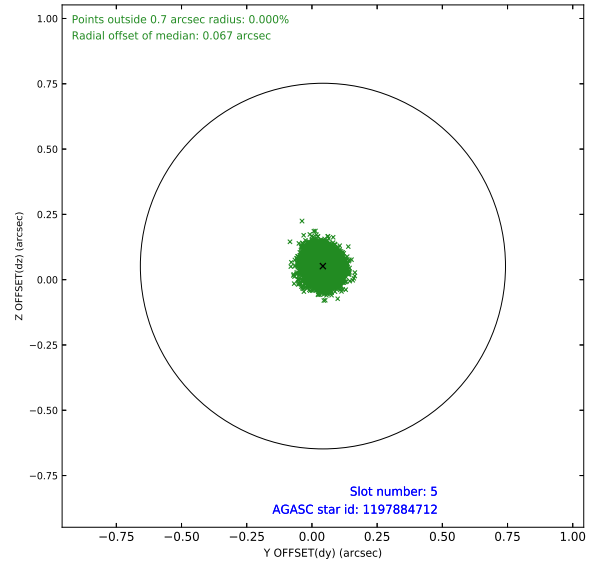
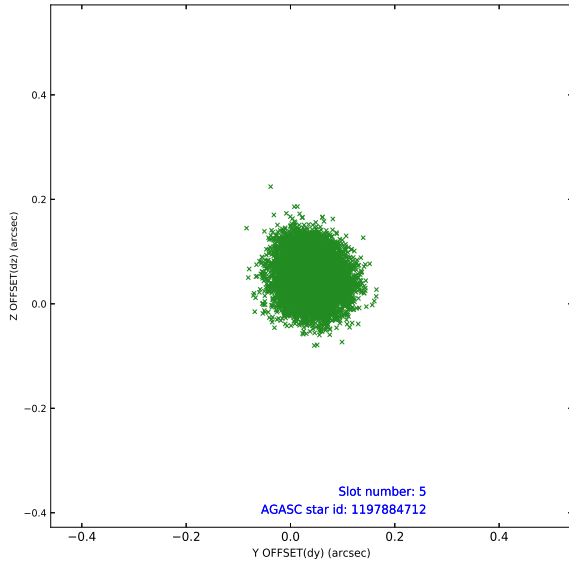
## 2.4.2 Slot 4



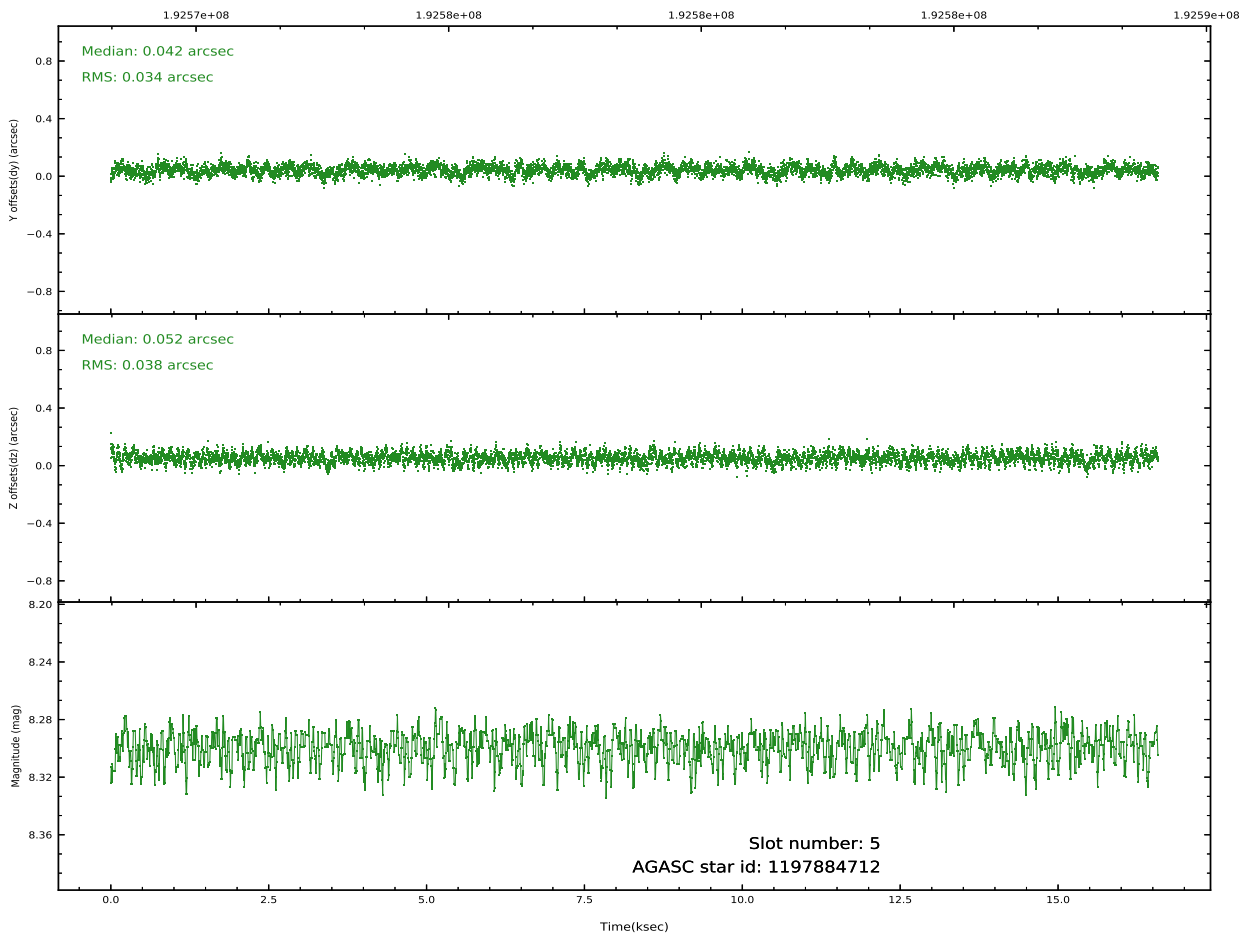
Time (s)



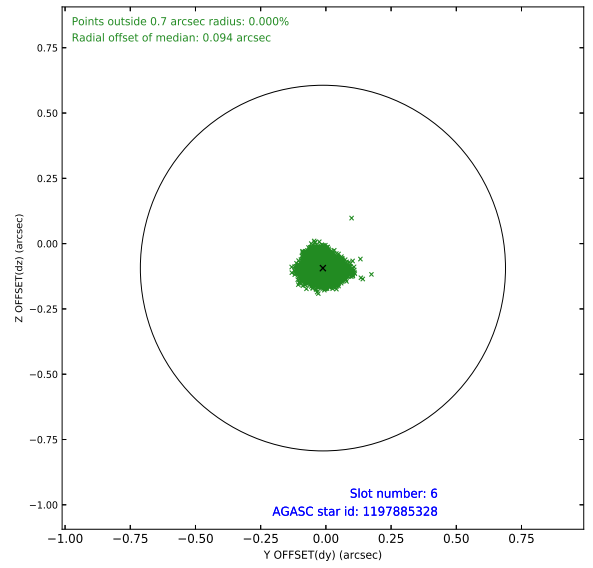
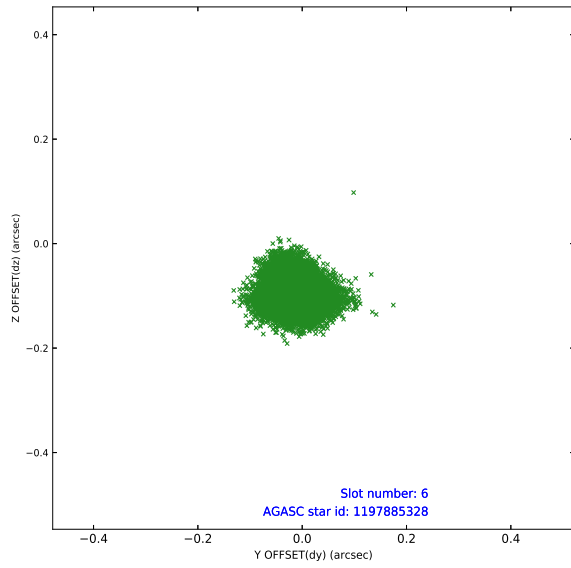
### 2.4.3 Slot 5



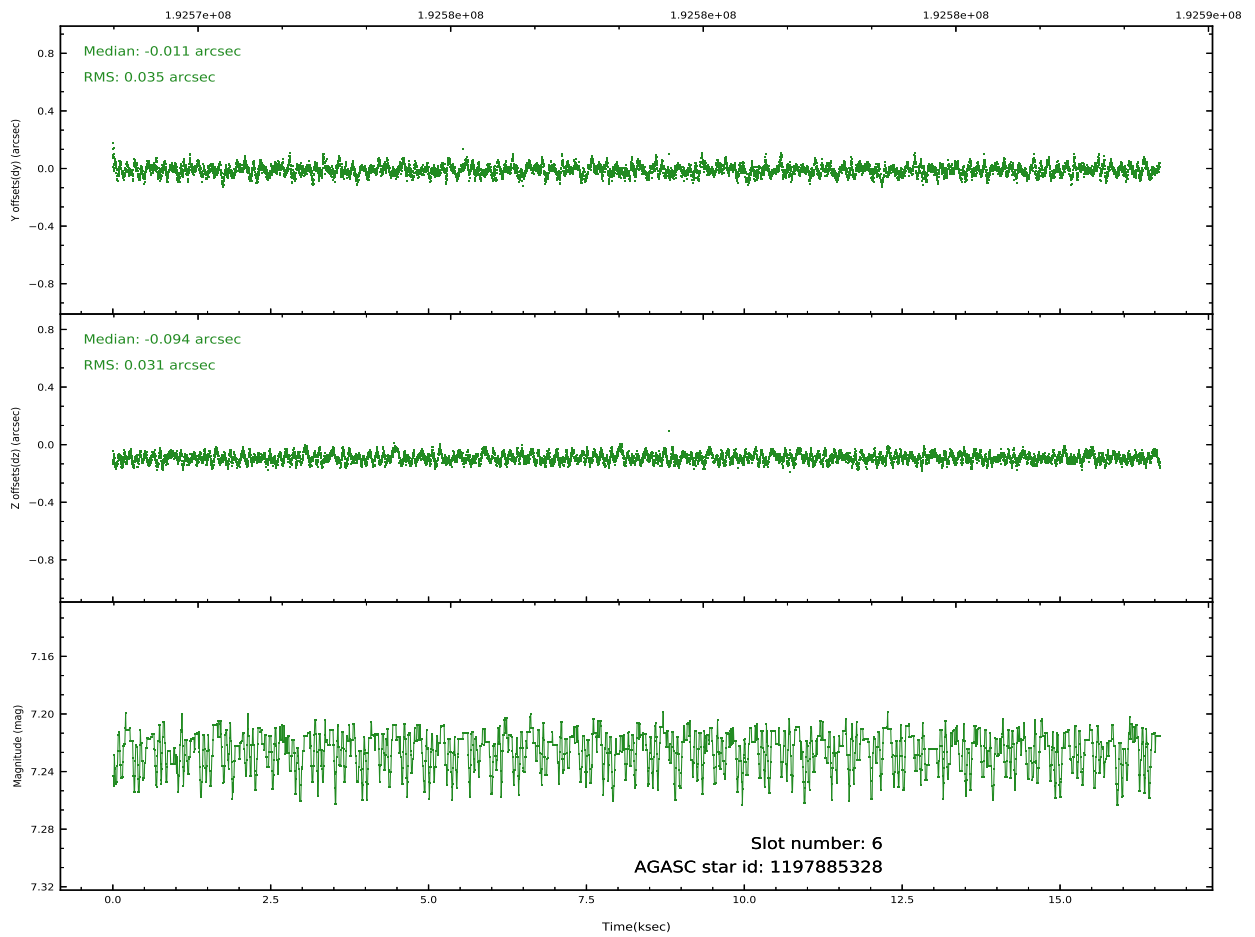
Time (s)



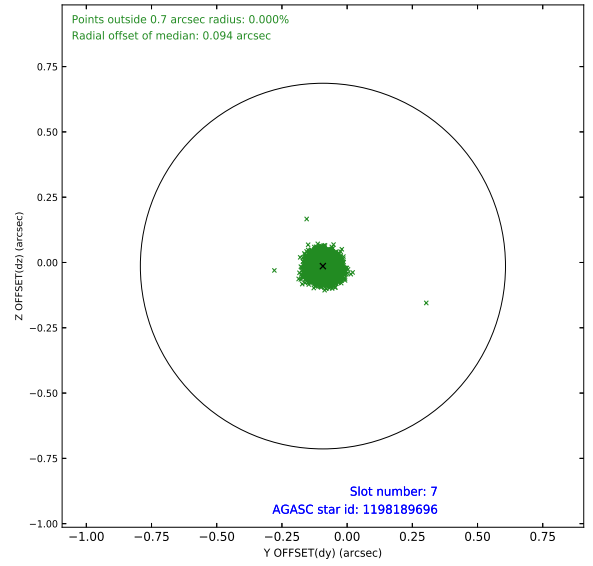
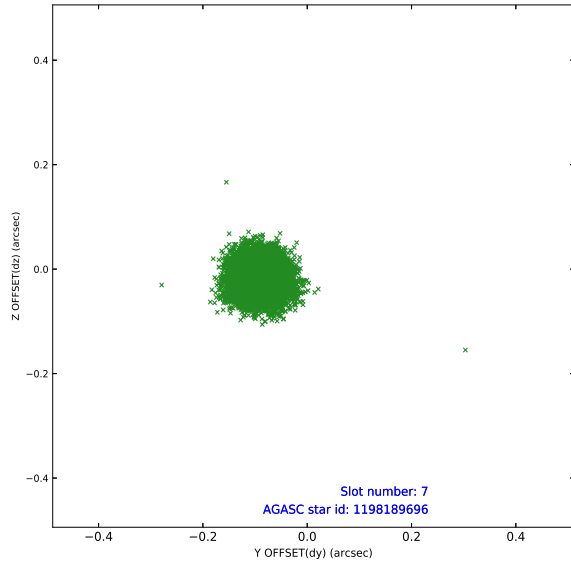
## 2.4.4 Slot 6



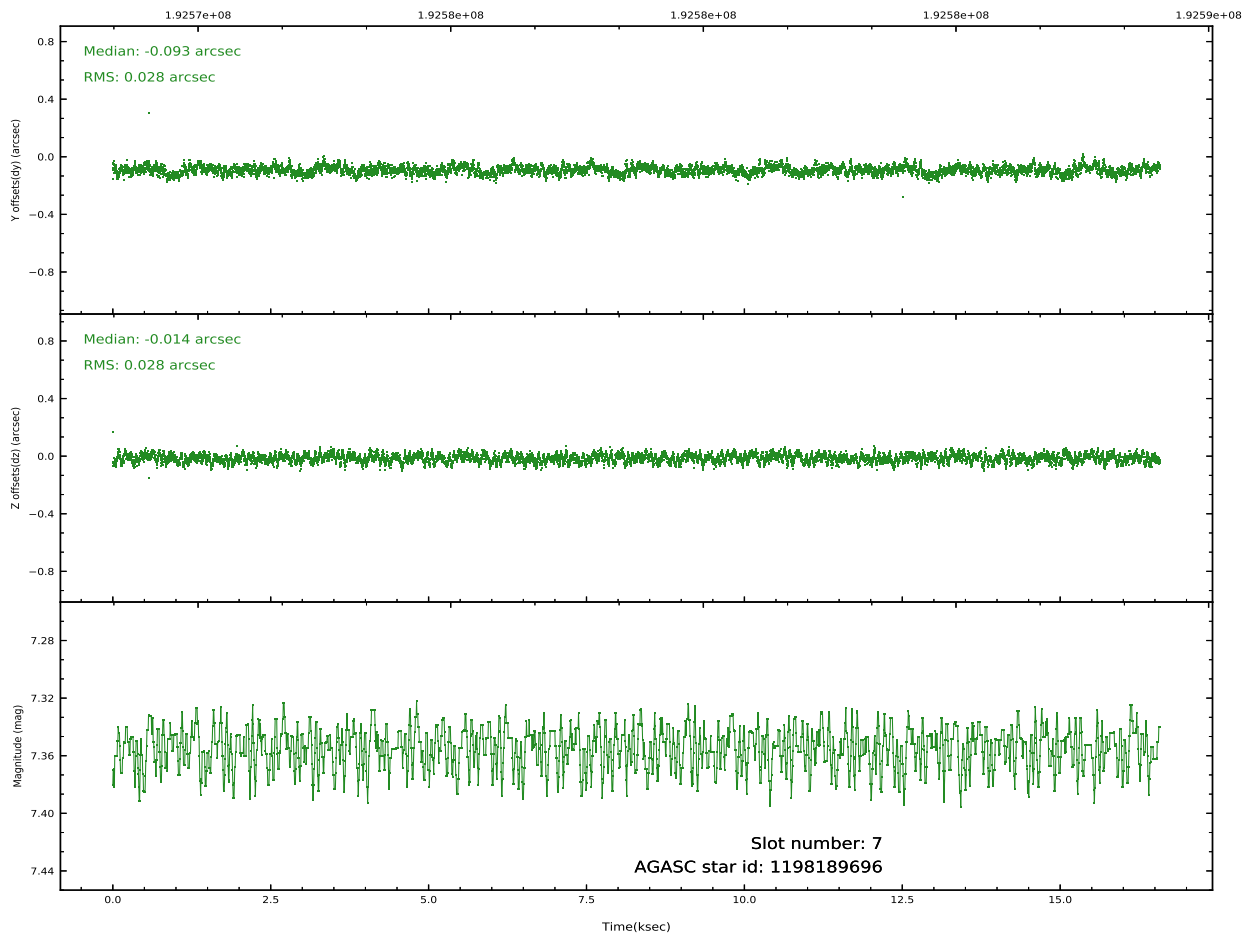
Time (s)



## 2.4.5 Slot 7

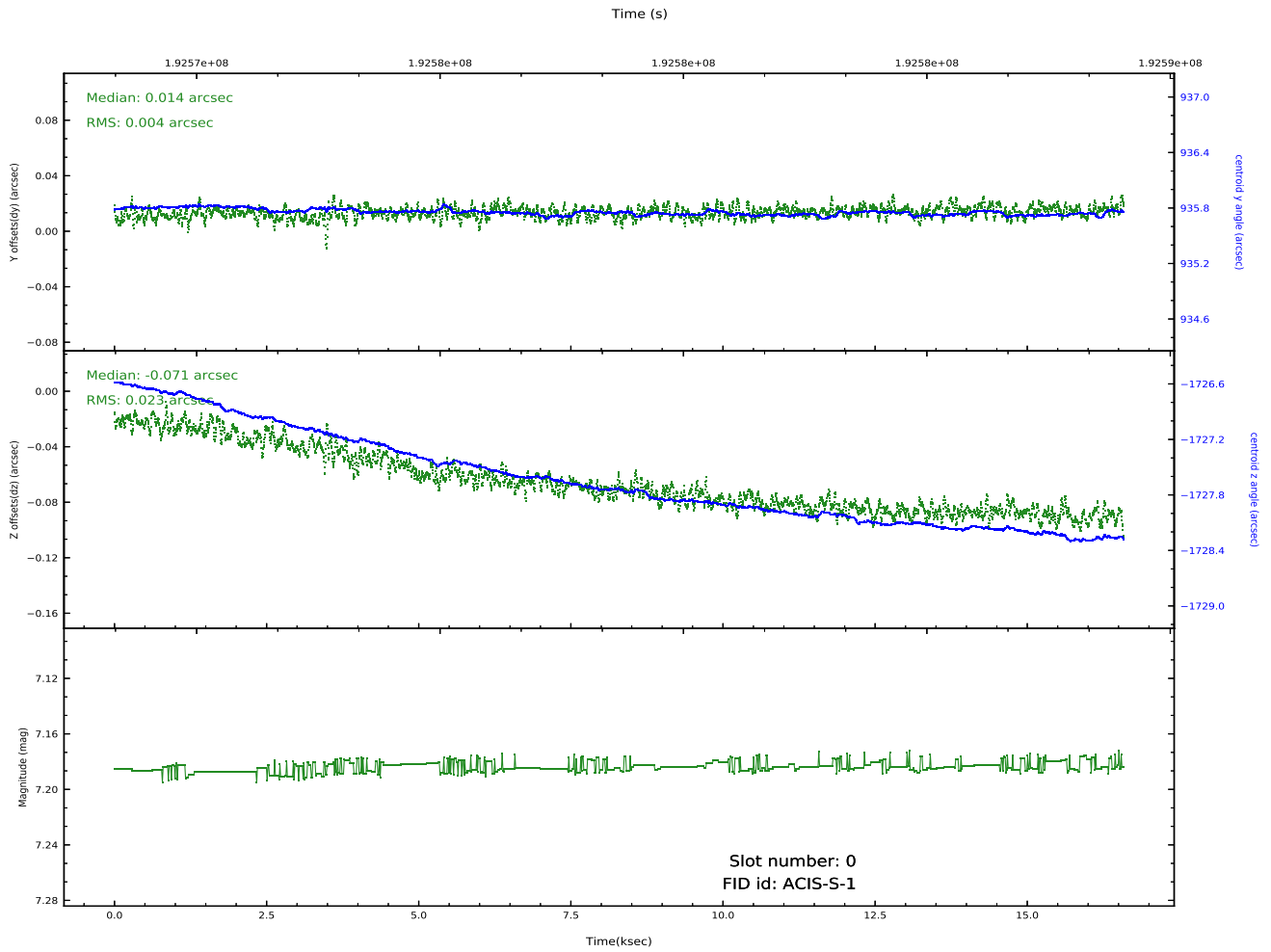
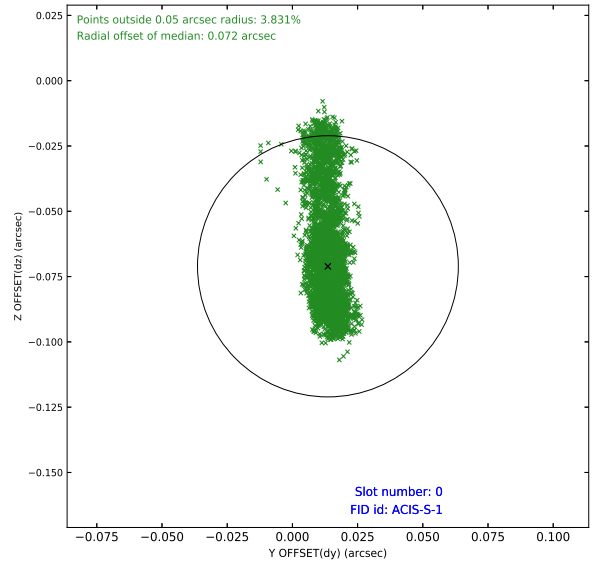
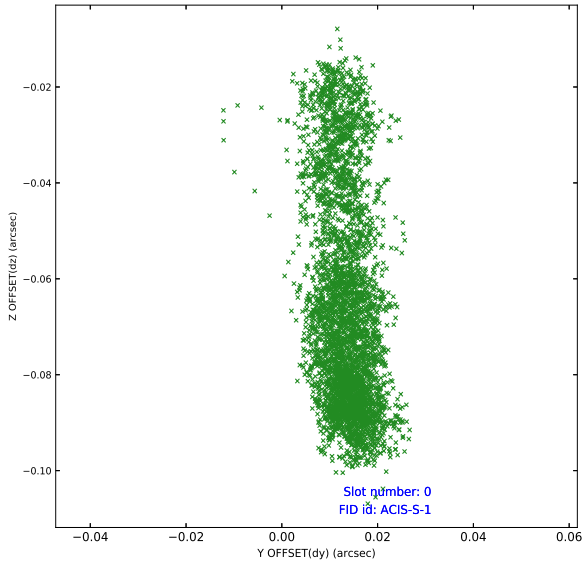


Time (s)

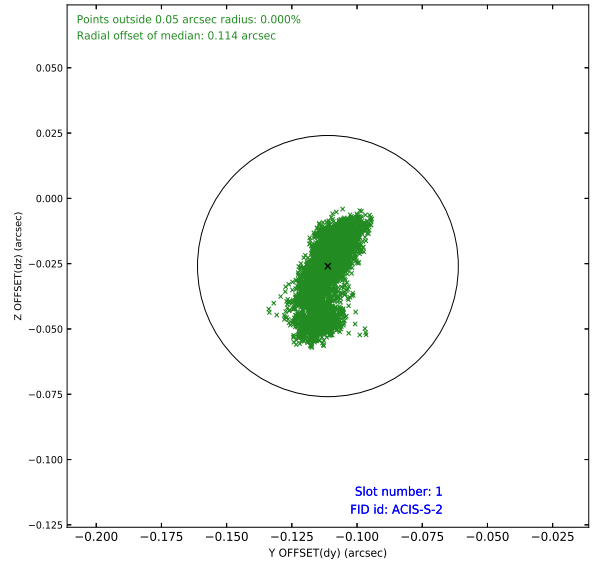
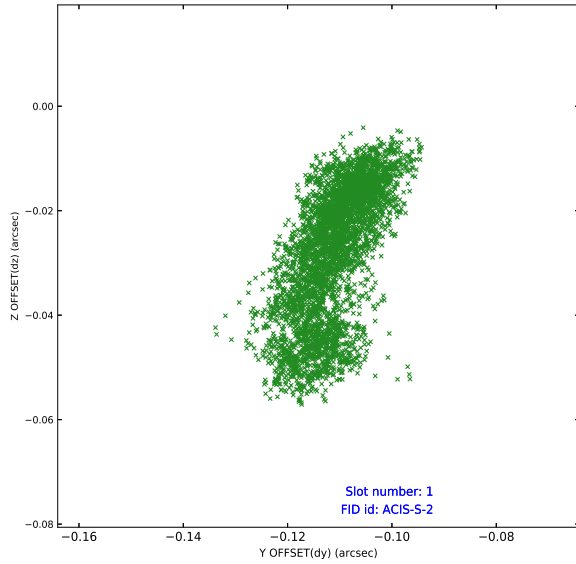


## 2.5 FID Slots

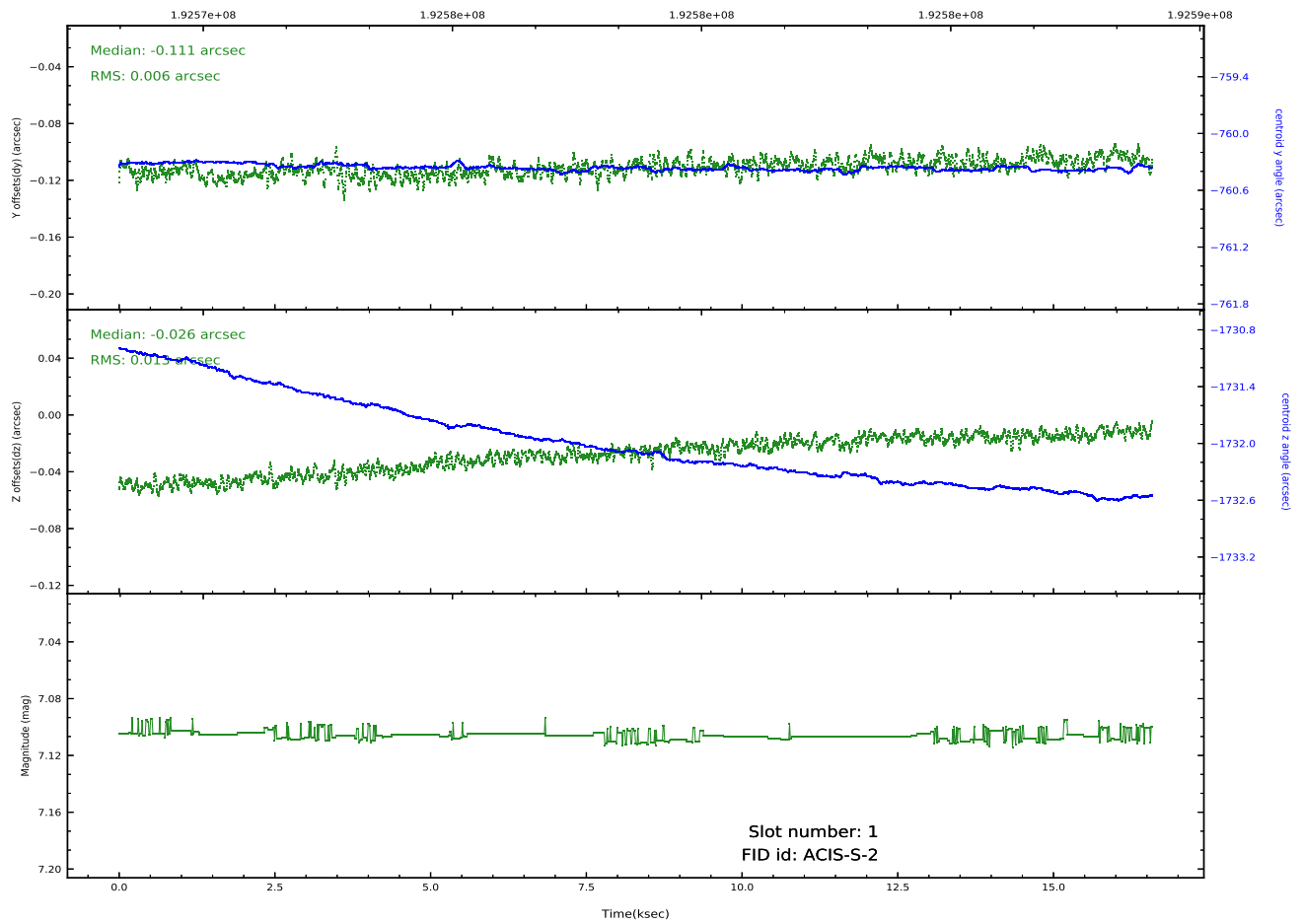
### 2.5.1 Slot 0



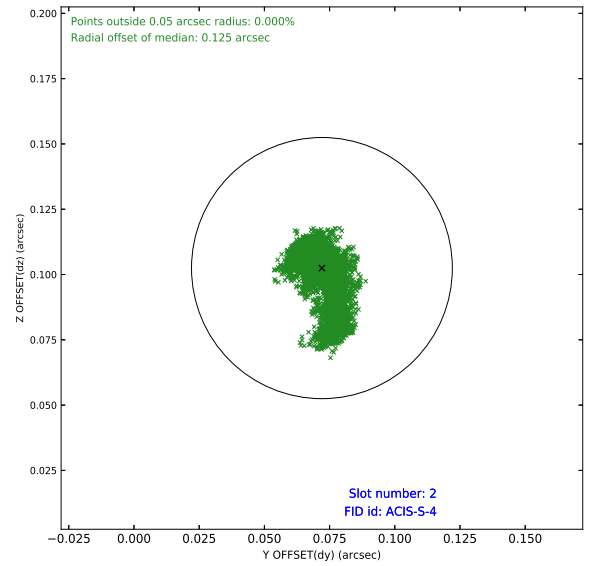
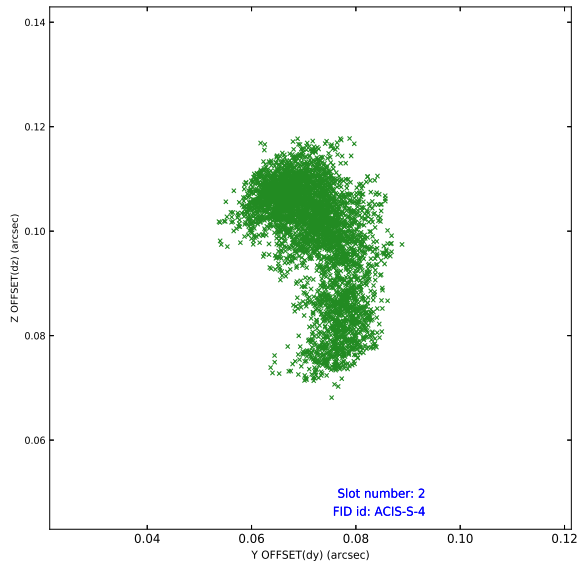
## 2.5.2 Slot 1



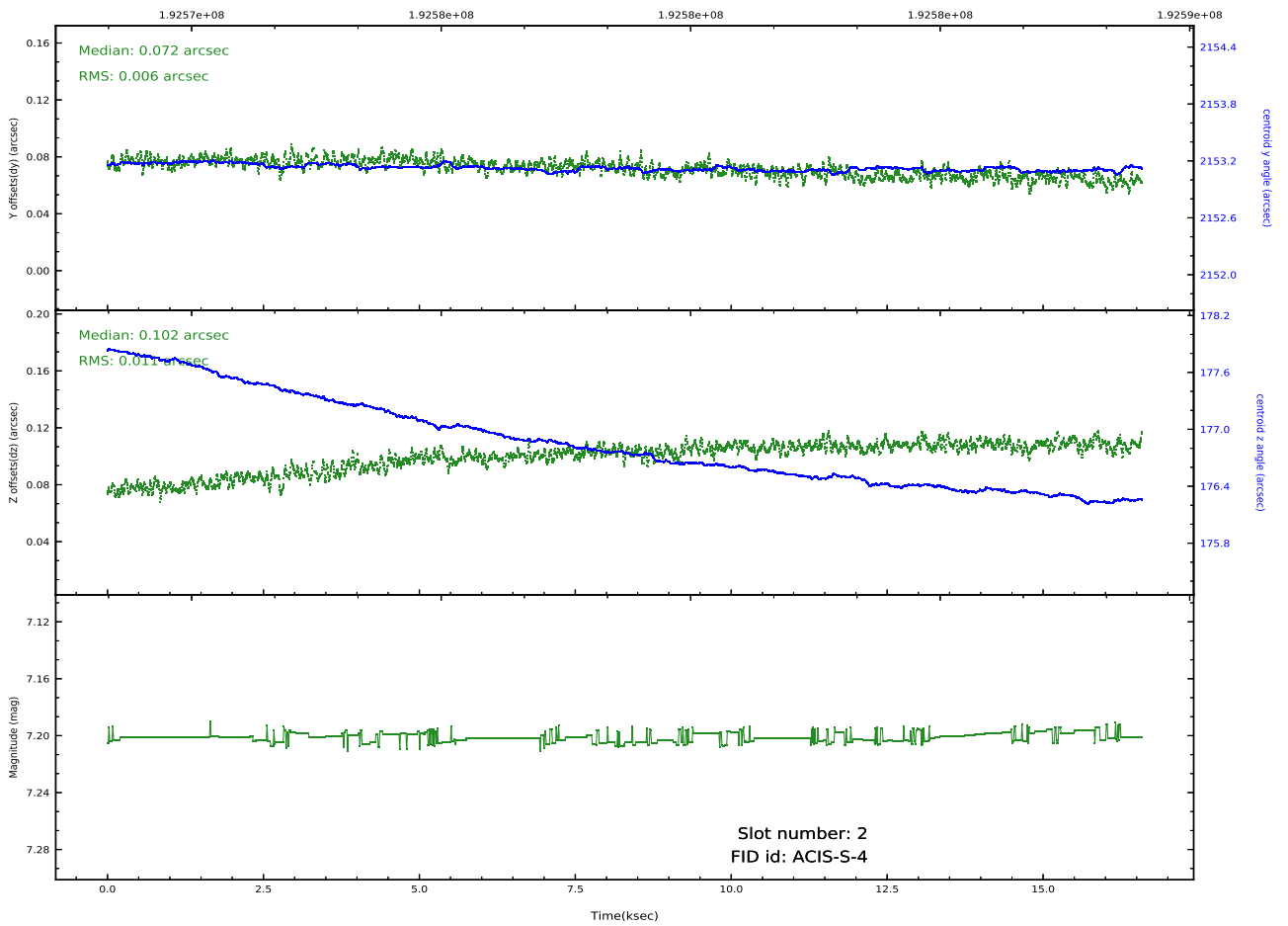
Time (s)



### 2.5.3 Slot 2



Time (s)



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.583

## A.2 Comments